A Complete Bibliography of Publications in *Ecological Modelling* (2010–2019)

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Title word cross-reference

1 [AHNK13, MBUM12]. **$129.95** [Jör11a]. **$19.99** [Jør14a]. 2 [AHNK13, Con11, Con12, VLF+17]. **$29.99** [Jør14a]. 3 [BVGR+17, BCB+11, CPS+14, DBP16, IFC14, KPS17, LMT13, MSGG14, MRB14, MBUM12, MJGC13, NGR+11, PMM11, SRHL11, SMH16]. **$3.99** [Jør14a]. 3/4 [SIS+14]. **$61.42** [Jør14b]. + [HBA16a]. ^{1} [Mob18]. ^{13} [EFM+10, Vav12, VRL18]. ^{14} [HKlL14, KHW+16]. ^{15} [TGM+21]. ^{N}+ [HAA+21]. $_{2}$ [CGY11, CSH11, CSH13, CN13, CR11, CR12b, FCG+19, FCZ13, GKW+13, HMS+11, Hol13, KK12b, KMM+13, LKLK15, LYJ+15, LHP16, LBdA+19, LSM19, MKF+11, mNkGyT+17, PJ16, PD15, QlSeZ+10, RML+15, SLSS15, TIC+14, VRL18, WRM+11, ZJP+11]. $_{3}$ [MKTO19]. $_{4}$ [DAW+10, GKW+13, HMS+11, Vav12, VRL18]. $_{\text{wetland}}$ [LHZS10]. a [KHJ+19, LGY10, MMM+16, WQD+13, ZZT13]. α [Sci11a]. β [Sci11a]. C [LKKK+14, SVL12, WR18]. : [JS12, LWGH13]. Δ [HKlL14, EFM+10, Vav12]. G [MSG+13]. K [ZJB19]. λ_1 [Log13b]. M_b [NP15]. N [GHS+16a, LKKK+14, OTA16, SVL12, WR18, ZML+12]. $R*$ [JD10]. R^2 [GO15a]. $\sim$ [BCT15]. θ [MCA18]. $\times$ [MWD+15].

-aggregated [ZJB19]. **-based** [GO15a]. **-concentration** [CN13]. **-D** [Con12, IFC14, MBUM12, VLF+17, Con11, MBUM12]. **-exponent** [SIS+14]. **-logistic** [MCA18].

/H [KMM+13].

0D [MG18, MHG18].

1 [Ano14u, Ano15q, Ano15p, Ano19a, Ano19b, Ano19c, Ano19-36, Ano19-33, Ano19-39, Ano19-38, Ano19-46, Ano19-41, Ano19-44, Ano19d, BLD+10a, DFM12a]. **1-144** [Ano15p]. **1-246** [Ano15q]. **1-60** [Ano14u]. **10** [Ano12-37, Ano12-28, Ano12-30, Ano12y, Ano12z, Ano12x, Ano12-31, Ano12-32, Ano12-35, Ano13-39, Ano13-32, Ano13-33, Ano13-29, Ano13y, Ano13-35, Ano13-37, Ano13x, Ano13-27, Ano13-30, Ano14u, Ano14e, Ano14r, Ano14j, Ano14m, Ano14q, Ano14b, Ano14d, Ano14i, Ano14g, Ano15q, Ano15a, Ano15b, Ano15l, Ano15m, Ano15f, Ano15c, Ano15h, Ano15o, Ano16t, Ano16a, Ano16q, Ano16e, Ano16d, Ano16f, Ano16c, Ano16l, Ano16n, Ano16g, Ano17-38, Ano17-35, Ano17x, Ano17-29, Ano17z, Ano17u, Ano17-39, Ano17y, Ano17-32, Ano17-31, Ano17-34, Ano18-41, Ano18-46, Ano18-34, Ano18y, Ano18-42, Ano18-39, Ano18-44, Ano18-27, Ano18-36, Ano18-31, Ano18-30, Ano18-29, Ano19-42, Ano21b]. **10-year** [GZK+11]. **144** [Ano15p]. **15** [Ano19e, Ano19f, Ano19g, Ano19h]. **156** [Ano12-37]. **180** [Och10]. **1950s** [KHL+16]. **1980s** [KHL+16].

2 [BVGR+17, BlMG+11, DFM12b, MAO19]. **2-methylisoborneol** [HD14, HD16]. **2000s** [KHL+16]. **2009** [LYP+11, LPA+11]. **2011** [Ano11p, Ano11q]. **2012** [Ano12-37, Ano12-28, Ano12-29, Ano12-30, Ano12-36, Ano12y, Ano12-33, Ano12-34, Ano12v, Ano12z, Ano12x, Ano12-31, Ano12u, Ano12-32, Ano12-35, Ano12-27]. **2013** [Ano13-39, Ano13-38, Ano13-32, Ano13-36, Ano13-33, Ano13-31, Ano13-29, Ano13y, Ano13-34, Ano13-35, Ano13-40, Ano13w, Ano13-37, Ano13v, Ano13x, Ano13-27, Ano13z, Ano13-30, Ano13-28]. **2014** [Ano14u, Ano14e, Ano14c, Ano14r, Ano14o, Ano14f, Ano14j, Ano14s, Ano14k, Ano14m, Ano14p, Ano14q, Ano14n, Ano14b, Ano14t, Ano14d, Ano14i, Ano14l, Ano14g, Ano14h]. **2015** [Ano15q, Ano15p, Ano15a, Ano15j, Ano15b, Ano15d, Ano15l, Ano15m, Ano15k, Ano15f, Ano15e, Ano15c, Ano15n, Ano15g, Ano15h, Ano15o, Ano15i, Ano21b]. **2016** [Ano16t, Ano16a, Ano16u, Ano16q, Ano16m, Ano16e, Ano16h, Ano16o, Ano16d, Ano16r, Ano16b, Ano16f, Ano16p, Ano16c, Ano16i, Ano16l, Ano16k, Ano16n, Ano16j, Ano16g, Ano16s]. **2017** [Ano17-38, Ano17r, Ano17-35, Ano17-36, Ano17x, Ano17-37, Ano17-29, Ano17s, Ano17z, Ano17-40, Ano17-30, Ano17u, Ano17-28, Ano17-39, Ano17w, Ano17y, Ano17-27, Ano17-32, Ano17v, Ano17-31, Ano17t, Ano17-34, Ano17-33]. **2018** [Ano18-41, Ano18-38, Ano18-46, Ano18-47, Ano18-34, Ano18-48, Ano18y, Ano18-40, Ano18-42, Ano18-33, Ano18-39, Ano18-37, Ano18-44, Ano18-35,

Ano18-27, Ano18-43, Ano18-36, Ano18-45, Ano18-31, Ano18-28, Ano18-30, Ano18z, Ano18-29, Ano18-32]. **2019** [Ano19a, Ano19e, Ano19b, Ano19f, Ano19c, Ano19g, Ano19-36, Ano19-47, Ano19-33, Ano19-37, Ano19-39, Ano19-45, Ano19-42, Ano19-40, Ano19-38, Ano19-34, Ano19-46, Ano19-35, Ano19-41, Ano19-48, Ano19-44, Ano19-43, Ano19d, Ano19h]. **20th** [Fel12, NMS+14, WTC+18]. **21st** [Fel12]. **220** [BRV11, YTT+11]. **221** [Bar11, Lin16, Pat10, WLS+11]. **222** [BMF+11a, Con12, CR12b, ERGW+11a, GORJ12, WGA+12]. **225** [ABR12b]. **227** [Ano12a]. **24** [Ano12-29, Ano12-33, Ano12-34, Ano12v, Ano12u, Ano12-27, Ano13-38, Ano13-31, Ano13-34, Ano13-40, Ano13w, Ano13v, Ano13z, Ano13-28, Ano14c, Ano14o, Ano14f, Ano14s, Ano14k, Ano14p, Ano14n, Ano14t, Ano14l, Ano14h, Ano15p, Ano15j, Ano15d, Ano15k, Ano15e, Ano15n, Ano15g, Ano15i, Ano16u, Ano16m, Ano16h, Ano16o, Ano16r, Ano16b, Ano16p, Ano16i, Ano16k, Ano16j, Ano16s, Ano17r, Ano17-36, Ano17-37, Ano17s, Ano17-40, Ano17-30, Ano17-28, Ano17w, Ano17-27, Ano17v, Ano17t, Ano17-33, Ano18-38, Ano18-47, Ano18-48, Ano18-40, Ano18-33, Ano18-37, Ano18-35, Ano18-43, Ano18-45, Ano18-28, Ano18z, Ano18-32, Ano19-47, Ano19-37, Ano19-45, Ano19-40, Ano19-34, Ano19-35, Ano19-48, Ano19-43]. **246** [Ano15q]. **247** [KMS+13]. **250** [HLLO13a]. **258** [MJL+14]. **273** [MSCH14a]. **295** [Jør15a]. **297** [CCW+15a, EH19, Str15a]. **299** [mLcLJ16].

3 [FT16, GS19c, JNC+11]. **3-PG** [FT16, GS19c]. **315** [ABAG16]. **345** [ZLJM17b]. **361** [KS17a]. **377** [LSJ+19]. **387** [HM19]. **393** [SMT19b]. **3PG** [ABK+16].

4 [BVGR+17]. **4-D** [BVGR+17]. **408** [DYMYGO19a]. **4th** [FKDG14].

50-year [NB11].

60 [Ano14u].

70th [GB16b].

9 [Kat11]. **978** [Kat11]. **978-1-59947-154-9** [Kat11].

= [BKP10]. **=Bufo** [Bar11].

A. [HH12]. **A1** [Ano12-37, Ano14u, Ano15q, Ano15p]. **A1-A2** [Ano15q, Ano15p]. **A1-A4** [Ano14u]. **A2** [Ano12-37, Ano15q, Ano15p]. **A4** [Ano14u]. **ABA** [HSD+15]. **abalone** [LJ15b, LJWN14]. **abatement** [BGPJ10]. **Abies** [KKP+17, JL18]. **abiotic** [GSSM13, MHL+19, PVB16, RDD+18, SLB14]. **able** [DAF+11]. **ABM** [KvTL+18]. **Abolition** [LJ10]. **Aborigines** [GWR11]. **above**

[SBC+11, VHM+17, VALC12, XGH+17]. **above-** [SBC+11]. **above-ground** [VHM+17, VALC12, XGH+17]. **aboveground** [CLWH15, SLLW15]. **abrasion** [LSL10]. **Abrupt** [PMTKC17, JDZC14]. **absence** [CMV+16, IBH+15, LPT+18, MMPG16, PÓF+18, SHS11, UG12]. **absoluta** [RSCS19]. **absolute** [NU11, PC15]. **abundance** [AGQP+14, ATCJ+19, AWSS14, BCTL16, BDG+14, BV15, BAJ+11, CTB+12, DOB+15, FTK+14, dSGGBW12, HCP10, HLLP+10, JSB+14, KKH+17, KCP+15, MF12, PWGS+17, PLL+19, RLHD11, RH17, SW19, SLB+18, TVI+13, WJS+18, ZZ17, ZYXT18, vPTOW18]. **abundances** [YAGMM+14]. **Acacia** [KR14]. **Academic** [Jør14b]. **Acanthocybium** [MROGVR12]. **Acari** [WGT12, dOMZ13]. **Acartia** [CEC10]. **Accelerated** [ZW12, TB11, TB12a]. **acceleration** [DLL+19]. **accessibility** [FN15]. **accessible** [BBJV+11]. **accession** [LCBNP19]. **according** [CCSF11, FML+17]. **account** [BPD+19, vVBHZ11]. **Accounting** [ADF+17, BLW+17, CS17, IT17, LCMG18, ST13, TB12b, ZBSF17, ABB+14, BFPR16, BPT+19, BCT15, BHPF14, DLD+11, EMH10, FBU14, FBDR17, FLA19, GRRU15, KØ13, LDJZC15, LSJ+18, LSJ+19, LLTQ14, LLTQ15, LG17, PBO19, PMH17, PME+16, SWC13, Til14, Til21, VPB+17, WO14, Sci11a]. **accounts** [LFH+15, VLZ+19]. **accumulation** [GPK+13, HD14, HD16, LBdA+19, NBD+13, Vav10]. **Accuracy** [BTPG10, DHL+12, Jör11a, KCP+15, DPLC13, For18a, LLKY18, MdMS+19, MLG+18b, PC17, PRH17, RFZB12, Slo11, VHM+17, vVBHZ11, vVHZHvD13]. **accurate** [Wol11]. **accurately** [MBHW12]. **acetate** [VRC17]. **achieve** [Bus17, LJR14]. **achieved** [PTML14]. **achievement** [Bin17]. **Achieving** [BA17]. **Acid** [ZF11, JLN10, NP15, SAAD16]. **acidic** [CL10]. **acidification** [FLH17, HKM+18, HOŠ+12, PPDF14, RCST11, THC18]. **Acipenser** [HMP+19b]. **acknowledging** [PDBP11]. **acoustic** [CLD+17, FBH+14, FYR+18, Md18]. **acquisition** [KP10, Lee14]. **acreages** [YDD+13]. **Acropora** [NGRDTHRL19, RMvW13]. **across** [AHNK13, BKP10, Bar11, CBB19, CK12, DDM+17, DPPI14, DS12, DFD11, EZ14, ENC+15, Fai10, FMA+12, For18b, GE17, HV15, HBA16b, KTV+15, KDK+10, LLQ+15, LXS+16, MML+11, MSB+17, MJLC14, OTA16, PMTKC17, RWFD13, SVD+13, SBC+11, SFB+15, TLL+15, WBC+12, WLY+15, ZZB+18]. **Acting** [Gia14]. **action** [KK15a]. **actions** [SM11]. **active** [CLL14, DCMK11, EZ14, dMHGA10]. **Activities** [PNHL14, AYASR+17, BHPF14, DYU+12, GHS+16a]. **activity** [CKS+17, CSS+17, FBA+11, HFMM+12, KCB+17, LBE+18, TTL+18]. **actor** [GBL+13]. **actual** [VLZ+19, VLF+17]. **acute** [FPO18]. **ad** [Pér18]. **ad-hoc** [Pér18]. **adaptability** [ACDC17]. **adaptable** [CF17]. **Adaptation** [CZR+14, MNK+21, Ana17, CDL+11, DZS12, FS14b, HHK19, RVL+18, SBRD10, UDP17, Wal16]. **adaptations** [EAJG16, ZW11]. **adapted** [GDW12]. **Adapting** [BFM11, CCL+13, WhFxGZ16]. **Adaptive** [DPR10, OJM+12, POB18, URJ10, WEB11, ANMJ12, BFM11, CRUF13, CH15, GVGC16, GLA11, HS13a, LPT+18, Pra12, RFV+12, RPM13, SAT+15,

WYHC15, Wil12, **?**]. **adaptively** [KK13]. **add** [AFC12]. **added** [RRBI14, XHC+15]. **addiction** [RMGU11]. **Adding** [Ban11, Lin10, Lin16, RHS+16, FHAG12]. **addition** [TIC+14]. **Additional** [RDD+18, TF13]. **additive** [MROGVR12]. **additivity** [WC19]. **address** [SGB10, VASH+16]. **Addressing** [SG11b, KNU+15]. **Adélie** [PLS+16]. **adequacy** [AAFH15]. **adhesion** [CWLC13]. **adjacencies** [FT10]. **adjacent** [FS14a, MRG13b]. **Adjunctive** [MG16]. **adjuncts** [TV15]. **Adjusting** [CMSR19, JSW+13, MH11, LJR14]. **adjustment** [vDHH+13]. **adjustments** [MCR+15]. **administrative** [TCGC16]. **admixed** [CHG+15]. **admixing** [RGH+13]. **Adriatic** [CQS15, RPP+15, TPL+15, VAK+11]. **adult** [BS10c, LCD+16, NWAR11, SF10, TGB+17]. **advanced** [Nak17, NP18, ZDG+13]. **Advances** [BH10, THBF+17, SBC13]. **Advantages** [LLB+19]. **adverse** [CJM+12]. **advice** [CMCASS12]. **advisories** [WGD+17]. **Aedes** [AOD+13, EPA+10a, EPA+10b, MD16, SSC15, VSC18, ZYXT18]. **aegypti** [AOD+13, MD16, SSC15, VSC18]. **aeration** [YWA+17]. **aerial** [FDP+10]. **aerobic** [BdCS11]. **aeroecology** [WGE+19]. **aeruginosa** [MUP+13, MvdWU+16]. **AEZ** [TZS+14]. **affect** [CHG+15, DPvBvA11, DKJH13, GVV17, JDZC14, LHW+15, LS13, MMRS+19, RHW17, SPWR17, Str15a, Str15b, ZSSR18]. **affected** [CVPH+14, CWMC+12, NP15, NPH+17, vSGR16]. **Affecting** [WYPF15, AFC11, HKlL14, MSCH14a, MSCH14b, WZL+16]. **affective** [AA12]. **affects** [CTC+18, DCCS17, GdSHA10, LLL19, MF12, MCA18, PBFS14, SK10]. **affinis** [DJMBD+13]. **Africa** [KCF18, BCB+11, DVL11, HBSF16, JMdW+10, KCF17, OTA16, SS16, WCS+14, WSW+16]. **African** [BSFR17, BTS19, BMMC21, BBC+19, KMRW16, RAF17, SJGB16, SWS16, WCS+14, WSW+16]. **africana** [MMS12]. **after** [BHC+15, GDT+14, Gat18, KKR19, LLL+10, PDD+18, RZF+13, SS11, TVF+10, VASH+16]. **against** [For18b, LBR+17, MLK17, RWP11, SM10, WYHC15]. **age** [AG15, BNC+18, dÁGP14, CAL13, CD15, Dil10, FNR11, GHST19, GS19a, HKlL14, IKL14, JB11, JDZC14, KHW+16, Lem16, MM19, MPK18, MH11, Oga17, Oga18, TKP14, TM18, VHDM17, WAGM17, ZBMBDU+17]. **age-related** [Oga17, Oga18]. **age-specific** [Dil10, GHST19, TM18]. **age-structured** [BNC+18, dÁGP14, GS19a, Lem16, MM19, TKP14, WAGM17]. **Aged** [Jen12]. **Agent** [ABS17, BFA11, CLA+12, KvTL+18, An12, AD16, AD18, ACSR+13, BHD17, BMMC21, BTB17, BPR+11, BRM+14, BFNH14, BSCG10, CGLA10, CVPH+14, CLBG15, CF17, CHvdW+10, CLT+11, CCG15, DVL11, FS18, GH13, GLC+18, GPZB18, GLS10b, GJB+11, HM18a, HM19, HZSH17, IN16, JX15, JHT+14, KH15, KR14, LDM15b, LBGM19, MD16, MLG18a, MHS+17, MSMM11, MSM+17, MRES17, MJÁ+12, PRH17, PNHL14, RMP+18, Rin14, SGBD10, TB11, TB12a, TOQW11, THO10b, VLF+17, WFW+17, WNF+15, YRGH16, ZZJ+16, ZVS18, SMBGH+19].

Agent-based [ABS17, BFA11, CLA+12, An12, ACSR+13, BHD17, BTB17, BFNH14, BSCG10, CGLA10, CVPH+14, CLBG15, CF17, CLT+11, CCG15, FS18, GH13, GPZB18, GLS10b, GJB+11, HM18a, HM19, IN16, JHT+14, KH15, LDM15b, LBGM19, MD16, MLG18a, MHS+17, MSMM11, MSM+17, MRES17, MJÁ+12, PRH17, PNHL14, RMP+18, Rin14, SGBD10, TB11, TB12a, THO10b, WFW+17, WNF+15, YRGH16, ZVS18, SMBGH+19]. **agents** [HOKH18, KR14, PD12, RE10, WGTH16]. **agglomeration** [GWZ+15, HZZ+18, ZLZ17b]. **AggModel** [SDD+13]. **aggregate** [KCG18, MJY17]. **aggregated** [ZJB19]. **Aggregation** [Log17, PJ17, CNI11, FSB13, Gar17, NYH15, PMRGF10, SW11]. **aging** [GAV+11, KH15]. **agri** [BvHR+15, EST+19]. **agri-environment** [EST+19]. **agri-environmental** [BvHR+15]. **Agricultural** [Ano12a, LTL+19, AYASR+17, ADPS10, ABGB15, BPR+11, BRM+14, Che17, CB19, CTC+18, DK17, DPBK10, DSM+12, DNFG18, DSA+18, EGMW12, FCH+17, FB15, FYWA12, FDHL17, GZVU14, Hoa11, JAKJ10, KAC+12a, KAC+12b, LSGT13, LCPB+10, MC11, MDOJ14, NNP19, OQH+13, PHvB+18, PTML14, PvVC15, RW10, SvBH+14, SWZ+12, TTCH+14, UFK+10, WAS+16, WS15, WHNR19, YWH15, YDD+13, YDZ+21, vDSC+10]. **agriculture** [CL15b, GE17, Hoa11, LCBNP19, LDL12, LWL+17a, SJS+13]. **Agrilus** [KKR19]. **Agro** [TZS+14, Ana17, ABC+17, CLBD+11, GPM+16a, HFMM+12, LYJ+15, MFESBG+13, OTA16, QCLW18, SGB10, WLY+15, HGN+16, DAW+10]. **AGRO-BGC** [HGN+16, DAW+10]. **Agro-Ecological** [TZS+14, OTA16]. **agro-ecosystem** [LYJ+15]. **agro-ecosystems** [Ana17, CLBD+11, GPM+16a, SGB10, WLY+15]. **agro-environmental** [HFMM+12]. **agro-forests** [ABC+17]. **agro-landscapes** [MFESBG+13]. **agro-pastoral** [QCLW18]. **Agrodiversity** [SGB10]. **agroecosystem** [BHD17, DAA+12, DSK+11, HGN+16, MRTW18, RCC+11, RCG+13, RCGC17, SDT10, XSN+18, ZSKI17]. **AgroIBIS** [ZSKI17]. **AHC** [XSN+18]. **AHP** [GH13]. **AHP-TOPSIS** [GH13]. **aided** [AS11]. **Ailuropoda** [GFW+17]. **aimed** [ABC+17]. **air** [KBS+15, KPTC14]. **airborne** [CLLB12, KHS+19, MdMS+19, STSA10, SM10]. **al** [HBT+18, Och10, WSS+16, GVV+16, NP15]. **Alabama** [BPC+17]. **Alaska** [FHL+13, FAS+19]. **alba** [dÁGP14]. **albedo** [LSR13]. **albedos** [KLS+14]. **Albemarle** [JMB+11]. **Alberta** [HMPC11]. **albifrons** [JJKJ11]. **albopictus** [EPA+10a, EPA+10b, ZYXT18]. **Alburnus** [MMVAHMC16]. **albus** [DHC16]. **Alcon** [CWJ+13]. **Aleppo** [**?**]. **Alexander** [SGCB15]. **Alfacs** [GDDFT16]. **alga** [GPJL15]. **Algae** [SM13, BPN12, FCS13, GSJ+10, IKK+12, LHO+16, yLWhMhG11, PBP+15, Sin17, TVT12, YZG16, ZZZW15]. **Algal** [KLS17, BS18, CRO13, CBB19, CMLY19, DG11, DA19, GRB12, GDDFT16, JZG10, KSM+18, LAB+10, MWY+18, PSB+17, PLS+10, SELB10, SQWS19, TGM+21, WX11, XJY+16, YXZ+21, ZWRK13]. **algebra** [BMF+11a, BMF+11b, CT12, LLCR10, Pat12, Pat14b]. **Algebraic** [PBP+15]. **algorithm**

[BCL+14, CRO13, CN11, DAF+11, DVT+10, HSLC+19, HKVD16, QWJL19, RFV+12, SZSV13, SAT+15, SPR+18, UG12, VZF+11, YZPL16, ZAW+18]. **algorithmic** [RKL+15]. **algorithms** [CRB16, CGP12, GMC+19, LWY+11, MEC14, PSWW11, SG16, SMI+19]. **alien** [CMM+10, DPV+16, FTYI13, KR14, PGZ+19, SZV14]. **Aligning** [FN18]. **Allee** [BRF+11, CHZ18, dSCdA18, Lab11, MF16, MP13, SBCB13, SSS+11, VCE17, Ver10]. **Allee-like** [MP13]. **Allegheny** [FWRZ10]. **allelopathy** [GRB12]. **Allen** [HKW+18]. **alleviate** [DFW+18]. **alligator** [MSKS13]. **allocate** [Yan11]. **allocation** [ADF+17, BMP+19, CVV+13, DSA+18, GTC16, JBE+15, LHP16, LOLA13, PDBP11, WHB12, dWcWbZ15, ZFZ+14, ZZJ+16]. **allocations** [YM21]. **Allogamus** [PGS16]. **Allometric** [KP10, PVL+14, WK11, WUB15]. **allometry** [SW15]. **along** [CRA+11, DBG14b, DBG14a, FGPR10, GLRT16, HKL+11, LJCG15, MSG+13, MBW14, MKF+11, OBLJ13, TMC+16, WWC+18, WMK+13, XWC+11, ZLW+15]. **Alouatta** [WFDDR10]. **alpine** [BVC+18, CSS+19, DVCM+10, FMG+16, FBDZ12, KJVL+17, LLM+13, MSP+13, MSV12, SLZ+17, ZPNM13]. **Alps** [FCFT16, MBW14]. **Alta** [LDM15a]. **alter** [DWWS15, FAMD+12, MHL+19]. **alteration** [KHJ+19]. **altering** [PTML14, SM10]. **Alternanthera** [MSKS13]. **alternate** [HCS+10, PAT17, dAdSC15, Log19a]. **alternated** [AdMC+13]. **alternative** [AAFH15, BM11, BFJZ+11, BGD+15, DUASLB+12, DLL18, DAP18, GRYM11, GVV17, HMP19a, KAJØ19, KKI+14, Lem16, MDJ+11, MJL+13, MJL+14, McC16, PLHG14, RL15, RvKM10, RCP17, YWA+17, vLTdBP16]. **alterniflora** [CZCL18, TSP19, WJL+13]. **alters** [NA11]. **altimetry** [MCMT+16]. **altitude** [AKLB19, MSP+13]. **altitudinal** [DVCM+10]. **altivelis** [MSO10, FSN+15, MSO10]. **always** [XM13]. **AMAPstudio** [GdC14]. **Amazon** [CGY11, dSD14]. **Amazonas** [IGR+18, dSdCF10]. **Amazonian** [dSD18]. **ambient** [CGG+18, KKK+19]. **ambiguity** [SG16]. **Amboseli** [MNHW+13]. **amended** [OTA16, SFvB10]. **America** [BEPC15, CW11, GPA+13, HBA16b, LN11, LN16, SGM+14, SBC+11, TTL+18, VASL+15]. **American** [CR12b, BB18, CR11, DNFG18, HPW+12, LAR+16, LAD11, MRD+12, MTJF11b, PGZ+19, TCW11, Tho10a]. **americanus** [MSH+19]. **amino** [JLN10]. **Ammersee** [WV12]. **Ammonia** [LNB17, MTL+10]. **Ammonia-uptake** [LNB17]. **ammonium** [DWP13, MCH15, VRL14]. **among** [BCP16, DVF+19, GGZ14, KKI+14, LSH15, NYH15, PLB16, SDKE18, ZZA+18]. **amount** [Tie16]. **amphibian** [BKP10, Cha12, DA17, ZZA+18]. **amphidromous** [OOH+12]. **amphipod** [GCC+10]. **Amur** [LKG+17]. **anaerobic** [VRL18]. **ANAFORE** [DCMK11]. **analog** [ZZT13]. **analyse** [FLB+15, PHvB+18]. **analyses** [FM11, HAOS17, HB14, JAKJ10, KDHC+18, LM16, MCB14, OOFVBC16, PICR13, PPBD13, ROG+16, SM14, VPM+18]. **Analysing** [FT16, NMC+14, DPV+16, DGKSM13, JZ12, RPPW16, VSB13]. **Analysis** [AAW+15, APWT15, BS18, BB18, BFS11, CHvdW+10, DSK+11, DZW+11, HAA+21, LLW+15, LPV11, LLC11, MK13, Pat12, PSS16, RAR15, SNS+12,

TLL+17, TL10, VPS10, XGH+17, ZLF+11, ZLF+15, ZLZ17c, ZKSF17, AADA14, AYASR+17, Ano12s, Ano12t, ACC11, BB10, BKM+18, BS10a, BSMA18, BTPG10, BSZ+11, BMU10, CCS13, Cam15, CC12, COBF13, CZR+14, CMA+13, Cho13, CAMCK+12, CCC12, CMCASS12, CDT10, CCG15, CPS15, CBB+10, DAA+12, DLH+14, DBK+13, DVCM+10, DSM+12, DCZ+15, DFM12b, DBJ13, FH11, FT10, FE14b, Fre16, GPM+16a, GB16a, GZS+18, GDT+14, GLR+19, GGSP14, GZVU14, GU11, GGVB11, GAF+14, GB16c, GWZ+15, GYL+13, HGPF15, HCM+15, HYG14, HZZ+18, HCS+10, Hei11, HLK+12, HHvO+17, HL19, HhLY+19, HBA16a, HBL18, HBB15, IN16, JA15a, JLZ+18, JSdSdL+18, KB10, KM12a, KRE+18, KYvdPS14, KUK11, LKMCW14, LST15]. **analysis** [LTL15, LCM11, LB17, LCH12, LCBNP19, LkSXhX17, LWGH13, LCL+13, LVLS14, LHP16, LHL18, LWTZ18, LHB+18, LHH12, LKAL+13, LGY10, LYCZ13, LJLO11, MW12, MBBA17, MY11, MCW13, MWY+18, MGR+18, MHTC15, MXC13, MDJ+11, MJL+13, MJL+14, MTJF11b, MDL+10, MJC+11, MSCH14a, MSCH14b, MATS14, mNkGyT+17, NCMF10, NLM+19, Oga11, OCCF17, OKS+11, OCB+13, PC16, PMH17, PSBH16, PMCKH13, PLB16, PLS11, QFG+13, RHvdTS14, RBM+17, RAF17, RHZ+18, RPPW16, RMLTCQ+19, RPA12, SELB10, SSV+12, SZ14, SØB14, SLLW15, SBPZ12, SDSH15, SP10, SH18, TPL+15, TRD+15, Ten15b, Tho10a, TVF+10, TB19, VMP+19, WMF+13, WGA+13, WLY+15, WSSM15, WAM13, WPB14, WFSH15, WAGM17, WSC+19, WPZ+14, XYTS19, XZCL16, YDD+13, YZPL16, YWA+17, YM21, YZG16, YLW+11, YZLX14, ZRCNLI+15, ZYFL10, ZH11, ZYLY11, ZZY+13, ZLZS14, ZLF14, ZZF15, ZLFZ16, ZLZ17b, ZWF18]. **analysis** [ZBS14, ZTL+17, ZSF+12, ZSG+18, ZMH19, dSD18, SSF14]. **analyst** [MRC19]. **Analytic** [CBGK15, YLC13, ZLZS14]. **Analytical** [BP10, GS19a, MH13, PL10b, TT12, BC11, Md18, MV17, RHR+15b, RHS+15, RHD+16, RDV+17]. **analyze** [BFKS16, EBL+11, WLY+15]. **Analyzing** [ABD+18, GCW+16, XZSL17, ZZ17, LDL12, MVC+17, SAR11, vDHH+14]. **Anammox** [MFD+15]. **Anas** [KK12a]. **Anaxyrus** [BKP10, Bar11, MBG17]. **anchovy** [GPH17, JBCÑ11, KKH+17, OAPP12, PRL+13, PHP15, WJS+18, XCR+13]. **ancient** [CK12, LJAD17]. **ancient/recent** [LJAD17]. **ancillary** [HS11]. **Andes** [MRN12, SRV+12]. **anemotaxis** [GKKW10]. **angle** [Md18]. **Anglesey** [JWLS17]. **angling** [LCD+16]. **angular** [RAM10]. **angustifolium** [BHD17]. **Anhui** [YLW+11]. **animal** [ALKB10, ADF13, BEZ19, BM11, BBHP13, BCJ+12, EZ14, GMK+19, HA18, HB13, MGD+12, SJGB16, SHCR10, VR12, WR13a, XSL18]. **animals** [LB15, PC15, SFR+17, WBG+14, Wil11b, vdVJS16]. **animated** [DBP16]. **anisotropic** [HHW11, SBM+11]. **anisotropy** [dLB19]. **Ankole** [MGW+21]. **Annelid** [DLL+19]. **Annotated** [BPT+19]. **Announcement** [Ano11a, Ano11r, Ano11-37, Ano13a, Ano13b, Ano13u, Ano17b, Ano17c, Ano17d]. **announcements** [Fat15a]. **annual**

[BMD18, CDG15, GLT10, HLS+14, qHLlZ+16, HGN+16, LPS+10, MK12, SW19, SMKM19, XLL15, ZTJ+10, ZYXT18]. **anoxia** [SHM+17]. **anoxic** [GS10]. **Ansai** [ZZLZ14]. **answer** [ACSR+13]. **Answering** [DFH+14]. **ant** [FHG12, YZL12]. **antagonistic** [KMKL19]. **Antarctic** [CR12a, GJK+15, MRCW10, PLS+16, RMTM+16, VJR+16]. **Antarctica** [HLLP+10]. **anthill** [KOBK13]. **ANTHRO** [MCWG21]. **ANTHRO-BGC** [MCWG21]. **Anthropogenic** [YLW+11, ARV+16, GHP12, HSM+12, MJC+11, PVM12, PVM13, REB+16, RDD+18, RCS+19, SRV+12, SFL+19]. **anthropological** [SGBD10]. **anti** [BEBA19]. **anti-predator** [BEBA19]. **antibiotics** [MWM+16]. **Antikythera** [BC11]. **antillarum** [KK13]. **antimony** [SSW+18]. **Antipathes** [JCKG15]. **Antofagasta** [OBC+21]. **anuran** [VHDM17]. **Anzali** [SZSV12a, SZSV12b, SZSV13, SZV14]. **APECOSM** [DFM12a, DFM12b]. **APECOSM-E** [DFM12a, DFM12b]. **aphid** [BWH13, BGGL16, DFF17, GHS+10, GOSH+12, WPZ+14]. **aphids** [FDP+10, PZM13]. **APHIDSim** [PZM13]. **Apicomplexa** [LJB12]. **Apis** [AOW13, RBH13]. **Apodemus** [LSGT13]. **app** [MRC19]. **Appalachia** [DDBK15]. **Appalachian** [KMP14]. **apparent** [LMDG14]. **appearance** [GSJ+10, RH17]. **apple** [BCP15, DHC14, TWL11]. **Applicability** [FRM+19, LLKY18]. **applicable** [Ano17m, Ano17n, Ano17o, Ano17p, Ano17q]. **Application** [AB13, BFP+18, CCS13, CLCC11, CRQW18, DC10, DLCR13, DVT+10, DJMBD+13, Fai10, Flo18, GWHL15, GOSH+12, HLS+14, HFB+11, Hoa11, JBB+11, JMB+11, KSSA13, KDMPC10, LBSB+14, LLL+10, NS15, PDAL14, PGK+13, PFSF14, RHB14, RML+13, SZSV12a, SZSV13, TAT+16b, TLS+16, VZF+11, WZGH18, ZGJ10, ZCSL18, ZXD+13, ZDG+13, BAB+16, BLB+17, BKM+18, BRS+18, BGD+15, CGLA10, CGV+15, EEB+17, EEK+18, FDHL17, FSS+17, GBB13, GPM16b, GV11, GS19b, HYG14, HPO+15, HSVL12, Hu16, JGF14, JZG10, JHT+14, KHW+16, KDK+10, KP13, LWKS10, LkSXhX17, LSZC10, LZL+18, LJWN14, MGD+12, MH10, MCPB15, OWMK10, PHC10, RSC12, RSC13, RSCS19, SELB10, STD15, SW15, SXZ+15, TZS+14, WB14, WHH+18, WK17, WPZ+14, XSN+18, ZBMC14, BDG+14, FE14a, GSJ+10]. **Applications** [BH10, FKDG14, dSGGBW12, GCIB10, JBH+14, Mon13, ZW10, AD12, BB10, BLW+17, BCT15, CVG+15, CGP12, DP15, GB16c, LJBS12, LWL+17a, MRWN19, SBC13, SZVV10]. **applied** [BDL+14, BKN14, BPM+17, BMU10, CGAB17, DWNN10, FHL+13, FCA18, FSM19b, GGV13, MSHC13, MCB14, NPJ+17, PES19, Rau11, RMHE15]. **Applying** [CLL+15, FBH+14, HMP+19b, WZD+14, YJW15, ZLLZ13, BFR17, FBdP+16, LLM+13, ZLJM17b, ZLJM17a]. **approach** [ALG16, AWF10, AWL+13, ABR12a, ACDC17, Ano12s, AAFH15, ABC+17, ACSR+13, AVG14, BRR10, BBRJ15, BMN11, BC13, BG15, BLD10b, BBC+19, BCL+14, IHSM12, BRS+18, BvHR+15, BK13, BAT+15, BAJ+11, BHPF14, BPR+15, CF14, CLBG15, CHR+13, CVS+13, CS18, CLHH19, CSF11, CVG+15, CRTS15, Con14, CTP+17, CSFB17, DZS12, DBSA16, DAF+11, DSM+12, DMH17, DWP16, DSBS15, EFM+10, EKB18, F.11,

FKH+15, FCG+19, FT10, FCFT16, Fre16, FAT+15b, FHC15, GSQ17, GPH17, GBG+15, GGZ+16, GKF+14, GCTS15, GHS+16b, GDDFT16, GEB10, HCK18, HHC+13, HBS+16a, HJ17, HMS+11, HS13a, HSHF+13, HMA10a, HPG+10, HEJP17, IBD+19, JR16, JM15, JHHS17, KHW+16, KGM12, KR10b, KPLS15, KB18, KJH+13, Kos17, LMT13, LHL+17, LZS+17, LLP17, LAK+18, LBC+15, LPD14, LC13, LCML11, LRB12, MDW+12, MY11].
approach [MCW13, MGR+18, MHS+17, MSKS13, MAFG+19, MKSL+17, MSM+17, MRZU14, Mer12, MOMC17, MRM+17, MRR+14, MHC16, MN12, MFI13, MRTW18, Ned15, NJCF11, OFK+12, ODK16, PC17, PLFO+12, PAB13a, PVL+14, PRL+13, Pra12, PDG+14, RKL+15, RW10, RPA+18, RIMPBT19, RSCS19, RBRK16, SBA+19, SGBD10, SvdMKS11, SFvdM+17, SJGB16, SBR+19, SHX+12, SKH+13, SA13, SQWS19, SVL12, SDEP18, SNZ+19, SB15, TAC+14, THBF+17, THOA10, VR12, VSB13, VBS14, VPC11, VASH+16, VQS+18, WSW+13, WFW+17, WJS+18, WCS+14, WSS+16, WKF+17, WHH+18, Yan11, YYQ11, YJW15, YZPL16, YZLX14, ZH11, ZFZ+14, ZLG16, ZF11, ZVS18, vVHZHvD13, Wei19]. **Approaches** [BH10, CXL+19, CPS+19, DAP18, HKL+11, HKVR13, HKG+17, JGF14, JDP+12, KR10b, KCF17, KCF18, KBL10, LCD+16, LP17, LB18b, MBD+12, PM16, Wil11a]. **appropriate** [GSQ17, KVU+10, LCCL15, MU10, San11].
appropriation [CLWH15]. **Approximate** [LJLC15, vdVBJS15, CDK+17, RFV+12]. **Approximating** [LM13, SAT+15].
approximation [NSIiT17, TT12]. **approximations** [MRES17]. **April** [Ano10g, Ano11v, Ano11w, Ano12-28, Ano12-29, Ano13-39, Ano13-38, Ano14e, Ano14c, Ano15a, Ano15j, Ano16t, Ano17-38, Ano17r, Ano18-41, Ano18-38, Ano19-36, Ano19-47]. **APSIM** [ZBS14]. **APSIM-wheat** [ZBS14].
Aquaculture [HD14, AJDS16, BLCPB11, GL10, HCZ+17, IFC14, KTM+16, MHRB19, Mur13, RSDP+12, RPC+17, TPT+11]. **Aquatic** [AdMC+13, ALC19, AS14, ČTT+12, CCC12, EAB11, FSM19b, HB12, HB10a, JDGJ13, LJWN14, MY11, MNK+21, MU10, PHP+14, Pea15, RPSA12, RE10, SZV14, SGAS14, SBR+19, STD15, SGHW+17, TM12, TŠAD12, TM14, VMSM10, Wil11b]. **AQUATOX** [BPC+17, CBP+17, NGWZ16, YLY+18, ZLLZ13, ZCSL18]. **Aquifer** [MGWW13]. **Ara** [HBT+18, MFB17]. **Arabian** [SPM+18]. **arbuscular** [VH12]. **archaea** [LNB17]. **archaeological** [Mur12]. **archipelagic** [CXW19].
archipelago [BSO13, GPC14]. **ArchiSimple** [PBB+14]. **architectural** [GGR+13]. **architecture** [BBL11b, COBF13, EAJG16, GdC14, PBB+14, TBL+15]. **architectures** [dLB19]. **Architeuthis** [CMEP15]. **Arctic** [CR12a, DMB+19, JJMW14, LSR16, WR18]. **Area** [SRXP14, BLH10, BBJV+11, BVVS15, CZC+15, CGEdM12, DKJH13, FS14a, FGH+10, FJH15, GWHL15, Gav15, GZK+11, GBB13, GDBB19, GdSHA10, HA18, IBD+19, KKP+17, MWK19, MSF18, MS16, NMA+19, OOFVBC16, RML+15, ROSC15, SFL+19, VVA+15, WGD+17, ZLZS14]. **area-based** [VVA+15]. **area-restricted** [BLH10]. **area-wide** [GBB13]. **areas**

[ASP+15, BS13, BFPR16, BC13, BRL12, BJJ12, BAT+15, CL15b, CLHH19, CLCC11, DLH+14, FHG12, FYWA12, FBDR17, FPG11, FPWG14, GWR11, HCE+19, HSM+12, IGBSASSJ16, LSZC10, LDYL18, MD16, NKSA13, OAPP12, OCD+13, PMBM11, PPB+18, Pra12, SWZ+12, VR12, VPB+17]. **Arenicola** [DLL+19]. **Argentina** [GLT10, CCF13a]. **Argentine** [BPR+11, FHG12]. **Argentinean** [BRM+14, DSS11]. **Argentinian** [FB15]. **arid** [AHF+13, BC13, Ber13, Che17, CV19, FS18, GLRT16, GWF+18, HYL+17, KF16, LZZ+14, LLTQ14, LLTQ15, LHP16, LWL+17b, OES16, PLL+19, PLHG14, SJGB16, UR10, WYS12, ZLLC13, **?**, vLTdBP16]. **aridity** [PLL+19]. **arising** [Kal19, SWR+16]. **Arizona** [BHD16]. **armadillos** [OLC+17]. **Armenia** [ABS17]. **armigera** [BNC+18, FGH+10, PVB16]. **aromatic** [XWW+11, XQZ+13, ZCSL18]. **arrangement** [SXNL18]. **arrested** [SU15]. **art** [CCF13b]. **artedi** [MYJ+14]. **artefact** [Pau14]. **Artemisia** [SLB14]. **Artificial** [GDDFT16, BAT+15, CRBC11, GO15a, HDL+16, HWH+18, JBCÑ11, KHJ+19, LPX+12, MFS18, NNP19, PSWW11, RUSL19, SSW+18, TLZ17, WLR+11, WZD+14, ZZ17]. **artificially** [Yan11]. **artisanal** [ROSC15]. **ash** [KKR19, VCSSC12]. **Asia** [ACK+14, HLZ+18, RNE+12, SSY14]. **Asian** [GJM+13, LSJG17, LLC+21, ZLLC13, ZSG+18]. **Asiatic** [DFK+11]. **aside** [LJ10]. **aspects** [DH18, Kal19, VMP+19]. **aspen** [ARM+12, Gar17, MRR+14]. **asper** [CMGF14]. **assemblage** [BGC10, HCP10, MYHN17]. **assemblages** [BRMW18, CRB16, HJWG12, Pen11, PGKG12, TS11, WRMB18]. **assembling** [LCTH12]. **assembly** [AWL+13, BND19, GDTP13, XZZ+13]. **Assesment** [GJÁ+10]. **assess** [CTB+12, CVPR+16, CPD+11, CGEdM12, GDT+14, GJB+11, HGBA+13, JTB+19, KBS+15, KEM+16, LDS14, MSB+17, Mur11, SGM+14, TAGC+16, vVHZHvD13]. **assessed** [RWS+16, VLF+17]. **Assessing** [AAFH15, BFJ+11, BRW+12, BPM+15, BPU11, BU16a, BHPF14, DPBS10, FLX+14, FLH17, Fie12, FMLM11, Gre12, HRSKW15, HHC+13, HBA16b, KPT11, LCP14, LVV+15, LGDW12, MJY17, MBM+18, NL12, NMS+14, NPP+18, PBO19, PDD+18, PSKO16, QFG+13, RHW17, RMR+16, RV15, SMT19a, SMT19b, SDEP18, TLS+16, VPB+17, XCL+11, YSB11, BC13, CLH17, CSR15, CLNN14, GSA+19, HKG+17, JCKG15, JBW+17, LCBNP19, MSCM18, PKB+18, Pec12, RSD+15, SGDP19, TMT+18, VG19, XYY+16, dJGM+18]. **Assessment** [AAO10, CBGK15, GSJ+10, GMLRF10, HT14, JKS+10, LLKY18, MSHC13, PSWM+10, RDD+17, SFB+15, TSN17, TLL+17, UAB+11, WLZC11, WB16, YLC13, ZH11, AALP18, BCC+11, BPC+17, BCD12, BU16b, CHCC15, CZW10, CCC11, CCF13b, CLWH15, CLCC11, CAY+10, CBP+17, CRTS15, CKH15, DFL+16, DLD+11, EBL+11, FB15, FtHvdB+14, Fre16, FAC+19b, GHWG+14, GRRU15, GZK+11, GL10, GFP+16, GT14, GFC15, GB15, HA18, Hal11, HLW15, HFU11, HF14, HTL+14, HHL17, IPSH14, IS13, JZCL14, JXL+15, JDP+12, JL18, KSSA13, LDJZC15, LDG14, LSP+10, LB15, MLY+19, MY11, MSS+19, MR17, MPF+14, MDKK15, dMHGA10,

MAMNL+15, NGGFM19, OCB+13, OBC+21, PMS+17, PPB+18, PMH17, PAB+13b, PBD+17, QCB+11, RHS+15, RHD+16, SBM+12, SSV+12, SMI+19, SWZ+13, SZVV10, TNA+17, TA11, UFK+10, VHM+17, VMSM10, XYCZ11, YSH+10, YZPL16, ZGJ10, ZLLZ13]. **assessment** [ZLY+13, ZLJM17b, ZLZ+17a, ZLJM17a, ZCSL18, ZWG+17, dSD18, vDSC+10, vVBHZ11, vGKB10]. **assessments** [HKL+11, HCM+18, JMB+11, KB18, PRH17]. **assets** [BLOJ+19]. **Assigning** [PSWM+10]. **Assimilating** [LZZ+14, ZCS13]. **assimilation** [CC14, HKlL14, MF12, VRL14]. **assimilative** [XYY+16]. **assist** [LBR+17]. **assisted** [CMM+10, DSM+12, SBM+11]. **assisting** [MLAT+18]. **associated** [DBVS19, GPR+13, HS11, KTK+15, KDT+17, LJ10, LYL+17, Mat13, PLHG14, PANL11, RGH+13]. **association** [KKP+11, San11]. **associations** [BTPG10, HM18a, HM19, LBE+13, MDH15, WGSR19]. **assumption** [BDG+14, WSE12, WLR18]. **assumptions** [BG11, PC16, TF13]. **Astroni** [IBD+19]. **asymmetric** [RW17, TYEH10]. **asymmetry** [BA17]. **asymptotical** [WAM13]. **asynchrony** [CH14]. **at-risk** [BSW18]. **Athabasca** [MMRS+19]. **Athene** [EGMW12]. **Atlantic** [CSFB17, GQNMR18, PMF+13, WHRR15, AGQP+14, BRS+18, BSH+10, CRA+11, DMR13, DWP11, FAPM12, FCA18, GRL18, HSHF+13, HCM+18, JNHF18, LCD+16, LJ13, MSHC13, MSM+16, PAGCV+10, PP12, PGA+11]. **Atlantis** [IT17, OCCF17, PWP+19, WLF+16]. **atmosphere** [LPD14, MKF+11, WSZT10]. **atmospheric** [ACN14, GBG+15, Hol13, LY16, TRE+12]. **attached** [FCS13]. **attacks** [DHHB15]. **attenuation** [WBS13]. **attitudes** [BRW+12, BWP16]. **attraction** [GJB+11, RUSL19, SW11]. **attribute** [CL10]. **attribute-regulated** [CL10]. **attributes** [BPGSS+18, HMA10b, NBD+13, PBO19]. **August** [Ano10o, Ano10p, Ano11-30, Ano12-30, Ano13-32, Ano14r, Ano14o, Ano16a, Ano16u, Ano17-35, Ano17-36, Ano18-46, Ano18-47, Ano19-33, Ano19-37, Ano21b, BMF+11a]. **aurata** [PAGCV+10]. **Aurelia** [MIC14, Ned15]. **auricollis** [PGS16]. **aurita** [MIC14]. **Australia** [CRO13, KSZW16, DLW+17, DLvGGNC16, For11, GPR+13, HPO+15, LS10, LWNG13, LMBL12, NJM11, NB11, NBD+13, PKB+18, SMC11, TL15, WRSL11, WEJ11]. **Australian** [GPR+13, ADPS10, BTBM17, GWR11, LDG14, TBA19]. **australis** [WJL+13]. **Austrian** [HRSKW15]. **auto** [GM10]. **auto-facilitation** [GM10]. **autocatalytic** [GHK17]. **autochthonous** [KH11]. **autocorrelation** [DF13, HMD+16, HFMM+12, MSV+11]. **automata** [Cra10, DAF+11, HHL17, JBE+15, MJÁ+12, PD12, YZL12]. **Automated** [WKF+17, ČTT+12]. **automatic** [GWC+10, Tat16a]. **automaton** [GLI+21, ZJL+16, ZHLZ17]. **autonomous** [SJTS13]. **autotrophic** [GBR13b]. **autumn** [DDBK15, qHLlZ+16]. **availability** [BQF+18, FS18, mGZK+10, GPCG15, HMP+19b, MOMC17, NWAR12, PVL+14, ROG+16, SFHK12]. **available** [HRWT12, Pie10a]. **Aveiro** [BPGSS+18, DVD+14]. **avellana** [BOF+16]. **Avena** [BCL+14]. **avenae**

[DFF17]. **averaging** [BSW18, Log19b]. **averted** [Bus17]. **averted-loss** [Bus17]. **avian** [CMSPJ11, DWWS15, Rin14, WHNR19, ZWA19]. **aviculare** [MBBA17]. **avoidance** [GJB+11]. **avoiding** [SGSR10]. **away** [BL15]. **Ayu** [KUI+18, FSN+15]. **Azolla** [SZSV12a, SZSV12b, SZSV13, SZV14]. **Azorean** [PES19]. **Azores** [MAC+12]. **azoricus** [HSvO+18].

B [Wei19]. **babassu** [SFL+19]. **back** [CRQW18, Jør14a, JGX13]. **back-calculation** [CRQW18]. **background** [JTM+17]. **backscatter** [BW12]. **bacteria** [KPSC10, LNB17, MFD+15, MJÁ+12, WB17]. **bacterial** [Mur13]. **Bactrocera** [ABR12a]. **badger** [AGQP+14]. **bag** [RCS+19]. **Bahia** [MZLCSZdP11]. **Bai** [XWW+11]. **Bai-Yang-Dian** [XWW+11]. **baiting** [MS14]. **Baiyangdian** [XQZ+13, MY11, XYCZ11, XYCZ13, YYQ11, YM21, ZLLZ13]. **Baja** [CMCASS12]. **balance** [BLCPB11, CW17, CZ11, DCZ+15, FE14a, GCB+11, HYL+17, JOHW17, JAKJ10, KZR+13, LJR14, LY11, Lin10, Lin16, MDW+12, MDL+10, MSO10, MEC14, NOOM+16, Pie10b, Pie10a, SGAS14, URUNAM12, WZG15, XCG+16, ZKR+13]. **balanced** [CRUF13, JHH+12, OBC+21, PLR+13, SS11]. **balances** [BC13]. **Balancing** [YY11]. **baleen** [RMTM+16]. **Balgzand** [SFvdM+17]. **Balkan** [KTV+15]. **Balogh** [Wei19]. **Baltic** [BH13b, MMM+16, BH13a, BSO13, Hei11, HSM+12, IKL13, MML+11, PWK+17, TNHB12, WBS13, WB14]. **Baltimore** [SHS+12]. **bamboo** [GRL18, RBRK16]. **bamboo-dominated** [GRL18]. **ban** [ZKSF17]. **banana** [LBR+17, Och10]. **Band** [KHKC+18, PSKO16]. **banded** [OLC+17]. **Bandwidth** [KUK11]. **Banff** [MAM+10]. **Bangladesh** [BAA+14, BKM+18, HSCS14]. **Bank** [BWRA16, GDC12, HLS+14, vLTdBP16]. **banking** [RHB14]. **banksiana** [SGG14]. **Barataria** [LdMS+16]. **bare** [MLG+18b]. **bare-earth** [MLG+18b]. **Barents** [BSH17]. **bark** [FH11, HOKH18, KSI14, LTGD16, OJ10, VCSSC12]. **Barkedji** [BVVS15]. **barley** [JG10, LSS+15]. **barn** [dÁGP14]. **barnacle** [SSD+17]. **barramundi** [HD16]. **Barrier** [CDK+17, HBR19, TLW+14, DWP11, GKF+14]. **barriers** [MMCBP19]. **base** [WXB10]. **Based** [BMCG12, KvTL+18, LXS+16, AAJB21, ABS17, AD12, AMM+14, An12, AAW+15, AD16, AD18, Ano12s, Ano12t, ARTBB14, ABC+17, ACSR+13, Ash10, ADF13, BFA11, BVP+13, BAAB18, BHD17, BM11, BTS19, BP15, BPB+18, BG15, BTB17, BJJ12, BPR+11, BRM+14, BLB+17, BFNH14, BBGJ13, BBL11a, IHSM12, BSCG10, BDG+14, BQF+18, BPM+15, BRS+18, CGLA10, CRBC11, CC12, CVPH+14, CLBG15, CVS+13, CLLB12, CdMMF16, CF17, CC10, CWL+16, CL10, CCC11, CLA+12, CDK+17, CZCL18, CS18, CLT+11, CDL+11, CPS+14, CTC+18, CLBSG11, CRTS15, CCG15, CBA10, CT12, CPJ+13, CKH15, CDG15, CSL+12, DHC14, DJT+19, DLD+11, DVT+10, DFD11, DJMBD+13, DDR+14, EKB18, EST+19, FCH+17, FN15, FB15, FBA+11, FB13, FCV+12, FS18, GH13, GLC+18, GEEC14, GGM+12, GDTP13, GO15a, GFW+17, GCTS15, GPZB18, GGVB11, GOSH+12, GLS10b, GJB+11]. **based**

[GHS+16b, GLS+17, GS19c, GCvDM12, GCM+13, HMP19a, HCW+17, HM18a, HM19, HLW15, HZSH17, HWS11, HS13a, HTL+14, HSHF+13, HHC15, HGAT17, HCL+16, HHK19, HR11, HVCP16, HRWT12, HDL+16, HhLY+19, HYL+17, HSD+15, HBB15, IFC14, IN16, JD18, JKS+10, JTB+19, JC11a, JOHW17, JHT+14, KFWM19, KMRW16, KF16, KCG18, KCF17, KCF18, KTM+16, KB18, KH15, KGD14, KWJH16, KKI+14, KBMM15, LJLC15, mLcLJ15, mLcLJ16, LDG14, LLB+19, LPF11, LJ15a, LSA+19, LTL+13, LLT+14, LJ14, LYSW15, LJ15c, LHL18, LPS+10, LDM15b, LKP13, LSGT13, LYCZ13, LYCU14, LBS+14, LYC+15a, LKAY15, LAK+18, LAEAG12, LBGM19, LGDW12, LSL10, LRB12, MK13, MHL+19, MLY+19, MG16, MD16, MY11, MCW13, MWY+18, MLG18a, MWK19, MHS+17, MSH+19, MBRR13, MSMM11, MSM+17, MGW+13, MvdWU+16, MAP+13, MPF+14, MAB19, MRES17, MBM+18, MRR+14, MGSB11, MMGK15].
based [MJÁ+12, MATS14, MSM+16, MMMGLN+18, NL12, NMT+19, NCEGB16, NPJ+17, NNP19, NMA+19, NMdR16, OGG+16, OHS+17, PC17, PCTW17, PHP+14, Pér18, PLB16, PRL+13, PWP+19, PGZ+19, PLL+19, PRH17, PP12, PNHL14, PZM13, PLS11, PGG14, PSSH11, QWJL19, RVL+18, RHvdTS14, RMP+18, RLHD11, RHZ+18, Rin14, RDJ19, RDD+17, RR10, SBCB13, SGBD10, SJGB16, SM11, SMT19a, SMT19b, SZ14, SRSS12, SWC13, SLY+17, SVL12, SSK14, SZVV10, SLH+11, Sil11, Slo11, SBPZ12, SBA+13, SGSR10, SGWV15, SvdR10, SS11, SH18, SYY+19, SB15, SLD+19, TB13, TB11, TB12a, TLL+17, TMPF18, TAT+16b, TSM+15, TVF+10, THO10b, TTCC+19, Uch16, UG12, VLZ+19, VSF10, VR12, VBS14, Vav12, VRL14, VVA+15, VGR+11, Wal17, WLZC11, WMW+12, WLDL12, WC13a, WC13b, WGA+13, dWcWbZ15, WSL17, WFW+17, WLC+19, WJS+18, WR13a, WNF+15].
based [WR17, WAM13, WV12, WSS+16, WP14, WHC+13, XLR11, XZC+17, XCL+11, XYCZ11, XPY+14, XGH+17, YqWB+15, YL17, YZL12, YLC13, YXZ+21, YSA+14, YRGH16, YXD+18, ZSS17, ZMS19, ZHC+16, ZLZS14, ZQC15, ZLFZ16, ZLJM17b, ZLZ+17a, ZDL+17, ZLJM17a, ZWW+18, ZZT13, ZVS18, ZWJ+17, ZPNM13, dÁSMRT+19, dJHMS19, dOMZ13, dOAC18, vPTOW18, vdVBJS15, vdVJS16, SMBGH+19, GCCB18, mNkGyT+17, PD12, PMS11, SWZ+12, WYS12, WFN+16]. **based-model** [BRM+14]. **baseline** [BPC+17, BU10, BU16a, BCUF16, BCDU16, Cam16, DBSA16, RVB+10]. **BASGRA** [HHvO+17, HVCP16]. **Basic** [WGSR19, SM12]. **Basin** [FBB+18, GLS+17, HG17, LY16, LC11, RZF+13, SXZ+15, WZG15, YYL13, YLC13, YM21, YDL+15, ZLZ+17a, dFMdSA18, AD12, Con11, Con12, GLC+18, GYL+13, HSM+12, MMRS+19, MSO10, OWMK10, SWZ+12, SGRAdJ17, YXD+18, ZWRK13, CL15b, FCH+17, HZSH17, MY11, PWK+17, WFSH15]. **basin-level** [OWMK10]. **basins** [JMB+11, JBW+17, MLH+17]. **basis** [KAF+14, LV17, TNHB12]. **bass** [LBW18, MLS+11, WFN+16]. **bat** [CESC19, HCP10, HBSF16]. **bathymetric** [NMA+19]. **Bathymodiolus** [HSvO+18]. **Batrachochytrium** [ACCM16]. **bats** [RTE+15]. **battle** [Rin18]. **Bay** [BN10, BLCPB11, GSQ17, GL10, KR10a, KSZW16, LdMS+16, MLS+11,

NJCF11, WEJ11, XZC+17, BSO13, DCZ+15, GSJ+10, CN10a, CMLY19, DC10, FMLM11, GPH17, GDDFT16, HPC13a, HPC13b, JX17, KH11, KZR+13, KPLS15, LBSB+14, LZW+17, MTZ+10, PHP15, PPDF14, SSN+18, TSN15, TSN17, URUNAM12, ZKR+13, ZW10, ZSF+12]. **Bayes** [SFL+19]. **Bayesian** [JMdW+10, KCF18, WLS+11, ALG16, AHS+17, ABL+13, BSC+15a, BVC+18, BSW18, BLFS18, BFR17, BDG+14, BAJ+11, BLAV18, CSOS17, CDK+17, CPS+19, CRQW18, FDP+10, FHL+13, FLB+15, FCV+12, GKF+14, HPJ15, HSK17, HMS+11, HlLB12, HHvO+17, HEJP17, KSSA13, KCF17, LJLC15, LLB+19, LBE+13, LYJ+15, LQW+19, LLKY18, MMD+17, Mar12, Mar17, MR17, MDH15, MJLC14, MHC16, MFI13, NF11, PLR+13, PES19, PBD19, RLB+12, RFV+12, RWS+16, RAR15, RRvdG18, RKNO17, SML12, SRM11, SP12, TOHT14, VRM+10, VPB+12, WC13a, WC13b, WC13c, WLS+10, YZPL16, ZLG16, vdVBJS15]. **Bayesian-network** [RRvdG18]. **bays** [OBC+21]. **BC** [MSH+19]. **be** [BU11a, Che16, CHG+15, dSCdA19, FMBD15, FE14a, GVGC16, GAB12, HSLC+19, Har11, Kos17, MBLC14, PTML14, PLS+16, RA13, RPGSCF16, TCGC16, vdVJS16]. **beach** [LDO+18]. **beaches** [LBD10]. **BEAMS** [SNS+12]. **bear** [DSBM+18, DNFG18, DFK+11, JSW+13, LBWW14, LPSC16, MSH+19, OJM+12]. **bearing** [DJMBD+13]. **bears** [AMM+14, LARZN13, MHS+17]. **beavers** [PGZ+19]. **become** [BGGL16]. **bed** [MBUM12]. **Bee** [DDR+14, GAG+12, AOW12, AOW13, BBB+17, BGK+16, KEHG17, KDHC+18, MHTC15, OBSL15, RBH13, SGM+14, TWL11]. **bee-pollinated** [TWL11]. **beech** [BLB+17, CVV+13, EKB18, TGB+17]. **BEEHAVE** [BGK+16]. **Beer** [dLB19]. **bees** [GLSA+11, GPA+13, KEHG17, SGM+14]. **BEESCOUT** [BGK+16]. **beet** [BDL+13, BDL+14, CDT10]. **Beetle** [SRT16, BA14b, CHK+12, FH11, GEB10, HOKH18, KKR19, KSI14, LTGD16, PB14]. **beetles** [OJ10]. **before** [KKR19, SA16, SS11]. **beginners** [MTA19]. **begins** [Nie16]. **Begomovirus** [JSKK15]. **behave** [FL11]. **behavior** [AAA13, APWT15, BCP15, BAAB18, CWM12, DFL+16, DWWS15, DDR+14, GGTP+17, HBB15, MHTC15, MAM+10, NG11, PMM11, PF12, Rin14, SAT+15, SHCR10, Sim11, SK15, TSN15, URJ10, WSZT10, vDHH+14]. **Behavioral** [SGSR10, BSP12, BCJ+12, DDR+14, GLS10b, LLC11, PNHL14, SMH+12, ZHV14]. **Behaviour** [TV15, BGK+16, BLD+10a, DMBS11, EIG+10, HMP19a, HVL+19, LDS14, LCD+16, LS10, MvDL+10, MRC19, PC17, POB18, VRM+10, WMCM12]. **Behaviour-manipulating** [TV15]. **behavioural** [CHR+13, MSM+17]. **behavioural-strategy** [MSM+17]. **behaviourally** [CRUF13]. **behaviours** [MBM+18, RHO11]. **Behind** [RJG+13]. **Beijing** [CCC11, DLD+11, FCZ13, HCM+15, HLW15, HZZ+18, HFB+11, HM18b, JMW11, LLW+15, XHC+15, ZYLY11, ZLC13, ZZY+13, ZLF14, ZLF+15, ZLFZ16, ZLZ17b, ZMH19]. **being** [SSS+11]. **Bejan** [KOBK13]. **Belgium** [BVP+13, EBL+11, GVV+16]. **Belief** [KCF17, KCF18, LLKY18, FLB+15, VPB+12]. **bell** [HS11]. **below** [PLB16, SBC+11, YKL+12]. **below-ground** [PLB16, SBC+11]. **belowground** [KPMJ14]. **Belt** [MR17, ADPS10, Hal11]. **beluga**

[MDVG+15]. **benchmark** [JFS+12]. **benefit** [CSF11, CMD12, CLNN14, Jag14]. **Benefits** [GCCJ12, BFJ+11, DLZ+17, DDR+14, KK10, LDJZC15, MJY17, VQS+18, WSE10]. **Bengal** [URUNAM12]. **Benguela** [BPB14, HT16, OCCF17, WJS+18]. **Bennett** [HH12]. **Benning** [DÖWB12]. **Benthic** [HPRNP12, ADJ+17, BNMP11, BH13b, BCO17, BPK+16, CWLC13, HFH+19, HKM+18, KL12, KR16, LBE+13, MG18, MHG18, OdlFDP15, OBC+21, PLFO+12, RPC+17, RCP17, SAR11, SLY+17, Sin17, ZSJ15]. **benthos** [MSCH14a, MSCH14b]. **Bernard** [GCTS15]. **Beroe** [AALP18]. **berry** [GPM16b, RCG+13, RCGC17]. **Bertalanffy** [CSOS17, KDMPC10, SIS+14]. **Best** [HCL+16, ABC+17, RSD+15]. **beta** [KCG18, SCHGM16, CDT10]. **better** [ACE+17, GAF+14, MBLC14, MPF+14, OGOWW16, RRJVA13, SG11b]. **Between** [HTVE18, AR11, ALC19, AAW+15, BFPR16, BLD10b, BMCG12, BSS+14, BDTV11, BPN12, CT16, CRA+11, CBB19, CAMNN16, CBA10, DdSCG11, DZW+11, DBG14b, DBG14a, DSS11, DLW+17, DGKSM13, DMBS11, GDC11, GVV17, GJB+11, GPP+19, GAV+11, HB12, HCS+10, Hei11, HMA10a, HWL17, JZCL14, KMMS17, LV17, LSJ+18, LSJ+19, LMT13, LB11, LY11, LWGH13, LLQ+15, LZS+17, LCPB+10, LSR13, MHS+17, MTA19, MP13, MDH15, NWAR11, NGRDTHRL19, Pau14, PGZ+19, PSWW11, PBP+15, RHR+15a, RDD+18, RH15, SDT10, San11, SRTS18, SCG+13, Str15a, Str15b, SGKR10, TMPF18, TVT12, TQZ12, TNTH11, WN17, WFA10, WNF+15, WK11, XKI+11, YZ18, YLC+18, YLL+12, ZPZ+15, ZW11, ZFZ+14, ZBS14, ZWG+17, dAdSC15]. **Between-group** [HTVE18]. **Beyond** [BRL12, GMTC+17, HLK+12, KPS17, SS10, THJ+12, TB12b, TPT+11, Kat11, WK11]. **BGC** [DAW+10, HBH+12, HGN+16, MCWG21, OWMK10, RHvdTS14, SLZ+17]. **BGC-ES** [OWMK10]. **bi** [MLMH18, vDHH+14]. **bi-level** [vDHH+14]. **bi-stable** [MLMH18]. **Bias** [DAP18, FM11, AG11, ACC11, BOGA14, CGS+17, GU11, KHW+16, LW17, PPBD13, YAGMM+14, dSD18, vPTOW18]. **biased** [TB12b]. **biasing** [BOW+12]. **BIBDM** [HFH+19]. **Bibliometric** [BSMA18]. **Bidens** [DZS12]. **biennial** [WTC+18]. **Bifurcation** [CCG15]. **big** [GMTC+17, MN12, SLB14]. **Bight** [FSB13, GPR+13]. **Bijar** [HA18]. **bilateral** [Ju19]. **Bilberry** [LM19, Log19a]. **billed** [JHHS17]. **billion** [SvBH+14]. **bin** [YWA+17]. **binary** [Sto10]. **binding** [SWS16]. **Binhai** [YLHZ14]. **bio** [CMSPJ11, IFC14, IS13, ISG13, LDCB21]. **bio-economic** [IS13, ISG13, LDCB21]. **bio-inspired** [CMSPJ11]. **bio-physics** [IFC14]. **Bioaccumulation** [TPL+15, BCC+14, XPY+14]. **biochemical** [MH13, TMT+18]. **bioclimate** [WRB+12]. **bioclimatic** [CSS+19, OBLJ13, PKW+10]. **biocontrol** [KR14]. **biodegradation** [BFJ+11]. **biodiesel** [JC11b]. **Biodiversity** [Bus17, DFH+14, GHK17, KKBZ17, CT16, Che15b, Che16, Con11, Con12, DDR+18, DLW+17, FL11, KK16, LL17, MRP14, NJM11, PK12, RE10,

SRTS18, SBC+15, SB15, WLS+10, WLS+11, dSJHG10]. **bioeconomic** [KMMS17]. **bioenergetic** [BWC17, CW17, FAT+15b]. **bioenergetically** [HHUD14]. **bioenergetics** [BTB17, DC10, DJT+19, DMB+19, DHC16, FE14a, JSH15, PHP15]. **bioenergy** [CSH11, CSH13, HGN+16, KØ13, LCPB+10, PMS+17, PANL11, WMF+13]. **bioethanol** [SØB14]. **biofilm** [DLCR13]. **biofilms** [MFD+15]. **biofuel** [LRM+14, TFH12, YDD+13]. **Biogenic** [CSH13, OC15]. **Biogeochemical** [OWMK10, AL16, BAB+16, BLLJ17, CLL14, DWP13, GS10, GCM+13, HPG+10, KTGH19, MSGG14, MU10, MBUM12, MJC+11, MF12, Nak17, NP18, PCTW17, RPSA12, RML+13, SPM+18, SFC+12, SG11a, WB17, ZPZ+15]. **biogeochemistry** [GBG+15, PHP+14, SEHD18]. **Biogeographical** [AR11]. **biogeography** [BLD10b, CWMC+12, HKVD16, TPO+18, VPC11]. **biogeophysical** [LHZS10]. **bioinspired** [CMGF14]. **Biological** [AG15, MCT10, PFP+16, WJL+13, AHM+16a, AD16, BMN11, CHvdW+10, CTC+18, CKH15, CRVS13, Dol10, FBA+11, GPH17, Gre12, GJK+15, HYG14, HDL+16, IGR+18, JB11, JX15, LCAJGFNS14, LCR12, LZB17, MWY+18, MJB+11b, MvdWU+16, MLK17, Mon13, SR14, VRL14, VG19, VJR+16, VPM+18, YLW14, ZLG16]. **biologically** [CLL14]. **biology** [HLS+14, LBM16]. **biomanipulation** [LLKY18, OHS+17]. **BIOMAS** [IS13]. **Biomass** [RKC+15, RHD+13, BDL+14, BWC17, BSO13, CSR15, CRD+16, CTP+17, FMLM11, GPK+13, HFH+19, HLLP+10, JDGJ13, LBE+13, LBD10, LdMS+16, LSL10, MBD+18, MSCH14a, MSCH14b, MWD+15, NBD+13, Oga18, PCTW17, PP16, PANL11, RMHE15, SGAS14, SAI10, SSY14, SLLW15, VHM+17, Vav10, VALC12, WMF+13, WCG+11, XGH+17, YZ18, ZWRK13]. **Biomass-dispersal** [RHD+13]. **biome** [FLY13, RHvdTS14, HBH+12, SLZ+17]. **BIOME-BGC** [RHvdTS14, HBH+12, SLZ+17]. **biomes** [SBC+11, WBC+12]. **biometric** [Rem11]. **Biophysical** [BAP18, JXL+15, BAB+16, BU11b, DK17, FC11, LB18a, PBO19, THC18, VPB+17, ZH13]. **biophysics** [RDD+18]. **biopore** [GPK+13]. **bioresource** [Ret12]. **biosecurity** [GKKW10]. **Biosphere** [HV15, San17, COY+10, PSSH11, PSS16, SNS+12, SHC+15]. **biospheric** [HPW+12]. **biota** [BNGP19, CKS+17, CSS+17, DKJH13, KCB+17]. **Biotic** [AL16, Els10, FM10, FMW+19, GSSM13, LMR16, MHL+19, MSV12, NGL13, PGS16, RDD+18, SGM+14, VPC11]. **Biotope** [CB19]. **biotransformations** [GBB+11]. **bioturbation** [RGU+15]. **biphasic** [AB13]. **biphenyl** [ZLLZ13]. **biphenyls** [SHS+12]. **birch** [HKN17]. **bird** [BBRJ15, CPR10, IBD+19, KHKC+18, PK14, RJ11, SDKE18, TRP12, TDH12, Tho10a]. **birds** [CHR+13, EGMW12, EEFE+11, FMW+19, GSF+16, Kos17, MLK+11, SJGB16, TZD+15]. **birth** [JDZC14, NYF16]. **birth-and-death** [JDZC14]. **birthday** [GB16b]. **Biscay** [GPH17, LBSB+14, PHP15]. **bistability** [RCP17]. **bistable** [Ber13]. **bisulcus** [LAEAG12]. **bivalve**

[CN10a, IFC14, MG18, MHG18]. **bivalves** [FP17, MSR+14, SvdMKS11, SFvdM+17]. **black** [BFJZ+11, BRKP16, CAC+16, DSBM+18, DBG14b, DBG14a, DNFG18, DFK+11, JCKG15, LBR+17, LBWW14, MSH+19, MCG19, TVF+10, THO10b, ZDL+17, AALP18, GS10]. **black-crowned** [BFJZ+11]. **blacklip** [LJWN14]. **blackwater** [WB16]. **blacodes** [CRQW18]. **Blanc** [CRA+11]. **bleaching** [BMR+18, YSB11]. **bleak** [MMVAHMC16]. **blight** [PHvB+18]. **blind** [RV13]. **bloom** [CIHL14, HHC15, KLS17, NvGZ+16, SELB10, SLW+14, WBS13, WFW+17, XJY+16]. **bloom-dominated** [SLW+14]. **bloom-forming** [WFW+17]. **blooming** [WX11]. **Bloomington** [Jør14a]. **blooms** [BS18, CMLY19, DG11, DA19, DWP16, GRB12, GDDFT16, MWY+18, MHC16, SQWS19, YXZ+21, ZYZ17]. **Blue** [HBT+18, MFB17, CWJ+13, KK12a, MTZ+10, WCG+11]. **Blue-throated** [HBT+18, MFB17]. **blue-winged** [KK12a]. **blueberry** [BHD17]. **bluefin** [PAGCV+10]. **bluegill** [GV11]. **BMP** [GWHL15]. **BMPs** [MJY17]. **boar** [RCS+19]. **Board** [Ano17m, Ano17n, Ano17o, Ano17p, Ano17q, Ano10a, Ano10b, Ano10c, Ano10d, Ano10e, Ano10f, Ano11b, Ano11c, Ano11d, Ano11e, Ano11f, Ano11g, Ano11h, Ano11i, Ano11j, Ano11k, Ano11l, Ano11m, Ano11n, Ano11o, Ano12b, Ano12c, Ano12d, Ano12e, Ano12f, Ano12g, Ano12h, Ano12i, Ano12j, Ano12k, Ano12l, Ano12m, Ano12n, Ano12o, Ano12p, Ano12q, Ano12r, Ano13c, Ano13d, Ano13e, Ano13f, Ano13g, Ano13h, Ano13i, Ano13j, Ano13k, Ano13l, Ano13m, Ano13n, Ano13o, Ano13p, Ano13q, Ano13r, Ano13s, Ano13t, Ano14a, Ano17e, Ano17f, Ano17g, Ano17h, Ano17i, Ano17j, Ano17k, Ano17l, Ano18a, Ano18b, Ano18c, Ano18d, Ano18e, Ano18f, Ano18g, Ano18h, Ano18i, Ano18j, Ano18k, Ano18l, Ano18m, Ano18n, Ano18o, Ano18p, Ano18q, Ano18r]. **Board** [Ano18s, Ano18t, Ano18u, Ano18v, Ano18w, Ano18x, Ano19i, Ano19j, Ano19k, Ano19l, Ano19m, Ano19n, Ano19o, Ano19p, Ano19q, Ano19r, Ano19s, Ano19t, Ano19u, Ano19v, Ano19w, Ano19x, Ano19y, Ano19z, Ano19-27, Ano19-28, Ano19-29, Ano19-30, Ano19-31, Ano19-32, Ano21a]. **boat** [CLD+17]. **body** [CW17, CB15, SMT19a, SMT19b, SCHGM16]. **bog** [WRM+11]. **Bogotá** [RMLTCQ+19]. **Bohai** [DSW+17, LLP17]. **Bolboschoenus** [AML13]. **bole** [Gav15]. **Bolinao** [GL10]. **Bolivia** [SAKB+10]. **Bolivian** [TSSL11]. **bollworm** [FGH+10]. **bomb** [HKlL14, KHW+16]. **bomb-produced** [HKlL14, KHW+16]. **bonariensis** [BCC+14]. **Book** [Jør14a, Kat11, Pat14a]. **Boom** [PMB+17, ABAA21]. **Boophilus** [WTG+16]. **boosted** [MROGVR12]. **boosts** [FN18]. **bootstrapped** [SMT19a, SMT19b]. **Boran** [TT17b]. **Boreal** [Hol13, MPL+16, ARM+12, AMR16, BHC+15, BS16b, BS17, CAC+16, CSH11, DBG14b, DBG14a, FAMD+12, GZK+11, GWK+12, GCB+11, HMS+10, HCS+10, KRL+16, KLS+14, LKKK+14, LKLK15, LM19, Log19a, LSR13, MK12, MCG19, SSK14, SPG11, TLRL11, Vav12, WGA+13, WMK+13, WJK11, XKI+11, ZJM+11, ZZB+18]. **boreas** [BKP10, Bar11]. **borer** [KKR19, MBD+12, RCG+13, RCGC17, VCSSC12]. **borne**

[LBR16, WGTH16, WGE+19]. **Bornean** [KK12b]. **Bornholm** [PWK+17]. **Botswana** [LMCA+12]. **bottlenose** [BWC17, MMCBP19, PNHL14]. **bottom** [BWML15, FCS13, FRP18, TSN17, ZZL+19]. **bottom-attached** [FCS13]. **bottom-up** [BWML15, FRP18]. **bounce** [DKM+14]. **boundaries** [ALKB10, BM11, LFH+15, Mur13, PFA+16, TCGC16]. **boundary** [HRSKW15, YCF15]. **bounty** [JSW+13]. **Bourget** [BGPJ10, BMD18, KJVL+17]. **Bow** [NFU19, WR13b]. **box** [LMT13, THO10b]. **Brachycephalidae** [PMF+13]. **Brachycephalus** [PMF+13]. **brackish** [CHPS17]. **branch** [ZGF14]. **brasiliensis** [KMM+13]. **Brazil** [CSFB17, dFMdSA18, AAO10, BSS+14, DBK+13, GAG+12, GRL18, IGR+18, RCCN11, dHR18]. **Brazilian** [CGY11, LBE+18, PMF+13, PGA+11, dSD14]. **breadth** [LJ15a, SWS16]. **break** [RMGU11]. **Breeding** [MGB13, BVVS15, DHS+16, HPS10, HSTS19, JHHS17, LDS14, MSCM18, MBM+18, SGA+16, SSQ+10, VHDM17]. **brevis** [DA19, HHC15]. **bridge** [FWRZ10, KMMS17, LMT13, WBG+14]. **bridge-replacement** [FWRZ10]. **bridges** [GPP+19]. **Bridging** [DLW+17, HB12, LSJ+18, LSJ+19, SCG+13]. **brigalow** [NJM11]. **brings** [TYEH10]. **Bristol** [PPDF14]. **British** [Gar17, MCS+18, RLS11, WFA10]. **broad** [BGD+16, RHZ+18, ZLB14]. **broad-leaved** [RHZ+18]. **broad-scale** [BGD+16, ZLB14]. **broadcast** [CH14]. **broadened** [VSB13]. **broadleaved** [CZC+15]. **Brood** [BHHM10]. **brooding** [MATS14]. **brook** [FB13]. **brown** [AMM+14, CSR15, CESC19, FB13, KSZW16, LMGW16, LARZN13, MMMGLN+18, OJM+12, RTE+15, LTL15, Ten15b]. **Brownian** [WBG+14]. **browsing** [CHG+15, DDM+17]. **bryophyte** [LKLK15]. **Bt** [FPO18, GV15, HLLO13a, HLLO13b, HQF+17, PPZ+17]. **Bt-crops** [HQF+17]. **Bt-maize** [HLLO13a, HLLO13b]. **bud** [NS15]. **budburst** [FCV+12]. **Buddleja** [PKD11]. **Budget** [GMvV17, SKTG11, EIG+10, HMP+19b, JR16, JNHF18, JHT+14, PGK+13, ZLG16, DLL+19, GPH17, JZ12, LLC+17, PLS+10]. **budgets** [DJS10, ENM11, GS10, JBH+14]. **buffalo** [KMRW16, MMS12]. **buffer** [SRXP14]. **buffers** [ZLJM17b, ZLJM17a]. **Bufo** [BKP10]. **build** [BMR+18, CMEP15, vdVJS16]. **build-up** [BMR+18]. **Building** [Ano12a, GPP+19, KAC+12a, KAC+12b, LB17, SBC+16a]. **built** [GA15, MGS15, SLH+11, SBC+15]. **built-in** [GA15]. **Bulk** [KMRW16]. **bullfinch** [MAC+12]. **bullhead** [KDMPC10]. **bumble** [BBB+17]. **buoyancy** [MUP+13, SAI10]. **buoyant** [BM16, GPJL15]. **burdens** [CW17, MGCL17]. **Burm.** [MAO19]. **burn** [dMHGA10]. **burning** [CPD+11, SSY14]. **burrowing** [EGMW12]. **Burullus** [ESA12]. **bush** [BG11]. **bush-crickets** [BG11]. **business** [FTTV+18]. **bust** [ABAA21, PMB+17]. **bustard** [MAM+12, SSQ+10]. **butterflies** [DPBK10, FJH15]. **Butterfly** [WPZ+14, CJM+12, CWJ+13, EST+19, GQRC+17, GPZB18, RJG+13, RKBG14]. **Butterworth** [WSS+16]. **by-catch** [NNST+14]. **bycatch** [LJ13].

C [Jør14b, GPM+16a, DCMK11, DAW+10, DVD+14, EFM+10, HKlL14,

JS12, KHW+16, MKTO19, TTCH+14]. **C-TOOL** [TTCH+14]. **C.** [AR11, PL10a]. **C3** [HBP18, YqWB+15]. **C4** [HBP18, YqWB+15]. **CA** [TLLX19, dWcWbZ15, YZC14, GVV+16]. **cabbage** [HWH+18]. **cackling** [WK17]. **cadastral** [VVA+15]. **Cadiz** [TCH+13]. **cadmium** [BFP+18]. **CAFFEE** [SM13]. **caffer** [MMS12]. **CAGD** [AS11]. **cage** [CHCC15, RPC+17, TPT+11]. **Calamagrostis** [Log13a]. **Calanus** [JSH15]. **calcarifer** [HD16]. **calcification** [MB14]. **calcite** [HC11]. **calculate** [Jør15a, Jør15b]. **Calculating** [BLCPB11, CCS13, LY11, SBDA16, LLCR10, Pat14b, MBRR13]. **Calculation** [JMW11, PPF11, Cam16, CRQW18, Sci11a]. **calculations** [FSB13, Fie12]. **calculus** [LTL15, Ten15b]. **Calcutta** [MGMR15]. **calibrate** [vdVJS16]. **calibrated** [HMS+11, KPS19, PBP+15]. **Calibrating** [PWP+19, JAKJ10]. **Calibration** [GGM+12, MPL+16, PBB+14, vdVBJS15, BVC+18, BDV+19, CDK+17, CBA16, GdSHA10, GBP+10, HHvO+17, JSL+10, KHW+17, LH15, LYJ+15, Log13a, MA10, MBUM12, NGWZ16, OGOWW16, OCD+13, RKL+15, RCCN11, SFC+12, XBvdV+14, ZCYL15]. **California** [CMCASS12, RBGB16, DUASLB+12, GEZ+13, HKM+18, KKH+17, KEM+16, LVZ+11, MKL14, MJK+17, TPG14]. **californicus** [dOMZ13]. **call** [LBGM19]. **callarias** [IKL13]. **callitris** [NBD+13]. **Callorhinus** [ZKSF17]. **calls** [WSS+16]. **Calotriton** [CMGF14]. **calvescens** [PMS11]. **CAM** [HBP18]. **Cambodia** [KMM+13]. **camera** [CGS+17]. **Campaign** [LLZ+16]. **Campania** [MRZU14]. **Can** [BU11a, CVV+13, CJM+12, FE14a, GAB12, Har11, MCRB17, MMMCAHM21, PTML14, RMGU11, RPGSCF16, SBM+11, SVH+19, TKW17, TRP12, TBL+15, WKZ+19, WR13b, YLW14, YHW+12, YHJ+17, ZKR+13, BOGA14, Che16, CHZ18, CHG+15, dSCdA19, FS14b, FTYI13, GVGC16, Gav15, HSLC+19, Lee14, MBLC14, NZL13, NYH15, POS+19, Rin14, SS16, SA16, SJB+16, VEMS12, dAdSC15]. **Canada** [CLD+17, LMY+11, LYP+11, LPA+11, MSHC13, ABK+16, BHC+15, CAC+16, ENC+15, HMS+10, KZR+13, LYD+17, MAM+10, SHM+14, VCSSC12, WFA10, ZJM+11, ZKR+13]. **canadensis** [PGZ+19]. **Canadian** [HSK17, HCS+10, SKTG11, SPG11, YDD+13]. **canals** [ASL13, FBL+10]. **Canaria** [CMCC15]. **Canary** [MGGLBIBD13]. **candida** [HFSL14]. **canine** [BG15]. **Canis** [CWL+16]. **cannibalism** [GVGC16]. **cannibals** [SKPHW16]. **canola** [SFHK12]. **Canonical** [JG10]. **canopies** [For14, MJGC13]. **canopy** [AS11, AS12, Bai18, DKM+14, FAC+19b, GZK+11, GGR+13, KGS11, KKL+12, KMM+13, LKLK15, LB18a, MK14, Pie10b, Pie10a, SMSAN+14, SRV+12, XKI+11, dLB19]. **Canterbury** [JBB+11]. **Cantin** [CRA+11]. **capabilities** [SBC+16a]. **Capacity** [VEK12, BDL+14, BLCPB11, hCjHMW18, CN19, EMH10, FHAG12, GLA11, GL10, IFC14, JL18, KTM+16, LDG14, NCK10, PW10b, SWS16, TT17b, WB16, XCL+11, XYY+16, YZ16, ZLZS14, ZZL+19]. **Cape** [CRA+11, HB14]. **capita** [CTC+18]. **capital** [BPD+19, DYU+12, FBDR17, Ken17, PPB+18, PBD+17, VPB+17]. **Capra**

[AR11]. **capricious** [CN19]. **Capture** [SCHGM16, CGAB17, HVL+19, RGHS11, vPTOW18]. **capture-mark-recapture** [HVL+19]. **Capturing** [JSH15, BCJ+12, GHWG+14]. **Carapa** [KCKdOW12]. **carbohydrate** [SBC16b]. **Carbon** [ABK+16, CSS+19, FDR+17, Fel12, GS10, HPW+12, MPM+15, SKK+13, SKH+13, SKTG11, SS11, VJR+16, Ant14, ACN14, BMMC21, CVV+13, CZC+15, COBF13, CAC+16, CS18, CHVH13, CQS15, DJS10, DFRT14, DLL18, FBdP+16, For11, GTC16, GHP12, GE17, GCB+11, GGVB11, GRD+14, HMS+10, HWS11, HHF+10, HBA16a, HBA16b, HAA+21, JWX18, JDT+17, JN15b, JAKJ10, JNC+11, KH11, KJMA11, KRL+16, KHW+17, KVS17, KPS19, LZLC13, LLZ+16, LHP16, LLT+17, LHL18, LVZ+11, LHR+15, LFH+15, LBC+15, LBdA+19, LDYL18, LB18a, MLB+16, MKF+11, MJP+12, MVC+17, MTL+10, MDF+18, MCG19, MJF19, MLH+17, MB14, MRG13b, Nak17, NP18, NJM11, Oga11, OKS+11, OLG+13, OQH+13, PAS+10, PP16, PMB+17, PDAL14, PD15, PLFO+12, PBFS14, PGK+13, RHZ+18, SHB+11a, SKMB11, SHM+14, SYL+13, SSY14, SEHD18, SCG+16, TTCH+14, TLL+15, TRE+12, UKI+11, Vav12]. **carbon** [VRC17, VPM+18, Wan19, WO14, WMK+13, WJF+11, WLH+10, WZD+14, WR18, WJK11, WJvdL+13, XZSL17, XGH+17, YYH19, ZZY+13, ZLLC13, ZJM+13, ZJL+14, ZLF+15, ZLW+15, ZWF18, ZZLZ14, ZHCX15]. **Carbon-based** [SS11]. **carbon-nitrogen** [KPS19, PMB+17]. **carbonate** [SG11a]. **carcass** [Pér18]. **cardinal** [Pat16a]. **Caretta** [WHRR15]. **Caribbean** [ABAG14, KTK+15, KDT+17]. **caribou** [BMSLC16, SMH+12]. **Carlo** [BWA17, CTMS10, HT14, Ken19, KGM12, MA10, Qia12]. **carnivore** [CGV+15, MV11]. **Carp** [CPS15, AHS+16, CEWW18, CSN+19, EEB+17, EEK+18, GJM+13, SLB+18, TW18, ZSG+18]. **carpio** [CEWW18]. **Carposina** [KL10]. **Carposinidae** [KL10]. **carps** [WKZ+19]. **Carry** [RH17]. **Carry-over** [RH17]. **Carrying** [CN19, KTM+16, NCK10, BLCPB11, GL10, IFC14, LDG14, SWS16, TT17b, XCL+11, YZ16, ZLZS14, ZZL+19]. **carrying-capacity** [SWS16]. **Cartesian** [HHW11]. **cascade** [BFP+18, CD17, CSFB17, DFW+18, XC14]. **cascaded** [CCL+13, WhFxGZ16]. **cascades** [FAMD+12]. **cascading** [SH18]. **Case** [Ana17, Ano12a, GWHL15, GDDFT16, HBR19, HFSL14, KSSA13, KHJ+19, LLL+10, LYC+15b, MRD+12, SJS+13, WX11, AGQP+14, ABS17, ACM15, AHM+16b, BVC+18, BRV11, BLD10b, BC11, BG11, CMT+11, CVV+13, CZC+15, CRA+11, CBGK15, CWLL15, CL15b, CXL+19, CAMNN16, CGEdM12, CRTS15, CMSPJ11, CBB+10, CWA+15, DLL18, DSW+17, DLD+11, DLvGGNC16, EGMW12, FKH+15, FCZ13, FCH+17, FP17, FCFT16, FBDR17, Fre16, GHWG+14, GZS+18, GDT+14, Gia14, GPA+13, GMTC+17, GS19b, GGTP+17, GB15, HRSKW15, HJ17, HM18b, HYL+17, JMW11, JJYM19, KZR+13, KAC+12a, KAC+12b, KCKdOW12, Kos17, KL12, LDG14, LSH15, LHL+17, LYSW15, LLZ+16, LHL18, LDM15b, LBS+14, LYC+15a, LML17, LMBL12, LGDW12, LB18b, MTZ+10, MM19, MAM+12, MAC14, MRZU14, MDVG+15, MMVAHMC16, MOM+11, Mur13,

MWD+15, mNkGyT+17, NXZ18, NGGFM19, NPP+18, OHS+17, Oga11, OTA16, PLR+13, PHvB+18]. **case** [PMS+17, PPB+18, PWP+19, PBD+17, PWK+17, PLS11, PGGMMA19, RSCS19, SMC11, SSV+12, SK11, SGRAdJ17, SDKE18, SAKB+10, SGP18, SSM+13, SGKR10, TPL+15, THJ+12, TPG14, TAC+14, TOQW11, TVV13, UDNSLCG16, VVH12, VKdW+10, WALCY12, WSW+13, WSSM15, WFN+16, WØ15, YYQ11, YJW15, YLHZ14, YBA+16, ZPZ+15, ZBAY14, ZLY16, ZYFL10, ZFT+10, ZLC13, ZKR+13, ZLF14, ZLF+15, ZZF15, ZLFZ16, ZZJ+16, ZDL+17, ZZLZ14, ZMH19, dSdCF10]. **Case-study** [MRD+12]. **cases** [Flo14, LBGM19]. **Caspian** [SZSV12b]. **Castor** [PGZ+19]. **Catalonia** [GPM+16a]. **catastrophe** [PZM13, WLZC11, WPZ+14, YL17]. **catastrophes** [VEK12]. **catastrophic** [CLCC11, SK15, ZW12]. **catch** [DMH17, LCD+16, MROGVR12, MTGD17, NNST+14, ZBMBDU+17]. **catch-and-release** [LCD+16]. **catch-at-age** [ZBMBDU+17]. **catchability** [BDG+14, KSZW16]. **catches** [CJR+16]. **Catchment** [SMC11, GMP13, HPO+15, KW18, KSSA13, KSG+14, OGOWW16, PTE+12, WFM16]. **catchments** [JNC+11]. **categorization** [CPJ+13, DPV+16]. **categorizing** [VBS14]. **caterpillar** [BFA11]. **catfish** [dABLBAdOR17]. **cations** [NP15]. **CaTMAS** [BMMC21]. **cats** [IN16]. **cattail** [TXM+10]. **cattle** [LCH12, TT17b, WTG+16]. **Causal** [FRP18, Fai10, KdVRdW17, RPA12, SBM+12]. **causality** [KS17a, KS17b]. **cause** [BAAB18, KWGG19]. **cause-effect** [KWGG19]. **caused** [CLCC11, FPO18, HLLO13a, HLLO13b, RCBPMN10, SGWV15, SH18, WSZT10]. **causes** [BCV13, ODK16]. **causing** [CBGK15]. **caution** [Rau11]. **CBM** [ABK+16, HSK17, MK12, PGK+13, SKTG11]. **CBM-CFS3** [ABK+16, HSK17, MK12, PGK+13, SKTG11]. **Cd** [HFSL14]. **CDOM** [UDRA13]. **CDPD** [Ben12]. **CE** [ZSJ15]. **CE-QUAL-W2** [ZSJ15]. **cell** [HB15, KH15]. **cellular** [Cra10, DAF+11, GDT+14, GLI+21, HHL17, MJÁ+12, PD12, YZL12, ZJL+16, ZHLZ17]. **cellulase** [ABAG15]. **cellulose** [ABAG16]. **censored** [WSC+19]. **census** [PC17, PC15]. **Central** [BWRA16, DUASLB+12, FCFT16, FBDR17, YLW+11, BG15, BBL11a, BPWB14, DDBK15, DBG14b, DBG14a, JMW11, KMM+13, LDS14, MLC+16, MJP+12, MK19, PAS+10, RCBPMN10, RR10, CLCC11, CPS+14, GB15, HLZ+18, LLC+21, SKMB11, SK11, SBC+11, TNA+17, TKH17, WGSR19, ZLLC13]. **Centralized** [KBMM15]. **centric** [LD16]. **Centris** [GPA+13]. **centroids** [WFA+13]. **centuries** [Fel12]. **century** [ENC+15, NMS+14, WMF+13]. **Cerastoderma** [RGU+15]. **cereal** [KKBZ17]. **cerevisiae** [PGG14]. **Cerrado** [LBE+18]. **Cerro** [RR10]. **certain** [NXZ18]. **cervicornis** [NGRDTHRL19]. **Cervus** [RR10]. **cessation** [WJ15]. **CFS** [LAD11]. **CFS3** [ABK+16, HSK17, MK12, PGK+13, SKTG11]. **CH** [Vav12, VRL18, GKW+13, HMS+11]. **CH4MOD** [LHZS10]. **Chain** [BWA17, CTMS10, BFP+18, CSF11, CLCC11, JC11b, PSWM+10, Pea15, Qia12, TM12, TVV13, YZL12, FCH+17, KGM12]. **chains** [GLS10a, JLN10, LSP+10, XYTS19, vGKB10]. **challenge** [LJAD17, SS10].

Challenges
[HT16, TSB+18, BMSLC16, Bec10, LMY+11, RHR+15c, SGB10, WHH+18].
chalumnae [CPE13]. **Chamaecyparis** [Oga11]. **chamber** [MDW+12].
chamise [PFSF14]. **chance** [RRJVA13]. **Changbai** [CZC+15]. **Change**
[LWKS10, AW16, ABAG14, ACDC17, AGB+13, ACK+14, AH17, ARV+16,
BUB+12, BTS19, BCTL16, BTB17, BKM+18, BGPJ10, CLH17, CY13,
CWLL15, CJR+16, CSR15, CMGF14, CJM+12, CWJ+13, CDM13, DK17,
DWD19, DWWS15, DPR10, DDR+18, DAF+11, DMR13, DP15, DBP16,
FLX+14, FTK+14, FCG+19, FMS13, FCFT16, FAS+19, FP13, FBKS17,
GLA11, GBG+15, GGZ+16, GAG+12, GCCB18, GPR+13, GLI+21, HHC+13,
HHL17, HV12, HGE+10, HSR+15, HPC13a, HPC13b, JDT+16, KTV+15,
KFvSH15, KBS+15, KPTC14, KPK+17, LLZ+15, LWL+17b, LQW+19, LS10,
LDP14, LVZ+11, LC11, LLZ12, LKAY15, LYL+17, LZZW17, LBC+15, Loe18,
LCDJ+12, MLC+16, MLK+11, MTPC13, MCS+18, MDOJ14, MDKK15,
MRM+17, MCG19, MHC16, MSR+14, MMRS+19, MMMGLN+18, NA11,
Oga11, OJ10, PH18, PD15, PAB+13b, Phi11, PW10b, Pra12, RJG+13,
RVL+18, Rem11]. **change**
[RCSS13, Rin18, RA13, RWvDM15, RBGB16, SvBH+14, SS16, SKMB11,
SKK+13, SBRD10, SJB+16, SSN+18, SDY+15, SS11, SB15, TCW11,
TAT+16b, TNA+17, TZD+15, TT17b, WO14, WNT+13, WMK+13, XZSL17,
YYL13, YHS+11, YZL12, YZC14, YFC+11, YDL+15, YKvWK16, YHJ+17,
ZLLC13, ZLD+19, ZJP+11, dFMdSA18, vDSC+10, vVBHZ11].
change/variability [LC11]. **Changes**
[KHL+16, MLB+16, MMRS+19, PVL+14, ACC+10, ACM15, ADF+17, AH17,
BYR18, BTS19, BPR+11, BCI+17, BAJ+11, CZ11, CWM12, CSL+12,
FAG10, FLY13, Fel12, FG11, FTTV+18, GAP+19, GJÁ+10, GE17, GWK+12,
GKW+13, HTL+14, Hoa11, HPC13a, JDT+17, KKK+19, LDS14, LY16,
LDO+18, LCBNP19, LSJG17, LLT+17, LLC11, MBD+18, MBLC14, MNEG11,
NP18, NMC+14, NMS+14, OGG+16, Oga17, OLG+13, SGAS14, SJGB16,
SBF15, SED15, TAGC+16, VPC11, WGTH16, WKZ+19, WYY+19, WJS+18,
WNT+13, WV12, WJvdL+13, WFM16, XYY+16, XC14, YDD+13, YHK+19].
changing [Ana17, BFKS16, CGLA10, CW11, GHD+19, mGZK+10,
GWK+12, GKW+13, GJK+15, Hei11, KWJH16, LKH+18, LdMS+16,
RJH+10, RBGB16, TB12b, TWS+11, WP14, dSJHG10]. **Changjiang**
[FS14a]. **Changsha** [ZZJ+16]. **Changzhou** [LYSW15, TLL+15]. **channel**
[CZW10, CCL+13, Jag14, MH13]. **Chaoborus** [SKPHW16]. **Chaohu**
[KJH+13, NXZ18]. **Chaos** [MCN16, RE10]. **chaotic** [AAA13].
Characterisation [Mon13]. **Characteristics**
[BS15, BV15, CNI11, DCCS17, GO15b, GLY+15, LBH+15, Lin15a, LYCZ11,
MBW14, RKBG14, RBGB16, TMT+18, YXZ+21, ZLC13, ZLF+15, ZLZ17c].
Characterization [BMN11, Ing10, KCLL14]. **characterized**
[GRB12, Sol19]. **Characterizing**
[BSW18, KHS+19, MTJF11a, TCSG15, ALG16, BGK+16]. **Charadrius**
[GKF+14]. **chart** [DFW+18]. **Cheat** [ZF11]. **cheetah**

[JMdW+10, OMDP11]. **Chemical**
[TA11, AJDS16, CGG+18, EGMW12, FtHvdB+14, HD16, LBW18, Vav12].
chemical-induced [LBW18]. **chemicals**
[GHWG+14, GT14, HFSL14, MPF+14]. **chemistry**
[HKL+11, LGY10, MB14]. **chemostat** [AAA13, CJLV11, F.11, FHC15].
chemostats [CBB19]. **Chesapeake**
[KH11, CN10a, DC10, JX17, KPLS15, MTZ+10]. **chestnut**
[GPTR13, PFP+16, PGGMMA19]. **Chile**
[BCO17, CRQW18, LAEAG12, MNEG11, ROSC15]. **Chilean**
[MTPC13, Bae18]. **chilling** [GLR+19]. **chimeric** [POS+19]. **China**
[LCC+14, NvGZ+16, PCTW17, ZYZ17, AA12, BCC+11, CZC+15, CZ11,
CL15b, CLWH15, CMLY19, DZW+11, DYU+12, DLZ+17, DLL18, DSW+17,
FLY13, FLX+14, FDR+17, FCG+19, FGH+10, FCZ13, GYL+15, GSQ17,
GZS+18, GLS+17, GCL+19, HJ17, HFB+11, HZT+13, HG17, HYL+17,
JWX18, JLZ+18, JJYM19, JC11b, Ju19, KJH+13, LkSXhX17, LLL+10,
LSZC10, LLY+13, LCY+13, LZLC13, LLM+13, LYSW15, LLQ+15, LZZP16,
LWL+17a, LKG+17, LWL+17b, LWTZ18, LHB+18, LZJ+19, LCZ11, LC11,
LCS11, LLZ12, LYC+15b, LML17, LYL+17, LLP17, LP17, LCFD19,
yLWhMhG11, LGDW12, MLW+15, MLB+16, MWY+18, MLH+17, NXZ18,
PHC10, QCLW18, QCB+11, RZF+13, SRXP14, SLW+14, SWC13, SLZ+18,
SAW+11, SDY+15, SM14, SXZ+15, SCG+16, TLL+15, TJYZ11, TQZ12,
TZS+14, WALCY12, WSW+13, WYHC15, WLY+15, WWC+18, WKZ+19,
WYY+19, WJF+11, WZD+14, WZG15, XYTS19, XTLM15, XLS11, XZC+17,
XCL+11, XWW+11, XYCZ13, XQZ+13, YYL13, YWH15, YLY+18, Yan11,
YYQ11, YC11, YLC13, YC13, YZPL16, YDZ+21]. **China** [YM21, YSA+14,
YLW+11, YDL+15, ZFT+10, ZLLZ13, ZLZS14, ZLF14, ZQC15, ZLW+15,
ZLFZ16, ZZJ+16, ZLZ+17a, ZCSL18, ZWA19, ZXD+13, ZZLZ14, ZJP+11].
Chinese [AAW+15, BRHD15, KHL+16, LWL+17a, LPX+12, WKZ+19,
WZD+14, XWC+11, YWY10, YHZ19, ZYFL10]. **Chl** [MMM+16]. **Chlorella**
[YLC+18]. **chlorophyll**
[CS18, KHJ+19, LGY10, MSGG14, TLZ17, WQD+13, ZZT13].
chlorophyll-to-carbon [CS18]. **Choice**
[DKJH13, NA11, HMD+16, HS13b, Loe12, ROG+16, RVB+10, VF16].
choices [ZAW+18]. **Chongqing** [yLWhMhG11]. **choose** [Ken19]. **Choosing**
[POBH10]. **Chozas** [MJB+11a]. **Chronic** [PMP+13, HMPC11].
chronosequences [Phi15]. **chub** [LCC+14]. **chytridiomycosis** [ACCM16].
ciguatera [KTK+15, KDT+17]. **ciguatera-associated** [KDT+17]. **ciliata**
[DSS11]. **cinerea** [ACC+10]. **cinnamomi** [DLvGGNC16]. **circadian**
[FS14b, Hel10]. **circular** [FDR+17]. **circulation**
[GL10, MB14, WLS+10, WLS+11, ZW10]. **cisco** [JFS+12, MYJ+14]. **CISTA**
[Ana17]. **CISTA-A** [Ana17]. **cited** [BS15]. **CiteSpace** [HhLY+19]. **Cities**
[BBA12, YZLX14, BK13, GLC+18, HLW15, YHZ19, ZYFL10, ZF19]. **citizen**
[RCS+19]. **City** [LMY+11, LYP+11, LPA+11, LLZ12, WL13, LYC+15a,
NPP+18, WYY+19, WGD+17]. **Cl** [GVV+16]. **clam** [BBGJ13, DWP16].

Clark [KRE+18, MSM+17]. **class** [BSH+10, HKW+18, RV15, RWFD13, HBA16a, HAA+21]. **CLASS-CTEM** [HBA16a, HAA+21]. **classes** [POBH10]. **classic** [LMT13]. **classical** [BDL+14, RHR+15a]. **classification** [ABL+13, EBL+11, FIG+10, GCIB10, HJWG12, NMS10, SZSV12a, SZSV13, Sil11, ZPNM13]. **classification-then-modelling** [HJWG12]. **classified** [BG11, CKMD14]. **classifier** [RAR15]. **classifiers** [RRvdG18]. **Classifying** [CWA+15]. **Claude** [RHQ+16]. **clay** [GPK+13]. **clear** [MJB+11a]. **clearcutting** [Gat18]. **clever** [SGSR10]. **Climate** [AW16, DBP16, GHST19, GZK+11, KPTC14, MHC16, TNA+17, TZD+15, ABAG14, ACM15, ACDC17, Ana17, AGB+13, ARM+12, ACK+14, BTS19, BCTL16, BGD+16, BKM+18, BFH14, BGG+16b, BSHG16, BBH+17, BGPJ10, BFKS16, CTB+12, CLLB12, CCW+15a, CCW+15b, CY13, CAC+16, CBB19, CSH11, CSH13, CJR+16, CSR15, CW11, CJM+12, CWJ+13, CDM13, DWWS15, DDR+18, DAF+11, DMR13, DP15, DLW+17, DSA+18, EFM+10, FLX+14, FTK+14, FCG+19, FMS13, Fel12, FBA+11, FAS+19, FP13, FBKS17, GAP+19, GHD+19, GLA11, GVGZ+21, GGM+12, GBG+15, GLR+19, mGZK+10, GAG+12, GCCB18, GWK+12, GKW+13, HHC+13, HV12, HlLB12, HGE+10, HSR+15, HPC13a, HPC13b, HRWT12, HBL18, HEJP17, JVY19, JSB+14, JFS+12, JL18, KTV+15, KCF+13, KMF+21, KM12b, KBS+15, KPK+17, KKP+17, LDO+18, LZLC13, LHP16, LWL+17b, LDP14, LC11, LKAY15, LCFD19, Loe14, Loe18]. **climate** [MLC+16, MLK+11, MBD+12, MU17, MTPC13, MCS+18, MGS16, MDKK15, MRM+17, MCG19, MLH+17, MSR+14, MMRS+19, MSM+16, MMMGLN+18, NZL13, NA11, NW18, OJ10, OES16, PH18, PVM12, PVM13, PVBC14, PD15, PW10b, Pra12, RJG+13, RVL+18, RXSK14, Rem11, RCSS13, RKC+15, Rin18, RA13, RWvDM15, RVB+10, RBGB16, SvBH+14, SLSS15, SS16, SKMB11, SKK+13, SBF15, SBRD10, SSN+18, SAKB+10, SB15, TCW11, TT17b, UKI+11, VASL+15, WGT12, WTG+16, WRB+12, WNT+13, WV12, WRSL11, WYS12, WSBP13, WFM16, XC14, YYL13, YFC+11, YKvWK16, YHJ+17, ZLLC13, ZLW+15, ZLD+19, ZJP+11, ZSSR18]. **climate-based** [CLLB12]. **climate-change** [WNT+13]. **climate-driven** [CTB+12, KM12b]. **climate-induced** [ACM15, BGD+16, XC14]. **climate-smart** [DSA+18]. **climate/CO** [FCG+19]. **climates** [AOD+13, KWJH16, LLTQ14, LLTQ15, PAS+10]. **climatic** [AVL+11, CHR+13, CMGF14, FHAG12, FBA+11, GCR18, MDB19, PRP17, PLHG14, SJGB16, SM13, SAKB+10, YDL+15]. **climb** [TOHT14]. **CLM** [SLZ+18]. **CLM-Crop** [SLZ+18]. **clock** [FS14b]. **clocks** [GJK+15, Hel10]. **clonal** [EGA12, HW12, IWW12, MGSB11, OMH12, VMG+12, VAO+17, YGL18]. **close** [RMLTCQ+19]. **Closed** [TM14, BO14, BS13, BDG+14, DLH+14, GLS10a, HCZ+17, HWH+18, LDJZC15]. **closed-loop** [GLS10a, LDJZC15]. **closure** [KCG18, SM13, ZCR16]. **closures** [LMBL12]. **cloud** [Bre12]. **clover** [KAJØ19]. **CLUE** [JDT+17]. **CLUE-S** [JDT+17]. **clues** [RHR+15c]. **Clustering**

[PMRGF10, Con11, Con12, DSK+11, DPLC13, LKDD15, MLMH18, RWS+15]. **clusters** [JSKK15, Pie10a, ZGF14]. **CMCC** [CPS+14]. **CMIP5** [SBF15]. **CO** [CR12b, VRL18, DMB+18, FM10, FM11, KØ13, LTL15, PBO19, SZ14, Ten15a, Ten15b, CGY11, CSH11, CSH13, CN13, CR11, FCG+19, FCZ13, GKW+13, HMS+11, Hol13, KK12b, KMM+13, LKLK15, LHP16, LBdA+19, MKF+11, mNkGyT+17, PD15, QlSeZ+10, RML+15, SLSS15, TIC+14, WRM+11, ZJP+11]. **co-emergy** [LTL15, Ten15a, Ten15b]. **co-evolution** [SZ14]. **co-location** [DMB+18]. **co-occurrence** [FM10, FM11]. **co-product** [KØ13]. **co-registration** [PBO19]. **coal** [BPU11, LCT+17]. **coalition** [Ret12]. **coarse** [GGV10, SHC+15]. **coarse-scale** [GGV10, SHC+15]. **coast** [ADL+10, CRA+11, CGEdM12, DWP11, JVY19, NCK10, OCB+13, ROSC15]. **Coastal** [BH10, RLS11, BPC+17, BPGSS+18, CEWW18, DJS10, DVD+14, FHL+13, GSF+16, HBS+16a, HB10b, HR11, HSCS14, IGBSASSJ16, JDT+16, LSZC10, LLQ+15, LRB12, MDL+10, MMK15, MZLCSZdP11, NvGZ+16, PRHK19, PK14, PICR13, RRHH10, RCST11, RPA12, RBGB16, SFMA15, SSN+18, TBM+14, URUNAM12, WLZC11, WGA+11, WGA+12, WEJ11, ZDG+13, dMLM+17]. **Coco** [FAC+19a]. **cocoa** [ABAA21]. **coconut** [MdMS+19]. **Cocos** [MdMS+19]. **cod** [CAL13, Hei11, IKL13, JNHF18, MM19, PWK+17, SLRC19]. **code** [MEC14, SBC+16a]. **Codium** [GPJL15]. **coefficient** [Qia12]. **Coevolution** [NdA16]. **Coexistence** [MdlP15, ASS14, DJH10, FC12, qHLlZ+16, KK11, LM19, MN12, NSIiT17, RDH+13, RHR+15b, SFM+18, SFHK12, YLL+17]. **coffee** [RVL+18, RJ11, RCC+11, RCG+13, RCGC17]. **cognitive** [BRW+12, CLT+11, MRM16, RFV+12, SGRAdJ17, VSB13, VBS14]. **coherence** [RWH+14]. **Cohort** [Gar17, CH15, GCTS15, Och10]. **cohort-based** [GCTS15]. **Cold** [VCSSC12, ALC19, NW18, RJH+10, SCG+16]. **cold-climate** [NW18]. **cold-region** [ALC19]. **coli** [JA15b, KPSC10, KH15, SFvB10]. **coliforms** [RCCN11]. **COLIWAVE** [SFvB10]. **collaboration** [BME14, GBL+13]. **collaborative** [GHD+19]. **collapse** [ALG16, MM19]. **collar** [ACC11]. **collection** [BAJ+11]. **collections** [PTA+12]. **collective** [LTGD16, NG11]. **Collision** [KHKC+18, ACSR+13]. **collisions** [GJB+11, KHKC+18]. **colobus** [BSCG10]. **Colombia** [AYASR+17, NCMF10, ZPZ+15]. **Colonial** [TSP19, GDW12, MG18, MHG18, SSS+11]. **colonies** [CESC19, KDHC+18]. **colonisation** [FDP+10]. **colonization** [DRS+16, GVGZ+21, MJÁ+12, Str15a, Str15b]. **colonized** [JXL+15]. **colony** [AOW12, AOW13, BHHM10, DDR+14, MG18, MHG18, RBH13, YZL12]. **colony-forming** [MG18, MHG18]. **Color** [LS13, Jør14b, PH18]. **coloration** [LCFD19]. **colouring** [OJ15]. **Columba** [OFK+12]. **Columbia** [WFA10, FBB+18, Gar17, HSTS19, MCS+18, RLS11]. **column** [CW17, GS10, LWGH13, WRMB18]. **combination** [AMM+14, LCP15, MJÁ+12, RDJ19, RRH+19, SHB+11a, YZPL16]. **combinations** [FKK+18]. **Combined** [CN13, DGKSM13, GBG+15, TSN15, UR10, WLC+19, CSF11, FTTV+18,

HL19, KCKdOW12, RM13, SGBD10, VGR+11, WFW+17]. **Combining** [CPE13, FYR+18, HSD+15, KF16, LS10, LOLA13, MPF+14, MPP+15, MMMGLN+18, NF11, SML12, SKM+16, dHR18, IHSM12, MPT+11, RCS+19, ZPNM13]. **come** [CEWW18]. **Comment** [GCIB10, Par10, Pat10, Ula10]. **Comments** [GORJ12, NMS10, Och10, WM14, RHD+16]. **commercial** [CMCASS12, HD16, JDP+12, MTGD17, WPZ+11]. **Common** [CPS15, Mar17, MTA19, AW15, AHS+16, BCC+14, ODK16, PMH17, PKG16, SZ14, SDEP18, LMY+11]. **commonly** [Löp11]. **commonness** [CWA+15]. **Communicating** [CBC+16]. **communities** [ABC+14, ADJ+17, CVS+13, DJH10, FAG10, FM10, For18a, FTTV+18, GGZ14, GCL+19, KCG18, KR16, LM13, LMSK12, LG12, LS18, LCR12, MSM+17, MRR+14, MBA+19, NJM11, OMH12, OCB+13, PES19, PL10b, PCZ+16, RPM13, RSP+17, SDKE18, TDH12, VG19, WJ15, ZLFI11, ZYKS15]. **Community** [HW12, LKDD15, SYL+13, SJB+16, TGKSJ18, Agu11, BND19, CRBC11, CHR+13, CZCL18, Con14, CSFR15, CGM+14, DA19, EAB11, FGPR10, Fuj16, GGZ+16, GDTP13, GRB12, GCW+16, GPM16c, HLL+19, HKG+17, IBD+19, KvOP10, KMKL19, KNM+10, LY16, LS18, LCP14, LCP15, MGGLBIBD13, MLMFN+15, MDJ+11, MJL+13, MJL+14, MYHN17, NGL13, PSB+17, PES19, ROC+13, SAR11, SRV+12, SDKE18, SMG+12, SGH16, SSM+13, SMLH+11, TKW17, wTA12, TM12, Vav10, VJR+16, WR12, WP14, XZZ+13, XTPT11]. **Community-level** [HW12, CHR+13]. **Comparative** [BRPK14, MROGVR12, OBC+21, RBM+17, WPB14, Ano12t, FE14b, FKK+18, KCF+13, LYCZ13, MBD+18, OCB+13, YHZ19]. **compare** [PWBG16]. **Comparing** [IHSM12, CRD+16, CKMD14, DCZ+15, DSBS15, GPH17, GSSM13, HMS+10, LBD10, LLT+14, SVD+13, THC18, TM14, TBM+14, WB14, VBS14, YBA+16]. **Comparison** [AKvO+10, ALC19, BND19, BBH+17, CBB+10, HJWG12, HKVR13, KHKC+18, KPS19, LTL+13, MBD+12, PES19, RvKM10, SFR+17, VRA+17, WBS13, ZLF+11, ZJM+11, ZZFH15, BDL+14, FCV+12, GGV11, HHD12, HB14, HKP10, IPSH14, MDL+10, MRES17, OLG+13, PSWW11, SBVA+13, UFK+10, ZPZ+15]. **comparisons** [ZLG16]. **Compartment** [WMW+12, CHvdW+10, WPB14]. **Compartment-based** [WMW+12]. **compartmentalised** [Mur13]. **compensate** [CJM+12]. **compensation** [LMDG14, MTL+10, Rai13]. **compensatory** [TBJ+15, VEK12]. **competing** [ABC+14, BYR18, BPM+15, CN10b, SRV+12, SFHK12, YHW19]. **Competition** [BRF+11, MYHN17, NYH15, BM16, BRMW18, BMCG12, BEBA19, BKB10, BvBB10, BLAV18, BPN12, Che10, EGA12, FMW+19, FC12, For18b, GvdWBS11, GGSP14, GRYM11, KSM+18, LV17, LAK+21, LLH+13, MSG+13, MPR13, MdlP15, MG18, MHG18, OFK+12, PLB16, PDG+14, RW17, Rin18, RE10, SFM+18, wTA12, TYEH10, UDP17, VLF+17, YLC+18, dVLS11]. **competitive** [CLMA19, CRA+11, GO15b, HBL18, KSS11, PGZ+19, PL10b,

RHS+15, RHD+16, ŠK14, ZW11]. **competitively** [VBPY11]. **competitiveness** [HGE+10, KKBZ17]. **competitor** [MdlP15]. **competitors** [XCG+16]. **complacency** [Pér18]. **Complementarity** [CPS+19]. **complementary** [WSS+16, GAB12]. **complementation** [MGB13]. **complete** [HSHF+13, ZSKI17]. **completely** [BCJ+12]. **Complex** [DSW+17, FNR11, KGYG15, AD18, AOD+13, BAB+16, Ban11, BS17, CBC+16, CPS+14, CGdCCPCPM14, DWP11, FBdP+16, Gar17, HCP10, IT17, KPM+14, KPS17, LAD11, LS10, LS13, LDB14, LCDJ+12, LM16, MTJF11a, MH10, ROG+16, SWGC16, VASH+16, WJL14, WLH+10, YYL13, YZ16, YZ18, YXZ+21, ZLF+11]. **Complexity** [AHM+16b, LVPF15, AA12, Ano17a, BS16a, DG16, GCA16, LMSK12, Mat17, MU10, MAMNL+15, Mur12, NYIH17, Nie16, PdM11, PMBB+16, SA13, VFB19, WHH+18, ZYKS15]. **Compliance** [JZCL14]. **component** [BSH+10, GKKW10]. **components** [BDTV11, GGVB11, Löp11, MGW+13, SYL+13, WAS+16]. **composite** [DHHB15]. **composition** [Ant14, CTP+17, GLRT16, Pen11, SGH16]. **compositional** [GGZ14, MWML13a, VPC11]. **compositions** [MAC14]. **composting** [BT16]. **compound** [HLS+14, WSL17, ZHC+16]. **compounds** [CLL14, LKKK+14]. **Comprehensive** [SAI10, ZLC13, BRM+14, KFvSH15, VVA+15, WHH+18, ZWG+17]. **Computation** [vdVBJS15, CDK+17, CT12, KPM+14, LJLC15, LT15, ROC+13, ZRC+15]. **Computational** [FCA18, DHC14, DWNN10, DBP16, GB16c, SWZ+12]. **computationally** [AADA14, CS18, WHC+13]. **compute** [DB15]. **Computer** [LMSK12, AS11, BRW+12, RGHS11, YHS+11, YHK+19]. **Computing** [DBSA16, CMSPJ11, MGSB11, ZB15]. **concentration** [ASL13, BLOJ+19, CGG+18, CN13, PD15]. **Concentrations** [GVV+16, BGPJ10, CW17, FE14b, JNC+11, KPSC10, MM16, NW18, ZJM+13]. **concept** [GDBB19, JZCL14, LJAD17, MDKK15]. **concepts** [HM17, SFM+18, VMG+12, WAM13]. **Conceptual** [Ana17, EEFE+11, GLC+18, GGZ14, GJK+15, KPT11, WS15]. **concerning** [OGOWW16]. **concolor** [CGV+15]. **Concurrent** [CH12, GQRC+17]. **condition** [PSG19, TGB+17]. **conditional** [Loe12]. **Conditions** [San19, AHS14, AVL+11, BMN11, BDG+14, CVV+13, CHR+13, CTNH13, CCSF11, CN13, CBA10, GSPSP15, GWK+12, GKW+13, GJK+15, HWE+18, JL18, KD13, LMSK12, LKH+18, LCY+13, LWY+11, yLWhMhG11, MBSW12, MTPC13, MTL+10, MKTO19, RDR+17, RP11, SHT+21, SLB14, Tie16, UKI+11, ZWW+18, dBGS+14]. **conductance** [GZK+11, HSD+15, MEC14]. **conductivities** [LPD14]. **cone** [CMT+11]. **cones** [YY13]. **Conference** [Ano13u, LMY+11, LYP+11, LPA+11, WTC+18]. **configuration** [HSLC+19]. **Configurational** [BCI+17]. **configurations** [vSGR16]. **Configuring** [LM16]. **conflict** [CWM12, FSM+19a]. **conflicting** [KNU+15]. **conflicts** [DSBM+18, MHS+17, TAT+16b]. **confluences** [JD18]. **congeneric** [DZS12]. **conger** [TSN15]. **conifer** [HAA+21]. **coniferous**

[FPG+10, GZK+11, MPL+16, OKS+11]. **conifers** [KHS+19]. **Conjoint** [GZS+18]. **conjugation** [CJC11]. **Connected** [KK11, BCV13]. **connection** [WSZT10]. **Connectivity** [LYC+15b, ZZA+18, AMM+14, BH13b, BJJ12, BS10a, CXW19, CLDRJ18, CD15, CL12b, DMDJ13, DRS+16, JM15, KBB+11, KB18, KNPH+17, LML17, MHG18, MRM+17, PTML14, RBRK16, SSBJ12, SDEP18, TMPF18, TLW+14, TDF+19, URR+17, VPC+14, YJW15, dHR18, vSGR16]. **conquer** [LM16]. **Consequence** [RCP17]. **Consequences** [Ash10, HKM+18, NBSGW19, YMCV21, BGGL16, BWML15, CLDRJ18, GSF+16, GV15, LJ15a, LCD+16, MSCM18, MAP+13, MCPB15, PTL14, RHR+15b, RHS+15, RHD+16, RDV+17, SBCB13, SSS+11, TGKSJ18]. **Conservation** [NCLP10, AR11, ASP+15, ABC+17, BFPR16, BEPC15, BDWP16, BM10, BvHR+15, Cho13, CB19, CTC+18, DUASLB+12, DA17, DS12, DLW+17, DG16, EMH10, ESP+17, FN18, Flo18, FLA19, GWR11, GFW+17, GBL+13, HCK18, HCS+10, HAOS17, HBT+18, KBB+11, LV17, LDM15a, LM12, LA11, LWNG13, LG17, LAEAG12, MFB17, MRP14, OOFVBC16, PK12, PSM+12, RMR+16, SDT10, TPG14, WSS+16, WhFxGZ16, ZFT+10]. **consider** [WAM13]. **consideration** [HGE+10, Oga18, PGS16]. **considerations** [EEFE+11, VGR+11]. **considered** [DLL18, Kos17]. **Considering** [XYY+16, LCFD19, TLLX19, ZML+12]. **considers** [ECO+14]. **Consistency** [GEPCB13]. **conspecific** [FMW+19, TMPF18]. **Constancy** [SW19]. **constant** [CEC10, WB14]. **constituent** [FL11]. **Constraining** [HSK17, PSB+17, LHR+15, RKL+15]. **constraint** [Log13a]. **Constraints** [OCD+13, PSJ11, hCjHMW18, DDR+18, ELPK12, FP17, GDBB19, LCR12, SHB11b, TCSG15, TSSL11]. **construct** [CN19]. **constructal** [KOBK13]. **Constructed** [NXZ18, HZT+13, LL18b, MB17, OSS13, PLFO+12, SWZ+13]. **Constructing** [SSKJ18]. **Construction** [WPZ+14, ZWW+18, KFDL+19, LYC+15a, PFSF14, RZF+13]. **Consumer** [dVLS11, CD16, CN18, KMS+12, KMS+13]. **consumer-resource** [CD16, CN18, KMS+12, KMS+13]. **Consumption** [Ben12, CD16, BWC17, FCZ13, FE14a, LLW+15, LYCU14, MRM16, XHC+15]. **contact** [HMPC11, SM10, TMPF18, WGD+17]. **contagious** [SM10, SM12]. **contaminant** [CZW10, GPD+13, LSR16, MGCL17, ZC11, ZWJ+12]. **contaminants** [BFP+18]. **contaminated** [TPL+15]. **contamination** [TWL11, ZLLZ13]. **contemporary** [CF14]. **content** [LKP13]. **conterminous** [LXS+16, SBF15]. **context** [Ash10, AFC12, CY13, CPJ+13, GMC+19, GEPCB13, KK16, LPT+18, LKAY15, MMRS+19, SSQ+10, SLD+19, TFH12, ZLLC13]. **contiguous** [SHC+15]. **Continent** [LLZ+16]. **continental** [BlMG+11, CQS15, GC14, HBSF16, LBSB+14, OC15, PFA+16, RAF17, ZRCNLI+15]. **continental-scale** [RAF17]. **continual** [BP15]. **Continuous** [BKV17, Sto10, BP16, BP17, BP19, CGAB17, HB13, KMMS17, MPR13, SDSH15, ZFG13]. **continuous-time** [CGAB17, HB13]. **continuously** [GS19a]. **continuum**

[PES19]. **contracts** [LA11]. **contrasted** [BMCG12]. **Contrasting** [BBHP13, CVV+13, GBP+10, KYvdPS14, LBD10, PICR13]. **contribute** [DSJ19, EKB18, XM13]. **contributes** [YHW19]. **Contribution** [BPT+19, TWP+14, HHL17, IPSH14, JAH+10, RHQ+16, ZJL+14]. **Contributions** [BCO17, LW17, Fat14, Fis21, GDTP13, GSSM13, LNB17]. **Control** [PF12, AD16, AdMC+13, BCP15, BJK+16, BJR16, BMP+19, BNP10, CTB+12, CHvdW+10, CTC+18, CESC19, ETG+18, EEB+17, FSM19b, GLS10a, GWHL15, GHS+10, GDW12, JX15, JWLS17, LDM15a, LBR+17, LDM15b, LCAJGFNS14, LZB17, MBLC14, MWY+18, MS14, MLK17, Mur13, MS16, MFI13, NvGZ+16, PHvB+18, PKB+18, PTML14, PFP+16, Pec12, PvVC13, PMBB+16, PME+16, RJ11, RFV+12, RPA12, STSA10, SRXP14, TV15, WPG15, WSW+13, WPB14, YLW14, YWA+17, YRGH16, dÁSMRT+19]. **controlled** [LZ10, MKF+11, RPGSCF16, WR13b]. **controlling** [CRAP13, HJS+16, MS14, SM10]. **Controls** [PPO12, CHVH13, DBG14a, GZK+11, HBA16b, HAA+21, IN16, JSB+14, KGYG15, LZLC13, LHP16]. **controversial** [ACE+17]. **convection** [SSW+18]. **convection-dispersion** [SSW+18]. **conventional** [SBC13]. **Convergence** [Abe15, KA17, WR18, PMH17]. **Conversion** [ZZLZ14]. **Converting** [SBC13]. **Convolution** [CC14]. **cool** [FBA+11]. **Cooperation** [BSC+15b, BEBA19, MR10]. **cooperative** [TLP17]. **coordinates** [HHW11]. **copepod** [JSH15, RPM13]. **copepods** [BVJE18, DJMBD+13]. **Coping** [LPF11]. **copper** [BRHD15, KSM+18, RCST11]. **coppice** [PGGMMA19]. **Coquito** [ZPZ+15]. **Coral** [LBE+17, ABAG14, BMR+18, BPN12, CCCP17, CTMS10, GBP+16, GRYM11, GBR13b, HJ10b, JCKG15, KvOP10, KR16, MTJF11a, MTJF11b, MB14, MATS14, SM13, wTA12, VSF10, YMCV21, ZLFI11, MLAT+18]. **coralline** [BPN12]. **Corallium** [GBP+16]. **corals** [ENM11, TGM+21, YSB11]. **Corbicula** [GCDA16, HFH+19]. **cordgrass** [CZCL18]. **core** [BVGR+17, VR12, DLH+14]. **Coregonus** [MYJ+14, VVH12]. **cork** [ABC+17]. **Corn** [MR17, BB10, LYD+17, MBD+12, Tat16a, YC13]. **Corophium** [GCC+10]. **Correct** [GMS11]. **correlated** [HM12]. **Correlating** [LML17]. **correlation** [LCM11]. **Correlations** [WFA10]. **correlative** [IHSM12]. **corridor** [LLL+10]. **corridors** [DPBK10, DDBK15, DFK+11, RH15, SGDP19, VPC+14]. **Corrigendum** [ABAG16, BMF+11a, CCW+15a, Con12, CR12b, DYMYGO19a, EH19, HM19, HLLO13a, KS17a, mLcLJ16, Lin16, MJL+14, SMT19b, Str15a, WGA+12, WLS+11, ZLJM17b]. **Corylus** [BOF+16]. **Cosmic** [CCC11, JC11a]. **CoSMo** [Con14]. **cost** [CEWW18, CSF11, CMD12, CPAG15, LLL+10]. **cost-effective** [CPAG15]. **cost/benefit** [CMD12]. **Costa** [FAC+19a]. **costal** [GSJ+10]. **costs** [BMU10, BHPF14, EZ14, LZB17, vDHH+13]. **Cotter** [SMC11]. **Cotton** [LBC14, AS11, FGH+10, PVB16, ZML+12]. **Cottus** [KDMPC10]. **Cotylorhiza** [RPA12]. **cougar** [Gli14]. **cougars** [LN11, LN16]. **Could**

[PLS+16, FMBD15]. **count** [DAP18, FDP+10, ZJB19]. **counterpart** [PCB11]. **countries** [KBMM15, SAKB+10, ZWG+17]. **County** [GPM+16a, YLW+11, ZZLZ14]. **Coupled** [CTMS10, AHM+16a, An12, ALC12, CAL13, CSS+17, DJT+19, FRM+19, GGZ+16, GHS+10, GCM+13, HBA16a, HBA16b, HG17, Kei12, KCB+17, KVS17, KMS+12, KMS+13, LZZ+14, LB18a, MSGG14, PD15, PHP15, RBGB16, WALCY12, WR18, YY11, vSGR16]. **Coupling** [GHWG+14, IFC14, KSAS12, KWGW19, LKLK15, MLG18a, MUP+13, PRHH13, PD12, YDZ+21, AL16, CCL14, CKS+17, GS10, HPRNP12, LDS14, Nak17, NP18, TVT12, TZS+14, YLL+12, ZWG+17, MHG18]. **CoupModel** [HJS+16]. **course** [GBB+11, PF18, WJK11]. **covariance** [WBC+12]. **Cover** [Ano17m, Ano17n, Ano17o, Ano17p, Ano17q, Ano17e, Ano17f, Ano17g, Ano17h, Ano17i, Ano17j, Ano17k, Ano17l, Ano18x, ADF+17, BFKS16, CKMD14, DK17, FLY13, FCFT16, FC11, Jør14a, LLZ+16, LWL+17b, LDP14, LVZ+11, LCDJ+12, TSB+18, XLR11, dFMdSA18, dJGM+18]. **Coverage** [LCAJGFNS14, FBDZ12]. **cow** [GBR+13a, GBW+15]. **cowberry** [LM19, Log19a]. **cows** [Mat17]. **CQESTR** [GE17]. **crab** [MTZ+10, PPDF14]. **crafting** [RIMPBT19]. **Crassostrea** [GBB+11, LLC+17]. **crater** [IBD+19]. **crayfish** [MJB+11a, MJK+17, ZLY16]. **CRC** [Jör11a]. **creaons** [AG14]. **creates** [WYS12]. **Creating** [LF11, HPC13a]. **creator** [KKBZ17]. **credit** [OE12]. **Creek** [NFU19]. **Crepidula** [MG18, MHG18]. **crickets** [BG11]. **crisis** [BU11b, SS10, YL17]. **criteria** [MDG10, RLB+12, SHX+12, VFFP16, ZWW+18]. **criterion** [MU10, ZZT13]. **Critical** [SEHD18, Bae18, Flo14, JSL+10, NKSA13, PMBM11, RBRK16, Sci11b, SWZ+12, SA16, SW15, SB15, XYTS19, ZSKI17]. **critically** [HBT+18, MFB17]. **critique** [HBT+18, Pat10, PGW19]. **croaker** [DMR13]. **Crocosphaera** [GRD+14]. **crop** [AVL+11, AWL+13, BPM+17, CLLB12, CC14, CB19, CDT10, Con14, CBA16, DBJ13, FYWA12, GDT+14, GCCB18, GCK+15, GBP+10, GLS+17, HGE+10, KCLL14, LRM+14, LWKS10, LZZ+14, LBC14, MBLC14, MGB13, MBA+19, MJGC13, MWD+15, Nei11, NBK+11, Och10, OQH+13, PHvB+18, PRP17, Pie10b, Pie10a, PANL11, PVB16, SX11, SMS+13, SBRD10, Tat16a, TAT+16b, THBF+17, YWH15, YDD+13, ZCS13, ZTL+17, SLZ+18]. **crop-disease** [PHvB+18]. **crop-wild** [GDT+14]. **cropland** [LLT+14, LLZ+16, LLT+17, QlSeZ+10]. **croplands** [KHW+17]. **cropped** [GNB+14]. **cropping** [HGSJ15, KKBZ17, SVL12, WTL17]. **crops** [HQF+17, MCWG21, STSA10, TWL11]. **Cross** [LBR16, Pie10a, ZLG16, LJ10, MAMNL+15, SLB+18, TZS+14]. **cross-farm** [LJ10]. **Cross-lake** [ZLG16]. **Cross-row** [Pie10a]. **Cross-scale** [LBR16, TZS+14]. **cross-temporal** [MAMNL+15]. **cross-wavelet** [SLB+18]. **Crossing** [dS18, DTS+12]. **Crossing-effect** [dS18]. **crossings** [PGATS13]. **Crow** [KRE+18]. **Crown** [UDP17, BLB+17, VALC12, CDK+17]. **Crown-of-Thorns** [CDK+17]. **crowned** [BFJZ+11]. **crowns**

[CLBSG11, EKB18]. **crucial** [BBJV+11]. **crude** [BPU11]. **crust** [SBDA16]. **Crustacean** [COK+11]. **crustal** [DB15]. **crustose** [BPN12]. **cryptic** [NBSGW19]. **crystallinus** [SKPHW16]. **CSR** [BBL11b]. **CTEM** [HBA16a, HAA+21]. **ctenophores** [AALP18]. **cuckoo** [JHHS17]. **Cucurbita** [GLSA+11]. **Cuenca** [HGBA+13]. **Culex** [JSB+14]. **cultivar** [ZBS14]. **cultivars** [KYvdPS14]. **cultivating** [HWH+18]. **cultivation** [BAP18, FPO18, GCR18, MJF19, OQH+13]. **cultural** [MBLC14]. **culturally** [GWR11]. **culture** [Abe10, Abe13, CHCC15, RRHH10, ZZL+19]. **culvert** [FN18]. **Cumulative** [TBJ+15, CSS+16, Hoa11, LYSW15, SHX+12, TdS12, XPY+14, YKCN10]. **cunicularia** [EGMW12]. **Cunninghamia** [WZD+14, ZXD+13]. **Current** [SBC13, EEFE+11, MNK+21, MK19, SvBH+14, SLSS15, SA16, ZLFI11, ZZZW15, GEZ+13, HKM+18, KKH+17, KEM+16, MKL14, RBGB16]. **current-driven** [ZLFI11]. **currents** [HRWT12, MLW+15]. **curve** [CBCB17, CL10, CLW+19, MLK+11]. **curves** [HM10]. **cusk** [CRQW18]. **cusk-eel** [CRQW18]. **customary** [GWR11]. **cutaneous** [RMP+18]. **cutting** [CAC+16]. **cyanobacteria** [CRB16, Hel10, HB10b, HB10a, MHC16, ZRC+15]. **cyanobacterial** [SAI10, SLW+14]. **cyanobacterium** [GRD+14, GMvV17, LZYH19]. **cybernetics** [Nie16]. **Cycle** [UAB+11, Abe13, BH13b, BFM11, BRKP16, DLL+19, DLZ+17, DLD+11, DRS+16, GRRU15, qHlZ+16, HN14, HSHF+13, HPGM18, HB10a, HB15, HBB15, JWX18, KK12b, KBMM15, LJB12, MJP+12, MBRR13, MRG13b, Nak17, NP18, PMH17, RSCS19, RPGSCF16, TPO+18, WGE+19, Wol11, ZHCX15, JMdW+10]. **cycles** [AL16, BB10, CLL14, DCMK11, FS14b, HPG+10, KVS17, PP16, TNTH11, VWTA16, WR18, ZPZ+15, ZLLC13]. **Cycling** [ZB15, CT11, CGM+14, HB14, JN15b, JDGJ13, KS18, KWS+13, KJMA11, LLZ+15, LZL+18, MJC+11, SSF14, Til21, TRE+12, WB17, WJF+11]. **cyclops** [KR14]. **cygnus** [LMBL12]. **cypress** [UKI+11, Oga11]. **Cyprinus** [CEWW18]. **Cystoseira** [FAC+19b]. **Czech** [HV15].

D [CPS+14, Con12, IFC14, Jør14b, MBUM12, NGR+11, VLF+17, AHNK13, BVGR+17, BCB+11, Con11, DBP16, KPS17, LMT13, MSGG14, MRB14, MBUM12, MJGC13, PMM11, SRHL11, SMH16]. **D-CMCC** [CPS+14]. **D.** [Pat10]. **daily** [BSC+15a, Sim11, SPG11, ZZB+18]. **dairy** [GBR+13a, GBW+15, SFvB10]. **Dajiuhu** [HZT+13]. **Dall** [FYR+18]. **dam** [BCTL16, FN18, ZVS18]. **damage** [BPS+11, BPC+17, CBP+17, DYMYGO19a, DYMYGO19b, KH15, LJBS12, SRT16]. **Dams** [BAAB18, dSGGBW12]. **Dana** [MRCW10]. **Danajon** [BWRA16]. **Danaus** [GPZB18]. **dangers** [BS16a]. **Danio** [HTL+14, KNU+15, LLC11]. **Danish** [JN15b, KRCVF16, KvTL+18, NNST+14, WØ15]. **Daoxiang** [WX11]. **Daphnia** [ECO+14, PLS+10]. **Daphnia-algal** [PLS+10]. **daphnid** [LHO+16]. **daphnid-algae** [LHO+16]. **Darjeeling** [RBRK16, SGP18]. **dark** [FS14b]. **darter** [MGWW13]. **Darwin** [Kat11]. **Data** [CC14, KKI+14,

LST15, AHS+17, AB10, AB13, ASV19, ACC11, BLFS18, BG19, BMSLC16, BBL+17, BNC+18, BGMJ+12, BOW+12, BAJ+11, CGG+18, CGAB17, CKMD14, CMEP15, CMV+16, CLNN14, CGP12, DSK+11, DOB+15, DDB+12, DAP18, FDP+10, FKH+15, FN15, FBH+14, FYWA12, FBA+11, GCA16, GCIB10, HMD+16, HPJ15, HVL+19, HSK17, HMS+11, HS11, HCL+14, HlLB12, HCP10, HJ10b, HRWT12, HhLY+19, JZ12, JG10, JSCS19, JJYM19, JBCÑ11, JGX13, JAKJ10, KMRW16, KSZW16, KKL+12, KHS+19, KNPH+17, KPS19, LJLC15, LLB+19, LBSB+14, LPF11, LBH+15, LBE+13, LH15, LF11, LCL+13, LJ15c, LVZ+11, LW17, MAO19, MRCW10, MHTC15, MU17, MCBM12, MVC+17, MAC14, dMHGA10, MK12, MRWN19, MSR+14, MAMNL+15, MDV+12, MMMGLN+18, MYJ+14, PMBM11, PJ17, Pat14b, Pér18, PGZ+19, PÓF+18, Pog11, PSS16, ROG+16, RHZ+18]. **data** [RWVK11, RUSL19, RMHE15, RCBPMN10, RRvdG18, RKNO17, RPGSCF16, RCS+19, RWP11, SZV14, SHT+21, SMI+19, SHM+14, SVH+19, SQWS19, SSKJ18, SFL+19, SHB11b, SCG+13, SP12, TRP12, Tul14, TAGC+16, VRM+10, VALC12, VB10, WB10, WTWS19, WLC+19, WBG+14, WC13c, XGH+17, YAGMM+14, YSB11, ZSS17, ZLZ+17a, ZKSF17, ZJB19]. **data-derived** [LF11]. **data-driven** [DDB+12, MDV+12, MMMGLN+18, SZV14, SQWS19]. **data-poor** [DOB+15, RKNO17]. **database** [ARTBB14, BSC+15b, HhLY+19]. **dataset** [CRD+16, TNHB12]. **datasets** [GCDA16, SBC13, Tul14]. **dates** [LCFD19]. **davidii** [PKD11]. **Day** [MSB+17]. **DAYCENT** [COPP13, RKL+15]. **DE-CA** [dWcWbZ15]. **de-watered** [CCL+13]. **deal** [WHH+18]. **Dealing** [GRRU15, MMCBP19, WRM+11]. **DeAngelis** [GB16b]. **death** [JDZC14]. **Deaths** [VSF10]. **DEB** [GMvV17]. **debris** [HHUD14, RWFD13]. **debt** [Lab11]. **decadal** [GVGZ+21, KD13, SBC+11, WJvdL+13]. **decades** [GDC+19, SW19, ZMS19]. **decay** [HSK17, RWFD13]. **December** [Ano10v, Ano11-35, Ano14f, Ano15b, Ano16q, Ano16m, Ano17x, Ano17-37, Ano18-34, Ano18-48, Ano19a, Ano19e, Ano12-36, Ano13-36]. **deciduous** [CPS+14, SMSAN+14, WJvdL+13]. **decimate** [POS+19]. **Decision** [Gia14, LKAL+13, BGG16a, BFNH14, BPT+19, CVV+13, CGL15, DWD19, DTS+12, EAJG16, GCCJ12, GAF+14, KRE+18, KK15a, LWKS10, LAEAG12, NCLP10, ST13, SHX+12, SWGC16, TAT+16b, WC13c, vGKB10]. **decision-making** [CGL15, EAJG16, GCCJ12, NCLP10, SHX+12, SWGC16, WC13c]. **decisions** [An12, ALC12, CAMNN16, JTM+17, SM11, VSPHS15, WALCY12, ZKR+13]. **declaring** [ALG16]. **decline** [ENC+15, KPTC14, MKTO19, MHRB19, MDVG+15, NJCF11, Oga18, ODK16]. **declines** [HKM+18]. **decomposer** [Kei12]. **decomposing** [Hoa11, LKKK+14]. **decomposition** [BdCS11, DFRT14, GZVU14, HKVR13, Lec17, LCY+13, LW14, LKP13, MBG+10, SKTG11, TLRL11, ZTJ+10, ZZY+13, ZTL+17, GAC+14]. **Deconstructing** [GB16c]. **Decrease** [MJB+11a, GAG+12]. **decreased** [HLZ+18, RGH+13]. **decreases** [Mat13, RWVK11]. **Decreasing** [Flo18, LDP14, PLS+10]. **dedicated** [GB16b]. **deep**

[FRM+19, FRP18, GB16a, KJVL+17, LZF+14, MSGG14, RIMPBT19, SAI10]. **Deepwater** [BPC+17, CBP+17]. **deer** [HMPC11, LVLS14, LAEAG12, MWML13b, PMP+13, RFV+12, WTG+16, WR13b]. **defence** [JL18]. **defense** [LB15]. **deficit** [KS17a, KS17b]. **define** [MCB14]. **defined** [CDL+11, MMD+17]. **Defining** [JDT+16]. **definition** [MWB+10, YqWB+15]. **Definitions** [RRH+19]. **defoliation** [BPS+11, CAC+16]. **deforestation** [dSD14, dSD18]. **defragmenting** [MAB19]. **degradation** [BVGR+17, CBGK15, DFW+18, HBS16b, MMMGLN+18, OES16, TAGC+16, ZC11]. **degraded** [HRSKW15]. **degree** [CRBC11, LS13]. **Degrees** [RRH+19, CWA+15]. **Deiva** [VB10]. **del** [FAC+19a]. **Delaware** [FMLM11]. **delay** [BBB+17, ZW12]. **delayed** [LL17, NYF16]. **delimitation** [SS10]. **Delineating** [DNFG18, GFW+17, VR12]. **delineatus** [BGC10]. **Delphinapterus** [MDVG+15]. **Delta** [LMCA+12, XLS11, XCL+11, LJ15c, AH17, MLS+11, TJYZ11, Yan11]. **deltaic** [DJS10]. **demand** [AS14, MH13, SGAS14]. **demand-of-energy** [AS14]. **demersal** [NMA+19, RMR+16]. **DemGenTrout** [FB13]. **demo** [PP12]. **demo-genetic** [PP12]. **demogenetic** [BAAB18, NMT+19]. **demogenetics** [FB13]. **Demographic** [CMA+13, ECO+14, Fuj16, LJ15b, NBSGW19, VSF10]. **demography** [TNTH11]. **demonstrated** [CRO13, HD14]. **demonstrates** [WJvdL+13]. **Demonstration** [FSB13, SSN+18]. **DEMs** [MLG+18b]. **dendritic** [PW10a]. **dendrobatidis** [ACCM16]. **Dendroctonus** [PB14]. **dengue** [EPA+10a, JVY19, MD16, ZYXT18]. **denitrification** [IMW+17, KGYG15, SGKR10, GAC+14]. **Denmark** [CVPR+16]. **dens** [LPSC16]. **densities** [BM11]. **Density** [KUI+18, LB17, Rai13, WUB15, AGJ+12, Agu11, ACDC17, AOW12, AOW13, BSW18, BM11, BLB+17, CVS+13, CGS+17, FT16, HMPC11, HFSL14, HKP10, IWW12, JSB+14, JDZC14, KSS11, KSM+18, Kos17, KUK11, LSR13, MLW+15, MHTC15, MIC14, MCA18, NZL13, NYF16, PC15, PKMH16, PB14, RHO11, RW10, SC18, SK10, SSQ+10, SED15, SU15, SKPHW16, SW15, TMPF18, TQZ12, WGTH16, WFA+13, YZ16, ZSSR18]. **density-based** [BLB+17]. **density-dependence** [ZSSR18]. **Density-dependent** [KUI+18, WUB15, HFSL14, HKP10, JSB+14, MIC14, PKMH16, PB14, RHO11, RW10, SU15, SKPHW16]. **density-independent** [SK10]. **depend** [MPG18, RCSS13]. **Dependence** [FSB13, AGJ+12, ABB+14, BSW18, BPN12, CGdCCPCPM14, MCA18, Nak17, QCLW18, SC18, ZSSR18]. **dependencies** [Ju19, PGS16]. **dependent** [BEPC15, DFF17, FC11, FML+17, GHH+15, HFSL14, HD16, HKP10, Jen12, JSB+14, KSS11, KUI+18, KDMPC10, KMS+12, KMS+13, LDB14, MBBA17, MSCM18, MIC14, NYF16, PKMH16, PB14, PDG+14, Rai13, RHO11, RW10, SED15, SBA+13, SU15, SKPHW16, WBC+12, WUB15, WCG+11, YL18]. **depending** [BDG+14]. **depends** [HBL18, Log19b]. **depensation** [CAL13]. **depleted** [BWML15, ZCR16]. **depletion** [BS13, BKN21]. **deployment**

[JMW11]. **deposition** [CL10, GBG+15, LY16, TRE+12]. **depression** [LBW18, YY13]. **depth** [MFS18, NMA+19, PBFS14, WFN+16]. **depth-based** [NMA+19]. **depth-resolved** [MFS18]. **Derivation** [HLL+19, WSSM15]. **derived** [AK17, GLC+15, HJS+16, LF11, MAO19, MHMRAHHS19, NMdR16, PLR+13, SBVA+13, ZJL+14]. **Deriving** [LSS+15, SHBG10, SWGC16]. **describe** [AMF12, DFF17, GMvV17, MHMRAHHS19, MCPB13, RSCS19, TF13, WXB10]. **described** [BO14]. **Describing** [BC12, YL18, FPG11, TMC+16, VRL18]. **Description** [KSAS12, SM13, AHS14, BP17, BKB10, GBR+13a, IMW+17, KS17a, KS17b, KCB+17, RSCS19, WWYO18, XSN+18, ZLF+15, ZLZ17c]. **Descriptive** [TS11, VAK+11]. **descriptors** [BGA17]. **desert** [LLC+21, SYY+19]. **desertification** [CLMA19, CpW16]. **desiccation** [ALeSD17]. **Design** [LYC+15b, AS11, hCjHMW18, CR11, CR12b, DÖWB12, KRE+18, Ken19, KCP+15, KBMM15, LBR+17, LLL17, MRP14, SR14, SHS11, TB12b, YHS+11, YZLX14]. **Designing** [GOSH+12, HCE+19, LYC+15a]. **designs** [FMF12, WN17]. **desman** [BRV11]. **despite** [BAJ+11]. **destruction** [PL10b, dSJHG10]. **detail** [AVL+11]. **detailed** [GMTC+17]. **detectability** [LW17]. **detected** [VRA+17]. **Detecting** [LW17, MLK+11, OGG+16, PVB16, RWS+15, San11]. **Detection** [HGPF15, BMP+19, BOW+12, GMK+19, HTB13, HTB17, KKP+11, MdMS+19, TB12b, VB10, WSC+19, ZR19]. **detection-censored** [WSC+19]. **detections** [FYR+18]. **determinant** [BND19]. **determinants** [VEK12]. **Determination** [KHJ+19, LCCL15, San11, FML+17, KUK11, LYCZ11]. **determine** [BSHG16, CD17, CMGF14, FSN+15, Fis21, GO15b, GJK+15, LPD14, PTL14, VEMS12]. **determined** [GK14]. **determines** [SXNL18, SSR16, WYS12]. **Determining** [IKL14, KvOP10, PSWW11, ROC+13, ZLLZ13]. **Deterministic** [F.11, HBT+18, DR17, FM10, MYHN17]. **deterrent** [ZHV14]. **detoxification** [GBB+11]. **detrital** [DVD+14]. **Detritus** [LW14]. **devaluation** [GKL18]. **Devaluing** [LR16]. **develop** [FCA18, HLS+14]. **developed** [BBH+17, JN15b]. **Developing** [DLL18, KEM+16, LHB+18, PWK+17, SDSH15, SLRC19, SB15, BFR17, KBMM15, LHZN11, Sol19, ZLB14]. **Development** [AAJB21, AD12, BWC17, BKM+18, BOF+16, CAY+10, DWD19, DAW+10, DBJ13, GJM+13, GBW+15, HBH+12, JMdW+10, KK13, KWS+13, LAD11, LWKS10, LkSXhX17, MKSL+17, MJLC14, MBA+19, PGGMMA19, RR10, SHT+21, SAR11, THO10b, VSB13, WPZ+11, WXB10, YY11, ZLZS14, AK17, ALeSD17, AOD+13, BBA12, BHC+15, BFM11, CHPS17, CLLB12, CC10, DLZ+17, Els10, GZK+11, GHH+15, GAF+14, GB15, HS13a, HSVL12, HOŠ+12, JZG10, LBA14, LBA15, LWL+17a, LYCU14, LLP17, LBGM19, MDW+12, MVC11, MGW+21, Nak17, NvGZ+16, Oga11, OKS+11, RML+15, RHB14, RCC+11, SFC+12, TCSG15, TVF+10, TSSL11, WSW+13, YYQ11, YLHZ14, YXD+18, ZGJ10, ZYFL10, ZLC13, ZWG+13, ZLF14, ZFZ+14]. **developmental** [NU11]. **developments**

[EEFE+11, GPM16c, Jør10b, LB17, VASH+16]. **Deviations** [ZNS+18]. **Diadromous** [RDD+14]. **diagenesis** [ZSJ15]. **diagnostic** [SNS+12]. **diagnostics** [DMDJ13, DAP18, Lin10, Lin16]. **diagram** [LT15, SvdR10]. **Diameter** [RLS11, WK11]. **diamondback** [SFHK12]. **Dian** [XWW+11]. **Dianchi** [SLW+14]. **diapause** [MPGCS14]. **diatom** [CWLC13, HB15, KNM+10, VRL14]. **diatoms** [ZYZ17]. **diazotrophic** [GRD+14]. **Dicentrarchus** [PAGCV+10]. **dichotomous** [GTM+19]. **dictate** [FE14b]. **did** [Sci11b]. **dieback** [HS11, VAO+17]. **Diel** [TPO+18, BVJE18, HBB15]. **diet** [DGKSM13, MAC14, PLR+13, SWS16, ZAW+18]. **differ** [FML+17]. **differences** [AR11, DSJ19, DDR+14, KYvdPS14, SKL+13, SM14, YKZZ14]. **Different** [VMSM10, AHS14, AKvO+10, AKLB19, BCP15, BMN11, BC13, BKMK10, CNH+11, DAA+12, FCV+12, GHWG+14, GCDA16, GSPSP15, GWF+18, HHvO+17, HWL17, IKL13, JDT+17, JDP+12, KPLS15, KLS+14, LS10, LHR+15, LL18b, MPR13, MRM+17, NYIH17, OCB+13, PDV17, RBM+17, RLB+12, SZ14, SKMB11, SXNL18, SWR+16, TDH12, Tie16, dHR18]. **differential** [BBB+17, MMC11]. **differentially** [BRMW18, WRMB18]. **differentiation** [GGZ14, qHLlZ+16, ZWG+17, SJP14]. **diffuse** [PMBM11, RLHD11]. **diffusion** [BPK+16, BJR16, BRF+11, EGA12, HYG14, PvVC13, SSW+18, TB11, TB12a]. **diffusive** [AMF12]. **diflubenzuron** [MHRB19]. **digesta** [GBW+15]. **digital** [YZLX14]. **digraphs** [Pat15]. **dilemma** [DML15, RUSL19, RHS+15, RHD+16]. **dilution** [CHZ18]. **dimensional** [AHM+16a, BLH10, BKB10, DBK+13, FRM+19, HFB+11, KB11, LkSXhX17, LZYH19, MBSF14, MH10, PDAL14, PBK14, SELB10, WPG15, WQD+13, XCR+13, YWY10, YZG16, ZSJ15]. **dimensions** [CXL+19, Flo18, LB18b, SG11b]. **dimming** [GLS+17]. **dinoflagellate** [HHC15]. **dinoflagellates** [KTK+15, KDT+17, ZYZ17]. **dioecious** [MRB14]. **dioxide** [ACN14, GHP12, KRL+16, KVS17, MKF+11, MPM+15]. **diploproa** [GC11]. **Diptera** [KTV+15, LIM+16]. **Direct** [LMDG14, BRB14, DPBS10, FG11, LCR12, MDH15, RSP+17, ZCSL18]. **directed** [DDB+12, FMA+12]. **directing** [YY13]. **direction** [CD17, KK12a]. **Directional** [SG16, SMKM19]. **directions** [FCLFB18, GPM16c, KR10b, LTL+19]. **Directive** [BMU10]. **dis** [RH17]. **dis-** [RH17]. **disaster** [WLZC11]. **disasters** [HYG14]. **discards** [MMD+17]. **Discerning** [ODK16]. **discharge** [ER10, JCKG15, ZZZW15]. **disciplinary** [LP17]. **discors** [KK12a]. **Discovering** [HSCS14, TPL+15]. **Discovery** [Jør14a]. **discrepancy** [PBP+15]. **Discrete** [MPR13, BP19, CC10, dSCdA19, EEK+18, KMMS17, Log16, PES19, ZJB19]. **discrete-structured** [Log16]. **discrete-time** [KMMS17]. **Discretizing** [RRvdG18]. **Discriminating** [CAMNN16]. **discrimination** [SVH+19]. **Discussion** [CXL+19, SW11]. **discussions** [LMY+11, PL10b]. **disease** [BJK+16, BG15, BPK+16, BSCG10, DVL11, HMPC11, HM18a, HM19, HGSJ15, LBR+17, LBR16, MLK17, Mur13, NPJ+17, NTK14, OFGH+19,

PHvB+18, PSBH16, PKW+10, PMP+13, SM12, TF13, WGSR19, YLW14, YSB11]. **diseases** [STSA10, SM10, SDS+21]. **disentangle** [MYHN17, MDH15, VHDM17]. **Disentangling** [CHNdÁP18, EAB11, PNT+19]. **Disequilibrium** [Loe18]. **Dispersal** [BSHG16, BRF+11, CH19, FC12, KBB+11, LCC+14, SSR16, AAME11, ABGB15, BFJ+11, BKV17, BEPC15, BBGJ13, BG11, CMM+10, CHNdÁP18, CH12, Che15b, CV19, CDG15, DWNN10, DCCS17, DDB+12, FDP+10, FMA+12, FPG11, GPJL15, GVGZ+21, GPTR13, GTM+19, HRWT12, Joh10, KSI14, LM13, LLL+10, LLH+13, MPKC12, MBG17, MdlP15, MLMH18, MMPG16, NLMdL10, NPJ+17, PGATS13, PKMH16, PSWW11, PvVC15, PB14, RHW17, RHO11, RRJVA13, RHD+13, SSBJ12, STSA10, SBM+11, Slo11, SPWR17, SMKM19, SRM11, SGDP19, Str15a, Str15b, TKN14, TDF+19, VF16, VCE17, VAO+17, YDT+13, ZW11]. **Dispersal-mediated** [FC12]. **dispersal/colonization** [Str15a, Str15b]. **dispersed** [BFNH14]. **dispersion** [GJM+13, OAPP12, RAM10, RPC+17, SSW+18, WCZ11, ZC11, ZWJ+12]. **displacement** [FC12]. **disrupt** [ZHV14]. **Disruption** [KL12, MBM+18]. **Dissecting** [TNTH11]. **dissimilarity** [BS19]. **dissipation** [MPT+11, YFL+18]. **dissipative** [HWH+18]. **Dissolved** [JNC+11, NFU19, ASL13, BA14a, CGdCCPCPM14, HN14, KH11, LKKK+14, MH13, MGW+13, OSS13, PJ16, RRR+10, YFL+18, ZJM+13]. **dissolved-oxygen** [MGW+13]. **disstria** [BFA11]. **distance** [CGS+17, GPJL15, GPTR13, KB18, KK12a, MBG17, PWGS+17, SSR16, Str15a, Str15b, THJ+12]. **distance-based** [KB18]. **distance-invariant** [THJ+12]. **distances** [KRL11, RDJ19]. **distemper** [BG15]. **distilled** [Jen12]. **distinct** [SM12]. **Distributed** [GCK+15, AADA14, AD12, GCB+11, KW18, LKMCW14, MHG18, SEHD18, WPB14]. **Distribution** [BRL12, OT15, RHR+15a, RDD+14, AMRH19, AFC12, BCC+11, BEZ19, BGA17, BS15, BTS19, BP16, BP17, BBJV+11, BGD+16, BS16a, BGG16a, BGMJ+12, BPM+15, BG11, COBF13, CKMD14, CMEP15, CPAG15, CD15, DCMS18, DKJH13, DLvGGNC16, EZ14, FLX+14, FMW+19, FJH15, FCLFB18, FAPM12, FCA18, FAT+15b, FKK+18, GCDA16, GGV10, GGV13, GA15, GdSHA10, GMLRF10, GMC+19, GC14, GJK+15, GLY+15, HSLC+19, HMD+16, HFH+19, HHD12, HM10, HCM+18, HJN12, HM17, IBH+15, JVY19, JTM+17, JCKG15, JGX13, KTK+15, KCG18, KMP14, KSG+14, LMR16, LBE+13, LSJG17, LHW+15, LPT+18, LDM15b, LDC+16, LCS11, LWNG13, LRB12, MAO19, MU17, MMCBP19, MMS12, MCS+18, MHMRAHHS19, MUP+13, MDH15, MK19, MPP+15, MMC+19, MAMNL+15, MHY+15, MSO10, MDG10, NP15, OOFVBC16, PPZ+17, PSG19, PMB+19, PK14, PMF+13, Pie10a, PGS16]. **distribution** [PLHG14, PMS11, PBK14, RWVK11, RvKM10, RRJVA13, RHR+15b, RDR+17, RR10, RCS+19, SZSV12a, SZSV12b, SBM+12, SGA+16, SAI10, SGM+14, SSKJ18, SKL+13, SP10, SP11, SSM+13, SHS11, SLD+19, TAC+14, TJYZ11, TQZ12, Tul14, VVH12, VZF+11, WJS+18, WBB+21, WXB10,

WKF+17, WZL+16, XCR+13, ZSG12, dSD14]. **distribution-based** [KCG18]. **distributional** [PC16]. **distributions** [AG11, AFC11, BBL11a, CDR+13, CBR+16, CS17, CPS+19, CDM13, FMF12, FPG11, FBKS17, GCA16, GGV11, GVV+16, GSSM13, HEJP17, JDP+12, KFWM19, KPK+17, MWK19, MSV12, QDH+10, RvS16, RKS+10, RVNB11, SW19, SJB+16, TCSG15, VLF+17, ZJB19]. **District** [YLHZ14, KUK11, TNA+17]. **Disturbance** [GO15b, PBG+17, BFJZ+11, BSS+14, CNH+11, FBDZ12, GHST19, Gat18, HMS+10, HOKH18, JGB15, KK13, KMF+21, LB11, LKG+17, LLH+17, LVZ+11, MSCM18, PD12, PDD+18, PNHL14, SHB+11a, SM13, XCG+16, YHW19, dSJHG10]. **Disturbance-grazer-vegetation** [PBG+17]. **disturbances** [DVF+19, FTYI13, HM12, LAK+21, SFF+11, YLZ15, YBA+16]. **disturbed** [MCL+17]. **diurnal** [GBR+13a, KK12b, MvdWU+16]. **divergence}** [Abe15]. **Divergent** [SWR+16, SK15]. **Diverging** [MCS+18]. **diverse** [FS14b, For18b, KYvdPS14]. **diversification** [MKH+17]. **diversified** [SJS+13]. **Diversion** [GCL+19, CCL+13, YY11]. **diversion-type** [CCL+13]. **diversions** [WCL+17, dMLM+17]. **diversity** [ABR12b, ABR12c, Ban11, BRMW18, BME14, CHR+13, CHZ18, CBB19, DDR+14, Fuj16, GEEC14, GEZ+13, GCCJ12, Gre12, GWF+18, GEB10, HBSF16, KPMJ14, LLQN13, LZF+14, MBG+10, PGR+16, PBG+17, PPO12, RKBG14, RHD+13, RHR+15a, TBL+15, TPO+18, VCD+17, VH12, Wal15, WRMB18, ZJG10]. **Divide** [LM16]. **divided** [MAB19]. **division** [BHHM10, VVA+15]. **DMSP** [WLC+19]. **DMSP-OLS** [WLC+19]. **DNA** [Abe13]. **DNDC** [GAC+14, LWL+17a, LYD+17]. **Do** [FL11, GVV17, MSV12, NLMdL10, WRB+12, XM13, CHR+13, SHC+15, SPWR17, TL15, VPM+18]. **DOC** [JNC+11]. **DOC-3** [JNC+11]. **documentation** [SAKB+10, THO10b]. **Documenting** [GAF+14]. **Does** [FHAG12, FE14b, Log19b, MPT+11, MHS+17, RCSS13, RVB+10, SP10, VVA+15, BL15, CLHH19, Sil11, ZKSF17]. **dog** [PKB+18, YRGH16]. **Dogs** [BG15]. **dolphin** [BWC17, MMCBP19, PNHL14]. **dolphins** [SGSR10, dJHMS19]. **domain** [LNB17, LJB12, PWK+17]. **domain-level** [LNB17]. **domain-specific** [PWK+17]. **Dome** [YZ18, KOBK13]. **Dome-shaped** [YZ18]. **domesticated** [GLSA+11]. **dominance** [CD16, FRP18, MSG+13, SB11]. **dominant** [HGPF15, IKK+12]. **Dominants** [HM18b]. **dominated** [Ano12s, CPS15, GRL18, JHH+12, LBWW14, MCW13, NFU19, OCB+13, SLW+14, XYCZ11, XYCZ13, XYY+16, ZWJ+12, ZLY+13]. **domingensis** [ESA12]. **dominica** [YWA+17]. **Donald** [GB16b]. **donkeys** [SU15]. **Donor** [GFC15]. **dorée** [LPPA15]. **dormancy** [BCL+14, MBBA17, SMLH+11]. **dormant** [ASS14]. **dose** [BPK+16]. **Dosidicus** [ZBMBDU+17]. **Doubtful** [PNHL14]. **dougallii** [GQNMR18]. **Douro** [ABD14]. **dowels** [SBC+11]. **down** [FMF12, MBD+18, PMBB+16]. **down-sampling** [FMF12]. **downed** [RWFD13]. **downwind** [GKKW10]. **DPSIR** [SDSH15]. **drainage** [MKSL+17, ZF11]. **drained** [HJS+16]. **Dreissena** [KVP16, Lin15b]. **dreissenid** [JXL+15]. **dreissenid-colonized** [JXL+15]. **drier** [HWE+18].

Drift [GJM+13, AHNK13]. **drifting** [CVPH+14]. **drive** [CHPS17, Rai13]. **driven** [BMR+18, Ben12, BNC+18, CTB+12, DDB+12, FKH+15, FTK+14, GPJL15, HDL+16, KM12b, KdVRdW17, KWGW19, LDO+18, LLZ+15, LMCA+12, MJLC14, MDV+12, MMMGLN+18, PHP+14, PSBH16, SZV14, SQWS19, TSM+15, ZLFI11]. **Driver** [CpW16, GHST19, STJ15]. **Driver-system** [CpW16]. **drivers** [ABD+18, ACK+14, CSS+16, HBS16b, HSM+12, JXL+15, KSI14, LSH15, MPG18, MCP16, PDAL14, RPP+15, SHM+17, TNTH11, VPM+18, WCS+14]. **drives** [Gra14, HKM+18, PGA+11]. **Driving** [CWLL15, SCG+13, BU10, BU16a, DMZ+19, MNEG11, VEMS12]. **drones** [AOW13]. **droplets** [DKM+14]. **Drosophila** [CMH14, LAR+16]. **Drossel** [ZJG10]. **drought** [FMS13, JWX18, LCH12, LZF+14, MBW14, MEC14, SLZ+13, TGB+17, WYHC15]. **droughts** [XC14]. **drowned** [BdCS11]. **dry** [HBG+16, HSVL12, JG10, ZCYL15]. **dryland** [CNH+11, GE17, LZLC13]. **drylands** [CpW16, STJ15]. **DSSAT** [DJA+10, DBJ13]. **dual** [CXW19, JHHS17, Par10, Ula10]. **due** [BMR+18, CCL+13, CBA16, dSCdA19, MJB+11a, OJ10, PTA+12, PVL+14, PL10b, RGH+13, SM14, vPTOW18]. **dune** [HCW+17]. **Dunker** [dÁSMRT+19]. **durability** [HGSJ15]. **duration** [CGB+13, TCSG15]. **during** [BdCS11, CAMNN16, CMLY19, CLDRJ18, Fel12, HKN17, KHL+16, LSJG17, LBC+15, PMB+17, RJ17, SSY14, SBC16b, Vav12, YSA+14, ZLW+15]. **dusky** [SGSR10]. **dust** [SH18]. **Dutch** [HV12]. **dux** [CMEP15]. **dyad** [KKP+11]. **Dyer** [WSW+16]. **Dynamic** [BGMFES15, FCH+17, JBH+14, JA15a, LSJG17, MJB+11a, MDF+18, PBEL17, RBH13, Til21, VRC17, VRL18, WN17, WO14, ZR19, AYASR+17, AD18, BSH17, CW17, Che10, CSFR15, DAA+12, DA17, EPA+10a, FSV+12, FS18, GvdWBS11, GBW+15, HFH+19, HPS10, Hei11, HCM+18, HAOS17, HBL18, JWX18, KM12a, KJH+13, KP10, LJBS12, LBZA19, LJR14, LH15, LWGH13, LLZ+15, LZS+17, LLH+17, LYCU14, LPD14, LJCG15, MBLC14, MBHW12, MLMFN+15, MRG13b, NMC+14, NF11, PBFS14, PLL+19, PGGMMA19, RFZB12, RR12, SBC13, SMLH+11, TLLX19, TŠAD12, TJYZ11, Til14, TLS+16, WR17, YJW15, YZG16, YKvWK16, ZGJ10, ZSF+12, dMSL+16, vDSC+10, vDHH+14, DLL+19, GPH17, GMvV17, JZ12, LLC+17, PLS+10]. **Dynamical** [BPK+12, LDM15a, BRHD15, DAF+11, DH18, GLT10, JSKK15, OBC+21, PRP17, TAR13, WLR18]. **Dynamics** [Ano12a, BO14, DPR10, NS15, NYF16, NSN17, OLC+17, RDD+14, VGR+11, ZFG13, AD13, ACCM16, AAME11, ACKS13, AD12, ACM15, AGB+13, AWSS14, Ant14, ARV+16, BFA11, BCB+11, BBB+17, BKV17, BMMC21, Ben12, BLB+17, BT16, BSC+15b, BVVS15, BPK+16, Bin17, BNC+18, BKMK10, BCI+17, BSCG10, BD18, BQF+18, BPM+15, BPM+17, BCJ+12, BvBB10, BRF+11, CC12, CLBG15, CHPS17, CMH14, COBF13, CSN+19, CHCC15, CAC+16, Che17, CBO16, CDT10, CD16, Con14, CLDRJ18, CHK+12, CLL+15, CTP+17, DWNN10, DJT+19, DTC+10, DdSCG11, DHC16, DLCR13, DMR13, DBVS19, DSD13,

DS12, DHS+16, DBP16, DFM12a, DFM12b, DFF17, DRS+16, ESA12, ER10, ESLJ18, EAB11, FGH+10, FCZ13, FS14b, FBdP+16, FT16, FC11, FNR11, Fuj16, FPG+10, GCC+10, GHS+16a, GQRC+17, GQNMR18, GDC12, GC11]. **dynamics** [GPM16b, GPCG15, GV15, GGVB11, GHS+10, GRD+14, GMvV17, GRB12, GSS+14, GVC10, GDDFT16, GCM+13, HLS+14, HJ17, HS13c, HS13b, HSR+15, HBG+16, HMA10a, HOKH18, HHF+10, HBA16a, IGBSASSJ16, JM15, JX15, JXL+15, JDT+16, JX17, JASW18, KSS11, KK11, KW18, KCF+13, KP13, KF16, KAF+14, KAC+12a, KAC+12b, KPLS15, KWGG19, KHHN17, KWJH16, KJS13, KMS+12, KMS+13, KvTL+18, LKKK+14, LJAD17, LHO+16, LAR+16, LBR16, LLB+19, LAD11, LCH12, LBWW14, LAB+10, LHZ10, LDL12, LZLC13, LVLS14, LLZ+16, LZ10, LWC+18, LW14, LKP13, LOLA13, LSGT13, LZZW17, LZYH19, LPD14, LCML11, MRG13a, MGMR15, MD16, MLG18a, MXC13, MM19, MJL+13, MJL+14, MVC+17, MYHN17, MKSL+17, MFD+15, MRD+12, MGW+13, MG18, MPK18, MJF19, Mon13, MCA18, MP17, MNHW+13, MPG18, NMT+19, Ned15, NWAR12, NBK+11, NJM11, NB11, NBD+13]. **dynamics** [NP15, NPH+17, NTK14, PRHH13, PMB+17, Par10, PLFO+12, PMRGF10, PK14, PNHL14, PZM13, PVB16, PMTKC17, PME+16, QL15, QFG+13, RJG+13, RPSA12, ROC+13, RKC+15, RDR+13, RRH+19, RSC12, RSC13, RV15, RAR15, RPGSCF16, SHBG10, SVD+13, SMSAN+14, SSBJ12, SHB+11a, SK10, SBR+19, SAR11, SRSS12, SKMB11, SKH+13, SXNL18, SVL12, SSK14, SLH+11, SBRD10, STD15, Sim11, SSC15, SJB+16, SFL+19, SBC+11, SDKE18, SMG+12, SU15, SBC16b, SKPHW16, SGBG19, SMBGH+19, SW15, STJ15, TSP19, TM14, TDC+11, TT12, TF13, TXM+10, TOQW11, TLZ17, Tie16, Til15, TNHB12, Uch16, URJ10, Vav12, VRL14, VJR+16, VASH+16, VHDM17, VPS10, VPM+18, WAS+16, WGL+12, WJL+13, WMK+13, WAM13, WLH+10, WCS+14, WSW+16, WRSL11, WTL17, WFDDR10, WPZ+14, XLS11, XZC+17, XTPT11, XCR+13, XSL18, XGH+17, YL18, ZSS17]. **dynamics** [ZJM+11, ZLZS14, ZLB14, ZLW+15, ZJL+16, ZWW+18, ZBSF17, ZZLZ14, ZSSR18, dBGS+14, dJHMS19, dAdSC15, vLTdBP16, RCG+13]. **DYRESM** [WV12].

E-book [Jør14a]. **e-flows** [YYQ11]. **e-waste** [KS18]. **E.** [JA15b, KPSC10, KH15, SFvB10]. **Early** [Bae18, OFGH+19, GLS10b, GCvDM12, GCM+13, LSZC10, MCMT+16, PGA+11]. **Earth** [PVM13, MLG+18b, SFC+12, Cam16, FvBM+11, PVM12, SBDA16]. **earthquake** [CLCC11, LLL+10]. **earthworm** [CSS+17, JHT+14]. **earthworms** [HHF+10]. **East** [LY16, LCC+14, LSJG17, MGMR15, PSKO16, SHB11b, ZYZ17]. **Eastern** [FAC+19a, BHC+15, CPR10, CAC+16, DLW+17, EH15, EH19, GPR+13, HMPC11, LLC+17, NB11, PWK+17, RWFD13, RTE+15, SM14, TL15, WCL+17, XKI+11, ZLB14, MR17, NBD+13]. **easy** [DR14]. **eating** [DF13]. **Eco** [WL13, AMG19, ARV+16, BC13, Bev15, BPD+19, CHTC11, CZCL18,

CJC11, DR17, DLZ+17, JN14, LDL12, LTL+13, LB18a, MJB+11a, Nak17, NP18, Pat10, RHQ+16, TKW17, VFB19, XYCZ11, YXD+18, YHZ19, ZGJ10, ZZF15, ZWG+17]. **eco-agriculture** [LDL12]. **Eco-City** [WL13]. **eco-efficiency** [YHZ19]. **eco-environment** [ZWG+17]. **eco-evolutionary** [AMG19, ARV+16, RHQ+16]. **eco-exergy** [BPD+19, CZCL18, CJC11, JN14, MJB+11a, VFB19, XYCZ11, ZGJ10]. **eco-genetic** [DR17]. **eco-hydrologic** [Nak17, NP18]. **eco-hydrological** [BC13, LB18a, YXD+18]. **eco-industrial** [DLZ+17, ZZF15]. **eco-physiological** [LTL+13, TKW17]. **eco-resilience** [CHTC11]. **eco-systems** [Pat10]. **EcoBase** [CVG+15]. **ecodynamic** [JZG10]. **Ecodynamics** [Tie11]. **ecohydrologic** [KF16, KJS13]. **Ecohydrological** [QWJL19, AAFH15, GCK+15, GLRT16, HGPF15, LZS+17, YYL13]. **Ecol** [ABR12b, ABAG16, Ano12a, BRV11, Bar11, BMF+11a, CCW+15a, Con12, CR12b, DYMYGO19a, ERGW+11a, GORJ12, HM19, HLLO13a, Jør15a, KS17a, KMS+13, mLcLJ16, LSJ+19, Lin16, MJL+14, MSCH14a, Och10, Pat10, SMT19b, Str15a, WGA+12, WLS+11, YTT+11, ZLJM17b]. **ecologic** [Fai10]. **Ecological** [Ano13u, ADL+10, BFS11, CWLC13, CC11, CCF13b, CPE13, DBG14a, EH19, GWR11, GLSA+11, GPR+13, GWZ+15, KA17, KAF+14, KEHG17, LYP+11, LPA+11, LBK+13, LHL18, LYCZ11, LYC+15b, LLP17, MDG10, NGR+11, PBL+15, PAEE19, QCB+11, ROC+13, RHO+12, SELB10, Sol19, TLL+17, TM14, TZS+14, VMG+12, YLZ15, ZC11, ZYFL10, ZZF15, ZYKS15, ZLZ17b, ZLZ+17a, ZMH19, ABS17, AG15, AD18, Ano12t, ASP+15, ACK+14, ABL+13, AVG14, BCC+11, BGMFES15, BBJV+11, BS16a, BPB+18, BGG16a, BA14b, BOGA14, BB18, BSMA18, BRHD15, BFJL15, BLCPB11, CNH+11, CBC+16, CGV+15, CGGL16, CZW10, CCC11, CCL+13, Che15a, CXW19, ChHC12, CLD+17, CD16, CPJ+13, CLL+15, CK12, CGP12, DWNN10, DFW+18, DNFG18, DFK+11, EBL+11, FMBD15, FLLB11, FP17, FRM+19, FLB+15, FDHL17, FBU14, FPG11, FPWG14, GPM+16a, GSQ17, GSF+16, GGV13, GdTCFG10]. **ecological** [GK14, GCV14, GS19b, GFW+17, GCCJ12, GFP+16, GT14, GB16b, GB16c, GB16d, GLC+15, GCIB10, GEPCB13, HRSKW15, Hal11, HBF18, HKL+11, HLW15, HF14, HS13a, HM10, HGBA+13, HDL+16, HWH+18, HhLY+19, JGF14, JTB+19, JMW11, JBW+17, JN14, JSdSdL+18, KK16, KM12a, KK10, Ken19, KPM+14, KR10b, KMKL19, KWGW19, LL17, LKMCW14, mLcLJ15, mLcLJ16, LM13, LMY+11, LA11, LF11, LAB+10, LSZC10, LHZ10, LHZN11, LCCL15, LYSW15, LLQ+15, LWTZ18, LS13, Lin10, Lin16, LMGM11, LYCZ13, LAC10, MLY+19, MG16, MPR13, MRM16, MY11, MJY17, MWY+18, MRN12, MDJ+11, MWB+10, MCR+15, MPF+14, MHC16, MLG+18b, MSM+16, MMMCAHM21, NCMF10, Nie16, NMdR16, OTA16, OBC+21, OCD+13, PW10a, PBO19, Pat12, Pat14b, PMH17, PHP+14, PJ15, PMCKH13, PWK+17, PLS11, REB+16, RR12, RJ17, RNS+19, RKW12, RGRMRR18, RDH+13, RHS+16]. **ecological** [RDV+17, RVB+10, RH17, RH15, SBVA+13, SBC13, SSV+12, SKHH19, SBD+19, SMH+12, SWC13, SWZ+13, SA13, SLH+11, Sil11, Ske13, SHB11b,

Sma13, SBA+13, SDSH15, SYY+19, SXZ+15, TVT12, TBA19, TLW+14, TVV13, TTL+18, TWP+14, URR+17, VMP+19, VSB13, VG19, VQS+18, WJL14, WSE12, WLR18, WAM13, WSS+16, WR12, WK17, WKH19, WWYO17, WWYO18, XCG+16, XYY+16, YZ16, YZ18, YSH+10, YJW15, YJL11, ZFT+10, ZLLZ13, ZLZS14, ZFZ+14, ZLFZ16, ZCSL18, ZF19, dHR18, vdKGV11, SSF14, WTC+18, BH10]. **Ecological-economic** [KEHG17, HF14, VQS+18]. **ecological-economic-social** [SXZ+15]. **ecological-hydrodynamic** [FRM+19]. **ecological-network-analysis** [MY11, MWY+18]. **ecologically** [CHTC11, KVU+10, MAFG+19]. **ecologies** [AA12, KRE+18]. **ecologist** [PC17, SDEP18]. **Ecology** [BFW14, BME14, HKW+18, PF18, RvS16, Wei19, Bin17, FBU14, FS18, HBF18, HB12, Ji15, JNF16, KS18, LCCL15, LHH12, MSMM11, MGS15, Pat14a, Pat16b, Pau14, PES19, PBT+11, PÓF+18, RHR+15a, RHR+15c, RHR+15b, SHCR10, VGR+11, WHB+16, Wal17, XZCL16, ZMS19, ZDL+17]. **econometric** [Sci11a]. **Economic** [HFU11, Ano12t, BB10, BD18, BU11b, CRTS15, DK17, DZW+11, GK14, HF14, HKM+18, IS13, ISG13, KEHG17, LA11, LHZN11, LZL+18, LYCZ11, LYCZ13, LDCB21, MSM+16, NXZ18, Pat12, Pat14b, Rau11, RGRMRR18, RGH+13, SXZ+15, TLLX19, VQS+18, WFSH15, ZFZ+14]. **economic-ecological** [LHZN11]. **economic-ecological-social** [RGRMRR18]. **economics** [ABS17, Wal16]. **Economy** [GLC+18, BCP16, BCO17, CC11, FDR+17, HCM+15, HZSH17, Ji15, MH11, NLM+19, XHC+15]. **Economy-pollution** [GLC+18]. **Ecopath** [HCL+16, HKL+11, AW15, CVG+15, DLH+14, ERGW+11a, ERGW+11b, Fre16, FMLM11, GLC+15, HMA10b, LRZ12, LSR16, NJCF11, SBC+16a, URUNAM12, VASH+16]. **Ecopath-derived** [GLC+15]. **ecophysiological** [GTC16, KYvdPS14]. **ecophysiology** [IFC14]. **Ecoregion** [LLT+17]. **Ecosim** [AW15, CVG+15, ERGW+11a, ERGW+11b, FMLM11, HCL+16, HMA10b, LRZ12, SBC+16a, VASH+16, WLDL12]. **Ecospace** [AMH16, RMHE15]. **ECOSSE** [LYJ+15]. **ecosys** [Gra14]. **Ecosystem** [AHM+16b, CMCASS12, CPS+14, GAP+19, GB15, HF14, Jør14b, KB10, LF11, LXS+16, LYL+17, MML+11, MSS+19, PBL+15, PCB11, SS16, TNHB12, TPT+11, VLZ+19, WNT+13, WLF+16, XYCZ11, YHK+19, AAJB21, ALC19, AMH16, Ano17a, ADL+10, AJDS16, BHD16, BDV+19, BSFR17, BSH17, BJPB11, BS19, BS10b, Bre12, BDTV11, BPGSS+18, BFM11, BRPK14, BRKP16, CLMA19, CLBD+11, CR12a, CRUF13, CBR+16, CSS+19, CHvdW+10, CSN+19, CLH17, CGGL16, CLA+12, CWLL15, COPP13, CSF11, CCC12, CSS+16, CMCC15, CGM+14, DAW+10, DUASLB+12, DBVS19, DBG14a, DYU+12, DML15, DMBS11, EBA+19, ESP+17, ER13, FLLG13, FLH17, Fie12, FHL+13, FBdP+16, FD19, FBKS17, GYL+15, GMTC+17, GPR+13, GANB11, GFP+16, GFC15, GPP+19, GYL+13, GPC14, Hal11, HBR19, HBS+16a, HKL+11, HCZ+17, HV15, HWS11, HJ10a, HCL+14, HJS+16, HS13c]. **ecosystem** [HS13b, HB10a, HWE+18, HCL+16, HT16, HPRNP12, HPC13a, HPC13b,

HKG+17, HMA10b, HDL+16, HWH+18, HBA16b, IT17, JBV+15, JSL+10, JC11a, JDT+17, JOHW17, JMB+11, JBW+17, JL18, KM12a, KK10, KSAS12, KHW+17, KTM+16, KEM+16, KHL+16, KVU+10, KL12, KGYG15, KVP16, LSJ+18, LSJ+19, LBA14, LBA15, LBSB+14, LB11, Lee14, LBD10, LDO+18, LdMS+16, LLM+13, LYJ+15, LZZP16, LWL+17b, LLC+21, LS10, Lin15a, LVZ+11, LLZ12, LC13, LG17, Löp11, LCML11, LMBL12, MTZ+10, MK13, MPT+11, MRG13a, MGR+18, MJB+11b, MKL14, MGCL17, MGS16, MK12, MK14, MPL+16, MZLCSZdP11, MSCH14a, MSCH14b, NCEGB16, NMC+14, NXZ18, NPP+18, NGWZ16, NJCF11, OGG+16, OWMK10, OCCF17, OCB+13, PLR+13, Par10, PWP+19, PGV10, PPO12, RGU+15, RJH+10, RRHH10, RSDP+12, RKBG14, RDH+13, RDD+17, RRH+19, RA13, RSD+15, RWP11, RBGB16, SLW17]. **ecosystem** [SVD+13, SB11, San17, SNS+12, SSV+12, SS10, SM13, SRSS12, SLW+14, SHM+14, SAW+11, Sin17, SSN+18, SDY+15, SMG+12, SCG+13, SS11, SFB+15, SH18, SGKR10, TLLX19, TM18, TLL+15, TŠAD12, TXM+10, TRE+12, TCH+13, TAGC+16, Ula10, URUNAM12, UDRA13, VCD+17, VC17a, VVA+15, VFB19, VASL+15, WGA+11, WGA+12, WHB12, WDL+15, WO14, WYS12, WRM+11, WJK11, WJvdL+13, XZC+17, XTPT11, XYCZ13, XLL15, XC14, YL17, YLY+18, YLC13, YLF+15, YLHZ14, YLL+12, YDL+15, ZHC+16, ZRCNLI+15, ZGJ10, ZWG+13, ZLY+13, ZLLC13, ZZB+18, ZZL+19, ZSF+12, ZZLZ14, dMSL+16, dMLM+17, FSB13, HPC13b]. **ecosystem-based** [HCL+16, KTM+16, NCEGB16]. **ecosystem-level** [WRM+11]. **ecosystem-scale** [LF11]. **Ecosystems** [BH10, PSJ11, SJP14, Ana17, BO14, BSC+15a, BCO17, BBC+19, BBA12, BPD+19, BRB14, CLBD+11, ČTT+12, CY13, CSR15, CGEdM12, CMSPJ11, CPJ+13, DWD19, DYMYGO19a, DYMYGO19b, EPM+14, GPM+16a, GLA11, HB12, HBH+12, HJ10b, yHAB12, HYL+17, JS12, KRL+16, KBC+12, LM13, LKG10, LBE+18, LBK+13, LLY+13, LZLC13, LLTQ14, LLTQ15, LXS+16, LVPF15, LPX+12, LHR+15, LKAY15, LJLO11, LD16, MSP+13, MY11, MBSF14, MCT10, MDF+18, Mer12, MJC+11, NJM11, NBD+13, PRHK19, PNT+19, Pat10, PCB11, QL15, RDD+18, RBGB16, SMSAN+14, SFF+11, SKMB11, STD15, Sol19, SGB10, SGHW+17, SPP18, Tie11, TYEH10, UDNSLCG16, UDNSLC+18, VLZ+19, Vav12, VASH+16, WJL14, WLY+15, WR13b, WPB14, YCF15, YLL+17, YFC+11, ZW12, ZJL+14, ZYKS15, ZJP+11, Pat10]. **ecotone** [DBG14b, DBG14a, JDT+16, PRHK19, PR11]. **ecotones** [ACM15, DVCM+10]. **Ecotourism** [PKG16]. **ecotoxicity** [JZ12]. **ecotoxicological** [PAEE19]. **ecotoxicology** [JBH+14]. **Ecotracer** [LSR16]. **ecotypic** [MDB19]. **Ecuador** [Bre12, HGBA+13, JVY19, SRV+12]. **eddy** [MYHN17]. **eddy-resolving** [MYHN17]. **edge** [DNFG18, FJH15, FCA18, LdMS+16]. **editing** [GdC14]. **editor** [Fat10]. **Editorial** [Ano17m, Ano17n, Ano17o, Ano17p, Ano17q, Fat12, FGG+14, Fat16a, FKDG14, Jor11b, Jør16, Las10, Ano10a, Ano10b, Ano10c, Ano10d, Ano10e,

Ano10f, Ano11b, Ano11c, Ano11d, Ano11e, Ano11f, Ano11g, Ano11h, Ano11i, Ano11j, Ano11k, Ano11l, Ano11m, Ano11n, Ano11o, Ano12b, Ano12c, Ano12d, Ano12e, Ano12f, Ano12g, Ano12h, Ano12i, Ano12j, Ano12k, Ano12l, Ano12m, Ano12n, Ano12o, Ano12p, Ano12q, Ano12r, Ano13c, Ano13d, Ano13e, Ano13f, Ano13g, Ano13h, Ano13i, Ano13j, Ano13k, Ano13l, Ano13m, Ano13n, Ano13o, Ano13p, Ano13q, Ano13r, Ano13s, Ano13t, Ano14a, Ano17e, Ano17f, Ano17g, Ano17h, Ano17i, Ano17j, Ano17k, Ano17l, Ano18a, Ano18b, Ano18c, Ano18d, Ano18e, Ano18f, Ano18g, Ano18h, Ano18i, Ano18j, Ano18k, Ano18l]. **Editorial** [Ano18m, Ano18n, Ano18o, Ano18p, Ano18q, Ano18r, Ano18s, Ano18t, Ano18u, Ano18v, Ano18w, Ano18x, Ano19i, Ano19j, Ano19k, Ano19l, Ano19m, Ano19n, Ano19o, Ano19p, Ano19q, Ano19r, Ano19s, Ano19t, Ano19u, Ano19v, Ano19w, Ano19x, Ano19y, Ano19z, Ano19-27, Ano19-28, Ano19-29, Ano19-30, Ano19-31, Ano19-32, Ano21a]. **Eds** [Wei19]. **Education** [DSBM$^+$18, FMBD15, MHS$^+$17, Mob18, WHH$^+$18]. **educational** [CXL$^+$19, LB18b, SGB10]. **edule** [RGU$^+$15]. **Edward** [GPC14]. **Edwards** [MGWW13]. **EEHS** [DFL$^+$16]. **eel** [CRQW18, TSN15]. **Eelgrass** [CVPH$^+$14, CVPR$^+$16, FRV$^+$16, KR10a, KRCVF16, KvTL$^+$18, LZW$^+$17]. **EFDC** [KLS17, LL18b, WX11]. **Effect** [BRKP16, CGLA10, CL12a, CZCL18, FDM$^+$11, KPSC10, LLTQ14, LLTQ15, NMA$^+$19, PGS16, SHS11, TLP17, WC19, ZWJ$^+$12, ACM15, AML13, BGA17, BB18, CZC$^+$15, CEC10, CHNdÁP18, CHZ18, COY$^+$10, CN13, CTC$^+$18, dSCdA18, DWWS15, DMH17, DWP16, FGPR10, FtHvdB$^+$14, FG11, FAPM12, FAC$^+$19b, GHWG$^+$14, GBG$^+$15, GORJ12, GLRT16, Hol13, JVY19, JGB15, Kal19, KWGG19, KPMJ14, KR14, KMM$^+$13, LJR14, Lec17, LHZ10, LJ13, LPS$^+$10, LPT$^+$18, MLW11, MW12, MW15, MSP$^+$13, MSS$^+$19, MF16, MP13, MMC$^+$19, PJ15, RGU$^+$15, RSE10, RW17, SBCB13, SCHQA16, SBDS13, SSC15, SLZ$^+$13, SGWV15, UR10, VRL18, Ver10, WM14, WDL$^+$15, WWYO17, YFL$^+$18, ZBSF17, dS18]. **Effective** [NSIiT17, ASP$^+$15, CCS13, CPAG15, DLH$^+$14, GDBB19, KUI$^+$18, LBA14, LBA15, MS14, NLMdL10, RPA$^+$18, SAT$^+$15, VF16]. **Effectively** [NYIH17]. **effectiveness** [EST$^+$19, FMF12, HGBA$^+$13, LCP14, LRB12, PHvB$^+$18, RGHS11, RAM10, TLS$^+$16]. **Effects** [AVL$^+$11, AAME11, AKLB19, BFP$^+$18, BH13a, BGG$^+$16b, CRBC11, hCjHMW18, CSH11, CMLY19, CMCC15, DA19, DG16, EZ14, FBA$^+$11, Fuj16, GVGZ$^+$21, mGZK$^+$10, GPCG15, GGR$^+$13, GLY$^+$15, HPC13a, HPC13b, IWW12, JJYM19, JL18, KSS11, KTK$^+$15, KM12b, LRM$^+$14, LBZA19, LCY$^+$13, LKG$^+$17, LLQN13, LLH$^+$13, MPK18, MHRB19, MMPG16, NNST$^+$14, PL10a, PMM11, Pea15, PGV10, PLHG14, PMBB$^+$16, RHO11, RW10, Rem11, RDH$^+$13, SGAS14, SAI10, SPB$^+$17, SFHK12, TM18, Tat16a, TDH12, WR12, YAGMM$^+$14, dMLM$^+$17, ABAG14, BFA11, BNMP11, BNL$^+$13, BR16, BMCG12, BFS11, BvHR$^+$15, BGPJ10, BWML15, BRB14, CCCP17, CDR$^+$13, CLA$^+$12, CGB$^+$13, CSS$^+$16, CJM$^+$12, CWJ$^+$13, CHK$^+$12, DSJ19, DPPI14, DMR13, DBVS19, EGMW12, EAB11, ERGW$^+$11a, ERGW$^+$11b, FLH17, FT16, FKSK$^+$10, FCA18, FAT$^+$15b, FTTV$^+$18, FPWG14, GHWG$^+$14, GPK$^+$13, GCC$^+$10, GB16a].

effects [GCA16, GSJ+10, GV11, GLS+17, HMPC11, HHC+13, HFSL14, HMP+19b, HZT+13, HW12, HHW11, HR11, JTM+17, JCKG15, JX17, JHT+14, KKH+17, KFWM19, KSZW16, KBS+15, KPLS15, KHS+19, KJH+13, KPTC14, KPK+17, Lab11, LLC+17, LMGW16, LJ10, LLT+17, LBW18, LDP14, LHR+15, LCFD19, LBC+15, LLFL12, LCR12, LMBL12, LSL10, LHLW15, LSM19, MK13, MKH+17, MCH15, MRCW10, MWK19, MJL+17, MKL14, MYHN17, MBG+10, MGCL17, MJK+17, MJC+11, MB14, MSR+14, MGWW13, OLC+17, OAPP12, PC17, PAT17, PSG19, PVBC14, PCZ+16, RPSA12, ROSC15, RLS11, REB+16, RSP+17, RMR+16, RCST11, RSC12, RSC13, RWvDM15, RSD+15, RH17, RBGB16, SMC11, SB11, SSBJ12, SHB+11a, SSS+11, SHX+12, SKTG11, SGH16, TdS12, TWH+14, VG19, VASL+15, WGA+11, WGA+12, WJL+13, WGTH16, WKZ+19, WPB14, WCG+11, XLS11, XYY+16, YKCN10, YSB11, YGL18, YYH19]. **effects** [ZBAY14, ZYKS15, ZZ17, ZCSL18, ZLD+19, ZML+12, ZZLZ14, ZJP+11, ZSKI17, dMSL+16, dSJHG10]. **efficacy** [HL19, LZB17, ZCR16]. **efficiencies** [Pea15]. **Efficiency** [BVC+18, PP19, PDV17, BSC+15a, CPD+11, CGEdM12, DHC14, DMBS11, GCV14, GDW12, HLZ+18, HFMM+12, Hoa11, HNWT10, LGMLD19, LY11, LCL+13, MF12, MDV+12, Oga11, SRTS18, TM12, TBL+15, UB12, YHZ19, ZZFH15, ZJP+11]. **Efficient** [CN11, CS18, LM16, LZB17, Pat12, WHC+13]. **effluent** [NFU19]. **effluent-dominated** [NFU19]. **Effort** [BWRA16, BMP+19, BPWB14, CGLA10, FN15, RMHE15, VRM+10]. **efforts** [BA17, SKM+16]. **Egg** [GJM+13, CEC10, CC10, DJMBD+13, GPZB18, MLS+11, ZSG+18]. **egg-bearing** [DJMBD+13]. **egg-laying** [GPZB18]. **eggs** [GJM+13, PPZ+17]. **Egypt** [ESA12]. **eigenfunction** [LJ15c]. **eigenfunction-based** [LJ15c]. **elaphus** [RR10]. **elasmobranch** [NCMF10]. **elasticities** [EC10]. **Elbe** [ZZT13]. **Eldana** [PvVC13]. **electricity** [HFU11]. **electrofishing** [LLB+19]. **ELEFAN** [SMT19b, SMT19a]. **elegans** [BGA17]. **elementary** [BP19, GB16a]. **elements** [CLL14]. **Elephant** [RWS+16, BQF+18, FKSK+10, MMS12, RWS+15]. **elephants** [SWS16]. **elevated** [ZJP+11]. **elevation** [HJN12, KR10a, OT15, RSC12, RSC13]. **elevational** [ENC+15, MLK+11]. **Eliciting** [CLT+11, PSM+12]. **eliminate** [Log17]. **elk** [RR10]. **Ellenberg** [KGD14]. **Elsevier** [Jør14b]. **Elsheik** [Jør14a]. **elucidated** [ROC+13]. **Elucidating** [BSP12, KPLS15]. **Elucidation** [HMA10b]. **elusive** [CGV+15]. **embayment** [WEJ11]. **Embedding** [dBGS+14]. **Embodied** [HCM+15, JC11b, SWZ+13, ZQC15, AAW+15, JC11a, JLN10]. **emerald** [KKR19, VCSSC12]. **emerge** [GDTP13]. **Emergence** [CGM+14, TTCC+19, BCL+14, GDC12, GM10, GB16d, LPF11]. **Emergent** [Ban11, BR16, RPM13, RNS+19, SK15, BA14b, EAJG16, KGM12]. **emerges** [LDB14]. **Emerging** [Gia14, Cam15, DBH+17, JD18, KR10b, PSJ11, SJP14, Pat10]. **Emergy** [Abe13, BMF+11a, BMF+11b, BCO17, BCT15, BU16b, CLL14, Cam15,

Cam16, FBU14, Har11, LDJZC15, LT15, LLCR10, LYCU14, MBRR13, MCPB15, Rau11, Ten15a, ZYLY11, ALL11, Ano12t, ARTBB14, BPT+19, BLOJ+19, BU10, BU11a, BU16a, BCUF16, BCDU16, BPD+19, CT16, CLHH19, Cho13, CT12, DB15, DBSA16, DLD+11, FMBD15, FB15, FAC+19b, GRRU15, GZVU14, GAB12, GFC15, HT14, Ing10, JZCL14, JC11b, KØ13, KRE+18, KBMM15, LTL15, LB17, LCBNP19, LLCR11, LLTQ14, LLTQ15, LYCZ13, MCPB13, MCB14, Pat12, PMH17, PPF11, PCB11, RRBI14, Ten15b, Til14, Til15, Til21, UB12, WLC+19, WO14, YKZZ14, ZB15, AAO10, MRZU14]. **Emergy-based** [LYCU14, WLC+19]. **emigration** [HKP10]. **emini** [MSG+13]. **emission** [CGY11, CZW10, GNB+14, HJS+16, WC13a, WC13b]. **emissions** [CC11, CSH11, DZW+11, FCZ13, KGS11, LHZS10, LHL18, LSM19, mNkGyT+17, SSY14, TB19, WSL17, YC13, ZZY+13]. **Empirical** [RHR+15c, BCV13, DWD19, GDC+19, HB12, KHKC+18, KCC16, MPL+16, MYJ+14, RDD+18, VPB+12, WYHC15, WTWS19, dSD18]. **empirically** [ADF13, FG11, TVF+10]. **Employing** [LdMS+16, KGD14]. **enable** [LZB17, RP11]. **enables** [DJH10]. **encounter** [KNPH+17]. **encounters** [CF14]. **end** [BDV+19, CBC+16, DBVS19, FLH17, HBS+16a, MSCH14a, MSCH14b, RBGB16]. **end-to-end** [BDV+19, DBVS19, FLH17, HBS+16a, MSCH14a, MSCH14b, RBGB16]. **endangered** [CGV+15, DHC16, DHS+16, HBT+18, KWGG19, LJ15b, LAEAG12, MFB17, PCRP12, TAC+14, TL15, WAGM17, WSW+16]. **endemic** [DUASLB+12, LTGD16, MAO19]. **endemism** [HBSF16]. **Endl** [Oga11]. **endosymbionts** [TGM+21]. **endotherms** [BM10]. **endozoochory** [DDB+12]. **enemies** [BWH13]. **Energetic** [MSM+17, ABAG15, ABAG16, LB11]. **Energetics** [LARZN13, SM13, ATL18, BKP10, Bar11, CB15, HKW+18, LDS14, MAC+12, Ske13]. **Energy** [Abe10, BB10, BM10, BMU10, DLL+19, FAC+19a, GPM+16a, GPH17, GMvV17, JZ12, Ju19, LLC+17, LCBNP19, PLS+10, SJS+13, SØB14, XYTS19, Abe15, AMH16, AS14, BLY11, BSASSJ+13, BWC17, BK13, BPD+19, CZC+15, EIG+10, ENM11, FKWZ19, FCZ13, FG11, HMP+19b, HZZ+18, HM18b, HBA16a, HBA16b, JBH+14, JR16, JNHF18, JHH+12, JHT+14, JLN10, Jør15a, Jør15b, JC11b, KAJØ19, KL12, KBMM15, LKLK15, LT15, LTL+13, LLW+15, LZJ+19, LDYL18, MPT+11, MEC14, MH11, NLM+19, Pie10a, RMGU11, RHR+15b, RDR+17, SGAS14, SWZ+13, SG11b, UAB+11, VFB19, WWC+18, WYY+19, WHNR19, WWYO18, XHC+15, ZYFL10, ZLF+11, ZZY+13, ZQC15, ZLZ17b, ZMH19, JN15b]. **energy-budget** [HMP+19b, JR16, JNHF18]. **energy-related** [LDYL18, ZZY+13]. **energy-saving** [FG11]. **energy-water** [NLM+19]. **engineer** [OCB+13]. **Englishmen** [NGGFM19]. **Engraulis** [XCR+13]. **enhance** [ACDC17, Hel10, KRL11, LWC+18, LQW+19, MCRB17]. **Enhanced** [CRO13]. **enhancement** [RAB+10, WKZ+19]. **enhances** [KCG18]. **Enhancing** [AADA14, KPS17, LAB+10, RFZB12, VHM+17]. **Enigma** [Pat16b]. **enough** [SP11]. **enriched** [TXM+10, XTPT11]. **enrichment** [F.11, LLFL12]. **enrollment** [CLA+12]. **Ensemble**

[HG17, RXSK14, ZCS13, CGG+18, CDM13, Fie12, GLY+15, HGLZ13, PAS+10, SGP18, YHJ+17]. **ensembles** [MMMCAHM21, STD15, ZZ17]. **ensure** [MDW+12]. **entire** [vGKB10]. **entities** [LM13]. **entropic** [Ske13]. **entropy** [BND19, DS21, GGV11, HLW15, Lin15a, MMS12, MK14, QL15, RHR+15b, Sma13]. **envelope** [BBH+17, WRB+12]. **envirogram** [KPT11]. **Environ** [TLL+17, Ano12s, MCW13, MJC+11, WPB14]. **environment** [BCP16, BF11, CMD12, EST+19, FSV+12, FS18, HZSH17, Hei11, IKL13, JDZC14, LBWW14, LWGH13, LSJG17, LHH12, MSG+13, MAO19, MRB14, MCL+17, MGS15, NGRDTHRL19, Pat16a, PLHG14, RPGA15, WGE+19, YKvWK16, ZHC+16, ZZZW15, ZWG+17]. **environment-economy-society** [HZSH17]. **environment-sensitive** [YKvWK16]. **Environmental** [AA12, FBU14, FLA19, FAT+15b, JSB+14, LG17, MJL+17, SC18, WCZ11, XCR+13, ABAG15, ABAG16, AFC11, ARV+16, BRV11, Bec10, BMN11, BTB17, BDG+14, BRW+12, BvHR+15, BCT15, BU16a, BHPF14, CPMP13, CdOR10, CBCB17, CBGK15, CZ11, CSS+16, CRTS15, CDG15, CSL+12, DLD+11, DFD11, EMH10, EC10, FGPR10, Fre16, GCDA16, GdTCFG10, GJK+15, HFU11, HKlL14, HFMM+12, Hu16, IFC14, JMB+11, KPS17, KK15a, KPT11, KWGW19, LAK+21, LDS14, LJ15a, LST15, LHL+17, LMGW16, LS13, LYCU14, LCT+17, MTL+10, MHMRAHHS19, MDH15, MLK17, MFI13, OCD+13, PPB+18, PMH17, PRL+13, PANL11, RIMPBT19, RNE+12, RRvdG18, SF10, San19, SHT+21, SSV+12, SBD+19, SGA+16, SJB+16, SKM+16, SWGC16, TCSG15, Tie16, TSSL11, UAB+11, UDP17, VPB+17, VG19, VKdW+10, Wal16, WMK+13, WRSL11, Yan11, YM21, YY11]. **environmental** [YTT+11, ZLY16, ZBS14, ZAW+18, dBGS+14]. **environmentalism** [MRM16, Pat14a, Pat16b]. **environmentally** [BGG+16b]. **environments** [ACKS13, ASS14, BRMW18, Che17, CV19, FMA+12, FAC+19a, HHvO+17, HQF+17, KYvdPS14, KASS12, KP10, Log13b, Mon13, RKRB16, RPGSCF16, SAT+15, ŠK14, VP12, WR13a, WR17, ZBMC14, ZCL+16]. **Environs** [Pat10, AG14, BF11]. **enzyme** [ABAG15, ABAG16]. **EPIC** [IMW+17, QCLW18, XBvdV+14]. **epidemic** [JSKK15, PTML14]. **epidemics** [BA14b, PKW+10, SCBH18]. **epidemiological** [FBB+18, RKW12]. **epidemiology** [DVL11, LPPA15, TCGC16]. **epilimnion** [CT11, HC11]. **Epinephelus** [CNI11]. **Epistasis** [CdOR10]. **Epistemic** [CWMC+12]. **equally** [Pat12]. **Equation** [Vav10, CL10, MLG18a, MV17, MMC11, PC15, RHO+12, RDH+13, RHS+16, RDD+17, SIS+14, SCHGM16, SGKR10]. **equation-based** [CL10, MLG18a]. **equations** [ACKS13, BBB+17, HSD+15, JOHW17, Sak13, SFR+17, VRC17, VRL18, WSSM15]. **equifinality** [WC13b]. **equilibria** [DH18]. **Equilibrium** [MM19, GLS10a, LJAD17, PBP+15, Wan19]. **equity** [RvS16]. **Equivalence** [BS19, BFS11, SBDA16, YTT+11]. **equivalent** [GBP+10]. **eradication** [ATCJ+19, VBPY11, WTG+16, YHK+19]. **Erie** [JXL+15]. **Erik** [Fat16b]. **ERIMO** [SAR11]. **ERIMO-I** [SAR11]. **EROEI** [BLY11]. **EROI** [GPM+16a]. **Erratum** [ABR12b, BRV11, Bar11, ERGW+11a, Jør15a,

KMS+13, LSJ+19, MSCH14a, YTT+11]. **error** [HTB13, HTB17, SP12]. **errors** [AGJ+12, CBA10, PBO19, WBC+12]. **escapes** [IGBSASSJ16]. **Escaping** [SDSH15]. **esculentus** [KSZW16]. **ESEM** [Ano11p]. **Esla** [SGRAdJ17]. **Esox** [BVP+13, MMVAHMC16]. **essential** [LDG14]. **Establishing** [BPC+17, CXW19, CBP+17]. **Establishment** [PHC10, PR11, ABR12a, CVPH+14, HKN17, RJ17, TLP17]. **Estimate** [NSN17, BMSLC16, BQF+18, FG11, GYL+15, LZZ+14, NLMdL10, Pér18, PC15, PGK+13, SBM+11, SML12, SSN+18, WV12]. **Estimated** [AHS+17, SFL+19, CGS+17, COY+10, DCZ+15, MK12]. **Estimates** [QDH+10, RWFD13, AOW13, BPC+17, BV15, FE14a, FYWA12, FML+17, GTC16, LLT+14, LBS+14, OMDP11, OKS+11, PLHG14, RMTM+16, SMT19a, SMT19b, SHM+14, Tho10a, VHM+17, WGA+13]. **Estimating** [AGJ+12, BM11, BAJ+11, CWL+16, CGB+13, CW11, CMV+16, FPO18, JSL+10, KKP+11, LVZ+11, Log16, MSF18, MSO10, PPZ+17, PWGS+17, PKW+10, RVNB11, RTE+15, SRXP14, SA13, SSQ+10, SG11a, Vav12, Wan19, Wol11, BWC17, CCCP17, CCW+15a, CCW+15b, CC10, Cho13, HVL+19, Lec17, LLCR11, LWY+11, Loe14, MGW+13, MDKK15, PR13, RRHH10, SM12, SED15, SLZ+17, VRM+10, YCL+14, ZZFH15, ZZL+19, dLB19, vPTOW18]. **Estimation** [CCSF11, FN15, KW18, KBS+15, LCL+13, LLY+13, LZZP16, LPS+10, PBT+11, PSSH11, VALC12, ZZY+13, BSC+15a, BDG+14, BWA17, BMU10, CGAB17, DVT+10, DFM12b, DG16, FHL+13, KSZW16, KCP+15, LBM16, MMC11, Ned15, PBO19, Qia12, RGHS11, RRG+15, SBVA+13, TŠAD12, Wol11, YLL+12, ZCS13]. **estimations** [FvBM+11, Til15]. **estimator** [BM11]. **estimators** [DHL+12]. **estuaries** [CVPH+14, FRV+16, KM12b, KRCVF16, RML+13]. **Estuarine** [BH10, DCMS18, BNMP11, BSFR17, DJS10, DG11, DWD19, DVD+14, FPG11, FPWG14, HB12, IT17, KVU+10, LMT13, LdMS+16, MSFR15, RGU+15, RBM+17, RSC12, RSC13, San17, VASL+15, WJL+13, WSW+13, YLY+18, YKCN10, ZJL+14, ZZ17]. **estuarine-shelf** [DJS10]. **Estuary** [BCB+11, CLD+17, PLR+13, WSW+13, WPB14, ABD14, BN10, DJS10, DWP13, DJMBD+13, FS14a, GJÁ+10, JJKJ11, KvTL+18, MRG13b, TRD+15, WQD+13, DWP16, HB14, MDVG+15, WLDL12, WDL+15]. **ethanol** [ABAG15, ABAG16, BB10, YC13]. **Etheostoma** [MGWW13]. **Ethiopia** [FSML11, TW18]. **ETM** [VB10]. **EU27** [MCPB15]. **eucalypt** [HS11]. **Eucalyptus** [CN11, NB11]. **Eulerian** [DFL+16, IFC14]. **Eulerian-Eulerian-Habitat-Selection** [DFL+16]. **Euphausia** [GJK+15, MRCW10]. **Euphausiid** [TWH+14]. **euphotic** [UDRA13]. **Eurasian** [AGQP+14, PGZ+19, SGA+16, TAC+14]. **europaeus** [RPGA15]. **Europe** [GPTR13, GCK+15, GBP+10, GB15, IPSH14, MCWG21, OJ15, PKD11, SLSS15, SFB+15, TAC+14, TNA+17, TKH17, WGSR19, ZZB+18]. **European** [HLLO13a, BLB+17, BKMK10, BMU10, HGE+10, HLLO13b, LCBNP19, MBD+12, OAPP12, ODK16, PRL+13, PAGCV+10, PSKO16, VPC+14, WFN+16]. **Eurytemora** [DJMBD+13]. **euthanasia** [MCT10]. **eutrophic** [ALC19, CZR+14, CPS15, CTP+17, LCY+13, MGMR15, SØB14,

SHM+17, WB17]. **eutrophication**
[BNMP11, CKH15, DMZ+19, HFB+11, HhLY+19, LkSXhX17, LL18b, NGGFM19, PAB13a, WSW+13, XWC+11, XPY+14, ZCSL18, ZDG+13]. **evaluate** [BGD+15, DHC16, FRV+16, FP13, GJM+13, GLS10b, HHF+10, LBSB+14, LCD+16, LL18b, PRH17, RR10, SHX+12, TAR13, WSE10, WYPF15, dMLM+17, vdVJS16]. **Evaluated** [CVPH+14, MSGG14]. **Evaluating** [BvHR+15, BCD12, Cha12, CZ11, CAC+16, CDM13, DLD+11, FSM+19a, FMF12, GGV13, GPD+13, HCZ+17, HSM+12, KKR19, KK10, LLZ+16, LHLW15, MFB17, MCP16, MWD+15, PWBG16, PGW19, PMCKH13, PPDF14, RMHE15, WGA+11, WGA+12, WR13a, YKZZ14, ZJP+11, dLB19, CSF11, DZS12, EEB+17, GZVU14, KHW+16, Lin10, Lin16, LC13, Mar12, MGCL17, NMT+19, OWMK10, SXZ+15, SLRC19, VPB+12, WTWS19, WWYO17]. **Evaluation** [AAO10, CPS+14, GS19b, KJS13, LJ15b, LYSW15, LYD+17, LDYL18, MH10, NL12, Pat14b, PICR13, ROSC15, REB+16, SFMA15, SHM+14, SLZ+18, SLY+17, WC13a, WC13b, XGH+17, YHK+19, ZZB+18, Abe13, ALL11, AFC11, AVG14, BTM+10, BDV+19, BFJZ+11, BCO17, BOF+16, BU10, FMBD15, FKK+18, FDM+11, GH13, GBB13, GCV14, GHH+15, GHS+16b, HPJ15, HHL17, IS13, ISG13, IMW+17, JC11a, JGB15, JC11b, KWS+13, KVP16, LRZ12, LHL+17, LHB+18, MCWG21, MRZU14, MCPB15, MGW+21, MJGC13, OGOWW16, PBB+14, QWJL19, SC21, SSY14, SA16, SMG+12, SLRC19, TPT+11, VHM+17, VFFP16, WZGH18, XPY+14, ZLC13, ZWG+13, ZLZS14, ZHV14, vdVBJS15]. **Evaluations** [NiSK21, CLL14, HT14, JGF14, MCPB13]. **evaludation** [AVG14, CLL+15]. **evapotranspiration** [AMRH19, GZK+11, KBS+15, LLM+13, LLC+21, LPS+10, LPX+12, SHT+21, TYEH10, WJK11]. **Event** [Bev15, BNMP11, WGD+17]. **Event-persistence** [Bev15]. **events** [dSCdA19, CTP+17, GCC+10, Jam16, KUK11, NL12, PCTW17, RMvW13, WB16]. **Everglades**
[WMW+12, BGD+15, JDGJ13, MM16, TXM+10, XTPT11]. **evergreen** [Bae18, SMSAN+14]. **Evidence** [BAAB18, BS10b, GYL+13, McC16, SB11, YKL+12, Pér18, PAB+13b, RDD+18, SBCB13, GDC+19]. **evident** [BGGL16]. **evolution**
[BBL11b, CH12, CH19, DR17, Els10, GAC+14, HS13a, HM18b, HQF+17, MV17, PKMH16, RNS+19, SGBD10, SZ14, Sin17, SPWR17, Vav12]. **Evolutionary** [GQRC+17, GMC+19, RKRB16, AMG19, ARV+16, CRO13, CRB16, DVT+10, GKL18, KPM+14, KMKL19, PSWW11, ROC+13, RHR+15b, RHQ+16, RDV+17, Tie11, ZRC+15]. **Evolving** [DHHB15]. **EwE** [HMA10b]. **ex** [ESA12]. **Exact** [CT12, SJTS13, Log16]. **Examination** [RPSA12, GCvDM12]. **examined** [HW12]. **Examining**
[BEZ19, SGKR10, PFA+16]. **example** [AWL+13, BMD18, CLBD+11, DÖWB12, GWC+10, qHLlZ+16, HB12, JTM+17, JBCÑ11, LJ15c, Ned15, PWP+19, PTL14, PPDF14, SSK14, SHB11b, SGHW+17, WAGM17]. **examples** [FDHL17]. **excess** [ENM11, ZJB19]. **exchange**
[BDTV11, KRL+16, KHW+17, KVU+10, KK12b, MKTO19, QlSeZ+10,

RML+15, Wan19]. **exchanges** [DJS10, HBA16b, HAA+21, WRM+11]. **excitations** [DG11]. **exclosure** [LLKY18]. **Exclusion** [LM19, CEWW18, GO15b, MdlP15, RHS+15, RHD+16]. **executable** [VC17a]. **exemplified** [KØ13, WØ15]. **exercise** [HKW+18, KS18, LBZA19]. **exergies** [XWC+11]. **Exergoecology** [TVV13]. **Exergy** [Sci11a, SWC13, AAW+15, BU10, BPD+19, CCC11, CZCL18, CJC11, CRTS15, Hoa11, JZCL14, JC11a, JMSM12, JN14, LBK+13, LRB12, MPT+11, MJB+11a, SZ14, TA11, VFB19, XYCZ11, ZGJ10]. **exergy-based** [CRTS15, LRB12, SZ14]. **existence** [SG11b]. **existing** [EH15, EH19, HLS+14, HKG+17, KR10b, LTL+19, SMBGH+19]. **exotic** [CZCL18, EBL+11, MJB+11a, SZSV12a, SGM+14, TW18, XCG+16]. **expanding** [JJMW14, WJL+13]. **expansion** [GSJ+10, LYL+17, LCPB+10, RHO11, RRJVA13]. **expansions** [LRM+14]. **expected** [FL11]. **experience** [BRM+14, DLL+19]. **experiment** [BGGL16, Gra14, HH12, JG10, MSG+13, RFV+12, TNA+17]. **Experimental** [HD16, Ken19, LWTZ18, MG16]. **experimentally** [MCH15]. **experiments** [BVGR+17, BS10a, DDR+14, For18b, HHK19, LBZA19, LLKY18, MHRB19, PLS+10, PGR+16, RDJ19]. **Expert** [SSD+17, BBH+17, Cha12, CPE13, JBV+15, JKS+10, KCF17, KCF18, KdVRdW17, MSHC13, PSM+12]. **expert-based** [KCF17, KCF18]. **expert-driven** [KdVRdW17]. **expert-selected** [BBH+17]. **experts** [AWF10, MMD+17]. **explain** [FHAG12, FS14b, TBL+15, VAO+17]. **explained** [BMF+11a, BMF+11b, BCC+14, KMKL19]. **Explaining** [MMS12, War10]. **explains** [ACE+17, Loe12, POB18, VH12, WHNR19]. **explanation** [vLTdBP16]. **explanatory** [KPS17]. **explicit** [ARTBB14, BSP12, BEPC15, BJR16, BBL11b, BBH+11, BS16b, BS17, BPN12, CRB16, Che17, DC10, DVF+19, DVCM+10, DVL11, FBKS17, GPZB18, HSHF+13, HHC15, JOHW17, KR10a, LF11, LYC+15a, MLG18a, McC16, MLAT+18, NMT+19, NPJ+17, PKB+18, RMP+18, SBC13, SYL+13, Sto10, Str15a, Str15b, TVF+10, WGT12, WFW+17, WHRR15, WNF+15, WHC+13, ZRC+15, dMSL+16, vdKGV11]. **exploitation** [BAA+14, BLY11, RAdA12, RCP17]. **Exploitative** [BRMW18]. **exploited** [BRL12, CD15, DR17, DML15, MZLCSZdP11, PK16]. **exploiting** [DNFG18, LKDD15]. **Exploration** [Til14, CBB19, Cho13, WLDL12]. **explorations** [Ben12]. **explore** [HM18a, HM19, HMP+19b, JDGJ13, LKH+18, MTZ+10, MV11, MD16, MP17, PDAL14, PTE+12, PHP15, RAB+10, RDD+14, SJGB16, SGWV15]. **explored** [CBA10]. **explores** [WNT+13]. **Exploring** [Ano12s, ChHC12, CAMCK+12, HGE+10, KCF+13, LLZ+15, LGY10, LMBL12, LB18b, MHL+19, MCW13, MDJ+11, MRR+14, Mur12, NOOM+16, PÓF+18, PME+16, RVL+18, Rem11, RHQ+16, RDV+17, WAS+16, WCG+11, dMSL+16, LZS+17, YJW15]. **exponent** [SIS+14, SSR16]. **export** [BH17, LRM+14, SKH+13, XHC+15]. **exports** [DVD+14]. **exposed** [Rai13]. **Exposure** [CKH15, dABLBAdOR17, EGMW12, ECO+14, GV11, KSM+18,

LSGT13, LBS+14, MAP+13]. **expressed** [MSO10]. **extend** [HAOS17]. **Extended** [MLMH18, WSSM15, CN18, FR11, Mer12, Sci11a]. **Extending** [KM12a, LKKK+14, Fat14, GAB12]. **extensible** [VC17a]. **Extension** [RDR+17, AMG19, CBCB17, DDM+17, KWS+13]. **extensions** [SBC+16a]. **Extensive** [FDHL17]. **extent** [FYWA12, VPM+18]. **extents** [YHS+11]. **external** [MMM+16, SCG+13]. **extinction** [BCV13, BSC+15b, CHvdW+10, CMGF14, CRVS13, Flo14, GVGZ+21, HBS16b, Lab11, LKG10, LLH+13, LYC+15a, MM19, Mat13, Pec12, PTA+12, PLHG14, PL10b, San19, SW15]. **extinctions** [SRTS18]. **extrapolating** [HFSL14]. **Extrapolation** [MHRB19]. **extraterrestrial** [KBS+15]. **extreme** [BNMP11, CVV+13, CMGF14, CTP+17, GCC+10, Jam16, YYH19, ZHLZ17]. **extremes** [BTS19, DFW+18]. **Exurban** [PTA+12]. **eyes** [MPF+14].

F. [YWA+17, MAO19]. **F1** [KYvdPS14]. **face** [BMP+19, DHS+16, LLL17, MRCW10, Rin18, RTE+15]. **facet** [Mat17]. **Facets** [Pat14a, Pat16a]. **facilitate** [KK11]. **facilitated** [LMY+11]. **Facilitation** [STJ15, BPN12, GM10, XM13, XZZ+13]. **facing** [DBS18, ISG13]. **factor** [TPO+18, YqWB+15, ZZY+13]. **Factors** [FR11, HJS+16, MSCH14a, MSCH14b, AFC11, CHPS17, CBGK15, CHG+15, CKH15, DK17, DH18, DMZ+19, FBA+11, GSSM13, GCR18, HKlL14, KPT11, LMR16, MHL+19, MHMRAHHS19, MR17, MFI13, PSWW11, PCZ+16, PVB16, QlSeZ+10, RDD+18, SBM+12, Sci11a, UB12, UDP17, VEMS12, XCG+16, CRAP13]. **facultative** [SRHL11]. **failed** [GHWG+14]. **failure** [RGH+13, RBH13]. **false** [BLW+17]. **family** [TT17a]. **Fanjingshan** [AA12, WALCY12]. **farm** [AHS+17, BSASSJ+13, DMB+18, GPM+16a, GWC+10, LJ10, TB19]. **farmed** [HD14, HD16, KGM12, PAGCV+10]. **farmed-fish** [HD14]. **Farmer** [Fai10, KHHN17, VBS14, WYHC15]. **farming** [BBC+19, DMBS11, FLLB11, FDHL17, IGBSASSJ16, SGBD10]. **farmland** [HLLO13a, HLLO13b, KEHG17, ZLW+15]. **farmlands** [MKSL+17]. **farms** [AHS+17, Ken17, RJ11]. **farmyard** [MRP+11]. **Fast** [LH15, WGL+12, HNWT10, MdlP15]. **fast-growing** [HNWT10]. **fastigata** [CN11]. **fate** [BWA17, CAMCK+12, FtHvdB+14, HGWL11, MLS+11, XQZ+13]. **fates** [MDF+18]. **fatty** [SAAD16]. **fatua** [BCL+14]. **fauna** [PLFO+12]. **faunal** [CZCL18]. **favorable** [HHUD14]. **favourability** [BRV11]. **Fayle** [GU11]. **Fear** [HB14, TGKSJ18]. **feature** [MBHW12, PLB16, TTL+18, WFW+17, WKF+17]. **features** [BTPG10, CLBSG11, FS14b, GKF+14]. **February** [Ano10w, Ano10x, Ano11-34, Ano11-36, Ano12y, Ano12-33, Ano13-33, Ano13-31, Ano14j, Ano14s, Ano15q, Ano16e, Ano16h, Ano17-29, Ano17s, Ano18y, Ano18-40, Ano19-39, Ano19-45, Jör11a]. **fecundities** [Dil10]. **fecundity** [DP19, EEFE+11, NLMdL10, PSG19]. **fed** [AJDS16, MTPC13]. **federally** [GKF+14, WZL+16]. **federally-threatened** [GKF+14, WZL+16].

feed [KAJØ19]. **feedback** [AHM+16a, FTYI13, MDJ+11, MCA18, PP16]. **Feedbacks** [BSS+14, Agu11, BGP11, CGM+14, DBVS19, KR16, LL17, NWAR11]. **feeder** [KMRW16]. **feeders** [BPK+16, CN10a]. **Feeding** [SvBH+14, AHS14, FS18, JNHF18, KC18, PKT15, SvdMKS11, SAI10]. **feedstock** [SØB14]. **feedstocks** [HGN+16]. **felled** [CRD+16]. **felled-tree** [CRD+16]. **felling** [OJ10]. **fen** [DBG14b, DBG14a, WMK+13]. **fencing** [ACSR+13]. **feral** [AOW12, IN16]. **fermentation** [PJ16]. **fermentations** [PGG14]. **fern** [SZSV12b, SZV14]. **fertilisation** [RMTM+16]. **Fertility** [MS14]. **fertilization** [CH14, GHS+10, LBdA+19, PRP17, RLS11]. **fertilizer** [BKN14]. **fever** [JVY19]. **FFSM** [LDCB21]. **FIA** [QWJL19]. **fiber** [ZML+12, PGZ+19]. **fidelity** [MBG17]. **Field** [Ano12a, PF18, BCL+14, BvHR+15, DTS+12, DPBK10, FDP+10, GNB+14, GCvDM12, HVL+19, HhLY+19, JG10, JAKJ10, LBM16, NPH+17, RW10]. **fields** [BKN14, BC11, GCK+15, MKTO19, SNS+12]. **fifteen** [CW11]. **Figured** [AA12]. **figures** [Jør14b]. **filiculoides** [SZSV12a, SZSV12b, SZSV13, SZV14]. **Filling** [MWML13a, SBC16b]. **Filter** [HG17, ZCS13, CN10a, HGLZ13, SG11a]. **Filtering** [CC14, BOGA14, FBA+11, LJ15a]. **filters** [LJ15c]. **filtration** [EH15, EH19, KTGH19]. **final** [MPR13]. **financial** [VMP+19]. **Finding** [GMP13]. **findings** [SW11]. **Fine** [MGR+18, ABD+18, CCLX17, GGV10, KMRW16, MCR+15, WMF+13, YHS+11]. **Fine-scale** [MGR+18, ABD+18, GGV10, KMRW16]. **Finite** [MEC14, DBP16]. **Finland** [LSJ+19, mGZK+10, GWK+12, GKW+13, HFU11, LSJ+18]. **finless** [MCL+17]. **Finnish** [KLS+14]. **fiordensis** [JCKG15]. **fir** [KKP+17, LPX+12, WZD+14]. **fire** [AD13, AWWD16, ASP+15, BRR10, BGP11, CADB19, CMSR19, CPD+11, CCL14, CAY+10, CSFR15, DWP11, DSBS15, DPBS10, FMS13, FAMD+12, GLT10, GTM+19, HWE+18, KK10, KDK+10, KCF+13, KHS+19, LM19, LCML11, LHLW15, dMHGA10, MRC19, MMGK15, PMM11, PW10b, RKC+15, SKHH19, SVH+19, SBF15, SGG14, TL10, TT12, TLS+16, UR10, VB10, ZHLZ17, RR10]. **fire-killed** [HWE+18]. **fire-maintained** [LCML11]. **FireBGCv2** [RKC+15]. **FireBGCv2/GrazeBGC** [RKC+15]. **fireflies** [NiSK21]. **firefly** [BNL+13]. **fireline** [MRC19]. **fires** [DBR12, GdTCFG10, TXM+10, WFA10, WSZT10, XTPT11]. **First** [Ano13u, BLH10, CGV+15, GAC+14, SFvdM+17, ARTBB14, ABGB15, GBD+10, VMP+19, WHC+13]. **first-order-based** [WHC+13]. **Fish** [DTC+10, FIG+10, MR10, PC17, Pen11, QWJL19, SM13, BAAB18, BAA+14, BSASSJ+13, BR16, BGC10, BPB14, BRS+18, BSO13, CRBC11, CW17, CRUF13, CBCB17, CWA+15, CD15, CSL+12, DFL+16, DC10, DATI10, DPPI14, DR17, DA19, DGKSM13, FE14a, FTTV+18, FDM+11, FPG11, FPWG14, GDTP13, GV11, GMTC+17, GHH+15, GCL+19, HD14, HTL+14, IPSH14, IGBSASSJ16, JDP+12, KFWM19, KHW+16, KUI+18, KTK+15, KBL10, KEM+16, KK15b, LHZ10, LCCL15, LWY+11, LMCA+12,

LCTH12, MSP+13, MWK19, MAC14, MGCL17, Md18, MMRS+19, MSCH14a, MSCH14b, MDV+12, MCP16, MN12, MMMCAHM21, NL12, ODK16, PH18, PGKG12, PGATS13, RHW17, RKRB16, RMHE15, RSD+15, RDD+14, RPP+15, SAAD16, SFC+12, SGH16, SSM+13, TSN15, TL15, TTCC+19, VSF10, WL13, WhFxGZ16, WAGM17, WFN+16, WZL+16, YDT+13, ZSG12, ZZ17, ZHV14, ZVS18]. **fish** [dMSL+16, dMLM+17, vDHH+13, vDHH+14]. **Fish-Fisheries** [SM13]. **Fisheries** [SM13, AdMC+13, AHM+16b, BWRA16, CGLA10, CF17, CJR+16, CMCASS12, CMCC15, DPR10, FSM+19a, HCE+19, IGR+18, IS13, IGBSASSJ16, KSAS12, KMMS17, MTZ+10, MMD+17, MKL14, MSM+16, NOOM+16, NCEGB16, PBEL17, PGV10, ROSC15, RvS16, RUSL19, RKNO17, SLW17, TLP17, VQS+18, WHRR15, ZCR16, dMSL+16, dMLM+17, vDHH+14]. **Fishermen** [vDHH+14, WMCM12]. **Fishery** [WLDL12, ACE+17, CRA+11, DBS18, GPR+13, GYL+13, IKL13, ISG13, JBCÑ11, LDO+18, LJ13, LMBL12, MROGVR12, MTGD17, PLS+16, PPDF14, RAB+10, TSN15, TSN17, WKZ+19, WMCM12]. **fishes** [FBB+18, FBH+14, JD18, KC18, NCMF10, NMA+19, NiSK21, PWBG16, SMT19a, SMT19b, VEK12, WCF+16, WC19, XWW+11]. **Fishing** [dSdCF10, BWRA16, BS13, CGLA10, CSF11, CSS+16, FLLG13, FTTV+18, GH13, HPC13a, HPC13b, JBCÑ11, PKG16, RMR+16, RMHE15, SGH16, TSN15, TCH+13, VRM+10, WDL+15]. **fit** [BG19, SP10, WZL+16]. **fitness** [DSJ19, Hel10, KH15, LJB12, Log16, ŠK14, YTT+11]. **fitted** [CRD+16]. **Fitting** [DAP18, HTB13, HTB17, ČTT+12, YSB11]. **Five** [GSA+19, BDL+14, GdSHA10, SW19, TBM+14, YSA+14]. **Fixed** [LJ13]. **fjord** [JCKG15, MTPC13]. **FL** [RWvDM15]. **Flanders** [EBL+11]. **flat** [COK+11, MB14]. **flatwoods** [WSBP13]. **flavescence** [LPPA15]. **fleet** [ISG13]. **Flexible** [CSOS17, HB13, MMD+17]. **flies** [ABR12a, DATI10]. **flight** [RDJ19, ZSS17]. **floating** [MXC13, McC16]. **flock** [LJ14, ZSS17]. **flocking** [KKI+14, ZSS17]. **FloMan** [DA17]. **FloMan-MF** [DA17]. **flood** [BNMP11, CSN+19, CGGL16, CMLY19, DVF+19, LMCA+12, WP14, XLS11]. **flood-pulse** [CSN+19, CGGL16]. **flooded** [BBDB13, KRL+16, SKH+13]. **flooding** [CLH17, HR11, LCP14, MGR+18, WYS12]. **Floodplain** [DA17, BRKP16, DVF+19, GAP+19, LKH+18, WYS12]. **floodplains** [WRSL11]. **floods** [CHTC11]. **floor** [JAH+10, ZJM+11]. **floral** [GPA+13, MHTC15]. **Florianópolis** [dHR18]. **Florida** [WMW+12, CAMCK+12, DA19, DWP11, MM16, YSB11]. **Flow** [CNI11, AAW+15, AHNK13, BPK+12, CT16, CD17, CZW10, CCL+13, CDT10, DLCR13, DWP13, FAC+19a, GHH+15, JD18, LBD10, LBW18, LWY+11, MLY+19, MNK+21, MB17, MGWW13, NL12, SBVA+13, SLB+18, TNHB12, VLZ+19, WWC+18, WZL+16, YM21, YY11, YLW+11, ZWJ+12]. **flow-dependent** [GHH+15]. **flow-quantified** [BPK+12]. **Flowering** [KR14, JX15, KKL+12, RPGA15]. **flowers** [SGM+14]. **flows** [ALL11, BPD+19, CZ11, CGEdM12, GRRU15, Jag14, JHH+12, KAJØ19, LKLK15, LCT+17, MGR+18, MRZU14, PPB+18, Pat15, PCB11, SS11,

WFM16, Yan11, YYQ11, ZPZ+15]. **Fluctuating** [vDHH+13, CEC10, GEB10]. **fluctuation** [QWJL19]. **fluctuations** [BLRN15, PRL+13, RPGA15]. **fluid** [DWNN10, DBP16, HSvO+18]. **fluminea** [GCDA16, HFH+19]. **Fluvial** [GJM+13, OOH+12, WL13]. **Flux** [KHKC+18, LXS+16, Bai18, CSS+19, GKW+13, HCL+14, LYJ+15, LHR+15, MPL+16, PD15, QlSeZ+10, WZD+14, XKI+11, XGH+17, ZZB+18]. **Flux-Based** [LXS+16]. **fluxes** [BSASSJ+13, CSH13, HMS+11, JD10, JNC+11, KMM+13, Lin15a, MLH+17, RHZ+18, SMH16, WR18, WJK11, WJvdL+13, ZZ17]. **fly** [LDM15b, MRES17, Pec12]. **Flycatcher** [BSP12, HPS10]. **flying** [RDJ19, TDF+19]. **focal** [BPK+16]. **focus** [CGL15, GRB12, HFMM+12, OOFVBC16, VRL18]. **focused** [LHH12]. **focusing** [VRC17, WBS13]. **focussed** [LVB+15]. **foliage** [CRD+16]. **foliar** [LBR+17]. **following** [KWGG19, LCH12, OGG+16, PvVC15, RR10, WFM16, YHK+19, ZKSF17]. **Folsomia** [HFSL14]. **fonticola** [MGWW13]. **Food** [BRPK14, CGGL16, DGKSM13, ESLJ18, FSML11, TCH+13, ABAG14, AdMC+13, BNMP11, BFP+18, BCV13, BSH17, BQF+18, BSZ+11, BPK+12, CEC10, hCjHMW18, CKS+17, CPS+19, CPS15, DCZ+15, FE14b, Fuj16, GLC+15, GYL+13, HBS+16a, HMP+19b, HCL+16, Ju19, KKH+17, KSAS12, KEM+16, KHL+16, KHHN17, KCC16, LJR14, LSR16, LBSB+14, LLKY18, LCTH12, LLFL12, MKL14, MDL+10, MSFR15, NOOM+16, NCMF10, NCEGB16, NMC+14, NMS+14, OGG+16, OHS+17, PJ17, Pea15, PLS+10, PTL14, PICR13, PMBB+16, RGU+15, RBM+17, RSE10, RMR+16, SVD+13, SBVA+13, SGAS14, SBR+19, SFHK12, SKM+16, SCG+13, SS11, TPL+15, TM12, TRD+15, TNHB12, TVV13, VASH+16, WLY+15, WTWS19, WYY+19, WSE10, XZCL16, XYTS19]. **Food-Energy-Water** [Ju19]. **food-for-protection** [WSE10]. **Food-web** [BRPK14, TCH+13, BSH17, CPS+19, GLC+15, HCL+16, LJR14, LBSB+14, MDL+10, OGG+16, OHS+17, PTL14, PICR13, SKM+16, TRD+15]. **foods** [KNU+15]. **foot** [DVL11]. **foot-and-mouth** [DVL11]. **footed** [CAMNN16]. **Footprint** [NGR+11, FCH+17, GWZ+15, LZJ+19, SWC13, WFSH15, ZTL+17]. **footprinting** [PMH17]. **footprints** [FDR+17, LDYL18]. **Foping** [LCS11]. **forage** [AHF+13, KMRW16, KEM+16, KK15b, KLGL19, WCF+16, WC19, YDT+13, dJGM+18]. **Forage-SAFE** [dJGM+18]. **forager** [LDS14, RAdA12]. **foragers** [BPWB14]. **Foraging** [BPM+17, MCN16, MYJ+14, BPM+15, BPWB14, CAMNN16, DHC16, EIG+10, HFMM+12, KKI+14, LGMLD19, LJ14, LDB14, LTGD16, MHTC15, MSH+19, MvDL+10, MRES17, OE12, OBSL15, RJ11, Rin14, SRP18, SGA+16, TGKSJ18, VSPHS15, War10, WCG+11]. **foraging-bioenergetics** [DHC16]. **force** [CWLL15, LJ14]. **forces** [JGB15, PBD19, SGBD10]. **forcing** [HPRNP12, JSB+14, MBD+18, MGS16, MCN16]. **forecast** [ABR12a, CHG+15, RXSK14]. **Forecasting** [CVM+18, DFH+14, Hui11,

CRB16, FCH+17, MPP+15, RSC12, RSC13, ZRC+15]. **forecasts** [CDM13]. **foreland** [LJCG15]. **Forest** [CPS+14, CSFB17, DMDJ13, FMF12, FAPM12, HSK17, PP16, SKTG11, ZHLZ17, AD13, AMF12, ABD+18, ACM15, AD16, Ant14, ARM+12, BFA11, Bae18, BSC+15a, BVC+18, BPS+11, BLD+10a, BlMG+11, Ber13, BSS+14, BS16b, BW12, CZC+15, CPR10, CAC+16, CSH11, CLL+15, DDM+17, DVF+19, DCMK11, DYMYGO19a, DYMYGO19b, DBG14b, DBG14a, DH12, DLL18, ENC+15, FAMD+12, FBdP+16, FSS+17, FAS+19, FCA18, GLA11, Gar17, GBG+15, GZK+11, GVV+16, GCK+15, Gra14, GRL18, GSS+14, GS19c, HMS+10, HS11, HJS+16, HBG+16, HR11, HKN17, Hol13, HWL17, HOŠ+12, HNWT10, HAA+21, JAH+10, JNC+11, KWH14, KAF+14, KUK11, KLS+14, LJLC15, LJAD17, LAD11, LKLK15, LTL+13, LZ10, LHW+15, LLH+17, LDP14, LCZ11, LNB17, LSP+10, LL18a, LHR+15, LDCB21, LM19, Log19a, LSR13, LHLW15, MKH+17, MBHW12, MBSF14, MAC+12]. **forest** [MWML13b, MdMS+19, MP17, MOM+11, NB11, NBD+13, Oga11, Oga17, Oga18, OWMK10, OKS+11, OLG+13, PSWM+10, PMS+17, PBO19, PMB+19, PHC10, PD12, PGK+13, PLS11, PFR15, PGA+11, RFV+12, RHZ+18, RKC+15, RV15, SMSAN+14, SHT+21, SSV+12, SHB+11a, SPR+18, SFF+11, SRSS12, SHX+12, SKMB11, SHM+14, SVH+19, SSK14, SMH16, SBPZ12, SPG11, SYY+19, SMBGH+19, TCSG15, TL10, TT12, TNA+17, TYEH10, TLS+16, UKI+11, VAB+18, VHM+17, VALC12, WFA10, WPZ+11, WGA+11, WGA+12, WGA+13, WSL17, WJvdL+13, XKI+11, YHS+11, YYH19, YBA+16, YZA+18, ZBAY14, ZJM+11, ZLB14, ZXD+13, **?**, dBGS+14, vGKB10, Kos17, VZF+11]. **forest-fire** [TL10]. **forest-floor** [ZJM+11]. **forest-grass** [SYY+19]. **forest-grassland** [RKC+15]. **forest-wood-chain** [PSWM+10]. **forest-wood-chains** [LSP+10]. **forested** [DBG14b, DBG14a, GTC16, LW14, ZJM+13]. **ForestMAS** [KGD14]. **forestry** [BHPF14, GGSP14, HCS+10, MDKK15]. **forests** [AKvO+10, AMR16, ABC+17, BHD16, BFH14, BS17, Bre12, CVV+13, CNH+11, CCL14, CPS+14, DBG14b, DBG14a, DH12, ESP+17, EKB18, FBdP+16, FT16, FPG+10, Gat18, HMP19a, HMS+10, HSVL12, KGYG15, LBdA+19, MLC+16, MVC11, MK12, MWML13a, MPL+16, MCG19, MJF19, NB11, PDD+18, PGA+11, RJH+10, RWFD13, SSK14, SNZ+19, THJ+12, TDH12, TLRL11, ZLB14, SHB+11a]. **Fork** [MSB+17]. **form** [LLCR11, MSG+13, XZSL17]. **formaldehyde** [LLC11]. **formalism** [RHR+15b]. **formation** [BH17, BdCS11, BEBA19, CKS+17, CSS+17, KCB+17, Mer12, PLS11, VRC17, VRL18, VAO+17, WZWL10, XJY+16, ZML+12]. **forming** [JGB15, MG18, MHG18, WFW+17]. **Formosan** [BCTL16]. **forms** [BMCG12, OOH+12, Rai13]. **formulate** [GDBB19]. **formulation** [DFM12a, FDM+11, KTGH19, KCB+17]. **formulations** [ZJM+11]. **fornicata** [MG18, MHG18]. **fortunei** [dÁSMRT+19]. **Foshan** [HJ17]. **fossil** [Cam15, RMGU11]. **foster** [BMD18]. **fountain** [MGWW13]. **Four** [LFH+15, FKK+18, FCV+12, LBZA19, MCR+15, SBDA16, WKZ+19,

ZYFL10, ZZFH15, ZQC15]. **Fowler** [MBG17]. **fowleri** [MBG17]. **foxes** [BG15, MS14]. **FPAs** [HCE+19]. **fractal** [Flo18, GM10]. **fraction** [dSCdA19]. **fractional** [JA15a]. **fractionation** [Vav12]. **fragile** [BCV13, GPJL15]. **fragility** [Kei12]. **Fragment** [VAO+17]. **Fragmentation** [GTM+19, PGA+11, CPR10, CLDRJ18, LLH+13, RMvW13, YGL18, YMCV21]. **fragmented** [CHNdÁP18, KK11, KCAP17, PGATS13, RCSS13, RKBG14, TdS12, VSPHS15, XSL18]. **fragments** [MP17, PGA+11]. **frame** [WJS+18]. **frame-based** [WJS+18]. **framed** [ZPZ+15]. **Framework** [BMU10, ACKS13, ACE+17, Ano12t, BEPC15, CF17, CB15, CAY+10, CSR15, CLNN14, CN18, DWNN10, FP17, GLC+18, GPM16b, GDW12, HFU11, HOKH18, IBH+15, JSH15, JMB+11, LZL+18, LL18a, LYCZ13, LYC+15a, LB18a, MRD+12, MK19, MJLC14, NMT+19, OJ15, PWBG16, PRP17, PDD+18, RJ17, SWZ+12, SML12, SLRC19, TMPF18, TMT+18, UB12, WHH+18, dOAC18]. **France** [BMD18, BGPJ10, DJMBD+13, GSPSP15, PLR+13, SB15]. **Francisco** [DWP16, MLS+11]. **Fraxinus** [KKR19]. **free** [CCSF11, JLN10, MGW+13, MK19, MHY+15, OSS13, RWvDM15, YRGH16, ZWJ+12]. **free-living** [CCSF11, RWvDM15]. **free-roaming** [YRGH16]. **free-surface** [ZWJ+12]. **free-water** [MGW+13]. **freedom** [RRH+19]. **freeze** [OQH+13]. **French** [DBS18]. **frequency** [AB10, BBRJ15, CLNN14, PSB+17, ZPZ+15]. **fresh** [CN10a, CTNH13, ZW10]. **freshwater** [ABD14, CRB16, CLW+19, CSR15, DWNN10, DWP13, FP17, HCE+19, JTB+19, JCKG15, KFWM19, KM12b, LKAY15, LZYH19, MWK19, McC16, MMMCAHM21, NiSK21, PCRP12, PNT+19, SAAD16, SQWS19, TL15, VEK12, VJR+16, WKZ+19, XWW+11, ZJL+14, ZZ17]. **Friction** [LJ14]. **frog** [ACCM16, DA17]. **frogs** [NiSK21, PMF+13]. **frondosa** [DZS12]. **Front** [Ano17m, Ano17n, Ano17o, Ano17p, Ano17q, Ano17e, Ano17f, Ano17g, Ano17h, Ano17i, Ano17j, Ano17k, Ano17l, Ano18x]. **fronted** [LSJG17]. **frontier** [FAT+15b]. **fronts** [PMTKC17, Rin18]. **frost** [RJH+10]. **frosted** [WSBP13]. **frugal** [AADA14]. **Frugivory** [MLMH18, BNGP19]. **fruit** [ABR12a, BHD17, BGGL16, KL10, MCBM12, PDG+14]. **fry** [RLHD11]. **Ft.** [DÖWB12]. **fuel** [BRR10, Cam15]. **fuels** [DSBS15, PMM11]. **Fukuyoa** [KDT+17]. **fulfillment** [RHR+15c]. **full** [CXW19, DMB+19]. **fully** [WAGM17]. **fully-stochasticized** [WAGM17]. **Function** [CLBSG11, BPS+11, CBR+16, Fis21, KB18, LCM11, Lem16, MSG+13, SBVA+13, SGG14, SH18, SGKR10, YLC13]. **Functional** [MY11, TM12, ADJ+17, BBL+17, BSO13, CBB19, CN10b, EFM+10, GANB11, GWF+18, HBR19, HGAT17, HBA16b, KCLL14, KEM+16, KB18, KLGL19, LDO+18, LHZ10, LBK+13, LDB14, MV11, MYHN17, NOOM+16, Rai13, RHD+13, SJGB16, SA16, SGB10, VCD+17, VPC+14, WZWL10, WUB15, WR18, WJvdL+13, YJW15, ZPZ+15, dVLS11]. **functional-structural** [BBL+17]. **functionality** [AYASR+17, CRO13]. **functionally** [RMLTCQ+19]. **functioning** [ALC19, Bre12, KHL+16, KL12, OGG+16, OCCF17, PTE+12, SMG+12, TGB+17]. **functions**

[AAJB21, BJPB11, CLLB12, LVB+15, LKP13, SBVA+13, TF13, VSF10, VFFP16, Wil12]. **Fundamental** [MLC+16, JSCS19, WAS+16]. **Fundamentals** [Jør14a, Jør14b]. **fungal** [BCD12, CLLB12, COBF13, MBLC14, STSA10]. **Further** [Ben12]. **fusing** [CCLX17, CGG+18]. **fusion** [RHZ+18]. **Future** [RCS+19, SP11, BKP10, Bar11, BUB+12, BWP16, BGPJ10, BFKS16, CCF13b, CHK+12, DAF+11, EEFE+11, FMBD15, FRM+19, FCLFB18, GAP+19, HGE+10, HPC13b, JVY19, JFS+12, KBS+15, LRM+14, LTL+19, MBD+12, PAS+10, PKD11, PGS16, Pra12, RKW12, SLSS15, SBC13, SWR+16, VLF+17, WZG15, ZJP+11]. **futures** [MTJF11b, SBF15]. **Fuyang** [YLC13]. **Fuzzy** [AWF10, CMH14, CPAG15, GCV14, HA18, dAEPE16, CC10, CCSF11, FDM+11, GEPCB13, HLW15, HL19, JKS+10, LGDW12, MSHC13, MMMGLN+18, PAEE19, Pra12, RFV+12, SGRAdJ17, vVHZHvD13, CBGK15].

G [Jør14b, Pat10]. **GA** [DÖWB12]. **Gabes** [HBS+16a]. **Gadus** [IKL13, JNHF18, PWK+17, SLRC19]. **gain** [Sim11, WHNR19]. **gaining** [DPLC13]. **gains** [FMLM11]. **Galemys** [BRV11]. **Galing** [LHL+17]. **gall** [GPTR13, PFP+16]. **gallery** [RV15]. **Gambierdiscus** [KDT+17]. **Game** [MRM16, Che10, CB15, GKL18, HLL+19, LR16, MN12, RE10, SM11, ZMMHR10]. **Game-theoretic** [MRM16]. **games** [SGSR10]. **Gammarus** [KMS+12, KMS+13]. **Gangetic** [SVL12]. **Gap** [HSVL12, AS12, BTPG10, BS16b, DLW+17, FBdP+16, FSS+17, HB12, KWH14, LSJ+18, LSJ+19, LAD11, LMT13, MWML13a, RFZB12, SvBH+14, SCG+13]. **gap-induced** [AS12]. **Garden** [YZLX14]. **Garonne** [GSPSP15]. **Gas** [MKTO19, BPU11, CC11, IKH+11, TB19, WC13a, WC13b, YC13, YFL+18]. **gasoline** [BB10]. **gastro** [RWvDM15]. **gastro-intestinal** [RWvDM15]. **gastropod** [MG18, MHG18]. **Gauging** [AMH16]. **Gaussian** [MDH15, VVH12]. **GCM** [PAS+10]. **gDefrag** [MAB19]. **GDV** [YL18]. **gear** [vPTOW18]. **Geese** [LSJG17, CAMNN16, SSD+17]. **GEM** [SELB10]. **Gemini** [SMG+12]. **Gen** [ARV+16]. **gene** [CJC11, CDT10, CDT10]. **general** [BLD+10a, BRS+18, JGF14, KWGW19, LBGM19, Mob18, Pat16a, SR14, SAAD16, SMS+13]. **Generalised** [LJWN14]. **generalist** [VWTA16]. **generalized** [For18a, MROGVR12, MK19, PRHH13, PHP+14, SBA+19]. **Generalizing** [AGQP+14]. **generally** [KB10]. **generate** [dAdSC15]. **generated** [LJ15a]. **Generating** [SG11b, BPU11, HKVD16]. **Generation** [Dil10, VC17a, GB16b, GB16d, IBH+15, JDT+16, SLW17, SJB+16]. **generators** [LTL+19]. **Generic** [CLLB12, SELB10, BCD12, Con14, JSH15, LAB+10, MBA+19, SH14]. **genetic** [BAAB18, BCL+14, CN11, DR17, FDM+11, KvOP10, LWY+11, PP12, SZSV13, SNZ+19, YZPL16]. **genetically** [CDL+11]. **genetics** [CS17, MPP+15]. **genome** [LMSK12]. **genomes** [GHD+19]. **genons** [AG14]. **genospecies** [WGSR19]. **genospecies-host** [WGSR19]. **genotype** [PDG+14]. **genotype-dependent** [PDG+14]. **genotypic** [KCLL14]. **genus**

[KTV+15]. **Genypterus** [CRQW18]. **geo** [ZCL+16]. **geo-process** [ZCL+16]. **geobiosphere** [BU10, BPU11, BU16a, BCUF16, BCDU16, DBSA16]. **geoduck** [HlLB12]. **geographic** [BRV11, CAY+10, DNFG18, LdMS+16, LGDW12, SCG+13, ZCL+16]. **Geographical** [AAO10, Kos17, WFA+13]. **geography** [WLC+19, NGR+11]. **geolocate** [WFN+16]. **geolocation** [NMA+19]. **Geometric** [WHC+13, AS11, YTT+11]. **geometrical** [PFSF14, RSE10]. **geometry** [FCA18]. **geomorphic** [LDC+16]. **geomorphological** [Bev15]. **GeoPetri** [SH18]. **geophysical** [TQZ12]. **geosmin** [HD14, HD16]. **Geospatial** [AD16, LZ10]. **geostatistical** [BL15, HEJP17]. **germination** [BCL+14, GDC11, MOMC17, WXB10]. **Getting** [Pat14a, Pat16b]. **Ghana** [KCF17, KCF18]. **Giant** [GFW+17, YL17, ATCJ+19, CLW+19, FLX+14, LLL+10, LCS11]. **giganteus** [MWD+15]. **gigas** [GBB+11, ZBMBDU+17]. **gilthead** [PAGCV+10]. **GIS** [ARTBB14, CVPR+16, COK+11, FTK+14, FRV+16, LdMS+16, LLH+17, LGDW12, MRZU14, PD12]. **GIS-based** [PD12]. **GIS-maps** [ARTBB14]. **GIS-tool** [FRV+16]. **glacier** [LJCG15, MTPC13]. **glacier-fed** [MTPC13]. **glaucogularis** [HBT+18, MFB17]. **Glaucomys** [TDF+19]. **gleaned** [LDCB21]. **Global** [CVG+15, DAA+12, HBL18, LKMCW14, LWKS10, MSCH14a, MSCH14b, RDD+14, WMF+13, YZG16, ZSF+12, Abe10, ARTBB14, BLD+10a, BlMG+11, BH13a, BSC+15b, BPU11, BU11b, BU16a, BU16b, CLL14, CY13, CJR+16, CAMCK+12, CN13, DMR13, DSM+12, DPLC13, DBS18, GCDA16, GB16a, GHP12, GPP+19, GLS+17, HN14, HHK19, HBA16a, HEJP17, JDT+16, JMSM12, KVS17, LDP14, LCPB+10, LSM19, MDOJ14, MLG+18b, NP18, OQH+13, PD15, PMCKH13, PBFS14, RvS16, RKS+10, RA13, SVD+13, SLLW15, VPS10, WTC+18, WLS+10, WLS+11, XHC+15, XBvdV+14, XGH+17, YqWB+15, YJL11, YFC+11, ZJL+14]. **globalizing** [KR10b]. **globally** [RKL+15, ZWG+17]. **GLOF** [MTPC13]. **GLOWORM** [RWvDM15]. **GLOWORM-FL** [RWvDM15]. **GLUE** [OKS+11]. **GNESFA** [CGV+15]. **goal** [Bin17]. **goals** [BA17]. **gobio** [KDMPC10]. **Going** [TWS+11, RA13, ZCL+16, dSJHG10]. **golden** [BCP15, LML17, dÁSMRT+19]. **Gompertz** [Ned15]. **gone** [AG14, TWS+11]. **Gonghu** [GSQ17]. **good** [SKM+16]. **goose** [JJMW14, WK17]. **goral** [SK11]. **Gorges** [CMLY19, MLW+15, SRXP14]. **gorse** [RPGA15]. **Gossypium** [AS11, ZML+12]. **Gotelli** [FM11]. **governance** [MSM+16]. **governed** [CTP+17]. **government** [PKT15]. **Gower** [MdlP15]. **GPS** [ACC11, PR13, WBG+14, ZSS17]. **GR3D** [RDD+14]. **gradient** [ENC+15, FGPR10, GA15, GLRT16, LLQ+15, LJCG15, MML+11, MKF+11, OBLJ13, TLL+15, WMK+13, ZLW+15]. **gradients** [CBB19, DFD11, MSG+13, MBW14, MJLC14, PICR13, SFB+15, XWC+11]. **Graham** [Hat14]. **grain** [DFF17, GAHE11, LVB+15, SBC16b, WTL17]. **Gran** [CMCC15]. **Grand** [Bec10]. **Grande** [RR10, WLH+10]. **grani** [CEC10]. **grape** [GPM16b, PDG+14]. **grapevine** [JASW18]. **graph**

[AMM+14, CC12, DMDJ13, KP13, MAB19, RBRK16, TLW+14, VBS14]. **graph-based** [AMM+14, MAB19]. **graph-structured** [CC12]. **graphics** [TB11, TB12a, vdKGV11]. **graphs** [KPS17]. **Grass** [BGP11, AWWD16, EEB+17, JBB+11, JBB+12, KAJØ19, PLL+19, SMKM19, SYY+19, YLL+17]. **grass-clover** [KAJØ19]. **grasses** [DAW+10, TBA19]. **grasshopper** [ZJL+16]. **grasshoppers** [BG11]. **grassland** [BSS+14, EST+19, FDHL17, FBDZ12, GvdWBS11, GCW+16, HYG14, HW12, HVCP16, KPMJ14, LLM+13, LWL+17b, RSP+17, RKC+15, SDT10, SHBG10, SAW+11, SLH+11, SRV+12, SMG+12, TFH12, WJ15, XLL15, YSA+14]. **grasslands** [BRPK14, CRAP13, LKH+18, MPG18, MBA+19, TDC+11]. **Grassy** [DPBK10]. **gravity** [PMLL11]. **gray** [SGDP19, YLC13]. **GrazeBGC** [RKC+15]. **grazer** [KMRW16, PRHH13, PBG+17]. **Grazing** [CRAP13, HLZ+18, PLL+19, ABR12b, ABR12c, DWP16, EMH10, FBDZ12, GBR+13a, GLRT16, GWF+18, PAT17, RVNB11, RP11, SDT10, WJ15, ZAW+18, vLTdBP16]. **Great** [KBS+15, LRM+14, LRZ12, SSF14, MAM+12, CDK+17, DS12, GPR+13, HBR19, KPT11, NJCF11, SSM+13, TLW+14]. **Greater** [LSJG17, GO15a, KDT+17]. **greatest** [HKM+18]. **Greece** [BC11]. **greedy** [SZSV13]. **Green** [ACC+10, MSS+19, HMP+19b, HJ10a, KSS11, KKR19, LCP14, LCP15, MGR+18, MRP+11]. **greenery** [MPM+15]. **Greenhouse** [CC11, YC13, LHB+18, TB19, WC13a, WC13b]. **greenhouses** [LCAJGFNS14]. **gregarine** [LJB12]. **Grey** [JWLS17, THOA10]. **Grid** [BHD17, Slo11, VLF+17]. **grid-based** [Slo11]. **Grids** [Gia14]. **grip** [BPM+17]. **griseifrons** [TDF+19]. **gross** [BSC+15a, GGZ+16, LLY+13, LZZP16, RHvdTS14, SMC11, YqWB+15, YLY+18, YCL+14, ZZFH15, ZZB+18]. **ground** [HSCS14, MTA19, MCBM12, MVC+17, MVC11, PKG16, PLB16, SHM+14, SBC+11, VHM+17, VALC12, XGH+17, YKL+12]. **grounded** [BGG16a]. **groundfish** [MTGD17]. **grounds** [ZSG+18]. **Groundwater** [SPR+18, BKB10, BvBB10, LZS+17, XLS11, YL18, ZSKI17]. **groundwater-dependent** [YL18]. **groundwater-mediated** [ZSKI17]. **Group** [TAT+16b, Bin17, BEBA19, HTVE18, MYHN17]. **Group-based** [TAT+16b]. **grouper** [CNI11]. **grouping** [DFD11]. **groups** [ABGB15, BSO13, DBH+17, FAC+19a, GCIB10, HBR19, KJVL+17, NMS10, RV13]. **growing** [HNWT10, NP15, YSA+14]. **grown** [GLS+17, KYvdPS14]. **Growth** [BBA12, FKDG14, GCvDM12, AMF12, ANMJ12, AWL+13, ACE+17, AK17, ACM15, ARM+12, AMR16, AB13, AS12, ASV19, BDL+14, BAB+16, BC12, BBL11a, BMCG12, BFH14, BOF+16, CCS13, CCCP17, CADB19, CRO13, CEWW18, CBCB17, CSOS17, CL10, CS18, CLW+19, CN13, CPS+14, CRQW18, DZW+11, DHC16, DLCR13, Dil10, DS21, Dol10, DSS11, ESA12, EC10, FKH+15, FAT+15b, GPK+13, GBP+16, GPR+13, GJK+15, GS19c, GCM+13, HJ17, HTB13, HTB17, HlLB12, HW12, HBT+18, HVCP16, Hos11, JR16, JG10, JASW18, KTK+15, KDT+17, KDMPC10, KPT11, LBZA19, LLB+19, LBE+17, LSA+19, LKH+18, LWKS10, LTL+13, LZZ+14, LHP16,

LJWN14, Log19b, yLWhMhG11, MDW+12, MJL+17, MTA19, MKTO19, MRB14, MIC14, MSF18, MPGCS14, NYIH17, NBK+11, NJM11, NB11, NBD+13, OE12, OMH12, PAB13a, PRL+13, PM16, PGGMMA19]. **growth** [PFR15, RFZB12, RLS11, RBH13, Sak13, San19, SBDS13, SMT19a, SMT19b, SLZ+18, SMS+13, SIS+14, SCHGM16, SFR+17, SML12, SMH16, SBPZ12, SV13, TCSG15, TF13, TKH17, TJYZ11, TT17a, VMG+12, VFFP16, WPZ+11, WCL+17, ZRC+15, ZZZW15, ZWJ+17, dAdSC15, RCC+11]. **growth/decline** [MKTO19]. **Gruza** [RRR+10]. **GSM** [HD14, HD16]. **GSS** [WHC+13]. **Guacu** [CSFB17]. **Guadalquivir** [RML+13]. **guanaco** [ZSSR18]. **Guangdong** [LHL18]. **Guanting** [HFB+11]. **guaranteed** [AdMC+13]. **Guatemala** [CPR10, LCDJ+12]. **Guiana** [DBS18]. **guianensis** [KCKdOW12]. **guide** [FCLFB18, TL15, WK17, ZKR+13]. **guided** [HS13a]. **Guidelines** [SED15, PGR+16]. **guiding** [CF17]. **guilds** [HKL+11, LBK+13]. **Guiyang** [FDR+17]. **Gulf** [DUASLB+12, BDV+19, BLLJ17, DBVS19, FHL+13, HBS+16a, HHC15, KWGG19, KK15b, LLC+17, LMGW16, MAC14, NCMF10, PDAL14, SLW17, SLRC19, TCH+13, dMSL+16]. **guttatus** [CNI11]. **GWLF** [NKSA13].

H [KMM+13, Wei19, LKLK15, PJ16]. **H5N1** [TZD+15]. **H7** [SFvB10]. **H7N9** [ZWA19]. **Habitat** [FHG12, HPJ15, HBS16b, MCL+17, PMS+17, AMM+14, AWSS14, BKP10, Bar11, BJJ12, BBGJ13, BS10a, BTPG10, BOW+12, CRBC11, CEWW18, CH12, COK+11, CLDRJ18, Cra10, DFL+16, DWD19, DPvBvA11, DFK+11, DKJH13, DP19, DHS+16, DF13, FLX+14, FSV+12, FYR+18, FDM+11, FPG11, FPWG14, FWRZ10, GCDA16, GM10, Gli14, GAHE11, HHUD14, HPS10, Hat14, HSTS19, HHL17, JJKJ11, JFS+12, JHHS17, JGB15, KK13, KC18, KBL10, KNM+10, KASS12, KPTC14, KMP14, KK12a, LN11, LM13, LMSK12, LBE+13, LJ10, LCCL15, LLH+13, LPSC16, LML17, LLL17, LZW+17, LLL19, Loe12, LGDW12, MTZ+10, MAM+12, MAC+12, MRD+12, MHMRAHHS19, MP13, MSV+11, MGB13, MRR+14, MSHC13, MMRS+19, MDV+12, MMMGLN+18, NWAR12, NiSK21, PCRP12, Pec12, PGR+16, PBG+17, PL10b, PPBD13, RKBG14, RH15, SZSV13, SZV14, SC21, SCHQA16, SGA+16, SMH+12]. **habitat** [SLY+17, SK11, SFHK12, SGDP19, TRP12, VRA+17, VWTA16, WL13, WTG+16, WBG+14, WhFxGZ16, YKL+12, YWY10, YGL18, ZCY+19, ZPNM13, dSJHG10, vSGR16]. **habitat-based** [MRR+14]. **habitat-forming** [JGB15]. **habitation** [NWAR11]. **habitats** [BPC+17, BvHR+15, BAT+15, CTC+18, FAC+19b, GAG+12, HAOS17, KK11, KL12, SBA+19, SRP18, TRD+15, WNF+15, WLR+11, YDT+13, ZJL+16]. **Hablehrood** [KSSA13]. **Haematopus** [SGA+16]. **Haemorrhagic** [KGM12]. **Haihe** [YLC13, MLH+17, WFSH15]. **Hainan** [YDZ+21]. **half** [MH11]. **Haliotis** [LJWN14]. **Hall** [Wei19]. **hampei** [RCGC17]. **Han** [KLS17]. **Harbor** [SHS+12]. **harbour** [NNST+14]. **hard** [HC11, Jør14a]. **hard-water** [HC11]. **hardbound** [Jör11a]. **hardiness** [RJH+10]. **hardwood** [KGYG15, LCML11, MLC+16, MWML13a, MWML13b]. **hare**

[LV17, TNTH11]. **Harizaj** [BU11a]. **harmful** [DA19, ENM11, GDDFT16]. **Harvard** [Gra14]. **harvest** [BNL+13, dSCdA19, GDBB19, GS19a, HMS+10, JSW+13, LHLW15, MRP14, MRD+12, Och10, PP16, PME+16, RAB+10, SHB+11a, WBW14, YWA+17, ZKSF17]. **harvested** [FYWA12, IKL14, ZJL+14]. **harvesters** [DS12]. **Harvesting** [FvBM+11, BHC+15, LBZA19, MV17, TKP14, UKI+11, WCF+16, WMF+13]. **harvests** [KCKdOW12, TVF+10]. **hatching** [AOD+13]. **hatchlings** [HGWL11]. **having** [GCK+15]. **Hawai'i** [Ano12a, KAC+12a, KAC+12b]. **Hawaiian** [RKW12]. **Hayq** [FSML11]. **hazard** [CPD+11, KDK+10]. **hazelnut** [BOF+16]. **HEA** [CRO13]. **headwater** [LW14]. **health** [CGGL16, CZCL18, HKL+11, MLY+19, SM11, XYCZ11, XWW+11, XYCZ13, ZGJ10, ZLY+13]. **healthy** [IKL14]. **Heat** [MSS+19, DBP16, SBDA16]. **heat-producing** [SBDA16]. **heating** [Gra14]. **heavy** [BCC+11, BCC+14, GVC10, HZT+13, LGMLD19, MAP+13, MB17, RM13, TLL+17]. **heavy-tailed** [LGMLD19]. **Hebei** [HLW15, HZZ+18, ZLZ17b]. **HEC** [WZGH18]. **HEC-RAS** [WZGH18]. **hedges** [SMKM19]. **height** [ARM+12, RFZB12, WK11]. **Heihe** [FCH+17, JJYM19, WZG15]. **held** [LMY+11]. **Helgoland** [SW19]. **Helicoverpa** [BNC+18, FGH+10, PPZ+17, PVB16]. **Heliothis** [BNC+18]. **help** [MAB19, PJ17, RRH+19, VPM+18, VEMS12]. **helvetica** [ZPNM13]. **Hemiptera** [FTK+14]. **Heptapteridae** [dABLBAdOR17]. **herbaceous** [HBH+12, vLTdBP16]. **herbage** [GBR+13a]. **herbicide** [SPWR17, WTL17]. **herbicide-tolerant** [WTL17]. **herbicides** [RSP+17]. **herbivore** [AKLB19, EMH10, FAG10, FBKS17, FS18, KSS11, LMDG14, MNHW+13, TKP14]. **Herbivores** [RP11, AB10, SRP18, TM12, WHNR19]. **herbivory** [DDM+17, KPMJ14, RKC+15, ZCY+19]. **herons** [BFJZ+11]. **herring** [Hei11, SBCB13]. **heterogeneities** [YHZ19]. **Heterogeneity** [SDKE18, BL15, CdOR10, CIHL14, DAP18, EKB18, EAB11, GdTCFG10, GCW+16, GLRT16, GWF+18, KMKL19, LDCB21, LCMG18, MAM+12, MGB13, NMA+19, OMDP11, PMM11, PJ15, SX11, SPWR17, Sto10, WTG+16, WSSM15, WYS12, ZLB14, dLB19]. **heterogeneous** [BRMW18, BPM+15, DML15, FMA+12, For14, FS18, GCV14, HB13, HQF+17, KKP+11, KASS12, KP10, MBSF14, MAP+13, MJGC13, OBSL15, PvVC15, RKRB16, RV13, RH15, VBPY11, VP12, WGE+19]. **heterogenising** [GVV17]. **heterotroph** [FD19]. **heterotroph-phototroph** [FD19]. **heterotrophic** [GBR13b]. **heuristic** [BPB+18, GEB10, TŠAD12]. **Hevea** [KMM+13]. **hibernating** [BM10]. **hibernation** [LARZN13]. **hickory** [LL18a]. **Hidden** [VRM+10, LLC11, LCMG18]. **Hierarchical** [CCCP17, FDP+10, JN15a, LYJ+15, SRM11, TMC+16, VSPHS15, WLS+10, WLS+11, AHS+17, ABL+13, AB13, AHS+16, BDL+13, BMN11, BAJ+11, CPS+19, HlLB12, KASS12, LLB+19, LBE+13, LJ15b, LL18a, MAFG+19, PWGS+17, RE10, SML12, SFL+19, TMT+18, ZWG+13, ZLG16]. **hierarchically** [MCPB15]. **hierarchies** [Abe15, ESLJ18]. **hierarchy** [Abe10, AG14, JZCL14, PK12, YLC13, ZLZS14]. **High** [IHSM12, CLNN14,

Jör11a, ARTBB14, AB10, BVJE18, DMB+19, DBVS19, FMS13, GCK+15, HMS+10, HBSF16, KHS+19, KEM+16, LM12, LB17, LZB17, MBSW12, MSP+13, MOM+11, NL12, PSB+17, RML+13, WFN+16, ZCY+19]. **high-altitude** [MSP+13]. **high-boreal** [HMS+10]. **high-density** [LB17]. **High-frequency** [CLNN14, AB10]. **high-latitude** [BVJE18]. **high-level** [LM12]. **high-order** [ZCY+19]. **High-resolution** [IHSM12, ARTBB14, BVJE18, HBSF16, KHS+19, MBSW12, WFN+16]. **high-rise** [LB17]. **high-severity** [FMS13]. **higher** [YZ18]. **highland** [FSML11]. **highlands** [TSSL11]. **Highlighting** [DLZ+17]. **highlights** [BND19]. **highly** [BCV13, HSLC+19, POS+19, RCS+19, SMH+12]. **hillslope** [JM15]. **hilly** [TKN14]. **Hilsa** [BAA+14, HSCS14]. **Himalayan** [MU17, RXSK14]. **Himalayas** [SK11, RBRK16, SGP18, URR+17]. **hind** [CNI11]. **Hinoki** [Oga11]. **Hippocamelus** [LAEAG12]. **hirsutum** [ZML+12]. **hispanica** [AR11]. **historic** [CDR+13, RWVK11, WSBP13]. **Historical** [CL15b, BKMK10, BRHD15, Cam16, CAC+16, GMP13, GRB12, LdMS+16, LW17]. **histories** [WFN+16]. **history** [AWWD16, BLD10b, BBL11b, DCCS17, HMP+19b, qHLlZ+16, JSH15, JB11, Joh10, MJL+17, SW15]. **HMM** [WFN+16]. **HMM-based** [WFN+16]. **Hoare** [HLLP+10]. **hoc** [AFC12, Pér18]. **Hohokam** [Mur12]. **Hokkaido** [HMA10b, OJM+12]. **holes** [BM11]. **holistic** [Pat14a]. **Holoecology** [Pat16a]. **Holons** [AG14]. **home** [BM11, BRL12, DHL+12, GM10, WSC+19]. **homeostasis** [WSE12, WLR18]. **homing** [BAAB18, PP19]. **hominids** [GLS10b, GLS10b]. **homogeneous** [ASS14, BAJ+11, DHL+12, DP19]. **Homogenised** [DLCR13]. **homogenising** [GVV17]. **homogenization** [BAAB18, BS10b, VPC11]. **honey** [AOW12, AOW13, KDHC+18, RBH13]. **honeybee** [HFMM+12]. **honeybees** [BHHM10, MPK18]. **honeycreeper** [RKW12]. **Hooghly** [MRG13b, RBM+17]. **horizon** [Rem11, BPC+17, CBP+17]. **horizontal** [DKM+14]. **horizontally** [For14]. **horn** [GKL18]. **horned** [HSTS19]. **horns** [LR16]. **Host** [CWJ+13, ASS14, BWH13, BLAV18, CH12, CHZ18, HM18a, HM19, HMA10a, KSS11, KSI14, MLK17, NPJ+17, OLC+17, PHvB+18, RMP+18, WGT12, WGTH16, WGSR19]. **host-parasitoid** [CH12]. **host-plant** [KSS11]. **host-tick** [HM18a, HM19]. **hosts** [BPK+16, CHZ18, LLFL12]. **hot** [BSCG10, ZPZ+15]. **hotspot** [WLS+10, WLS+11]. **hotspots** [DOB+15, RWS+15]. **household** [LLW+15, LDYL18]. **households** [FG11]. **Howard** [GDC+19]. **howler** [WFDDR10]. **Hoze** [SC21]. **Huaihe** [YXD+18]. **Huangqihai** [CL15b]. **huberi** [SGM+14]. **Hübner** [BFA11, FGH+10, PVB16]. **Hudson** [HPC13a, HPC13b]. **huemul** [LAEAG12]. **Human** [Abe10, An12, ALC12, ADPS10, BGA17, BFJZ+11, CMM+10, CLWH15, CXL+19, CLT+11, DSBM+18, Dol10, DYU+12, GHS+16a, GHST19, JSW+13, KK13, LDM15a, LBWW14, LKG+17, LHH12, LP17, LCDJ+12, LB18b, MNEG11, MHS+17, MSH+19, MF16, OBC+21, Rau11, RNE+12, RCBPMN10, SHCR10, SRM11, SGWV15, WALCY12, WSZT10, YY11, vSGR16].

human-assisted [CMM+10]. **human-caused** [RCBPMN10, SGWV15, WSZT10]. **human-dominated** [LBWW14]. **human-mediated** [SRM11]. **humans** [MHS+17, MAM+10, YY13]. **Humboldt** [NMC+14, NMS+14]. **Humid** [AD13, AWWD16, FBA+11, LLTQ14, LLTQ15, MLH+17]. **humidity** [KBS+15, WSZT10]. **humpback** [PWGS+17]. **Hunan** [ZXD+13]. **Hunchun** [LKG+17]. **Hungarian** [HRSKW15]. **hunting** [HPC13a, HPC13b, RCS+19, WFDDR10]. **hunts** [WR13b]. **Huron** [LJR14]. **hurricanes** [XC14]. **hybrid** [CRO13, CRB16, IFC14, JBE+15, LOLA13, OFK+12, RAR15, SBR+19, SSKJ18, SGHW+17, WN17, XJY+16]. **hybridization** [DPPI14, GDT+14, LV17, NMT+19]. **hydra** [dSCdA18, Kal19]. **Hydraulic** [FWRZ10, AHNK13, HGBA+13, LPD14, TGB+17, ZC11]. **hydro** [Bev15, Jam16, WFSH15]. **hydro-eco-geomorphological** [Bev15]. **hydro-economic** [WFSH15]. **hydro-meteorological** [Jam16]. **Hydrobal** [BC13]. **hydrocarbons** [XWW+11, XQZ+13, ZCSL18]. **Hydrodynamic** [YSH+10, AHM+16a, FRM+19, GCM+13, HGLZ13, KLS17, KvOP10, LPV11, yLWhMhG11, MSGG14, Md18, QDH+10, WQD+13, WFW+17, WV12, Wil11b, YLC+18, ZWRK13, ZSJ15]. **hydrodynamic-biogeochemical** [MSGG14]. **hydrodynamic-marsh** [AHM+16a]. **hydrodynamic-phytoplankton** [HGLZ13]. **hydrodynamics** [MUP+13, WMW+12, YKCN10]. **hydroelectric** [dSGGBW12, WLH+10]. **hydroepidemiological** [MC11]. **hydrograph** [LCCL15]. **hydrologic** [AK17, Ano12s, JJYM19, MCW13, Nak17, NP18, SFMA15, SEHD18]. **Hydrological** [CHVH13, HGAT17, BC13, CHR+13, CZ11, DFW+18, GJÁ+10, GSPSP15, GDBB19, KHJ+19, LKH+18, LB18a, MLMFN+15, MSO10, WKZ+19, XTPT11, XYY+16, YLF+15, YXD+18]. **hydrology** [CTNH13, LZZ+14, LVPF15, WRSL11]. **hydrology-crop** [LZZ+14]. **hydropower** [APWT15, ACK+14, CCL+13, DFW+18]. **hydrothermal** [HSvO+18, WXB10]. **Hyla** [ACC+10]. **Hyperbolic** [FS14b, Dol10]. **hypereutrophic** [ALC19]. **Hyperparameter** [SMI+19]. **hyperspectral** [CCLX17, LSS+15]. **hypolimnetic** [SHM+17]. **Hypothenemus** [RCGC17]. **Hypotheses** [BFM11, GAV+11, HM10, LJ15a, MJB+11b, MCMT+16, Pat16a]. **hypothesis** [Gav15, VHM+17, Pat16b]. **hypoxia** [BLLJ17, BH13a, DJS10, ER10, dMSL+16]. **hypoxic** [WB16]. **hypugaea** [EGMW12]. **hysteresis** [BM16, LBN+18]. **hystrix** [KvOP10, MATS14].

Iberia [RML+13]. **Iberian** [BRV11, AR11, ABC+17, BGA17, GVGZ+21]. **IBIS** [CZC+15]. **ICBM** [FBA+11]. **ice** [AHS+16, CR12a, TVT12, TSB+18]. **ice-shelf** [CR12a]. **ideal** [MK19, MHY+15]. **ideas** [JD18]. **identifiability** [BLLJ17, MDW+12, WC13b]. **Identification** [CHTC11, QlSeZ+10, IPSH14, PMBM11, QWJL19]. **identifies** [DDBK15]. **identify** [CCC12, GWR11, KGM12, LLL+10, MU10, RKL+15, THC18].

Identifying [BFPR16, BRL12, CDT10, DFK+11, GH13, HHC15, JHHS17, LSH15, LJLO11, NKSA13, NJCF11, VRM+10, XYTS19, ZWA19, JFS+12, JBCÑ11, MRTW18, SWZ+12]. **identity** [SS10]. **if** [Ano17m, Ano17n, Ano17o, Ano17p, Ano17q]. **Igapó** [RCCN11]. **ignition** [RCBPMN10]. **IGP** [SVL12]. **ii** [Ano14v, Ano14w, Ano14x, Ano14y, Ano14z, Ano14-27, Ano14-28, Ano14-29, Ano14-30, Ano14-31, Ano14-32, Ano14-33, Ano14-34, Ano14-35, Ano14-36, Ano14-37, Ano14-38, Ano14-39, Ano15r, Ano15s, Ano15t, Ano15u, Ano15v, Ano15w, Ano15x, Ano15y, Ano15z, Ano15-27, Ano15-28, Ano15-29, Ano15-30, Ano15-31, Ano15-32, Ano15-33, Ano15-34, Ano16v, Ano16w, Ano16x, Ano16y, Ano16z, Ano16-27, Ano16-28, Ano16-29, Ano16-30, Ano16-31, Ano16-32, Ano16-33, Ano16-34, Ano16-35, Ano16-36, Ano16-37, Ano16-38, Ano16-39, Ano16-40, Ano16-41, Ano16-42, Ano16-43, Ano17-41, Ano17-42, Ano17-43, Ano17-44, Ano17-45, Ano17-46, Ano17-47, Ano17-48, Ano17-49, Ano17-50, Ano17-51, BvBB10, CKS+17, DDM+17, DBVS19, FPWG14, HPC13b, KWS+13, Log19a, Pat16b, RCG+13, SLLW15, XTPT11, dBGS+14]. **iii** [Ano16v, Ano16w, Ano16x, Ano16y, Ano16z, Ano16-27, Ano16-28, Ano17-41, Ano17-42, Ano17-43, Ano17-44, Ano17-45, Ano17-46, Ano17-47, Ano17-48, Ano17-49, Ano17-50, Ano17-51, CSS+17, RCGC17]. **IKONOS** [ZPNM13]. **ilisha** [BAA+14, HSCS14]. **illegal** [BWRA16]. **Illinois** [CDR+13, SCH+17, ZSG+18]. **illumination** [JGX13]. **illustrated** [JKS+10]. **illustrates** [DDB+12]. **Illustration** [LJLC15, MTA19]. **image** [Ano17m, Ano17n, Ano17o, Ano17p, Ano17q, SHBG10]. **imagery** [Hat14, PK14, VALC12, XLR11, ZPNM13]. **images** [CCLX17, LAB+10, TQZ12]. **imaging** [LSS+15]. **imbalance** [Kei12]. **imbalanced** [SVH+19]. **immature** [DdSCG11]. **Impact** [ENM11, FYWA12, HS13b, HV12, HPG+10, LG10, LG12, MRG13a, MF16, MK14, MAMNL+15, MDV+12, NP18, OQH+13, PSWM+10, SAKB+10, VSC18, WP14, XYCZ13, AMRH19, AHF+13, BSFR17, BS13, BJK+16, BPS+11, BCTL16, BH17, BKM+18, dÁGP14, BEBA19, BRHD15, CPR10, CSH11, CRTS15, CSFR15, DH12, DYU+12, EBL+11, FLX+14, FTK+14, Fre16, dSGGBW12, HHL17, HCM+18, IKL14, LDS14, LKH+18, Lin15b, LSP+10, MDB19, MDKK15, NZL13, NGL13, OHS+17, PC16, PH18, PFA+16, PGKG12, PB14, PPDF14, ROG+16, RPC+17, SGBD10, SZVV10, SBRD10, TW18, TNA+17, TPT+11, WHRR15, Wol11, YLC+18, dJGM+18]. **Impacts** [ACK+14, Che15b, DMBS11, FCG+19, HBG+16, KG13, LVLS14, LC11, Nei11, PVM12, PVM13, PK16, PD15, RJH+10, SDY+15, SPG11, SRT16, AW16, ACE+17, ATCJ+19, AGB+13, ADL+10, BTB17, BSH17, BHPF14, CN10a, CAC+16, CLD+17, CSR15, CKH15, DLD+11, DVD+14, DBP16, ER13, FMS13, FP13, HCZ+17, HSR+15, HKM+18, HC11, HHF+10, IFC14, JDT+17, JBW+17, KDHC+18, KVP16, LHL+17, LJ10, LBK+13, LYCU14, LCT+17, yLWhMhG11, MTZ+10, MBM+18, NL12, OBC+21, PANL11, RLHD11, THC18, TLLX19, TCW11, TBJ+15, TCH+13, TDF+19, VWTA16, WCF+16, WMF+13, WCL+17, WO14, WNT+13, WFDDR10, XC14, ZLLC13, ZLW+15].

imperfect [BMP+19, GMK+19, KKP+11]. **imperiled** [LBM16]. **Implementation** [BDV+19, BAT+15, DBVS19, FLLB11, GBP+10, OGOWW16, PGKG12, ZBMBDU+17, AG11, ALeSD17, DWD19, KB11, SR14]. **implemented** [Che10, RPGSCF16]. **Implementing** [ESP+17, KLGL19, LJBS12]. **implicates** [BSCG10]. **implication** [ACCM16, Ju19]. **Implications** [AR11, ACC11, Bin17, DJS10, FAS+19, HMPC11, HKlL14, Joh10, KCP+15, LV17, LDM15a, MGS16, Md18, Mur13, Pec12, SHB11b, WRSL11, WLS+10, WLS+11, WEJ11, ZLB14, BAA+14, BLD10b, BBA12, DLZ+17, mGZK+10, HSM+12, KL12, MAC+12, NCEGB16, PPZ+17, PME+16, F.11]. **implicit** [AS12, Cho13]. **Importance** [ABB+14, ER10, FAS+19, HPRNP12, MRWN19, ZW11, AWWD16, CW17, CdMMF16, CD15, DWP13, DG16, GCDA16, GO15a, JB11, KGS11, LPD14, LDCB21, MHL+19, MMM+16, NCMF10, TCSG15, VLF+17, XCG+16]. **important** [Agu11, ACK+14, HMD+16, QlSeZ+10, TF13, WJvdL+13]. **imported** [KAJØ19]. **Imposed** [Cra10]. **impounded** [GCL+19]. **impounding** [CMLY19]. **impoundment** [MGMR15, PGKG12]. **imprecise** [dSCdA19]. **improve** [BOGA14, CEWW18, FHAG12, GGSP14, GMP13, MRP14, MPP+15, SVH+19, SJB+16, TRP12, TPG14, WRB+12, XBvdV+14, YHJ+17]. **Improved** [KCC16, SSV+12, YqWB+15, ZCYL15, dSD18, BU11a, DFF17, FE14a, GAB12, GBW+15, GYL+13, Har11, HS13a, HG17, IBH+15, JGX13, LKDD15, LCCL15, LS18, SWZ+12, SV13, SLZ+17, Til15, YLC13]. **Improvement** [KPM+14, ZLJM17b, ZLJM17a, ZZB+18]. **Improvements** [HHW11]. **improves** [FMW+19, TFMP11, ZBSF17, ZJB19]. **Improving** [BT16, CZC+15, CMEP15, JSdSdL+18, KZR+13, LLCR10, LYC+15b, PPBD13, RAM10, SLMS14, SCG+16, TZS+14, WB16, WZL+16, YLL+12, CHTC11, RJ17, ZCS13]. **in-lake** [PSB+17]. **in-situ** [LLKY18]. **in-stream** [BA14a, HKVR13]. **Inachis** [HLLO13a, HLLO13b, PAB+13b]. **inapplicable** [SMS+13]. **incidence** [BRR10, JVY19]. **incidental** [CCS13, MROGVR12]. **includes** [NiSK21]. **Including** [DCMK11, SKTG11, GLRT16, LSA+19, MCH15, MFD+15, MDL+10, RLS11, SB15]. **inclusion** [dSdCF10]. **income** [MSCM18]. **income-breeding** [MSCM18]. **incompatibilities** [BFPR16]. **incomplete** [For18b, PJ17]. **inconstant** [BNGP19]. **incorporated** [Che16]. **Incorporating** [Ano12t, AS12, BTS19, BG11, CH14, DÖWB12, FMW+19, Fuj16, GB16a, GGSP14, GLC+15, LYCZ13, LBS+14, RJH+10, RWVK11, SWS16, SMH+12, SMLH+11, WGA+13, BRS+18, CSOS17, CB19, SFM+18, TM18, WSSM15]. **Incorporation** [KHW+16, PLR+13, PPBD13]. **Increase** [dAdSC15, ACE+13, Ano17a, CMGF14, ESP+17, Lee14, MPT+11, NYH15, PRH17, VEK12]. **Increased** [HLLO13a, HLLO13b, CEWW18, CN13]. **Increases** [Mat13, PLS+16, AG11, DBS18, PTA+12, RGH+13, VCD+17]. **Increasing** [BCV13, KB18, Pra12, Slo11, CJC11, GLR+19, KKP+17]. **increment** [HlLB12, NBD+13]. **incubation** [MRP+11, SDD+13].

independence [GMS11]. **independent** [LG10, SK10]. **Index** [Har11, ZTL+17, ZPNM13, AKvO+10, ALKB10, BU11a, CZC+15, CSS+19, DGKSM13, GAB12, LCCL15, NiSK21, RHB14, VPB+12, YKvWK16]. **indexes** [TAR13, YZC14]. **India** [ADL+10, BG15, CBGK15, DCMS18, MRG13a, MGMR15, MSKS13, MRG13b, RBM+17, San17, SK11]. **Indian** [DFM12a, DFM12b]. **indicator** [BAJ+11, CBA10, GLA11, KFvSH15, KGD14, LBK+13, MC11, SJS+13, SLH+11, TA11]. **Indicators** [Wal15, Ana17, BGMFES15, BCP16, BFJL15, FLLG13, GLC+15, KB10, KK15a, KCC16, LSJ+18, LSJ+19, MCPB15, Rau11, SG11b, VBS14, VFB19, WWYO18, vGKB10]. **indices** [FL11, FAPM12, HlLB12, MV11, MSFR15, SXZ+15]. **indicum** [YKL+12]. **Indirect** [DWWS15, WPB14, BFS11, BRB14, FG11, GV15, Jag14, LCR12, MK13, MDH15, MJC+11, PTL14, RSP+17, SB11, TAR13, XM13, ZCSL18, ZSKI17]. **indiscriminate** [HCE+19]. **INDISIM** [PGG14]. **INDISIM-Saccha** [PGG14]. **Individual** [BMCG12, BQF+18, CRBC11, CDL+11, DJMBD+13, GGVB11, HR11, KSI14, LAEAG12, MG16, MDB19, MSH+19, OMDP11, Uch16, AHS+17, Ash10, ADF13, BVP+13, BAAB18, Bin17, BS10a, BRS+18, CC12, CdMMF16, CWL+16, CDK+17, CJC11, CTC+18, CRQW18, CDG15, DJT+19, DVT+10, EKB18, EST+19, FB13, GHWG+14, GDTP13, GHS+16b, GCvDM12, GCM+13, HMP19a, HCW+17, HFSL14, HVL+19, HS13a, HTL+14, HSHF+13, HHC15, HGAT17, HBB15, IFC14, JD18, KWJH16, KKI+14, LJLC15, LBR16, LPF11, LSA+19, LSGT13, LBS+14, LAK+18, MHL+19, MCRB17, MAP+13, MPF+14, MBM+18, MdMS+19, MGSB11, MATS14, NMT+19, NMdR16, PC17, PLB16, PRL+13, PP12, PGG14, RR10, SJGB16, SRSS12, SSK14, SML12, Sim11, Sma13, SGSR10, SGWV15, TB13, TMPF18, TSM+15, TTCC+19, VSF10, VR12, VGR+11, Wal17, WSL17, WR13a, WR17, WP14]. **individual** [WFN+16, XZC+17, ZDL+17, dJHMS19, dOMZ13, vdVBJS15, vdVJS16]. **individual-** [GHWG+14]. **Individual-based** [BQF+18, CRBC11, CDL+11, DJMBD+13, GGVB11, HR11, LAEAG12, MG16, MSH+19, BVP+13, BAAB18, BRS+18, CC12, CDG15, DJT+19, DVT+10, EKB18, EST+19, FB13, GDTP13, GHS+16b, GCvDM12, GCM+13, HMP19a, HCW+17, HS13a, HTL+14, HSHF+13, HHC15, HGAT17, HBB15, IFC14, JD18, KWJH16, KKI+14, LJLC15, LSA+19, LSGT13, LBS+14, LAK+18, MHL+19, MAP+13, MPF+14, MBM+18, MGSB11, MATS14, NMT+19, NMdR16, PC17, PLB16, PRL+13, PP12, PGG14, RR10, SJGB16, SRSS12, SSK14, SGSR10, SGWV15, TB13, TMPF18, TSM+15, TTCC+19, Uch16, VSF10, VR12, VGR+11, Wal17, WSL17, WR13a, WR17, WP14, XZC+17, ZDL+17, dJHMS19, dOMZ13, vdVBJS15, vdVJS16]. **individual-level** [HFSL14]. **individuals** [CGS+17, GCW+16]. **Indo** [SVL12]. **Indo-Gangetic** [SVL12]. **Indomitable** [Fat16b]. **Indonesia** [SHB11b]. **induced** [ACM15, AS12, BGD+16, BPB14, LBW18, MBM+18,

MMMGLN+18, NP15, SS16, SS11, VAO+17, WNT+13, XC14]. **induction** [MBBA17]. **industrial** [DLZ+17, GWHL15, KS18, LHH12, XZCL16, ZZF15]. **industrialized** [BS10c, GPM+16a, SMH+12]. **industries** [AAW+15]. **industry** [KGM12, mNkGyT+17]. **IndVal** [DGKSM13]. **inequality** [RW17]. **inexact** [LHZN11]. **inexact-stochastic** [LHZN11]. **infected** [ASS14, BJK+16, WGTH16]. **infecting** [CC10]. **infection** [BCD12, LLFL12]. **infections** [CHZ18, SM10]. **infectious** [BJK+16, SDS+21, WGTH16]. **Infective** [BPK+16]. **infectivity** [CCSF11]. **inference** [BWA17, WC13a, WC13b, ZBSF17]. **Inferences** [DLL+19]. **inferential** [ZDL+17]. **inferred** [KWJH16, WBC+12]. **Inferring** [BPB+18, BGMJ+12, FDP+10, GMK+19]. **infestation** [AD16, BGGL16, KSI14, NPJ+17]. **infestations** [FH11, RPA+18]. **infinite** [KB11]. **infinite-dimensional** [KB11]. **inflated** [CMT+11, LBE+13, LJ15c]. **inflow** [ABD14, BGD+15, KM12b, ZW10]. **Influence** [ABAG15, ABAG16, AYASR+17, ABD14, CQS15, GHP12, GAHE11, HMA10a, MAM+12, PLS+10, SMH16, ABR12b, ABR12c, Agu11, AHNK13, BA14a, BEZ19, BV15, BKB10, CAL13, CHR+13, ČTT+12, CIHL14, DF13, FMW+19, HN14, KSM+18, LMR16, LDC+16, LGY10, OdlFDP15, PLS11, PSWW11, QDH+10, RVNB11, SFMA15, SSQ+10, Tie16, TFMP11, VF16, VPM+18, WRMB18, vLTdBP16]. **influenced** [ATL18, BCO17, SMKM19]. **Influences** [KK12b, LCP15, XKI+11, BRMW18, GTC16, LLZ+16, MWK19, WRSL11, XCR+13, YZ16, YXD+18]. **influencing** [HLLP+10, IT17, PVB16]. **influential** [CCC12]. **influenza** [ZWA19]. **inform** [MCMT+16, PSM+12]. **Information** [AAO10, HKP10, TLL+17, VFB19, WYHC15, Abe13, IHSM12, BDTV11, CAY+10, DPLC13, GDC+19, GPP+19, HYG14, HDL+16, JJMW14, JJS10, JLN10, Jør15a, Jør15b, LdMS+16, LZZ+14, LGDW12, PLR+13, PKMH16, PVB16, SCG+13, WEB11, YHW+12, ZCS13]. **Information-based** [TLL+17]. **informed** [TCGC16]. **Infrastructure** [MSS+19, MGR+18]. **infrastructures** [LCP14, LCP15, MAB19]. **ingenuous** [BMF+11a, BMF+11b]. **inhabiting** [AR11, GFW+17]. **inherent** [Cra10, MJC+11]. **inhibiting** [FR11]. **inhibition** [MCH15, PJ16]. **inhibitors** [SBDS13, TB19]. **inhomogeneous** [CVS+13, DHL+12]. **initial** [Ant14, ABGB15, IKL14, JDZC14, KSM+18, PSG19]. **initialise** [WHC+13]. **initializing** [HWS11]. **injuries** [CBP+17]. **INLA** [CF14]. **Inner** [HYL+17, RNE+12, SAW+11, YSA+14, LWL+17b, ZJL+16]. **innovative** [MKSL+17, YHS+11]. **Input** [SCH+17, BB10, BCP16, BFS11, CC11, hCjHMW18, Cho13, Fis21, FYWA12, HCM+15, LHL18, MU17, Pog11, SZSV13, XYTS19, ZQC15]. **Input-Output** [SCH+17, XYTS19]. **input-state-output** [BCP16]. **input-variables** [Fis21]. **inputs** [BJK+16, GHS+16a, GJÁ+10, HSM+12, KØ13, LJR14, MCB14, YDD+13]. **insect** [AD16, BLRN15, BNC+18, CCL14, CAC+16, DRS+16, ETG+18, FPO18, HQF+17, LLH+17, LJCG15, PD12, PvVC13, RSCS19, TMC+16, THBF+17, WBW14]. **insect-resistant** [FPO18]. **insecticidal** [YWA+17].

insecticide [SDSH15]. **insects** [CMM+10, EAB11, MNK+21, RDJ19]. **insight** [GO15a, NMdR16]. **Insights** [ALeSD17, BGGL16, CHPS17, KH15, LDCB21, MHL+19, MBD+18, MJL+13, MJL+14, MDVG+15, PES19, PLL+19, TRD+15, WHNR19, AMM+14, BPWB14, FT10, GAB12, HMP19a, LLB+19, MRM16, OCCF17, VASH+16, BAT+15]. **inspired** [CMSPJ11, ZVS18]. **instability** [FR11, dAdSC15]. **installations** [AMH16, KL12]. **instance** [Con14]. **INSTAR** [SMBGH+19]. **InSTREAM** [ARV+16]. **InSTREAM-Gen** [ARV+16]. **insular** [BGMFES15, TVI+13]. **insurance** [VMP+19]. **intake** [GBR+13a, RSE10, Sim11]. **integer** [BDWP16, EBA+19]. **integral** [EEB+17, EEK+18, TWP+14]. **integrals** [FAPM12]. **integrate** [VMP+19]. **Integrated** [CLH17, CHCC15, Che15a, EIG+10, HCM+18, JC11a, LBA14, LBA15, MA10, TCW11, VPC+14, WHB12, WGE+19, ZLY+13, vDSC+10, AGJ+12, DUASLB+12, EBA+19, GH13, GOSH+12, HJ17, HOKH18, JMB+11, JBW+17, KPLS15, LZS+17, LLP17, MKSL+17, MRD+12, MDVG+15, QL15, RSDP+12, RGRMRR18, SFvdM+17, SHB11b, SDSH15, TPG14, UFK+10, VKdW+10, XSN+18, ZLJM17b, ZLJM17a]. **integrates** [SMBGH+19]. **Integrating** [BG19, BS10a, CS17, DK17, FLLB11, FtHvdB+14, FS18, HGBA+13, KJMA11, KSG+14, LBM16, LLC+17, LLH+17, MRP14, NMdR16, PBD+17, RRBI14, RKC+15, RKBG14, SHX+12, SGM+14, VHDM17, YZC14, vGKB10, DWNN10, KK10, LCL+13]. **Integration** [ASL13, CMM+10, DC10, KK12a, Sak13, ZSJ15, BGMFES15, GCCJ12, GLI+21, Ken17, KNPH+17, MCBM12, XZZ+13, YGL18]. **Integrative** [HKL+11]. **integrity** [SLY+17, SFB+15]. **intellect** [Fat16b]. **intelligent** [PD12]. **Intensification** [Ano12a, KAC+12a, KAC+12b, LCPB+10, ZBAY14]. **intensity** [DWWS15, DSM+12, RHB14, SHB+11a, SGG14]. **Intensive** [LLZ+16, HCZ+17, SVL12]. **intensively** [BRL12]. **Inter** [BMD18, MK12, GGSP14, LCT+17, NLM+19, RDR+17, dVLS11]. **Inter-annual** [BMD18, MK12]. **inter-regional** [LCT+17]. **inter-sectoral** [NLM+19]. **inter-specific** [dVLS11]. **inter-taxocene** [RDR+17]. **inter-tree** [GGSP14]. **Interacting** [VP12, dSJHG10, BG19, MB14, PKG16, SSBJ12]. **Interaction** [FPG11, HOKH18, MP13, ACCM16, AAME11, BWH13, BNGP19, CpW16, DBH+17, DMZ+19, F.11, KB18, LZS+17, NG11, SCB13, YZ16, ZFG13, dOMZ13]. **Interactions** [GPA+13, Hei11, TNTH11, ZBS14, AALP18, AD13, AAA13, AKLB19, ADPS10, Ban11, CBB19, CLT+11, CCG15, DVF+19, DKM+14, DMBS11, ELPK12, FSML11, FGPR10, FSM+19a, FD19, FT16, FAS+19, FKSK+10, FRP18, GVGZ+21, GDTP13, GVC10, HLL+19, HBL18, HSvO+18, KSS11, KMF+21, LSH15, LMDG14, LCM11, LP17, MKF+11, MSH+19, MvdWU+16, MSV12, NGRDTHRL19, PHvB+18, PLS+10, PBG+17, PGZ+19, PNHL14, PS13, PDBP11, QFG+13, RNE+12, SLW+14, SGM+14, SPP18, TW18, Tie16, TAR13, Ver10, WGT12, WJL+13, WTG+16, WNF+15, XM13, XSL18, YZ18, ZCY+19]. **Interactive** [LLFL12, BC12, JWX18, KHHN17]. **interacts** [VF16]. **Interannual**

[LY16, NZL13, NWAR11, WGA+11, WGA+12, XCR+13]. **Interception** [DKM+14, DHC14, For14, MJGC13, dLB19]. **interchangeability** [GBR13b]. **intercomparison** [HPW+12, PTE+12, WGA+11, WGA+12]. **interconnected** [LT15, MY11]. **Interdisciplinary** [CK12, Wei19, ZH13]. **interest** [HLS+14]. **interface** [OdlFDP15]. **interference** [dSCdA18, DMH17, F.11, RSE10, RAdA12, dVLS11]. **interim** [HPW+12]. **interindividual** [BDL+13]. **interior** [FAS+19]. **interlaced** [CL15b]. **interlinked** [WTWS19]. **Intermediate** [AHM+16b, SRP18, LLFL12]. **intermittent** [SAR11]. **Internal** [HS13c, WWYO18, BFNH14, KZR+13, LWGH13, LLZ+15, Wan19]. **International** [FKDG14, LMY+11, LYP+11, LPA+11, Wei19, Ano13u]. **internesting** [DBP16, HVL+19]. **Interplay** [BSC+15b, TMPF18, SK10, dOAC18]. **interpolation** [ChHC12]. **interpretation** [JTM+17, OCD+13, TWP+14]. **Interpreting** [SX11]. **interregional** [KR10b]. **Interspecific** [YZ16, BLAV18, KSM+18, KKBZ17, LS13, MPR13, VLF+17]. **Intertidal** [ALeSD17, OCB+13, WBHM11, XCL+11]. **Intertype** [LCM11]. **interval** [HWE+18]. **interventions** [DSA+18]. **intestinal** [RWvDM15]. **Intra** [BLAV18, GLT10, DDR+14, EFM+10, RPGA15, SW19, XLL15, dVLS11]. **intra-** [dVLS11]. **Intra-annual** [GLT10, SW19, XLL15]. **intra-colony** [DDR+14]. **Intra-host** [BLAV18]. **intra-seasonal** [EFM+10]. **intra-specific** [RPGA15]. **intraguild** [DdSCG11, URJ10]. **intransitive** [BRMW18, WRMB18]. **intransitivities** [GV15]. **intraspecific** [qHLlZ+16, MCA18, OFK+12]. **intrinsic** [RDD+18, SCBH18]. **introduced** [MSP+13, MGCL17, PTL14, TW18]. **introducing** [LCCL15, LDCB21]. **Introduction** [BFW14, BH10, HBF18, VMG+12, DPV+16, GT14, KGM12, MJB+11a]. **introductions** [MF16]. **introductory** [PF18]. **introgressive** [DPPI14]. **inundation** [DVF+19]. **invaded** [BGC10]. **invaders** [BRMW18, YHW19]. **invading** [TCGC16]. **invariance** [LCAJGFNS14]. **invariant** [THJ+12]. **Invasion** [VBPY11, Agu11, CVM+18, CGM+14, FTYI13, GDT+14, GdTCFG10, KKR19, KVP16, LAR+16, MJB+11b, MG18, MHG18, MMVAHMC16, SR14, SGP18, SS11, VHDM17, XCG+16, YLW14]. **invasion-induced** [SS11]. **invasions** [AWF10, GQRC+17, JB11, LRZ12, MCT10, PMLL11, SRM11]. **Invasive** [WPG15, AALP18, BGA17, BJR16, BRKP16, CMM+10, CPAG15, ETG+18, EEK+18, FP17, FHAG12, FKK+18, GPJL15, GPTR13, HHF+10, JBB+11, JWLS17, KR14, MKH+17, MF16, MPP+15, MWD+15, PK16, POS+19, PKD11, PMS11, RvKM10, RBRK16, SZSV12b, SDS+21, TBA19, YHK+19, ZLY16, ZVS18]. **invasives** [BMP+19]. **inventories** [MBRR13]. **inventory** [LLT+14, OLG+13, VALC12, WGA+13, HSK17, SHM+14]. **inventory-based** [WGA+13]. **Inverse** [NLMdL10, BSZ+11, DVT+10, SBVA+13, THJ+12]. **inversion** [HSK17]. **invertebrate** [AHNK13, HFH+19]. **invertebrates** [BH13b]. **InVEST** [JDT+17]. **investigate**

[BLH10, BCP16, CD16, IBD+19, LdMS+16, Str15a, Str15b]. **Investigating** [BSH17, DBVS19]. **investigation** [BG15, CT16, GS19a, HB15, PGKG12, TQZ12]. **investing** [MPGCS14]. **Investment** [GPM+16a, FN18]. **involving** [BWH13, BRW+12, SGSR10]. **io** [HLLO13a, HLLO13b, PAB+13b]. **ion** [NP15, NPH+17]. **Ionian** [PGV10]. **Ips** [OFH+19]. **Iran** [AHF+13, SZSV12a, SZSV12b, SZSV13, SZV14]. **Irish** [DOB+15]. **iron** [RMTM+16]. **irregular** [BM11, VAO+17]. **irrigated** [MFESBG+13]. **irrigation** [DAA+12, FBL+10, KS17a, KS17b, PRP17, XLS11]. **ISBN** [Kat11]. **ISBN-13** [Kat11]. **Ise** [TSN15, TSN17]. **ISEM** [Ano13u, LYP+11, LPA+11, WTC+18, Ano11q, Ano11r]. **ISI** [HhLY+19]. **Isla** [FAC+19a]. **Island** [JN15b, WCS+14, BP10, CN11, DWP11, GKF+14, KKP+17, NCK10, PP19, VPC11, ATCJ+19, BLCPB11, GPC14, MSS+19, ZKSF17]. **Islands** [CNI11, MGGLBIBD13, MRG13a, WSW+16, FBDR17]. **isolated** [dS18]. **isolation** [CHNdÁP18]. **isometrically** [Gav15]. **isoprenoid** [KGS11]. **isotope** [DLH+14, DCZ+15, MDL+10, PLR+13, Vav10, Vav12, VRC17, VRL18]. **isotopes** [SBDA16]. **isotopic** [VRL14]. **Israel** [ROC+13]. **Issue** [Ano11-37, Ano14-40, FKDG14, BFW14, BH10, GT14, GB16b, GB16d, HBF18, KA17, LP17, VMG+12, WTC+18]. **Issues** [SSK14, Ano11-38, FCLFB18]. **Italian** [BSC+15a, GZVU14, PPF11, XWC+11]. **Italy** [FRM+19, FBDR17, MJP+12, CPS+14, CRTS15, DAF+11, IBD+19, JSB+14, MSS+19, MRZU14, MCPB15, PGK+13, TL10, TAC+14, VB10, VZF+11]. **Italy/Southern** [FRM+19]. **Iterated** [CLBSG11]. **Iterative** [JMdW+10]. **iUniverse** [Jør14a]. **Ivlev** [WZWL10]. **Ivlev-type** [WZWL10]. **Ixodes** [HM18a, HM19, HMA10a, LVLS14]. **Ixodidae** [WGT12].

jack [MK12]. **jackknife** [SA13]. **jaguar** [BEPC15, WNF+15]. **James** [SQWS19]. **Janthinobacterium** [ACCM16]. **January** [Ano10i, Ano11s, Ano12w, Ano12-34, Ano13-29, Ano14k, Ano15d, Ano16o, Ano17z, Ano17-40, Ano18-42, Ano18-33, Ano19-42, Ano19-40, WLS+11]. **Janus** [Pat16b]. **Japan** [DFK+11, HMA10b, IKK+12, Ju19, LDYL18, MSO10, OJM+12]. **Japanese** [LSA+19]. **japonica** [TZS+14]. **japonicus** [DFK+11, LCC+14]. **javanica** [MAO19]. **jellyfish** [RPA12]. **Ji** [HZZ+18, LCT+17, WLC+19, ZLZ17b]. **Jialing** [yLWhMhG11]. **Jiangsu** [NvGZ+16]. **Jiaozhou** [XZC+17]. **Jilin** [ZLZS14]. **Jin** [HZZ+18, ZLZ17b, LCT+17, WLC+19]. **Jing** [HZZ+18, LCT+17, WLC+19, ZLZ17b]. **Jing-Jin-Ji** [LCT+17, WLC+19]. **John** [MSB+17]. **joint** [CRTS15, HHL17, LP17]. **Jointly** [GK14]. **Jørgensen** [Fat16b]. **July** [Ano10m, Ano10n, Ano11-28, Ano11-29, Ano12z, Ano13-35, Ano13-40, Ano14q, Ano14n, Ano15m, Ano15k, Ano16b, Ano17u, Ano17-28, Ano18-44, Ano18-35, Ano19-46, Ano19-35]. **jumbo** [ZBMBDU+17].

jump [Pau14]. **June** [Ano10k, Ano10l, Ano11z, Ano11-27, Ano12v, Ano13y, Ano13-34, Ano14m, Ano14p, Ano15l, Ano16d, Ano16r, Ano17-30, Ano18-39, Ano18-37, Ano19-38, Ano19-34, Con12]. **juniper** [yHAB12, PFSF14]. **Juquiá** [CSFB17]. **Juquiá-Guacu** [CSFB17]. **justification** [BS16a]. **juvenile** [ACM15, DWNN10, Dil10, FPG11, GCvDM12, HHUD14].

Kachchh [KK15b]. **Kalimantan** [SHB11b]. **Kalman** [HGLZ13, HG17, SG11a, ZCS13]. **Kappa** [vVBHZ11]. **Karenia** [DA19, HHC15]. **Karlodinium** [GDDFT16]. **Kazakhstan** [LBR16, PVBC14]. **kelp** [ROSC15]. **Kemp** [KWGG19]. **Kenya** [JAKJ10, LDM15b, MNHW+13]. **Keoladeo** [CBGK15]. **Kerguelen** [MCMT+16]. **kernel** [BM11, KUK11]. **kernels** [SBM+11, Slo11]. **key** [BND19, BSCG10, CDT10, GFW+17, GB15, HKL+11, HBS16b, LJLO11, MBHW12, MRTW18, RCSS13, SBM+12, TPL+15, TPO+18]. **Keys** [YSB11]. **keystone** [BSFR17, EPM+14, FAC+19a]. **keystoneness** [OCB+13]. **kidney** [Mur13]. **killed** [HWE+18]. **killer** [SGSR10]. **kin** [GVGC16]. **KINEROS2** [GPD+13]. **KINEROS2/STWIR** [GPD+13]. **kinetic** [PHP+14, VRL14]. **Kinetics** [BCC+14, GBB+11, LNB17, Sak13]. **king** [PPDF14]. **Kinneret** [ROC+13, OHS+17]. **Kitaura** [IKK+12]. **Klausmeier** [CV19]. **knotweed** [LSA+19]. **Knowing** [BRR10]. **knowledge** [CPE13, FMBD15, FKH+15, For18b, GCCJ12, JBV+15, JKS+10, PSM+12, SA16, SMBGH+19]. **knowledge-and-data-driven** [FKH+15]. **known** [FCLFB18, RGHS11]. **Koch** [dOMZ13]. **Kohala** [Ano12a, KAC+12a, KAC+12b]. **Koka** [TW18]. **Kolmogorovian** [ACKS13]. **Komarov** [SGCB15]. **Kootenay** [MAM+10]. **Korea** [BS18, KLS17, LP17, NCK10]. **Korean** [KL10, KPK+17, KKP+17, RHZ+18]. **koreana** [KKP+17]. **kriging** [LWY+11]. **krill** [CWM12, GJK+15, JR16, MRCW10, RMTM+16, TWH+14, WCG+11]. **Kronoberg** [PMS+17]. **Kruger** [BFKS16]. **Kuantan** [LHL+17].

L [Jør14b, KMS+13, PFSF14]. **L-systems** [PFSF14]. **L.** [BCL+14, BOF+16, BRKP16, CMT+11, CPMP13, CSR15, HSHF+13, KYvdPS14, KMS+12, MBBA17, MPKC12, MdMS+19, MMVAHMC16, MMMGLN+18, ODK16, UDP17, VVH12, YWA+17, ZML+12]. **labelling** [TGM+21]. **lability** [PDAL14]. **laboratory** [LHO+16, MHRB19, MRP+11]. **Labrador** [HMS+10]. **labrax** [PAGCV+10]. **Lacs** [KVP16]. **lacustrine** [WL13]. **lag** [NS15]. **Lago** [dSdCF10]. **Lagocephalus** [CVM+18]. **lagoon** [BSZ+11, BPGSS+18, DVD+14, GMLRF10, LAC10, LVV+15, LRB12, MDL+10, RPA12, SFMA15, VZF+11, ZDG+13]. **lagoonal** [KM12b]. **lagoons** [ABL+13, PICR13, TBM+14, ZDG+13]. **Lagopus** [ZPNM13]. **Lagrangian** [QDH+10, ZZT13]. **Lagrangian-based** [ZZT13]. **lags** [ROC+13]. **LAI** [ZCS13]. **Laizhou** [LZW+17]. **Lake** [CZR+14, CL15b, DATI10, DZW+11, GSQ17, HSR+15, KVP16, MWY+18, MSKS13, MBUM12, NXZ18, NGGFM19, RCCN11, SXZ+15, TW18, XYCZ13,

YDL+15, ZLLZ13, ALC19, BCC+11, BM16, BMD18, CdMMF16, CGGL16, CWLL15, CPS15, CLNN14, CTP+17, DMZ+19, FRM+19, GYL+13, HJWG12, HC11, HMA10b, Hu16, JHH+12, Jør10b, KD13, KHL+16, LkSXhX17, LWGH13, LCY+13, LLZ+15, LGY10, MSP+13, MDF+18, MGW+13, MH10, NGWZ16, OGG+16, PSB+17, PMLL11, PBK14, SWZ+12, SHM+17, TCW11, TSB+18, VJR+16, WB17, WFW+17, WKZ+19, XC14, YYQ11, YZPL16, YZG16, ZLY+13, ZWRK13, ZLG16, ZCSL18, ZWW+18, BMD18, BGPJ10, DATI10, ESA12, FRM+19, FSML11, HRSKW15, HFH+19, HLLP+10, Hu16, HG17, IKK+12, Jam16, JXL+15, JLZ+18, Jør10a, KB10, KJVL+17, KNM+10, KJH+13, LJR14, MJB+11a, MYJ+14, NOOM+16, OHS+17, PAB13a, QCB+11, ROC+13, SHB+11a, SLW+14, SGWV15, SS11, WV12].
Lake [WJF+11, WX11, XYCZ11, XWW+11, XQZ+13, ZRC+15]. **lakes** [AdMC+13, BdCS11, CRB16, CT11, DS12, EBL+11, FRP18, GCL+19, JSL+10, JTB+19, JFS+12, LHZ10, McC16, MUP+13, MHC16, PMBB+16, RWH+14, VRC17, VRL18, XJY+16, XWC+11, XYY+16, DS12, LRM+14, LRZ12, SSF14]. **lakeshore** [WP14]. **Lam** [SZSV12a, SZSV12b, SZSV13, SZV14]. **lamppost** [BL15]. **lamprey** [NWAR11]. **lampreys** [NWAR12]. **lanceolata** [WZD+14, ZXD+13]. **Land** [FLY13, LWL+17b, LBC+15, SYL+13, ZZLZ14, dFMdSA18, ADF+17, BPR+11, BLRN15, BKMK10, CLH17, CZ11, CB19, CKMD14, DK17, DSM+12, DPLC13, DSA+18, ER13, Fel12, FCFT16, FC11, GAP+19, GMP13, GANB11, GBP+10, GLI+21, HHL17, HWL17, JJYM19, LBE+18, LBK+13, LYSW15, LLZ+16, LZL+18, LVZ+11, LLZ12, LOLA13, LZZW17, LCDJ+12, MNEG11, MDOJ14, RLHD11, SJGB16, SLH+11, SWR+16, SDY+15, SCG+16, Tul14, TAGC+16, TA11, WHB12, WBC+12, dWcWbZ15, WO14, WBHM11, WS15, WFM16, XLR11, YZL12, YZC14, YXD+18, ZFT+10, ZFZ+14, ZZJ+16, vDSC+10, vVBHZ11, vVHZHvD13]. **Land-cover** [FLY13, ADF+17, DK17, FCFT16]. **land-use** [ADF+17, BKMK10, DK17, DSM+12, DPLC13, ER13, FCFT16, JJYM19, LBK+13, LZZW17, SDY+15, WO14, WS15, vVBHZ11].
land-use/land-cover [ADF+17]. **landcover** [AH17]. **LANDIS** [DDM+17, KWS+13, LHLW15, SHX+12, SLLW15, dBGS+14]. **LANDIS-II** [KWS+13, SLLW15, dBGS+14, DDM+17]. **landlocked** [BCTL16]. **lands** [UR10]. **Landsat** [Hat14, MHMRAHHS19, TQZ12, VB10].
Landsat-derived [MHMRAHHS19]. **Landscape** [CPR10, CBO16, KFvSH15, PD12, PGR+16, WZL+16, ABD+18, AMM+14, BC11, BGG+16b, BPM+15, BPM+17, CADB19, CAC+16, CXW19, Con11, Con12, DVL11, DNFG18, FAMD+12, FT10, FtHvdB+14, FAPM12, FCA18, GCB+11, GCK+15, GB15, GWF+18, HMPC11, HRSKW15, HV15, JD10, KWS+13, KCF+13, KMF+21, KGS11, KCAP17, KGYG15, LTL+19, LBH+15, LSZC10, LCCL15, LLQ+15, LHW+15, LLH+17, LDB14, LML17, LYL+17, LHLW15, MNEG11, MSV12, MDH15, MRM+17, MJLC14, MWD+15, NGWZ16, PMS+17, PTML14, PPZ+17, PSM+12, RHB14, RPA+18, RCS+19, SCHQA16, SKHH19, SvWP+15, SRP18, SRSS12,

SMH+12, SSQ+10, SDEP18, SGWV15, Sto10, TLLX19, TMPF18, TT12, TdS12, TWS+11, TLS+16, TDF+19, VHDM17, WGA+11, WGA+12, WGT12, WYY+19, WHNR19, YHS+11, YZC14, YHW19, ZJG10, dBGS+14]. **Landscape-level** [CPR10, PD12, LLH+17]. **Landscape-scale** [PGR+16, RPA+18, SRSS12]. **landscapes** [BSP12, BKP10, Bar11, BGK+16, BCI+17, BRHD15, CHNdÁP18, DDM+17, DPBK10, DS12, DML15, EZ14, EGMW12, GTM+19, HRSKW15, LSGT13, MFESBG+13, MAB19, NNP19, OBSL15, PHvB+18, PvVC15, PSKO16, RLHD11, RCSS13, VSPHS15, VBPY11, Wal15, XSL18, ZWG+13, ZNS+18, dHR18]. **LandSim** [PMS+17]. **landslide** [CLCC11]. **landslides** [DH12, VEMS12]. **landuse** [AH17]. **landuse/landcover** [AH17]. **language** [DR14, MCPB13, UDNSLCG16]. **languages** [PWK+17]. **Lanier** [KB10]. **larch** [NS15, XKI+11]. **Large** [MGSB11, AAO10, ACE+17, AWSS14, AB10, BKN21, BB18, BV15, DBR12, DMB+19, FMA+12, FRM+19, Flo18, FYWA12, FRP18, FBKS17, GLA11, GSPSP15, GPA+13, GWC+10, GLY+15, KHL+16, Kos17, LDC+16, LPV11, LZYH19, MSF18, MNHW+13, NCLP10, NGL13, PGKG12, RPA+18, SvBH+14, SRP18, SSKJ18, WFW+17, WWC+18, YHS+11, YZG16, ZW12, ZWRK13, dMLM+17]. **large-area** [MSF18]. **large-scale** [BKN21, FMA+12, FYWA12, GLY+15, SSKJ18, dMLM+17]. **largely** [CVS+13]. **larger** [LGMLD19, NYH15]. **largest** [GPR+13, WKZ+19]. **Larix** [KWJH16]. **lark** [HSTS19]. **larva** [CC10, SLB+18]. **larvae** [HLLO13a, HLLO13b, LCC+14, OAPP12, PAB+13b, VVH12]. **LARVAHS** [BBGJ13]. **larval** [BBGJ13, BLAV18, GCvDM12, MLS+11, MYJ+14, NWAR11, NWAR12, SU15]. **laser** [HS11, KHS+19, MdMS+19]. **last** [LBC+15]. **Late** [Flo14, PHvB+18]. **latent** [CL10]. **lateral** [FCS13]. **Lates** [HD16]. **Latimeria** [CPE13]. **latitude** [BVJE18]. **Latitudinal** [TWH+14, ENC+15]. **lattice** [BM11, IWW12, IKH+11]. **lattice-based** [BM11]. **laurel** [MAC+12]. **Laurentian** [LRM+14, LRZ12, SSF14]. **lavaretus** [VVH12]. **law** [GCW+16, JDZC14, KOBK13, Oga17, Oga18, SC18, SSR16, dLB19]. **Lawrence** [CLD+17, MDVG+15]. **Laws** [Jør14a, HLS+14]. **layer** [LKLK15]. **layered** [AMR16, JAH+10]. **layers** [LBE+18]. **laying** [GPZB18, SG16]. **LCA** [RRBI14]. **LDI** [RHB14]. **leachate** [RM13]. **leaching** [HOŠ+12, YDD+13]. **lead** [MKL14, NYH15]. **leading** [ASS14, JD18]. **Leaf** [BLB+17, Bai18, BPS+11, CPMP13, CZC+15, FS14b, GZK+11, Hos11, KSS11, KGS11, KMS+12, KMS+13, LBR+17, LCFD19, Oga18, OJ15, RML+15]. **leaf-resolving** [Bai18]. **LEAFC3** [MEC14]. **LEAFC3-N** [MEC14]. **leafy** [LCFD19]. **leaky** [Mur13]. **learn** [Rin14]. **learned** [CLL+15, FBdP+16, GMP13]. **Learning** [KNM+10, STD15, WHH+18, CGP12, DDR+14, FKK+18, GMC+19, MHL+19, MRWN19, NGGFM19, PLB16, RRvdG18, SMI+19, WKF+17, ZHLZ17]. **Least** [IBD+19, KK13, LLL+10]. **least-cost** [LLL+10]. **leatherback** [DBP16]. **leaved** [RHZ+18]. **leaves** [AS11, DKM+14, JX15]. **Leeward** [Ano12a, KAC+12a, KAC+12b]. **Legal** [CGY11, CGL15]. **legend**

[Ano17m, Ano17n, Ano17o, Ano17p, Ano17q]. **leidyi** [AALP18]. **leishmaniasis** [RMP+18]. **Lemna** [SBDS13]. **length** [MCH15, Pea15, SMT19a, SMT19b, ZML+12, vPTOW18]. **length-based** [SMT19a, SMT19b, vPTOW18]. **lentic** [HKL+11]. **León** [MJB+11a]. **Lepidoptera** [FPO18, BTS19, FGH+10, KL10]. **LepiX** [FPO18]. **Lepomis** [GV11]. **leprosy** [OLC+17]. **Leslie** [CCS13, MdlP15, Mon13]. **less** [BGD+16, MS14, TYEH10]. **Lesser** [GCvDM12, GCM+13]. **Lessons** [BRM+14, CLL+15, FBdP+16, GHWG+14, GMP13, SU15, ZCR16]. **lethal** [MS14]. **leucas** [MDVG+15]. **Leucaspius** [BGC10]. **Level** [WYPF15, CHR+13, CPR10, CN11, CAMCK+12, CRTS15, CWMC+12, DVD+14, FH11, FtHvdB+14, FD19, For14, FAS+19, FPWG14, GHWG+14, HFSL14, HW12, HLK+12, JD10, KR10a, KHS+19, KH15, LM12, LBW18, LLH+17, LNB17, LKAL+13, LVV+15, LCDJ+12, MAP+13, dMHGA10, NPP+18, OWMK10, PD12, PWK+17, RSC12, RSC13, RMLTCQ+19, SJS+13, TTCC+19, TB19, WCL+17, WKZ+19, WRM+11, YHZ19, vDHH+14]. **level-size** [TTCC+19]. **Levels** [LPF11, BS13, DLH+14, DBVS19, HB14, KHHN17, PLS+10, Sol19, XWW+11, XLL15]. **Liaohe** [HZSH17]. **Liaoning** [GZS+18]. **liberalised** [HGE+10]. **lice** [AHS+17, Mur11, MS16]. **LID** [MJY17]. **LID-BMPs** [MJY17]. **Lidar** [BBL+17, TRP12, Hat14]. **LIDET** [SBC+11]. **liebre** [RIMPBT19]. **Life** [DLZ+17, Jør14a, Kat11, KBMM15, UAB+11, AWWD16, BB10, BH13b, BLD10b, BBL11b, CDT10, DLL+19, DCCS17, DLD+11, GRRU15, GCM+13, HA18, HMP+19b, qHLlZ+16, HSHF+13, HPGM18, HB10a, JSH15, JB11, Joh10, LJB12, MJL+17, MBRR13, MCMT+16, NBSGW19, PMH17, RSCS19, SW15, WGE+19, Jør14a]. **life-cycle** [HSHF+13]. **life-history** [BBL11b, MJL+17, SW15]. **Life-Organizing** [Jør14a]. **life-stages** [GCM+13]. **life-traits** [CDT10]. **lifecycle** [DMB+19, RCSS13]. **lifetime** [DPvBvA11]. **Light** [BVC+18, DHC14, BSC+15a, BMR+18, BS17, BKB10, BvBB10, DMZ+19, FS14b, For14, GRD+14, HNWT10, LCL+13, LVV+15, MKTO19, MJGC13, Pea15, TPO+18, WBS13, YLC+18, ZZFH15, dLB19]. **light-driven** [BMR+18]. **lights** [WLC+19]. **lignocellulosic** [ABAG15, ABAG16]. **Liguria** [PPB+18, VB10]. **Liguria-Italy** [VB10]. **like** [MP13]. **likelihood** [KSZW16]. **likely** [BGD+16, PC16, PTL14]. **Likens** [Jør14b]. **Limfjorden** [CVPR+16]. **Limitation** [HKVD16, BKB10, BvBB10, Che15b, FC12, LWC+18, Mul11, SFM+18, WEJ11]. **limitations** [GCCJ12, LB18a, PMBM11, THC18, VF16]. **limited** [CN13, FMBD15, HPJ15, HJ10b, MRCW10, OCD+13, PKMH16, RP11, YLL+17]. **limiting** [AL16, TGB+17]. **limits** [Ban11, FP17, PKD11]. **Limnoperna** [dÁSMRT+19]. **limpid** [MSO10]. **line** [FAPM12, PR11]. **linear** [AK17, BDWP16, BPK+12, CCCP17, DH18, EBA+19, For18a, GdTCFG10, MAB19, SBVA+13, SXNL18, VRL14, VC17b, WK11]. **linearity** [FS14b]. **lines** [SSQ+10, YJW15]. **lingering** [RRBI14]. **Linguistic** [HL19]. **Link** [Pat15, RHR+15a, SBR+19]. **Linkage** [WQD+13]. **linkages** [LYCZ11, ZH13]. **linked** [FTK+14, HHC+13, LST15, SHCR10, ZWRK13]. **Linking**

[CB15, CN18, EFM+10, HGSJ15, HOŠ+12, LSGT13, LG17, MSB+17, PMM11, PK14, RRG+15, SBC+15, ZDL+17, DLCR13, FDP+10, FE14a, JDT+17]. **Linyphiid** [Joh10]. **lions** [RRG+15, BDV+19, DBVS19]. **lipid** [RM13]. **Lippia** [MAO19]. **literature** [MMMGLN+18, PMB+19, VG19]. **literature-based** [MMMGLN+18]. **Lithurgus** [SGM+14]. **Litter** [ZTJ+10, DFRT14, KMS+12, KMS+13, MBG+10, MRG13b, ZJM+11]. **litterbag** [Lec17]. **litterfall** [MRG13a]. **Little** [JJKJ11, CESC19, RTE+15, SSQ+10]. **lived** [GHH+15, SF10]. **livelihoods** [SHB11b]. **lives** [SKPHW16]. **livestock** [Bae18, CCF13a, FDHL17, FS18, LAK+21, RVNB11, SDT10]. **lividum** [ACCM16]. **Living** [FJH15, CCSF11, IT17, RWvDM15]. **lizard** [ABC+14, TVI+13]. **lizards** [FSV+12]. **llama** [TSSL11]. **LLC** [Jør14a]. **LMC** [PdM11]. **load** [NXZ18, OGOWW16]. **loaded** [ELPK12]. **loading** [JSL+10, REB+16, SQWS19]. **loads** [CTNH13, MMM+16, MHTC15, RML+13, SB15]. **lobster** [BPB14, LMBL12]. **lobster-induced** [BPB14]. **Lobsters** [EPM+14]. **Local** [Che16, MWK19, RCCN11, SLD+19, WYS12, AAME11, ARM+12, BND19, BBL11a, BGG+16b, CWM12, CRVS13, DJH10, DBH+17, FCLFB18, GPTR13, GJK+15, IWW12, KAJØ19, KHHN17, Log16, MMM+16, Mat13, MLAT+18, Pec12, PGV10, RPA+18]. **localized** [KBMM15]. **locally** [VC17a]. **located** [LLTQ14, LLTQ15, ZPZ+15]. **location** [ACC11, DMB+18, RWVK11]. **locations** [CMV+16, Fai10]. **lock** [SDSH15, ZVS18]. **lock-and-dam** [ZVS18]. **lock-in** [SDSH15]. **locust** [BRKP16, DBH+17]. **Loess** [FLY13, ZZLZ14]. **logbook** [KSZW16]. **loggerhead** [MJL+17, WHRR15]. **logging** [Gat18, TDH12]. **Logic** [BPT+19]. **Logistic** [MIC14, AMF12, GGV11, MCA18, SJTS13, Sak13, SK11, Ske13]. **logistics** [LBM16]. **Londrina** [RCCN11]. **Long** [Ano12a, ABC+17, BUB+12, HOŠ+12, LDO+18, PGKG12, SVL12, WP14, YSA+14, ZJM+11, AB13, BYR18, BLB+17, BSS+14, EC10, FB15, GPJL15, GPTR13, GV11, GHH+15, GCB+11, KAC+12a, KAC+12b, LBZA19, LA11, LBdA+19, MBG17, MP17, Och10, PWBG16, Pen11, PGZ+19, RUSL19, RDD+18, SF10, Str15a, Str15b, TGM+21, VG19, VASL+15]. **long-distance** [GPJL15, GPTR13, MBG17]. **long-lived** [GHH+15, SF10]. **long-run** [EC10]. **Long-Term** [Ano12a, ABC+17, BUB+12, HOŠ+12, LDO+18, PGKG12, SVL12, WP14, YSA+14, ZJM+11, AB13, BYR18, BLB+17, BSS+14, FB15, GV11, GCB+11, KAC+12a, KAC+12b, LBZA19, LBdA+19, MP17, Och10, PWBG16, Pen11, PGZ+19, RUSL19, TGM+21, VG19, VASL+15]. **Longitudinal** [WWC+18]. **Longleaf** [LCML11]. **longline** [LJ13]. **Looking** [BUB+12, MAFG+19, YKL+12]. **loop** [GLS10a, LDJZC15]. **Lophotrochozoans** [DLL+19]. **Lorenzo** [GSJ+10]. **Losers** [RE10, KTV+15]. **loss** [Bus17, CR12a, CPR10, CHG+15, CLDRJ18, DPLC13, HBS16b, LLH+13, LLL17, LLL19, SAAD16, SBC+11, VWTA16, YGL18, ZCY+19]. **losses**

[Ano12t, LDJZC15, LYCZ13]. **Lotka** [ELPK12, For18a, GvdWBS11, Sci11b, TSM+15, WSSM15]. **Louisiana** [LdMS+16, ER10, MMK15, PFA+16]. **Low** [For11, DWP16, FBA+11, KKH+17, LM12, LW17, MM16, PLS+10, Pog11, RWVK11, WJK11]. **low-level** [LM12]. **low-pass** [FBA+11]. **low-resolution** [RWVK11]. **low-salinity** [DWP16]. **lowbush** [BHD17]. **lower** [KLS17, LVV+15, WRSL11, GFP+16, HKM+18, WAGM17]. **lowland** [HG17, Lin15b, PGKG12, TVF+10, WB16]. **LOWQM** [Jam16]. **Loxodonta** [MMS12]. **LPJ** [SM14]. **LTER** [SFB+15]. **Lubei** [ZZF15]. **LUCC** [LCDJ+12]. **lucius** [BVP+13, MMVAHMC16]. **Lujiang** [YLW+11]. **lumpy** [BRMW18, WRMB18]. **lupus** [CWL+16]. **Lygodium** [HEJP17]. **Lyme** [WGSR19].

M [Jør14a]. **maackianus** [HH12]. **MACAROMOD** [RPC+17]. **Macaronesian** [RPC+17]. **Macaw** [HBT+18, MFB17]. **macchia** [MVC+17]. **Machine** [PLB16, CGP12, FKK+18, GMC+19, MHL+19, MRWN19, NGGFM19, SMI+19, WKF+17, ZHLZ17]. **machine-learning** [MHL+19, SMI+19]. **machines** [MMVAHMC16, SZSV12b]. **mackerel** [BRS+18, HCM+18, LCC+14]. **Macquarie** [ATCJ+19]. **macro** [BH13b]. **macro-invertebrates** [BH13b]. **macroalgae** [BN10, CVPH+14, JGB15, SØB14, YMCV21]. **macrobenthic** [CZCL18, KM12b, MGGLBIBD13]. **Macrobrachium** [CLW+19]. **macrochirus** [GV11]. **macroecological** [DDR+18]. **macroinvertebrate** [MR17, SLY+17, TFMP11]. **macroinvertebrate-based** [SLY+17]. **macroinvertebrates** [KSG+14, LBE+13, SMT19a, SMT19b]. **macromolecular** [ANMJ12]. **macrophyte** [GSQ17, JHH+12, LCY+13, NFU19, VAO+17, ZLY+13, ZJL+14]. **macrophyte-derived** [ZJL+14]. **macrophyte-dominated** [ZLY+13]. **macrophyte-rich** [NFU19]. **macrophytes** [LHZ10]. **macrophytic** [GYL+13]. **macroscopic** [DLCR13]. **macrotidal** [GJÁ+10]. **macrozooplankton** [RZF+13]. **made** [AW15, BdCS11]. **Madrid** [RCBPMN10]. **Maestri** [HBT+18]. **Maggiore** [FRM+19]. **MAGI** [ZSKI17]. **main** [GHST19]. **Maine** [MJLC14, SLRC19]. **mainland** [BP10]. **mainstream** [RDV+17]. **maintain** [PBG+17, SRP18]. **maintained** [LCML11]. **maintains** [YZ18]. **maintenance** [MR10]. **maize** [FPO18, FYWA12, HLLO13a, HLLO13b, LZZ+14, SLZ+18]. **major** [HSM+12, HBA16b, MSO10, NP18, SBF15, SBDA16, WKZ+19]. **make** [SBD+19, SKM+16]. **Making** [Gia14, BFNH14, BPT+19, CGL15, EAJG16, GCCJ12, KRE+18, KK15a, NCLP10, SHX+12, SWGC16, WC13c]. **Malacosoma** [BFA11]. **malaianus** [HH12]. **malaria** [MAO19, RDR+13]. **Malawi** [DATI10]. **Malaysia** [ABAA21, LHL+17]. **male** [AMM+14, SK10]. **males** [EEB+17]. **Maling** [RBRK16, SGP18]. **mammal** [DMB+19, GGTP+17, WGL+12]. **mammals** [BFP+18, FAPM12, FCA18, MSCM18, RMR+16]. **man** [BdCS11, dSdCF10].

man-made [BdCS11]. **Manacapuru** [dSdCF10]. **manage** [BMP+19, KØ13, WB16]. **managed** [GCK+15, HBH+12, MWML13a, MPG18, WB17]. **Management** [DA17, ETG+18, GHS+16b, Mur12, TCGC16, ACCM16, AHM+16b, ASP+15, ABC+17, AHF+13, Bae18, BS13, BLD+10a, BlMG+11, BGG16a, BFJZ+11, BEPC15, BT16, BKMK10, CRAP13, CF17, CN10a, CRA+11, Che15a, hCjHMW18, CSH11, CLD+17, CAMCK+12, CMCASS12, DLL18, DS12, DML15, EMH10, FH11, FSM+19a, FSM19b, FBKS17, FS18, GH13, GWC+10, GBB13, GPM16b, GOSH+12, GB15, GYL+13, GS19c, HV12, HPO+15, HBT+18, HCL+16, HT16, HGBA+13, Hol13, HSM+12, Hu16, IS13, ISG13, JGF14, JBB+11, JWLS17, KDK+10, KSSA13, KPLS15, KTM+16, KLGL19, LV17, LBE+17, LSA+19, LVLS14, LLT+17, LHB+18, LKAY15, MFB17, MGR+18, MRD+12, MSMM11, MWML13b, MS16, NCEGB16, Nei11, NBD+13, NNP19, OJM+12, OWMK10, PAT17, PPZ+17, PMB+19, PKT15, PGR+16, PW10b, Pra12, RFV+12, Ret12, SS16, SBD+19, SPR+18, SHCR10]. **management** [SHX+12, SKMB11, SBC+15, SGRAdJ17, SRT16, SLRC19, SB15, SLD+19, TSN17, TLP17, VVA+15, VQS+18, WKZ+19, WRSL11, WEB11, Wil11a, Wil12, WK17, WZL+16, WEJ11, XZCL16, YWA+17, ZBAY14, ZSG12, ZHC+16, ZKR+13, ZWRK13, ZLW+15, ZF11, ZBS14, ZHCX15, **?**, dMLM+17, vDHH+13, MLAT+18, WPZ+11]. **manager** [DML15]. **managers** [KLGL19]. **Managing** [ACDC17, BHD16, DPV+16, ESP+17, GHS+16a, GCTS15, JJMW14, KK13, RP10]. **manganese** [WWYO17, WWYO18]. **Mangrove** [DBS18, CZCL18, GSS+14, MRG13a, MRG13b, PLFO+12, PVL+14, XCL+11, dHR18]. **mangrove-based** [XCL+11]. **Manhattan** [LB17]. **Manica** [GU11]. **maniculatus** [BB18]. **manipulating** [TV15]. **manipulation** [LLFL12]. **manner** [KHHN17, PDG+14]. **Manorina** [HS11]. **mantis** [ADL+10]. **mantle** [SBDA16]. **manual** [MJK+17]. **manure** [GPD+13, MRP+11, SFvB10]. **manure-amended** [SFvB10]. **many** [LM12, OOFVBC16, vdVJS16]. **map** [BFR17, DGKSM13, LLC11, PGKG12, RFV+12, SSM+13]. **Mapping** [ASP+15, Hat14, HS11, MAO19, SGP18, CCLX17, COK+11, Fai10, JBV+15, KDK+10, KS17a, KS17b, MGGLBIBD13, dMHGA10, MOM+11, NPP+18, VSB13, VBS14, WLR+11]. **MAppleT** [DHC14]. **Maps** [BME14, ARTBB14, MMGK15, PLB16, RPPW16, SGRAdJ17]. **March** [Ano10y, Ano10z, Ano11t, Ano11u, Ano12x, Ano13w, Ano14b, Ano14t, Ano15f, Ano15e, Ano16f, Ano16p, Ano17-39, Ano17w, Ano18-27, Ano18-43, Ano19-41, Ano19-48, mLcLJ16]. **Marco** [UB12]. **Marennes** [PLR+13]. **margin** [RW10]. **marginal** [MRES17]. **marginality** [GS19b]. **margins** [DPBK10, WFA+13]. **mariana** [SGG14]. **Marina** [VB10, DLL+19, Hos11, KR10a, KvTL+18]. **Marine** [PCTW17, ANMJ12, AWF10, AMH16, ADJ+17, AGB+13, ADL+10, BS13, BTB17, BJJ12, BPC+17, BV15, BAT+15, BPD+19, CHCC15, CS17, CDL+11, CBP+17, CH14, CSS+16, CPS+19, CGEdM12, CMV+16, CKH15, dSCdA19, CD15, DMB+18, FLH17, Fie12, FHL+13, FBH+14, FBDR17, GMTC+17,

GMvV17, GPP+19, HGWL11, HCZ+17, HVL+19, HN14, HPC13a, HPC13b, IT17, JSH15, JOHW17, KBB+11, LSR16, LMBL12, MFS18, MSCH14a, MSCH14b, NCEGB16, NGL13, PLR+13, PPB+18, PWP+19, PBD+17, PPO12, ROSC15, RKS+10, RMR+16, RA13, SVD+13, SW19, SG11a, TLP17, TM18, UDRA13, VPB+17, VRL14, VASH+16, ZSF+12, MGGLBIBD13]. **marinus** [GMvV17]. **maritime** [JAH+10]. **maritimus** [AML13]. **mark** [ABB+14, BS10c, GMS11, HVL+19, KNPH+17, LCM11, PS13, RGHS11, RDJ19, TB12b, vPTOW18]. **mark-recapture** [BS10c, TB12b, vPTOW18]. **mark-release-recapture** [RDJ19]. **marked** [GMS11]. **market** [HGE+10, TSSL11]. **Markov** [AHS+16, BWA17, CLCC11, CTMS10, FCH+17, GLI+21, KGM12, LLC11, LCMG18, PHC10, Qia12, ST13, VRM+10, YZL12, YZC14]. **Markov-CA** [YZC14]. **Markov-Chain** [KGM12, CLCC11]. **Markovian** [ZGF14]. **marsh** [AHM+16a, CEWW18, DVD+14, FMLM11, LdMS+16]. **Marshes** [WYPF15, CHPS17, GGZ+16, MMK15, ZJL+14]. **Maryland** [WTC+18, TFMP11]. **mask** [SM10]. **Mass** [OBC+21, BLCPB11, CW17, CRUF13, DCZ+15, FE14a, JHH+12, KZR+13, LJR14, MDW+12, MDL+10, MSO10, NOOM+16, PLR+13, SBC+11, URUNAM12, ZKR+13]. **mass-balance** [BLCPB11, DCZ+15, MDL+10]. **mass-balanced** [CRUF13, PLR+13]. **massoniana** [ZXD+13]. **mast** [TB13, VAB+18]. **match** [SKM+16, BHD17]. **Matchstick** [BW12]. **Mate** [VF16, GCR18, MRB14]. **Material** [UAB+11, BJK+16, LDJZC15, LWTZ18]. **Mathematical** [DCMS18, DP15, JWLS17, KK15b, LAK+21, LDP14, MWB+10, Oga18, YTT+11, ZHV14, ALL11, BVC+18, BAT+15, CCF13a, CT12, GSJ+10, GMLRF10, LV17, LPPA15, MSKS13, NGRDTHRL19, PFP+16, PM16, REB+16, SAI10, WHB+16, YXZ+21]. **mathematics** [VMG+12]. **mating** [AOW12, VCE17]. **Matla** [RBM+17]. **matrices** [Log13b, UG12]. **Matrix** [JBV+15, Log13a, AD13, BG19, CMA+13, FLLB11, HFSL14, IPSH14, KFDL+19, LLCR10, MGD+12, MPF+14, MHG18, Mon13, Pat12, Pat14b, POBH10, San19]. **Matsumura** [KL10]. **matter** [BP15, BP16, BP17, BP19, BL15, BKMK10, BBH+11, BPD+19, CKS+17, CSS+17, CGG+18, HSK17, HN14, JG10, KAJØ19, KCB+17, LKP13, MSV12, Nei11, OSS13, RVB+10, SDD+13, SBRD10, TDC+11, WHC+13, YCF15]. **matters** [DDR+18, MU17, XCG+16, ZZA+18]. **mature** [MCS+18]. **maturity** [GAV+11, NJCF11]. **Maui** [dJHMS19]. **MaxEnt** [HMD+16, TLLX19, ZLY16, AG11, CDR+13, MAMNL+15]. **maxima** [SAI10]. **maximization** [Log13a]. **maximizes** [LB15]. **Maximizing** [BK13]. **Maximum** [KSZW16, LKG10, BH17, BND19, Dil10, DS21, FvBM+11, GGV11, KG13, LG10, LG12, MSGG14, MMS12, RFZB12, RHR+15b, Sci11b, SCHGM16, SKM+16, Til15]. **maximus** [MG18, MHG18]. **May** [Ano10h, Ano10j, Ano11x, Ano11y, Ano12-31, Ano12u, Ano13-37, Ano13v, Ano14d, Ano15c, Ano15n, Ano16c, Ano16i, Ano17y, Ano17-27, Ano18-36, Ano18-45, Ano19-44, Ano19-43, WTC+18, BMD18, CEWW18, Log17, PJ17]. **MC2** [PBFS14]. **McGregor** [dOMZ13]. **MCMC** [WC13a, WC13b].

meadow [CSS+19, FBDZ12, SLZ+17]. **meal** [KAJØ19]. **mealybug** [FTK+14]. **mean** [SBVA+13, YTT+11]. **meaning** [MCPB15, RHD+13, RHR+15c]. **meaningful** [MAFG+19, RRH+19]. **means** [BP17, BMF+11a, BMF+11b, GMLRF10, NMC+14]. **measurable** [SDD+13]. **measure** [AOW12, KFvSH15, mLcLJ15, mLcLJ16, PdM11, VPB+12, dHR18]. **Measured** [KLS+14, HMS+10]. **measurement** [HTB13, HTB17, SP12]. **measurements** [Gra14, PSKO16]. **Measures** [Sma13, AMRH19, BNMP11, BvHR+15, CLD+17, GGZ14, GJB+11, HL19, KM12a, NL12]. **Measuring** [ACC+10, AWSS14, AS14, DSM+12, GCV14, Hoa11, MPGCS14, MSFR15, TdS12, ZF19, ALKB10, Hos11, MdMS+19]. **Mechanics** [KR16, RHR+15a]. **mechanism** [BCC+14, hCjHMW18, GGR+13, HDL+16, KKI+14, LWTZ18, XJY+16, XZCL16]. **Mechanisms** [CH15, CMM+10, DSW+17, GGSP14, LYCU14, PMF+13, PMP+13, RPSA12, SCHQA16, TBA19, WSE10, YDT+13]. **Mechanistic** [LHO+16, SBDS13, TKN14, ACC11, BWH13, BMR+18, BCB+11, BPM+17, CHPS17, CKH15, GHWG+14, GBW+15, HB12, HOKH18, LAR+16, PAB13a, PVL+14, POB18, SvdMKS11, SAR11, SJB+16, TS11, TWL11, WHNR19]. **mechanistically** [SBM+11, THO10b]. **mediate** [BPN12]. **mediated** [BMR+18, CWJ+13, FC12, HTL+14, SRM11, ZSKI17]. **mediating** [ERGW+11a, ERGW+11b]. **mediators** [GSSM13]. **medicinal** [GWR11]. **mediopunctata** [CMH14]. **medirostris** [HMP+19b]. **Mediterranean** [BDV+19, DBVS19, PPB+18, WLS+11, AKvO+10, ABGB15, BSASSJ+13, BC11, CCCP17, CRAP13, CHR+13, CB19, CSS+16, CVM+18, CQS15, FAC+19b, FPG+10, GMP13, GDDFT16, HWE+18, IGBSASSJ16, KAF+14, LCAJGFNS14, MSGG14, MFESBG+13, MVC+17, PBD+17, QDH+10, RPA12, SAR11, UDNSLC+18, WLS+10, **?**]. **Mediterranean-type** [HWE+18]. **medium** [NSIiT17]. **meets** [PLB16]. **mega** [WYY+19]. **megafaunal** [Flo14]. **megalopolises** [LZJ+19]. **megalopolitan** [TJYZ11]. **Meganyctiphanes** [JR16]. **megapopulation** [MLG18a]. **Mejillones** [ROSC15]. **Mejillonesa** [OBC+21]. **melanoleuca** [GFW+17]. **melanophys** [HS11]. **mellifera** [RBH13]. **mellowed** [Jen12]. **melodus** [GKF+14]. **memory** [ADF13, EIG+10, GM10, GPZB18, KKI+14]. **memory-based** [KKI+14]. **menhaden** [DC10]. **mental** [KHHN17]. **mercury** [AML13, CW17, FE14a, FE14b]. **Merging** [AVG14, MK19, SJGB16]. **Merodon** [KTV+15]. **meromictic** [PBK14]. **mesh** [Lec17]. **Mesic** [SHB+11a]. **Meso** [MTJF11b]. **Meso-American** [MTJF11b]. **mesocosm** [KPS19, SPP18]. **mesocosms** [DJT+19, MM16]. **mesoFON** [GSS+14]. **mesophilic** [Vav10]. **mesophyll** [MEC14]. **mesopredator** [ACE+17]. **mesotrophic** [CT11]. **mesozooplankton** [ANMJ12, AHS14]. **meta** [BBC+19, CR12a, JBB+11, JS12, SLSS15, TŠAD12, WGA+13]. **meta-analysis** [WGA+13]. **meta-ecosystem** [CR12a]. **meta-ecosystems** [BBC+19, JS12]. **meta-heuristic** [TŠAD12]. **meta-model** [SLSS15]. **meta-population** [JBB+11]. **metabolic** [AYASR+17, BND19, CSL+12,

DLL+19, FD19, HZZ+18, HB12, RMLTCQ+19, Wal16, XTLM15, ZPZ+15, ZYFL10, ZLF+11, ZLC13, ZLF14, ZLF+15, ZLFZ16, ZMH19]. **metabolism** [CdMMF16, Che15a, CHVH13, CLNN14, FKWZ19, GZS+18, GRD+14, Hal11, HM18b, LHL18, LWTZ18, MGW+13, XZSL17, YKZZ14, ZYLY11, ZLZ17c, ZLZ17b, ZWF18, ZF19, ZHCX15]. **metabolisms** [LG17, MTL+10]. **metabolites** [SWS16]. **metacommunities** [BND19, CH19, DRS+16]. **metacommunity** [Con11, Con12, FGPR10, SBC+15]. **Metagenome** [RMLTCQ+19]. **metagenomes** [ZPZ+15]. **metagenomics** [AYASR+17]. **metal** [AJDS16, GSPSP15, RM13]. **metals** [BCC+11, BCC+14, GVC10, HZT+13, MAP+13, MB17, TLL+17]. **metamer** [GCR18]. **Metapopulation** [GBB13, NSN17, UM18, BD18, BP10, BNP10, CJM+12, CDG15, KPLS15, LJAD17, LBR16, LW17, MAM+12, MRD+12, MRM+17, PP10, Pec12, RJG+13, Uch16, WPG15]. **metapopulations** [MP13, RHO11, RAdA12, RP10, SSS+11, WFA+13]. **Meteorological** [SHM+17, CTP+17, Jam16]. **methane** [KVS17, LHZS10, VRC17, VRL18]. **methanization** [Vav10]. **methanogenesis** [COPP13, PJ16, Vav12]. **methanol** [Vav10]. **Method** [CVS+13, HKVD16, AFC12, AH17, Bai18, BLBB13, BRHD15, BHPF14, CGV+15, Cho13, DFL+16, DB15, DDR+18, FHL+13, GH13, GB16a, HMD+16, Jør15a, Jør15b, KDK+10, LSZC10, LPT+18, LWC+18, LZZW17, LP17, MLY+19, OKS+11, Sci11a, SML12, TFMP11, WLR+11, WHC+13, XPY+14, YKL+12]. **Methodological** [GRRU15, CBR+16, DWNN10, DAF+11, FCLFB18, JTM+17]. **methodologies** [BCT15]. **Methodology** [MA10, SBC13, BHD16, BYR18, CLBSG11, KCP+15, MK13, YL18]. **Methods** [BMCG12, FG11, Lec17, LLCR11, SW11, SZVV10, VG19, AADA14, BTM+10, BCJ+12, BS10c, BP10, BPD+19, Cam15, CGL15, ČTT+12, Cho13, DPLC13, FIG+10, FBH+14, FKK+18, GdSHA10, HLW15, LBR+17, LLCR10, LWY+11, MGW+13, PWBG16, PBO19, Pat12, Pat14b, PMH17, PES19, PBT+11, Pér18, RWS+15, SZV14, SvWP+15, Sil11, THBF+17, TAGC+16, WTG+16, ZLY16, Jör11a]. **methylisoborneol** [HD14, HD16]. **Metric** [NG11, GO15a, SLY+17]. **Metrics** [Mar12, BFS11, FSB13, FCA18, HHD12, Kos17, LBH+15, SvWP+15, SDEP18, WBB+21, WZL+16, dHR18]. **Metropolis** [CTMS10]. **Metropolis-Coupled** [CTMS10]. **metropolitan** [HLW15, LDYL18, TOQW11]. **Mexican** [FMBD15, MROGVR12]. **Mexico** [RR10, BLLJ17, CNH+11, CMCASS12, HHC15, KWGG19, LLC+17, LMGW16, MAC14, MZLCSZdP11, PDAL14, RIMPBT19, SLW17, ZRCNLI+15, dMSL+16]. **MF** [DA17]. **MFA** [mNkGyT+17]. **MFA-based** [mNkGyT+17]. **Mg** [GVV+16]. **MIB** [HD14, HD16]. **Mice** [TB13, PME+16]. **Michigan** [SGDP19]. **Michx** [ARM+12]. **Miconia** [PMS11]. **micro** [BA14b, DCMK11, FSV+12]. **micro-organisms** [DCMK11]. **micro-scale** [BA14b]. **microalgae** [RM13, TIC+14]. **microalgal** [BAP18, ZYZ17]. **microbial** [CDL+11, GGVB11, IMW+17, KMKL19, LS18, LD16, MFD+15, SMLH+11, Vav10, Vav12, WHB+16]. **microbially** [PHP+14]. **microbiome**

[RMLTCQ+19]. **microclimate** [FP13]. **microcosm** [LHO+16]. **Microcystis** [CIHL14, LZYH19, MUP+13, MvdWU+16, WFW+17, YLC+18]. **microecosystem** [LBN+18]. **microendemic** [PMF+13]. **microhabitats** [BPN12]. **microorganisms** [BVGR+17, SBRD10]. **Microparasitic** [BPK+16]. **microphyllum** [HEJP17]. **microphytobenthos** [HPG+10, HPRNP12, RGU+15]. **microplus** [WTG+16]. **microscale** [VPM+18]. **microscopic** [DLCR13]. **microtopography** [WRM+11]. **microwave** [BW12]. **microzooplankton** [SPP18]. **Mid** [CAMNN16, LLZ+16, DMR13, Fat10, RPP+15]. **mid-2010** [Fat10]. **mid-Atlantic** [DMR13]. **Mid-Continent** [LLZ+16]. **Mid-Norway** [CAMNN16]. **mid-water** [RPP+15]. **middle** [GWZ+15, IGR+18, JX17, Mur12, MSB+17]. **midlittoral** [FAC+19b]. **midst** [RW10]. **Midwest** [PANL11, LLT+14]. **midwestern** [LN11, LN16, CPS15]. **migrating** [ATL18, ZBMC14]. **Migration** [ACE+13, AMG19, BVP+13, BLFS18, BS10c, CWLC13, CAMNN16, DDBK15, DP15, FSN+15, Flo18, GGZ14, HMA10a, LCD+16, LSJG17, MvdWU+16, MSO10, NZL13, NWAR11, OAPP12, PR13, PHP15, RCSS13, RH15, SH18, SSW+18]. **migrations** [BVJE18, MNHW+13]. **migratory** [AGB+13, JJKJ11, KNPH+17, KK12a, OOH+12, TZD+15]. **Milking** [Mat17]. **mill** [RDJ19]. **Mille** [KVP16]. **millennia** [CK12]. **MINDY** [GBR+13a]. **mine** [ZF11]. **Mineral** [JZCL14, NPH+17]. **mineralisation** [OTA16]. **mineralization** [Gra14, MRP+11, ZTJ+10]. **minerals** [DB15]. **miners** [HS11]. **mini** [LTL+13]. **mini-model** [LTL+13]. **minimal** [CCW+15a, CCW+15b, Loe14]. **minimally** [MCL+17]. **minimises** [CMD12]. **Minimizing** [JTM+17]. **Minimum** [SPM+18, JMW11, LH15, LYSW15, RRH+19, VEK12, VCSSC12]. **Mining** [WC13c, BRHD15, LST15, NW18, ZFT+10]. **Minnesota** [JFS+12, KVP16]. **minor** [LBdA+19]. **Miq** [HH12]. **mirages** [UM18]. **Miscanthus** [MWD+15, Pog11]. **misclassification** [BMP+19]. **misidentification** [LCMG18]. **Mississippi** [DWNN10, DVF+19, PSBH16, BPC+17, SCB13, WCL+17]. **Missouri** [WAGM17, SHX+12]. **mistakes** [AW15]. **mite** [dOMZ13]. **mitigate** [dSGGBW12, SS16]. **mitigated** [KPTC14]. **mitigation** [ACSR+13, ACC11, BNMP11, BG15, MSS+19, RHB14, SSN+18]. **mixed** [ACM15, BBC+19, CCCP17, FT16, GBP+10, KKBZ17, LAD11, RLS11, RHZ+18, STSA10, SKK+13, SMH16]. **mixed-effects** [CCCP17]. **mixed-forest** [ACM15]. **mixed-species** [FT16, RLS11]. **mixedwoods** [BHC+15]. **mixing** [ABR12b, ABR12c, BM16, LY16, PLR+13, PFR15, TGM+21]. **mixture** [DAP18, ZR19]. **mixtures** [FDHL17, Gar17, YHW+12]. **Mn** [GVV+16]. **Mnemiopsis** [AALP18]. **mobile** [MRC19, MHY+15, PC15, Sto10]. **mobility** [PJ15]. **mode** [KP13]. **Model** [AHM+16b, Ano12a, BRV11, BdCS11, BMCG12, BS17, CBB19, Con12, CR12b, DFD11, ERGW+11a, GAC+14, GHH+15, HPJ15, HLLO13a,

IMW+17, Jam16, Jør15a, KHKC+18, KS17a, mLcLJ16, LSJ+19, LXS+16, Lin16, MTL+10, PVM12, PVM13, Pat10, PTE+12, PLS11, SELB10, SMT19b, SFC+12, SYL+13, SZVV10, SKTG11, WSW+13, WLF+16, WYPF15, YYQ11, YTT+11, ZYFL10, ZLC13, ZLF14, dÁSMRT+19, ATL18, AMG19, AD13, AMF12, ANMJ12, AHS14, ACCM16, ABB+10, ABD+18, AAJB21, AD12, AHS+17, AHM+16a, AK17, ABK+16, Ana17, AHNK13, AD16, AD18, ARM+12, ADF+17, ACN14, AB10, ABL+13, ABC+17, AS12, ACSR+13, ASV19, ACC11, ADF13, AJDS16, BTM+10, BVP+13, BDL+13, BAAB18, BSC+15a, BWH13, BAB+16, BMR+18, BHD17, BCB+11, BSW18, BDV+19, Ban11, BP15, BP16, BP17, BP19, BKV17, BCP16, BKN21, BHHM10]. **model** [BGK+16, BLLJ17, BH17, BBDB13, BWC17, BR16, BMMC21, BS16a, BLD+10a, BlMG+11, BG15, BTB17, BLBB13, BH13b, BSH17, Ber13, BPR+11, BRM+14, BBL+17, BFNH14, BBGJ13, BKM+18, BNC+18, BJR16, BSCG10, BBL11b, BD18, BPM+17, BSHG16, BBH+11, BS16b, BvHR+15, BCD12, BSH+10, BSZ+11, BKB10, BvBB10, BS10c, BP10, BRF+11, BPN12, BFKS16, BRB14, CGLA10, CAL13, CCS13, CTB+12, CL12a, CC12, CDR+13, CZC+15, CHPS17, CPD+11, CMH14, CRUF13, CVS+13, CCW+15a, CCW+15b, CF17, ČTT+12, CHvdW+10, CLH17, CC10, CCSF11, CCF13a, CWL+16, Cha12, CRA+11, CCL14, Che10, CZW10, CZ11, CT11, CZR+14, CC14, Che15b, CpW16, CDK+17, CLW+19, COPP13, CKS+17, CSS+17, CGG+18, CN11, CLD+17, CLCC11, CCC12, CTMS10, CH14, CDT10, CPS+14, CMSPJ11, CMGF14, CCG15, CBB+10, CBA10, CBA16]. **model** [CSFR15, CV19, CMEP15, CKH15, dSCdA18, dSCdA19, CLL+15, CDG15, CWM12, CTP+17, CSL+12, CGM+14, DC10, DATI10, DJT+19, DWD19, DLL+19, DAA+12, DTS+12, DCMK11, DdSCG11, DR17, DHC16, DBK+13, DLCR13, DAW+10, DUASLB+12, DVCM+10, DBVS19, DA17, DFRT14, DSM+12, DPLC13, DKM+14, DCZ+15, DVT+10, DFF17, DWP13, DG16, DJMBD+13, DBJ13, EMH10, EGA12, EPA+10a, EPA+10b, ECO+14, EEB+17, EEK+18, FPO18, FTK+14, FLLB11, FSB13, FLH17, FM11, FMA+12, FRM+19, FBB+18, Fie12, FHL+13, FGPR10, FBdP+16, For14, FT16, For18a, For18b, FSS+17, FB13, FAPM12, FP13, FDM+11, FPG11, FPWG14, FBKS17, FS18, GH13, GWHL15, GYL+15, GHS+16a, GLC+18, GCA16, GEEC14, GDT+14, GZK+11, GvdWBS11, GGSP14, GDTP13, GSA+19, GMLRF10, GKL18, GS19a, GS19b, GORJ12, GU11, GO15b, GANB11, GPZB18]. **model** [GBP+10, GFP+16, GC14, GS10, GBR+13a, GBW+15, GLS10b, GAF+14, GJK+15, GJB+11, GNB+14, GMvV17, GSS+14, GLS+17, GCW+16, GLI+21, GPD+13, GLY+15, GLRT16, GS19c, GCM+13, GPC14, HHC+13, HM18a, HM19, HMD+16, HFSL14, HMP+19b, HKL+11, HLS+14, qHLlZ+16, HZSH17, HFH+19, HHD12, HBP18, HD14, HD16, HSTS19, HTL+14, HFB+11, HCL+14, HHL17, Hei11, HHC15, HW12, HGAT17, HBSF16, HBH+12, HLK+12, HHvO+17, HVCP16, HSVL12, HL19, HOKH18, HPC13b, HRWT12, Hos11, HWL17, HNWT10, HHF+10, HGLZ13, HBA16a, HBA16b, HG17, HYL+17, HAA+21, HBL18, HGN+16, HSD+15, HPW+12, HBB15, IFC14, IT17, IWW12,

IGR+18, IN16, IKH+11, JSKK15, JZ12, JNHF18, JBB+11, JSL+10, JTB+19, JZG10, JHH+12, JDZC14, JCKG15, JLZ+18, JOHW17, JHT+14, JJS10, JL18, JN15b, JAKJ10, JDGJ13, JNC+11, KR10a, KK13, KCLL14, KWS+13]. **model** [KUI+18, KB10, KW18, KWH14, KJMA11, KTGH19, KYvdPS14, KDMPC10, KL10, KLS17, KHJ+19, KPS17, KHW+17, KEM+16, KdVRdW17, KB18, KH15, KGD14, KCB+17, KPT11, KPK+17, KVS17, KK12a, KWJH16, KKI+14, KVP16, KKK+19, KB11, KMS+12, KMS+13, LV17, LJLC15, LJBS12, LKMCW14, LAK+21, LKKK+14, LBR+17, LDG14, LAR+16, LJR14, LDS14, LLB+19, LAD11, LMT13, LSR16, LBSB+14, LJ15a, LKLK15, LSA+19, LLC+17, LBE+13, LH15, LWKS10, LPPA15, LF11, LkSXhX17, LLL+10, LHZS10, LAB+10, LHZ10, LHZN11, LDL12, LTL+13, LCL+13, LLM+13, LZZ+14, LLT+14, LJ14, LCCL15, LLZ+15, LJ15b, LYSW15, LYJ+15, LJ15c, LLZ+16, LHP16, LSJG17, LYD+17, LS18, LZ10, LHB+18, LQW+19, LLQN13, LDP14, LDM15b, LMCA+12, LKP13, LGY10, LLC11, LVZ+11, LCTH12, LSGT13, LBS+14, Loe12, Loe14, Log13a, LIM+16, Löp11, LSL10, LHLW15, LL18b, LSM19, MTZ+10, MLW11]. **model** [MW12, MW15, MCWG21, MBSW12, MDW+12, MMD+17, MSP+13, MCH15, MGMR15, MD16, MRM16, MBG17, MJB+11a, MPM+15, MRN12, MKL14, MLMFN+15, MdlP15, MJL+13, MJL+14, MYHN17, Mat17, MKSL+17, MTGD17, MKTO19, MFS18, McC16, MU10, MBUM12, MGCL17, MSCM18, MvdWU+16, MTJF11a, MAP+13, MSF18, Md18, MG18, MHG18, MK19, MDL+10, MRES17, MWML13a, MLAT+18, MBM+18, MPL+16, MJF19, MH10, MSHC13, Mon13, MGSB11, MMGK15, MP17, MAMNL+15, MSCH14a, MSCH14b, MDVG+15, MSO10, MCP16, MSFR15, MATS14, MGW+21, MEC14, MJGC13, MMMCAHM21, Mur11, MS16, Nak17, NP18, NOOM+16, Ned15, NBK+11, NB11, NPJ+17, NMA+19, NPH+17, NGRDTHRL19, NG11, NiSK21, OE12, Och10, OJ10, OFH+19, OJ15, OWMK10, OCCF17, OKS+11, OGOWW16, PRHH13, PKB+18, PSB+17, PBB+14, PC17, PCTW17, PFP+16, PDAL14, PGW19]. **model** [PHP+14, PBD19, PLS+10, PHC10, PD12, PAB13a, PBFS14, PLL+19, PRH17, PMRGF10, PWK+17, PGK+13, PKW+10, PP12, PNHL14, PZM13, PHP15, PGG14, PvVC13, PMS11, PGGMMA19, PMTKC17, PBK14, PPO12, PME+16, Qia12, QCLW18, QDH+10, QFG+13, ROG+16, RKL+15, RVL+18, RML+15, RMP+18, RJH+10, RL15, RSE10, RFZB12, RMTM+16, REB+16, RPM13, RAF17, RRHH10, RSDP+12, RHZ+18, RPC+17, Rin14, RPGA15, RNS+19, RGRMRR18, RRJVA13, RCC+11, RCG+13, RDR+13, RDD+17, RCGC17, RAB+10, RMHE15, RWvDM15, RDD+14, RPGSCF16, RPA12, RML+13, RR10, RWP11, RBGB16, RP11, SZSV12a, SJTS13, SLW17, SRHL11, SBCB13, SMSAN+14, SLSS15, SFM+18, SNS+12, SBM+12, SR14, SHT+21, SAAD16, SKHH19, SW11, SBDS13, SJS+13, SAR11, SM13, SDD+13, SRSS12, SH14, SHCR10, SFvB10, SAI10, SHX+12, SX11, SMS+13, SLY+17, SEHD18, SAW+11]. **model** [Sil11, SMH16, Sim11, SSKJ18, SCH+17, SFL+19, Ske13, SSN+18, SBPZ12, SBA+13, SMG+12, SGG14, SGSR10, SKM+16, SCG+13, SBC+16a, SBC16b,

SGWV15, SvdR10, SGDP19, SRT16, Str15a, Str15b, SGBG19, SP12, SM14, SCG+16, SLZ+17, SSW+18, TTCH+14, THC18, TLLX19, TM12, TGM+21, TCW11, TM18, TŠAD12, TB12b, TOHT14, TT12, TAC+14, TSM+15, TZS+14, TLZ17, TRE+12, TL15, THO10b, TTCC+19, TWH+14, TLRL11, TWL11, Uch16, URUNAM12, UG12, UDNSLCG16, UDNSLC+18, VMSM10, VSF10, VPB+17, VRL14, VH12, VC17b, WB10, WN17, WQD+13, WB14, WLZC11, WPZ+11, WGA+11, WGA+12, WLDL12, WHB12, WGT12, WBC+12, WC13a, WC13b, WMF+13, WGA+13, WJL+13, WM14, dWcWbZ15, WSL17, WTWS19, War10, WHRR15, WO14, WNF+15, WNT+13, WXB10, WV12, WJF+11, WBG+14, WPB14, WCG+11, WS15, WAGM17, WC13c, WLS+10, WLS+11, WFN+16]. **model** [WHNR19, WZL+16, WX11, WPZ+14, WWYO17, XLR11, XZC+17, XPY+14, XYY+16, XZCL16, XSN+18, YL17, YZL12, YLC13, YZC14, YLF+15, YDZ+21, YXZ+21, YZG16, YY11, YY13, YSA+14, YLL+12, YZLX14, YCL+14, YKvWK16, YHJ+17, ZMMHR10, ZHC+16, ZBMBDU+17, ZTJ+10, ZLF+11, ZJM+11, ZLFI11, ZWG+13, ZWRK13, ZJL+14, ZQC15, ZSJ15, ZJL+16, ZLG16, ZLJM17b, ZLZ+17a, ZLJM17a, ZCSL18, ZML+12, ZCS13, ZXD+13, ZZT13, ZBS14, ZZL+19, ZSF+12, ZHLZ17, ZVS18, ZJG10, ZSKI17, dJGM+18, dMSL+16, dOMZ13, dSD18, vDHH+14, vPTOW18, BRM+14, BW12, BKB10, CPS+14, DFM12a, SMBGH+19]. **model-** [MSF18]. **model-assisted** [DSM+12]. **Model-based** [PLS11, SZVV10, dÁSMRT+19, ABC+17, BG15, SBCB13]. **model-building** [SBC+16a]. **model-data** [RHZ+18]. **Modeled** [GEZ+13, XLL15, MGS16, XGH+17]. **Modeling** [ABR12b, ABR12c, AS11, An12, AML13, AGB+13, AHNK13, AB10, AHS+16, ABGB15, AHF+13, AOD+13, BCP15, BAA+14, BBB+17, BKP10, Bar11, BNL+13, BVVS15, BMCG12, BCL+14, BLRN15, BNGP19, BA14b, dÁGP14, dABLBAdOR17, BH10, BN10, BPD+19, CPMP13, CLBG15, CTNH13, CESC19, DJS10, DDBK15, DMZ+19, DJA+10, ESA12, ELPK12, EEFE+11, FSN+15, FMS13, FGH+10, FMW+19, FBH+14, FHG12, FCS13, FKDG14, FBDZ12, GPK+13, GHD+19, GQNMR18, GDC12, GdSHA10, GV11, Gli14, GWK+12, GKW+13, GCCJ12, GRB12, GLI+21, HH12, HN14, HPS10, HZT+13, HKlL14, HSR+15, HKN17, HC11, HNWT10, yHAB12, HQF+17, IGBSASSJ16, JHH+12, JWX18, JAH+10, Jör11a, KKH+17, KD13, KH11, Ken17, KSM+18, LRZ12, LBE+13, LHL+17, LBE+18, LBWW14, LHZ10, LZLC13, LJ13, LJ15c, LZL+18, Lin15b, LL18a, LPSC16, MLW+15, MKF+11, MTPC13, MM16, MRB14, MSV12, MDKK15]. **Modeling** [MJF19, MZLCSZdP11, NP15, NPH+17, Oga17, OBSL15, OdlFDP15, PJ16, PH18, PSBH16, PAB13a, PANL11, RZF+13, RHZ+18, RDJ19, RNE+12, RA13, ŠK14, SCHQA16, San17, SW19, SLB14, SHS+12, SSN+18, STJ15, TW18, TXM+10, TDF+19, TT17b, VSPHS15, WQD+13, WJL14, WDL+15, WB17, WLH+10, WGD+17, WTL17, WSBP13, WFDDR10, WJK11, XCG+16, XTPT11, XC14, YLHZ14, YZA+18, YHZ19, ZBMC14, ZLLC13, ZLW+15, ZZLZ14, ZHCX15, **?**, ACC+10, BS18, BVJE18, BBRJ15, BBJV+11,

Bec10, BMN11, BAP18, BS16a, BEPC15, BT16, BJPB11, BWA17, BLCPB11, CRBC11, CT16, CJLV11, CVPH+14, CWLC13, CdMMF16, CN10a, ČTT+12, CHCC15, CL10, CC11, CLA+12, CB15, CS18, CSF11, CVG+15, CMSPJ11, CPS15, CRQW18, CKMD14, CLNN14, CSFB17, DH18, DSW+17, DSBS15, EKB18, ER13, FKH+15, FCZ13, FP17, FYWA12, FDHL17, FHC15].
modeling [FWRZ10, GWR11, GBG+15, GGZ+16, GCB+11, GGR+13, GCK+15, GHS+16b, GCvDM12, HGPF15, HJ17, HlLB12, HTVE18, HPG+10, HR11, HEJP17, IKK+12, JVY19, JD18, JJKJ11, JC11a, JXL+15, JDT+16, JSCS19, JMB+11, JBW+17, KCF+13, KSSA13, KPSC10, KM12b, KF16, KPLS15, KJS13, LBR16, LMSK12, LZS+17, LPV11, LHR+15, LLP17, LZW+17, LZYH19, LBC+15, LPD14, LVV+15, LAEAG12, LBGM19, LD16, MSG+13, Mar17, MXC13, MROGVR12, MLS+11, MRD+12, MDF+18, MSM+17, MDOJ14, MJLC14, MRR+14, MRG13b, Mul11, Mur12, NFU19, NLMdL10, OHS+17, PCRP12, PNT+19, PFA+16, PRL+13, PMLL11, PSM+12, PDG+14, RJG+13, RJ11, RPSA12, RRR+10, RFZB12, RvKM10, RRG+15, RSD+15, SGBD10, SBR+19, SFMA15, SMH+12, SKH+13, SQWS19, SLH+11, SK11, SKL+13, SCG+13, SV13, TSN15, TB11, TB12a, TMPF18, THJ+12, TZS+14, TKN14, TBL+15, Tul14].
modeling [UKI+11, VVH12, VFFP16, VGR+11, WALCY12, WMW+12, WKF+17, WSE10, XJY+16, XCR+13, XQZ+13, YSH+10, YHS+11, YJW15, YWY10, YLZ15, YDL+15, ZRCNLI+15, ZCR16, ZCL+16, ZJB19, ZDG+13, dAEPE16, dMLM+17].
modelization [VJR+16].
Modell [ABR12b, ABAG16, Bar11, BMF+11a, DYMYGO19a, WLS+11].
modelled [COBF13, EC10, HMS+10, KLS+14, SMC11, ZGF14].
Modelling [AALP18, ABAG14, ACM15, Ano12t, Ano13u, ABAA21, AOW12, AOW13, ARV+16, BNMP11, BDL+13, Bae18, BLY11, BJK+16, BPS+11, BLD+10a, BlMG+11, BFJZ+11, BKMK10, BWP16, BHC+15, BTBM17, BSO13, CMT+11, CEC10, CLBD+11, CGV+15, CSN+19, CY13, CDK+17, CSS+16, CGEdM12, CLBSG11, CK12, DJT+19, DBR12, DOB+15, DYMYGO19a, DYMYGO19b, DBG14b, DH12, DVD+14, DFM12a, DFM12b, DMBS11, EH19, EAJG16, EGMW12, FDP+10, Flo14, FBL+10, FKK+18, GAP+19, GPJL15, GBP+16, GCC+10, GLA11, GSPSP15, GGV11, Gat18, GPTR13, Gra14, GHS+10, GRD+14, GBB+11, GKKW10, GPM16c, GCL+19, HMPC11, HBS+16a, HGWL11, HV15, HSHF+13, HCP10, HPGM18, HB10b, HHK19, HJ10b, HSvO+18, JR16, JX15, JDT+17, JMdW+10, JDP+12, JGB15, JA15b, JASW18, KAJØ19, KSS11, KJVL+17, KBC+12, KPMJ14, KR14, KRCVF16, KvTL+18, LN11, LYP+11, LPA+11].
Modelling [LBE+17, LMR16, LKH+18, LLC+21, LLH+13, LYCZ13, LCFD19, LAK+18, LAC10, LTGD16, MRCW10, MPKC12, MJP+12, MVC+17, MFD+15, MBG+10, MTJF11b, MG18, MHG18, MMC+19, MWML13b, MB17, MRP+11, MWM+16, MNHW+13, MPG18, MOM+11, NW18, OTA16, OES16, OC15, OKS+11, PBL+15, PVBC14, PGZ+19, Pie10b, Pie10a, Pog11, RGU+15, RvS16, RW17, RSP+17, RCST11, RUSL19, RKW12, RIMPBT19, RSC12, RSC13, RBRK16, RPP+15, SDT10, SZV14, SF10, SvdMKS11,

SGA+16, SFF+11, SFC+12, SLW+14, SKMB11, SKK+13, SVH+19, SBRD10, SBC+11, SMKM19, SGH16, SKPHW16, TVF+10, TSSL11, TIC+14, TGB+17, VMG+12, VRC17, VCSSC12, VASH+16, WL13, WMK+13, WFS+19, Wil11b, WBW14, WJvdL+13, YLL+17, YLC+18, YFL+18, ZSS17, ZBAY14, ZLFZ16, ZPNM13, dJHMS19, AWF10, AVL+11, ABR12a, AKvO+10, AW15, ABS17, AMH16, ADJ+17, ACDC17]. **modelling** [AMR16, Ash10, ABD14, Bai18, BGA17, BC13, BKN14, BLD10b, BLB+17, BBC+19, BRW+12, BQF+18, BOF+16, BAJ+11, BLAV18, BNP10, BPR+15, CADB19, CRO13, CHR+13, Che15a, Che17, CLT+11, CAMNN16, CSR15, CB19, CDL+11, CPS+19, CTC+18, dSCdA19, DZS12, DR14, DG11, DCMS18, DVF+19, DDR+18, DP15, DWP16, DSA+18, EFM+10, EIG+10, FCG+19, FCFT16, FD19, FBU14, FAT+15b, GSQ17, GSJ+10, GJÁ+10, Gar17, GPH17, GCCB18, GBB13, GPM16b, GPCG15, GMC+19, GCTS15, GGVB11, GRL18, GdC14, GAF+14, GB16b, GB16d, GDW12, GLY+15, HA18, HBF18, HJWG12, HMD+16, HPJ15, HVL+19, HB13, HCM+18, HKVR13, HMA10a, HJN12, HM17, HOŠ+12, IBH+15, IS13, JBE+15, JG10, JM15, JJYM19, JHHS17, Jør10b, KK16, KGM12, KPM+14, KAF+14, KR10b, KEHG17, KBL10, KL12, KK15b, LHO+16, LBZA19, LMY+11, LBA14]. **modelling** [LBA15, LY16, LJ10, LWNG13, MHL+19, MML+11, MBD+18, MBD+12, MBSF14, MJY17, MU17, MHS+17, MSH+19, MMS12, MVC11, MAFG+19, Md18, MSV+11, Mer12, MOMC17, MPP+15, MGS15, MMC11, MB14, MLG+18b, MSM+16, Mur13, MYJ+14, Nei11, NMC+14, NXZ18, NJCF11, OFK+12, OMH12, OSS13, ODK16, PMB+19, PLFO+12, PVL+14, PLB16, PDD+18, PGA+11, RW10, RLHD11, RPA+18, RJ17, RDR+17, RRH+19, RCBPMN10, RSCS19, RVB+10, RPGSCF16, RBH13, SBVA+13, SBA+19, SFvdM+17, SJGB16, SvWP+15, SSD+17, SVL12, SA16, SLB+18, Sil11, STD15, SHB11b, Sol19, SAKB+10, SGP18, SRM11, SP10, SP11, SHS11, SGHW+17, SPP18, SGKR10, TPL+15, TB13, TRD+15, TSB+18, TLW+14, TKH17, TNHB12, THBF+17, THOA10, TVV13, TMT+18, TPT+11, TPO+18, UDNSLCG16, VPC+14, VKdW+10, VPB+12, VLF+17, WHB+16, WN17, WAS+16]. **modelling** [WFW+17, WTC+18, WGE+19, WJS+18, WGSR19, WCS+14, WSW+16, WMCM12, YBA+16, YJL11, YFC+11, ZMS19, ZSG12, ZRC+15, ZWW+18, ZF19, dFMdSA18, dOAC18, vDSC+10, BH10]. **Models** [Ano12a, CGL15, CPE13, RCS+19, VRM+10, AGJ+12, AGQP+14, AWL+13, AMRH19, AADA14, AMM+14, An12, AG11, Ano17a, AB13, AAFH15, AFC12, AVG14, ALeSD17, BDL+14, BVC+18, BLFS18, BEZ19, BB10, BRV11, BS15, BG19, BTS19, BGD+16, BGG16a, BND19, IHSM12, dÁGP14, BOGA14, BB18, BPWB14, BRS+18, BTPG10, BOW+12, BBH+17, BFJL15, BG11, BGD+15, CCCP17, CMM+10, CBC+16, CLLB12, CBCB17, CSOS17, CCF13b, CMA+13, COY+10, CMCASS12, CRD+16, CVG+15, CBA12, Cra10, CN10b, CN18, DWNN10, DLH+14, DÖWB12, DKJH13, DPV+16, DAP18, DLvGGNC16, EH15, EH19, EEFE+11, EST+19, Fai10, FMW+19, FJH15, FE14a, FYR+18, FtHvdB+14, FCLFB18, FLB+15, FLA19, FMF12,

FCV+12, Fuj16, GHWG+14, GCDA16, GCA16, GGV10, GGV11, GGV13, GLR+19, GWC+10, GMTC+17, GAHE11, GGZ14, GT14, GB16c, GPP+19]. **models** [dSGGBW12, GAV+11, HMP19a, HBR19, HSLC+19, HCW+17, HLS+14, HHD12, HB12, HWS11, HMS+11, HS13a, HTB13, HTB17, HS13c, HS13b, HB10a, HHW11, HBT+18, HCL+16, HB14, HGBA+13, HKP10, Hu16, HhLY+19, IPSH14, JGF14, JKS+10, JDT+17, JWLS17, JSdSdL+18, KFWM19, KM12a, KK10, KMF+21, KSAS12, KFDL+19, Ken19, KKL+12, KZR+13, KP13, KPM+14, KAC+12a, KAC+12b, KCG18, KRL11, KNM+10, KS17a, KS17b, KHHN17, KWGW19, KVU+10, KPS19, KSG+14, KMMS17, LJLC15, LTL+19, LRZ12, LBA14, LBA15, LMT13, LBSB+14, LPF11, LBH+15, Lem16, LBD10, LKDD15, LdMS+16, LLCR11, LZZP16, LHW+15, LLH+17, LPT+18, LS10, Lin10, Lin16, LJWN14, LDCB21, LCDJ+12, LM16, LCMG18, MK13, MG16, MBHW12, MHTC15, Mar12, MGD+12, MLG18a, MWK19, MM19, MA10, MTA19, MROGVR12, MC11, MCR+15, MU10, MSB+17]. **models** [MSMM11, MGS16, MPF+14, MK19, MSV+11, MF12, MAMNL+15, MCN16, MDG10, MDV+12, MBA+19, MJÁ+12, MMMGLN+18, MRTW18, NYIH17, NS15, Ned15, NMS+14, NBSGW19, NF11, NMdR16, OOFVBC16, OGG+16, OT15, OBLJ13, OLG+13, OBC+21, OCD+13, PLR+13, PMM11, PSG19, PES19, Pea15, PBT+11, PRP17, PD15, PWP+19, Phi11, POBH10, PGS16, PLHG14, PMLL11, PFR15, RLB+12, RFV+12, RWS+16, RW17, RLS11, Rem11, RWVK11, RAM10, RR12, RKBG14, RRJVA13, RV15, RKNO17, SZSV13, SHBG10, SC21, SVD+13, San17, San19, SW11, SWS16, SBD+19, SPR+18, SHC+15, SA13, SSK14, Sil11, SGM+14, STD15, SJB+16, SK11, Slo11, Sma13, SLMS14, SWR+16, SPWR17, SPB+17, SAKB+10, SWGC16, Sto10, SMLH+11, SLD+19, Tat16a, TRP12, TFH12, TPG14, TMC+16, TT17a, TTL+18, TFMP11, TS11, TBM+14]. **models** [TAGC+16, UDRA13, VAB+18, VC17a, VALC12, VHDM17, VRA+17, VPM+18, VAK+11, VEMS12, WLY+15, WR13a, WRB+12, WBB+21, WUB15, WBHM11, WR12, WKH19, Wil11b, WHC+13, WYPF15, YSB11, YRGH16, ZBMC14, ZGJ10, ZKR+13, ZLB14, ZZFH15, ZDL+17, ZBSF17, ZR19, dJHMS19, dSdCF10, dSD14, vVBHZ11, vdKGV11, vdVBJS15, vdVJS16, Jør10a]. **moderate** [MMK15]. **modes** [Log19a, Phi11]. **MODFLOW** [ZSKI17]. **MODFLOW-AgroIBIS** [ZSKI17]. **modification** [SV13]. **modifications** [PW10a]. **modified** [KPSC10, KB18, LJ15c, WMF+13, WBHM11]. **Modis** [dMHGA10, KKL+12, LCL+13, PSS16, PSKO16]. **modular** [Kal19, LL18a]. **modularity** [ZRCNLI+15]. **modulate** [VCE17]. **modulates** [GTM+19, PDG+14]. **Modulation** [GCR18, Ver10]. **module** [ALeSD17, LYJ+15, SEHD18, WZGH18, ZSJ15]. **moisture** [DS21, FBA+11, LYD+17, LPS+10, NBK+11, WJK11]. **moisture-based** [FBA+11]. **Molinos** [REB+16]. **Molly** [GBW+15]. **moment** [KCG18]. **monarch** [GPZB18]. **Mongolia** [HYL+17, LWL+17b, SAW+11, YSA+14, ZJL+16]. **Monica** [MJK+17, NBK+11]. **monitor** [Wal15]. **monitored** [WC13c]. **Monitoring**

[CN10a, GZVU14, KFvSH15, KPSC10, LWY+11, BJPB11, CPAG15, CR11, CR12b, HVL+19, Hat14, OFH+19, PWBG16, PGZ+19, PRH17, RHS+16, TPG14, YBA+16, ZCS13]. **monkey** [LML17]. **monkeys** [WFDDR10]. **monocarpic** [HCW+17]. **monoculture** [LYD+17]. **monocultures** [RW10, YHW+12]. **Monod** [Ano17a]. **monotonicity** [ZYKS15]. **monoxide** [LYJ+15]. **montado}** [ABC+17]. **Montana** [RRG+15]. **montane** [ACM15, DH12, HBG+16, MBSF14, PMF+13, PTE+12]. **Monte** [BWA17, CTMS10, HT14, Ken19, KGM12, MA10, Qia12]. **Monte-Carlo** [KGM12]. **monthly** [LCS11, ZTJ+10, ZJM+13]. **Moor** [DA17]. **moorings** [KL12]. **moose** [GJB+11, JSW+13, Rem11]. **moose-vehicle** [GJB+11]. **mor** [LKKK+14]. **Moran** [NS15]. **moratorium** [WDL+15]. **Morava** [SSM+13]. **Moreton** [KSZW16, WEJ11]. **morhua** [IKL13, JNHF18, PWK+17, SLRC19]. **morph** [PH18]. **morphodynamics** [LBD10]. **morphological** [CWLL15, CLBSG11, YMCV21]. **morphometry** [MH10]. **Morris** [BLBB13]. **mortality** [BEZ19, BLW+17, dÁGP14, CCS13, CHNdÁP18, CD15, DSS11, FPO18, GHST19, HLLO13a, HLLO13b, KSS11, KSZW16, MBHW12, PSG19, Pér18, RRG+15, SK10, SVH+19, SGWV15, WC19, War10]. **mosaic** [DSBS15, FPG11, FPWG14, RKC+15, TRD+15, ZWG+13]. **mosaics** [BSS+14, HGSJ15]. **MOSES** [AAJB21, TKH17]. **mosquito** [BVVS15, CTB+12, FKK+18, WKF+17]. **most** [ACK+14, RRH+19]. **Moth** [GKKW10, GBB13, GPM16b, GCTS15, KL10, NS15, SFHK12]. **motile** [BEBA19]. **motile-phytoplankton** [BEBA19]. **motivation** [BA17]. **motivations** [PNHL14]. **Motus** [BLFS18]. **Mount** [Hat14]. **Mountain** [SRT16, AKvO+10, BA14b, BRPK14, GANB11, MVC11, OT15, PGR+16, PBG+17, PB14, RRG+15, TOHT14, TNTH11, CZC+15, MJK+17]. **mountainous** [Bre12]. **Mountains** [FLX+14, GFW+17, KPT11, KMP14, LGDW12, KAF+14, CL12b, FSS+17, GB15, HOŠ+12]. **mouse** [LSGT13, LBS+14]. **mouth** [DVL11]. **move** [TL15]. **Movement** [BPWB14, GGTP+17, KRL11, AHS+16, ADF13, BEZ19, BMSLC16, BV15, CH14, DFL+16, DDBK15, EZ14, GPZB18, GKKW10, HB13, HM17, KNU+15, KK12a, LGMLD19, LB15, MBG17, MLS+11, MHY+15, OC15, PHP15, PPBD13, RR10, Str15a, Str15b, VF16, WR13a, WR17, WSC+19, ZDL+17, ZHV14]. **movements** [ALKB10, APWT15, BLH10, BKP10, Bar11, BFNH14, CLD+17, FBH+14, FS18, HCM+18, LAK+18, RV13, TDF+19, VSPHS15]. **Moving** [BL15, MRWN19, WK11]. **mowing** [LSA+19]. **mown** [MBA+19]. **MPA** [CGEdM12]. **MRIO** [WFSH15]. **Mu** [HYL+17]. **much** [DFH+14, ESP+17, MS14]. **mud** [CSN+19]. **Multi** [BRHD15, CN11, CTP+17, CL12b, DSA+18, HZZ+18, HLK+12, KHW+17, SGDP19, VFFP16, ABB+14, AMR16, AH17, BKN21, BMMC21, BGGL16, BGMJ+12, BHPF14, CRB16, CF17, CY13, CSFR15, DTS+12, DVL11, EBA+19, FHAG12, FGPR10, FD19, GSQ17, GLC+18, GBL+13, GOSH+12, HZSH17, HMS+11, HCP10, HPO+15, ISG13, JZG10, KGM12, KK15a, KH15, LVB+15, LM13, LSJG17, LYC+15a, LP17, LCDJ+12, MBA+19, NLM+19,

NNP19, PK14, PWK+17, RKC+15, SHX+12, SLY+17, Tat16a, TAC+14, TOQW11, TNHB12, WFS+19, WK17, WKH19, Yan11, YLF+15, YHJ+17, ZWRK13, ZQC15, ZZJ+16, ZLZ+17a, ZZT13]. **multi-actor** [GBL+13]. **Multi-agent** [ZZJ+16, BMMC21, DVL11, GLC+18, HZSH17, TOQW11]. **multi-basin** [ZWRK13]. **Multi-criteria** [VFFP16, SHX+12]. **multi-criterion** [ZZT13]. **multi-disciplinary** [LP17]. **multi-field** [DTS+12]. **multi-fleet** [ISG13]. **multi-grain** [LVB+15]. **multi-layered** [AMR16]. **Multi-level** [HLK+12, FD19, KH15, LCDJ+12, PWK+17]. **Multi-method** [BRHD15, AH17, BHPF14, LP17]. **multi-metric** [SLY+17]. **Multi-model** [CTP+17, YHJ+17]. **Multi-objective** [CN11, DSA+18, CRB16, EBA+19, GOSH+12, NNP19, Tat16a, WK17, WKH19, Yan11, ZZJ+16]. **multi-purpose** [KK15a]. **multi-regional** [ZQC15]. **Multi-scale** [HZZ+18, SGDP19, CY13, FHAG12, HCP10, NLM+19, YLF+15]. **multi-scaled** [WFS+19]. **multi-sector** [KGM12]. **Multi-site** [KHW+17, HMS+11]. **multi-sources** [ZLZ+17a]. **multi-species** [ABB+14, BKN21, CF17, CSFR15, FGPR10, GSQ17, ISG13, JZG10, LM13, LYC+15a, MBA+19, RKC+15]. **Multi-taxa** [CL12b]. **multi-temporal** [LSJG17, PK14, TAC+14]. **multi-trophic** [TNHB12]. **multi-type** [BGMJ+12]. **multi-year** [BGGL16]. **multiannual** [vDHH+13]. **multicriteria** [HFU11, ZH11]. **multilayer** [Fis21, MMMCAHM21]. **Multimedia** [XQZ+13]. **multimodal** [PP19]. **multinational** [HSM+12]. **Multiple** [dSCdA18, PW10a, AHS+17, BWH13, BG19, BR16, BA17, BPC+17, CZR+14, DH18, Fai10, HL19, IT17, JBW+17, KDK+10, KR16, LZZP16, MAC14, MTJF11b, MSHC13, MMPG16, POS+19, PGATS13, PÓF+18, SFM+18, SG11b, SYY+19, WBC+12, WCS+14, ZBAY14, ZHC+16]. **multiple-expert** [MSHC13]. **Multiplex** [PCRP12]. **multiplicative** [BVC+18]. **multiscale** [ChHC12, DHC14, MTJF11a]. **Multisite** [AADA14]. **Multisite-multivariable** [AADA14]. **multispecies** [BFPR16, CRD+16, For18a, GDC12, GHS+16b, HW12, MFD+15, NB11, PF12, TTCC+19]. **multispectral** [KHS+19, PSKO16]. **multistage** [BP19]. **multistate** [BS10c, TB12b]. **multitrophic** [RSDP+12]. **multivariable** [AADA14]. **multivariate** [LGY10, WLC+19]. **mungbean** [BKM+18]. **MungGro** [BKM+18]. **municipal** [BWRA16, ZHCX15]. **municipalities** [ZQC15]. **municipality** [MSS+19, dHR18]. **muntjak** [SK11]. **Murgia** [LDM15a]. **Murrumbidgee** [WRSL11]. **Muscidae** [LIM+16]. **mussel** [DWNN10, DMB+18, FWRZ10, HSvO+18, LSR16, dÁSMRT+19]. **Mussels** [CPS15, KVP16, Lin15b, PCRP12]. **muta** [ZPNM13]. **mutations** [HDL+16]. **Mutual** [JJS10, dSCdA18, F.11]. **mutualism** [CN18, IKH+11, JBE+15, MCA18]. **mutualisms** [WSE10]. **mutualistic** [BBHP13, LG12, MCA18]. **mycorrhizal** [JBE+15]. **mycorrhizas** [VH12]. **myiasis** [LIM+16]. **mykiss** [KGM12, MSB+17]. **Myrna** [Wei19]. **Myzus** [GOSH+12].

N [DVD+14, DAP18, HMS+11, HBA16a, LWGH13, LYJ+15, LSM19, MRP+11, MEC14, SBC+11, TGM+21, WB14, ZR19]. **N-labelling** [TGM+21]. **N-mixture** [DAP18, ZR19]. **N/P** [WB14]. **N14C** [TRE+12]. **NACP** [HPW+12]. **Nakdong** [BS18, JJKJ11, KHJ+19]. **NANI** [HSM+12]. **NANI/NAPI** [HSM+12]. **NAPI** [HSM+12]. **Naples** [ZW10]. **Narragansett** [BN10, BLCPB11]. **narrative** [AH17]. **Nassella** [JBB+11]. **natal** [DCCS17]. **National** [BFKS16, CBGK15, HSK17, KPT11, LDM15a, MNHW+13, MAM+10, NGR+11, SHM+14, WALCY12, ZPZ+15, OLG+13, YWH15]. **nationwide** [JVY19]. **native** [BGC10, CPS15, GQRC+17, MAC+12, PK16, PGZ+19, PTL14, TBA19, XCG+16]. **Natural** [FBDR17, Kat11, PPB+18, An12, ALC12, ASP+15, BWH13, BPC+17, BPU11, BPD+19, CPMP13, CC11, CBP+17, DYU+12, DWP11, FHG12, GHP12, HMP19a, HMS+10, IBD+19, Ken17, KSZW16, KCG18, LHZS10, LCDJ+12, MNEG11, PVM12, PVM13, Pen11, PBD+17, Pra12, SFF+11, TLLX19, TDC+11, TS11, VPB+17, WALCY12, Wil11a]. **natural-disturbance** [HMS+10]. **naturalized** [GV15]. **Nature** [JJS10, LLL+10, LKG+17, LCS11, LYC+15b, WALCY12, BvHR+15, EMH10, FLA19, LYC+15a, LLL17, LP17, LLL19, Par10, Ula10, VLZ+19, WGTH16, WFS+19, Pat14a]. **nature-based** [VLZ+19]. **navigating** [PP19]. **NC** [DLH+14, JMB+11]. **NDVI** [DBR12, WYS12]. **NDVI-based** [WYS12]. **near** [WLZC11]. **near-shore** [WLZC11]. **nearshore** [BPC+17, CBP+17, YSH+10, YKCN10]. **necessity** [NU11]. **nectar** [BGK+16]. **nectar/pollen** [BGK+16]. **need** [GHD+19, GYL+13, NLMdL10, SBM+12, VMP+19]. **needed** [Bus17, ESP+17]. **negative** [TTCC+19, WKZ+19, YZ18]. **neglected** [RDV+17, STJ15]. **neglecting** [NBSGW19]. **Negro** [IGR+18]. **neighborhood** [GDBB19, HB14]. **neighborhoods** [Hal11]. **neighboring** [FHG12]. **neighbourhood** [RAM10]. **neighbouring** [LLH+13]. **nekton** [LdMS+16]. **nelsoni** [RR10]. **nematode** [RWvDM15]. **nematodes** [SU15]. **Neolithic** [ABGB15]. **Neoseiulus** [dOMZ13]. **Neotropical** [BFNH14, GAV+11, HCP10, RV15]. **Neotropics** [GdSHA10]. **NEP** [MGS16]. **nest** [DWWS15, GKF+14, JJKJ11, Rin14]. **nested** [MCPB13, MCPB15, RDD+18]. **nesting** [DBP16, FMW+19, HVL+19, KK13]. **Net** [OLC+17, Bai18, BLY11, Bus17, CPMP13, CSS+19, CLWH15, FCG+19, HSM+12, HNWT10, yHAB12, HSD+15, JMSM12, KHW+17, LCL+13, LLT+14, Pie10b, Pie10a, RHvdTS14, SNS+12, SH18, SM14, SLZ+17, WGA+11, WGA+12, XM13]. **Network** [AD18, BFS11, BFW14, BME14, CBGK15, CR11, CR12b, JMdW+10, KCF18, LYC+15b, OCB+13, SSF14, SDS+21, TLL+17, ABB+10, AAW+15, Ano12s, BA14a, BGC10, BT16, BS10a, BSMA18, BK13, CD17, CXW19, DPPI14, DSD13, DSW+17, FSB13, FBH+14, FLB+15, GKF+14, GDDFT16, GLC+15, HKL+11, HB14, JBCÑ11, JGX13, KB10, KM12a, KHJ+19, LLL+10, LY11, LHL18, LWTZ18, Lin10, Lin16, LYCZ11, LYC+15a, MY11,

MCW13, MWY+18, Mar12, Mar17, MFS18, Mat13, MR17, MJC+11, MHC16, MSFR15, NWAR11, NWAR12, OBC+21, PMS+17, Pat15, Pat14b, Pau14, PICR13, RBM+17, RRR+10, RAR15, RRvdG18, RMLTCQ+19, SSV+12, SM10, SFB+15, SYY+19, SSW+18, TRD+15, TLZ17, TWP+14, URR+17, VC17a, VPB+12, WPG15, WZD+14, WPB14, WC13c, XZCL16, YJW15, YM21, ZRCNLI+15, ZYFL10, ZZF15, ZLFZ16, ZZ17, ZLZ17b, ZMH19, vSGR16, KCF17, LLKY18]. **Network-agent** [AD18]. **network-environ-analysis** [Ano12s, MCW13]. **Networks** [CPE13, MDH15, Pec12, ASL13, AS14, BYR18, BFJ+11, BFR17, BS10b, BNP10, FRP18, GHD+19, GO15a, GMK+19, HPJ15, JN14, JN15a, KSSA13, KvOP10, mLcLJ15, mLcLJ16, LS13, LPX+12, LJCG15, MJLC14, NNP19, NF11, OOFVBC16, PW10a, Pat12, PAEE19, PGATS13, PSWW11, RHW17, SB11, SZNL19, SCBH18, VC17b, WWC+18, WLR+11, YZ16, YZ18, YXZ+21, ZB15, dAEPE16, vSGR16]. **Neural** [CPE13, RRR+10, ASL13, BT16, GO15a, GDDFT16, JBCÑ11, JGX13, KHJ+19, LPX+12, MFS18, NNP19, PSWW11, SSW+18, TLZ17, WLR+11, WZD+14, ZZ17]. **Neuse** [WPB14]. **Neusiedl** [HRSKW15]. **Neutral** [Con11, WYPF15, BRMW18, Che15b, Che16, KWH14, LS18, VC17b, WR12, WRMB18, XZZ+13, Con12]. **Nevada** [FMF12]. **Nevados** [ZPZ+15]. **newly** [PTL14]. **newt** [MJK+17]. **Newton** [Kat11]. **Next** [GB16b, GB16d, JDT+16, SLW17, SJB+16]. **Next-generation** [GB16b, GB16d, SLW17]. **nexus** [CL15a, FKWZ19, GLC+18, Ju19, LZL+18, NLM+19, XYTS19]. **Nguruman** [LDM15b]. **Niche** [CPE13, ACE+13, BBJV+11, IHSM12, BOGA14, BB18, CGV+15, CH12, DBR12, DGKSM13, FP17, FHAG12, GWR11, GLSA+11, qHLlZ+16, HGAT17, JSCS19, JSdSdL+18, KFWM19, LJ15a, LPT+18, MWK19, MAFG+19, MMMCAHM21, OCD+13, PNT+19, PKW+10, RHS+15, RHD+16, RVB+10, SBM+12, SA13, Sil11, SGM+14, TTL+18, HKVD16]. **niche-based** [KFWM19, MWK19]. **NicheLim** [HKVD16]. **niches** [MDB19]. **Niger** [AH17]. **night** [BFJZ+11]. **night-herons** [BFJZ+11]. **nighttime** [WLC+19]. **nine** [OLC+17]. **nine-banded** [OLC+17]. **nitrate** [BA14a, HGPF15, MCH15, VRL14, YDD+13]. **nitrification** [LNB17]. **nitrite** [BH17]. **Nitrogen** [Gra14, SCH+17, WEJ11, BKN14, BRKP16, CS18, DZW+11, Fel12, GZS+18, GBG+15, mGZK+10, GGVB11, GHS+10, GS10, GRD+14, GBR13b, HB14, Hoa11, HSM+12, HBA16a, HBA16b, HAA+21, JWX18, KH11, KJMA11, KPS19, LYJ+15, LHB+18, LDC+16, LBC+15, MRG13a, MTL+10, MKSL+17, MJC+11, NBK+11, NW18, PP16, PMB+17, PBP+15, SKMB11, SYL+13, SEHD18, SSF14, TGM+21, TBA19, TRE+12, VRL14, WPB14, YDD+13, ZTJ+10, ZLFZ16, ZLZ17c]. **nitrogen-to-carbon** [CS18]. **Nitrous** [HJS+16, GNB+14, LYJ+15]. **nitzschia** [GDDFT16]. **NME** [BPC+17]. **No** [PAB+13b, Bus17, LYJ+15]. **Noctuidae** [FGH+10]. **nocturnal** [BLFS18]. **node** [HB14, Pat15]. **NOE** [GNB+14]. **Noise** [ZW12, LS13, NNST+14]. **Non** [GdTCFG10, LJAD17, Ned15, VRL14, ACKS13, AK17, AL16, BLY11, BM16,

BGC10, BPK+16, CCCP17, CBC+16, CCC12, CPS15, DH18, GLSA+11, JTB+19, KWH14, KCKdOW12, LPT+18, MH13, MPP+15, MHRB19, PTL14, RWS+16, RSP+17, RHS+16, RDR+17, RE10, SJTS13, TLP17, TGB+17, WC19, XCG+16, YDZ+21, ZH11, ZYKS15, dS18]. **non-adaptive** [LPT+18]. **non-additivity** [WC19]. **non-autonomous** [SJTS13]. **non-buoyant** [BM16]. **non-cooperative** [TLP17]. **non-domesticated** [GLSA+11]. **Non-equilibrium** [LJAD17]. **non-focal** [BPK+16]. **non-hierarchical** [RE10]. **non-influential** [CCC12]. **non-invasive** [MPP+15]. **non-isolated** [dS18]. **non-Kolmogorovian** [ACKS13]. **non-limiting** [AL16, TGB+17]. **Non-linear** [GdTCFG10, VRL14, AK17, CCCP17, DH18]. **non-monotonicity** [ZYKS15]. **non-native** [BGC10, CPS15, PTL14, XCG+16]. **non-neutral** [KWH14]. **non-point** [YDZ+21, ZH11]. **non-scientist** [CBC+16]. **non-spatial** [RWS+16]. **non-stationary** [RHS+16, RDR+17]. **non-stratified** [JTB+19]. **non-symmetric** [dS18]. **non-target** [MHRB19, RSP+17]. **non-timber** [KCKdOW12]. **Non-traditional** [Ned15]. **non-uniform** [MH13]. **nonexistent** [Ula14]. **Nonlinear** [YYL13, EGA12, Fis21, Mon13, PBT+11, PBD19, TŠAD12]. **nonparametric** [SML12]. **nonpoint** [GPD+13, NKSA13, SRXP14]. **nonrandom** [LLL19]. **norms** [CLA+12]. **North** [BH13a, CW11, CR12b, GSJ+10, GCL+19, LAB+10, MSCH14a, PVM13, SW19, TTL+18, ZLLZ13, MMGK15, QCLW18, RR10, SHM+17, ZDG+13, BH13b, BB18, CAL13, CWA+15, CR11, DUASLB+12, DYU+12, DSW+17, GCvDM12, GCM+13, HKlL14, HBA16b, HPW+12, JBB+11, LN11, LN16, LAR+16, LAD11, LCY+13, MML+11, MRD+12, MSCH14b, PVM12, PGZ+19, QDH+10, RMHE15, SELB10, SBC+11, SDY+15, SGH16, SKM+16, TCW11, Tho10a, WYHC15, YLY+18]. **Northeast** [FLH17, GC11, MSM+16, NGL13, SLZ+18, TZS+14]. **northeastern** [DLL18, PGV10, Gli14, JSB+14, SCG+16]. **Northern** [FRM+19, KCF18, MWML13b, NGGFM19, XWW+11, XQZ+13, ATCJ+19, BHD16, BLLJ17, BCO17, CL15b, CQS15, CR11, CR12b, FGH+10, HKM+18, JR16, JA15b, KHW+16, KGYG15, LLC+17, LMGW16, MRD+12, MWML13a, MP17, MMVAHMC16, PDAL14, ROSC15, SLW17, TDF+19, VAK+11, WGL+12, WLH+10, ZKSF17, dMSL+16, CL12b, GYL+15, HT16, KBS+15, KCF17, LDP14, MPKC12, MTPC13, MM19, RBGB16, WMW+12]. **Northwest** [JJYM19, WZG15, CW11, GQNMR18, PGGMMA19, SBF15, WHRR15, ZLW+15]. **northwestern** [GdTCFG10]. **norvegica** [JR16]. **Norway** [CAMNN16, mGZK+10, HOKH18, OJ10, TNA+17]. **Norwegian** [BSH17, SDKE18]. **nose** [CESC19, RTE+15]. **Note** [Ano19-49, PdM11, Ano10-27, Ano12-38, Pér18]. **Notes** [Fat10, PF18]. **NOTG** [SMH16]. **Novel** [MTGD17, ZLY16, BHD16, DBSA16, DFW+18, KHW+16, LMT13, RSCS19, WR13a, WLR+11, dBGS+14]. **November** [Ano10t, Ano10u, Ano12-37, Ano13x, Ano14i, Ano14l, Ano15g, Ano16l, Ano16k, Ano17-32, Ano17v, Ano18-31, Ano18-28, Ano19b, Ano19f, Ano21c]. **NPP** [SLSS15]. **NPZ** [TBM+14]. **NPZD** [HS13c, HS13b, PMTKC17]. **NSF**

[Bec10]. **nucifera** [MdMS+19]. **Nuclear** [GSF+16]. **nuisance** [IN16]. **Null** [MSV+11, FM11, GU11, UG12]. **number** [CWL+16, GCW+16, Ken19, Log16, NMS10, OLC+17, PDG+14, SM12, WGSR19]. **Numerical** [BKN14, DFL+16, IKK+12, LZW+17, yLWhMhG11, PLS+10, TLW+14, FS14a, FRM+19, GJÁ+10, GL10, GS19a, GC14, GBR13b, LZYH19, MH13, PES19, SFMA15, Sin17, XSN+18, ZLFI11, ZYZ17]. **nursery** [BJK+16, FB13, FPG11, FPWG14, OAPP12, SGBG19]. **nursery-pollinator** [SGBG19]. **nutcrackers** [MSM+17]. **Nutrient** [JD10, WFM16, AD12, AL16, BGPJ10, CGM+14, HKVR13, HSM+12, HOŠ+12, KWS+13, KW18, Kei12, KZR+13, LCY+13, LLZ+15, LWC+18, LW14, LLFL12, LVV+15, MMM+16, Mul11, NPH+17, PFA+16, RPSA12, REB+16, RP11, SQWS19, TBM+14, WMK+13, XYY+16, ZLFI11, ZWW+18, ZML+12]. **nutrient-cycling** [CGM+14]. **nutrient-runoff** [KW18]. **nutrients** [DBVS19, DMZ+19, ER10, FS14a, LLZ+15, LQW+19, Lin15b, MR17, Pea15, YZG16]. **nutrients-algae** [YZG16]. **nutrients-phytoplankton** [LQW+19]. **nutrition** [GBP+16, YZA+18]. **nutritional** [AHS14, WSE10]. **NW** [MJB+11a, BDV+19, CSS+16, DBVS19, FAC+19b, GDDFT16, PPB+18]. **Nyctaginaceae** [RXSK14].

O [HMS+11, KMM+13, LKLK15, LYJ+15, LSM19]. **O157** [SFvB10]. **oak** [ABC+17, KSS11, LL18a]. **oak-hickory** [LL18a]. **oasis** [SYY+19]. **OBEC** [RDD+18]. **OBIS** [CMV+16]. **Object** [wTA12, BFR17, KK13, SH18, ZPNM13]. **object-based** [ZPNM13]. **Object-oriented** [wTA12, BFR17, KK13]. **objective** [CRB16, CN11, DSA+18, EBA+19, GOSH+12, HPO+15, NNP19, Tat16a, TA11, Wil12, WK17, WKH19, Yan11, ZZJ+16]. **obligate** [CN18]. **observation** [AGJ+12, LH15, PP10, ZKSF17]. **observational** [CGG+18, HJ10b]. **Observations** [UKI+11, CBA16, LS18, MPT+11, PSB+17, SHS11, WBC+12, WP14]. **Observatory** [SEHD18]. **observed** [GLT10, TL10]. **observer** [WB10]. **obstacles** [RRBI14]. **obstruct** [VVA+15]. **obtained** [VHM+17]. **obtusa** [Oga11]. **occasion** [GB16b]. **occupancy** [Hui11, LCMG18]. **occupation** [YMCV21]. **occur** [HKM+18]. **Occurrence** [dSGGBW12, ADF+17, CPR10, CWJ+13, DYMYGO19a, DYMYGO19b, DSW+17, FM10, FM11, JDZC14, JSCS19, MMGK15, YAGMM+14]. **occurrences** [BGA17, SAKB+10]. **occurring** [OGOWW16]. **ocean** [ABR12b, ABR12c, BSH17, DVD+14, FLH17, HKM+18, KTK+15, PGV10, PPDF14, RWP11, THC18, BSH+10, DFM12a, DFM12b, FE14b, GQNMR18, GC11, HKlL14, PMTKC17, RMTM+16, WFA10, WHRR15, WCG+11]. **oceanic** [Flo18, WGD+17, ZJL+14]. **October** [Ano10r, Ano10s, Ano11-33, Ano12-32, Ano13-27, Ano13z, Ano14g, Ano15p, Ano15h, Ano16n, Ano16j, Ano17-31, Ano17t, Ano18-30, Ano18z, Ano19c, Ano19g, Ano21c, LMY+11, LYP+11, LPA+11]. **ODD** [GBD+10]. **Odocoileus** [WTG+16]. **Odontesthes** [BCC+14]. **Odum**

[GDC+19, JZCL14, LTL15, Ten15b, Til14]. **OECD** [Hoa11]. **off** [BLFS18, BBL11a, CRQW18, DZW+11, DP19, GJB+11, NCK10, RHD+13, ZFZ+14]. **off-shore** [BLFS18]. **offs** [BLD10b, GK14, HV15, LARZN13, LCPB+10, MWML13b, SDT10, dMLM+17]. **offset** [WKZ+19]. **offsets** [Bus17, TBJ+15]. **offshore** [DMB+18, RPC+17, SS11]. **Ohio** [MR17]. **oil** [BPU11, GPA+13, KWGG19, MH11]. **Oilseed** [GDT+14]. **Ojo** [RIMPBT19]. **Okavango** [LMCA+12]. **Okeechobee** [Jam16]. **old** [AMR16, BR16]. **old-growth** [AMR16]. **oleae** [GCTS15]. **Oléron** [PLR+13]. **oligohaline** [CN10a]. **oligotrophic** [CT11, HPRNP12, HMA10b, JA15b, SPM+18, VJR+16]. **olive** [GCTS15, MCBM12]. **OLS** [WLC+19]. **ombrotrophic** [WRM+11]. **Oncorhynchus** [KGM12, MSB+17]. **one** [BKB10, FRM+19, HQF+17, KCKdOW12, MPF+14, OOFVBC16, PDAL14, PBK14, SP10, WPG15, WB14]. **one-** [HQF+17]. **one-dimensional** [BKB10, FRM+19, PDAL14, PBK14, WPG15]. **Oneida** [HSR+15]. **ones** [NYH15, ZJB19]. **ongoing** [CVM+18]. **Only** [EPM+14, FN15, GdSHA10, YHW+12]. **onset** [KKL+12]. **Ontario** [KZR+13, ZKR+13, SP10, SS11]. **Ontic** [NU11]. **ontogenetic** [SMS+13, SIS+14, SFR+17]. **ontogeny** [TCSG15]. **Open** [GLS10a, BAP18, BK13, CBB19, DLH+14, LST15, MSGG14, MH13, MLMFN+15, SRP18, SFL+19]. **Open-** [GLS10a]. **open-source** [MLMFN+15]. **Opening** [THO10b]. **openness** [NU11]. **operating** [YY13]. **operation** [CCL+13, DFW+18, WhFxGZ16, YY11]. **operational** [IGR+18]. **operationalisation** [CGL15]. **Operationalizing** [KK15a]. **operations** [BWRA16, TSN15]. **operators** [BO14]. **opimus** [RMP+18]. **opinion** [Ano17a, Cha12, TB11, TB12a]. **opportunist** [DNFG18, MLK17]. **opportunistic** [CGAB17]. **Optical** [GANB11]. **Optimal** [BBRJ15, BJJ12, BMP+19, CMD12, dSCdA19, CRVS13, DML15, KOBK13, NSN17, PR13, TKP14, BFPR16, BM10, CHTC11, ETG+18, GS19a, HFMM+12, LDB14, MAFG+19, MOMC17, PP10, PRP17, RKL+15, SRXP14, SA13, War10, ZFZ+14, vDHH+14]. **Optimality** [CS18]. **Optimality-based** [CS18]. **optimally** [RP10]. **optimisation** [CN11, EBA+19]. **optimising** [RSDP+12]. **Optimization** [HCL+14, JBCÑ11, MCWG21, AK17, BHD16, BSC+15a, CZR+14, DAW+10, FDM+11, GOSH+12, HCK18, LOLA13, LHR+15, NNP19, OFH+19, PHP+14, TŠAD12, Tat16a, TLZ17, TA11, VQS+18, WSW+13, WK17, WKH19, Yan11, YYQ11, YZL12, YTT+11, ZZJ+16, ZF11]. **optimize** [GCIB10, LBM16]. **optimized** [CGY11, GDW12, MEC14, dWcWbZ15]. **Optimizing** [HBR19, MdMS+19, XLR11, YRGH16, AD16, HG17, NMS10]. **Options** [LSM19, AHM+16b, ABC+17, FSM+19a, FtHvdB+14, For11, GH13, GMP13, KBMM15, NNP19, PMS+17, RvS16]. **Opuntia** [MRN12]. **oral** [LPA+11]. **Orbetello** [GMLRF10]. **orchard** [KL10, TWL11]. **orchards** [GCTS15]. **Order** [dSCdA19, JA15a, Nie16, WHC+13, ZCY+19]. **Ore** [GB15]. **Oregon** [MSB+17, RWP11]. **Organic**

[PLFO+12, BP15, BP16, BP17, BP19, BKMK10, BBH+11, CKS+17, CSS+17, GE17, HSK17, HN14, HJS+16, JNC+11, KH11, KCB+17, LLT+17, LKP13, MLB+16, MDF+18, MJF19, Nei11, OSS13, OLG+13, RDD+18, SJS+13, SDD+13, SBRD10, SCG+16, TDC+11, WSL17, WHC+13, ZJM+13, ZJL+14]. **organisation** [CTC+18, SLZ+13]. **organising** [DGKSM13, PLB16]. **organism** [Pat16a, WBHM11]. **organisms** [DCMK11, GPP+19, JLN10, Jør15a, Jør15b, MC11, Mul11, RKS+10]. **organization** [GDC+19, LCZ11, MJB+11b, PSS16]. **organized** [DBH+17, LMY+11, LYP+11]. **Organizing** [Jør14a, LLC11, PGKG12, RPPW16, SSM+13]. **organogenesis** [BDL+13]. **orientale** [GCC+10]. **oriented** [AAFH15, BFR17, BFS11, CRA+11, CAMNN16, GPCG15, JGF14, JCKG15, KK13, MJL+13, MJL+14, RJ11, SHT+21, SMH+12, wTA12, THOA10]. **origin** [HMS+10, XCG+16]. **Origins** [ER10, HHC15]. **oriii** [Ano14v, Ano14w, Ano14x, Ano14y, Ano14z, Ano14-27, Ano14-28, Ano14-29, Ano14-30, Ano14-31, Ano14-32, Ano14-33, Ano14-34, Ano14-35, Ano14-36, Ano14-37, Ano14-38, Ano14-39, Ano15r, Ano15s, Ano15t, Ano15u, Ano15v, Ano15w, Ano15x, Ano15y, Ano15z, Ano15-27, Ano15-28, Ano15-29, Ano15-30, Ano15-31, Ano15-32, Ano15-33, Ano15-34, Ano16-29, Ano16-30, Ano16-31, Ano16-32, Ano16-33, Ano16-34, Ano16-35, Ano16-36, Ano16-37, Ano16-38, Ano16-39, Ano16-40, Ano16-41, Ano16-42, Ano16-43]. **oryzae** [YWA+17]. **oscillating** [RDD+17]. **oscillations** [FS14b, RH17]. **oscillatory** [PF12]. **OSMOSE** [GHS+16b]. **osmotic** [BCB+11]. **ostertagi** [CC10, CCSF11, CCF13a]. **Ostertagia** [CC10, CCSF11, CCF13a]. **ostralegus** [SGA+16]. **other** [DLL+19, DVF+19, MR17, PMH17]. **otoliths** [KHW+16]. **otter** [TSN17, TAC+14, VPC+14]. **our** [Ano17a, FHAG12, RDH+13, WB16]. **out-crossing** [DTS+12]. **outbreak** [CCL14, PSBH16]. **outbreaks** [FH11, OFGH+19, RPA12, WFS+19]. **outbursts** [JSKK15]. **outcome** [MF12]. **outcomes** [MPR13, VPB+12, ZAW+18]. **outflow** [GBW+15]. **outflows** [GSF+16]. **outline** [LTL+19]. **outlook** [JBH+14]. **Output** [SCH+17, BB10, BCP16, BFS11, CC11, Cho13, HCM+15, KPS17, LHL18, Ske13, XYTS19, ZQC15]. **outputs** [YDD+13]. **Outside-host** [MLK17]. **outwelling** [DVD+14]. **ovata** [AALP18]. **over-harvested** [IKL14]. **Over-reporting** [GU11, FM10]. **overabundant** [WR13b]. **overall** [KL12]. **Overcoming** [BMSLC16, HVL+19]. **overestimate** [Log19b]. **overestimated** [dSCdA19]. **overexploitation** [PBEL17]. **overfishing** [ACE+17, BPB14]. **overfitting** [MSV+11, VHM+17]. **overhead** [SSQ+10]. **overlap** [mLcLJ15, mLcLJ16]. **overlap-based** [mLcLJ15, mLcLJ16]. **Overlooking** [KGS11, PC16]. **overstory** [XKI+11]. **overview** [CVG+15, DPV+16, EEFE+11, GRRU15]. **overwhelm** [PW10b]. **overwintering** [BKN21, HVCP16]. **overyielding** [FDHL17]. **owing** [GAG+12]. **owl** [dÁGP14, EGMW12]. **owls** [TPG14]. **oxbow** [AdMC+13]. **oxic** [GS10]. **oxidation** [VRC17]. **Oxide** [HJS+16, GNB+14, LYJ+15]. **Oxygen**

[SPM+18, TM14, ASL13, BA14a, BMR+18, CGdCCPCPM14, GS10, MH13, MGW+13, NFU19, OdlFDP15, RRR+10, VMSM10]. **Oxythermal** [JFS+12]. **oyster** [BGD+15, EH15, EH19, KTGH19, KPLS15, LLC+17, WCL+17]. **oystercatchers** [SGA+16]. **Ozarks** [SHX+12].

P [Och10, Wei19, AR11, JS12, LWGH13, WB14]. **Pacific** [GC11, HKlL14, PVM13, CF17, FE14b, FAC+19a, HlLB12, KSAS12, MGCL17, OCB+13, OBC+21, PVM12, PME+16, ROSC15, SBF15, WFA10, ZLD+19]. **packs** [CWL+16]. **paddies** [COPP13]. **paddy** [BKN14, SNS+12]. **Padilla** [KR10a]. **Page** [Ano13-41, Ano14v, Ano14w, Ano14x, Ano14y, Ano14z, Ano14-27, Ano14-28, Ano14-29, Ano14-30, Ano14-31, Ano14-32, Ano14-33, Ano14-34, Ano14-35, Ano14-36, Ano14-37, Ano14-38, Ano14-39, Ano15r, Ano15s, Ano15t, Ano15u, Ano15v, Ano15w, Ano15x, Ano15y, Ano15z, Ano15-27, Ano15-28, Ano15-29, Ano15-30, Ano15-31, Ano15-32, Ano15-33, Ano15-34, Ano16v, Ano16w, Ano16x, Ano16y, Ano16z, Ano16-27, Ano16-28, Ano16-29, Ano16-30, Ano16-31, Ano16-32, Ano16-33, Ano16-34, Ano16-35, Ano16-36, Ano16-37, Ano16-38, Ano16-39, Ano16-40, Ano16-41, Ano16-42, Ano16-43, Ano17m, Ano17n, Ano17o, Ano17p, Ano17q, Ano17e, Ano17f, Ano17g, Ano17h, Ano17i, Ano17j, Ano17k, Ano17l, Ano17-41, Ano17-42, Ano17-43, Ano17-44, Ano17-45, Ano17-46, Ano17-47, Ano17-48, Ano17-49, Ano17-50, Ano17-51, Ano18x, Ano21d]. **Page/Cover** [Ano17m, Ano17n, Ano17o, Ano17p, Ano17q]. **Pages** [Ano12-37, Ano12-28, Ano12-29, Ano12-30, Ano12-36, Ano12y, Ano12-33, Ano12-34, Ano12v, Ano12z, Ano12x, Ano12-31, Ano12u, Ano12-32, Ano12-35, Ano12-27, Ano13-39, Ano13-38, Ano13-32, Ano13-36, Ano13-33, Ano13-31, Ano13-29, Ano13y, Ano13-34, Ano13-35, Ano13-40, Ano13w, Ano13-37, Ano13v, Ano13x, Ano13-27, Ano13z, Ano13-30, Ano13-28, Ano14u, Ano14e, Ano14c, Ano14r, Ano14o, Ano14f, Ano14j, Ano14s, Ano14k, Ano14m, Ano14p, Ano14q, Ano14n, Ano14b, Ano14t, Ano14d, Ano14i, Ano14l, Ano14g, Ano14h, Ano15q, Ano15p, Ano15a, Ano15j, Ano15b, Ano15d, Ano15l, Ano15m, Ano15k, Ano15f, Ano15e, Ano15c, Ano15n, Ano15g, Ano15h, Ano15o, Ano15i, Ano16t, Ano16a, Ano16u, Ano16q, Ano16m, Ano16e, Ano16h, Ano16o, Ano16d, Ano16r, Ano16b, Ano16f, Ano16p, Ano16c, Ano16i, Ano16l]. **Pages** [Ano16k, Ano16n, Ano16j, Ano16g, Ano16s, Ano17-38, Ano17r, Ano17-35, Ano17-36, Ano17x, Ano17-37, Ano17-29, Ano17s, Ano17z, Ano17-40, Ano17-30, Ano17u, Ano17-28, Ano17-39, Ano17w, Ano17y, Ano17-27, Ano17-32, Ano17v, Ano17-31, Ano17t, Ano17-34, Ano17-33, Ano18-41, Ano18-38, Ano18-46, Ano18-47, Ano18-34, Ano18-48, Ano18y, Ano18-40, Ano18-42, Ano18-33, Ano18-39, Ano18-37, Ano18-44, Ano18-35, Ano18-27, Ano18-43, Ano18-36, Ano18-45, Ano18-31, Ano18-28, Ano18-30, Ano18z, Ano18-29, Ano18-32, Ano19-36, Ano19-47, Ano19-33, Ano19-37, Ano19-39, Ano19-45, Ano19-42, Ano19-40, Ano19-38, Ano19-34, Ano19-46, Ano19-35, Ano19-41, Ano19-48, Ano19-44, Ano19-43, Ano21b, Ano10g, Ano10o, Ano10p, Ano10v, Ano10w, Ano10x, Ano10i, Ano10k, Ano10l, Ano10m, Ano10n,

Ano10y, Ano10z, Ano10h, Ano10j, Ano10t, Ano10u, Ano10r, Ano10s]. **Pages** [Ano10q, Ano11v, Ano11w, Ano11-30, Ano11-35, Ano11-34, Ano11-36, Ano11s, Ano11z, Ano11-27, Ano11-28, Ano11-29, Ano11t, Ano11u, Ano11x, Ano11y, Ano11-33, Ano11-31, Ano11-32, Ano12w, Ano21c]. **Pahang** [LHL+17]. **PAHs** [XQZ+13, ZCSL18]. **pairs** [MPF+14]. **paleobotanical** [MAMNL+15]. **pallid** [DHC16, WAGM17]. **palm** [SFL+19]. **Palma** [MGGLBIBD13]. **palumbus** [OFK+12]. **palustris** [LCML11]. **Pamlico** [JMB+11]. **Pampas** [BPR+11, BRM+14]. **panacea** [DSBM+18]. **panda** [FLX+14, LLL+10, YL17]. **pandas** [GFW+17, LCS11]. **Pantanal** [AdMC+13]. **Panulirus** [LMBL12]. **Paper** [RE10, Jør14a, NSIiT17, Bec10]. **Paperback** [Jør14b]. **papers** [BS15, BNP10, LYP+11, LPA+11]. **Pará** [DBK+13]. **Paraconsistent** [BPT+19]. **paradigm** [CL15a]. **paradox** [ALL11, F.11, HKW+18, KK16, Loe12, WTWS19]. **Parallel** [TB11, TB12a]. **paralytic** [GBB+11]. **Paramecium** [Ned15]. **Parameter** [BLLJ17, DFM12b, JLZ+18, MMC11, TŠAD12, WC13b, Ash10, BA14a, BWA17, ČTT+12, CZR+14, CTMS10, DVT+10, FHL+13, GBP+10, GLC+15, HGPF15, HS13b, HGLZ13, KB10, LBM16, LHR+15, MGSB11, QCLW18, QFG+13, RMTM+16, SLLW15, Wol11, YLL+12]. **parameter-sparse** [GBP+10]. **Parameterisation** [COBF13, CHPS17, CKS+17, CSS+17]. **parameterised** [SBM+11]. **Parameterising** [CN10b]. **Parameterization** [GGVB11, BdCS11, GTC16, JGF14, KKL+12, NMA+19, PMBM11, PP12, SCG+16, WBS13, BDV+19, SMG+12]. **parameterizations** [GGR+13, THC18]. **parameterize** [SHT+21]. **parameterized** [ADF13]. **parameters** [BLBB13, BRPK14, CCCP17, CDK+17, CCC12, CDL+11, For18b, GDC11, GCCB18, GPD+13, HSK17, HCL+14, HG17, JBB+11, JFS+12, LDG14, LB17, LXS+16, MSO10, MRTW18, Ned15, OKS+11, PBP+15, PSSH11, RKL+15, RCCN11, TQZ12, VG19, YCL+14, ZBS14]. **parametric** [ST13, ZBMC14]. **Parametrization** [BDL+14]. **parametrizations** [KWH14]. **parametrize** [GANB11]. **parametrized** [CC10, CCSF11]. **paramo** [AYASR+17]. **Paraná** [RCCN11]. **parasite** [SU15, WGT12]. **parasites** [BGG+16b, LJB12, LLFL12, RWvDM15, TV15, TNTH11]. **Parasitic** [CCF13a, SFHK12]. **parasitoid** [AD16, ASS14, BLAV18, CH12, CHZ18, DPvBvA11]. **parasitoids** [RAdA12, SFHK12, SGBG19, RCGC17]. **parental** [CWM12]. **Pareto** [LZB17]. **Pareto-efficient** [LZB17]. **Paria** [RDR+13]. **Park** [CBGK15, KPT11, MNHW+13, DLD+11, ZZF15, BFKS16, LDM15a, ZPZ+15]. **parkinsoni** [ZDL+17]. **Parks** [MAM+10]. **parsimonious** [RPGSCF16, War10]. **parsing** [UM18]. **Part** [FPWG14, PSKO16, BLD+10a, BlMG+11, DFM12a, DFM12b, FPG11, Pat14a, Pat16b]. **Partial** [CEWW18, IBD+19, ACSR+13, BHC+15, TVF+10]. **participatory** [EBA+19, KHHN17]. **Particle** [CC14, BBGJ13, BPK+16, LOLA13]. **particulate** [CGG+18, RPC+17, YCF15]. **partition** [Pie10b]. **Partitioning** [TGM+21, ACE+13, DGKSM13, LLQN13, WBB+21, XKI+11]. **partners**

[CWM12]. **partridge** [THOA10]. **parts** [GS10]. **parvum** [GRB12]. **pass** [FBA+11]. **Passage** [BLH10, ZVS18]. **Passeriformes** [LIM+16]. **Past** [ENC+15, BUB+12, CS17, GAP+19, HPC13a]. **Past-century** [ENC+15]. **pastoral** [MGW+21, QCLW18]. **pastoralists** [MHY+15]. **Pasture** [BLBB13, CCSF11, CL15b, HMA10a, PGR+16, PBG+17, dJGM+18]. **pasture-woodlands** [PBG+17]. **pastures** [DYU+12, PKT15]. **Patagonia** [GLT10, GdTCFG10, MTPC13, MMGK15]. **Patagonian** [MCMT+16, RMR+16]. **Patch** [RAdA12, XSL18, ALKB10, BS10a, DMDJ13, DSBS15, LDM15a, ZWG+13]. **patches** [BS10a, DFK+11, GCK+15, Pec12, RBRK16, RH15, SXNL18, ZW11, dS18]. **patchwork** [IBD+19]. **patchy** [BCI+17, GCvDM12, JDZC14, OE12]. **path** [FSN+15, LSR16, LLL+10]. **pathogen** [HTVE18, JX15, MBLC14, RAF17, WBW14]. **pathogens** [CLLB12, MKH+17, MC11, Mur13, TCGC16, WGD+17]. **paths** [CK12, LT15]. **Pathway** [DPV+16, MK13]. **pathway-based** [MK13]. **pathways** [HBP18, Jag14, MSM+16, POS+19, SBA+19, Vav10]. **Pattern** [JGF14, Mer12, RJ11, WZWL10, AAFH15, CWLC13, CAMNN16, CGdCCPCPM14, GGSP14, GPCG15, HS13a, HSM+12, Hui11, JX15, JCKG15, LPF11, LCS11, MPKC12, MJL+13, MJL+14, PAGCV+10, PKD11, PLS11, SZSV12a, SHBG10, SMH+12, TJYZ11, THOA10, UM18, VAO+17, WYY+19, XZSL17, YZC14]. **Pattern-formation** [Mer12]. **pattern-guided** [HS13a]. **Pattern-oriented** [JGF14, RJ11, AAFH15, CAMNN16, GPCG15, JCKG15, MJL+13, MJL+14, SMH+12, THOA10]. **patterning** [ZNS+18]. **patterns** [ABB+10, BEZ19, Ban11, BA14b, BGG+16b, BFKS16, Che15b, CLT+11, Con11, Con12, CKMD14, DBK+13, DS21, DHL+12, FM10, Flo18, GM10, GGZ+16, GLT10, GMS11, GBR+13a, GLS10b, GKKW10, HCM+18, HWL17, KMRW16, KSI14, LMR16, LZLC13, LLM+13, LJ15c, LLQ+15, LPV11, LL18a, LBdA+19, LAC10, MBG17, MBG+10, NP15, OQH+13, PR11, PBEL17, PvVC15, PB14, RHO11, Rin14, RCBPMN10, RR10, SSM+13, UR10, VH12, WCL+17, War10, WHNR19, XTLM15, YYL13, YSA+14]. **payments** [CLA+12]. **PCBs** [SHS+12, TPL+15]. **PCLake** [JSL+10, JTB+19]. **PDE** [EGA12]. **PDP** [FCFT16]. **pea** [AWL+13]. **peach** [GHS+10, GOSH+12, KL10]. **Pearl** [WLDL12, WDL+15, XCL+11]. **Peat** [ZNS+18, HV12]. **peatland** [QFG+13, RML+15, Vav12]. **peatlands** [DBG14b, DBG14a, GWK+12, GKW+13]. **Pecten** [MG18, MHG18]. **pelagic** [CRUF13, FE14b, HPRNP12, KSAS12, LJ13, Löp11, PSWW11, RPP+15, WMCM12, WFN+16]. **Penaeus** [KSZW16]. **penalised** [GGV11]. **Penguin** [BPR+15, WSS+16, ACE+17, CWM12, WCS+14, WSW+16]. **penguins** [PLS+16]. **Peninsula** [RDR+13, AR11, ABC+17, BGA17, KTV+15, KPK+17, ROSC15]. **Pennsylvania** [FWRZ10, Fel12]. **pennsylvanica** [KKR19]. **people** [Abe10, SvBH+14, VLZ+19]. **Peponapis** [GLSA+11]. **per-capita** [CTC+18]. **Perception** [BPM+15, WALCY12, ADF13, LGMLD19]. **Perception-based**

[BPM+15]. **perceptions** [AADA14]. **perceptron** [Fis21, MMMCAHM21]. **perceptual** [GPZB18]. **perch** [DGKSM13]. **perennial** [DAW+10, HCW+17, HGN+16, JBB+12, PLL+19, SV13]. **Performance** [OBLJ13, SvWP+15, SP12, WBB+21, ABAG15, ABAG16, BSFR17, BOGA14, DKJH13, FAPM12, FCA18, GGV13, GdSHA10, HFU11, KFWM19, LM12, Mar12, MWK19, MROGVR12, MDG10, MDV+12, NL12, NMA+19, PJ15, RWVK11, RGH+13, SC21, SBM+12, SMI+19, SDEP18, SPB+17, TZS+14, TBM+14, UAB+11, WR13a, WRB+12, YHW+12]. **performances** [SXZ+15]. **performing** [JMB+11]. **peri** [CLHH19, KJVL+17]. **peri-alpine** [KJVL+17]. **peri-urbanization** [CLHH19]. **perilous** [WSS+16]. **period** [GZK+11, HVL+19, NMC+14, SSY14]. **periods** [JFS+12, RBM+17]. **periphyton** [FBL+10, KW18, LSL10]. **Peromyscus** [BB18]. **perpendicularity** [ALKB10]. **Pers** [ESA12]. **persicae** [GOSH+12]. **persistence** [BNL+13, Bev15, BSS+14, BGG+16b, BRF+11, CHNdÁP18, DFH+14, GFW+17, HWE+18, Joh10, MJK+17, MLMH18, RCSS13, Rin18, SZNL19, SNZ+19, TBA19, YZ18]. **Persistent** [KFDL+19]. **personal** [SM11]. **Perspective** [BFW14, LYC+15b, ANMJ12, BGGL16, BU11b, CW17, CBR+16, CAMCK+12, FKWZ19, Flo14, Gre12, HF14, Ji15, Ju19, LB11, MWY+18, NYIH17, Pat12, PFR15, TAR13, UAB+11, VKdW+10, Wal17, XHC+15, XZCL16, YHZ19]. **Perspectives** [WHB+16, CCF13b, LST15, vGKB10]. **perturbations** [BRB14, MSFR15]. **Peruvian** [JBCÑ11, MRN12, XCR+13]. **pest** [ATCJ+19, AD16, BNC+18, BPM+15, BCD12, GBB13, GPM16b, HL19, KLGL19, LZB17, PDV17, PvVC15, RJ11, RPPW16, SRM11, SMBGH+19, TV15, WFS+19]. **pest-parasitoid** [AD16]. **pesticide** [BVGR+17, BWA17, ECO+14, IPSH14, KDHC+18, LSGT13, LBS+14, MHRB19, QCB+11]. **Pesticides** [KEHG17, FtHvdB+14, JHT+14]. **pests** [KLGL19, LCAJGFNS14, MKH+17, WGE+19]. **pests'an** [DPV+16]. **pet** [BGA17, PTA+12]. **petrels** [ATCJ+19, ZDL+17]. **PG** [FT16, GS19c]. **pH** [CTNH13, HKM+18, NP15, SG11a]. **phase** [AB10, MJB+11a, TCSG15]. **phase-state** [AB10]. **Phenacoccus** [FTK+14]. **Phengaris** [CWJ+13]. **phenological** [CJM+12, DBR12, KKK+19, PSG19]. **Phenology** [PB14, AGB+13, BRR10, CMM+10, CSS+19, DZS12, DJMBD+13, FAG10, FTK+14, GLR+19, GCR18, LSS+15, LBC14, MBD+12, MMK15, OFH+19, OBLJ13, RWH+14, RPGA15, SW19, VFFP16, YHJ+17]. **phenomena** [ZBMC14]. **phenomes** [GHD+19]. **PhenoPine** [KKK+19]. **phenotypic** [CMD12, JBE+15, KCLL14, MCRB17]. **pheromone** [GKKW10]. **Philadelphia** [BLOJ+19]. **philippinarum** [VZF+11]. **Philippines** [BWRA16, GL10, LSH15]. **Philornis** [LIM+16]. **philoxeroides** [MSKS13]. **Phloem** [SH14]. **Phoenix** [TOQW11]. **phosphatase** [LBE+18]. **phosphorus** [BGPJ10, CT11, DZW+11, DJA+10, GZS+18, HZT+13, HSM+12, HG17, JSL+10, JAH+10, JDGJ13, KD13, KB10, KJMA11, KZR+13, LRM+14, MGMR15, MM16, OGOWW16, TXM+10, WB17, WEJ11, XTPT11, YZA+18, YLW+11, ZKR+13, ZLG16, TXM+10, XTPT11].

phosphorus-enriched [TXM+10, XTPT11]. **photo** [LBE+17]. **photo-physiology** [LBE+17]. **Photo3** [HBP18]. **photoinhibition** [Mul11]. **photoperiod** [GLR+19]. **Photosynthesis** [CGdCCPCPM14, CPMP13, HSD+15, MDW+12, MB14, MEC14, SRV+12]. **photosynthesis-based** [HSD+15]. **photosynthesizing** [Mul11]. **photosynthetic** [HBP18, HCL+14, WB17]. **phototroph** [FD19]. **phototropic** [BLB+17]. **photovoltaic** [CRTS15]. **Phragmites** [WJL+13]. **phreatophytes** [LZS+17]. **phylogenetic** [ABB+14]. **Physical** [NvGZ+16, SCH+17, BTPG10, CIHL14, Els10, HPRNP12, KC18, KWGW19, MMCBP19, MvdWU+16, PCTW17, PCRP12, PCZ+16, RR12, RRH+19, TMT+18, VPM+18, ZLG16]. **physical-biogeochemical** [PCTW17]. **physical-biological** [MvdWU+16]. **physically** [LSL10, RBGB16]. **physicochemical** [HGBA+13]. **physics** [IFC14]. **Physiochemical** [HLLP+10]. **physiography** [CRAP13, MDH15]. **Physiological** [CBCB17, FP17, COBF13, COY+10, CIHL14, CDL+11, KWH14, LTL+13, PRHH13, PBP+15, TKW17, XKI+11]. **physiologically** [NMdR16, ZVS18]. **physiology** [BBL11b, FAT+15b, LBE+17, LLC+17, PAB13a]. **phytoclimatic** [GLA11]. **phytoflagellate** [PBK14]. **phytogeographic** [SP10]. **Phytophthora** [DLvGGNC16]. **Phytoplankton** [SA16, VCD+17, ABR12b, ABR12c, BRMW18, BEBA19, BSH+10, CS18, CTP+17, DCMS18, DBK+13, DWP13, DWP16, GEZ+13, GO15b, GC14, HJWG12, HHK19, HGLZ13, JA15a, JX17, LY16, LWGH13, LLZ+15, LWC+18, LQW+19, Lin15b, MBD+18, MCH15, MYHN17, MFS18, MHMRAHHS19, MMC11, MFI13, NvGZ+16, PCTW17, PCZ+16, ROC+13, SW19, TKW17, TVT12, TPO+18, TS11, TBM+14, VAK+11, WRMB18, SFM+18]. **phytoremediation** [WWYO18]. **phytosanitary** [HL19]. **Phytoseiidae** [dOMZ13]. **Picea** [JL18, KPT11, KMP14, SGG14]. **picta** [PL10a]. **pig** [WØ15]. **pigeons** [ZSS17]. **pike** [BVP+13, MMVAHMC16]. **pinaster** [VALC12]. **Pine** [GBB13, SRT16, ACDC17, BHD16, BA14b, CMT+11, CHK+12, FMS13, GVV+16, JAH+10, LBdA+19, LM19, Log19a, LCML11, MPKC12, MSM+17, MK12, NPJ+17, PB14, RHZ+18, UDP17, WJK11, **?**]. **pinea** [CMT+11, CPMP13, MPKC12]. **pink** [CAMNN16, CRQW18]. **pink-footed** [CAMNN16]. **pintail** [MRD+12]. **Pinus** [ASV19, CMT+11, CPMP13, KKK+19, LCML11, MPKC12, SGG14, THJ+12, UDP17, VALC12, ZXD+13]. **pinyon** [yHAB12]. **pioneer** [WB10]. **PIOT** [SCH+17]. **pipiens** [JSB+14]. **piping** [AWSS14, GKF+14]. **piscine** [ACE+17]. **piscivorous** [BR16]. **Pitangus** [LIM+16]. **pitcher** [LBN+18]. **pitcher-plant** [LBN+18]. **place** [BPWB14, LDS14, LCDJ+12]. **placed** [SBC+11]. **plague** [LBR16]. **Plain** [SDY+15, WYHC15, PSKO16, YLC13]. **Plains** [KBS+15, MR17, SVL12, HCS+10]. **planet** [FvBM+11]. **planipennis** [KKR19]. **planktivorous** [CW17]. **plankton** [BCB+11, Ban11, BM16, CN10b, DBVS19, ER10, GRB12, JXL+15, KJVL+17, KK15b, MCN16, PVM12, PVM13, RPSA12, RWP11, WB14, WTWS19, dAEPE16]. **planktonic** [KSAS12, RGU+15]. **planning**

[BDWP16, DFH+14, GBL+13, HCK18, LWNG13, LLL19, MWB+10, MJLC14, PBD+17, RPA+18, TAT+16b, WSC+19, YXD+18, ZMMHR10]. **plans** [DLL18]. **Plant** [FAMD+12, FMA+12, FKDG14, LZF+14, OE12, RCSS13, Agu11, AKLB19, ASV19, BDL+14, Bai18, BJK+16, BBHP13, BdCS11, BNGP19, BBL11b, CC12, CHvdW+10, CLW+19, Con14, CWJ+13, CDM13, CGM+14, DJH10, DPV+16, DJA+10, EGA12, FAG10, FDP+10, FKH+15, FTYI13, GWR11, GQRC+17, GGV13, GANB11, GVC10, GCW+16, dSGGBW12, GLRT16, GWF+18, qHLlZ+16, HLL+19, HW12, HGAT17, HBA16b, JBE+15, JX15, KSS11, LJAD17, LBN+18, LMDG14, LCY+13, LLQN13, LLH+13, LPD14, LJCG15, LB18a, MDW+12, MSG+13, MBW14, MLMFN+15, MTL+10, MSV12, MK14, MGSB11, MBA+19, NYIH17, NPJ+17, OT15, OFGH+19, PES19, PS13, PM16, RAM10, RJ17, RCC+11, RSCS19, RP11, SC21, San11, SFHK12, SMG+12, SRM11, SV13, TKP14, TRE+12, TBL+15, VMG+12, VAO+17, VLF+17, WP14, XYCZ11, XYCZ13, XYY+16, XSL18, YGL18, ZLLC13]. **plant-animal** [XSL18]. **plant-dominated** [XYCZ11, XYCZ13, XYY+16]. **plant-induced** [VAO+17]. **plant-mediated** [CWJ+13]. **plant-soil** [Agu11]. **plantation** [BPS+11, KMM+13, LPX+12, LYL+17, Oga11, WZD+14, **?**]. **plantations** [DSS11, MdMS+19]. **planted** [KMM+13]. **plants** [BWH13, BMCG12, CKMD14, DF13, FS14b, FSM19b, FTYI13, GPA+13, GANB11, GdC14, HLS+14, HWE+18, HWL17, IWW12, McC16, MLMH18, NYH15, OMH12, PLB16, POB18, PLHG14, RW17, SCHGM16, SFR+17, XYCZ13, YqWB+15, YSA+14]. **Plastic** [EKB18]. **Plasticity** [MSG+13, CBA12, CMD12, JBE+15, MCRB17, UDP17, YMCV21]. **Plateau** [FLY13, MPKC12, SCG+16, BCC+11, ZCSL18, CSS+19, CBO16, GYL+15, MLB+16, MCMT+16, SLZ+17, ZZLZ14]. **platform** [LBA14, LBA15, RBGB16]. **players** [TPL+15]. **plays** [LGMLD19, LBdA+19]. **plea** [Lin10, Lin16]. **Plecoglossus** [FSN+15, MSO10]. **Pleistocene** [Flo14, GLS10b]. **plexippus** [GPZB18]. **plot** [MBLC14, NPH+17, SHM+14]. **plots** [CTC+18, PGW19]. **plover** [GKF+14]. **Plovers** [CAMCK+12, AWSS14]. **plug** [DLCR13]. **plugin** [KRE+18]. **PMA'12** [FKDG14, Ano14-40]. **PnET** [dBGS+14]. **poaching** [KdVRdW17, RWS+15, RWS+16]. **pocket** [MRC19]. **podocarp** [MP17]. **podocarp-tawa** [MP17]. **point** [DPR10, DHL+12, GGSP14, GMS11, LQW+19, LL18a, MTL+10, PLS11, RCSS13, YDZ+21, ZH11]. **Poir.** [ESA12]. **poisoning** [KTK+15]. **polar** [JS12, LPSC16]. **polder** [EBL+11]. **polders** [HV12, HG17]. **policies** [CMCASS12, CRVS13, UFK+10, vDSC+10, vDHH+14]. **Policy** [UFK+10, BAA+14, CGY11, Fat12, HCS+10, Ju19, KG13, KUI+18, LDL12, RvS16, SHB11b, WLDL12, WYHC15]. **Polish** [LCBNP19]. **political** [SDSH15]. **Pollen** [GGM+12, BGK+16, HLLO13a, HLLO13b, MHTC15]. **Pollen-based** [GGM+12]. **pollinated** [TWL11]. **pollinating** [OBSL15]. **Pollination** [GAG+12, ZCY+19]. **pollination-herbivory** [ZCY+19]. **pollinator** [FAG10, RW10, SGBG19]. **pollinators** [DF13]. **pollutants**

[LSR16]. **polluted** [Mon13]. **pollution** [BFP+18, GLC+18, KPTC14, NKSA13, PMBM11, RAF17, SRXP14, SWZ+12, SB15, WLZC11, YDZ+21, ZH11]. **polychaetes** [DLL+19]. **polychlorinated** [SHS+12, ZLLZ13]. **polyculture** [XCL+11]. **Polycyclic** [ZCSL18, XWW+11, XQZ+13]. **polyethism** [MPK18]. **Polygonum** [MBBA17]. **polymictic** [HSR+15]. **polymorpha** [KVP16, Lin15b]. **polymorphism** [RPGA15]. **polyps** [MIC14]. **polyunsaturated** [SAAD16]. **POMDP** [Wil11a]. **pond** [HH12, LL18b, MXC13, MWM+16, SRHL11, VHDM17]. **pond-breeding** [VHDM17]. **ponderosa** [BHD16, FMS13]. **ponderosae** [PB14]. **ponds** [BAP18, CBB19, NW18, SFC+12, SBC+15]. **pools** [AL16, GJB+11, HWS11, SDD+13]. **poor** [DOB+15, DBG14b, DBG14a, RKNO17, SAKB+10]. **poorly** [FCLFB18]. **POP** [Och10]. **populated** [PLFO+12]. **Population** [Ano12a, CHNdÁP18, GC11, GT14, HTL+14, JDZC14, KWGG19, LN16, MAP+13, MCA18, Rin18, TVI+13, TWS+11, ALG16, AGJ+12, ACC+10, ACCM16, ACKS13, ATCJ+19, AGB+13, AHNK13, BFA11, BAA+14, BBB+17, BG19, BKV17, BNL+13, BPB+18, BH13b, Ben12, BSC+15b, BBL11a, BLRN15, BNC+18, BDG+14, BQF+18, BPM+15, BPM+17, BTBM17, BAJ+11, BWML15, CL12a, CLBG15, CGV+15, CEWW18, CMH14, CWL+16, CS17, CMA+13, CJC11, CLDRJ18, dSCdA19, CL12b, DJT+19, DSJ19, DTC+10, DMR13, DHS+16, DFF17, DMBS11, EPA+10a, EPA+10b, ECO+14, FGH+10, FMG+16, FtHvdB+14, FvBM+11, FSM19b, FNR11, GHWG+14, GQRC+17, GQNMR18, GPM16b, GV11, GHS+10, GJK+15, GMvV17, GDDFT16, GDW12, HCW+17, HFSL14, HPS10, HTB13, HTB17, HBS16b, HAOS17, HBT+18, HMA10a, Hui11, IPSH14, IN16, IKL14, IKH+11, IGBSASSJ16, JSKK15]. **population** [JBH+14, JBB+11, JOHW17, JJMW14, KSS11, KKR19, KUI+18, KFDL+19, KYvdPS14, KL10, KAC+12a, KAC+12b, KH15, LJLC15, LAR+16, LCH12, LBWW14, LBW18, LLH+13, LMCA+12, LZYH19, LW17, Log16, Log19b, MTZ+10, MV11, MCRB17, MPR13, MD16, MBG17, MGD+12, MFD+15, Mat13, MSB+17, MSCM18, MIC14, MG18, MPK18, MBM+18, MHRB19, MGWW13, MDVG+15, MATS14, NNST+14, NZL13, NL12, NMdR16, Och10, OJM+12, OLC+17, PRHH13, PRL+13, PRH17, PMRGF10, PC15, PZM13, PVB16, RJG+13, ROG+16, RGHS11, RR12, RRG+15, RGRMRR18, RMvW13, RH17, SCB13, SJTS13, SBCB13, Sak13, SCHQA16, SK10, SBR+19, SXNL18, STD15, SSC15, SFL+19, Slo11, SPWR17, SvdR10, SKPHW16, SGBG19, SMBGH+19, SW15, TSP19, TPG14, TMC+16, TSM+15, Tho10a, TF13, TL15, TNTH11, TSSL11, VEK12, WHRR15, WSSM15, WFA+13]. **population** [WCS+14, WRSL11, WFDDR10, WAGM17, WPZ+14, XCR+13, YZ16, YSB11, ZJL+16, ZBSF17, ZKSF17, ZSSR18, dAdSC15]. **population-driven** [TSM+15]. **Population-level** [MAP+13, FtHvdB+14, GHWG+14, LBW18]. **populations** [AAME11, ACE+17, AHS+17, ARV+16, BDL+13, BAAB18, BBRJ15,

dÁGP14, BRS+18, BSHG16, CCCP17, CVS+13, CDK+17, CDL+11, CMGF14, CD15, DCCS17, DPPI14, Dil10, DFK+11, GHD+19, GCTS15, JX15, Joh10, JHT+14, KCAP17, KCG18, KEHG17, LG10, LSGT13, LTGD16, MHRB19, Mon13, MPGCS14, MNHW+13, MFI13, NdA16, NS15, NYF16, NTK14, OOH+12, PL10a, PF12, POS+19, PDV17, PP12, Rai13, Rem11, SBCB13, SBA+19, SBDS13, SMT19a, SMT19b, SSQ+10, SED15, Sto10, SNZ+19, THOA10, TT17b, VSC18, VP12, WGL+12, WNF+15, WR13b, WSW+16, WSBP13, ZZA+18, ZW11, ZYKS15]. **Populus** [ARM+12]. **porpoise** [FYR+18, MCL+17, NNST+14]. **port** [GSJ+10]. **Portugal** [BRV11, BPGSS+18, DVD+14]. **Portuguese** [DPBS10, TDC+11]. **position** [AB10]. **positions** [JBCÑ11]. **positive** [FGPR10, MCA18, YZ18]. **Possible** [PMP+13, CAMNN16, CRTS15, SKK+13]. **Post** [VB10, AFC12, CADB19, LM19, SVH+19, SGG14, YWA+17]. **Post-fire** [VB10, CADB19, LM19, SVH+19, SGG14]. **post-harvest** [YWA+17]. **post-hoc** [AFC12]. **poster** [LPA+11]. **Potamogeton** [HH12]. **potato** [KYvdPS14, PHvB+18]. **Potential** [GV15, KPK+17, LCS11, RRBI14, RHR+15c, AVL+11, AMRH19, ADL+10, BSH17, CVPR+16, CNH+11, COK+11, CPAG15, DPBK10, DFK+11, DSBS15, ENC+15, FRV+16, FKK+18, GA15, HRSKW15, HHC+13, IKL13, JDT+17, KBS+15, KWGG19, LN11, LBE+17, LJ10, LPS+10, LW17, MU17, MSB+17, MPGCS14, MCP16, OQH+13, Qia12, RRHH10, RTE+15, SJS+13, SGP18, SGDP19, SGKR10, VZF+11, WC19, WSW+13, WLY+15, WXB10, Wol11, XTLM15, YKvWK16]. **potentially** [LB15]. **Potentials** [FT10]. **Potomac** [CTNH13]. **power** [GSF+16, GCW+16, dSGGBW12, KPS17, Lee14, RDD+17, Sci11b, SSR16, SSQ+10, SGHW+17, Til15]. **Poyang** [DZW+11, YDL+15]. **pp** [Jör11a, Jør14a, Jør14b]. **practical** [AVG14, Mar17]. **practice** [HCL+16, KB11, Log13b, VBS14]. **practices** [CSH11, DMBS11, LVLS14, LLT+17, MBLC14, OWMK10, PAT17, RSD+15, VSB13]. **prairie** [TSB+18, XLL15, ZWJ+17]. **Prairies** [LLT+17]. **prawn** [CLW+19, KSZW16]. **Prays** [GCTS15]. **pre** [FMG+16, Lin10, Lin16, WPZ+11]. **pre-alpine** [FMG+16]. **pre-balance** [Lin10, Lin16]. **pre-commercial** [WPZ+11]. **PREBAL** [Lin16, Lin10]. **precipitation** [BTS19, DS21, GLRT16, GWF+18, HBG+16, HC11, XLL15, YSA+14]. **precision** [KCP+15, PC17, XLR11]. **Predation** [LAK+21, BLD10b, BBL11a, BEBA19, CB15, DWWS15, DdSCG11, MW15, MLK17, MYJ+14, SW15, URJ10, VWTA16, ZFG13]. **Predator** [Rin14, RCP17, AAA13, BKV17, BTB17, BEBA19, BWML15, CL12a, CTC+18, CCG15, dSCdA18, DHHB15, F.11, FR11, FSM+19a, Flo14, GK14, GORJ12, Jen12, JSW+13, KG13, LDM15a, MLW11, MW12, PME+16, RHO11, SGSR10, Ver10, VWTA16, WN17, WCF+16, WZWL10, WM14, WSSM15, ZFG13, dOMZ13, dSdCF10]. **predators** [BV15, FE14b, GMTC+17, KNU+15, NdA16, NGL13]. **predatory** [BPB14]. **predict** [AGQP+14, ASL13, CTP+17, DAF+11, FLB+15, GBP+10, LAD11,

MPR13, MRM+17, MMMGLN+18, PB14, QL15, RRJVA13, RV13, SZSV12b, SW15, TKW17, TWL11, VZF+11, WZD+14, YHW+12, dSD14].
predictability [Ban11, Bev15, NBK+11, ZH13]. **predicted** [BTS19, BP16, HLLO13a, HLLO13b, JGB15, MMVAHMC16, WSBP13]. **Predicting** [BFNH14, BBGJ13, BBL11a, BNC+18, BGPJ10, COPP13, CPS+19, CSFR15, CDG15, CWM12, FTK+14, FSV+12, FBKS17, GCDA16, GSF+16, GPZB18, HCW+17, KP13, KHKC+18, KJH+13, LS10, LLKY18, LB18a, MSKS13, MJK+17, MRC19, OHS+17, Phi11, RJG+13, RKS+10, SLLW15, Vet12, WCL+17, WBHM11, YAGMM+14, ZZT13, vdVJS16, AWSS14, Ant14, AJDS16, BTB17, BCL+14, BTPG10, CWMC+12, CPAG15, For18a, GKF+14, GC14, GEB10, HJWG12, HFMM+12, Kos17, Mon13, NW18, PMS11, SGRAdJ17, TLZ17, YDD+13, ZXD+13, ZSG+18].
Prediction [GDC11, JDP+12, KC18, WX11, YKL+12, AKvO+10, CC14, FIG+10, JTM+17, KLS17, LAB+10, Log19a, MRWN19, MRC19, SCB13, SZSV13, SELB10, VALC12, VAK+11, YSA+14, YKvWK16]. **Predictions** [GCM+13, KASS12, WCF+16, BR16, CS17, CBA16, DDR+18, FCFT16, For18b, GCA16, GLR+19, GB16d, LHW+15, MSF18, MSR+14, RLB+12, RR12, RMHE15, SPWR17, SWGC16, WC19, YHJ+17]. **predictive** [Ano17a, AFC12, BDL+14, BS15, BLB+17, BG11, CRO13, DSK+11, GGV13, HD14, KRL11, KK12a, LKDD15, RKNO17, SC21, SPB+17, TFMP11, dÁSMRT+19, vVHZHvD13]. **predictor** [HJN12, MRWN19]. **predictors** [DKJH13, MGGLBIBD13, PLHG14, SGA+16]. **predicts** [BHD17]. **Preface** [BPRT13, BNP10, Jør10a]. **prefecture** [YHZ19]. **prefecture-level** [YHZ19]. **preference** [FSN+15, MCL+17, SZV14]. **preferences** [MHMRAHHS19, RW10]. **preferential** [MSV+11]. **preferred** [GH13]. **prehispanic** [KBC+12]. **Prelim** [Ano14v, Ano14w, Ano14x, Ano14y, Ano14z, Ano14-27, Ano14-28, Ano14-29, Ano14-30, Ano14-31, Ano14-32, Ano14-33, Ano14-34, Ano14-35, Ano14-36, Ano14-37, Ano14-38, Ano14-39, Ano15r, Ano15s, Ano15t, Ano15u, Ano15v, Ano15w, Ano15x, Ano15y, Ano15z, Ano15-27, Ano15-28, Ano15-29, Ano15-30, Ano15-31, Ano15-32, Ano15-33, Ano15-34, Ano16v, Ano16w, Ano16x, Ano16y, Ano16z, Ano16-27, Ano16-28, Ano16-29, Ano16-30, Ano16-31, Ano16-32, Ano16-33, Ano16-34, Ano16-35, Ano16-36, Ano16-37, Ano16-38, Ano16-39, Ano16-40, Ano16-41, Ano16-42, Ano16-43, Ano17-41, Ano17-42, Ano17-43, Ano17-44, Ano17-45, Ano17-46, Ano17-47, Ano17-48, Ano17-49, Ano17-50, Ano17-51].
Preliminary [Ano21d, Hal11, RMTM+16]. **prerequisite** [CZR+14].
prescribed [CPD+11, TXM+10, XTPT11]. **presence** [AGJ+12, CGB+13, FN15, FJH15, GKF+14, GdSHA10, HMD+16, HTB13, HTB17, LWY+11, LB15, MMPG16, PKT15, PÓF+18, UG12].
presence-absence [PÓF+18]. **presence-only** [FN15, GdSHA10]. **Present** [JVY19, WZG15, BAAB18, BKP10, Bar11, GAP+19, JX15, VPC11].
presented [LYP+11, LPA+11]. **preservation** [LKAL+13, YYQ11].
presettlement [Tul14]. **Prespa** [KNM+10]. **Press** [Jör11a, Jør14b, Kat11].
pressure [CGLA10, TBA19]. **pressures** [MLMFN+15]. **Preto** [dSdCF10].

prevalence [FMF12, LLFL12, SPB+17, WGTH16]. **prevention** [ZMMHR10]. **Prey** [MF12, AHS14, AAA13, BKV17, BWC17, BM16, CL12a, CCG15, dSCdA18, F.11, FR11, FSM+19a, Flo14, GK14, GORJ12, GCvDM12, Jen12, KG13, LDM15a, LKG+17, MLW11, MW12, MW15, NdA16, RHO11, SGA+16, SGSR10, URJ10, Ver10, VWTA16, WN17, WCF+16, WZWL10, WM14, WSSM15, ZFG13, dSdCF10]. **Prey-abundance** [MF12]. **prey-subsidy** [BKV17]. **Price** [Jør14b, Jör11a]. **primary** [ABD14, BSC+15a, BH17, CLWH15, FCG+19, FTTV+18, GGZ+16, HB12, HLLP+10, HNWT10, yHAB12, LCL+13, LLY+13, LLT+14, LZZP16, LJCG15, MMM+16, MPKC12, MFS18, OdlFDP15, PFA+16, RHvdTS14, RMTM+16, SMC11, SM14, SLZ+17, TMC+16, WBS13, WNT+13, WYS12, YqWB+15, YLY+18, YCL+14, ZZFH15, ZZB+18]. **primate** [BLD10b]. **primates** [BFNH14]. **primeval** [HOŠ+12]. **primrose** [FLLB11]. **Primula** [FLLB11]. **Prince** [GPC14]. **Principle** [Jør14a, RHS+15, RHD+16, Sci11b]. **principles** [Ken19, LBGM19, RHR+15c, RRH+19, WSS+16]. **printed** [KPS17]. **priori** [SBM+12]. **priorities** [Bin17, CAMCK+12]. **Prioritising** [HPO+15]. **prioritization** [DMDJ13, MSM+17]. **prioritize** [HAOS17]. **prioritizing** [DSA+18]. **priors** [DG16, MMD+17]. **pristine** [GKW+13]. **PRO** [LHLW15]. **probabilistic** [Bil11, HYG14, LWC+18, MAC14, MDKK15, SMSAN+14, YTT+11]. **Probabilities** [NSN17, Pec12]. **probability** [KF16, KKP+11, LWY+11, LYC+15a, OMDP11, PTA+12, ZR19]. **probability-based** [KF16]. **problem** [Bil11, JSCS19, KdVRdW17, Log13a, MWB+10, Qia12, Ret12, RKW12, RCCN11, KCB+17]. **Problems** [UM18, BFR17, BDWP16, HCK18, KK16, KFDL+19, PK12, WK17, XTLM15]. **procedure** [ADF+17, BAJ+11, GCIB10, XBvdV+14]. **Procellaria** [ZDL+17]. **Process** [CdMMF16, HVCP16, LVB+15, Pér18, SLH+11, TVT12, ZWJ+17, AAJB21, AD12, BTS19, IHSM12, CdOR10, CMLY19, CPS+14, CLDRJ18, GGSP14, GLS+17, GS19c, HWS11, HYL+17, HGN+16, JTB+19, KWGW19, KRCVF16, LBH+15, LTL+13, LLT+14, LL18a, LVZ+11, PSB+17, PWP+19, RVL+18, SHT+21, SRSS12, SX11, SBA+13, SRT16, SLD+19, UM18, WGA+13, WWYO18, YLC13, ZLZS14, ZCL+16, ZGF14, CBGK15]. **Process-based** [CdMMF16, HVCP16, Pér18, SLH+11, ZWJ+17, AAJB21, AD12, BTS19, IHSM12, CPS+14, GLS+17, GS19c, HWS11, HYL+17, JTB+19, LTL+13, LLT+14, PWP+19, RVL+18, SBA+13, SLD+19]. **Process-focussed** [LVB+15]. **process-oriented** [SHT+21]. **process-representation** [PSB+17]. **process-rich** [SRT16]. **Processes** [ASS14, AWWD16, AAJB21, ADF+17, AJDS16, BPB+18, BSS+14, BA14b, CHPS17, CLLB12, CdMMF16, COBF13, CLT+11, COY+10, CGAB17, CIHL14, DVF+19, DJH10, FDP+10, FMA+12, GGM+12, GdTCFG10, GCK+15, GVV17, HGPF15, HZZ+18, HB10a, HTVE18, LV17, LHW+15, MPR13, MNEG11, MDVG+15, MRTW18, NU11, OGOWW16, Pat12, PLS11, QDH+10, SPM+18, SvdMKS11, ST13, SM13, SFC+12, SYL+13, SEHD18, SKPHW16, VVH12, WRMB18, XSN+18, YLF+15, ZH13, ZLF+15, ZLFZ16,

ZLZ17c]. **processing** [HKP10, TB11, TB12a]. **processionary** [GBB13]. **processors** [vdKGV11]. **Prochlorococcus** [GMvV17, HBB15]. **produce** [CPE13, PW10a]. **produced** [HKlL14, KHW+16, RMLTCQ+19]. **producer** [Kei12]. **producing** [GPA+13, SBDA16]. **product** [KØ13, YqWB+15]. **production** [Abe10, Abe15, ABAG15, ABAG16, ABAA21, AHF+13, BPS+11, BH17, BGGL16, CMT+11, Cam15, CEC10, CCF13a, CLWH15, FDHL17, FPWG14, GPK+13, GGZ+16, GSA+19, GBP+10, GCR18, HB12, HFU11, HLLP+10, HGE+10, HNWT10, yHAB12, JC11b, Ju19, KR10a, KØ13, KM12b, KR14, LMGW16, LLY+13, LLT+14, LZZP16, LHB+18, LCPB+10, MMM+16, MFS18, MK12, MGW+21, OdlFDP15, PFA+16, PAGCV+10, PANL11, QL15, RVL+18, RHvdTS14, RL15, RRHH10, RSDP+12, RM13, RUSL19, SvBH+14, SNS+12, SJS+13, SM13, SM14, TZS+14, TVV13, WAS+16, WBS13, WCL+17, WØ15, YWH15, YLY+18, YC13, YSA+14, YLL+12, YCL+14, YDT+13, ZZFH15, ZXD+13, ZZL+19]. **Productivity** [Kei12, AW16, ACK+14, ABD14, BSC+15a, BPC+17, BNGP19, BFH14, BWML15, CSS+19, CBB19, DBG14a, DWP13, FCG+19, FTTV+18, mGZK+10, GEZ+13, Gra14, HN14, Hoa11, JL18, KKBZ17, LKH+18, LB11, LCL+13, MSG+13, MBW14, OES16, PVBC14, PGV10, PPO12, RMTM+16, SMC11, San17, SLZ+17, VCD+17, WGA+11, WGA+12, WGA+13, WNT+13, WYS12, YKvWK16, ZZB+18, ZSKI17]. **products** [GRRU15, GV15, PSWM+10, Vav10]. **profile** [TTCH+14]. **profiles** [BP17, DBR12, RPPW16]. **profitability** [dJGM+18]. **profitable** [BWRA16]. **profits** [PPDF14]. **prognosis** [NGWZ16]. **Program** [HPW+12, KFvSH15, ZZLZ14]. **programming** [BDWP16, Che10, EBA+19, vDHH+14]. **programs** [VC17a, YRGH16]. **Progress** [SLW17, YJL11, HhLY+19, JNF16]. **project** [BGD+16, GCL+19]. **Projected** [SBF15, HEJP17]. **Projecting** [FPWG14, MNEG11, BvHR+15, CJR+16]. **Projection** [KMP14, Log13b, DK17, EEB+17, EEK+18, MTGD17, POBH10, ZBSF17]. **projections** [AS12, DKJH13, FRM+19, HPC13b, KDT+17, NA11, OJ10, SJB+16, SWR+16, TCW11, dBGS+14]. **projects** [BRW+12, YKCN10]. **prokaryotic** [LMSK12]. **promote** [BSS+14, Fat14]. **promotes** [KMKL19, NSIiT17]. **promoting** [FR11]. **promotion** [YFL+18]. **promotions** [FDR+17]. **prone** [ADPS10, TLS+16]. **pronounced** [GPK+13]. **Propagation** [RR12, CPD+11, IWW12, JGX13]. **propagules** [GPJL15]. **Proper** [TNHB12]. **properties** [BGC10, BFM11, BPK+12, BRPK14, EIG+10, Fie12, GANB11, HLLP+10, KSG+14, LB18a, MBHW12, MMC+19, NOOM+16, OCB+13, PBP+15, PICR13, TL10, UDRA13]. **property** [KVU+10]. **propionate** [PJ16]. **proportional** [UG12]. **proposal** [CBA10, GSA+19]. **Proposed** [RSD+15, ROSC15, Sil11, TT17a]. **protected** [ASP+15, BJJ12, BAT+15, CGEdM12, dSCdA19, FJH15, FBDR17, GAP+19, HA18, HCE+19, PPB+18, Pra12, ROSC15, VPB+17]. **protection** [BPM+17, CRVS13, NXZ18, RSCS19, WSE10]. **protein** [KAJØ19, KH15]. **proteins** [SWS16]. **protocol** [GBD+10]. **provide** [BPWB14, SBM+11].

providers [BS10a]. **provides** [GA15, SBVA+13]. **Providing** [AMM+14, HHUD14]. **Province** [GZS+18, MJP+12, YLW+11, ZLZS14, ZXD+13, LHL18, SC21, ZZLZ14]. **provision** [WYHC15, WLY+15]. **provisioning** [CWM12]. **proxies** [VMSM10]. **proximate** [EAJG16]. **proxy** [FML+17, RHR+15b, RDR+17]. **pruning** [GHS+10]. **Prymnesium** [GRB12]. **psammophytic** [HYL+17]. **pseudo** [IBH+15, LPT+18, SHS11, GDDFT16]. **pseudo-absence** [IBH+15, LPT+18, SHS11]. **Pseudo-nitzschia** [GDDFT16]. **pseudoacacia** [BRKP16]. **Pseudococcidae** [FTK+14]. **ptarmigan** [ZPNM13]. **public** [SM11]. **publicly** [HRWT12]. **published** [Bec10, Jör11a]. **Publisher** [Ano10-27, Ano12-38, Ano19-49]. **Publishing** [Wei19]. **Pueblo** [KBC+12]. **Puerto** [HSVL12]. **PUFA** [SAAD16]. **pulex** [KMS+12, KMS+13]. **pulse** [CSN+19, CGGL16, Jag14, Ji15, LMCA+12]. **pulsed** [CZW10]. **pulses** [Lee14]. **Puma** [CGV+15]. **pump** [CQS15]. **purification** [HZT+13]. **purpose** [KK15a, ROG+16]. **purse** [JBCN11, MROGVR12]. **purse-seine** [MROGVR12]. **Pursuing** [ZH13]. **put** [KB11]. **Putting** [Ula14]. **puzzle** [SFM+18]. **pyramids** [RDR+17]. **pyrenaica** [AR11]. **pyrenaicus** [BRV11]. **Pyrenean** [ACM15]. **Pyrenees** [LBC+15, LBdA+19]. **pyrophite** [UDNSLC+18].

Qinghai [CBO16, SLZ+17]. **Qinghai-Tibet** [SLZ+17]. **Qinling** [FLX+14, GFW+17, LGDW12]. **Qom** [SC21]. **quadrat** [San11]. **QUAL** [ZSJ15]. **Qualitative** [ADJ+17, BJPB11, GV15, WMCM12, MDJ+11, Pat15]. **Quality** [Jam16, BA14a, BJJ12, BT16, hCjHMW18, CMEP15, DC10, DPvBvA11, ER13, FLB+15, GMP13, GCL+19, HHL17, HGBA+13, JLZ+18, KSS11, KMRW16, KPM+14, KLS17, LHL+17, LLQ+15, LPV11, MTZ+10, MA10, MP13, MH10, MSHC13, MCP16, PAT17, PANL11, RLB+12, RAF17, RZF+13, RCCN11, SFMA15, SAKB+10, TSB+18, UB12, WMW+12, YZPL16, ZWRK13, ZSJ15, ZLJM17b, ZLJM17a]. **quandaries** [Mar17]. **Quantification** [DMB+19, KSZW16]. **quantified** [BPK+12]. **quantify** [BYR18, KNPH+17, VSF10]. **Quantifying** [BRB14, CGS+17, CTMS10, CBA12, CBA16, DMH17, EST+19, For18a, HHUD14, HM12, LY11, LBW18, LMGM11, MMK15, Pat15, SBA+19, VQS+18, ZSKI17, CBA10, LBH+15]. **Quantitative** [BP17, CLWH15, For18b, MSM+16, HM17, LC13, MBBA17, Pen11, VR12, YZLX14]. **quantities** [GCV14]. **quantity** [CRBC11, KMRW16]. **Quantum** [ABC+14, RHR+15a, RHR+15c]. **Quebec** [LMY+11, LYP+11, LPA+11, WLH+10, ARM+12]. **queen** [AOW12]. **Queensland** [CRO13, HPO+15]. **quelen** [dABLBAdOR17]. **queried** [BPR+15]. **question** [KWGW19]. **question-driven** [KWGW19]. **Quinte** [KZR+13, ZKR+13]. **quota** [PBP+15, vDHH+13, vDHH+14].

R [Kat11, CF14, KB11]. **R-INLA** [CF14]. **Råcksta** [WFM16]. **radial** [AK17]. **radiation** [AML13, ENM11, JMSM12, KBS+15, LCS11, MRCW10, Pie10b, Pie10a, SMC11, ZML+12]. **radiative**

[Bai18, BBDB13, GGR+13, Pie10b, Pie10a]. **radioecology** [Mon13]. **radiogenic** [SBDA16]. **radish** [GDT+14]. **rain** [LCZ11]. **Rainbow** [KGM12]. **Rainfall** [ADPS10, AKLB19, BVVS15, BMD18, CMGF14, FKSK+10, KK12b, LDP14, Tie16, VSC18]. **rainfed** [TDC+11]. **rainforest** [LYL+17, PTE+12, SLZ+13, PMF+13]. **rainforests** [KK12b, PMS11]. **RaMDry** [FS18]. **Ramsar** [MGMR15]. **ranavirus** [POS+19]. **ranch** [PAT17]. **Random** [DG11, FMF12, TTL+18, CCS13, CH12, GGSP14, LJ13, MYHN17, PvVC15, PPBD13, SVH+19, Kos17, VZF+11]. **range** [AVL+11, BSC+15a, BM11, BRL12, BSHG16, DHL+12, DHS+16, GM10, GPZB18, KPTC14, MPP+15, MRM+17, NA11, RHO11, RRJVA13, SHT+21, WFA+13, WSC+19, XCG+16]. **range-wide** [DHS+16]. **rangeland** [AHF+13, EMH10, FS18, KF16, OES16]. **rangelands** [PLL+19, SC21, vLTdBP16]. **ranges** [BGD+16, OCD+13, Str15a, Str15b, VCE17]. **ranging** [MvDL+10]. **rank** [LKDD15]. **Ranking** [BS10a, AKvO+10, RP10]. **ranks** [RPPW16]. **rape** [GDT+14]. **rapid** [GGZ+16, LSZC10, LLQ+15, SLSS15]. **rapidly** [POS+19, SDY+15, WZG15]. **Raptor** [BFP+18, DDBK15]. **rare** [DDBK15, HPJ15, LCCL15, LJ15c, PH18]. **rarity** [ACE+13]. **RAS** [HD14, HD16, WZGH18]. **rate** [ACKS13, BP15, CCS13, CMSR19, Dil10, EH15, EH19, FE14a, HMPC11, Hos11, LKP13, MCR+15, NYF16, PR13, SLB+18, Sim11, VSF10, Vet12, WCL+17, dAdSC15]. **rates** [CEC10, DTS+12, DCCS17, DSS11, DMH17, GVGZ+21, GDC11, OBSL15, PRL+13, SG11a, TWH+14, WC19, dSJHG10]. **rather** [GHST19, TCGC16]. **Ratio** [Jen12, LDB14, CMD12, FML+17, GBP+10, HTL+14, MEC14, RAdA12, SK10, TVI+13, TMC+16, WB14]. **Ratio-dependent** [LDB14]. **ratios** [CS18, JS12, LWGH13, SBDA16, WWYO18]. **ratsnake** [DWWS15]. **Raugei** [UB12]. **ray** [Bai18]. **ray-tracing** [Bai18]. **rays** [DOB+15]. **Re** [Ula10, WTWS19, AWL+13, CVPH+14, ELPK12, KNPH+17, MJB+11b, HPC13a]. **re-assembly** [AWL+13]. **Re-creating** [HPC13a]. **re-encounter** [KNPH+17]. **re-establishment** [CVPH+14]. **Re-evaluating** [WTWS19]. **re-loaded** [ELPK12]. **re-organization** [MJB+11b]. **reach** [JX17, JJYM19, LWY+11, SCHGM16]. **Reaction** [LD16, BJR16, BRF+11, PvVC13]. **Reaction-centric** [LD16]. **reaction-diffusion** [BRF+11]. **reactions** [Vav12]. **reactive** [BMR+18, NP15]. **reactivity** [VMSM10]. **reactor** [DLCR13]. **reaeration** [CGdCCPCPM14]. **real** [BP17, CMSR19, DLL18, KK15a, OMH12, ZSS17]. **real-time** [CMSR19]. **realism** [GB16d, PPBD13]. **realistic** [CLBSG11, JGF14, LBS+14, MHG18]. **realities** [MH11]. **realized** [BFS11, HWH+18]. **reallocation** [BWRA16]. **really** [Nie16, Sci11b]. **reasons** [Dol10]. **reassessment** [Sci11b]. **rebound** [FG11]. **rebuilding** [BWML15, ZCR16]. **recalibrate** [LJLC15]. **Recalibration** [Jam16]. **recapture** [ABB+14, BS10c, CGAB17, HVL+19, OMDP11, RGHS11, RDJ19, TB12b, vPTOW18]. **recharge** [SPR+18]. **Recirculating** [HD14]. **Reckoning** [Ula14]. **reclaimed** [MRG13a]. **recolonization** [Mat13].

recolonizing [LN16]. **recommendations** [LDL12]. **Reconnecting** [BF11]. **Reconsider** [MW15]. **reconstruction** [BRHD15, CLBSG11, GGM+12, RMLTCQ+19]. **recontextualizing** [SS10]. **records** [Tul14, WSC+19]. **recourse** [LHZN11]. **recover** [ZKSF17]. **recovery** [AMF12, BMU10, CVPR+16, CRAP13, IKL13, IKL14, KRCVF16, LCH12, PRH17, PDD+18, RTE+15, TXM+10, VPC+14]. **recreation** [VLZ+19, WGD+17]. **recreational** [AWF10, CMCASS12, CMCC15, GH13]. **recruit** [HLK+12]. **recruitment** [ACM15, BBGJ13, CAL13, FIG+10, FC12, GHH+15, Lem16, OAPP12, SGG14, SP12, THJ+12, vPTOW18]. **recurrent** [BT16]. **Recycling** [ALL11, KZR+13, LDJZC15]. **red** [BSCG10, CNI11, DSW+17, GBP+16, Hat14, KPT11, KPTC14, KMP14, PPDF14, WFDDR10]. **redesigned** [CRO13]. **redistribution** [XLL15]. **redline** [GFW+17]. **redox** [KD13]. **reduce** [BOGA14, CC14, MHS+17, PLL+19, WR13b]. **reduced** [CL10, MLMH18, MGWW13]. **reduces** [LM12]. **Reducing** [DPLC13, FM10, MGD+12, MSH+19, TB19, Wil12, CPD+11, DSBM+18, DSBS15, GJB+11, PDV17, RPA+18]. **reduction** [CGY11, DZW+11, DSBS15, GWC+10, HB15, KPTC14, LCP14, LCP15, MGR+18]. **reductions** [WCG+11]. **redundancy** [LPF11, RHS+15, RHD+16]. **reed** [XLS11]. **reef** [ABAG14, CRBC11, CTMS10, GRYM11, HJ10b, KR16, MTJF11a, MTJF11b, MB14, PWBG16, SM13, wTA12, VSF10, YMCV21, ZLFI11, CDK+17, HBR19, MTJF11b, TLW+14]. **reefs** [MJL+13, MJL+14, RUSL19, WLR+11, MLAT+18]. **reestablishment** [FRV+16]. **reference** [PHC10, SHT+21, UFK+10, ZWW+18]. **refine** [KHHN17]. **refined** [KAJØ19]. **refinement** [BU10]. **refinements** [Til14]. **Refining** [SK11]. **reflect** [Lin15a, OGOWW16]. **reflectance** [dMHGA10, PSS16]. **reflects** [MCS+18]. **reforestation** [Ber13, LSH15, PMB+17]. **refractory** [KPM+14]. **Refuge** [SZSV12a, CRBC11, GORJ12, JFS+12, LHZ10, MLW11, MW12, MW15, WM14]. **regarding** [Md18, YJW15]. **regardless** [KHJ+19]. **regenerating** [AW16]. **regeneration** [CPMP13, CADB19, ENC+15, FMS13, FPG+10, HKN17, MWML13a, MWML13b, RPSA12, SLB14]. **Regime** [HT16, LBN+18, BPB14, BMD18, CpW16, DWP11, FAMD+12, LBC14, MCP16, OGG+16, WP14, ZW12]. **regimes** [CNH+11, CN11, DSBS15, GRD+14, GWF+18, HCS+10, LBE+17, LDO+18, RJH+10, RVNB11, SKHH19, SKMB11]. **Region** [DMR13, MRZU14, San17, TFMP11, ALC19, ADPS10, BLOJ+19, CCF13a, CR11, CR12b, GB15, HRSKW15, HLW15, JVY19, JMW11, LCH12, LLM+13, LLZ+16, LYL+17, LCT+17, MU17, MPL+16, PPB+18, RPC+17, TOQW11, TJYZ11, VB10, WLC+19]. **Regional** [KDT+17, KKL+12, MTJF11b, YWA+17, ARM+12, BA14a, BCO17, BGG+16b, Cho13, CRTS15, CHK+12, DLZ+17, DS12, DLW+17, FTK+14, GHS+16a, HBS16b, HGE+10, HSM+12, yHAB12, HPW+12, KGYG15, LJBS12, LHZN11, LZZ+14, LWL+17b, LPS+10, LLP17, LCT+17, MGS16, dMHGA10, RJH+10, SM14, SLD+19, WV12, YWH15, YLHZ14, YYH19, YHZ19, ZHC+16, ZQC15].

Regional-scale [MTJF11b, DLW+17]. **regions** [AHF+13, BM11, CHTC11, CN10a, DK17, HKM+18, LZZ+14, SCG+16, WL13]. **registration** [PBO19]. **regression** [Fis21, MROGVR12, SK11]. **regressions** [GGV11]. **Regrowth** [JBB+12, VB10]. **regular** [KMM+13, SZNL19]. **regularization** [CDR+13]. **regulate** [SKPHW16]. **regulated** [CL10, Pen11, TMT+18]. **Regulating** [MSS+19, GWF+18, HV15]. **regulation** [AHS14, AL16, BFP+18, BSC+15b, hCjHMW18, LJ10, LPD14, MBBA17, MUP+13, NYF16, WSW+13, ZW10, dÁSMRT+19]. **regulations** [RIMPBT19, RAB+10]. **regulatory** [KPS19]. **rehabilitation** [HPO+15]. **Rehd** [LGDW12]. **Reindeer** [PKT15]. **reinterpretation** [CT12]. **reintroduced** [SNZ+19]. **reintroductions** [ERGW+11a, ERGW+11b]. **related** [BCP16, BGD+15, CGM+14, DCCS17, LDYL18, MSF18, Oga17, Oga18, PCZ+16, Til15, ZZY+13]. **Relating** [GGZ14]. **relation** [ALKB10, GCL+19, JX15, LCS11, MTL+10, MGS15, SGA+16]. **relational** [DTS+12]. **relations** [BRPK14, FC11, LYCZ11, PVL+14]. **Relationship** [HWL17, LSR13, CBA10, GAV+11, HZSH17, LB11, LWGH13, LLQ+15, LQW+19, LJCG15, Pat16a, PPO12, PDG+14, RDD+18, SRTS18, SGKR10, TQZ12, WYY+19, ZWG+17]. **Relationships** [CT16, DSS11, GDC11, ADJ+17, Ano12s, AS14, BCP16, BBHP13, CJC11, FMW+19, GBR13b, HMPC11, KBL10, KWGG19, MV11, MCW13, ROC+13, RZF+13, TTCC+19, WK11, YLL+12]. **Relative** [PM16, ROG+16, VCE17, ZGF14, BEZ19, CdMMF16, CDT10, CD15, GSSM13, KR10a, KGM12, MHL+19, NGL13, RAB+10, WSZT10, XCG+16]. **relaxation** [Loe18, OFK+12]. **release** [BCL+14, GPD+13, KUI+18, KPSC10, LCD+16, RDJ19, YYQ11]. **Relevance** [Gia14, HTL+14, MSGG14, MRM16, MvDL+10, MDG10, UFK+10]. **relevant** [LBH+15]. **Reliability** [RH15, KCG18, LBSB+14]. **reliable** [Cho13, SBM+11]. **relict** [KKP+17]. **relictual** [BNGP19]. **relied** [NGGFM19]. **Reloaded** [JBV+15]. **relocation** [DÖWB12, JMdW+10]. **remains** [YL17]. **remnant** [DFK+11]. **remobilization** [SBC16b]. **remote** [BQF+18, CZ11, CLHH19, COK+11, CAY+10, CKMD14, GYL+15, JSdSdL+18, LSS+15, LAB+10, LCL+13, LZZ+14, LLH+17, MPT+11, MCBM12, MVC+17, MMK15, PTE+12, PSSH11, SX11, VHM+17, XLR11, ZCS13]. **remotely** [BRR10, BOW+12, DBR12, KMRW16, VFFP16, VALC12]. **removal** [BCTL16, BS10a, BDG+14, LLB+19, LDC+16, MJK+17, OSS13, PANL11, RM13]. **removals** [FN18]. **Removing** [vPTOW18, NGL13]. **renewability** [WØ15]. **renewable** [AMH16, BLY11, BU16b, CT16, JN15b, LLTQ14, LLW+15, LLTQ15, MRZU14]. **repeated** [MF16]. **repeatedly** [BRL12]. **replacement** [FWRZ10]. **replicates** [Ken19]. **Reply** [GCIB10, Pat10, Ten15b, WSS+16]. **Report** [WLF+16]. **reporting** [FM10, GU11]. **Repositioning** [RDD+14]. **repository** [CVG+15]. **represent** [CBB19]. **Representation** [PFR15, BAB+16, BS17, GBW+15,

HBP18, HB10a, KZR+13, KASS12, MAC14, PSB+17, SLMS14]. **representations** [GMTC+17, Sto10]. **representative** [IPSH14]. **Representing** [ERGW+11a, ERGW+11b, KMF+21, HKVR13]. **Reprint** [HTB17, KAC+12b, KCF18, LLTQ15, PVM13, RSC13, TB12a]. **reproduces** [MBG17]. **reproducibility** [Tat16a]. **Reproducing** [VAB+18, Con14, NdA16]. **reproduction** [LBW18, MJL+17, MRWN19, SM12, VAB+18, Vet12, WGSR19, ZFG13]. **reproductive** [BGA17, CH14, DPvBvA11, Kal19, Log17, LARZN13, OLC+17]. **reptile** [BSHG16]. **Republic** [ABS17, HV15]. **repulsion** [SW11]. **required** [TF13, YCL+14]. **requirement** [CCL+13, JMW11]. **Requirements** [SR14, BWC17, Cho13, SZSV13, YY11]. **requires** [Wol11]. **requiring** [PAB+13b]. **rerio** [HTL+14, KNU+15, LLC11]. **resampling** [DG16, UG12]. **Research** [HhLY+19, XJY+16, CAMCK+12, LST15, Pau14, YLW14, ZMS19]. **Reserve** [HV15, HZT+13, LKG+17, LCS11, LYC+15b, MGGLBIBD13, WALCY12, Bil11, dSCdA19, DÖWB12, KBB+11, LYC+15a, LLL19, MRP14, TLP17, TLS+16, LLL+10]. **reserves** [BPU11, LLL17, VEK12]. **Reservoir** [CRO13, CMLY19, HFB+11, MLW+15, SRXP14, AWSS14, CIHL14, DBK+13, GRB12, LPV11, LZYH19, RMP+18, RRR+10, REB+16, YY11, YY13]. **reservoirs** [APWT15, CHR+13, CCL+13, CSFB17, GAV+11, KRL+16, NP18, RR12, WhFxGZ16, XJY+16]. **residence** [WQD+13]. **resident** [MGCL17]. **Residual** [XWW+11, YDD+13]. **residue** [Nei11]. **residues** [QCB+11]. **resilience** [AS14, CHTC11, IPSH14, LY11, PMCKH13, Pra12, SK15, ZH13]. **resiliency** [DBS18]. **Resistance** [MJB+11b, HGSJ15, HQF+17, LYSW15, PHvB+18, PPZ+17, SPWR17, VHDM17]. **resistant** [FPO18, Mur11]. **resolution** [ARTBB14, BVJE18, IHSM12, BS17, CCLX17, FYWA12, GCK+15, HBSF16, JJYM19, KHS+19, KEM+16, MBSW12, MMK15, MSR+14, MOM+11, Pog11, RWVK11, WFN+16]. **resolutions** [YHS+11]. **resolve** [RUSL19]. **resolved** [CGG+18, MFS18]. **Resolving** [Wil11a, Bai18, KK16, MYHN17, TAT+16b]. **Resonating** [Hel10]. **Resource** [Lee14, PDBP11, PDG+14, UB12, BTM+10, BPC+17, BSCG10, BS10b, BEBA19, BPM+15, Che10, CBP+17, CD16, CN18, FMBD15, FS18, HCS+10, HAOS17, HWL17, JZCL14, KP10, KMS+12, KMS+13, LVB+15, LDG14, LYCU14, MRM16, MRZU14, OE12, PRHK19, PVL+14, RRG+15, SFM+18, SRTS18, dWcWbZ15, WEB11, WHNR19, dOAC18]. **resource-based** [LDG14, dOAC18]. **resource-limitation** [SFM+18]. **resource-limited** [FMBD15]. **resources** [BLY11, BMMC21, BdCS11, BSCG10, BPM+15, CC11, DMB+18, IT17, NTK14, SZ14, Sol19, Wil11a, ZMMHR10]. **respecting** [JZCL14]. **respective** [TCSG15]. **respiration** [CGdCCPCPM14, GYL+15, Gav15, LYD+17, LPS+10, MDW+12, Oga17, TWH+14, VRL18, YLY+18, YLL+12]. **Response** [CSR15, GLRT16, RHD+16, ZFT+10, ZZZW15, ARM+12, BU11a, CPMP13,

CLLB12, CSH13, CWM12, CSL+12, FM11, Fel12, GBP+16, GQRC+17, GJÁ+10, GU11, GTM+19, Gra14, HM10, JDT+16, KKK+19, KLGL19, LF11, LdMS+16, LHZ10, LSJG17, LMGM11, LLC11, LDB14, MLK+11, MJB+11b, OFK+12, OES16, PP16, Rem11, SQWS19, SLB+18, Sim11, TKH17, TIC+14, UB12, WZWL10, WPZ+11, WMK+13, WJ15, WSBP13, WUB15, WJK11, XZSL17, XTPT11, YYL13, ZJL+14]. **Responses** [JWX18, MBD+18, MPG18, PRL+13, AK17, AS12, BMN11, BFJZ+11, CBCB17, CDG15, FLLG13, FBDZ12, LLKY18, Loe18, MLMFN+15, MRB14, MR17, MCG19, PW10a, PCTW17, RFV+12, RA13, SCHQA16, SJGB16, SLB14, SGRAdJ17, TXM+10, TRE+12, WYHC15, XTPT11, XLL15, YGL18, YXD+18, YDL+15, dVLS11]. **responsible** [BPB14, PLS+16, WSE10]. **restitution** [HB15]. **Restoration** [NJM11, NBD+13, BGD+15, CNH+11, CLCC11, FMLM11, GSQ17, GGV13, HRSKW15, JDGJ13, KJH+13, MAC+12, MWB+10, MSB+17, PHC10, RJ17, RSD+15, TBJ+15, TAGC+16, WWYO17, YSH+10, YKCN10, YYQ11]. **restorations** [SXZ+15]. **restored** [SNZ+19, SGKR10, Yan11]. **restraints** [HVL+19]. **restricted** [BLH10, GdSHA10]. **restriction** [WKZ+19]. **result** [CMGF14, MHY+15]. **resulting** [BFH14]. **Results** [CLD+17, PTE+12, SMH16, KVS17, MH13, NPH+17, PSWM+10, PGW19, WGA+13, WV12, WR12, ZLF+11, vSGR16]. **resurrection** [HHK19]. **resuspension** [RGU+15]. **retention** [DKM+14, HKVR13, HSM+12, KD13, LDC+16, MM16]. **Retrieval** [LLM+13, XLR11]. **Retrieving** [DS21]. **retrodictions** [KASS12]. **Retrospective** [BFW14]. **Return** [GPM+16a, FN18, JSW+13]. **return-on-investment** [FN18]. **Reunification** [HLS+14]. **revamped** [TWH+14]. **reveal** [BLFS18, DDR+14, FRP18, GKKW10, MSV+11, Vav10, WBB+21]. **revealed** [SLB+18]. **Revealing** [Ju19]. **reveals** [GLR+19, HFMM+12, MGB13, RWH+14, RMLTCQ+19]. **reverse** [Bai18, DDR+14, ZSG+18]. **reverse-learning** [DDR+14]. **reverse-time** [ZSG+18]. **Review** [An12, FCLFB18, Jør14a, Kat11, ZWF18, AVG14, BSMA18, BU10, Cam16, CCF13b, CGP12, EH15, EH19, FKWZ19, GMC+19, GBD+10, GS19c, HF14, Hu16, JBV+15, Jør10b, LTL+19, LBH+15, LWL+17a, LHH12, OMH12, PMB+19, Pér18, PFR15, SW11, SFF+11, TFH12, TAGC+16, VG19, Wal17, YLZ15, ZMS19]. **Reviewing** [KR10b]. **revised** [BU16a, Sci11a]. **revisited** [KOBK13, Log13a, PM16]. **Revisiting** [vVBHZ11]. **Rhamdia** [dABLBAdOR17]. **rhino** [GKL18, KdVRdW17, LR16]. **Rhipicephalus** [WTG+16]. **rhizodeposits** [GA15]. **rhizosphere** [GA15, NP15, NPH+17]. **Rhizospheric** [NP15]. **Rhode** [BLCPB11]. **Rhombomys** [RMP+18]. **rhythmic** [MRB14]. **Rhyzopertha** [YWA+17]. **RI** [BN10]. **Ria** [BPGSS+18, DVD+14]. **Rica** [FAC+19a]. **rice** [COPP13, CBB+10, DS12, SNS+12, SVL12, SDSH15, SBC16b, TZS+14, XBvdV+14]. **rice-based** [SVL12]. **rich** [GWR11, NFU19, SRT16, THO10b]. **richness**

[ACE+13, HCP10, MPG18, SvWP+15, WRMB18]. **ricinus** [HMA10a, LVLS14]. **Ricker** [NS15]. **Rico** [HSVL12]. **Ridley** [KWGG19]. **Rift** [TW18]. **right** [Pat14a, Pat16b, Ula14]. **rigor** [Lin10, Lin16]. **Rim** [LLP17]. **ring** [EFM+10, MK12, VAO+17]. **ring-shaped** [VAO+17]. **ringed** [LAK+18]. **ringens** [XCR+13]. **riparian** [WZGH18, YLZ15, ZLJM17b, ZLJM17a]. **rise** [BME14, CAMCK+12, CWMC+12, DVD+14, FPWG14, KR10a, KKK+19, LB17, LKAL+13, RSC12, RSC13, WCL+17]. **Risk** [MMVAHMC16, RLHD11, TLL+17, WB16, AWF10, BCC+11, BSW18, BCV13, BLD10b, BBL11a, BCD12, dABLBAdOR17, CHvdW+10, CZW10, CCF13b, CAY+10, CMGF14, DPBS10, FtHvdB+14, GHWG+14, GDT+14, GAG+12, GFP+16, GT14, HA18, HYG14, HL19, IPSH14, KDK+10, KGM12, MPF+14, MDKK15, MHRB19, MYJ+14, NL12, PAB+13b, PKW+10, PLHG14, QCB+11, RWS+16, RGH+13, RCBPMN10, SCB13, Sol19, SGWV15, TMPF18, TZD+15, XWW+11, XPY+14, ZLLZ13, ZWA19]. **Risk-based** [RLHD11, NL12]. **risk-growth** [BBL11a]. **risks** [BG15, LL18b]. **Risky** [FTTV+18]. **RITY** [OFH+19]. **rival** [MTA19]. **River** [BS18, BCB+11, CLD+17, Con11, Con12, CSFB17, FCH+17, FWRZ10, HZSH17, HSTS19, HB14, JJYM19, KLS17, LLM+13, LC11, yLWhMhG11, MSB+17, MLH+17, MSHC13, NWAR11, RZF+13, RML+13, SMC11, TJYZ11, WLDL12, WDL+15, WPB14, WFSH15, WZG15, XLS11, XCL+11, YYL13, Yan11, ZLZ+17a, ALC19, AD12, BVP+13, BGG16a, BS10c, CCL+13, ER10, FSN+15, FB13, GLC+18, GSPSP15, JMW11, JBW+17, JA15b, LHL+17, LBK+13, LDC+16, Lin15b, MLY+19, MSO10, NWAR12, NiSK21, PGKG12, RHW17, SLY+17, SLB+18, SGRAdJ17, TMT+18, VPC+14, WWC+18, YLC13, ZSG12, dMLM+17, CTNH13, DWNN10, DVF+19, FS14a, FBB+18, GSPSP15, GFP+16, GWZ+15, GYL+13, HGBA+13, IGR+18, KSSA13, KHJ+19, MMRS+19, MCP16, PSBH16, RMLTCQ+19, SQWS19, SSM+13, WCL+17, WZGH18, WRSL11, WhFxGZ16, WAGM17, YXD+18, ZF11, ZZT13, ZSG+18]. **river-lake** [ALC19]. **river/nursery** [FB13]. **Riverine** [KPM+14, GHH+15, JD18, JBW+17, LRM+14, OC15, SXNL18, SQWS19, Sin17]. **rivers** [ARTBB14, FCS13, FLB+15, GJM+13, RAF17, WB16]. **roach** [ODK16]. **road** [BFR17, dÁGP14, FN18, FAPM12, FCA18, GJB+11, PGATS13, vSGR16]. **Roads** [SW19, CHNdÁP18]. **roadside** [GJB+11]. **roaming** [YRGH16]. **Robben** [WSW+16, WCS+14]. **Robinia** [BRKP16]. **Robust** [HDL+16, HWH+18, PP10, BCV13, CMEP15, FIG+10, GB16a, HCK18, KB10, OGOWW16, TB12b, dBGS+14]. **robust-to-fragile** [BCV13]. **Robustness** [GB16c, ZCY+19, AG11, CR12a, CBA10, HHvO+17, JJMW14, MSFR15, PBO19, Phi15, SBVA+13]. **robustus** [KCAP17]. **Rock** [RE10, LMBL12, NSIiT17, ZPNM13]. **Rock-Paper-Scissor** [RE10]. **rock-paper-scissors** [NSIiT17]. **rockfish** [GC11, KHW+16, ROSC15]. **Rocky** [CL12b, MJL+13, MJL+14, MZLCSZdP11, WLR+11, FSS+17].

rodent [BB18]. **Roem** [DSS11]. **role** [AMG19, ADL+10, ASS14, BBJV+11, BDTV11, BN10, CJC11, DCMK11, DCCS17, DJH10, DRS+16, FAC+19a, GRYM11, GPZB18, GWF+18, HHUD14, JDGJ13, KCF+13, KEM+16, LGMLD19, LZF+14, LBdA+19, MRM16, MSMM11, MS16, MWD+15, NOOM+16, PvVC15, QFG+13, RAdA12, RE10, SFvdM+17, SMG+12, SU15, SGBG19, SPP18, WB17, WJvdL+13]. **roller** [KSS11]. **Romaine** [MSHC13]. **Romanian** [PGR+16]. **Rome** [MSS+19]. **Rømø** [FSB13]. **ROMS** [IFC14]. **ROMUL** [LKKK+14, LKP13]. **Romul_Hum** [CKS+17, CSS+17, KCB+17]. **roof** [HJ10a]. **Rookery** [ZW10]. **root** [BDL+14, GPK+13, KJS13, MCR+15, MJÁ+12, NP15, PBB+14, TBL+15]. **root-induced** [NP15]. **roots** [LZF+14, NP15, NPH+17, SLMS14]. **roseate** [GQNMR18]. **rosenbergii** [CLW+19]. **Ross** [ACE+17, PLS+16]. **rotational** [LYD+17]. **Rothc** [MJF19]. **rough** [XLR11]. **row** [Pie10b, Pie10a]. **row-crop** [Pie10b, Pie10a]. **roxhburghii** [KKK+19]. **rubber** [KMM+13]. **rubens** [KPT11, KMP14]. **rubra** [LJWN14]. **rubrum** [GBP+16]. **Ruditapes** [VZF+11]. **ruffe** [DGKSM13]. **rule** [CC10, Cho13, JKS+10, JD10, MHL+19, PME+16]. **rule-based** [CC10, JKS+10]. **rule-implicit** [Cho13]. **rules** [CVV+13, CT12, GEPCB13, MHY+15, PAEE19, RP10, Til14]. **rumen** [GBW+15]. **ruminants** [KP10, RWvDM15]. **run** [EC10, LZW+17, RDD+18]. **run-up** [LZW+17]. **Running** [SA16]. **runoff** [BT16, GWHL15, JM15, KW18, LPX+12, LCP15, SHC+15, TBA19, TYEH10, WSW+13]. **rural** [LLW+15, MJLC14, RLHD11, TQZ12]. **Russia** [BKMK10, PVBC14, PSKO16, SKMB11, SSK14]. **rust** [Hal11]. **Rutilus** [ODK16].

S [JDT+17]. **S.** [FBDR17]. **s.l** [VVH12]. **sabrinus** [TDF+19]. **Saccha** [PGG14]. **saccharina** [PvVC13]. **Saccharomyces** [PGG14]. **Sacramento** [WZGH18]. **SAFE** [GBP+10, dJGM+18]. **safety** [hCjHMW18]. **sagebrush** [AHF+13, SLB14]. **Sahel** [LCH12]. **Sahelian** [SGBD10]. **SAILHFlood** [BBDB13]. **Saimaa** [LAK+18]. **salamander** [WSBP13]. **salamanders** [GPCG15]. **salar** [HSHF+13, LCD+16, MSHC13]. **salinity** [AML13, ADPS10, DWP16, FP17, HR11, LLC+17, MML+11, PICR13]. **salinity-prone** [ADPS10]. **Salix** [SP10]. **SALMO** [CZR+14, CSR15, HSHF+13, LCD+16, MSHC13, MMMGLN+18]. **salmon** [AHS+17, BCTL16, CF17, HHUD14, HSHF+13, Jag14, LCD+16, MGCL17, MSHC13, Mur13, PP12, ZBMC14, ZLD+19]. **salmonid** [BS10c, FBB+18, LLB+19, RLHD11]. **Salpa** [HPGM18]. **salt** [DVD+14, GGZ+16, GJB+11, XLS11]. **SALUS** [DBJ13]. **salvage** [SGG14]. **Same** [Tie16]. **Sample** [HHD12, BB18, KCP+15, SA13, SHS11, YAGMM+14]. **samples** [AYASR+17, GGV10]. **sampling** [AG11, BBRJ15, BPB+18, BDG+14, BOGA14, CGS+17, DG16, EAB11,

FN15, FMF12, LW17, MSF18, MSV+11, MDV+12, PJ17, PWGS+17]. **sampling-related** [MSF18]. **sampling/resampling** [DG16]. **Samsara2** [CLL+15]. **Samsø** [JN15b]. **San** [DWP16, GSJ+10, MLS+11]. **sand** [LSL10]. **Sandeel** [GCvDM12, GCM+13]. **Sandland** [HYL+17]. **sandy** [LBD10, LDO+18]. **Sanggou** [ZSF+12]. **Sanitary** [OJ10]. **Santa** [MJK+17]. **Sap** [CSN+19]. **Sapajus** [KCAP17]. **saplings** [CHG+15]. **SAR** [Con12, Con11]. **sardine** [CRA+11, GPH17, KKH+17, PME+16, WJS+18]. **Sarg** [KPT11]. **Sargent** [KMP14]. **sasakii** [KL10]. **Saskatchewan** [ABK+16, DBG14b, DBG14a]. **satellite** [BLRN15, BNC+18, KHS+19, LLT+14, MCMT+16, PK14, PSS16, RPGSCF16]. **satellite-based** [LLT+14]. **savanna** [AD13, Bae18, GLRT16, STJ15, Tie16, BFKS16]. **savannas** [AWWD16, BGP11, GWF+18, LS10, SJGB16]. **saving** [FG11]. **say** [Sci11b]. **Scale** [FC11, KFWM19, MWK19, QCLW18, Abe10, ABD+18, BP15, BP19, BKN21, BGD+16, BlMG+11, BA14b, BPM+15, Cha12, CCF13b, CY13, Cho13, CMCC15, DLW+17, EKB18, FMA+12, FHAG12, FtHvdB+14, FCLFB18, FYWA12, GLC+18, GLA11, GGV10, Gav15, GPA+13, GS19b, GNB+14, GLY+15, HCM+15, HZZ+18, HCP10, HFMM+12, IGR+18, IGBSASSJ16, JVY19, JMSM12, KMRW16, KD13, KHHN17, Kos17, KSG+14, KUK11, LBR16, LF11, LLTQ14, LLTQ15, LPS+10, LHW+15, LWY+11, LCP14, LSM19, MBLC14, MGR+18, MSV12, MDOJ14, MTJF11b, MGB13, MGSB11, NLM+19, NPH+17, PGR+16, RKS+10, RAF17, RPA+18, RDR+17, RNE+12, SHC+15, SGA+16, SRSS12, SWZ+12, SSKJ18, SBC+11, SKL+13, SGDP19, TZS+14, UB12, VSF10, YLF+15, ZLB14, ZZT13, dMLM+17, MBRR13]. **Scale-dependent** [FC11]. **Scaled** [CVS+13, Nak17, WFS+19]. **Scaled-dependence** [Nak17]. **Scales** [WØ15, AHNK13, CRA+11, CXW19, Cra10, ER10, HWL17, KDK+10, KVU+10, KGYG15, MSB+17, MGS16, PAT17, SG11b]. **Scaling** [vdKGV11, HWS11, Hui11, KGS11, KP10, MvdWU+16, TL10, WSZT10]. **Scaling-up** [vdKGV11]. **scalings** [TKW17]. **scallop** [KTM+16]. **Scandinavia** [JA15b]. **Scandinavian** [JSW+13]. **scanning** [HS11, KHS+19, MdMS+19]. **Scaphirhynchus** [DHC16]. **scapularis** [HM18a, HM19]. **scarcely** [VRA+17]. **scarcity** [LPF11, UR10]. **scatter** [PGW19]. **scavenger** [DMBS11]. **scavengers** [CMSPJ11]. **sceleratus** [CVM+18]. **scenario** [BWRA16, CZR+14, CMGF14, HHL17, LVLS14, MTJF11b, PAS+10, SBRD10, VPC11]. **Scenarios** [LCPB+10, BFJZ+11, BGD+15, CRTS15, DAF+11, FL11, GOSH+12, HV15, IKL13, JFS+12, JDT+17, KMKL19, LDM15a, MBD+12, MTPC13, MRM+17, MSM+16, OJ10, PSM+12, REB+16, SLSS15, SKMB11, SWR+16, WB14, XTPT11, YHK+19, YXD+18, YFC+11, dFMdSA18]. **scenes** [RJG+13, SYY+19]. **scheduling** [MRP14]. **scheme** [HWS11, HFMM+12, ZCYL15]. **schemes** [EST+19, LJ10, TDH12]. **Schisandra** [LGDW12]. **Schizas** [Pat10]. **schools** [DHHB15, RKRB16]. **Schwabl** [ZJG10]. **science**

[Cam16, DLW+17, Pat14a, Pat16b, RCS+19, Ula14, HhLY+19, Pau14, Jør14b]. **scientific** [BME14, CMV+16]. **scientist** [CBC+16]. **Scissor** [RE10]. **scissors** [NSIiT17]. **Scleractinian** [GBR13b, ENM11]. **Scomber** [LCC+14]. **scope** [CSL+12]. **Scots** [ACDC17, GVV+16, LM19, Log19a, UDP17, WJK11]. **Scottish** [KGM12, Mur13]. **scouting** [BGK+16]. **Screening** [BLBB13]. **scripta** [BGA17]. **scrublands** [MRN12]. **SD** [TLLX19, WN17, ZLZ+17a]. **SD-MaxEnt-CA** [TLLX19]. **SE** [ROSC15, HPO+15, OCB+13, OBC+21]. **SE-Queensland** [HPO+15]. **Sea** [BH13a, BH13b, DSW+17, KR10a, MSCH14a, SZSV12b, SW19, CF14, CAMCK+12, CWMC+12, DVD+14, DBP16, FS14a, FP13, FPWG14, KWGG19, LKAL+13, Mur11, MS16, NWAR11, NWAR12, PP19, PRH17, PBD+17, RPC+17, RSC12, RSC13, RCP17, TVT12, VVH12, WFA10, WCL+17, WHRR15, WFN+16, AALP18, ACE+17, BDV+19, BH13a, BH13b, BSO13, CAL13, CWA+15, CVM+18, CQS15, DOB+15, DBVS19, DSW+17, GS10, GCvDM12, GCM+13, Hei11, HSM+12, LY16, LAB+10, LCC+14, MML+11, MMM+16, MSGG14, MSCH14b, PCTW17, PPB+18, PLS+16, PGV10, RMHE15, RPP+15, SELB10, SPM+18, SGH16, SKM+16, TPL+15, WBS13, WB14, WYPF15, ZYZ17]. **sea-cage** [RPC+17]. **sea-level** [CAMCK+12, CWMC+12, LKAL+13, RSC12, RSC13, WCL+17]. **Sea/Baltic** [BH13b]. **seabass** [PAGCV+10]. **seabird** [LJ13]. **seabirds** [SSS+11]. **seabream** [PAGCV+10]. **seagrass** [ALeSD17, BAB+16, BGD+15, Hos11]. **Seal** [CF14, BTB17]. **seals** [LAK+18, ZKSF17]. **SEAMANCORE** [MLAT+18]. **Search** [Jør14a, BLH10, FCLFB18]. **seas** [HB10b, BSH17]. **season** [CMLY19, LCFD19, LAC10, YSA+14]. **Seasonal** [WHNR19, ZYZ17, ACC+10, BVJE18, DP15, EFM+10, ER10, FS14a, FTK+14, KH11, KK15b, LBR16, LDP14, LCZ11, LRB12, MCN16, Nak17, NiSK21, PICR13, RML+15, SAT+15, SLZ+13, SM14, TSB+18, TWH+14, WDL+15, WJK11, XTPT11, ZFG13]. **Seasonality** [KMMS17, AD13]. **seasonally** [DTC+10]. **seasons** [ZCYL15]. **SEBAL** [LLM+13]. **Sebastes** [GC11]. **Second** [Nie16, MH11]. **Secondary** [CV19, BH17, BPC+17, HSVL12, KM12b, KGD14, MBBA17, PR11, SRHL11, SWS16]. **secret** [SKPHW16]. **Section** [yLWhMhG11, Jør10a]. **Sector** [SKTG11, GSA+19, KGM12, LZJ+19]. **sectoral** [LYCZ11, NLM+19, ZLF+15]. **security** [HLW15, LSZC10]. **sedges** [RML+15]. **sediment** [HPG+10, KD13, OdlFDP15, RML+13, ZSJ15]. **sedimentary** [WJL+13]. **sediments** [BCC+11, PJ16, VMSM10, VRC17, VRL18]. **see** [Bev15]. **seed** [BFNH14, BCL+14, CV19, DF13, GDC12, GTM+19, HLS+14, HKN17, KR14, MOMC17, MLMH18, PDG+14, SMKM19, TKN14, TWL11, WXB10, vLTdBP16]. **seed-eating** [DF13]. **seedbank** [KvTL+18]. **seeding** [TB13, VAB+18]. **seedling** [qHLlZ+16, HKN17, Oga11]. **seedlings** [JAH+10, MCS+18]. **seeds** [HRWT12, MBBA17]. **Seeking** [SGM+14]. **Segment** [ZLJM17b, ZLJM17a]. **Segment-based** [ZLJM17b, ZLJM17a]. **segmented** [BDL+13]. **segregating** [KYvdPS14]. **segregation** [HGAT17].

seine [JBCÑ11, MROGVR12, DJMBD+13, TRD+15]. **select** [GSQ17, KKI+14, SZSV13, SvWP+15, ZLY16]. **selected** [Ana17, BJPB11, BBH+17, BNP10, GANB11, SBF15, LYP+11, LPA+11]. **Selecting** [WKH19]. **Selection** [DFL+16, MU17, BTM+10, BPB+18, BJJ12, Bil11, BBH+17, ČTT+12, GGV13, GGZ14, GCIB10, HMD+16, HAOS17, JTM+17, JJKJ11, KBB+11, LVB+15, LPT+18, Loe12, MAM+12, MU10, MRWN19, MGB13, Mur11, MFI13, NMS10, PBO19, PBD19, RRG+15, SCHQA16, SSD+17, SGDP19, TOHT14, TTL+18, WBG+14, WKF+17]. **selections** [CDR+13]. **selective** [Gat18, KMRW16, ZAW+18, vPTOW18]. **selenium** [GV11]. **Self** [DBH+17, GDC+19, LCZ11, PLB16, RPPW16, DGKSM13, LLC11, MHL+19, Oga17, Oga18, PGKG12, POB18, SLZ+13, SSM+13]. **self-organisation** [SLZ+13]. **Self-organising** [PLB16, DGKSM13]. **Self-organization** [GDC+19, LCZ11]. **Self-organized** [DBH+17]. **Self-organizing** [RPPW16, LLC11, PGKG12, SSM+13]. **self-thinning** [MHL+19, Oga17, Oga18, POB18]. **Selkeh** [SZSV12a]. **Semantics** [UDNSLCG16]. **semelparous** [SP12]. **Semi** [GWC+10, AHF+13, BC13, Ber13, CDK+17, Che17, CV19, FS18, GLRT16, GWF+18, HCZ+17, HYL+17, KF16, LHP16, MPL+16, MLH+17, OES16, PLL+19, SJGB16, SRP18, WYS12, **?**, vLTdBP16]. **semi-arid** [AHF+13, BC13, Ber13, Che17, CV19, FS18, GLRT16, GWF+18, HYL+17, KF16, LHP16, OES16, PLL+19, SJGB16, WYS12, **?**, vLTdBP16]. **Semi-automatic** [GWC+10]. **semi-closed** [HCZ+17]. **semi-empirical** [MPL+16]. **semi-humid** [MLH+17]. **semi-individual** [CDK+17]. **semi-open** [SRP18]. **seminars** [LP17]. **semiotics** [Nie16]. **SEMoLa** [DR14]. **Senegal** [BCB+11, BVVS15, CGEdM12]. **seniculus** [WFDDR10]. **sensed** [BRR10, BOW+12, DBR12, KMRW16, VFFP16, VALC12]. **sensing** [BQF+18, CZ11, COK+11, CAY+10, CKMD14, EAJG16, GYL+15, JSdSdL+18, LSS+15, LAB+10, LCL+13, LZZ+14, LLH+17, MPT+11, MCBM12, MVC+17, MMK15, PSSH11, SX11, VHM+17, XLR11, ZCS13]. **sensitive** [EC10, HSLC+19, KHJ+19, YKvWK16]. **sensitivities** [JWX18, Löp11]. **Sensitivity** [CDT10, FAG10, GLR+19, GCCB18, HHvO+17, JSL+10, KTGH19, KKP+17, KDHC+18, LCH12, LHB+18, MBW14, MJL+13, MJL+14, MCR+15, MGS16, MLH+17, NGWZ16, PC16, RMTM+16, RPPW16, RWP11, SMC11, SELB10, SPM+18, Tho10a, UDRA13, YDD+13, ZBS14, ZAW+18, AADA14, BLLJ17, BS17, CCW+15a, CCW+15b, COBF13, CL10, CAMCK+12, CCC12, CBB+10, DAA+12, DFM12b, DBJ13, GB16a, GGVB11, HGPF15, HBL18, JLZ+18, LKMCW14, LJLO11, Loe14, LB18a, MXC13, MTJF11a, MDKK15, MSCH14a, MSCH14b, MSFR15, OOFVBC16, OCCF17, PMCKH13, PP12, QCLW18, QFG+13, RHvdTS14, RAF17, SLLW15, SBPZ12, SKL+13, SBA+13, TPL+15, UKI+11, VJR+16, VPM+18, WMF+13, WGA+13, YZG16, ZSF+12]. **sensor** [JGX13]. **Sensory** [LGMLD19]. **Sentinel** [MAO19]. **Sentinel-2** [MAO19]. **separate** [LKLK15, PM16, YqWB+15]. **separating** [ZCYL15]. **September**

[Ano10q, Ano11-31, Ano11-32, Ano12-35, Ano12-27, Ano13-30, Ano13-28, Ano14u, Ano14h, Ano15o, Ano15i, Ano16g, Ano16s, Ano17-34, Ano17-33, Ano18-29, Ano18-32, Ano19d, Ano19h, GORJ12]. **Septicaemia** [KGM12]. **sequence** [TL10]. **sequences** [GLT10]. **sequential** [DG16, DPBS10]. **sequestration** [ABK+16, AML13, ACN14, GHP12, MPM+15, NJM11, OQH+13, UKI+11]. **Serbia** [RRR+10, SSM+13]. **Serengeti** [War10]. **Seriatopora** [KvOP10, MATS14]. **Series** [WHC+13, ACN14, BAJ+11, DSK+11, KA17, RWP11, SHBG10, VPS10, WPB14]. **serious** [YL17]. **service** [DML15, DMBS11, LSJ+18, LSJ+19, LLZ12, SDY+15, SFB+15]. **Services** [GAP+19, LYL+17, MSS+19, AAJB21, BHD16, BMU10, BFM11, CLA+12, DYU+12, EBA+19, ESP+17, GAG+12, GFC15, HRSKW15, HV15, HF14, JBV+15, JMB+11, JBW+17, LC13, MGR+18, NPP+18, OWMK10, PCB11, RDH+13, TLL+15, TAGC+16, VLZ+19, VVA+15, WO14, ZBAY14]. **SES** [CF17]. **sessile** [VCE17]. **sessions** [LPA+11]. **Set** [BHD17, MCB14, BMF+11a, BMF+11b, CPAG15, JBCÑ11, KYvdPS14, KFvSH15, LJ10, Lin10, Lin16, vVHZHvD13]. **set-aside** [LJ10]. **sets** [AHS+17, HL19, MU17, MCPB13, PLHG14, SFL+19, TBJ+15, XLR11]. **setting** [DTS+12, LCP15, RLB+12, SB15]. **settlement** [TQZ12, vSGR16]. **settling** [ZLG16]. **seven** [San17, WPB14]. **seven-compartment** [WPB14]. **several** [HKVR13]. **severe** [TGB+17]. **severity** [FMS13]. **sewage** [AJDS16]. **sewage-fed** [AJDS16]. **Sex** [BEPC15, FML+17, HTL+14, RAdA12, SK10, TKP14, TVI+13, TMC+16]. **sex-ratio** [TVI+13, TMC+16]. **sexual** [IWW12]. **sexually** [NdA16]. **Shaanxi** [ZZLZ14]. **shad** [HSCS14]. **shadows** [BFNH14]. **shallow** [BAB+16, BM16, BN10, CVPH+14, CdMMF16, CZR+14, CTP+17, DH12, FAC+19a, GJÁ+10, GYL+13, HB10b, HPRNP12, JSL+10, JHH+12, KHL+16, KvTL+18, LHZ10, LCY+13, LLZ+15, MH10, SLW+14, TSB+18, WFW+17, YZG16]. **shallow-water** [BAB+16]. **Shandong** [ZZF15]. **Shannon** [PVB16, RHQ+16]. **shape** [HM10, KOBK13, LJ15a, MAM+10, NWAR12, POB18, San11]. **shaped** [VAO+17, YZ18]. **shapes** [MLK+11, NWAR11]. **shaping** [DRS+16, TWH+14]. **share** [SFM+18]. **Shared** [NTK14, DS12]. **shares** [MTGD17]. **Sharing** [JSW+13, SZ14]. **sharks** [BTBM17]. **sharp** [BCV13]. **shatter** [DKM+14]. **shattercane** [WTL17]. **shed** [GO15a]. **sheep** [LJ14]. **Shelf** [DA19, CR12a, CQS15, DJS10, ER10, GC14, LBSB+14, PFA+16, ZRCNLI+15]. **SHELL** [IFC14]. **SHELL-E** [IFC14]. **shellfish** [BLCPB11, GBB+11, HCZ+17, IFC14, RRHH10, ZZL+19]. **shelter** [BBL11a]. **shelterbelts** [ABK+16]. **sheltered** [RRHH10]. **shift** [BPB14, BSHG16, HH12, LPT+18, MPP+15, MCP16, OGG+16, SK15, TZD+15, XTPT11]. **shifting** [LQW+19, MJF19, WFA+13]. **Shifts** [DWWS15, BGD+16, BMD18, CpW16, CJM+12, DAF+11, DVCM+10, FBKS17, HT16, LBN+18, MLC+16, MLK+11, MOMC17, MRM+17, NA11,

RH17, SS16, SKK+13, ZW12]. **shipping** [CLD+17]. **shoot** [Hos11]. **shore** [BLFS18, WLZC11]. **shorebird** [CWMC+12]. **Short** [GT14, MCG19, CRVS13, DR17, LA11, LAB+10, OBC+21, RTE+15, Str15a, Str15b, ZZT13]. **Short-term** [MCG19, CRVS13, DR17, LAB+10, OBC+21, RTE+15]. **short-time-scale** [ZZT13]. **Should** [Kos17, RA13, SM10, TCGC16]. **shrimp** [DLH+14, DBS18, LMGW16, MHRB19]. **shrimps** [ADL+10]. **shrinking** [KPTC14]. **shrub** [GdTCFG10, UDNSLC+18]. **shrubland** [AW16, VALC12]. **shrubs** [PFSF14]. **SIAT** [VKdW+10]. **Sib** [GVGC16]. **SIBBORK** [BS16b]. **Siberia** [KWJH16]. **Siberian** [THJ+12, TWS+11, XKI+11]. **Sichuan** [LML17]. **sidedness** [WJL14]. **Sidney** [KB10]. **Sieb** [Oga11]. **Siena** [MJP+12]. **sigmoid** [SCHGM16]. **sigmoidal** [TT17a]. **signals** [Bae18, OFGH+19]. **signature** [VRL14]. **signatures** [BPB+18]. **significant** [PVB16]. **silica** [OC15]. **silico** [Hel10]. **Silver** [SLB+18, dABLBAdOR17, NFU19]. **SIM** [KB18]. **SIMBA** [Och10]. **SIMBA-POP** [Och10]. **similarities** [GLSA+11]. **similarity** [VPC11]. **Simple** [AJDS16, HMS+11, JNHF18, MHY+15, ROG+16, RW17, RP10, AFC12, BVC+18, BP16, BP17, Ber13, Con14, DR14, DBJ13, EZ14, Flo14, FNR11, GORJ12, GC14, IKH+11, MLW11, MDW+12, MMC11, Mur11, MS16, PW10a, PBB+14, Pea15, RML+15, RRJVA13, RML+13, RWP11, SHT+21, Sim11, SWGC16, TTCH+14, TM12, WCF+16, WM14, WK11, WWYO17, ZLF+11, ZKR+13]. **Simplified** [JZ12, HMP+19b]. **simulate** [AWL+13, BPR+11, BOF+16, CVV+13, CLLB12, CPS+14, KF16, LKKK+14, LDM15b, MBD+12, SHC+15, SRSS12, SBC16b, SMBGH+19, TRE+12, VAB+18, WO14, WZD+14, YDZ+21]. **Simulated** [MGWW13, PAT17, WTG+16, WGTH16, AVL+11, CSS+19, CPE13, DSS11, FL11, GLS+17, LHLW15, MBW14, NZL13, PBFS14, RV13, SPM+18, SHM+14, WHRR15, WJ15]. **simulates** [RML+15]. **Simulating** [ABB+10, BFH14, Bre12, BWML15, CNH+11, CAMCK+12, CHK+12, DDM+17, DCMK11, DPPI14, DHHB15, DMR13, DH18, DHS+16, DWP11, DRS+16, FB13, FPG+10, GE17, GBL+13, GNB+14, HJ17, HFH+19, HWE+18, IMW+17, KRL+16, KVU+10, LMGW16, LLT+17, NJM11, PHvB+18, PGATS13, PAGCV+10, RWH+14, RBGB16, SRV+12, TOQW11, TS11, WR17, WSC+19, YLY+18, YDT+13, ZZJ+16, ANMJ12, AAJB21, AD18, BMMC21, CLH17, FKH+15, FMA+12, KDHC+18, LHZS10, LTL+13, LYD+17, LZZW17, MBHW12, MJÁ+12, NW18, PKD11, RPGA15, SBDS13, SQWS19, Sim11, SMG+12, SNZ+19, TTCH+14, TLLX19, THOA10, WPZ+11, WHB12, WMF+13, WRM+11, XZC+17, XSN+18, ZZB+18, ZHLZ17, vSGR16]. **Simulation** [BLBB13, CC12, FH11, FKDG14, GQRC+17, HJ10a, JJKJ11, KWGG19, KVS17, KMM+13, KVP16, LB15, MGMR15, MNEG11, MCBM12, MYHN17, Mur12, NBD+13, NGWZ16, OSS13, SH18, SYY+19, WGT12, dWcWbZ15, YKCN10, YYH19, ZJM+13, ABR12a, AHS+16, BFA11, BHD16, BHD17, BPB+18, BEBA19, BS17, CZC+15, CMM+10, CZR+14, CH14, CDT10, CBA12, DFL+16, DPBK10, DPvBvA11, DDB+12, DA17, DVL11, DFF17, DPBS10, GH13, GLC+18, GOSH+12, GLS10b, GdC14, HZSH17,

HHL17, HBH+12, HVCP16, HOKH18, HHF+10, JBB+12, KWS+13, KK10, KMKL19, KPT11, KWGW19, KKK+19, LJLC15, LBR+17, LTL+19, LDS14, LCD+16, LBW18, LLH+17, LL18a, yLWhMhG11, LM16, LCML11, MV11, MD16, MKSL+17, MHG18, MLAT+18, MCG19, MP17, MBA+19, MGW+21, NMT+19, Och10, OLG+13, PWBG16, PAEE19, PD12, PGR+16, RMP+18, RGHS11, RAB+10, RWvDM15, SFvB10]. **simulation** [SLZ+18, SGB10, wTA12, TT12, TNA+17, TDH12, TYEH10, VC17b, Wal17, WDL+15, WZGH18, WSE10, WP14, YHK+19, ZHC+16, ZYZ17, ZWJ+17]. **simulation-based** [BPB+18, GOSH+12, ZHC+16]. **simulation-to-optimization** [BHD16]. **Simulations** [DDR+14, KCAP17, LPX+12, MvdWU+16, SLD+19, YLF+15, ABK+16, BVGR+17, Bai18, CMSR19, CGG+18, HAOS17, HT14, KC18, KPS17, KTM+16, LJR14, LBM16, MSGG14, MPT+11, MDB19, MPR13, NMdR16, OBC+21, Qia12, SBC13, SRP18, SBC+15, SPG11, WGD+17, XBvdV+14, YqWB+15, ZW10, vVHZHvD13]. **Simulator** [FMA+12, GJM+13, PMS+17, TSN17, TKH17, ZZB+18]. **simulators** [Con14]. **simultaneously** [ACE+13]. **since** [Ano17a, LCBNP19]. **sinensis** [PFP+16]. **single** [BCC+14, Con14, dSCdA19, CRVS13, HHW11, KGD14, YHW+12, dAdSC15]. **sinicus** [JSH15]. **sink** [BBC+19, Loe12, SBA+19]. **Siping** [ZLZS14]. **Site** [GS19b, AKvO+10, AdMC+13, CNI11, FWRZ10, HMS+11, JJKJ11, KHW+17, LHW+15, MGMR15, MBG17, MGS16, PAS+10, SPM+18, SSD+17, WS15, WWYO18, YZA+18, YKvWK16]. **Site-** [GS19b]. **site-scale** [LHW+15]. **site-specific** [WS15]. **sites** [BVVS15, BSCG10, FHG12, LXS+16, YWY10, ZZB+18]. **Sitobion** [DFF17]. **Sitophilus** [YWA+17]. **situ** [LLKY18]. **situations** [GMP13, GBP+10, LVV+15]. **six** [CLL14, FCV+12, PD15]. **Size** [BPN12, PCZ+16, AAME11, Ban11, BSH+10, CL12a, CRUF13, CWL+16, CB15, CGM+14, GdSHA10, GV11, GAHE11, GPM16c, HB15, Lec17, LLH+13, LRB12, MGWW13, NLMdL10, POBH10, PDG+14, RW17, RGHS11, RV15, San11, SXNL18, SCHGM16, SFHK12, SGH16, SP10, SHS11, TKW17, TVI+13, TMC+16, TJYZ11, TQZ12, TTCC+19, YAGMM+14, ZCR16, ZGF14, vPTOW18]. **size-asymmetric** [RW17]. **size-based** [TTCC+19]. **size-different** [SXNL18]. **Size-related** [PCZ+16]. **size-selective** [vPTOW18]. **size-spectral** [Ban11]. **size-spectrum** [GPM16c, ZCR16]. **size-structured** [AAME11, CRUF13]. **sizes** [BB18, HHD12, LCP15, MPR13, SA13]. **skipjack** [DFM12a, DFM12b]. **Skylarks** [MGB13]. **SLAMM** [WYPF15]. **SLCD** [SMSAN+14]. **slope** [MBSF14, POB18]. **sloped** [CV19]. **Sloping** [ZZLZ14]. **Slovenia** [GMP13, OJ10]. **slow** [WGL+12]. **SLR** [DVD+14]. **sludge** [OTA16]. **sludge-amended** [OTA16]. **Small** [XWW+11, XQZ+13, ABB+10, BFP+18, CHR+13, CSN+19, CMCC15, EKB18, FAPM12, FCA18, GGV10, IGR+18, IGBSASSJ16, KHHN17, KSG+14, LZB17, MN12, RPP+15, SGA+16, SA13, WGL+12, YDT+13, ZJM+13].

small-scale [CMCC15, EKB18, IGR+18, IGBSASSJ16, KHHN17, SGA+16]. **small-world** [ABB+10]. **smaller** [NYH15]. **smallmouth** [LBW18]. **smart** [DSA+18, Gia14]. **SmartScape**^{TM} [TAT+16b]. **Smoky** [KPT11]. **smolts** [APWT15]. **snails** [BCP15]. **snapping** [AB13]. **snow** [DYMYGO19a, DYMYGO19b]. **snowdrift** [LPSC16]. **Snowy** [CAMCK+12]. **soaring** [DDBK15]. **Social** [BGC10, BYR18, CWLC13, CLA+12, CLD+17, GMK+19, GCCJ12, Ken17, LL17, LJ14, LZL+18, MRM16, MGD+12, PJ15, RGRMRR18, SGBD10, SKHH19, SvdR10, SXZ+15, UAB+11, VSB13, XZCL16]. **social-ecological** [CLD+17, LL17, MRM16, SKHH19]. **societal** [CSF11, LG17]. **societies** [KBC+12]. **Society** [Ano13u, LMY+11, LYP+11, LPA+11, BCP16, HZSH17]. **Socio** [GPM+16a, TBA19, BGMFES15, CPJ+13, CK12, DK17, Fai10, Hal11, LA11, MRN12, SDSH15, TLLX19, WAM13, ZFZ+14]. **socio-ecologic** [Fai10]. **Socio-ecological** [GPM+16a, TBA19, BGMFES15, CPJ+13, CK12, Hal11, MRN12, WAM13]. **socio-economic** [DK17, LA11, TLLX19, ZFZ+14]. **socio-political** [SDSH15]. **socioecological** [BUB+12, RAR15]. **socioeconomic** [RCBPMN10]. **Software** [MBRR13, BGK+16, GdC14, LBA14, LBA15]. **Soil** [COBF13, FTYI13, LKLK15, OLG+13, PBFS14, TDC+11, vLTdBP16, Agu11, AAJB21, AYASR+17, BVGR+17, BP15, BP16, BP17, BP19, BFP+18, BKMK10, BBH+11, CKS+17, CSS+17, CR11, CR12b, DS21, DJA+10, FBA+11, GPK+13, GBG+15, GE17, Gra14, GVC10, HWS11, HMS+11, HJS+16, HWL17, HOŠ+12, HHF+10, IBD+19, JL18, JAKJ10, KJMA11, KCB+17, KJS13, LBZA19, LBE+18, LYD+17, LLT+17, LPS+10, LKP13, LPD14, MLB+16, MBSW12, MBW14, MGS16, MAP+13, MMC+19, MJF19, Nei11, NBK+11, OKS+11, PAS+10, PP16, Pie10b, Pie10a, PANL11, SDD+13, SFvB10, SVL12, SBRD10, SCG+16, TRE+12, TGB+17, VPM+18, WC13a, WC13b, Wol11, WHC+13, XLS11, YDD+13, YYH19, ZLW+15]. **soil-core** [BVGR+17]. **soil-plant-atmosphere** [LPD14]. **soils** [BL15, DCMK11, FAS+19, GPK+13, GGVB11, GNB+14, JAH+10, LVPF15, LNB17, MOM+11, NP15, OTA16, OKS+11, OLG+13, SSW+18, SGKR10, TTCH+14, TLL+17, YDD+13]. **solandri** [MROGVR12]. **Solanum** [KYvdPS14]. **solar** [AML13, JMSM12, LCS11, PSS16, SBDA16]. **sole** [KHW+16]. **solenopsis** [FTK+14]. **solid** [BNGP19, ZHCX15]. **solids** [MTPC13]. **solitary** [CCCP17]. **soliton** [ACKS13]. **soltan** [SC21]. **Solution** [WHC+13, MEC14, PBP+15, Qia12, RHS+15, RHD+16, SJTS13]. **Solutions** [Gia14, BOF+16, GCCB18, LTL+19, Mar17, MV17]. **solved** [BLAV18]. **Solving** [BDWP16, Bil11, KA17, HCK18, vDHH+14]. **Some** [MJB+11b, RHS+15, RHD+16, SGB10, VRL18]. **SOMPROF** [BBH+11]. **Songtao** [YDZ+21]. **sorbed** [LKKK+14]. **sorghum** [WTL17]. **SOSS** [KHKC+18]. **Sound** [DLH+14, PNHL14, WSS+16]. **sounds** [FSN+15]. **Source** [SBC+16a, BBC+19, LLM+13, Loe12, MLMFN+15, NKSA13, PMBM11, SBA+19, SRXP14, SWZ+12, WFM16, YDZ+21, ZH11]. **source-sink** [BBC+19, Loe12]. **sources**

[BG19, BU16a, BU16b, GBR13b, KH11, KGM12, MAC14, OLG+13, SMT19a, SMT19b, TGM+21, WBB+21, ZLZ+17a]. **South** [GCL+19, NJCF11, WCS+14, WSW+16, BSS+14, DLW+17, TL15, WTG+16, BSFR17, BEPC15, DVL11, GPA+13, OTA16, PCTW17, SGM+14, TCH+13, VASL+15]. **south-eastern** [DLW+17, TL15]. **South-to-North** [GCL+19]. **South-western** [TCH+13]. **southeast** [ADL+10, ACK+14, SSY14, WRSL11]. **Southeastern** [SCB13]. **Southern** [FRM+19, dHR18, Bre12, CHK+12, FJH15, FSS+17, HKM+18, IBD+19, JMdW+10, LAEAG12, MNEG11, NMC+14, NMS+14, OCCF17, PMS+17, SZSV12b, SRV+12, SKM+16, SGWV15, VASL+15, WTG+16, WJS+18, ZXD+13, mGZK+10, GRL18, KMP14, LAB+10, PHC10, PMTKC17, RMTM+16, WCG+11]. **southwest** [BTPG10, GSPSP15, LCZ11, PSKO16, DLvGGNC16, LYL+17]. **Southwestern** [HPS10, LBdA+19, NCK10, YZA+18]. **sown** [TDC+11]. **soy** [KAJØ19]. **soybean** [BWH13, LYD+17]. **Space** [LCDJ+12, NSIiT17, BLFS18, BRV11, BCJ+12, BPN12, GDW12, KMRW16, LF11, LLQN13, PBT+11, SP12, TMC+16, VR12, WB10, WBG+14, YJW15, YMCV21]. **space-for-time** [TMC+16]. **spaces** [NCLP10]. **spacing** [KMM+13]. **Spain** [BRV11, GSJ+10, MPKC12, MJB+11a, MGGLBIBD13, NGGFM19, RCBPMN10, AGQP+14, DLvGGNC16, FJH15, PGGMMA19, SGRAdJ17, TCH+13, ZDG+13]. **sparse** [BMSLC16, GBP+10, TB12b]. **Spartina** [CZCL18, TSP19, WJL+13]. **Sparus** [PAGCV+10]. **Spatial** [AMH16, BCC+11, BA14a, BGG+16b, BOGA14, BLOJ+19, BvBB10, CTC+18, EBA+19, GM10, GA15, HFMM+12, KMKL19, LCDJ+12, MDOJ14, NLM+19, RWS+15, RCBPMN10, SXNL18, UDNSLC+18, Wal17, ZLB14, AMG19, AWWD16, AGQP+14, AHNK13, AD18, ADF+17, AFC12, ADPS10, BKN21, BL15, BMP+19, BGMJ+12, BRS+18, BS17, CMT+11, CMM+10, CF14, CSN+19, CLH17, Cha12, CCLX17, CXW19, CIHL14, CSR15, CSS+16, DBK+13, DDR+18, DVCM+10, DBH+17, DLL18, DS12, DSBS15, DPBS10, FN15, FT16, GGSP14, GPA+13, GMLRF10, GCK+15, GPZB18, GLS10b, GNB+14, GCW+16, HM18a, HM19, HMD+16, HJ17, HSTS19, HCS+10, HCP10, HM12, IN16, JBB+11, JGB15, JGX13, KSS11, KSI14, KB18, LBE+13, LVLS14, LJ15c, LDC+16, LPV11, LL18a, LSGT13, LZZW17, LDCB21, LMBL12, MAO19, MPR13, MD16, MAM+12, MMS12, MSV+11, MJLC14, MRWN19]. **spatial** [MGB13, MP17, NYIH17, NWAR12, PMM11, PDV17, PJ15, Phi11, PBD+17, PS13, PSS16, RHO11, RWS+16, RMHE15, RKNO17, SNS+12, SMI+19, SX11, SSR16, SEHD18, SMH16, SPWR17, SCG+13, TB11, TB12a, TAT+16b, TT12, TQZ12, VSPHS15, VALC12, VZF+11, VQS+18, WLY+15, WGTH16, WCL+17, WYY+19, XZSL17, XCR+13, YHS+11, YL18, YHW+12, ZH11, ZWF18, ZF11, ZBSF17, ZWG+17, dJHMS19, dSD14, dSD18]. **spatial-temporal** [WGTH16]. **spatialised** [TSM+15]. **Spatially** [BJR16, CRB16, Che17, DVF+19, GCB+11, NPJ+17, PKB+18, STSA10, ZRC+15, ARTBB14, AS12, BSP12, BEPC15, BRMW18, BS16b, BPN12,

dSCdA19, DC10, DVL11, EEK+18, FR11, FBKS17, GdSHA10, GPZB18, GVV17, HSHF+13, HHC15, HM12, HKM+18, HQF+17, JOHW17, KR10a, LKMCW14, LYC+15a, MLG18a, MKL14, McC16, MAP+13, Mer12, MMC+19, MLAT+18, NMT+19, NTK14, QL15, RMP+18, SBA+19, SBC13, SZNL19, SEHD18, Sto10, Str15a, Str15b, TVF+10, WGT12, WFW+17, WGE+19, WHRR15, WNF+15, dMSL+16, vdKGV11].
spatially-distributed [SEHD18]. **Spatially-explicit** [CRB16, PKB+18, ZRC+15, BS16b, FBKS17, GPZB18, JOHW17, McC16, NMT+19, Sto10, vdKGV11]. **spatially-heterogeneous** [WGE+19]. **Spatio** [CdMMF16, DVCM+10, FSM19b, GCM+13, MLS+11, MVC11, MvDL+10, SSY14, CHPS17, EMH10, FS18, MPKC12, MLMFN+15, PKW+10, TJYZ11, WLY+15, ZWA19]. **spatio-dynamic** [MLMFN+15]. **Spatio-temporal** [CdMMF16, DVCM+10, FSM19b, GCM+13, MLS+11, MVC11, MvDL+10, SSY14, CHPS17, EMH10, FS18, MPKC12, PKW+10, TJYZ11, WLY+15, ZWA19]. **Spatiotemporal** [BVGR+17, GGZ+16, GHH+15, YHW19, ABD+18, ChHC12, GPCG15, LZLC13, MHMRAHHS19, RWS+15, TOQW11, YZL12, YKZZ14]. **Spatiotemporally** [CGG+18]. **spawner** [CH14]. **spawning** [CEWW18, CNI11, HSCS14, MMMGLN+18, OAPP12, PHP15, QWJL19, VVH12, YWY10, ZSG+18]. **Special** [Ano11-37, Ano11-38, Ano14-40, FKDG14, LP17, WTC+18, BFW14, BH10, GT14, GB16b, GB16d, HBF18, VMG+12]. **specialization** [BBHP13, XHC+15]. **Speciation** [OOH+12, CdOR10, Che16, RCST11]. **specie** [GSSM13, NZL13, YAGMM+14]. **Species** [AG11, BGG16a, BOW+12, HSLC+19, LWNG13, PMB+19, RRJVA13, SBR+19, SZNL19, SRTS18, SP10, SHS11, VVH12, ABB+14, AMRH19, ACE+13, AGB+13, AFC11, AFC12, AHF+13, BSW18, BSFR17, BYR18, BS15, BG19, BBJV+11, BKN21, BFPR16, BGD+16, BS16a, BCV13, BM16, BSC+15b, BFNH14, BMCG12, BJR16, CADB19, CDR+13, CR12a, CF17, CBR+16, CHvdW+10, CSN+19, CS17, CHG+15, CPS+19, CSFR15, CW11, CWA+15, CMV+16, CPAG15, CDM13, CRVS13, DAF+11, DUASLB+12, DJH10, DÖWB12, DKJH13, DG16, DFD11, DLvGGNC16, ETG+18, ERGW+11a, ERGW+11b, EBL+11, FM11, FMW+19, FHAG12, FJH15, FL11, FGPR10, FSM+19a, Flo18, FCLFB18, FT16, For18a, FAS+19, FMF12, FKK+18, FCV+12, FML+17, GWR11, GCDA16, GSQ17, GCA16, GVGZ+21, GDC11, GDC12, GEEC14, GGV10, GGV11, GGV13, GvdWBS11, GK14, GLSA+11]. **species** [GMC+19, GFW+17, GAHE11, GJK+15, dSGGBW12, GLY+15, HJWG12, HPJ15, HH12, HLL+19, HHD12, HCP10, HKM+18, HJN12, HM17, HKVD16, IPSH14, IBH+15, ISG13, JVY19, JTM+17, JZG10, JGB15, JWLS17, KDT+17, KSM+18, KAF+14, KCKdOW12, KKBZ17, KKP+17, Kos17, KSG+14, KLS+14, LV17, mLcLJ15, mLcLJ16, LM13, LJAD17, LRZ12, LBM16, LMR16, LCM11, LKG10, LCY+13, LCCL15, LJ15c, LSJG17, LHW+15, LPT+18, LLQN13, LKAL+13, LYC+15a, LJLO11, LJWN14, Loe18, MGD+12, MU17, MF16, MDH15, MG18, MHG18, MRM+17,

MMPG16, MAMNL+15, MPG18, MDG10, MBA+19, MMMCAHM21, MWD+15, NSIiT17, NA11, OOFVBC16, OT15, OCB+13, PR13, PKG16, PK16, PMRGF10, PTL14, PKD11, PGS16, PLHG14, PL10b, PSWW11, PvVC15, PFR15, PDBP11, RXSK14, RLS11, RWVK11, RKC+15, RvKM10, RKBG14, RHD+13, RDH+13, RHR+15a, RHR+15b, RGH+13]. **species** [SZSV12a, SC21, ŠK14, SSBJ12, SF10, San11, SFM+18, SW19, SvWP+15, SZ14, SA13, SRV+12, SGM+14, SJB+16, SSKJ18, SDKE18, SKL+13, SPB+17, SAKB+10, SvdR10, SDS+21, Str15a, Str15b, SP12, SNZ+19, SLD+19, TAC+14, TW18, TBA19, TLS+16, Tul14, VCE17, VRA+17, VLF+17, VBPY11, WPG15, WBB+21, YGL18, YHK+19, YHW+12, dSD14]. **species-by-species** [HJWG12]. **species-level** [FAS+19]. **species-rich** [GWR11]. **Species-specific** [AG11, SBR+19, AMRH19]. **specific** [AMRH19, AG11, Dil10, EMH10, GHST19, HGE+10, KWGW19, PWK+17, RPGA15, SBR+19, TM18, UFK+10, WS15, YCL+14, dVLS11, dAdSC15]. **Spectral** [GRL18, Ban11]. **Spectral-temporal** [GRL18]. **spectrum** [GPM16c, ZCR16]. **Speed** [Jör11a, GDC11, RHO11]. **sperm** [CMA+13]. **Sphagnum** [HZT+13]. **sphenanthera** [LGDW12]. **Spherical** [BLH10, Mat17]. **spider** [Joh10]. **spill** [KWGG19]. **spillover** [BG15, CHvdW+10]. **Spin** [SYL+13]. **Spin-up** [SYL+13]. **spined** [MBM+18]. **spirochaetes** [WGSR19]. **splines** [CSOS17]. **splitnose** [GC11]. **splitting** [CH15]. **sponge** [GRYM11]. **spontaneous** [RHQ+16]. **SPOT** [HS11]. **spots** [BSCG10]. **spotted** [TPG14, LAR+16]. **Spotted-Wing** [LAR+16]. **spp** [AS11, AOW13, PPZ+17, PMF+13]. **sprat** [FAT+15b, Hei11, JOHW17]. **Sprattus** [FAT+15b]. **sprawl** [PTA+12]. **spray** [DKM+14]. **spraying** [SDSH15]. **Spread** [FMA+12, ABR12a, ADF+17, CMSR19, DPPI14, DSBS15, FHG12, GPJL15, LSR16, MBLC14, MSKS13, MF16, MRC19, MMGK15, MWD+15, PKD11, SM10, SDS+21, SRT16, SH18, ZHLZ17]. **spreading** [SM12]. **Spreng** [MAO19]. **spring** [CAMNN16, DWP16, qHLlZ+16, JG10, JX17, LAC10, MGWW13, PVBC14, WBS13, ZPZ+15]. **Springer** [Wei19]. **springtails** [MAP+13]. **Spruce** [Gar17, ABK+16, CAC+16, DBG14b, DBG14a, mGZK+10, HJS+16, HOKH18, HOŠ+12, KPT11, KPTC14, KMP14, MVC11, MCG19, NPH+17, OJ10, TNA+17, TVF+10]. **Squares** [IBD+19]. **squeeze** [HWE+18]. **squid** [ZBMBDU+17]. **squirrel** [Hat14, JWLS17]. **squirrels** [TDF+19]. **SRTM** [MAO19]. **SRTM-derived** [MAO19]. **St.** [CNI11, CLD+17, MDVG+15]. **Stability** [MW12, PP16, BP19, BFP+18, BBHP13, BH13b, CD17, CD16, HDL+16, HWH+18, KCC16, MBSF14, SU15, VCD+17, ZFZ+14, ZYKS15, dAdSC15]. **stabilization** [MWM+16]. **stabilize** [BGP11]. **Stable** [Ret12, DLH+14, DCZ+15, GVV17, KK11, MDL+10, MLMH18, PLR+13, Vav12]. **stacked** [GGV13]. **stage** [AHS+17, ASS14, CCSF11, CCF13a, EPA+10b, MCMT+16, Oga11, SFL+19]. **stage-structured** [AHS+17, EPA+10b, SFL+19]. **stages** [DdSCG11, GCM+13, JNHF18, NBSGW19, RWvDM15, SM12, SU15, VVH12].

stakeholder [GCCJ12, MJLC14, XZCL16, vGKB10]. **stakeholder-driven** [MJLC14]. **stakeholders** [BRW+12]. **Stamou** [Pat10]. **STAMP** [MTL+10]. **stand** [ACDC17, BHC+15, CADB19, CN11, FH11, For14, FT16, LSA+19, Oga11, Oga17, RGH+13, TVF+10, TKH17, TGB+17, ZXD+13]. **stand-level** [CN11, For14]. **standard** [GHWG+14, SSKJ18]. **standardisation** [PM16]. **stands** [ACDC17, Gar17, mGZK+10, GCK+15, KLS+14, MPKC12, Oga17, Oga18, RLS11, SKK+13, VALC12]. **starch** [FS14b]. **starting** [RDD+18]. **starvation** [MCH15]. **State** [BCJ+12, HGLZ13, RDR+13, WBC+12, AYASR+17, AB10, BLFS18, BCP16, CCF13b, CpW16, CGAB17, JTB+19, KP13, LVV+15, MSCM18, NF11, NCLP10, PBT+11, Phi11, RHO+12, RDH+13, RHS+16, SHBG10, SA16, SP12, WB10, Wan19, WCG+11]. **state-and-transition** [KP13, Phi11, SHBG10]. **State-dependent** [WBC+12, MSCM18, WCG+11]. **state-of-the-art** [CCF13b]. **State-space** [BCJ+12, BLFS18, PBT+11, SP12, WB10]. **States** [SHB+11a, BS19, GRYM11, GVV17, LF11, Löp11, MDJ+11, MJL+13, MJL+14, McC16, PGA+11, RCP17, TB12b, CRD+16, Gli14, HSR+15, LLT+14, LLT+17, RWFD13, RTE+15, SHC+15, SBF15, SWR+16, SB15]. **static** [OGG+16, VRC17]. **stationarity** [RDD+18]. **stationary** [RHS+16, RDR+17, RV15]. **stations** [CCL+13]. **Statistical** [MGS15, BTM+10, BBH+17, LGY10, LSL10, MROGVR12, NYIH17, SMI+19, VEMS12, WLC+19, ZDL+17]. **Statistical-thermodynamics** [MGS15]. **statistics** [BLAV18, OGOWW16, SBVA+13]. **status** [AHS14, ABL+13, MHC16, SKM+16, WSS+16]. **StDM** [SBC13]. **Steady** [Löp11, GRYM11]. **steel** [mNkGyT+17]. **steelhead** [MSB+17]. **steepest** [TOHT14]. **steepness** [HLK+12]. **Stefano** [FBDR17]. **step** [OGOWW16]. **Stephen** [Wei19]. **steppe** [CSS+19, PVBC14, SAW+11, ZJL+16]. **steppe-meadow** [CSS+19]. **steps** [SFvdM+17]. **stepwise** [SZSV13]. **sterile** [PvVC13]. **Sterna** [GQNMR18, JJKJ11]. **Sternula** [KK13]. **Steud.** [ESA12]. **stickleback** [MBM+18]. **stimuli** [KNU+15]. **stitch** [SP11]. **Stochastic** [CJLV11, DSJ19, HFSL14, MGW+21, PMLL11, BEPC15, BP10, CMM+10, CMD12, EAB11, EC10, GDT+14, JBB+11, JM15, Ken19, LSA+19, LBWW14, LHZN11, LJLO11, MBG17, MMC11, MMGK15, RNS+19, RGRMRR18, TT12, TL15, vDHH+14, SBC13]. **stochasticity** [BRF+11, CDG15, ECO+14, MMPG16, RHW17, SF10, San19]. **stochasticized** [WAGM17]. **stock** [BS13, CAL13, HLK+12, Lem16, MTZ+10, MM19, OLG+13, RAB+10, SP12, WKZ+19, YYH19]. **stock-recruitment** [Lem16, SP12]. **stock-recruitment-age-structured** [CAL13]. **Stockholm** [WFM16]. **Stocking** [FMG+16, LJ15b, RVNB11]. **stocks** [DR17, HMS+10, LBC+15, MLB+16, MCG19, Nei11, SHM+14, TLL+15, ZCR16]. **stoichiometric** [ELPK12, PHP+14, Pea15, Vav12]. **stoichiometry** [LWGH13, WSE12, WLR18]. **stomata** [MEC14]. **stomatal** [HSD+15, MTL+10, MEC14]. **stomatopods** [ADL+10]. **stone** [CMT+11, MPKC12]. **stonefly** [CDR+13]. **stop** [CGB+13]. **stopover** [SSD+17]. **storage**

[ACN14, CT16, JDT+17, TTCH+14, Wan19, WPB14, ZFT+10]. **Storm** [YBA+16, LJBS12, YYH19]. **stormwater** [LCP15, MXC13]. **stranding** [YDT+13]. **strategic** [MJLC14]. **strategies** [Ana17, BS13, BPB+18, BBL11b, CHTC11, CTB+12, CB15, CESC19, EZ14, FMG+16, FLA19, GBB13, HGBA+13, IWW12, JBE+15, Joh10, Kal19, KPLS15, KKI+14, LGMLD19, LJ15b, LLL19, LL18b, LB15, MKH+17, MFB17, MvDL+10, PKB+18, PP19, PJ17, PRP17, PDV17, PRH17, RVL+18, RAdA12, RMR+16, RvKM10, SMH+12, Str15a, Str15b, TBJ+15, TL15, XLS11]. **strategy** [CGLA10, ESP+17, Flo18, GTC16, GHS+16b, HBT+18, IS13, ISG13, LLH+13, MSM+17, MCN16, RPP+15, SLRC19, UDP17]. **stratification** [KMKL19, RWH+14]. **stratified** [CIHL14, FMF12, JTB+19, RGRMRR18, STSA10]. **stratified-population** [RGRMRR18]. **Strayer** [Jør14b]. **streak** [LBR+17]. **streaked** [HSTS19]. **stream** [BA14a, CL10, CGdCCPCPM14, DPPI14, DKJH13, DRS+16, GPCG15, GWZ+15, HKW+18, HKVR13, JBW+17, KC18, KSG+14, LW14, MGCL17, Pen11, PGATS13, SAR11, WR12, ZLJM17b, ZLJM17a]. **stream-resident** [MGCL17]. **streambed** [KPSC10]. **streamflow** [GTC16, LC11, MMRS+19, YYL13]. **streams** [ARTBB14, CDR+13, JNC+11, MNK+21, MR17, MJK+17]. **strength** [AGJ+12, BSW18, HLL+19, Md18, YZ16, ZML+12]. **strengthen** [SRTS18]. **strengths** [WFM16]. **stress** [BFA11, BCB+11, BEBA19, CBCB17, DSS11, FMG+16, KNU+15, KS17a, KS17b, LVV+15, MEC14, RMvW13, SKTG11, SLZ+13, WFSH15, YqWB+15]. **stressors** [BR16, IT17, JBW+17, KRCVF16, MTJF11b, Rai13]. **strict** [WSE12, WLR18]. **string** [RDD+17]. **strip** [SRXP14]. **striped** [MLS+11]. **striped-bass** [MLS+11]. **strong** [BRF+11, DJH10]. **strongest** [HKM+18]. **Structural** [CL10, CJR+16, GB16d, AAFH15, BPR+11, BBL+17, KCLL14, KJH+13, LDO+18, LYCZ11, NOOM+16, PW10a, SGKR10, VPC+14, Wal15, Wil11a, XWC+11, ZLC13]. **structurally** [ZGJ10]. **Structure** [CR12a, LJCG15, ABC+14, AYASR+17, AD18, Ant14, BVC+18, BSASSJ+13, BLD+10a, BND19, BC11, BPGSS+18, ČTT+12, CBR+16, CGGL16, CBO16, CPS+14, DA19, DH12, DCZ+15, FE14b, FSML11, FGPR10, FAC+19a, FNR11, Fuj16, GYL+13, HBS+16a, HKG+17, HWH+18, IWW12, IKL14, JB11, JHH+12, Kal19, KGS11, KP13, KvOP10, KHL+16, KLS+14, LBH+15, LBD10, LKDD15, LJ10, LLFL12, MMD+17, MRB14, MK14, MJGC13, NCEGB16, NWAR11, NWAR12, NJCF11, OBC+21, Pec12, PP12, Ret12, RNS+19, RAR15, RMvW13, SCHQA16, SLW+14, SMH16, SS11, SGKR10, TKW17, TVI+13, TCH+13, TS11, VC17a, XC14, XKI+11, YHW+12, ZLLC13, ZLZ17c]. **Structure-dynamic** [LJCG15]. **structured** [AAME11, AHS+17, BNC+18, dÁGP14, CAL13, CC12, CRUF13, dSCdA19, EPA+10b, GS19a, KMS+12, KMS+13, LKLK15, Lem16, Log16, MM19, NMdR16, NTK14, RPM13, SBA+19, SFL+19, TKP14, VHDM17, WAGM17]. **structures** [DBH+17, LAD11, PÓF+18, SVD+13]. **structuring** [RAdA12]. **Stubai** [FCFT16]. **stubbornness** [ZYXT18]. **students** [Mob18]. **studied**

[AYASR+17]. **studies** [ABB+14, BCD12, CL15a, GDDFT16, HKlL14, JTM+17, LCMG18, SDD+13, TVT12, VG19, YC11, YHJ+17]. **Study** [AAA13, Ano12a, HZSH17, LYC+15b, WLC+19, AGQP+14, ABS17, Ana17, AHM+16b, ABD14, BVC+18, BCB+11, BVJE18, BH17, BEPC15, BLD10b, BC11, BEBA19, BG11, CVV+13, CZC+15, CBGK15, CWLL15, CL15b, CpW16, CTC+18, CGEdM12, CRTS15, CMSPJ11, CBB+10, CWA+15, DHC14, DPBK10, DPvBvA11, DKJH13, DSW+17, DLD+11, EGMW12, F.11, FS14a, FKH+15, FCZ13, FCH+17, FP17, FCFT16, Fre16, GWHL15, GZS+18, GDT+14, GL10, GS19b, GB15, GBR13b, HRSKW15, HBR19, HFSL14, HJ17, HM18b, HKVD16, HYL+17, JBE+15, JMW11, JJYM19, JHT+14, JGX13, KSSA13, KM12b, KZR+13, KHJ+19, KAC+12a, KAC+12b, KCKdOW12, KMKL19, KL12, LDG14, LSH15, LY16, LHL+17, LLL+10, LYSW15, LLZ+16, LHL18, LBW18, LWTZ18, LDM15b, LCP14, LBS+14, LYC+15a, LML17, LVV+15, LMBL12, LGDW12, MTZ+10, MLY+19, MLG18a, MAM+12, MAC14, MRD+12, MRZU14, MCG19, MRP+11, MB14]. **study** [MGSB11, MMVAHMC16, MOM+11, Mur13, NCMF10, Nei11, NXZ18, NMA+19, NGGFM19, OHS+17, Oga11, OTA16, PLR+13, PMS+17, PPB+18, PFA+16, Pen11, PGKG12, PBD+17, PLS11, PGGMMA19, PGA+11, RBM+17, RSCS19, SMC11, SBCB13, SSV+12, SJS+13, SEHD18, SK11, Sin17, SGRAdJ17, SDKE18, SAKB+10, SGP18, SSM+13, SSW+18, SGKR10, TPL+15, TLL+15, THJ+12, TPG14, TDH12, TLW+14, TOQW11, TYEH10, TBL+15, URR+17, VVH12, WALCY12, WSW+13, WYHC15, WFN+16, WØ15, WX11, XCR+13, YSH+10, YYQ11, YJW15, YLHZ14, YBA+16, ZBAY14, ZLY16, ZYFL10, ZFT+10, ZLC13, ZKR+13, ZLF14, ZLF+15, ZQC15, ZZF15, ZLFZ16, ZZJ+16, ZDL+17, ZZLZ14, ZYZ17, ZMH19, dSdCF10]. **sturgeon** [DHC16, HMP+19b, WAGM17, YWY10]. **STWIR** [GPD+13]. **styles** [BRW+12]. **sub** [BN10, GPK+13, KUK11, ZNS+18]. **sub-district** [KUK11]. **sub-estuary** [BN10]. **sub-soil** [GPK+13]. **sub-tropical** [ZNS+18]. **subalpine** [ACM15, KKP+17]. **subarctic** [KSAS12]. **subject** [SP12]. **subjected** [PICR13]. **subjects** [RDV+17]. **submerged** [GSQ17, GMLRF10, JDGJ13, LHZ10, McC16, VAO+17, XYCZ13]. **submodels** [LM16]. **suboptimal** [BM10]. **subpopulation** [CD15]. **subset** [TTL+18]. **subsidies** [BEZ19, EZ14, PKT15]. **subsidy** [BKV17]. **Subspaces** [CVS+13]. **subspecies** [AR11]. **substantial** [NZL13]. **subsystem** [TM14]. **subtidal** [JGB15, WLR+11]. **subtropical** [DSS11, DCZ+15, HSVL12, MDL+10, WQD+13, WWC+18, WZD+14, WEJ11]. **suburban** [WR13b]. **success** [CH14, CGM+14, DPvBvA11, JMdW+10, LSH15, Rin14, SK10]. **succession** [DVF+19, FAMD+12, GRL18, HSVL12, KCF+13, KGD14, Lin15a, LM19, LJCG15, LRB12, LHLW15, MPT+11, MRR+14, Ske13, TMC+16, ZYZ17]. **successional** [DVF+19, HBL18, PHC10, PGA+11]. **such** [LM13]. **Sucre** [RDR+13]. **SUCROS_LL** [GLS+17]. **sugar** [BDL+13, BDL+14]. **sugarcane** [PvVC13]. **Sugeno** [FDM+11]. **suggest** [PJ17]. **suggested** [Til14]. **suggests**

[Bin17, TZD+15]. **Suitability** [LA11, AMM+14, BKP10, Bar11, BBGJ13, BOW+12, BCD12, CKMD14, DKJH13, FHG12, FDM+11, GCDA16, HPJ15, KMP14, LCCL15, LML17, LGDW12, MSV+11, NiSK21, RXSK14, SK11, TRP12, VFFP16, WL13, YXD+18, ZPNM13]. **suitability-based** [BBGJ13]. **suitable** [HWE+18, KC18, LYSW15, SMSAN+14]. **suite** [GdC14, SVD+13, SPP18]. **sulfide** [GS10]. **sulfur** [GZS+18, WB17]. **sulphuratus** [LIM+16]. **Sum** [RV13]. **summary** [GT14]. **summer** [MBD+18]. **Summit** [WLF+16]. **sun** [FvBM+11]. **sunbleak** [BGC10]. **Sundarban** [MRG13a, San17]. **Sundarbans** [DCMS18]. **sunflower** [KCLL14]. **SUNLAB** [KCLL14]. **sunshine** [JGX13]. **superba** [GJK+15, MRCW10]. **superior** [MdlP15, VBPY11, MBUM12, MYJ+14, SGWV15]. **supersaturated** [YFL+18]. **supervised** [ASL13, CGP12, FIG+10]. **supplementary** [HKG+17, PKT15]. **supply** [AS14, CEC10, GAP+19, HRSKW15, HKN17, JAH+10, LL18b, SGAS14, XYTS19, YY13]. **support** [BGG16a, CGL15, DWD19, GAF+14, HRSKW15, KRE+18, KK15a, KKI+14, LWKS10, MMVAHMC16, PMB+19, SZSV12b, SZVV10, SWGC16, TAT+16b, WYHC15, vGKB10]. **supporting** [ABC+17]. **suppress** [FTYI13]. **suppression** [PvVC15, YHW19, ZYXT18]. **Surface** [YFC+11, YDL+15, BCC+11, BLRN15, Gav15, GPCG15, GANB11, JZG10, LLM+13, LZ10, MBSW12, MJÁ+12, OSS13, Pie10b, Pie10a, RSC12, RSC13, SMC11, SH14, SAI10, SCG+16, WFA10, WBC+12, WBHM11, ZWJ+12, Jör11a]. **surfaces** [LMGM11]. **surplus** [RL15]. **Surrogate** [NNP19]. **Surrogate-based** [NNP19]. **surrounded** [IBD+19]. **surrounding** [ZJL+14]. **surveillance** [GKKW10]. **survey** [Bin17, MYJ+14, Tul14]. **surveys** [CMV+16, HOŠ+12, PC17, Pér18]. **survival** [BHHM10, CHG+15, CN10b, Dil10, GCvDM12, GCM+13, KR14, LCC+14, MRCW10, OMDP11, RP11, SBCB13, SF10, SFvB10, THJ+12, YL17]. **survive** [dSJHG10]. **susceptibility** [MBLC14]. **susceptible** [HS11]. **suspended** [MTPC13, Sin17, YCF15]. **suspension** [BPK+16]. **SUSTAIN** [GWHL15]. **Sustainability** [DH18, Har11, IGR+18, MFESBG+13, PSWM+10, PBL+15, WAM13, vGKB10, Ano12t, ABC+17, BGMFES15, BBA12, BU11a, DPR10, FB15, GZVU14, GAB12, GSA+19, GWZ+15, KSSA13, KR10b, LL17, LHZN11, LY11, LSP+10, LYCZ13, RAB+10, SSV+12, SJS+13, WHH+18, YKZZ14, ZHC+16, dSdCF10]. **Sustainable** [BAA+14, DMB+18, DSD13, Fat14, GK14, CGL15, CHCC15, Che15a, EMH10, GB15, KG13, KRE+18, LG10, LKG10, LG12, LLP17, LP17, PK16, SKM+16, YYQ11, ZF19]. **Sustained** [GvdWBS11]. **sustaining** [LWL+17a, RE10, SGB10]. **sustains** [MSG+13]. **suzukii** [LAR+16]. **Sven** [Fat16b]. **SVM** [PMS11]. **SVM-based** [PMS11]. **SVMs** [SZSV12b]. **SW** [RML+13, GCK+15, RCBPMN10]. **swallowtail** [PZM13]. **swamp** [Ano12s, HR11, MCW13]. **swamp-dominated** [Ano12s, MCW13]. **swarm** [LOLA13, PD12]. **SWAT** [KJMA11, KPSC10, MCP16, NKSA13, PMBM11, SWZ+12, SV13, YDZ+21, ZCYL15]. **SWAT-based** [SWZ+12]. **Sweden**

[NPP+18, JL18, JAKJ10, LJBS12, OBLJ13, PMS+17, SB15, WFM16]. **Swedish** [OKS+11, OLG+13, RJH+10, YBA+16, YZA+18, ZBAY14]. **sweet** [PGGMMA19]. **swimming** [APWT15, Wil11b]. **Swiss** [KFvSH15, MLK+11, MBW14, PGR+16]. **Switching** [WN17]. **Switzerland** [FRM+19, SB15]. **Sylt** [FSB13]. **sylvatic** [LBR16]. **sylvaticus** [LSGT13]. **sylvestris** [ASV19, THJ+12, UDP17]. **symbiosis** [DLZ+17, ZZF15]. **symbiotic** [CLW+19, GBR13b]. **symmetric** [dS18]. **symposia** [LMY+11, LYP+11]. **Symposium** [FKDG14]. **Syncerus** [MMS12]. **synchrony** [LS13, Mat13]. **syndrome** [CESC19, RTE+15]. **synergies** [GRRU15, HDL+16, MWML13b]. **Synergism** [ZLF14]. **synoptic** [WBG+14]. **syntax** [YJW15]. **Synthesis** [BCT15, GB16d, HKW+18, LMY+11, BLOJ+19, BCUF16, BCDU16, FB15, HM17, HPW+12, MYJ+14, RLB+12, YKZZ14]. **Synthesizing** [Mul11, SFM+18]. **synthetic** [FD19]. **syntrophic** [VRC17]. **Syrphidae** [KTV+15]. **Sys** [CDT10]. **System** [Ano12a, CLBSG11, DCMS18, FCZ13, GEZ+13, KAC+12a, KAC+12b, KS17a, KS17b, MXC13, PVM12, PVM13, PK12, VGR+11, WSW+16, BSFR17, BPK+12, CN10a, CC10, CHCC15, CGGL16, CCF13b, CpW16, CLW+19, CAY+10, DFW+18, FB15, FB13, FDM+11, GHS+16a, GvdWBS11, GZVU14, GK14, GOSH+12, GCR18, HGSJ15, HWH+18, IS13, JA15a, JMW11, JBW+17, JSW+13, KSI14, KL10, KTM+16, KHHN17, KJS13, LDM15a, LT15, LWKS10, LDL12, LYCZ11, LOLA13, LFH+15, LPD14, LGDW12, MPM+15, MKSL+17, MTJF11a, MTJF11b, MWM+16, MRG13b, MGW+21, NSIiT17, OCCF17, PBB+14, RBM+17, RKC+15, RP11, SJS+13, SSD+17, SBRD10, SG11a, SSM+13, SGBG19, SXZ+15, TKP14, TAT+16b, THBF+17, WAS+16, WZWL10, WYY+19, WCS+14, XCL+11, YLC13, YM21, YSA+14, ZYFL10, ZLF+11, ZLC13, ZLZS14, ZLF14, ZZF15, ZZJ+16, ZWW+18, ZCY+19, ZHCX15, ZMH19, AAO10]. **System-of-Systems** [PK12]. **System-theoretical** [KS17a, KS17b]. **system-wide** [BPK+12]. **Systematic** [YC11, AWL+13, MRTW18]. **systemic** [FLLG13]. **Systems** [ACKS13, BFW14, HKW+18, HD14, Pat14a, Pat16b, PF18, PK12, TM14, Wei19, ALC19, AG15, An12, ALC12, Ana17, AD18, ABAA21, BGMFES15, BUB+12, BFP+18, BBHP13, BPR+11, BRM+14, BLD10b, Bev15, BT16, BBC+19, BK13, CH12, CH19, CBB19, CK12, DG11, Dol10, DH18, Fai10, FR11, Fat14, FBU14, GPM+16a, GSA+19, GBP+10, GPP+19, HBF18, HF14, Ji15, JZG10, JNF16, KG13, Kei12, KHHN17, KBMM15, LL17, LMT13, LdMS+16, LY11, LTL+13, LLW+15, LHH12, LCDJ+12, MG16, MDJ+11, MKSL+17, Mob18, MCPB13, MCB14, MCPB15, Nie16, OC15, OBC+21, PTML14, Pat10, Pat16a, PRP17, PJ15, PFSF14, PDBP11, Rau11, Rem11, RSDP+12, RE10, SvBH+14, SGBD10, SJS+13, SXNL18, SVL12, SZVV10, SK15, SCG+13, TOQW11, TA11, UAB+11, URJ10, VSB13, VBS14, WAS+16, WALCY12]. **systems** [WAM13, WTL17, WØ15, ZZL+19, ZHV14, dS18]. **systems-level** [SJS+13].

T. [PFP+16]. **Tabasco** [ZRCNLI+15]. **Table** [SCH+17, DBG14b, GWK+12, LLCR11, XLS11]. **table-form** [LLCR11]. **tables** [KPS17, LHL18]. **tackle** [PGG14]. **tactics** [DHHB15]. **tadpole** [POS+19]. **tag** [BLW+17]. **Taihu** [GSQ17, HG17, JLZ+18, WJF+11, HFH+19, Hu16, QCB+11, SXZ+15, ZRC+15]. **tailed** [LGMLD19, WTG+16, WR13b]. **tailing** [WWYO17, WWYO18]. **taint** [HD14, HD16]. **Taiwan** [CLCC11]. **Taiyuan** [LLZ12]. **Takagi** [FDM+11]. **Taking** [Ji15]. **tale** [Tul14]. **Tangled** [JJS10]. **tank** [LCTH12]. **tannin** [SWS16]. **tannin-binding** [SWS16]. **Tanzania** [MWM+16]. **Tapirus** [GGTP+17]. **target** [FSM+19a, MKL14, Md18, MHRB19, RSP+17]. **targeting** [BvHR+15, DVCM+10, RPP+15]. **targets** [LM12]. **task** [BHHM10]. **Tasmanian** [WNT+13]. **taste** [HD14, HD16]. **Taurus** [KAF+14]. **tawa** [MP17]. **taxa** [CL12b, For18b]. **taxocene** [RDR+17]. **taxonomic** [KEM+16, LKDD15]. **Taylor** [JDZC14, SC18, SSR16]. **TD-model** [SBDS13]. **Teaching** [Mob18, HBF18, KS18]. **teal** [KK12a]. **technique** [BWA17, HYG14, HSK17, LSA+19, PvVC13]. **techniques** [AKvO+10, BKMK10, CBB+10, FLLB11, GLY+15, LDM15b, NGGFM19, RGHS11]. **Technological** [DPR10, FG11, UAB+11, UB12]. **technologies** [CAY+10]. **teleconnect** [CLHH19]. **telemetry** [BMSLC16, BLW+17, FBH+14, WBG+14]. **Teleostei** [dABLBAdOR17]. **tell** [PS13]. **temperate** [Ant14, AOD+13, BFH14, BPGSS+18, CVV+13, FCV+12, GBG+15, JSB+14, KW18, LNB17, LCFD19, LBdA+19, LAC10, LVV+15, LMBL12, MJL+13, MJL+14, PWBG16, RWH+14, RKC+15, SHM+17, TTCH+14, UKI+11, WGA+11, WGA+12, WJvdL+13, LLT+17]. **Temperature** [ATL18, KMS+12, KMS+13, MBBA17, AHS14, ACCM16, AML13, AKLB19, BMR+18, BTS19, BHHM10, BLRN15, CSR15, CGdCCPCPM14, DPvBvA11, DS21, DFF17, FTK+14, FP17, FMG+16, FBA+11, FCV+12, FML+17, GBP+16, GLR+19, GPCG15, HMP+19b, KDMPC10, KSZW16, KBS+15, KKP+17, KKK+19, LYD+17, LBW18, LBC14, MMRS+19, NiSK21, PL10a, PSBH16, RPA12, SSC15, SM14, VCSSC12, VJR+16, VPS10, WFA10, WV12, WFN+16, WJK11, ZML+12, ZZZW15]. **temperature-** [FBA+11]. **temperature-based** [FCV+12]. **Temperature-dependent** [KMS+12, KMS+13, MBBA17, DFF17, FML+17, KDMPC10]. **temperature-driven** [FTK+14, PSBH16]. **Temperature-influenced** [ATL18]. **temperature-mediated** [BMR+18]. **temperature-radiation** [ZML+12]. **temperatures** [BCP15, BM10, MOMC17, WBHM11]. **template** [HCM+18]. **Templeton** [Kat11]. **Temporal** [BSFR17, PKD11, RPGA15, WSZT10, WYY+19, BA14a, BRS+18, CMT+11, CHPS17, CdMMF16, CSN+19, Che15b, CSS+16, DBK+13, DVCM+10, EMH10, FMW+19, FT16, FSM19b, FS18, GRL18, GCM+13, HGPF15, HM12, LSJG17, LS18, LPV11, LZZW17, MPKC12, MAM+12, MLS+11, MVC11, MvDL+10, MGB13, MSR+14, MAMNL+15, PDV17, PK14, PAGCV+10, PKW+10, PSS16, SC18, SAR11, SSY14, SML12, SLLW15,

SED15, SCG+13, TAC+14, TJYZ11, WLY+15, WGTH16, YSA+14, YL18, ZBMC14, ZLB14, ZWA19, ZF11, ZBSF17, ZR19]. **Temporal-spatial** [WYY+19]. **temporally** [WGE+19]. **temporally-variable** [WGE+19]. **temporary** [GEB10, YDT+13]. **Ten** [AW15]. **tendency** [ZLZS14]. **Tennenbaum** [LTL15]. **tent** [BFA11]. **Tenualosa** [BAA+14, HSCS14]. **Term** [Ano12a, AB13, ABC+17, BYR18, BUB+12, BLB+17, BSS+14, CRVS13, DR17, FB15, GV11, GCB+11, HOŠ+12, KAC+12a, KAC+12b, LBZA19, LDO+18, LAB+10, LBdA+19, MCG19, MP17, Och10, OBC+21, PWBG16, Pen11, PGKG12, PGZ+19, RUSL19, RTE+15, SVL12, TGM+21, VG19, VASL+15, WP14, YSA+14, ZJM+11]. **terminology** [AVG14]. **Tern** [JJKJ11, KK13]. **terns** [GQNMR18]. **Terraced** [BC11]. **terrain** [BS17, TKN14]. **Terrarana** [PMF+13]. **Terrestrial** [HPW+12, BBL+17, HKVR13, HBA16a, JWX18, LLY+13, LXS+16, MV11, MLH+17, OC15, PD15, San17, SHC+15, SLMS14, TLL+15, TRE+12, UDNSLC+18, Wan19, YFC+11, ZZFH15, ZZLZ14, ZJP+11]. **terrestris** [GGTP+17]. **territorial** [LB15, MCB14]. **territories** [VC17b]. **territory** [CLBG15, RAR15]. **Test** [DHC16, AHM+16b, FAPM12, Gav15, LWKS10, MBUM12, PGR+16, PLHG14, WR18]. **test-bed** [MBUM12]. **testable** [LJ15a]. **tested** [For18b, SG11a]. **Testing** [Ano12a, FLLG13, GAV+11, HM10, LRB12, MHTC15, MSR+14, NBK+11, RGHS11, SGBD10, SSK14, AAJB21, AD12, GMS11, GAF+14, HKW+18, HHvO+17, KK13, KJMA11, KAC+12a, KAC+12b, KCB+17, PWBG16, THO10b, VHM+17, MPT+11]. **Tetranychidae** [dOMZ13]. **Tetranychus** [dOMZ13]. **Tetrax** [SSQ+10]. **Texas** [GRB12, KM12b, WTG+16]. **Thailand** [LDP14]. **their** [BDL+14, BSFR17, BLD10b, BF11, BV15, BvHR+15, CAMNN16, CLDRJ18, CGP12, DF13, FH11, FCA18, FKK+18, GLR+19, GHS+10, Hu16, IWW12, KBC+12, MCT10, Mar17, OLG+13, RRH+19, SBR+19, SCHGM16, Sil11, STD15, Tie16, WAS+16, WSZT10, WYY+19, WNF+15, XTLM15]. **thematic** [Ano11-38, Jør10a]. **theme** [ZNS+18]. **theorem** [MRES17]. **theoretic** [Che10, CB15, GKL18, MRM16, RBRK16, URR+17]. **Theoretical** [LJ15a, Oga11, VGR+11, VWTA16, DMH17, HB15, HWL17, KS17a, KS17b, LR16, MPT+11, MN12, RvS16, RHR+15c, YLW14, YL18]. **Theories** [BCT15, MTA19, SBVA+13]. **Theory** [KJMA11, KB11, NSN17, AG15, AG14, AAW+15, BMF+11a, BMF+11b, BR16, BGG16a, Che16, CPAG15, DMDJ13, ETG+18, Els10, For18b, FPG11, GB16c, HLL+19, HB12, IKH+11, Jen12, KA17, KP13, Log13b, LBGM19, MPT+11, MCB14, OBSL15, Pat16a, PHP+14, POB18, PMRGF10, PZM13, PVB16, RHQ+16, TLW+14, VBS14, WCF+16, WLZC11, XZZ+13, YXZ+21, YZLX14, ZH13]. **there** [PMH17]. **thermal** [FSV+12, HSR+15, MPT+11, RMvW13, SBRD10, ZZZW15]. **thermal-stress** [RMvW13]. **Thermodynamic** [LHH12, Lin15a, AG15, Ano12t, ASV19, CZCL18, Cho13, HJ10a, LYCZ13, MCT10, PHP+14, PSSH11, PSKO16, WLC+19, WWYO17]. **thermodynamic-based** [Ano12t, LYCZ13]. **Thermodynamics** [CPJ+13, HWH+18, MGS15, Tie11]. **Thermodynamics-based** [CPJ+13].

Thermostatistical [RHR+15b, RDR+17]. **thibetanus** [DFK+11]. **think** [PMH17]. **Thinking** [Gia14, Jag14, Ana17, Fat14, Mob18]. **thinning** [CN11, MHL+19, Oga17, Oga18, POB18, RLS11, WPZ+11]. **Third** [Kat11]. **thistle** [HCW+17]. **Thomas** [CNI11]. **thompsoni** [HPGM18]. **Thorns** [CDK+17]. **thought** [RDV+17]. **threat** [MCT10]. **threatened** [BBRJ15, GKF+14, dSGGBW12, KKP+17, MSB+17, PTA+12, TLS+16, WZL+16]. **Three** [DBK+13, GDC+19, LZYH19, MBSF14, BTM+10, BLH10, BSH+10, CVV+13, FJH15, Hal11, HCM+15, HFB+11, LCY+13, MBM+18, MH10, UFK+10, WQD+13, WØ15, XCR+13, YZG16, YFC+11, CMLY19, MLW+15, SRXP14]. **three-component** [BSH+10]. **Three-dimensional** [DBK+13, LZYH19, MBSF14, BLH10, HFB+11, MH10, WQD+13, XCR+13, YZG16]. **three-scale** [HCM+15]. **three-spined** [MBM+18]. **threshold** [CDR+13, CD16, LKAY15, NA11, WLR18]. **threshold-based** [LKAY15]. **thresholds** [GK14, LLH+13, LMGM11, NZL13, ROC+13, VCE17]. **throated** [HBT+18, MFB17]. **throughflow** [FSB13]. **throughflows** [TWP+14]. **Thunnus** [PAGCV+10]. **Thymallus** [PGS16]. **thynnus** [PAGCV+10]. **Tianjin** [HLW15, HZZ+18, ZLZ17b, NGWZ16, YLHZ14]. **Tibet** [SLZ+17]. **Tibetan** [CBO16, SCG+16, CSS+19, GYL+15]. **Tick** [WGTH16, BDG+14, HM18a, HM19, HMA10a, LVLS14, WTG+16]. **Tick-borne** [WGTH16]. **ticks** [WGT12, WGTH16]. **tidal** [CN10a, CTNH13, COK+11, CDG15, GL10, LZW+17, SQWS19, ZJL+14, ZZZW15]. **tide** [DSW+17]. **tides** [ZW10]. **Tiger** [TWS+11, CLBG15, KSZW16]. **tigers** [LKG+17]. **tilapia** [XCL+11]. **tillage** [LSM19]. **tilt** [Md18]. **timber** [DLL18, KCKdOW12, MWML13b, PDD+18]. **Time** [BLH10, LL17, MRES17, SBA+13, WPB14, Ano17a, ACN14, BSH17, BLD10b, Bus17, CMSR19, CC10, CRA+11, CGAB17, dSCdA19, DSK+11, Dil10, GLT10, GDW12, HB13, HD16, HBL18, JA15a, KK15a, KMMS17, LJR14, LF11, LLTQ14, LLTQ15, MPR13, MGB13, NS15, RBM+17, ROC+13, RWP11, SCHGM16, SBC+11, SP11, TL10, TMC+16, VPS10, WQD+13, WXB10, ZW12, ZZT13, ZSG+18]. **Time-delayed** [LL17]. **Time-dependent** [SBA+13, HD16]. **time-dynamic** [BSH17, LJR14]. **time-lags** [ROC+13]. **time-scaling** [TL10]. **time-series** [RWP11]. **timeline** [BWML15]. **times** [Loe18, PRH17]. **timescale** [GO15b]. **timescales** [WBC+12]. **Timing** [Jag14, BBRJ15, dSCdA19, DWWS15, SGG14, WBS13]. **timothy** [JBB+12]. **Tinsley** [FTK+14]. **tips** [XCG+16]. **tissue** [PBP+15]. **Title** [Ano10-28, Ano10-29, Ano10-30, Ano11-39, Ano11-40, Ano13-41, Ano14v, Ano14w, Ano14x, Ano14y, Ano14z, Ano14-27, Ano14-28, Ano14-29, Ano14-30, Ano14-31, Ano14-32, Ano14-33, Ano14-34, Ano14-35, Ano14-36, Ano14-37, Ano14-38, Ano14-39, Ano15r, Ano15s, Ano15t, Ano15u, Ano15v, Ano15w, Ano15x, Ano15y, Ano15z, Ano15-27, Ano15-28, Ano15-29, Ano15-30, Ano15-31, Ano15-32, Ano15-33, Ano15-34, Ano16v, Ano16w, Ano16x, Ano16y, Ano16z, Ano16-27, Ano16-28, Ano16-29, Ano16-30, Ano16-31, Ano16-32, Ano16-33, Ano16-34, Ano16-35, Ano16-36, Ano16-37, Ano16-38,

Ano16-39, Ano16-40, Ano16-41, Ano16-42, Ano16-43, Ano17-41, Ano17-42, Ano17-43, Ano17-44, Ano17-45, Ano17-46, Ano17-47, Ano17-48, Ano17-49, Ano17-50, Ano17-51, Ano21d]. **Tixier** [Och10]. **TK** [SBDS13]. **TK/TD** [SBDS13]. **TK/TD-model** [SBDS13]. **TM** [TQZ12, VB10]. **toads** [BKP10, Bar11, MBG17]. **Tokyo** [SSN+18]. **Tolerance** [DP19]. **Tolerance-fecundity** [DP19]. **tolerant** [WTL17]. **tomato** [FKH+15, PDG+14]. **Tonle** [CSN+19]. **Tool** [WB16, BLH10, BGK+16, CVPR+16, CLBSG11, CMSPJ11, DWD19, EMH10, HKG+17, KTM+16, LCM11, LSP+10, LAEAG12, MAB19, Mul11, NW18, OFH+19, PVB16, RPC+17, RHS+16, RDD+14, SGB10, SGWV15, TVV13, ZWRK13, ZDG+13, TTCH+14, PSWM+10, FRV+16]. **toolbox** [LBSB+14, SBC+16a]. **Toolkit** [DFH+14]. **tools** [GB15, LRB12, MG16, SZVV10, SCG+13, TLW+14, UFK+10, vGKB10]. **Toona** [DSS11]. **toothfish** [MCMT+16, PLS+16]. **top** [BS15, BTB17, FE14b, GMTC+17, MBD+18, NGL13, PMBB+16]. **top-cited** [BS15]. **top-down** [MBD+18, PMBB+16]. **topic** [BME14]. **topo** [TAR13]. **topo-dynamical** [TAR13]. **topographic** [Kos17, MAO19, MGGLBIBD13, MOM+11, SMC11]. **topographical** [HS11]. **Topological** [NCMF10, NG11]. **topology** [BRPK14, DPPI14, WR12]. **toposequences** [GE17]. **TOPSIS** [GH13]. **topsoil** [LBE+18]. **torquans** [LIM+16]. **tortoise** [PTA+12]. **Tortrix** [KSS11]. **Tortugas** [MZLCSZdP11, NCMF10]. **ToSIA** [PSWM+10, LSP+10]. **total** [BDL+14, OGOWW16, WGD+17, YCF15, YFL+18]. **tourism** [PNHL14, SHCR10, WAM13]. **tourism-based** [WAM13]. **tower** [HCL+14]. **town** [LLW+15, ZFT+10]. **Towson** [WTC+18]. **toxic** [HHC15, JA15a, ZCSL18]. **toxicant** [HTL+14, MBM+18]. **toxicant-induced** [MBM+18]. **toxicity** [GV11, GRB12]. **toxicodynamic** [Ash10]. **Toxicokinetic** [Ash10]. **toxicokinetics** [LBS+14]. **toxin** [GV11, GBB+11, HQF+17]. **toxins** [FAMD+12]. **trace** [GSPSP15, KKK+19, GAF+14]. **tracer** [LSR16]. **Trachemys** [BGA17]. **Tracing** [LCT+17, Bai18]. **Tracking** [FDR+17, RMvW13, WFA+13, BBGJ13, KNPH+17, MLK+11, Pat15, ZSS17]. **tracks** [BCJ+12]. **Trade** [BLD10b, GJB+11, BBL11a, DZW+11, DP19, GK14, HV15, LARZN13, LCPB+10, MWML13b, RHD+13, SDT10, XHC+15, ZFZ+14, dMLM+17]. **Trade-off** [GJB+11, BBL11a, DZW+11, DP19, RHD+13, ZFZ+14]. **Trade-offs** [BLD10b, GK14, HV15, LARZN13, LCPB+10, MWML13b, SDT10, dMLM+17]. **Tradeoffs** [HCS+10, Str15a, Str15b, dOAC18]. **Traditional** [Cho13, FMBD15, Ned15]. **trail** [SG16]. **trail-laying** [SG16]. **training** [RFV+12]. **Trait** [GDTP13, ZMS19, CVS+13, KCG18, LJ15a, PBD19, PLL+19, RPM13, SJGB16]. **Trait-based** [ZMS19, CVS+13, KCG18, LJ15a, PLL+19, SJGB16]. **trait-structured** [RPM13]. **Traits** [GANB11, AWWD16, CDT10, DJH10, FL11, GDC11, GDC12, GEEC14, GPH17, HW12, HGAT17, KSI14, KAF+14, MJL+17,

RKBG14, RDH+13, SMG+12, TKW17, TM12, TM18, XKI+11].
traits-based [GEEC14]. **Traitspace** [LJ15a]. **trajectories**
[Bus17, GHST19, POB18, WB10]. **trajectory** [BTBM17]. **Trans**
[YCF15, HRSKW15, RXSK14]. **Trans-boundary** [YCF15, HRSKW15].
Trans-Himalayan [RXSK14]. **Transcarpathian** [HOŠ+12]. **transfer**
[BBDB13, DBP16, GSPSP15, GGR+13]. **Transferability**
[BRV11, DLvGGNC16, FHAG12, LPT+18, MAMNL+15, WZL+16].
transferring [AGQP+14]. **transformation**
[Abe15, BP15, MNEG11, MB17, PRHK19, SAAD16, ZFT+10, ZJB19].
transformations [BP15, BP16, BP19, Fat14]. **Transforming** [KHHN17].
transformities [Abe10, LLCR10, Pat14b]. **Transformity**
[Til15, CXL+19, GDC+19, LB18b]. **transgene** [GDT+14]. **transgenic**
[TWL11]. **transience** [GvdWBS11]. **Transient**
[CGAB17, MM19, Sin17, PP16, WAM13]. **Transition**
[NSN17, Bae18, BCV13, BH13a, BH13b, DBG14b, DBG14a, FLY13, FDR+17,
For11, IKK+12, KP13, KF16, NF11, Phi11, SHBG10, VSF10, YZ18].
transitional [QCLW18]. **transitions**
[GPM+16a, GVV17, JDZC14, PMTKC17, RWFD13, dAdSC15, vLTdBP16].
translocation [HBT+18, TL15]. **transmission**
[BSCG10, FBB+18, HJ10a, HTVE18, POS+19, PMP+13, SSQ+10].
transmitted [BGG+16b]. **transmitter** [PR13]. **transparency** [SAI10].
transpiration [MEC14]. **Transport**
[NSN17, ABR12b, ABR12c, BKN14, BWA17, CNI11, CGG+18, GJM+13,
GPD+13, JA15b, LZYH19, MK14, MWM+16, MCMT+16, OdlFDP15,
QDH+10, SH14, SEHD18, WFW+17, ZSG+18]. **transported** [BEZ19]. **trap**
[CGB+13]. **trap-effects** [CGB+13]. **trapping** [CGS+17]. **Träsk** [WFM16].
traveled [RDJ19]. **trawlers** [RPP+15]. **trawling**
[ADL+10, DLH+14, TSN17]. **treatment**
[MXC13, Mur11, SWZ+13, TA11, YqWB+15, ZF11]. **treatment-resistant**
[Mur11]. **treatments** [DAA+12]. **Trebonsko** [HV15]. **Tree**
[MBHW12, AK17, BlMG+11, BBL+17, BFNH14, BFH14, CHG+15, CRD+16,
CLBSG11, CW11, DAF+11, DFRT14, EFM+10, EKB18, FAS+19, FMF12,
FCV+12, GHST19, GVGZ+21, GLR+19, GGSP14, GBP+10, GHS+10,
GOSH+12, GCIB10, HMP19a, HHW11, KAF+14, KHS+19, KGD14,
KPK+17, KR14, LBZA19, LHP16, LS10, LL18a, MBG+10, MK12,
MWML13b, MdMS+19, NZL13, NLMdL10, NMS10, NP15, NPH+17,
OBLJ13, OJ15, PR11, PMS11, RFZB12, SZSV13, SVH+19, SFL+19, SNZ+19,
TCSG15, TKH17, TYEH10, WK11, YLL+17, dJGM+18]. **tree-** [FAS+19].
tree-grass [YLL+17]. **tree-ring** [EFM+10, MK12]. **Treefrog** [ACC+10].
Treeline [KWJH16, MU17]. **Trees**
[AWWD16, DHC14, DSK+11, DTS+12, EBL+11, Gav15, KKR19, KMM+13,
LKDD15, MROGVR12, MCS+18, PVL+14, SZSV12a, SH14, VCSSC12].
trembling [ARM+12]. **tremuloides** [ARM+12]. **trend**
[Hui11, LZ10, RDD+18, WJvdL+13, YYL13]. **trends**

[CHR+13, CL15b, JMSM12, LMSK12, LW17, PAS+10, RKRB16]. **Tri** [BPT+19, CH19, SFHK12]. **Tri-Annotated** [BPT+19]. **tri-trophic** [CH19, SFHK12]. **trial** [JAKJ10]. **tributary** [MLW+15]. **trichotoma** [JBB+11]. **tridentata** [SLB14]. **trip** [VRM+10]. **tripartita** [DZS12]. **TRIPLEX** [WPZ+11, ZXD+13]. **TRIPLEX-Management** [WPZ+11]. **TRITON** [MJL+14, MJL+13]. **tritrophic** [BWH13]. **Trophic** [BSASSJ+13, BPGSS+18, CD17, GAV+11, LBD10, MDL+10, URUNAM12, ZRCNLI+15, AS14, Ban11, BFP+18, BS10b, CH19, CGEdM12, DATI10, DLH+14, DUASLB+12, DBVS19, DCZ+15, ELPK12, ESLJ18, FAMD+12, FE14b, FSML11, GLS10a, GDTP13, HKL+11, JTB+19, JHH+12, mLcLJ15, mLcLJ16, LVV+15, MTZ+10, OBC+21, Pea15, RHR+15b, RDR+17, SB11, SLW+14, SFHK12, SS11, SPP18, TW18, TNHB12, TAR13, TTCC+19, ZB15]. **trophodynamic** [RDD+17, VPB+17]. **Trophodynamics** [GPR+13, VASL+15]. **Tropical** [FAC+19a, BBRJ15, Bre12, CPR10, CGGL16, DH12, FSML11, FBH+14, FBdP+16, GHST19, Gat18, GGTP+17, GANB11, HBG+16, KK12b, LS10, LCZ11, LYL+17, LCDJ+12, NCEGB16, PDD+18, PTE+12, PMS11, PMBB+16, PGA+11, SBRD10, SLZ+13, TDH12, VRC17, VRL18, ZNS+18, AH17]. **tropics** [SV13]. **trout** [ARV+16, CSR15, FB13, KGM12, MMMGLN+18]. **truncatus** [BWC17, MMCBP19]. **trutta** [CSR15, MMMGLN+18]. **TSD** [PL10a]. **tsetse** [LDM15b, Pec12]. **TSPM** [YCF15]. **Tuber** [YKL+12]. **tuberculata** [RPA12]. **tuberosum** [KYvdPS14]. **Tucuruí** [DBK+13]. **tuna** [DFM12a, DFM12b, MROGVR12, PAGCV+10]. **tunas** [FE14a]. **tundra** [WR18]. **tuning** [AG11, NYIH17, SMI+19]. **Tunisia** [HBS+16a]. **turbid** [MJB+11a]. **turbidity** [LBE+17]. **turbines** [KHKC+18]. **TurbSeed** [HRWT12]. **turbulence** [YLC+18]. **turbulent** [HRWT12]. **turfgrass** [MKTO19]. **Turing** [FR11]. **Turkey** [KAF+14]. **turn** [Ber13]. **turnover** [JDGJ13, LW17, MCR+15, SKK+13]. **Tursiops** [BWC17, MMCBP19]. **turtle** [HGWL11, HVL+19, KWGG19, PL10a, PRH17]. **turtles** [AB13, DBP16, FP13, MJL+17, PP19, WHRR15]. **Tuscany** [MJP+12, MCBM12, MCPB15]. **Tuta** [RSCS19]. **Two** [FDHL17, MCT10, MPF+14, YWY10, AR11, AHM+16a, BVC+18, BND19, BMCG12, CLL14, CSN+19, CRA+11, CCL+13, DZS12, FMBD15, FSM+19a, FAPM12, GTC16, GBP+10, qHLlZ+16, HB14, HQF+17, JAH+10, JGB15, KSM+18, KPS19, KR14, KRCVF16, LDM15a, LkSXhX17, LZJ+19, MJLC14, OCB+13, OLG+13, PKG16, PDBP11, RBM+17, RW17, Rin18, RDH+13, SELB10, SFR+17, SRV+12, SFHK12, TKP14, Tul14, WBS13, WJL14, WCZ11, YHW+12, ZMS19, ZW11, ZJM+11, ZSJ15, dHR18, Kal19]. **Two-dimensional** [YWY10, AHM+16a, LkSXhX17]. **two-layered** [JAH+10]. **two-patch** [LDM15a]. **two-sex** [TKP14]. **two-sidedness** [WJL14]. **two-species** [YHW+12]. **two-toxin** [HQF+17]. **two-year** [qHLlZ+16]. **two-zone** [WCZ11]. **type** [BGMJ+12, CCL+13, CN10b, HS13c, HS13b, HWE+18, SJGB16, SA16, WZWL10]. **types** [BC13, GANB11, HMP19a, HBA16b, LM13, LAD11, LS10, ROG+16]. **Typha**

[ESA12]. **typhoon** [PCTW17]. **typical** [BCC+11, JHH+12, JC11b, MLW+15, mNkGyT+17, SLW+14, SYY+19]. **typographus** [OFH+19]. **Tyrannidae** [LIM+16]. **Tyto** [dÁGP14]. **Tyuleniy** [ZKSF17].

U.S. [BTPG10, LJ13, PAS+10, ZLB14]. **U.S.A.** [Tat16a]. **Ukrainian** [BRPK14, HOŠ+12]. **Ulanowicz** [Kat11]. **Ulansuhai** [MWY+18]. **Ulex** [RPGA15]. **Ulleung** [LY16]. **Ulrich** [FM11]. **ultraoligotrophic** [HC11]. **unbalanced** [FMF12]. **uncertain** [TB12b]. **uncertainties** [COY+10, CLNN14, FCG+19, JKS+10, KPK+17, LLZ+16, OLG+13, PNT+19, THC18, ZHC+16]. **Uncertainty** [Ant14, GTC16, GLY+15, Ing10, JJMW14, JAKJ10, PAS+10, RHS+15, RHD+16, ALG16, CS17, CC14, CJR+16, CAMCK+12, CTMS10, CBA16, CWMC+12, DAA+12, DHS+16, DPBS10, DBJ13, GB16a, GDT+14, GLC+15, HLK+12, HL19, HT14, ISG13, JSL+10, JLZ+18, KB10, LKMCW14, LA11, LkSXhX17, LHZN11, LLCR11, Log16, Log17, Mar12, MTJF11a, MDKK15, MSF18, MSHC13, OOFVBC16, OKS+11, PSB+17, PMCKH13, RHW17, RMTM+16, RAF17, RHZ+18, RR12, RIMPBT19, ST13, SMT19a, SMT19b, Sma13, VPM+18, WC13a, WBB+21, Wil11a, Wil12, YTT+11, YLHZ14, ZBS14]. **Uncovering** [DS12]. **under-bark** [VCSSC12]. **under-ice** [AHS+16]. **underestimate** [Log19b]. **underlying** [CLT+11, GGSP14, PMF+13, Sil11]. **underplanted** [DSS11]. **understand** [ACE+17, FBdP+16, FCA18, LS10, RCBPMN10, WHH+18]. **Understanding** [ALC12, AH17, BU11b, FKSK+10, KPK+17, LV17, LBH+15, LWTZ18, PMF+13, TB13, WFW+17, XZCL16, CGGL16, JM15, LWC+18, LQW+19, RDH+13, VPC11, WJS+18, Wei19]. **understory** [KLS+14, XKI+11]. **Underwater** [CLD+17, FSN+15, PC17]. **unexpected** [FJH15]. **unfished** [EPM+14]. **ungulate** [DDM+17]. **ungulates** [DDB+12]. **unicellular** [GRD+14]. **Unified** [HBP18, TT17a, TA11, YLF+15]. **uniform** [MH13]. **uniformity** [MdMS+19]. **uninhabited** [NCK10]. **Union** [LCBNP19]. **unique** [Bin17, Fis21]. **uniquely** [MCB14]. **uniqueness** [mLcLJ15, mLcLJ16]. **unit** [LDC+16, PPF11, SFM+18]. **United** [Gli14, HSR+15, GZK+11, CRD+16, LLT+14, LLT+17, RWFD13, RTE+15, SHC+15, SBF15, SWR+16, SB15]. **units** [Mul11, TB11, TB12a]. **universalities** [BC12]. **university** [WHH+18]. **unknown** [Agu11, Dil10]. **unmarked** [CGS+17]. **unmodeled** [DAP18]. **unobserved** [BLFS18]. **unravel** [VPM+18]. **Unsuccessful** [DCCS17]. **unsupervised** [ASL13]. **Unveiling** [CMM+10]. **unwittingly** [RDV+17]. **update** [Fat10, Fat12, GBD+10, HGLZ13]. **Updated** [BU10]. **Updating** [GGV10]. **upgrades** [FN18]. **upland** [DBG14b, DBG14a]. **upon** [RLHD11]. **upper** [JJYM19, DWNN10, DVF+19, PSBH16, dFMdSA18, KH11]. **Uppsala** [NPP+18]. **Upscaling** [NPH+17, GWC+10, MGS16]. **upstream** [MWK19, YXD+18, ZVS18]. **uptake** [AJDS16, HCL+14, LNB17, LPD14, LB18a, MCH15, MBW14, NP15, NPH+17, SAAD16, VRL14, ZLFI11]. **upwelling** [BCO17, OCCF17, RWP11, RBGB16]. **Urban**

[CL15a, HLW15, NLM+19, Wei19, ZF19, ACC+10, Ano12t, BLOJ+19, CWLL15, Che15a, DLZ+17, DLD+11, DWP13, EBA+19, ESP+17, FKWZ19, FDR+17, FCZ13, GWHL15, GCV14, GWZ+15, GLI+21, Hal11, HCM+15, HJ17, HZZ+18, HM18b, IBD+19, Ji15, JZG10, JMW11, JC11a, JDT+17, KRE+18, LRM+14, LkSXhX17, LYSW15, LHL18, LWTZ18, LYCZ11, LYCZ13, LCP14, LYCU14, LL18b, MD16, MGR+18, MJLC14, MGS15, mNkGyT+17, TJYZ11, WZG15, WFM16, XHC+15, XZSL17, XJY+16, YKZZ14, YCF15, YZPL16, ZYFL10, ZLF+11, ZYLY11, ZLC13, ZWG+13, ZLF14, ZLF+15, ZLFZ16, ZLZ17b, ZWF18, ZTL+17, ZHCX15, ZMH19, MSS+19].
urban-rural [MJLC14]. **Urbanization**
[YWH15, CLHH19, LLQ+15, TLL+15, TOQW11, ZWG+17, ZSKI17].
urbanized [SDY+15]. **urbanizing** [LSZC10, WZG15]. **urchin** [RCP17].
urea [VRL14]. **urease** [TB19]. **ursinus** [ZKSF17]. **Ursus**
[DFK+11, MSH+19]. **urticae** [dOMZ13]. **Uruguay** [dFMdSA18]. **USA**
[BN10, Jør14a, CPS15, DVF+19, DLH+14, DWP11, FP17, FYWA12, FWRZ10, HSTS19, JMB+11, KB10, KBS+15, KPT11, KMP14, LdMS+16, LXS+16, MSB+17, MR17, MJLC14, OC15, PANL11, RR10, SHX+12, SGDP19, TOQW11, WMW+12, WTG+16, WTC+18, WPB14, ZF11]. **Use**
[BVC+18, BFJL15, CCC12, JN14, LM12, LCD+16, LSJG17, MGGLBIBD13, SZSV12b, TF13, ZSG12, BSC+15a, BPR+11, BPC+17, BKMK10, BK13, CLH17, CZ11, CC11, CPS+14, DK17, DMB+18, DSM+12, DPLC13, DGKSM13, DSA+18, ER13, Fel12, FCFT16, GAP+19, GK14, GMP13, GFP+16, GLI+21, GS19c, HLZ+18, HHL17, Hoa11, HNWT10, IKH+11, JBV+15, JJYM19, KMRW16, LBA14, LBA15, LBE+18, LY11, LCL+13, LBK+13, LWL+17b, LLZ12, LOLA13, LZZW17, LBC+15, LCDJ+12, MVC+17, MDOJ14, MLG+18b, Oga11, PR13, PK16, RLHD11, SJGB16, SGA+16, SDD+13, SMH+12, SLH+11, SRTS18, SWR+16, SDY+15, TBL+15, TB19, VR12, VGR+11, WHB12, WO14, WBG+14, WS15, WSE10, WHNR19, WFM16, XLS11, XLR11, YWH15, YZL12, YLW14, YZC14, YXD+18, ZFT+10, ZZFH15, ZZJ+16, ZJP+11, dFMdSA18, dLB19, dSD14, vDSC+10, vVBHZ11, vVHZHvD13]. **use/cover** [LWL+17b]. **use/land**
[ADF+17, XLR11]. **useable** [Ken17]. **used** [BTM+10, CD16, CBA16, FML+17, GWR11, HM17, Löp11, MBLC14, RPGSCF16]. **useful**
[MTA19, PVB16, QL15, SBD+19]. **usefulness** [HJN12]. **users** [CBC+16].
uses [WXB10, ZQC15]. **Using**
[ARM+12, BS10c, CDR+13, CPD+11, CMGF14, DTS+12, DLH+14, DDR+18, EBL+11, FRV+16, FCLFB18, FCFT16, Fre16, FP13, HAOS17, JBE+15, JGX13, KGM12, KHHN17, KKI+14, LSR16, LQW+19, LL18b, MTZ+10, MV11, MU10, MDH15, MCPB13, MCMT+16, NSN17, OOFVBC16, RM13, SEHD18, SGRAdJ17, TPG14, TNHB12, Tul14, VSF10, WLY+15, WV12, ZSG+18, dMLM+17, AGJ+12, ABB+10, AAO10, AS11, AYASR+17, Ana17, AHNK13, AHS+16, AAFH15, BDL+13, BHD16, BCB+11, BB10, BC12, BLBB13, BSH17, BBL+17, BT16, BFNH14, BBGJ13, BMCG12, BPC+17, BJR16, dÁGP14, BB18, BQF+18, BBH+17, BK13, BLAV18, BPD+19,

BRB14, BLCPB11, CF14, CLBG15, CC10, CBGK15, CZ11, COPP13, CN11, CMA+13, COK+11, CGAB17, CAMNN16, CAY+10, CTMS10, CDL+11, CBP+17, CVG+15, Con14, CSFR15, CRQW18, DJT+19, DSK+11]. **using** [DMDJ13, DSM+12, DS21, DBP16, DG16, ETG+18, EST+19, FTK+14, FSB13, FLH17, FIG+10, FT16, FAPM12, FMLM11, FBKS17, GCDA16, GWHL15, GGV10, GKF+14, GPCG15, GE17, GOSH+12, GAF+14, GNB+14, GHS+16b, GCW+16, GCvDM12, HHC+13, HBS+16a, HCW+17, HPJ15, HVL+19, HSK17, HMS+11, HS11, HTL+14, HCL+14, HJS+16, HSHF+13, HHC15, HVCP16, HMA10b, HWL17, HNWT10, HGLZ13, HBA16a, HBA16b, HAA+21, HT14, IPSH14, IT17, JVY19, JR16, JG10, JHH+12, JFS+12, JMdW+10, JDP+12, KSS11, KW18, KCF+13, KSZW16, KKL+12, KPM+14, KLS17, KC18, LRZ12, LCCL15, LJ15b, LJ15c, LLKY18, LWY+11, LPV11, LLC11, LVZ+11, LPX+12, LLP17, LAK+18, LCMG18, LRB12, MK13, MLK+11, MAO19, MYHN17, MMS12, MKSL+17, MK12, MJLC14, MBM+18, MJF19, MRR+14, MSHC13, MdMS+19, MAMNL+15, MDVG+15, MSO10, MCP16, NP18, NOOM+16, NMS+14, NB11, NNP19]. **using** [NiSK21, NJCF11, OKS+11, PSB+17, PC17, PMS+17, Pat12, PWGS+17, PD15, Pér18, PWP+19, PMRGF10, PKW+10, PvVC13, PICR13, PSS16, PSKO16, Qia12, RVL+18, RPSA12, RvS16, RWS+16, RGHS11, RAR15, RBRK16, SCB13, SZV14, San17, SNS+12, SHT+21, SMI+19, SØB14, SHM+14, SCHGM16, SDEP18, SBC+15, SGP18, SSM+13, SFB+15, SM14, SSW+18, SGKR10, TSN17, TKW17, TB11, TB12a, TCSG15, TQZ12, URUNAM12, VRM+10, VALC12, VB10, VASH+16, WDL+15, WTWS19, WLR+11, WFA+13, WBG+14, WGD+17, WCG+11, Wil11a, WKH19, WX11, XZCL16, YKL+12, YKZZ14, YLF+15, YZPL16, YRGH16, YHW+12, YLL+12, ZLY16, ZH11, ZZJ+16, ZZ17, ZCS13, ZZT13, ZHLZ17, ZSKI17, dJHMS19, dMSL+16, vdKGV11, vdVBJS15]. **utility** [AMH16, KA17, LYCZ11, TWP+14]. **Utilization** [BRL12, BFKS16]. **UV** [MRCW10]. **UVAFME** [WSL17]. **UVAFME-VOC** [WSL17].

v.2 [SGB10]. **v1.0** [WSL17]. **VA** [JMB+11]. **vaccination** [CESC19, SM11]. **Vaccinium** [BHD17]. **valid** [LM16]. **validate** [DLH+14]. **validated** [ASV19, MCH15, TWL11]. **Validating** [CVPR+16, DFRT14, PWK+17]. **Validation** [BBL+17, BH10, FSS+17, HGN+16, KCF17, KCF18, NB11, OCCF17, AVG14, BlMG+11, BRM+14, HD16, HKlL14, HSVL12, JSdSdL+18, KHW+16, KSAS12, KHW+17, MJL+13, MJL+14, MPL+16, NGWZ16, OGOWW16, RWP11, SW11, SM13, WB10]. **validity** [KRL11]. **Vallès** [GPM+16a]. **Valley** [FCFT16, TW18, MMS12]. **valuable** [FMBD15, GWR11]. **valuation** [LLZ12]. **value** [BFPR16, BvHR+15, BPD+19, CSF11, FAC+19b, GBL+13, JJMW14, MRES17, OT15, PPF11, RRBI14, RAB+10, TAGC+16, VPB+17, WEB11, XHC+15, vGKB10]. **valued** [SDY+15]. **values** [DLL18, GFC15, HCS+10, Ing10, KGD14, RHR+15a, SLH+11]. **Valuing** [VLZ+19, NPP+18]. **vapor** [MKF+11, QlSeZ+10]. **variability** [AK17, Ash10,

ABD14, BDL+13, BA14a, BMD18, CMT+11, CdMMF16, CAC+16, CBA10, CRQW18, CQS15, EC10, FHAG12, FPG11, GNB+14, HM12, HBG+16, JVY19, KM12b, KK15b, LY16, LDO+18, LS13, LC11, MAM+12, MK12, MLH+17, MB14, NZL13, PVBC14, PRP17, PICR13, RNE+12, SC18, SPG11, Uch16, VASL+15, WLS+10, WLS+11, ZWA19, ZZT13, ZR19]. **variable** [CGLA10, CMT+11, GO15a, GRD+14, HKM+18, HJN12, JFS+12, Log13b, MKL14, MMC+19, MRWN19, MFI13, PBO19, SKHH19, WB14, WGE+19, XLR11, ZBMC14, ZLD+19]. **variables** [BBH+17, CKMD14, Fis21, HL19, IGR+18, KHJ+19, LHR+15, MDH15, PSKO16, SZSV13, WRB+12, WSBP13, ZLY16]. **Variance** [RHvdTS14, Sma13, SBPZ12, WBB+21]. **Variance-based** [RHvdTS14, SBPZ12]. **Variation** [LXS+16, SBM+12, TLL+15, BSFR17, BPWB14, BRS+18, DCCS17, EMH10, FCS13, FS18, GHH+15, Gre12, HCP10, HSM+12, yHAB12, LMSK12, MDB19, MCRB17, PL10a, SNS+12, SW19, SFMA15, SEHD18, SML12, WGA+11, WGA+12, WTG+16, WWC+18, WHNR19, XCR+13, ZBSF17]. **Variations** [Kal19, ChHC12, EFM+10, FS14a, MOM+11, Nak17, NiSK21, PVM12, PVM13, SBC+16a, TMC+16, UDRA13, WLY+15, XWC+11]. **varies** [MGB13]. **variety** [BS13]. **variograms** [PS13]. **Various** [AMRH19, LWY+11, MKTO19, NGGFM19, OJ10, WGSR19, XSL18, YHK+19]. **Varroa** [Vet12]. **Varying** [SSBJ12, CTNH13, DTC+10, KSS11, KD13, LBE+17, LMSK12, LB15, Sol19, TT17b, dLB19]. **vector** [BC12, EPA+10a, HM18a, HM19, LBR16, MD16, MMVAHMC16, SZSV12b, TF13, ZYXT18]. **vector-borne** [LBR16]. **vegetable** [LHB+18, SJS+13]. **Vegetation** [BKB10, BvBB10, YCL+14, AD13, BBDB13, BLD+10a, BlMG+11, BC13, BSS+14, BFKS16, CRAP13, CHPS17, CLCC11, CN13, CSFR15, CV19, DSK+11, DVCM+10, DS21, FKSK+10, FBDZ12, FPG+10, GGM+12, GMLRF10, GLRT16, HHC+13, HOŠ+12, HBL18, JWX18, JDGJ13, KMF+21, KP13, KBS+15, KF16, LJBS12, LKH+18, LH15, LKG+17, MBHW12, MKF+11, MVC11, MPG18, NJM11, OC15, PRHH13, PBG+17, PBFS14, PLL+19, RPGSCF16, SS16, SBF15, SMH16, SV13, Tie16, Tul14, UR10, VB10, WJL+13, WZGH18, Wol11, XGH+17, YLZ15, YL18, YLL+12, YFL+18, vLTdBP16]. **Vegetation-specific** [YCL+14]. **vegetative** [Hos11, IWW12]. **vehicle** [ACSR+13, GJB+11]. **velocity** [LBW18]. **Venezuela** [RDR+13]. **Venice** [BSZ+11, VZF+11]. **vent** [HSvO+18]. **Ventotene** [FBDR17]. **Verhulst** [MV17, Ned15]. **verification** [OGOWW16]. **verify** [CS17]. **versatility** [GLA11]. **version** [SYL+13]. **versus** [BBH+17, DJH10, LJ13, LCDJ+12, MMM+16, RUSL19, RAB+10, Sto10, WB14, WEJ11]. **vertebrate** [BNGP19, PDV17, TV15]. **Vertical** [BM16, OAPP12, XHC+15, BVJE18, BP16, BP17, GC14, LY16, MPM+15, MUP+13, MB17, MN12, SAI10]. **vertically** [BBH+11, For14, LKLK15]. **very** [FRM+19, LAC10, YHS+11]. **vessel** [DMH17, WB10]. **vessels** [AWF10]. **VGEs** [ZCL+16]. **via** [BA17, IHSM12, Jag14, VHM+17, dSdCF10]. **Viability** [KCKdOW12, WAM13, CJM+12, HCW+17, KKR19, LN16,

MCRB17, MSB+17, MATS14, RJG+13, ROG+16, TWS+11, WAGM17]. **viable** [VEK12]. **Victoria** [LWNG13, NOOM+16, ZDG+13]. **victoriae** [AR11]. **view** [DPR10, DUASLB+12]. **viewpoint** [AG15]. **villages** [BMMC21, FMBD15]. **vine** [Gat18]. **vineyard** [Pie10a]. **Viral** [KGM12]. **Virgin** [CNI11, EKB18, MRG13a]. **virginianus** [WTG+16]. **virginica** [LLC+17]. **viridana** [KSS11]. **virtual** [BGGL16, HKVD16, OMH12, PC17, SDEP18, ZCL+16]. **virtually** [Bin17]. **virus** [FBB+18]. **Viruses** [KGM12]. **vis** [RSCS19]. **vis-à-vis** [RSCS19]. **vision** [GAB12]. **visitation** [OBSL15]. **visitations** [RW10]. **visited** [BRL12]. **visual** [FYR+18, PC17, PC15]. **Visualization** [FKDG14, SSM+13]. **vital** [DCCS17, PRL+13]. **vitellogenin** [MPK18]. **VMS** [JBCN11, VRM+10, WB10]. **VOC** [WSL17]. **volatile** [WSL17]. **volatility** [LW17, MDB19]. **Volterra** [For18a, GvdWBS11, TSM+15, WSSM15]. **volume** [DBP16, PDD+18]. **volumetric** [LKP13]. **voluntary** [BA17]. **volunteer** [MGSB11]. **Voronoi** [SvdR10]. **vs** [BVVS15, BOW+12, BRF+11, Con11, Con12, Gra14, KWH14, LTL15, LM19, Log19a, MWK19, OOFVBC16, Pér18, RHS+15, RHD+16, Ten15b, TS11]. **vulgaris** [CDT10, CDT10, FLLB11]. **vulnerability** [ASP+15, CLH17, CW11, RCSS13, Sol19, SCBH18, SH18, ZLZ+17a]. **vulnerable** [CHTC11, CSFR15, IPSH14, ZZA+18].

W2 [ZSJ15]. **WA** [KR10a]. **Wabash** [MCP16]. **wader** [SDT10]. **wahoo** [MROGVR12]. **walk** [PvVC15, PPBD13, SA16]. **Walker** [PvVC13]. **warbler** [DHS+16]. **warm** [GSF+16, CBB+10]. **warm-water** [GSF+16]. **warming** [BH13a, BSH17, BSHG16, CSR15, CN13, DBS18, FAS+19, GLR+19, GHP12, Gra14, HHK19, HEJP17, KTK+15, NGL13, OQH+13, VPS10, ZJL+14]. **warning** [Bae18, LSZC10, OFGH+19]. **wars** [MR10]. **Was** [BPB14]. **Washington** [PAB13a]. **wasp** [GPTR13, PFP+16]. **wasps** [SFHK12]. **waste** [GRRU15, KS18, MWM+16, PAGCV+10, RPC+17, XZCL16, ZHCX15]. **wasteland** [Ber13, WWYO17]. **wastewater** [BKN14, dABLBAdOR17, GJÁ+10, PLFO+12, SWZ+13]. **wasting** [HMPC11, PMP+13]. **watching** [RIMPBT19]. **Water** [Jam16, Ju19, KS17a, KS17b, LZJ+19, MOMC17, Mur12, NGGFM19, PRHK19, WRMB18, XYTS19, YZPL16, BA14a, BAB+16, BC13, BT16, BDTV11, BKB10, BvBB10, BMU10, CZC+15, CW17, CHR+13, CZ11, CSR15, CN13, CDG15, DC10, DBG14b, DSS11, ER13, FKWZ19, Fel12, FCH+17, FP17, FLB+15, FAC+19a, GSF+16, mGZK+10, GA15, GPCG15, GMP13, GWK+12, GS10, GCL+19, GEB10, HKL+11, HCM+15, HLZ+18, HCL+14, HV12, HGBA+13, HC11, HhLY+19, HBA16a, HBA16b, HYL+17, HAA+21, JZG10, JMW11, JLZ+18, KPM+14, KLS17, KJS13, LBZA19, LHL+17, LY11, LWGH13, LLQ+15, LZL+18, LBW18, LHB+18, LPV11, LKP13, LGY10, LHR+15, LPD14, LB18a, LL18b, MTZ+10, MBSW12, MBW14, MKF+11, MGR+18, MA10, MVC+17, MGW+13, MH10, MLH+17, MB14, MMRS+19, MCP16, NLM+19, NGWZ16, NiSK21, OSS13, OdlFDP15,

PAT17, PBFS14, PANL11, PPF11, QlSeZ+10, RLB+12]. **water** [RAF17, RZF+13, RHZ+18, RCCN11, RMLTCQ+19, RPGSCF16, RPP+15, SZSV12b, SFMA15, SMH16, SKTG11, TSB+18, TBL+15, TGB+17, UR10, WMW+12, WKZ+19, WYY+19, WO14, WXB10, WV12, WRSL11, WFSH15, Wol11, WZG15, XLS11, YqWB+15, YWH15, YY11, YY13, YLL+17, ZHC+16, ZWRK13, ZLLC13, ZLZS14, ZSJ15, ZLJM17b, ZLJM17a, ZTL+17, ZW10, ZJP+11]. **water-controlled** [RPGSCF16]. **water-energy** [FKWZ19]. **water-environment** [ZHC+16]. **water-limited** [CN13, YLL+17]. **waterbird** [GDW12]. **waterbirds** [WRSL11]. **watered** [CCL+13]. **waterfowl** [ATL18, BKN21, MRD+12, MRES17, PSBH16]. **Waterfowls** [JJKJ11]. **waterholes** [FKSK+10]. **waters** [GEB10, HSCS14, NvGZ+16, RRHH10, SØB14, WLZC11, WNT+13]. **Watershed** [DZW+11, ER13, AAO10, AADA14, Ano12s, CL10, HKVR13, KJMA11, MCW13, NXZ18, PAT17, PPF11, YDZ+21, ZF11]. **watersheds** [GTC16, MC11, ZJM+13]. **watsonii** [GRD+14]. **wave** [JGB15, KL12, LZW+17, ZLFI11]. **wave-** [ZLFI11]. **wavelet** [SLB+18]. **wavelets** [ROC+13]. **Waves** [CLMA19]. **way** [Mur12, Vav10, WYPF15]. **ways** [MCT10]. **Weak** [MJC+11, WLR18, BDG+14, RWH+14, DJH10]. **weaken** [CHZ18]. **wear** [SM10]. **weather** [CVV+13, CCSF11, JCKG15, KCF+13, SPG11, WGA+11, WGA+12, WGA+13, WLS+10, WLS+11]. **Weathers** [Jør14b]. **Web** [HhLY+19, ABAG14, BSH17, BSZ+11, BPGSS+18, BRPK14, CGGL16, CKS+17, CPS+19, CPS15, DCZ+15, ESLJ18, FSML11, Fuj16, GLC+15, GYL+13, HBS+16a, HCL+16, KKH+17, KSAS12, KEM+16, KHL+16, LJR14, LSR16, LBSB+14, LLKY18, LLFL12, LVV+15, MKL14, MDL+10, MSFR15, NOOM+16, NCMF10, NCEGB16, NMC+14, NMS+14, OGG+16, OHS+17, PJ17, PTL14, PICR13, PMBB+16, RGU+15, RMR+16, SVD+13, SBR+19, SFHK12, SKM+16, SCG+13, SS11, TRD+15, TNHB12, TCH+13, VASH+16, WTWS19, Pau14]. **webs** [AdMC+13, BNMP11, BCV13, BPK+12, CR12a, FE14b, KCC16, LCTH12, RBM+17, SBVA+13, SGAS14, TPL+15, TAR13]. **Webworld** [AMG19]. **Weddell** [BTB17]. **weed** [BGMJ+12, CDT10, GDC11, GDC12, Gat18, MSKS13, MJGC13, RPA+18, SPWR17, SMKM19]. **weeds** [DZS12, MMC+19]. **weedy** [CDT10]. **Weibull** [WXB10]. **weight** [JG10, Sim11]. **weighted** [WFA+13]. **Weights** [YKL+12, RPPW16]. **well** [SHC+15]. **wellbeing** [ESP+17]. **Wenchuan** [LLL+10]. **Wenyuhe** [RZF+13]. **West** [BCB+11, KCF17, KCF18, ABGB15, BMMC21, BBC+19, BTBM17, DA19, SS16]. **Western** [QDH+10, ARM+12, BKP10, Bar11, CCCP17, EGMW12, GTC16, HCS+10, HHC15, JXL+15, JHHS17, LMBL12, dSD14, ADPS10, LMBL12, MMM+16, PKB+18, TTL+18, URR+17, TCH+13]. **wet** [LAC10, MXC13, ZCYL15]. **Wetland** [AK17, CCLX17, WMW+12, YM21, ACK+14, BCC+11, CHTC11, CBGK15, CZW10, CCC11, CZ11, CL15b, CDG15, CGM+14, DTC+10, DLD+11, HZT+13, LLM+13, MLMFN+15, NXZ18, OSS13, PJ16, PLFO+12, PK14, QCB+11, RHB14, RZF+13, RSC12, RSC13, SZSV12a, SZSV12b, SZSV13, SZV14, SWZ+13, SXZ+15, SGKR10,

TXM+10, WJL+13, WCZ11, XTPT11, YDT+13, ZC11, ZWJ+12, ZHC+16]. **Wetland-tree** [AK17]. **Wetlands** [HV15, Jør10a, CZCL18, CHVH13, DA17, JDGJ13, LHZS10, MLB+16, MXC13, MB17, RSC12, RSC13, SKH+13, Yan11, YC11, YY13, ZZA+18, MGMR15]. **wetlandscapes** [ZZA+18]. **WH8501** [GRD+14]. **Whale** [RIMPBT19, CLD+17, PWGS+17]. **whales** [CMA+13, RMTM+16, SGSR10, WCG+11]. **wheat** [AWL+13, ADPS10, GLS+17, LYD+17, PVBC14, PZM13, SMKM19, WPZ+14, ZBS14]. **wheat-belt** [ADPS10]. **Where** [AG14, Nie16, RA13, BL15, DFH+14, GHWG+14, vdVJS16]. **Whether** [Gav15]. **Which** [BGD+16, CHPS17, MFI13, WXB10]. **while** [HKM+18]. **Whistler** [MSH+19]. **White** [Bec10, LSJG17, ABK+16, BTBM17, CESC19, LJ15b, RTE+15, WTG+16, WR13b]. **White-fronted** [LSJG17]. **white-nose** [CESC19, RTE+15]. **white-tailed** [WTG+16, WR13b]. **whitebark** [MSM+17]. **whitefish** [FMG+16, VVH12]. **Who** [SM10, TL15, dSJHG10]. **whole** [GS10, LBZA19, LBSB+14, TTCH+14, TM14, THBF+17]. **whole-ecosystem** [LBSB+14]. **whole-profile** [TTCH+14]. **whole-tree** [LBZA19]. **wholeness** [Fat14]. **wholeness-extending** [Fat14]. **WICKED** [BFR17]. **wide** [AVL+11, BPK+12, DHS+16, FGH+10, GBB13, MvDL+10, SHT+21]. **wide-ranging** [MvDL+10]. **Widening** [GPM+16a]. **width** [CH12, SRXP14]. **wild** [CHvdW+10, DS12, GDT+14, HA18, PKB+18, RCS+19]. **wildebeest** [War10]. **wilderness** [SRP18]. **Wildfire** [SCB13, ZJG10, ABB+10, ABD+18, FAS+19, KK10, KUK11, RCBPMN10, TTL+18, WLS+10, WLS+11, ZMMHR10, MRC19]. **wildland** [MRC19]. **Wildlife** [ACSR+13, SZSV12a, BG15, BFJZ+11, BTPG10, CLT+11, Flo18, LAK+21, MSMM11, SHCR10, SK11, SvdR10]. **wildlife-habitat** [BTPG10]. **Will** [PW10b, Fat16b, GAG+12, vdVJS16]. **Willow** [BSP12, HPS10, KØ13]. **Wils** [KKP+17, LGDW12]. **wilt** [NPJ+17]. **Wind** [JX17, DMB+18, DYMYGO19a, DYMYGO19b, HRWT12, KHKC+18, SBM+11, SHB+11a, SMKM19, TKN14, WGE+19, ZWJ+12]. **wind-assisted** [SBM+11]. **wind-borne** [WGE+19]. **Window** [Kat11]. **WINDROT** [HOKH18]. **windrow** [BT16]. **Windthrow** [AMR16]. **Wing** [LAR+16]. **winged** [FDP+10, KK12a]. **Winners** [KTV+15]. **winter** [GLR+19, GHS+10, KKBZ17, LYD+17, MCWG21, MAC+12, PKT15, SMKM19]. **wintering** [EGMW12]. **wintertime** [CQS15]. **within** [ARM+12, BA14a, BLD+10a, BlMG+11, BGC10, CF17, CCC12, CLNN14, DJA+10, GNB+14, Hal11, HM17, JBW+17, KYvdPS14, KPTC14, LHO+16, LWKS10, MK13, MYHN17, MJC+11, MRR+14, OC15, RCSS13, Tul14, UB12, dBGS+14, dOAC18]. **within-field** [GNB+14]. **without** [BS16a]. **Wivenhoe** [CRO13]. **WOFOST** [GCCB18]. **WOFOST-based** [GCCB18]. **wolf** [CWL+16, JSW+13, LDM15a, MAM+10, SGDP19]. **Wolong** [LLL+10]. **Wolonghu** [CZ11]. **wolverines** [MvDL+10]. **wolves** [SGWV15]. **Wonderforest** [TB13]. **Wood**

[TLRL11, LSP+10, LSGT13, LBS+14, PSWM+10, dJGM+18]. **wooded** [IBD+19]. **wooden** [SBC+11]. **woodland** [DHS+16, HMA10a, LHP16, PGR+16]. **woodlands** [PBG+17]. **woodpeckers** [VSPHS15]. **woodpigeon** [OFK+12]. **woodpigeons** [KKI+14]. **woody** [HHUD14, RWFD13, WMF+13]. **word** [Rau11]. **work** [BPU11, Jør15a, Jør15b]. **worked** [PTL14]. **working** [ZWRK13]. **workshop** [WLF+16]. **world** [ABB+10, CC11, Dol10, ISG13, KR10b]. **worlds** [AA12]. **worldwide** [JTB+19]. **worth** [PDBP11]. **Wuhan** [CWLL15]. **Wular** [MSKS13]. **Wuxi** [LWTZ18]. **Wuyishan** [LYC+15a, LYC+15b]. **WV** [ZF11].

xenobiotics [GFP+16]. **Xiamen** [LSZC10, YKZZ14]. **Xiangxi** [CMLY19]. **Xilingol** [SAW+11, YSA+14]. **Xinanjiang** [YDZ+21]. **Xinjiang** [DYU+12, FCG+19, LZLC13].

Yang [XWW+11]. **Yangtze** [GWZ+15, GLS+17, GYL+13, MCL+17, TJYZ11, WSW+13]. **Yasso07** [DFRT14]. **year** [BGGL16, GZK+11, qHLlZ+16, LJ13, NB11]. **years** [Ano17a, CVV+13, CHK+12, GAC+14, JASW18, LBC+15, NJCF11, VASH+16, ZKSF17]. **Yellow** [DSW+17, JHHS17, LLM+13, LC11, XLS11, YYL13, Yan11]. **yellow-billed** [JHHS17]. **yellowfin** [KHW+16]. **yerba** [GCR18, MRB14]. **yerba-mate** [GCR18, MRB14]. **yield** [BDL+14, BS13, FYWA12, KG13, KYvdPS14, LG10, LKG10, LG12, LZZ+14, MCBM12, SX11, Tat16a, Til15, VZF+11, WC19, XBvdV+14, ZCS13, GBP+10]. **Yield-SAFE** [GBP+10]. **yields** [AVL+11, For18a, IGBSASSJ16, Pog11, PPDF14, SKM+16]. **Yinma** [ZLZ+17a]. **yolk** [JNHF18]. **yolk-feeding** [JNHF18]. **York** [HSR+15, WGD+17, NJCF11]. **youngest** [VVH12]. **Yser** [BVP+13]. **Yuan** [WhFxGZ16]. **Yushania** [RBRK16, SGP18]. **YY** [EEB+17]. **YY-males** [EEB+17].

Zambezi [MMS12]. **Zealand** [JBB+11, MP17, PNHL14, PKD11, RFV+12]. **Zebra** [CPS15, Lin15b, KVP16]. **Zebrafish** [KNU+15, HTL+14, LLC11]. **ZELIG** [LAD11]. **ZELIG-CFS** [LAD11]. **zero** [CMT+11, LBE+13, LJ15c]. **zero-inflated** [CMT+11, LBE+13, LJ15c]. **Zhangziying** [LLW+15]. **Zika** [ZYXT18]. **Zoige** [MLB+16]. **Zone** [SPM+18, SEHD18, TZS+14, BH13a, BH13b, CL15b, DBG14b, DBG14a, DWP16, LSR13, OQH+13, PVBC14, QCLW18, UDRA13, WCZ11, ZSKI17]. **zones** [Ber13, DBG14b, DBG14a, FLY13, LLQ+15, OTA16, RV13]. **zoning** [LLP17]. **zoonotic** [MC11]. **zooplankton** [CRUF13, CN10b, JA15a, MF12, PAB13a, QDH+10, SAI10, TM18, TBM+14]. **zooxanthellae** [BMR+18]. **Zostera** [Hos11, KR10a, KvTL+18]. **Zucc** [Oga11].

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