

# A Complete Bibliography of Publications in *Limnology and Oceanography*: 2020–2029

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## Title word cross-reference

<sup>13</sup> [H<sub>ZC</sub><sup>+24</sup>, L<sub>RRP</sub>20, W<sub>WGP</sub>21]. <sup>15</sup> [H<sub>ZC</sub><sup>+24</sup>, S<sub>WS</sub><sup>+22</sup>, W<sub>WGP</sub>21]. <sup>18</sup> [D<sub>LL</sub>20]. <sup>222</sup> [A<sub>CW</sub><sup>+22</sup>]. <sup>223</sup> [L<sub>vBS</sub><sup>+22</sup>]. <sup>224</sup> [L<sub>vBS</sub><sup>+22</sup>]. <sup>34</sup> [H<sub>ZC</sub><sup>+24</sup>]. <sup>th</sup> [B<sub>GM</sub><sup>+22</sup>]. <sup>2</sup> [A<sub>AC</sub><sup>+21</sup>, A<sub>FH</sub><sup>+21</sup>, A<sub>FH</sub><sup>+22</sup>, A<sub>CW</sub><sup>+22</sup>, A<sub>KT</sub><sup>+21</sup>, B<sub>LS</sub>20, C<sub>GR</sub>22, C<sub>T</sub>23, C<sub>TM</sub><sup>+21</sup>, C<sub>CB</sub><sup>+20</sup>, C<sub>SC</sub><sup>+21</sup>, C<sub>MCC</sub>24, C<sub>HS</sub><sup>+20</sup>, D<sub>RA</sub><sup>+23</sup>, E<sub>DC</sub>24, E<sub>BW</sub><sup>+20</sup>, E<sub>WGP</sub>22, G<sub>PB</sub><sup>+20</sup>, H<sub>BS</sub><sup>+22</sup>, H<sub>GA</sub>24, L<sub>LL</sub><sup>+23</sup>, L<sub>SL</sub><sup>+20</sup>, L<sub>TLH</sub>22, M<sub>GP</sub><sup>+21</sup>, M<sub>DWT</sub><sup>+22</sup>, M<sub>RT</sub><sup>+24</sup>, N<sub>B</sub>20, Q<sub>BJG</sub>21, R<sub>RHS</sub><sup>+21</sup>, R<sub>GW</sub><sup>+23</sup>, S<sub>CC</sub><sup>+21</sup>, S<sub>DB</sub><sup>+23</sup>, S<sub>PLJA</sub><sup>+20</sup>, T<sub>ZF</sub><sup>+22</sup>, T<sub>MS</sub><sup>+21</sup>, h<sub>TRH</sub>20, V<sub>LP</sub><sup>+21</sup>, V<sub>KB</sub><sup>+22</sup>, W<sub>RHR</sub>22, W<sub>DG</sub><sup>+21</sup>, W<sub>MRL</sub>22, X<sub>WL</sub><sup>+21</sup>, Y<sub>MSH</sub>20, Y<sub>SHS</sub>22, Y<sub>SHS</sub>23, Y<sub>G</sub>23]. <sup>3</sup> [L<sub>L</sub>23]. <sup>4</sup> [A<sub>FH</sub><sup>+21</sup>, D<sub>RA</sub><sup>+23</sup>]. : [K<sub>MV</sub><sup>+20</sup>]. <sup>δ</sup> [H<sub>ZC</sub><sup>+24</sup>, L<sub>RRP</sub>20, S<sub>WS</sub><sup>+22</sup>, W<sub>WGP</sub>21]. <sup>p</sup> [A<sub>CW</sub><sup>+22</sup>, Y<sub>G</sub>23].

**10.1002** [A<sub>no</sub>21a]. **10.1002/Ino.10504** [A<sub>no</sub>21a]. **12-yr** [B<sub>PG</sub><sup>+22</sup>].

**2011** [T<sub>NK</sub><sup>+22</sup>]. **2016** [C<sub>MT</sub><sup>+20</sup>].

**30** [RCMA21]. **30°** [BSGA21]. **36-month** [GWS+21].

**59°** [BSGA21].

**62** [Ano21a]. **64** [Ano21b].

**8-m** [BGM+22].

**ability** [KMM+22]. **abiotic**

[KPNJ23, LGF22, MTP+23, TZF+22, WRMP22]. **above**

[BZK+22, GPK+21, NH23]. **Abrupt** [BGM+22, GBO+20]. **absorption**

[AVJ+24, SSB+22]. **abundance** [BMR+21b, BBGM20, GFW+20, LBBM21,

LPMBR23, MBD+22, MCYR20, SSH+22]. **abundances**

[EPR+24, SML+21a]. **acantharian** [BBGM20]. **accelerate** [CCC+21].

**Accelerated** [AJMG21]. **Acclimation** [GTKW+20, SMD21]. **accounting**

[KHCG+22, LAB+22]. **accounts** [SMW+21]. **accretion**

[CEE+22, MEQBV20, MVBG20]. **accumulation**

[BAG+24, HMP+21, LLK+22, LAB+22, MEQBV20, PBP+23, SSWM20,

hTRH20, WSLC22, ZWM22]. **accurate** [KHCG+22]. **achieved** [KTA+21].

**Achilles** [ZvBZ+20]. **acid** [KLG+23, SRM23, VCT+23, WWGP21]. **acidic**

[MNMJ+21, SPLJA+20]. **acidification** [ARFGS23, HDS+20, HSV22,

JHS+21, RVBP23, RBD22, RLP+20, SMG+22, SSEO21, ZLU+20]. **acids**

[DMS+21, EST+24, KHSP21, VST+22, WDS+23]. **acoustically** [GNO22].

**acquisition** [DK20, SdBW+23]. **across** [ARB+22, BMA+20, BCTH20,

BRHS20, CEW+21, CZK+23, CEE+22, DHNH22, DRA+23, DBFC24,

ETMD23, FDF+21, GSP+23, GGLH+22, GCW+23, GLAHH+23, GSD+23,

HDD+22, HLPT20, HM20, JLS+20, JHBB22, KAP+20, KSF+23, LTQS+21,

LHL+21, LHD+20, LCZ+21, MTP+23, MLP+21a, MSB+22, MCH+21,

MKP+23, NH22, PYM+20, PGEB22, RWMP+23, RSLW23, RBAC+20,

RVS+22, SWOR20, SML21b, SHZ+21, SSR+23, TKA21, VCBB20, VMT+24,

VCT+23, VST+22, VMP+21, WRC+21, WCC20, vHHP+22]. **act** [OYM+20].

**active** [BGG+20, EBK+20, PC21, RTK23, SSS+24, XYL+23]. **activities**

[BSGA21, LZD+23]. **activity** [CTP21, CLT+22, GFW+20, KGG+23,

PGN+21, SCC+21, SAD+20, ZYZ+21, vHLV+20]. **acute** [EFP+21].

**adaptation** [LBvE23, LCS+20, MUGL20, RCS+20, ZZCD23]. **adaptations**

[FRRG+21]. **adapted** [CBD+23, KKP+21, TKA21]. **Adaptive**

[WSB+20, CBT+21, DKW+21]. **addition** [BVM+20]. **additionality**

[HGA24]. **additions** [DCF+22, PBC21, VWR+23]. **Adélie** [NCC+21].

**Adirondack** [WK21]. **adjacent** [DKPS23, KSF+23, NCC+21, SORGC+21].

**Adriatic** [CDA+20]. **advances** [SHS+22]. **advancing** [MVBG20]. **advected**

[SLZ+21b]. **advection** [CJB+21]. **advective** [LDG+21]. **Aerobic**

[AWB+23, SSM+22b]. **aerosol** [YAE+23]. **aeruginosa** [MDP+23]. **affect**

[DGTW21, OJUN23, PSNS22, SVBT20, SOT+20, XSZ+21]. **affected**

[IASNCR21, QMG21, TUR+20]. **affects**

[ARPF23, LRNG24, LHS<sup>+</sup>20, RWL<sup>+</sup>24, RBL<sup>+</sup>20, WWB<sup>+</sup>20, vdPAV<sup>+</sup>20].  
**affiliation** [HNS21]. **Africa** [GBB<sup>+</sup>21]. **African** [LL23]. **after**  
 [BWB<sup>+</sup>22, GPB<sup>+</sup>20, HBR<sup>+</sup>22, RVS<sup>+</sup>22]. **aftermath** [KPS21]. **age**  
 [FHM20]. **aged** [KSH<sup>+</sup>23]. **aggregate** [HVMS<sup>+</sup>21, KL22, ZLIP20].  
**aggregate-colonizing** [KL22]. **aggregates** [EWGP22, LCMG<sup>+</sup>20, ZLIP20].  
**aggregation** [ALG<sup>+</sup>23]. **aggregations** [MBLA<sup>+</sup>21]. **aging** [SSS<sup>+</sup>24].  
**Aglantha** [MMKWZ22]. **aids** [LBS22]. **air**  
 [ACW<sup>+</sup>22, CCB<sup>+</sup>20, MBA<sup>+</sup>21, SGM<sup>+</sup>21]. **al** [Ano21b, ZR23, Ano21a]. **al**.  
 [CSH21, PPB<sup>+</sup>21]. **Alaska** [CCDM21, MDDL22, VJH<sup>+</sup>22]. **Alaskan**  
 [MK21, SSR<sup>+</sup>23]. **alewife** [DFJ22, RPA<sup>+</sup>22]. **Alexandrium** [BH21, PHM21].  
**alga** [BK20, GR24, WCH<sup>+</sup>21]. **algae** [FPBG<sup>+</sup>22, LLSQ24, THS21]. **algal**  
 [BMGK22, GTKW<sup>+</sup>20, HPF<sup>+</sup>23, HM20, KAC<sup>+</sup>23, KRC23, KWB21,  
 KNG<sup>+</sup>23, LZG21, SKB<sup>+</sup>22, ZXZ<sup>+</sup>23]. **algal-virus** [HPF<sup>+</sup>23]. **algorithms**  
 [MT23]. **alicyclic** [LPO<sup>+</sup>20]. **aligns** [CGB<sup>+</sup>21]. **alkaline** [BWV<sup>+</sup>20].  
**Alkalinity** [YXC<sup>+</sup>22, DSY20, IMB<sup>+</sup>22]. **alkenone** [THT<sup>+</sup>20].  
**alkenone-producing** [THT<sup>+</sup>20]. **alleviates** [RS20]. **allocation** [ZLS<sup>+</sup>21].  
**allochthonous** [CTP21, KBB<sup>+</sup>22]. **allochthony** [HHK<sup>+</sup>22]. **allometries**  
 [LLMM<sup>+</sup>23]. **allow** [RTK23]. **allows** [HMBB21]. **along**.  
 [ADLW22, AKT<sup>+</sup>21, BGAD<sup>+</sup>22, BWV<sup>+</sup>20, BBL<sup>+</sup>21, CÖL<sup>+</sup>20, CFC<sup>+</sup>20,  
 CCY<sup>+</sup>21, CCDM21, DWS<sup>+</sup>22, EJM<sup>+</sup>23, GEHD20, HHMH22, IMB<sup>+</sup>22,  
 IYW<sup>+</sup>22, JSL<sup>+</sup>23, JWA<sup>vD</sup>22, KPS21, LAFV23, LSC<sup>+</sup>21, MHP<sup>+</sup>23,  
 NSK<sup>+</sup>21, PMF<sup>+</sup>21, RCMA21, SO23, TKW<sup>+</sup>23, TKS<sup>+</sup>20, ZZO<sup>+</sup>21, ZYZ<sup>+</sup>21].  
**Alosa** [DFJ22]. **alpha** [GCEM<sup>+</sup>23]. **Alpine**  
 [SPR22, BVL<sup>+</sup>23, PSE<sup>+</sup>20, PMD<sup>+</sup>23, SDS<sup>+</sup>23, XTL<sup>+</sup>20, DLC<sup>+</sup>22]. **Alps**  
 [ESW<sup>+</sup>21]. **alter** [DKBG21, HEH<sup>+</sup>20, HZS21, MRT<sup>+</sup>24, ZZWL22].  
**alterations** [BCF1<sup>+</sup>22, CMB<sup>+</sup>21]. **altered** [BMH<sup>+</sup>23, LVZ21, RSLW23].  
**alternative** [BSIdG23, SH22, SHBA22]. **alters**  
 [JHBB22, KTH<sup>+</sup>21, MMKWZ22, RLP<sup>+</sup>20, SMD21, ZZT<sup>+</sup>21, ZWM22].  
**altitude** [DCF<sup>+</sup>22]. **Aluminum** [ZLL<sup>+</sup>21, MCS<sup>+</sup>23]. **Amazon**  
 [CBF<sup>+</sup>23, LvBS<sup>+</sup>22, PBP<sup>+</sup>23, PCN22, dMKB<sup>+</sup>20]. **Amazonia** [KDZ<sup>+</sup>24].  
**American** [ETG21, WSB<sup>+</sup>20, YWZ<sup>+</sup>21]. **Amino**  
 [SRM23, WWGP21, DMS<sup>+</sup>21, GAS<sup>+</sup>23, KHSP21, VCT<sup>+</sup>23, WDS<sup>+</sup>23].  
**ammonia** [FSS<sup>+</sup>23]. **ammonium**  
 [ACA<sup>+</sup>22, AWGV20, CEW<sup>+</sup>21, HBR<sup>+</sup>22, MSB<sup>+</sup>22, PCC<sup>+</sup>23, RWS<sup>+</sup>22].  
**among**  
 [BRB<sup>+</sup>20, BFE<sup>+</sup>20, BRB<sup>+</sup>22, CGGC<sup>+</sup>21, CLW<sup>+</sup>21, EWF22, HEH<sup>+</sup>20,  
 HDS<sup>+</sup>20, LTJ<sup>+</sup>20, LLBC20, RCH<sup>+</sup>20, RBR<sup>+</sup>23, SVM<sup>+</sup>22, SRM23].  
**amphipod** [BRB<sup>+</sup>22]. **amplified** [BTK<sup>+</sup>21]. **Anaerobic**  
 [LPA<sup>+</sup>23, ACA<sup>+</sup>22, MWHR<sup>+</sup>22, SSM<sup>+</sup>22b, SZY<sup>+</sup>20]. **Analyses**  
 [GWS<sup>+</sup>21, KLG<sup>+</sup>23, WWGP21, WDS<sup>+</sup>23]. **Analysis**  
 [MMLPRHCG22, vHHP<sup>+</sup>21, CDH<sup>+</sup>21, DMS<sup>+</sup>21, FHM20, HTLP23, LN21,  
 MGWS23, SGM<sup>+</sup>22, WZCK20]. **anammox** [CEW<sup>+</sup>21, CHP<sup>+</sup>24, ZQB<sup>+</sup>21].  
**anchialine** [HBY<sup>+</sup>22]. **Andean** [BLS<sup>+</sup>22, PBGGRB21]. **anhydrase**  
 [SAD<sup>+</sup>20]. **animals** [LG21]. **Annual**

[CVF<sup>+</sup>20, vLWV<sup>+</sup>20, FR23, SDL22, vdPMF<sup>+</sup>21]. **Anomalous** [CJB<sup>+</sup>21]. **anoxia** [AJMG21, CCC<sup>+</sup>21]. **anoxic** [HBR<sup>+</sup>22, KdED<sup>+</sup>20, SSM<sup>+</sup>22b]. **Antarctic** [CFC<sup>+</sup>20, CMT<sup>+</sup>20, NGSS23, BTT23, BJK<sup>+</sup>21, BBL<sup>+</sup>21, CT23, CP22, DAB<sup>+</sup>21, JHvL<sup>+</sup>23, JWA<sup>v</sup>D<sup>+</sup>22, KTH<sup>+</sup>21, LDS<sup>+</sup>20, MSGW<sup>+</sup>20, MP23, MHP<sup>+</sup>23, SGSF20, WOMWR20, YAH<sup>+</sup>21, vLWV<sup>+</sup>20]. **Antarctica** [LWvdM<sup>+</sup>21, NCC<sup>+</sup>21, SSP<sup>+</sup>20, DAB<sup>+</sup>21]. **Antecedent** [TKM<sup>+</sup>22, RVS<sup>+</sup>22]. **Anthropocene** [BAG<sup>+</sup>24, KDW<sup>+</sup>23]. **Anthropogenic** [MLL<sup>+</sup>21, CLW<sup>+</sup>21, FBK<sup>+</sup>22, LDB<sup>+</sup>20, WM20, ZYZ<sup>+</sup>21]. **anticyclone** [WCC20]. **apex** [MWV22]. **aphotic** [LLL<sup>+</sup>23]. **appendicularian** [MLS<sup>+</sup>21]. **application** [LCMG<sup>+</sup>20, SHPW22]. **Applications** [DAN<sup>+</sup>22]. **Applying** [WRMP22]. **approach** [ALG<sup>+</sup>23, ASL<sup>+</sup>24, DNA<sup>+</sup>22, FMT<sup>+</sup>20, GCEM<sup>+</sup>23, GBW24, KBSA21, KHCG<sup>+</sup>22, VMP<sup>+</sup>21]. **approaches** [GWS<sup>+</sup>21, KSF<sup>+</sup>23, LAB<sup>+</sup>22, MLB<sup>+</sup>21, PMJ<sup>+</sup>21, ST22, WAPC20]. **approaching** [AR20]. **aquatic** [BBMD20, CBPNA22, GF21, GMMW20, HEH<sup>+</sup>20, HTSG21, HGMK22, MLB<sup>+</sup>21, MGWS23, QS21, SHS<sup>+</sup>22, SPHH22, YJB<sup>+</sup>20, ZN20]. **aquifer** [BKMY21, KPM<sup>+</sup>20]. **archaea** [SZY<sup>+</sup>20]. **archaeoplankton** [WPY<sup>+</sup>20]. **archetypes** [LWH<sup>+</sup>23]. **Archipelago** [vHLV<sup>+</sup>20, SBV<sup>+</sup>21]. **archives** [TJW<sup>+</sup>22]. **Arctic** [SBM<sup>+</sup>21, TMS<sup>+</sup>21, BCA<sup>+</sup>20, BOC<sup>+</sup>21, BPG<sup>+</sup>22, CLD<sup>+</sup>23, CM20b, CGB<sup>+</sup>21, GPK<sup>+</sup>21, HZM<sup>+</sup>21, HTSG21, HGH<sup>+</sup>21, IKN<sup>+</sup>21, JLMW21, KAP<sup>+</sup>20, KLG<sup>+</sup>23, KGG<sup>+</sup>23, LAFV23, LMM<sup>+</sup>21, LLC21, LWC<sup>+</sup>24, LXC<sup>+</sup>21b, LDB<sup>+</sup>21, MMKWZ22, MKBSK19, MN20, MKD22, MGRR<sup>+</sup>21, NB23, PGN<sup>+</sup>21, PLB<sup>+</sup>21, RRHS<sup>+</sup>21, RGW<sup>+</sup>23, RCS<sup>+</sup>20, SJR21, SMCS23, SHE<sup>+</sup>21, SZA<sup>+</sup>21, SJJ<sup>+</sup>21, SSR<sup>+</sup>23, TVB<sup>+</sup>21, VCT<sup>+</sup>23, VMP<sup>+</sup>21, WCH<sup>+</sup>21, WRHR22, WM20, XKP<sup>+</sup>22, ZZO<sup>+</sup>21, ZXE<sup>+</sup>23, vdPAV<sup>+</sup>20, vdPMF<sup>+</sup>21]. **area** [CHS<sup>+</sup>20, CBS<sup>+</sup>21, IJSC20, PPB<sup>+</sup>21]. **areas** [DvOH<sup>+</sup>20]. **Argo** [WF22]. **argus** [BFCC<sup>+</sup>21]. **arid** [LRM21]. **arsenic** [PCJ<sup>+</sup>21]. **arthropod** [KPNJ23]. **artificial** [ARB<sup>+</sup>22, MTB<sup>+</sup>21, SJH20]. **artificially** [DMCW23]. **ascidians** [JSW<sup>+</sup>21]. **ASLO** [Ano20a]. **assemblage** [PATL<sup>+</sup>23, RLP<sup>+</sup>20]. **assemblages** [ASL<sup>+</sup>24, SKB<sup>+</sup>22, SSB<sup>+</sup>22]. **assembly** [IYW<sup>+</sup>22, SGS22]. **assessed** [CDH<sup>+</sup>21]. **Assessing** [AVJ<sup>+</sup>24, HTLP23, KSR20]. **assessment** [DAN<sup>+</sup>22, GAS<sup>+</sup>23, MLP<sup>+</sup>21a, SRL<sup>+</sup>20, TRS<sup>+</sup>20, WMTJW22]. **assessments** [CBC<sup>+</sup>22]. **Assimilation** [ORE20, SHE<sup>+</sup>21, AHCJ<sup>+</sup>20]. **associated** [AAC<sup>+</sup>21, BSGA21, BRB<sup>+</sup>20, BDMGH<sup>+</sup>23, CKH<sup>+</sup>21, CMB<sup>+</sup>21, Edm21b, FKN21, HMP<sup>+</sup>21, HZZ<sup>+</sup>20, HGF<sup>+</sup>21, KFHS24, LBBM21, MEQBV20, RVBP23, WPY<sup>+</sup>20, WRHR22]. **association** [Edm21a, WO21, XKP<sup>+</sup>22]. **Associations** [LEK<sup>+</sup>22, LVZ21, RCMA21]. **asynchronous** [WSZ22a, WSZ22b]. **asynchrony** [VCBB20]. **Atacama** [SML<sup>+</sup>21a, FUUG<sup>+</sup>21]. **Atchafalaya** [Roy20]. **Atlantic** [LL23, SBW<sup>+</sup>20, BMR<sup>+</sup>21a, BAD<sup>+</sup>21, BDL<sup>+</sup>21, BFE<sup>+</sup>20, BAHH<sup>+</sup>20, CGR22, CDH<sup>+</sup>21, CBN21, GLAHH<sup>+</sup>23, HBG<sup>+</sup>22, JLS<sup>+</sup>20, JSL<sup>+</sup>23, KBvdD<sup>+</sup>20, MSG<sup>+</sup>22, SORGC<sup>+</sup>21, SPKM22, SSM<sup>+</sup>22a, WF22, YAH<sup>+</sup>21, YAE<sup>+</sup>23]. **Atlantification** [MMKWZ22]. **atmosphere** [BCL<sup>+</sup>22]. **Atmospheric**

[JOC<sup>+</sup>20, SGM<sup>+</sup>21, SMNT22, VLP<sup>+</sup>21, ZZHZ23, ZLW21b]. **atoll** [FHR<sup>+</sup>21, GLB<sup>+</sup>22]. **atrazine** [BCTH20]. **attenuate** [LPA<sup>+</sup>23]. **Attenuation** [PC21, WDS<sup>+</sup>23, WAPC20, ZXE<sup>+</sup>23, ZXZ<sup>+</sup>23]. **attraction** [SHBA22]. **attributes** [PFB<sup>+</sup>22]. **atyid** [HBY<sup>+</sup>22]. **atypical** [EJM<sup>+</sup>23]. **Aufeis** [HGH<sup>+</sup>21]. **augments** [PFH21]. **Aurelia** [MBC<sup>+</sup>21]. **Australia** [MVBG20, LAB<sup>+</sup>22]. **autochthonous** [KBB<sup>+</sup>22]. **automated** [FHMK20, KAC<sup>+</sup>23]. **Autonomous** [LDG<sup>+</sup>21, BRCO21, WDG<sup>+</sup>21]. **autotrophic** [DWW<sup>+</sup>21]. **autumn** [SBM<sup>+</sup>21, SBV<sup>+</sup>21]. **availability** [FBJ<sup>+</sup>23, FNB<sup>+</sup>23, HZM<sup>+</sup>21, HPP<sup>+</sup>21, JHSG<sup>+</sup>24, JWA<sup>v</sup>D<sup>+</sup>22, KLP23, LTLH22, LBG<sup>+</sup>22, LHS<sup>+</sup>20, LSCL21, NCC<sup>+</sup>21, RBL<sup>+</sup>20, SMKS22, WWFS21]. **avoid** [GE22].

**back** [EDC24]. **background** [GLN<sup>+</sup>20, GLN<sup>+</sup>21]. **bacteria** [BMLV24, CCC<sup>+</sup>21, GAS<sup>+</sup>23, HPB<sup>+</sup>21, JHSG<sup>+</sup>24, LES<sup>+</sup>21, MLK<sup>+</sup>22, PDK<sup>+</sup>23, PATL<sup>+</sup>23, RHS<sup>+</sup>22, SJR21, VKGW22, ZLW<sup>+</sup>21a]. **Bacterial** [BLRM24, CCY<sup>+</sup>21, YPF<sup>+</sup>23, ZLL<sup>+</sup>24, BYS<sup>+</sup>23, CLD<sup>+</sup>23, CVF<sup>+</sup>20, KPG<sup>+</sup>23, MZW<sup>+</sup>21, PGN<sup>+</sup>21, PKV20, SPLJA<sup>+</sup>20, ZQB<sup>+</sup>21, ZZT<sup>+</sup>21]. **Bacterioplankton** [CGRGP<sup>+</sup>21, CTP21, WCC20, FW<sup>v</sup>A<sup>+</sup>21, IYW<sup>+</sup>22, LPO<sup>+</sup>20, WCZ<sup>+</sup>20, WPY<sup>+</sup>20, WZCK20, YML<sup>+</sup>21, dMKB<sup>+</sup>20]. **bacterivory** [AH20]. **Baikal** [CYZZ<sup>+</sup>20, ONH<sup>+</sup>20]. **balance** [BMR<sup>+</sup>21a, ESW<sup>+</sup>21, KBSA21, LVDM22]. **balances** [RST<sup>+</sup>21]. **Baltic** [TMKB<sup>+</sup>22, vHLV<sup>+</sup>20, BDMGH<sup>+</sup>23, CGRGP<sup>+</sup>21, CBB<sup>+</sup>22, HPNU20, KPL<sup>+</sup>20, LCHB22, RBR<sup>+</sup>23]. **bank** [RVS<sup>+</sup>22]. **bank-full** [RVS<sup>+</sup>22]. **barcoding** [CSM<sup>+</sup>23]. **Barents** [DGW<sup>+</sup>21]. **barite** [LN21]. **barium** [FSH<sup>+</sup>23]. **barnacle** [FJP<sup>+</sup>21]. **baroclinic** [ILPL20]. **barriers** [DCJB22, SORGC<sup>+</sup>21]. **Basal** [MHL<sup>+</sup>20, VCT<sup>+</sup>23]. **base** [SPR22]. **based** [BMA<sup>+</sup>20, BCWS23, GWS<sup>+</sup>21, HRK<sup>+</sup>22, LWH<sup>+</sup>23, LEB21, LLBC20, MLP<sup>+</sup>21a, MLB<sup>+</sup>21, MK20, RVS<sup>+</sup>22, SBD<sup>+</sup>21, VMP<sup>+</sup>21, WSZ22a, WSZ22b, vHHP<sup>+</sup>22, CBN21]. **Baseline** [CLW<sup>+</sup>21, GBW24, SOO<sup>+</sup>21]. **baselines** [DAN<sup>+</sup>22]. **Basin** [MGI<sup>+</sup>22, AJMG21, CWF<sup>+</sup>22, GGR24, KdED<sup>+</sup>20, KVKS22, LEK<sup>+</sup>22, MACC24, Roy20, SORGC<sup>+</sup>21, SSM<sup>+</sup>22b, DSY20, VCBB20]. **Basin-scale** [MGI<sup>+</sup>22]. **basin-wide** [SORGC<sup>+</sup>21]. **basins** [LLK<sup>+</sup>22, RBR<sup>+</sup>23, SHBA22, SHZ<sup>+</sup>21]. **bathypelagic** [CYZZ<sup>+</sup>20, SSS<sup>+</sup>24]. **Bay** [HSD<sup>+</sup>20, LZG21, MN20, AAB<sup>+</sup>22, LAMG<sup>+</sup>22, SSM<sup>+</sup>22a, WPY<sup>+</sup>20, XYL<sup>+</sup>23, CCB<sup>+</sup>20, FHMK20, MLK<sup>+</sup>22, SCB<sup>+</sup>20, SCT<sup>+</sup>21, TTC<sup>+</sup>22, TRS<sup>+</sup>20, WZCK20]. **bays** [JvKvT<sup>+</sup>20, MZW<sup>+</sup>21]. **be** [MCS<sup>+</sup>23]. **beach** [vEMF<sup>+</sup>20]. **bearing** [BO20, IMB<sup>+</sup>22]. **Beaufort** [CCDM21]. **bed** [ARB<sup>v</sup>S<sup>+</sup>21, MDBI20, PMD<sup>+</sup>23]. **bed-load** [MDBI20]. **bedrocks** [MHVC22]. **beds** [MRH<sup>+</sup>23, YvdHC<sup>+</sup>20]. **Beggiatoaceae** [MLK<sup>+</sup>22]. **behavior** [CLT<sup>+</sup>22, DKBG21, KCT23]. **behavioral** [GFG<sup>+</sup>22]. **behaviors** [CSB22]. **behind** [VSB<sup>+</sup>23]. **being** [MLL<sup>+</sup>21]. **below** [BZK<sup>+</sup>22, QBJG21]. **belowground** [CEE<sup>+</sup>22]. **bending** [SMF20]. **benefits** [JOC<sup>+</sup>20, OLR<sup>+</sup>23]. **Benner** [LD22]. **Benthic** [HZM<sup>+</sup>21, KPL<sup>+</sup>20, ABS<sup>+</sup>21, BSB<sup>+</sup>20, BMR<sup>+</sup>21b,

BWV<sup>+20</sup>, BZK<sup>+22</sup>, BOC<sup>+21</sup>, CEW<sup>+21</sup>, FKN<sup>21</sup>, HANW<sup>21</sup>, HPCH<sup>24</sup>, HCS<sup>+21</sup>, HBR<sup>+22</sup>, KVKS<sup>22</sup>, LHS<sup>+21</sup>, LBG<sup>+22</sup>, MV<sup>22a</sup>, MV<sup>22b</sup>, MBLA<sup>+21</sup>, MHdS<sup>+21</sup>, PSY<sup>+22</sup>, SLZ<sup>+21a</sup>, TKS<sup>+20</sup>, VCT<sup>+23</sup>, WHZ<sup>+21</sup>].

**Benthic-pelagic** [KPL<sup>+20</sup>, MBLA<sup>+21</sup>]. **bentho** [NvBE<sup>+21</sup>].

**benthic-pelagic** [NvBE<sup>+21</sup>]. **benthos** [CP<sup>22</sup>]. **Bering** [LNC<sup>+23</sup>]. **Bermuda** [CBN<sup>21</sup>]. **beta** [GCEM<sup>+23</sup>, LHL<sup>+21</sup>]. **betaine** [MAD<sup>+22</sup>]. **better** [SBD<sup>+21</sup>].

**between** [BHS<sup>+20</sup>, BMA<sup>+20</sup>, BM<sup>22</sup>, BMLV<sup>24</sup>, BH<sup>21</sup>, CBS<sup>+21</sup>, DWW<sup>+21</sup>, DKPS<sup>23</sup>, FW<sup>21</sup>, GWS<sup>+21</sup>, GBB<sup>+21</sup>, HZM<sup>+21</sup>, HMB<sup>+20</sup>, LEK<sup>+22</sup>, LABM<sup>20</sup>, MCH<sup>+22</sup>, PPB<sup>+21</sup>, QS<sup>21</sup>, SDL<sup>22</sup>, SJJ<sup>+21</sup>, SWS<sup>+22</sup>, SDSGR<sup>21</sup>, SGSD<sup>+22</sup>, VVMJ<sup>23</sup>, WCZ<sup>+20</sup>, XKP<sup>+22</sup>, XTJW<sup>21</sup>, ZQB<sup>+21</sup>, ZLU<sup>+20</sup>, ZFQ<sup>+20</sup>].

**Beyond** [KHCG<sup>+22</sup>]. **bias** [MMLPRHCG<sup>22</sup>]. **biased** [KSI<sup>24</sup>].

**Bidirectional** [EST<sup>+24</sup>]. **Bight** [LMC<sup>+21</sup>]. **bio** [BHG<sup>+24</sup>, BC<sup>20</sup>].

**bio-optical** [BHG<sup>+24</sup>]. **bioactive** [BBA<sup>+23</sup>]. **bioavailability** [DVL<sup>+23</sup>, EJRR<sup>+23</sup>, RBSB<sup>22</sup>]. **biochemical** [Ano<sup>21c</sup>, WRWPG<sup>19</sup>].

**bioconvection** [SBW<sup>21</sup>]. **bioconvection-induced** [SBW<sup>21</sup>].

**biodegradability** [SEK<sup>20</sup>]. **biodegradation** [BKC<sup>20</sup>, CWF<sup>+22</sup>].

**biodiversity** [GCMJ<sup>23</sup>, KPNJ<sup>23</sup>]. **bioerosion** [BFW<sup>+22</sup>]. **Biofilm**

[CTF<sup>+21</sup>, ARvS<sup>+21</sup>]. **biofilms** [MKP<sup>+23</sup>, RBAC<sup>+20</sup>]. **biofouled**

[GLM<sup>+23</sup>]. **biofouling** [KWB<sup>21</sup>]. **biogenic** [BBCA<sup>+21</sup>, IKN<sup>+21</sup>, JHS<sup>+21</sup>, LWC<sup>+24</sup>, MZXY<sup>22</sup>, MY<sup>23</sup>, RNW<sup>+23</sup>, RWL<sup>+24</sup>, ZBNH<sup>+21</sup>].

### **Biogeochemical**

[BYB<sup>+23</sup>, DGTW<sup>21</sup>, RFB<sup>+22</sup>, SBM<sup>+21</sup>, TBH<sup>+22</sup>, VCB<sup>20</sup>, WF<sup>22</sup>, WAPC<sup>20</sup>, BVM<sup>+20</sup>, CBD<sup>+23</sup>, EFC<sup>+23</sup>, FDF<sup>+21</sup>, GMMW<sup>20</sup>, KSF<sup>+23</sup>, LLMM<sup>+23</sup>, LGI<sup>+20</sup>, LZG<sup>21</sup>, LBG<sup>+22</sup>, MHD<sup>+22</sup>, MBD<sup>+23</sup>, MPW<sup>+23</sup>, SSP<sup>+20</sup>, TKH<sup>21</sup>, TCP<sup>+22</sup>, VMT<sup>+24</sup>, WOK<sup>+21</sup>, ZSD<sup>+20</sup>].

**Biogeochemical-Argo** [WF<sup>22</sup>]. **Biogeochemistry**

[JLMW<sup>21</sup>, FBJ<sup>+23</sup>, JSB<sup>+20</sup>, KDZ<sup>+24</sup>, LWvdM<sup>+21</sup>]. **Biogeography** [MCH<sup>+21</sup>, MZW<sup>+21</sup>, BLRM<sup>24</sup>, MBD<sup>+22</sup>, PYM<sup>+20</sup>]. **Biogeomorphic**

[QMG<sup>21</sup>, CZH<sup>+21</sup>]. **Biological**

[CGD<sup>22</sup>, GMNG<sup>+24</sup>, MGL<sup>22</sup>, NTJ<sup>+20</sup>, ARvS<sup>+21</sup>, BGM<sup>+22</sup>, DMS<sup>+21</sup>, DLL<sup>20</sup>, GBB<sup>+21</sup>, KTH<sup>+21</sup>, KBL<sup>+20</sup>, LTQS<sup>+21</sup>, MK<sup>21</sup>, ORRMD<sup>+21</sup>, PFH<sup>21</sup>, PVSP<sup>+22</sup>, PJRV<sup>23</sup>, QRWT<sup>+22</sup>, TKS<sup>+20</sup>]. **biomarkers** [PMF<sup>+21</sup>].

**biomass** [BRCO<sup>21</sup>, FBV<sup>23</sup>, HNS<sup>21</sup>, KTWGT<sup>20</sup>, LCS<sup>+20</sup>, LDB<sup>+20</sup>, LCZ<sup>+21</sup>, MTP<sup>+23</sup>, MSJ<sup>21</sup>, PBC<sup>21</sup>, QS<sup>21</sup>, SBB<sup>20</sup>, YAP<sup>+22</sup>]. **biomasses** [EG<sup>20</sup>].

**biophysical** [ASH<sup>+20</sup>]. **biospheric** [BJK<sup>+21</sup>]. **Biotic**

[BC<sup>20</sup>, LGF<sup>22</sup>, MTP<sup>+23</sup>, MOW<sup>+22</sup>, TZF<sup>+22</sup>, WWB<sup>+20</sup>, WRMP<sup>22</sup>].

**biotoxins** [THS<sup>21</sup>]. **bioturbation** [BSB<sup>+20</sup>]. **bioturbators** [ZSF<sup>+23</sup>].

**biovolume** [MNM<sup>+21</sup>]. **bivalve** [GPB<sup>+20</sup>, MIR<sup>+22</sup>, WTvd<sup>+22</sup>]. **Biwa**

[LDB<sup>+20</sup>, LDB<sup>+21</sup>]. **black** [BND<sup>+23</sup>, RCH<sup>+20</sup>, SO<sup>23</sup>, SGSD<sup>+22</sup>].

**black-box** [RCH<sup>+20</sup>]. **blackwater** [TUR<sup>+20</sup>]. **bleaching**

[Ano<sup>21c</sup>, CBC<sup>+22</sup>, RFB<sup>+22</sup>, WRWPG<sup>19</sup>]. **bloom**

[BMH<sup>+23</sup>, CGRGP<sup>+21</sup>, CMT<sup>+20</sup>, GMNG<sup>+24</sup>, GAS<sup>+21</sup>, HPP<sup>+21</sup>, KRC<sup>23</sup>, LZG<sup>21</sup>, MBB<sup>+20</sup>, MLS<sup>+21</sup>, PHM<sup>21</sup>, WOT<sup>+23</sup>, XMP<sup>+21</sup>]. **bloom-forming**

[BMH<sup>+23</sup>]. **blooming** [MBC<sup>+21</sup>]. **blooms**

[BAHH<sup>+</sup>20, HM20, HMB<sup>+</sup>22, KAC<sup>+</sup>23, Roy20, SVC<sup>+</sup>22, SLJ<sup>+</sup>22, SKB<sup>+</sup>22, SRL<sup>+</sup>20, THT<sup>+</sup>20, THS21, ZXZ<sup>+</sup>23]. **Blue** [HMP<sup>+</sup>21, HGA24, FGP22, KBB<sup>+</sup>22, KHCG<sup>+</sup>22, LGQ<sup>+</sup>21, LAB<sup>+</sup>22, XWL<sup>+</sup>21, OGD20]. **bluefin** [OFM<sup>+</sup>21]. **Body** [GNO22, CHAA21, LDB<sup>+</sup>20, PMRG20, dJGCS23]. **Boeckella** [MSGW<sup>+</sup>20]. **bog** [SGL<sup>+</sup>23]. **boreal** [AVJ<sup>+</sup>24, AKT<sup>+</sup>21, CHS<sup>+</sup>20, FSM<sup>+</sup>21, KSH<sup>+</sup>23, MBA<sup>+</sup>21, MHSL22, MNMJ<sup>+</sup>21, RSLW23, RBSB22, VST<sup>+</sup>22]. **Borealization** [MN20]. **Both** [MTP<sup>+</sup>23]. **Bothnian** [RvHF<sup>+</sup>20]. **Bottom** [BD22, NH22, BMA<sup>+</sup>20, DHNH22, GÖA<sup>+</sup>23, LAFV23, LLBC20, PMD<sup>+</sup>23]. **Bottom-up** [BD22, BMA<sup>+</sup>20, GÖA<sup>+</sup>23, LLBC20]. **bound** [SdBW<sup>+</sup>23]. **boundaries** [KHCG<sup>+</sup>22, WSZ22a, WSZ22b]. **boundary** [DHNH22, NH22, NH23]. **box** [RCH<sup>+</sup>20, SO23]. **brackish** [GGS<sup>+</sup>21, HPB<sup>+</sup>21]. **branching** [RBD22]. **Brazil** [PLLM21]. **Brazilian** [BSB<sup>+</sup>20, HMP<sup>+</sup>21, LvBS<sup>+</sup>22, LHD<sup>+</sup>20]. **breakpoints** [PKKS20]. **breakup** [PW22]. **Bringing** [SHPW22]. **brown** [LLSQ24, SGGB21]. **Brownification** [SSM<sup>+</sup>22a]. **browning** [MHSL22, PC21, MSB<sup>+</sup>20]. **budget** [DdEM<sup>+</sup>23, GB23, VJH<sup>+</sup>22]. **budgets** [BBCA<sup>+</sup>21, CBC<sup>+</sup>22]. **buffering** [HSV22]. **builder** [GTKW<sup>+</sup>20]. **bulk** [BSGA21, CZS<sup>+</sup>22]. **buoy** [FIH<sup>+</sup>20]. **buoyant** [FGO<sup>+</sup>20, KWB21]. **burial** [AMO20, BJK<sup>+</sup>21, BSB<sup>+</sup>20, SGA<sup>+</sup>22, SSEO21, ZWM22]. **burrows** [XWL<sup>+</sup>21]. **business** [AAC<sup>+</sup>21]. **business-as-usual** [AAC<sup>+</sup>21].

**C** [LRNG24, HZC<sup>+</sup>24, LRRP20, WWGP21]. **C-storage** [LRNG24]. **C.** [PPB<sup>+</sup>21]. **cable** [HPB<sup>+</sup>21, MLK<sup>+</sup>22]. **CaCO** [LL23]. **caerulea** [LMP<sup>+</sup>20]. **calanoid** [TCS21]. **Calanus** [CSH21, CBS<sup>+</sup>21, PPB<sup>+</sup>21]. **calcification** [CGR22, CBC<sup>+</sup>22, GR24, KNG<sup>+</sup>23, MCH<sup>+</sup>22, RVBP23, dOKC<sup>+</sup>21]. **calcifiers** [MCH<sup>+</sup>22]. **calcifying** [JHS<sup>+</sup>21]. **Calcite** [DSY20]. **Calcium** [GAS<sup>+</sup>21, HXL<sup>+</sup>21, SSCE20, SKA<sup>+</sup>24, SCT<sup>+</sup>21]. **calculation** [KTWGT20]. **Calibrating** [LHGJ21]. **California** [LMC<sup>+</sup>21, PMRG20, ACE<sup>+</sup>22, CMB<sup>+</sup>21, CM20a, KBL<sup>+</sup>20, NTJ<sup>+</sup>20, SWB<sup>+</sup>20]. **californianus** [NTJ<sup>+</sup>20]. **Can** [DMCW23, ETG21, SYMF21, VMT<sup>+</sup>20, AR20, BVGQN22, KSN<sup>+</sup>21, MCS<sup>+</sup>23, MKM<sup>+</sup>23, THS21, ZLG<sup>+</sup>23]. **Canada** [KSH<sup>+</sup>23]. **Canadian** [BAG<sup>+</sup>24, GB21, GB23, PGE22, RCMA21]. **Candidatus** [MLK<sup>+</sup>22]. **cannot** [ZLG<sup>+</sup>23]. **canopies** [TCP<sup>+</sup>22]. **canopy** [CCFF21]. **Canyon** [CFC<sup>+</sup>20]. **canyons** [LNR<sup>+</sup>20]. **capabilities** [BHS20]. **Cape** [SCC<sup>+</sup>21]. **capture** [JSW<sup>+</sup>21, ZPK<sup>+</sup>22]. **Capturing** [LDGB<sup>+</sup>23]. **Carbon** [BMCS23, CM20a, FXD<sup>+</sup>22, GBMKJ22, JHvL<sup>+</sup>23, KRM<sup>+</sup>20, MNM<sup>+</sup>21, SHS<sup>+</sup>22, ZSK<sup>+</sup>21, ACW<sup>+</sup>22, BND<sup>+</sup>23, BMR<sup>+</sup>21a, BCWS23, BRB<sup>+</sup>20, BSF<sup>+</sup>21, BJK<sup>+</sup>21, BCL<sup>+</sup>22, BSB<sup>+</sup>20, BDL<sup>+</sup>21, BPL22, CGC<sup>+</sup>21, CKCB<sup>+</sup>23, CEE<sup>+</sup>22, DGTW21, DWS<sup>+</sup>22, DCF<sup>+</sup>22, DdEM<sup>+</sup>23, DBM<sup>+</sup>23, DK20, DLL20, EJRR23, ESW<sup>+</sup>21, FGP22, FUUG<sup>+</sup>21, GBB<sup>+</sup>21, GLM<sup>+</sup>23, GAS<sup>+</sup>23, HCB<sup>+</sup>22, HMP<sup>+</sup>21, HANW21, HSBC20, HZM<sup>+</sup>21, HNS21, HGA24, HLS<sup>+</sup>22, IFU<sup>+</sup>20, JHSG<sup>+</sup>24, KHK<sup>+</sup>22, KBB<sup>+</sup>22, KHCG<sup>+</sup>22, LVDM22, LDGB<sup>+</sup>23, LDGB<sup>+</sup>24, LZD<sup>+</sup>23, LCHB22, LAB<sup>+</sup>22, MRH<sup>+</sup>23, MGWS23, MMG<sup>+</sup>21,

MRT<sup>+24</sup>, MCYR20, MKM<sup>+23</sup>, MNMJ<sup>+21</sup>, NKH<sup>+23</sup>, OBL21, PBP<sup>+23</sup>, PYY<sup>+20</sup>, PFH21, PC21, PNT<sup>+21</sup>, PVSP<sup>+22</sup>, PJRV23, QRWT<sup>+22</sup>, RVBP23, RMW<sup>+21</sup>, RHA<sup>+23</sup>, RSLW23, RVvB<sup>+23</sup>, RCH<sup>+20</sup>, SBD<sup>+21</sup>, SVMM<sup>+22</sup>, SSS<sup>+24</sup>, SZA<sup>+21</sup>, SML21b, SSEO21, SBL<sup>+21</sup>, SSS<sup>+20</sup>, SWK<sup>+23</sup>, SOT<sup>+20</sup>, SRM23, SKA<sup>+24</sup>, SGS22, TEK<sup>+21</sup>, TKS<sup>+20</sup>, VCT<sup>+23</sup>, VST<sup>+22</sup>, WF22]. **carbon** [WSZ22a, WSZ22b, WM20, XWL<sup>+21</sup>, XDQ<sup>+22</sup>, YAP<sup>+22</sup>, YXC<sup>+22</sup>, YSHS23, ZPK<sup>+22</sup>, ZLU<sup>+20</sup>, ZJW<sup>+22</sup>, ZLL<sup>+21</sup>, ZBNH<sup>+21</sup>, ZWM22, vGDH<sup>+21</sup>, OGD20]. **carbon-uptake** [RCH<sup>+20</sup>]. **Carbonate** [EWGP22, GBB<sup>+21</sup>, BBCA<sup>+21</sup>, CSD<sup>+24</sup>, CBC<sup>+22</sup>, LLK<sup>+22</sup>, SSCE20, SKA<sup>+24</sup>, SCT<sup>+21</sup>]. **carbonic** [SAD<sup>+20</sup>]. **carboxyl** [LPO<sup>+20</sup>]. **carboxyl-rich** [LPO<sup>+20</sup>]. **carcasses** [HCB<sup>+22</sup>]. **Caribbean** [ABC<sup>+21</sup>, GBB<sup>+21</sup>, MSL21, MHMML<sup>+22</sup>]. **Carpathian** [BRB<sup>+22</sup>]. **cascade** [CCY<sup>+21</sup>]. **cascades** [CAV<sup>+22</sup>]. **cascading** [EG20]. **Case** [JLMW21, LTJ<sup>+20</sup>, SWOR20, TMKB<sup>+22</sup>]. **catchment** [BCWS23, CZK<sup>+23</sup>, KSF<sup>+23</sup>, RNW<sup>+23</sup>, RS21]. **catchments** [TKW<sup>+23</sup>]. **catenella** [PHM21]. **causal** [MGWS23]. **cause** [LDGB<sup>+24</sup>, MWV22, NKH<sup>+23</sup>]. **caused** [GBO<sup>+20</sup>, RSLW23, SLZ<sup>+21b</sup>, SKB<sup>+22</sup>]. **causes** [AFH<sup>+22</sup>, Wei24]. **Cd** [LSL<sup>+20</sup>, BYB<sup>+23</sup>, LSL<sup>+20</sup>]. **Ce** [BYB<sup>+23</sup>]. **cell** [HDD<sup>+22</sup>, KTWGT20, LSL<sup>+20</sup>, OBL21]. **cellular** [LSL<sup>+20</sup>]. **center** [CTH<sup>+20</sup>]. **central** [AJMG21, PGN<sup>+21</sup>, HABL<sup>+21</sup>, SBM<sup>+21</sup>, TMKB<sup>+22</sup>, TMS<sup>+21</sup>]. **century** [BGM<sup>+22</sup>, NEB<sup>+22</sup>, TMKB<sup>+22</sup>]. **Ceriodaphnia** [HXL<sup>+21</sup>, ZLG<sup>+23</sup>]. **Cetacean** [WKRL<sup>+23</sup>]. **Cetacean-mediated** [WKRL<sup>+23</sup>]. **CH** [AFH<sup>+21</sup>, DRA<sup>+23</sup>]. **Chaetoceros** [KMM<sup>+22</sup>]. **chain** [MFGF<sup>+22</sup>, SGM<sup>+22</sup>]. **Challenges** [MBD<sup>+23</sup>, BDE<sup>+22</sup>, SHS<sup>+22</sup>]. **chance** [RS20]. **change** [AAC<sup>+21</sup>, ABC<sup>+21</sup>, BSGA21, BMB22, BDE<sup>+22</sup>, BPG<sup>+22</sup>, BFW<sup>+22</sup>, ETG21, FM21, FMT<sup>+20</sup>, GGLH<sup>+22</sup>, KDV<sup>+23</sup>, LAD<sup>+22</sup>, LZM<sup>+21</sup>, LMSN23, MHD<sup>+22</sup>, MDDL22, MPW<sup>+23</sup>, NEB<sup>+22</sup>, SRV<sup>+20</sup>, SEK20, WHAR<sup>+20</sup>, WBB<sup>+21</sup>, WCH<sup>+21</sup>, ZXE<sup>+23</sup>, dSNIB22]. **change point** [PW22]. **Changes** [DNB<sup>+20</sup>, HZS21, MSB<sup>+20</sup>, BHG<sup>+24</sup>, BGM<sup>+22</sup>, DMC<sup>+22</sup>, DAD<sup>+21</sup>, EG20, EPR<sup>+24</sup>, FLH<sup>+23</sup>, GLAHH<sup>+23</sup>, KLO23, KHHZ20, LSC<sup>+21</sup>, LGQ<sup>+21</sup>, LXC<sup>+21b</sup>, MY23, MFM<sup>+21</sup>, MSD23, RSLW23, RGW<sup>+23</sup>, SSS<sup>+20</sup>, SSM<sup>+22a</sup>, SLZ<sup>+21b</sup>, SGM<sup>+21</sup>, XYL<sup>+23</sup>, ZLS<sup>+21</sup>, vEMF<sup>+20</sup>]. **Changing** [YAH<sup>+21</sup>, CBPNA22, DKBG21, DK20, GTKW<sup>+20</sup>, HANW21, HTSG21, JLR<sup>+22</sup>, KBSA21, LGQ<sup>+21</sup>, MLL<sup>+21</sup>, MRT<sup>+24</sup>, PC21, WOMWR20]. **channel** [LGF22]. **Character** [PSNG<sup>+21</sup>]. **characteristics** [CZS<sup>+22</sup>, DGTW21, GPB<sup>+20</sup>, HHMH22, LGF22, MSB<sup>+20</sup>, VMT<sup>+24</sup>]. **Characterization** [HRK<sup>+22</sup>, CBN21, EJRRRC<sup>+23</sup>, TMM<sup>+20</sup>]. **characterize** [OAM<sup>+22</sup>]. **Characterizing** [AHF<sup>+22</sup>, KdED<sup>+20</sup>, KDV<sup>+23</sup>, NGSS23]. **charophytes** [SKA<sup>+24</sup>]. **chemical** [BC20, MRD<sup>+21</sup>, WOMWR20]. **chemistry** [BLS20, CGR22, CSD<sup>+24</sup>, DAB<sup>+21</sup>, EWGP22, FKN21, HSP<sup>+20</sup>, MHVC22, NTJ<sup>+20</sup>, YJB<sup>+20</sup>, YMSH20, ZPK<sup>+22</sup>]. **chemodiversity** [SGSD<sup>+22</sup>]. **chemostasis** [AFH<sup>+21</sup>]. **chemosynthetic** [AGC<sup>+21</sup>].



**chemotone** [AGC<sup>+</sup>21]. **Chesapeake** [CCB<sup>+</sup>20, LZG21, MLK<sup>+</sup>22, SCB<sup>+</sup>20, SCT<sup>+</sup>21, TTC<sup>+</sup>22, WZCK20]. **China** [MLL<sup>+</sup>21, LCZ<sup>+</sup>21, PYY<sup>+</sup>20, SLHL<sup>+</sup>22, WPY<sup>+</sup>20, XDQ<sup>+</sup>22, XMP<sup>+</sup>21, XYL<sup>+</sup>23, ZZWL22, ZZB<sup>+</sup>20]. **chironomid** [MDDL22]. **chloride** [RD23]. **chlorophyll** [DNB<sup>+</sup>20, DMM<sup>+</sup>21, GF21, QFM<sup>+</sup>21, SWOR20, SPLJA<sup>+</sup>20, TMSL22, YJ20, vdPMF<sup>+</sup>21]. **chlorophyll-a** [DMM<sup>+</sup>21, TMSL22, vdPMF<sup>+</sup>21]. **chlorophytes** [AWGV20]. **Chloropicophyceae** [EHC<sup>+</sup>22]. **choice** [VKGW22]. **choline** [MAD<sup>+</sup>22]. **Choquet** [PPB<sup>+</sup>21]. **chromophoric** [AVJ<sup>+</sup>24, ZZT<sup>+</sup>21]. **chronic** [EFP<sup>+</sup>21]. **Chronically** [SIP21]. **chronometers** [LvBS<sup>+</sup>22]. **Chukchi** [RSH<sup>+</sup>20]. **Chydorus** [WNHY21]. **ciliates** [TION23, Wei24]. **Circumpolar** [DAB<sup>+</sup>21, YAH<sup>+</sup>21, YAP<sup>+</sup>22]. **cladoceran** [WNHY21]. **clam** [WOMWR20]. **clarity** [DAN<sup>+</sup>22]. **classification** [LWH<sup>+</sup>23]. **clear** [MLC<sup>+</sup>21]. **clear-water** [MLC<sup>+</sup>21]. **cliff** [CZH<sup>+</sup>21]. **Climate** [LCS<sup>+</sup>20, MLC<sup>+</sup>21, AAC<sup>+</sup>21, BPG<sup>+</sup>22, CMB<sup>+</sup>21, DMM<sup>+</sup>21, DK20, DMCW23, Edm21b, ETG21, FM21, FMT<sup>+</sup>20, HEH<sup>+</sup>20, HFL<sup>+</sup>20, HZM<sup>+</sup>21, KHB22, LLSQ24, LZM<sup>+</sup>21, LMSN23, MHD<sup>+</sup>22, MPW<sup>+</sup>23, NEB<sup>+</sup>22, OSR20, SBH23, SRV<sup>+</sup>20, WHAR<sup>+</sup>20, dSNIB22]. **climate-driven** [ETG21, HFL<sup>+</sup>20]. **climate-sensitive** [HZM<sup>+</sup>21]. **climatic** [CEE<sup>+</sup>22, CVF<sup>+</sup>20, KdED<sup>+</sup>20, MLP<sup>+</sup>21a, MDDL22, MCH<sup>+</sup>21, PMRG20]. **climatology** [PBGGRB21]. **clines** [LCS<sup>+</sup>20]. **Clockwise** [MAP<sup>+</sup>22]. **clonal** [CZH<sup>+</sup>21]. **close** [MKP<sup>+</sup>23]. **Cloudy** [RS20]. **Clytia** [CUS21]. **CO** [ACW<sup>+</sup>22, LSL<sup>+</sup>20, YG23, MHSL22, SdBW<sup>+</sup>23, MZW<sup>+</sup>21, MCYR20, VGvdB<sup>+</sup>21, YSHS22, ZZT<sup>+</sup>21, AFH<sup>+</sup>21, ACW<sup>+</sup>22, AKT<sup>+</sup>21, BLS20, CT23, CTM<sup>+</sup>21, CCB<sup>+</sup>20, CSC<sup>+</sup>21, CMCC24, CHS<sup>+</sup>20, DRA<sup>+</sup>23, HGA24, MGP<sup>+</sup>21, MRT<sup>+</sup>24, NB20, RRHS<sup>+</sup>21, SDB<sup>+</sup>23, SPLJA<sup>+</sup>20, VLP<sup>+</sup>21, XWL<sup>+</sup>21, YMSH20, YSHS22, YSHS23, KMV<sup>+</sup>20, KMM<sup>+</sup>22]. **Co-acquisition** [SdBW<sup>+</sup>23]. **co-existence** [MCYR20]. **co-limitation** [YSHS22]. **Co-occurrence** [MHSL22, MZW<sup>+</sup>21, ZZT<sup>+</sup>21]. **co-occurring** [VGvdB<sup>+</sup>21]. **coal** [BWV<sup>+</sup>20]. **coast** [CCDM21, NSK<sup>+</sup>21, PBP<sup>+</sup>23, SPKM22]. **Coastal** [GÖA<sup>+</sup>23, LHS<sup>+</sup>21, LMS<sup>+</sup>21, MIR<sup>+</sup>22, NEB<sup>+</sup>22, SSS<sup>+</sup>20, ZLW21b, AMO20, BND<sup>+</sup>23, BPIBN20, BMR<sup>+</sup>21b, BGAD<sup>+</sup>22, BJS<sup>+</sup>23b, BWSW24, BKMY21, CSM<sup>+</sup>23, CTP21, CGD22, CPBJR<sup>+</sup>21, CCG<sup>+</sup>22, DCJB22, EJRR23, FBR<sup>+</sup>23, FBJ<sup>+</sup>23, FWDY20, HRK<sup>+</sup>22, HPB<sup>+</sup>21, HSV22, IÁSNCR21, JLW<sup>+</sup>23, KLO23, KHK<sup>+</sup>22, KdED<sup>+</sup>20, KSF<sup>+</sup>23, KRM<sup>+</sup>20, LRNG24, LTH21, LCHB22, LRM21, MHG<sup>+</sup>23, MBC<sup>+</sup>21, MAD<sup>+</sup>22, MCS<sup>+</sup>23, MKD22, NSK<sup>+</sup>21, NGSS23, PYY<sup>+</sup>20, PLLM21, QS21, SOSN23, SMG<sup>+</sup>22, SCC<sup>+</sup>21, SRV<sup>+</sup>20, SLZ<sup>+</sup>21b, SOT<sup>+</sup>20, SSR<sup>+</sup>23, SSB<sup>+</sup>22, TNK<sup>+</sup>22, TJW<sup>+</sup>22, THVJ23, TMKB<sup>+</sup>22, WHAR<sup>+</sup>20, WWB<sup>+</sup>20, WHZ<sup>+</sup>21, YML<sup>+</sup>21, YGD<sup>+</sup>21, ZSD<sup>+</sup>20, ZJW<sup>+</sup>22, ZSZ<sup>+</sup>22, ZWM22, vHLV<sup>+</sup>20, vHHP<sup>+</sup>21, vLWV<sup>+</sup>20]. **coastline** [BGAD<sup>+</sup>22]. **cobalt** [KMV<sup>+</sup>20, WXK<sup>+</sup>22]. **coccolithophore** [GBB<sup>+</sup>21, JLR<sup>+</sup>22, ZLS<sup>+</sup>21]. **coccolithophores** [GDB20]. **coefficient** [ZXE<sup>+</sup>23]. **coerulea** [MBC<sup>+</sup>21]. **coexistence** [LTJ<sup>+</sup>20]. **coherent** [FHR<sup>+</sup>21]. **Cold** [BFW<sup>+</sup>22, GR24, KKP<sup>+</sup>21, MACC24, RCS<sup>+</sup>20].

**cold-adapted** [KKP<sup>+</sup>21]. **Cold-water** [BFW<sup>+</sup>22, GR24, MACC24].  
**colimitation** [LSL<sup>+</sup>20]. **colonial** [DTPV21]. **colonies**  
 [EBW<sup>+</sup>20, SdBW<sup>+</sup>23]. **colonization** [MKBSK19]. **colonizing**  
 [KL22, dOKC<sup>+</sup>21]. **colony** [KOR<sup>+</sup>20, ZSZ<sup>+</sup>21]. **colony-forming** [KOR<sup>+</sup>20].  
**color** [GBHF21]. **Colorado** [DSY20]. **colored** [CM21]. **column**  
 [BRB<sup>+</sup>20, HMB<sup>+</sup>22, KRM<sup>+</sup>20, LHS<sup>+</sup>21, LDS<sup>+</sup>20, PSY<sup>+</sup>22, SGSD<sup>+</sup>22,  
 SGK<sup>+</sup>21, TZF<sup>+</sup>22, TRS<sup>+</sup>20]. **combinations** [GRJ20]. **Combined**  
 [IFU<sup>+</sup>20, WHAR<sup>+</sup>20, SVC<sup>+</sup>22, SN22]. **Combining** [APB<sup>+</sup>23]. **Comment**  
 [LD22, PPB<sup>+</sup>21, CSH21, SB22, ZR23]. **commercial** [HSP<sup>+</sup>20]. **common**  
 [BMH<sup>+</sup>23, BWSW24, MLB<sup>+</sup>21]. **commonality** [LTQS<sup>+</sup>21]. **communities**  
 [BBH<sup>+</sup>20, BAD<sup>+</sup>21, CGRGP<sup>+</sup>21, CCY<sup>+</sup>21, DVL<sup>+</sup>23, EDC24, EJRR23,  
 FBP20, FR23, GCW<sup>+</sup>23, GMS21, HBS<sup>+</sup>22, HBY<sup>+</sup>22, HPCH24, IMB<sup>+</sup>22,  
 KPNJ23, KPS21, LRNG24, LNR<sup>+</sup>20, LBG<sup>+</sup>22, MXL<sup>+</sup>21, MDP<sup>+</sup>23, MHdS<sup>+</sup>21,  
 MOW<sup>+</sup>22, PKKS20, SORGC<sup>+</sup>21, SPHH22, TMS<sup>+</sup>21, VJH<sup>+</sup>22, WPY<sup>+</sup>20,  
 XKP<sup>+</sup>22, XYL<sup>+</sup>23, YML<sup>+</sup>21, ZQB<sup>+</sup>21, dMKB<sup>+</sup>20, dOKC<sup>+</sup>21, vEMF<sup>+</sup>20].  
**community** [AR20, AFK<sup>+</sup>22, BHSG<sup>+</sup>20, BMA<sup>+</sup>20, BMLV24, BVGQN22,  
 CB21b, CVF<sup>+</sup>20, DBFC24, FWvA<sup>+</sup>21, FAB<sup>+</sup>20, FKN21, GSP<sup>+</sup>23,  
 GGHS<sup>+</sup>20, HZS21, HLS<sup>+</sup>22, KHHZ20, MDDL22, MVBG20, OYM<sup>+</sup>20,  
 PKV20, RvHF<sup>+</sup>20, RPKC22, SH22, SGL<sup>+</sup>23, SSM<sup>+</sup>22a, SBV<sup>+</sup>21, SGSD<sup>+</sup>22,  
 TPTS23, WBB<sup>+</sup>21, WCZ<sup>+</sup>20, WMRL22, YAE<sup>+</sup>23].  
**community-environment** [GGHS<sup>+</sup>20]. **Comparative**  
 [MK20, MVBG20, HTLP23]. **Comparing**  
 [LHD<sup>+</sup>20, SHZ<sup>+</sup>21, XTJW21, WTvD<sup>+</sup>22]. **Comparison** [EWF22].  
**compensation** [BWB<sup>+</sup>22, dJGCS23]. **competition**  
 [DWW<sup>+</sup>21, MKL<sup>+</sup>24, PCC<sup>+</sup>23]. **competitive** [SDSGR21]. **Complex**  
 [WSB<sup>+</sup>20, ASL<sup>+</sup>24, BRB<sup>+</sup>22, FBRG23, LSC<sup>+</sup>21, WNHY21]. **complexation**  
 [WOK<sup>+</sup>21]. **complexes** [KLP23, dCLO<sup>+</sup>23]. **Complexities** [LCM<sup>+</sup>22].  
**complexity** [CLC<sup>+</sup>22]. **complicate** [MSJ21]. **complicated** [WPO<sup>+</sup>22].  
**component** [DMS<sup>+</sup>21]. **components** [AMC21, ZZB<sup>+</sup>20]. **composition**  
 [Ano21c, BHSG<sup>+</sup>20, BPIBN20, BYS<sup>+</sup>23, BCFI<sup>+</sup>22, CPB<sup>+</sup>21, CSM<sup>+</sup>23,  
 DVL<sup>+</sup>23, DvOH<sup>+</sup>20, DBM<sup>+</sup>23, EHC<sup>+</sup>22, FBRG23, GAS<sup>+</sup>23, HANW21,  
 HZS21, HCS<sup>+</sup>21, JLS<sup>+</sup>20, KHB22, KAP<sup>+</sup>20, KSR20, LBBM21, LSC<sup>+</sup>21,  
 LXC<sup>+</sup>21b, MO23, PGEB22, PATL<sup>+</sup>23, PGN<sup>+</sup>21, RvHF<sup>+</sup>20, RLP<sup>+</sup>20,  
 RRAO<sup>+</sup>21, SSM<sup>+</sup>22a, SEK20, SBV<sup>+</sup>21, SSB<sup>+</sup>22, SGSD<sup>+</sup>22, TPTS23,  
 TUR<sup>+</sup>20, WRWPG19, WCZ<sup>+</sup>20, XTJW21, ZLIP20, ZZT<sup>+</sup>21, ZYZ<sup>+</sup>21,  
 dMKB<sup>+</sup>20, vdPAV<sup>+</sup>20, vdPMF<sup>+</sup>21]. **compositional** [BSF<sup>+</sup>21].  
**compositions** [SVMM<sup>+</sup>22]. **compound** [DMS<sup>+</sup>21]. **compound-specific**  
 [DMS<sup>+</sup>21]. **compounds**  
 [EBK<sup>+</sup>20, GDB20, LPO<sup>+</sup>20, MZXY22, MY23, MRD<sup>+</sup>21]. **comprehend**  
 [MMLPRHCG22]. **computed** [IKN<sup>+</sup>21, MMLPRHCG22]. **concealed**  
 [DKW<sup>+</sup>21]. **Concentration** [TUR<sup>+</sup>20, AFH<sup>+</sup>21, ARPFGS23, CHS<sup>+</sup>20,  
 CZS<sup>+</sup>22, DNB<sup>+</sup>20, HXL<sup>+</sup>21, LD22, SOSN23, SB22, SZA<sup>+</sup>21, VCBB20].  
**concentration-discharge** [AFH<sup>+</sup>21]. **concentration-driven** [LD22, SB22].  
**Concentrations** [DWS<sup>+</sup>22, BTT23, BCTH20, BAG<sup>+</sup>24, DRA<sup>+</sup>23, DKBG21,

EBK<sup>+20</sup>, RCMA21, TKW<sup>+23</sup>, TMSL22]. **concepts** [GM22]. **Conceptual** [RST<sup>+21</sup>]. **Concurrent** [HSB<sup>+20</sup>]. **conditions** [AH20, CM21, CVF<sup>+20</sup>, LSW<sup>+20b</sup>, MLS<sup>+21</sup>, PHM21, SN22, SBL<sup>+21</sup>, TKM<sup>+22</sup>, WOMWR20, ZLS<sup>+21</sup>, ZXZ<sup>+23</sup>]. **congruence** [GWS<sup>+21</sup>]. **conjugated** [SJH20]. **conjunction** [PMRG20]. **connecting** [MBD<sup>+23</sup>]. **Connectivity** [BGAD<sup>+22</sup>, CPBJR<sup>+21</sup>, DCJB22, DPB<sup>+23</sup>, DFJ22, GLB<sup>+22</sup>, JSB<sup>+20</sup>, MACC24, VVMJ23]. **Consequences** [KTWGT20, MBA<sup>+21</sup>, RGP<sup>+22</sup>, MLP21b, Wei24]. **conserved** [LABM20, SSH<sup>+22</sup>]. **consideration** [WSZ22a, WSZ22b]. **consistent** [EFP<sup>+21</sup>]. **consortia** [CYPRG<sup>+23</sup>]. **constituents** [KSF<sup>+23</sup>]. **constitutes** [PPB<sup>+21</sup>]. **constrain** [KVKS22, ORRMD<sup>+21</sup>]. **Constraining** [MBD<sup>+22</sup>]. **constrains** [MMG<sup>+21</sup>]. **constraints** [FDHS20, FXD<sup>+22</sup>, GFW<sup>+20</sup>, LSDA21, TSX<sup>+23</sup>, WLK<sup>+21</sup>, ZPK<sup>+22</sup>]. **consumer** [HHK<sup>+22</sup>]. **consumers** [MV22a, MV22b, VGSB23]. **consumes** [LES<sup>+21</sup>]. **consuming** [SCB<sup>+20</sup>]. **consumption** [CGC<sup>+21</sup>, HP20, KHSP21, MP23, TZF<sup>+22</sup>]. **contact** [XLN21]. **containing** [ZLW<sup>+21a</sup>]. **contamination** [LMS<sup>+21</sup>]. **content** [BMCS23, HLKD23, HNS21, HGA24, LLMM<sup>+23</sup>, MNM<sup>+21</sup>, OBL21]. **contents** [XSZ<sup>+21</sup>]. **conterminous** [FBK<sup>+22</sup>, GGR24, LWH<sup>+23</sup>]. **contextually** [HMB<sup>+20</sup>]. **contiguous** [BCTH20]. **continent** [LL23]. **continental** [BMA<sup>+20</sup>, CHP<sup>+24</sup>, DMM<sup>+21</sup>, HTLP23, HM20, KTH<sup>+21</sup>, KPS21, LvBS<sup>+22</sup>, MZXY22, MY23, PGEB22, QRWT<sup>+22</sup>, THT<sup>+20</sup>, WRC<sup>+21</sup>, ZLU<sup>+20</sup>]. **contingency** [GGLH<sup>+22</sup>]. **continuous** [LWH<sup>+23</sup>, SEG21]. **continuum** [BMLV24, EJM<sup>+23</sup>, ZYZ<sup>+21</sup>]. **contrasted** [IJSC20]. **Contrasting** [CGB<sup>+21</sup>, DFJ22, DKPS23, GFG<sup>+22</sup>, GBC<sup>+20</sup>, MLK<sup>+22</sup>, RBR<sup>+23</sup>, WTvD<sup>+22</sup>, WRHR22, BCL<sup>+22</sup>, CGL<sup>+21</sup>, LZM<sup>+21</sup>, VMP<sup>+21</sup>]. **contrasts** [BHS20, RHP<sup>+23</sup>]. **Contrib** [Ano20n, Ano20o, Ano20p, Ano20q, Ano20r, Ano20s, Ano20t, Ano20u, Ano20v, Ano20w, Ano20x, Ano20y]. **contribute** [CKCB<sup>+23</sup>, HCB<sup>+22</sup>, HVMS<sup>+21</sup>]. **Contribution** [LLL<sup>+23</sup>, VGSB23, LLSQ24, LAMG<sup>+22</sup>, PJRV23, PMJ<sup>+21</sup>, SBD<sup>+21</sup>]. **Contributions** [XMP<sup>+21</sup>, HLH<sup>+23</sup>, LLTT<sup>+24</sup>, OGD20, WF22]. **contributor** [GKW<sup>+20</sup>, GKW<sup>+21</sup>]. **Control** [CLD<sup>+23</sup>, HPP<sup>+21</sup>, AFH<sup>+21</sup>, GÖA<sup>+23</sup>, JvKvT<sup>+20</sup>, LD22, LGF22, LLBC20, PCJ<sup>+21</sup>, RS20, SB20, VLP<sup>+21</sup>, YOXC23, vdPMF<sup>+21</sup>]. **controlled** [BKMY21, KPM<sup>+20</sup>, KRM<sup>+20</sup>, SCT<sup>+21</sup>, ZZL<sup>+21</sup>]. **controlling** [KNG<sup>+23</sup>, PCC<sup>+23</sup>]. **Controls** [HSV22, LD22, TKW<sup>+23</sup>, ARBvS<sup>+21</sup>, ASH<sup>+20</sup>, CFC<sup>+20</sup>, ESW<sup>+21</sup>, FBK<sup>+22</sup>, HBY<sup>+22</sup>, HPF<sup>+23</sup>, LHS<sup>+21</sup>, LCZ<sup>+21</sup>, MLK<sup>+22</sup>, MT23, PMD<sup>+23</sup>, YMSH20, SB22]. **conundrum** [BC20]. **convection** [AHF<sup>+22</sup>]. **conversion** [SGSF20]. **cope** [VMT<sup>+20</sup>, WTvD<sup>+22</sup>]. **Copepod** [EWF22, KSI24, CHAA21, LDB<sup>+21</sup>, MSGW<sup>+20</sup>, SYMF21, TION23, TVB<sup>+21</sup>, VMP<sup>+21</sup>, XSZ<sup>+21</sup>]. **copepods** [BJS23a, CHA<sup>+24</sup>, HMBB21, KL22, LAFV23, LTJ<sup>+20</sup>, PJRV23, RTK23, SMF20, TCS21, dJGCS23]. **Coping** [CBT<sup>+21</sup>]. **copper** [KP20, WOK<sup>+21</sup>].

**copy** [ZR23]. **Copyright** [Ano20b, Ano20c, Ano20d, Ano20e, Ano20f, Ano20g, Ano20h, Ano20i, Ano20j, Ano20k, Ano20l, Ano20m, Ano21e, Ano21f, Ano21g, Ano21h, Ano21i, Ano21j, Ano21k, Ano21l, Ano21m, Ano21n, Ano21o, Ano21-53, Ano21p, Ano22e, Ano22f, Ano22g, Ano22h, Ano22i, Ano22j, Ano22k, Ano22l, Ano22m, Ano22n, Ano22o, Ano22p, Ano22a, Ano22q, Ano23a, Ano23b, Ano23c, Ano23d, Ano23e, Ano23f, Ano23g, Ano23h, Ano23i, Ano23j, Ano23k, Ano23l, Ano24a, Ano24b, Ano24c]. **Coral** [FKN21, KDW+23, MHMML+22, SSL22, BST+22, BCFI+22, BBCA+21, BFW+22, CÖL+20, CDW+24, CBC+22, Edm21a, EFP+21, FHR+21, GCMJ23, GLB+22, HPCH24, LMS23, LBG+22, LRRP20, MCH+22, MGP+21, MSD23, MACC24, MMLPRHCG22, MDIY23, OLFH21, RMH+22, RBD22, RCH+20, SHBA22, SWZ+23, SSCE20, VVMJ23, dOKC+21]. **coralline** [GR24, KNG+23, WCH+21]. **corallite** [MMLPRHCG22]. **corals** [ABC+21, Ano21c, CTM+21, Edm21b, FPBG+22, LRdGFP23, PMJ+21, RFB+22, WRWPG19]. **core** [LTQS+21]. **cornuta** [HXL+21, ZLG+23]. **correlate** [MSD23]. **corridors** [DCJB22]. **Corrigendum** [Ano21a, Ano21b, Ano21c, CLC+21, GSG+21, GKW+21, LEK+22, MV22a, Phi21, WSZ22a]. **cosmopolitan** [MRT+24]. **count** [MBD+23]. **counter** [YAH+21]. **counteracts** [GGLH+22]. **Countergradient** [DKW+21]. **Coupled** [EG20, HPB+21, RHP+23, ACW+22, BRCO21, BVM+20, LZG21, MBLA+21, MK20, SBB20]. **coupling** [HJWP24, KPL+20]. **covariance** [BBMD20, VLP+21]. **cover** [BGM+21, MGI+22]. **covered** [CVF+20, LDS+20, LXC+21b, PMD+23, SSM+21a, SMCS23]. **crab** [XWL+21]. **crabs** [CJB+21]. **Crassostrea** [MDWT+22, WSB+20]. **creek** [RWMP+23]. **creeks** [WPO+22]. **criteria** [MGWS23, MSJ21]. **Crocospaera** [DFW+20, ZFQ+20]. **crop** [JHSG+24]. **Cross** [FGO+20, DAN+22, GLN+20, GLN+21, GPDA+20]. **cross-scale** [DAN+22]. **cross-shelf** [GPDA+20]. **Cross-shore** [FGO+20, GLN+20, GLN+21]. **crossflow** [JYA21]. **crowding** [ZLG+23]. **cruise** [ZZO+21]. **crustacean** [RVBP23, SO23]. **crustaceans** [BZSF23, WNHY21]. **crustose** [GR24, WCH+21]. **Cruz** [TZF+22]. **cryosphere** [HGH+21]. **cryptophyte** [CT23]. **ctenophores** [CCG+22]. **cues** [BK20, BMGK22, ZSZ+21]. **cultured** [LHGJ21]. **Current** [ACE+22, CMB+21, Lem20, SN22, SSL22, SYMF21, VMT+20, BFCC+21, DAB+21, KBL+20, SWB+20]. **currents** [FBRG23, SLJ+22]. **cyanobacteria** [AWGV20, DCK+22, JSPS24, LBvE23, LEK+22, MTP+23, PSNG+21, WOT+23, WWFS21, ZJ22a, ZJ22b, ZFQ+20]. **cyanobacteria-derived** [PSNG+21]. **cyanobacterial** [EWGP22, FBP20, HMB+22, KRC23, MBB+20, Roy20, SRL+20, XMP+21]. **cyanobacterium** [BMH+23, DTPV21, GFW+20, SDS+23, YG23]. **Cyanothece** [hTRH20]. **cycle** [BPL22, CVF+20, GBO+20, LAMG+22, SSS+20, XYZ+21, ZSD+20]. **cycles** [GMMW20, LLMM+23, NH22, TKH21, vdPMF+21]. **Cyclical** [LMSN23]. **cycling** [ABS+21, BYB+23, BCA+20, CCK+21, CBF+23, CLD+23, DNA+22, FMT+20, HSBC20, HTSG21, HDK+21, JHvL+23, KWS+21, KHCG+22,

LBG<sup>+22</sup>, MPW<sup>+23</sup>, ORRMD<sup>+21</sup>, PCJ<sup>+21</sup>, RLL<sup>+21</sup>, RGP<sup>+22</sup>, SLZ<sup>+21a</sup>, SBW<sup>+20</sup>, THL<sup>+21</sup>, WCC20, WRS<sup>+22</sup>, WOK<sup>+21</sup>, XMP<sup>+21</sup>, ZLL<sup>+24</sup>. **Cyclone** [BJS<sup>+23b</sup>, BPL22, WCC20]. **cyclone-anticyclone** [WCC20]. **Cyclonic** [ZBNH<sup>+21</sup>, ACE<sup>+22</sup>]. **cylindrus** [MLG<sup>+20</sup>]. **Cymodocea** [JREVB21]. **cytometry** [FHMK20].

**Daily** [CGGC<sup>+21</sup>, LSS<sup>+24</sup>]. **Dakota** [THT<sup>+20</sup>]. **damage** [vHHP<sup>+21</sup>]. **dampen** [dJGCS23]. **damping** [SN22, ZLN21]. **Danish** [GBMKJ22]. **Daphnia** [DKW<sup>+21</sup>, DMCW23, LBvE23, MTB<sup>+21</sup>, MKL<sup>+24</sup>, RVBP23, RBL<sup>+20</sup>, VGvdB<sup>+21</sup>, YWZ<sup>+21</sup>, ZSZ<sup>+21</sup>]. **Dardanelles** [CÖL<sup>+20</sup>]. **dark** [KGG<sup>+23</sup>, vdPAV<sup>+20</sup>]. **darkening** [GÖA<sup>+23</sup>]. **darkness** [CBT<sup>+21</sup>, CGB<sup>+21</sup>, MLG<sup>+20</sup>, QBJG21]. **data** [ASH<sup>+20</sup>, BMB22, CZK<sup>+23</sup>, DAD<sup>+21</sup>, MVP<sup>+20</sup>, OAM<sup>+22</sup>, PSY<sup>+22</sup>, WF22]. **data-limited** [ASH<sup>+20</sup>]. **dataset** [PPB<sup>+21</sup>]. **day** [EWGP22, GK22]. **de-eutrophication** [DNB<sup>+20</sup>]. **dead** [BK20, HCB<sup>+22</sup>, MHMML<sup>+22</sup>, dOKC<sup>+21</sup>]. **death** [DFW<sup>+20</sup>]. **decadal** [BBMD20, LDB<sup>+20</sup>, LDB<sup>+21</sup>, SMP21]. **decades** [BMB22, GGLH<sup>+22</sup>]. **decay** [HKM<sup>+20</sup>]. **Deciphering** [BND<sup>+23</sup>]. **decline** [FBK<sup>+22</sup>, YLT<sup>+20</sup>]. **declines** [BWB<sup>+22</sup>, HDD<sup>+22</sup>]. **declining** [PGN<sup>+21</sup>]. **decomposition** [BZK<sup>+22</sup>, ZLL<sup>+21</sup>]. **Deconvolving** [WDS<sup>+23</sup>]. **decoupled** [DMC<sup>+22</sup>]. **decouples** [SCT<sup>+21</sup>]. **decoupling** [NKH<sup>+23</sup>, ZBNH<sup>+21</sup>]. **Decrease** [KLO23, FBV23]. **Decreased** [HXL<sup>+21</sup>]. **decreases** [LLTT<sup>+24</sup>, RVBP23, ZLL<sup>+21</sup>]. **Decreasing** [MGP<sup>+21</sup>]. **Deep** [CKCB<sup>+23</sup>, HMM<sup>+22</sup>, SWOR20, AGC<sup>+21</sup>, AHF<sup>+22</sup>, BMR<sup>+21a</sup>, BZSF23, CYZZ<sup>+20</sup>, CLW<sup>+21</sup>, CPBJR<sup>+21</sup>, FWDY20, GLAHH<sup>+23</sup>, HJWP24, Lem20, MBLA<sup>+21</sup>, MKBSK19, MOW<sup>+22</sup>, OBB<sup>+20</sup>, PFH21, PCN22, REF<sup>+21</sup>, SJH20, SSM<sup>+21a</sup>, SSP<sup>+20</sup>, SPLJA<sup>+20</sup>, SSWM20, SDS<sup>+23</sup>, SHPW22]. **deep-pelagic** [BZSF23]. **Deep-sea** [HMM<sup>+22</sup>, AGC<sup>+21</sup>, BMR<sup>+21a</sup>, CLW<sup>+21</sup>, MBLA<sup>+21</sup>, MKBSK19, OBB<sup>+20</sup>, PCN22]. **deep-silled** [HJWP24]. **deeper** [Ano21a, GSG<sup>+17</sup>]. **deeply** [CYPRG<sup>+23</sup>]. **defense** [HXL<sup>+21</sup>]. **defensive** [ZSZ<sup>+21</sup>]. **deficient** [AHCJ<sup>+20</sup>, BYB<sup>+23</sup>, CBB<sup>+22</sup>, CKCB<sup>+23</sup>, DNA<sup>+22</sup>, EBK<sup>+20</sup>, LVHK20, MLL<sup>+21</sup>, SMW<sup>+21</sup>]. **define** [CSB22]. **Defining** [PPB<sup>+21</sup>]. **definition** [BO20]. **Deforestation** [GBO<sup>+20</sup>]. **deformation** [GLN<sup>+20</sup>]. **degradation** [BMG<sup>+23</sup>, CPB<sup>+21</sup>, FXD<sup>+22</sup>, GAS<sup>+23</sup>, LLC21, PWS<sup>+20</sup>, RLP<sup>+20</sup>, YAH<sup>+21</sup>]. **degree** [KSN<sup>+21</sup>]. **delays** [RVBP23]. **delineated** [BSF<sup>+21</sup>]. **delineation** [BGAD<sup>+22</sup>]. **delivery** [GPDA<sup>+20</sup>]. **Delta** [PYY<sup>+20</sup>, CMCC24, CM21, YLT<sup>+20</sup>, LTH21]. **delta-front** [YLT<sup>+20</sup>]. **deltaic** [LTH21]. **Delving** [GSG<sup>+17</sup>, Ano21a]. **demand** [BMA<sup>+20</sup>, MHG<sup>+23</sup>]. **demands** [BMR<sup>+21a</sup>]. **demersal** [TGE<sup>+21</sup>]. **demography** [MMLPRHCG22]. **demonstration** [SVBT20]. **Denitrification** [CEW<sup>+21</sup>, CHP<sup>+24</sup>, ACA<sup>+22</sup>, RWS<sup>+22</sup>]. **denitrifier** [LPMBR23]. **denitrifying** [ZQB<sup>+21</sup>]. **Density** [CHAA21, HZC<sup>+24</sup>, YJB<sup>+20</sup>]. **Density-dependent** [CHAA21].

**Dependency** [KLG<sup>+</sup>23, GZX<sup>+</sup>22]. **dependent** [BMLV24, CHAA21, GNO22, HGH<sup>+</sup>21, KP20, LMP<sup>+</sup>20, MWHR<sup>+</sup>22, OBL21, SZY<sup>+</sup>20, WHZ<sup>+</sup>21, ZLS<sup>+</sup>21]. **depleted** [SBW<sup>+</sup>20]. **depletion** [SMCS23, SSWM20]. **deposition** [BFE<sup>+</sup>20, GRJ<sup>+</sup>22, SKA<sup>+</sup>24, YAE<sup>+</sup>23, ZLW21b, vEMF<sup>+</sup>20]. **depositional** [HMB<sup>+</sup>20]. **deposits** [KRM<sup>+</sup>20]. **deprivation** [CBT<sup>+</sup>21]. **Depth** [DWS<sup>+</sup>22, KVKS22, LMP<sup>+</sup>20, BSGA21, BMS<sup>+</sup>22, CÖL<sup>+</sup>20, CEE<sup>+</sup>22, DLC<sup>+</sup>22, FGO<sup>+</sup>20, GGR24, GLN<sup>+</sup>21, LAFV23, MTB<sup>+</sup>21, PMF<sup>+</sup>21, SO23, SMKS22]. **Depth-dependent** [LMP<sup>+</sup>20]. **depth-keeping** [FGO<sup>+</sup>20]. **depth-related** [BSGA21]. **depths** [LMS23, SSH<sup>+</sup>22]. **derived** [CDW<sup>+</sup>24, DVL<sup>+</sup>23, DLDF21, PSNG<sup>+</sup>21, SWZ<sup>+</sup>23, SHE<sup>+</sup>21, TNK<sup>+</sup>22, TKS<sup>+</sup>20, vGDH<sup>+</sup>21]. **desert** [BHR<sup>+</sup>23, GRJ<sup>+</sup>22, RGP<sup>+</sup>22]. **design** [KFHS24, RWT<sup>+</sup>21]. **despite** [KTA<sup>+</sup>21, LMM<sup>+</sup>21, MKP<sup>+</sup>23]. **detect** [SYMF21]. **deteriorating** [QMG21]. **deterioration** [HSB<sup>+</sup>20]. **determinations** [ADLW22]. **determine** [BHG<sup>+</sup>24, CSM<sup>+</sup>23, CUS21, GF21, LPMBR23, PGB24, PHM21, WOT<sup>+</sup>23, dSNIB22]. **determines** [JSB<sup>+</sup>20]. **determining** [CZH<sup>+</sup>21]. **Deterministic** [PATL<sup>+</sup>23]. **Detritus** [BVL<sup>+</sup>23, LMP<sup>+</sup>20, SPKM22]. **Detritus-hosted** [BVL<sup>+</sup>23]. **development** [MOW<sup>+</sup>22, MNMJ<sup>+</sup>21, OYM<sup>+</sup>20]. **Diatom** [CMB<sup>+</sup>21, XSZ<sup>+</sup>21, AR20, BVGQN22, CGRGP<sup>+</sup>21, CMT<sup>+</sup>20, FR23, GBC<sup>+</sup>20, HDS<sup>+</sup>20, KSN<sup>+</sup>21, KMM<sup>+</sup>22, KKP<sup>+</sup>21, KP20, LAMG<sup>+</sup>22, MGC<sup>+</sup>20, MRT<sup>+</sup>24, MLG<sup>+</sup>20, OBL21, QBJG21, STB22, SKB<sup>+</sup>22, WRS<sup>+</sup>22, YSHS22, YSHS23, ZLIP20]. **diatom-dominated** [GBC<sup>+</sup>20]. **diatom-rich** [LAMG<sup>+</sup>22]. **Diatoms** [DKBG21, ACE<sup>+</sup>22, AWGV20, BRCO21, CLGH23, CGB<sup>+</sup>21, FLH<sup>+</sup>23, HVMS<sup>+</sup>21, KMV<sup>+</sup>20, KOR<sup>+</sup>20, KLP23, LSL<sup>+</sup>20, LHGJ21, MAP<sup>+</sup>22, MLT<sup>+</sup>21, RWL<sup>+</sup>24, WRHR22, ZLL<sup>+</sup>21, vdPAV<sup>+</sup>20]. **diazotroph** [ALG<sup>+</sup>23, LTLH22, MBD<sup>+</sup>22, SCC<sup>+</sup>21, SWZ<sup>+</sup>23]. **diazotroph-derived** [SWZ<sup>+</sup>23]. **diazotrophic** [DCK<sup>+</sup>22, HBS<sup>+</sup>22, JSPS24]. **Diazotrophs** [WWFS21, FBP20, GFW<sup>+</sup>20, RHS<sup>+</sup>22]. **Diazotrophy** [WOT<sup>+</sup>23]. **Dichtyochophyceae** [LES<sup>+</sup>21]. **die-off** [SVBT20]. **dieback** [HFL<sup>+</sup>20, YOXC23]. **Diego** [GNO22]. **Diel** [KTWGT20, BHG<sup>+</sup>24, BJS23a, GNO22, LGI<sup>+</sup>20, MK21]. **diet** [DvOH<sup>+</sup>20, TION23, VST<sup>+</sup>22]. **differ** [BSIdG23, BMLV24, SWS<sup>+</sup>22]. **differences** [HMBB21, VGvdB<sup>+</sup>21, XSZ<sup>+</sup>21]. **Different** [HEH<sup>+</sup>20, LPO<sup>+</sup>20, SML21b, BRCO21, BRB<sup>+</sup>22, CGGC<sup>+</sup>21, KSN<sup>+</sup>21, MTB<sup>+</sup>21, MHMML<sup>+</sup>22, RBR<sup>+</sup>23, SSL22, XSZ<sup>+</sup>21, ZLS<sup>+</sup>21, ZZB<sup>+</sup>20]. **Differential** [KBB<sup>+</sup>22, RWL<sup>+</sup>24, VKB<sup>+</sup>22]. **differently** [BWSW24, WWFS21]. **differs** [BRB<sup>+</sup>20, JLS<sup>+</sup>20]. **diffuse** [ZXE<sup>+</sup>23]. **diffusion** [ZLIP20]. **digitale** [MMKWZ22]. **dimensional** [CLT<sup>+</sup>22]. **dimensions** [LHL<sup>+</sup>21]. **dimethyl** [MT23, XYZ<sup>+</sup>21]. **dimethylated** [MZXY22, MY23]. **dimethylsulfide** [GMNG<sup>+</sup>24]. **dimethylsulfonylpropionate** [ORRMD<sup>+</sup>21]. **dimethylsulfoxide** [HDK<sup>+</sup>21]. **dimictic** [ACA<sup>+</sup>22, PW22]. **dinitrogen** [SBL<sup>+</sup>21]. **dinoflagellate** [CGRGP<sup>+</sup>21, FHMK20, PHM21]. **dinoflagellates** [CLGH23, FHMK20]. **dioica** [MLS<sup>+</sup>21]. **dioxide** [BCL<sup>+</sup>22, CM20a, DGTW21, HNS21, RVBP23, RHA<sup>+</sup>23, SBL<sup>+</sup>21, SWK<sup>+</sup>23, XDQ<sup>+</sup>22]. **dipole** [LXC<sup>+</sup>21a, WCC20]. **direct**

[MEQBV20]. **direction** [WWB+20]. **directly** [FWvA+21]. **discharge** [AFH+21, FKN21, IASNCR21, KRB+21, KRM+20, MGI+22, PCN22, RTM+21, SZA+21, WLK+21, vdPMF+21]. **discharging** [BKMY21]. **disconnected** [BGAD+22]. **discovery** [DNA+22]. **Disease** [ARB+22]. **disentangled** [GMNG+24]. **Disko** [MN20]. **disparate** [SMW+21]. **Dispersal** [PHM21, DCJB22, GCW+23, MLS+21, ZZL+21, ZSZ+22]. **dispersion** [CTH+20, RPA+22]. **disproportionately** [BKC20]. **disruption** [RS20]. **dissimilatory** [CEW+21, RWS+22]. **dissipation** [PLLM21]. **dissipative** [EWF22]. **dissolution** [BFW+22, EBW+20, LLK+22, LN21, MSG+22, RWL+24, SSCE20, SCT+21]. **dissolvable** [MCS+23]. **Dissolved** [BMR+21a, BCWS23, BSF+21, MRD+21, PNT+21, RMW+21, SGS22, AVJ+24, AKT+21, AMC21, BND+23, BMCS23, BPIBN20, BAD+21, BGG+20, BYS+23, BGM+21, CGGC+21, CPB+21, CTP21, CLC+22, CM21, CCDM21, DVL+23, DPB+23, EJRR23, FAB+20, GB23, HYPG+22, HOB+22, HP20, JSL+23, JSB+20, KAP+20, KMV+20, KDZ+24, KHSP21, KDV+23, LBBM21, LRdGFP23, LMM+21, LD22, LPMBR23, LSC+21, LXC+21b, LPO+20, LHMR23, LMS+21, LSS+24, MGL22, MCS+23, MHP+23, PBC21, PCJ+21, PSNG+21, PWS+20, PC21, QRWT+22, RVBP23, RHA+23, RWMP+23, RSLW23, RCMA21, SJH20, SB20, SB22, SZA+21, SOT+20, SEK20, SCT+21, SGSD+22, TSX+23, VST+22, WMRL22, YWLY20, ZZT+21, ZYZ+21, ZZB+20, dMKB+20]. **Distinct** [AFH+21, CBD+23, LHMR23, WCZ+20, XYL+23, LPO+20, LNC+23, SJJ+21, SKB+22, WWGP21]. **distinguish** [WRMP22, ZLG+23]. **Distinguishing** [DMS+21, DAB+21]. **distributed** [HGF+21]. **Distribution** [BCA+20, BRB+22, dCLO+23, BFCC+21, BBGM20, CBHB21, DCJB22, EBK+20, FBRG23, GGR24, KBL+20, LBBM21, LL23, MLK+22, OFM+21, RBR+23, SMKS22, SCM22, TRS+20, VSB+23, ZZO+21]. **distributional** [GBC+20]. **Distributions** [WOK+21, EPR+24, HBG+22, JSL+23, LAFV23, LWC+24, LLBC20, MT23, PYY+20, YAH+21]. **Disturbance** [WPO+22, BPG+22, LCM+22, SYMF21, ZSD+20, ZTT23]. **disturbances** [LDB+20, RPKC22]. **disturbed** [BCWS23]. **diurnal** [BWSW24]. **Divergent** [QRWT+22, BRB+22]. **Diverse** [FM21, GSP+23, BMCS23, DBFC24, KSN+21, LABM20, MCH+22]. **Diversification** [Gil22]. **diversity** [BOC+21, BBL+21, CML23, CLC+22, CKH+21, FBV23, GCEM+23, GZX+22, HMM+22, LHL+21, LWS+22, MHdS+21, MKP+23, PYM+20, PGEB22, RPKC22, SLHL+22, VSB+23, WNHY21, XTJW21]. **division** [KTWGT20]. **DNA** [CSM+23, CBN21, GWS+21, OGD20, SLHL+22]. **DNA-based** [CBN21, GWS+21]. **DNRA** [CHP+24]. **Do** [WRA+23, KGG+23, RMH+22, SEK20, ZXZ+23]. **DOC** [BMR+21a, HLKD23, MBH+23, MFGF+22]. **does** [CHS+20, LPA+23, RBD22, ZZCD23]. **doi** [Ano21a]. **Dolioletta** [FLW+21]. **doliolid** [FLW+21]. **DOM** [BHSG+20, BKC20]. **Dominance** [NH22, FHMK20, HEH+20, PHM21, SDS+23]. **dominant**

[BSIdG23, BMR<sup>+21a</sup>, KSN<sup>+21</sup>, KRB<sup>+21</sup>, ONH<sup>+20</sup>, SYT<sup>+21</sup>]. **dominate** [FBP20, MSG<sup>+22</sup>]. **dominated** [CMCC24, DKPS23, GBC<sup>+20</sup>, HBS<sup>+22</sup>, JvKvT<sup>+20</sup>, KVKS22, KDV<sup>+23</sup>, NDP<sup>+24</sup>, OMM21, QS21, RMW<sup>+21</sup>, SH22, WCZ<sup>+20</sup>]. **dominates** [VVMJ23]. **Dongshan** [XYL<sup>+23</sup>]. **DOP** [BPIBN20]. **dormant** [ZJ22b]. **Dosidicus** [PMRG20]. **double** [SBH23]. **down** [BMA<sup>+20</sup>, BD22, GÖA<sup>+23</sup>, LLBC20, RS20]. **downslope** [NH22]. **downstream** [RD23]. **drainage** [AFH<sup>+22</sup>, BWV<sup>+20</sup>]. **drift** [FGO<sup>+20</sup>, LLC21, SBM<sup>+21</sup>]. **drifters** [CTH<sup>+20</sup>]. **drive** [AWGV20, AR20, DPB<sup>+23</sup>, DCF<sup>+22</sup>, DLC<sup>+22</sup>, HMB<sup>+20</sup>, LCS<sup>+20</sup>, MV22a, MV22b, PBC21, PATL<sup>+23</sup>, PSK21, SLJ<sup>+22</sup>, SORGC<sup>+21</sup>, SSS<sup>+24</sup>, SGM<sup>+21</sup>, XDQ<sup>+22</sup>]. **driven** [AHF<sup>+22</sup>, BVGQN22, CGRGP<sup>+21</sup>, CSC<sup>+21</sup>, ETG21, EPR<sup>+24</sup>, FBRG23, FHR<sup>+21</sup>, GBC<sup>+20</sup>, GKW<sup>+20</sup>, GKW<sup>+21</sup>, HFL<sup>+20</sup>, HPP<sup>+21</sup>, LD22, LMSN23, MCH<sup>+22</sup>, MKL<sup>+24</sup>, SB22, SLZ<sup>+21b</sup>, TEK<sup>+21</sup>, ZCZ<sup>+23</sup>, vdPMF<sup>+21</sup>]. **driver** [NvBE<sup>+21</sup>, SGS22, ZZWL22]. **Drivers** [ACW<sup>+22</sup>, CCA<sup>+21</sup>, FHMK20, IOS24, MFM<sup>+21</sup>, MAG<sup>+22</sup>, VSB<sup>+23</sup>, BAG<sup>+24</sup>, BMS<sup>+22</sup>, CGGC<sup>+21</sup>, CBPNA22, DAN<sup>+22</sup>, DRA<sup>+23</sup>, GCMJ23, GSD<sup>+23</sup>, GLB<sup>+22</sup>, HTLP23, HHK<sup>+22</sup>, JHBB22, KAP<sup>+20</sup>, KdED<sup>+20</sup>, KOR<sup>+20</sup>, KAC<sup>+23</sup>, KBvdD<sup>+20</sup>, KDV<sup>+23</sup>, LDGB<sup>+24</sup>, LHL<sup>+21</sup>, LHMR23, MBB<sup>+20</sup>, PGE22, RWMP<sup>+23</sup>, RKBT<sup>+23</sup>, SLHL<sup>+22</sup>, TMKB<sup>+22</sup>, VCBB20, WRC<sup>+21</sup>, WRMP22, ZSF<sup>+23</sup>, vLWV<sup>+20</sup>, CHS<sup>+20</sup>]. **drives** [DBB<sup>+21</sup>, DBM<sup>+23</sup>, KDZ<sup>+24</sup>, KBL<sup>+20</sup>, MHdS<sup>+21</sup>, RTM<sup>+20</sup>, RTM<sup>+21</sup>]. **driving** [CZH<sup>+21</sup>]. **dry** [YAE<sup>+23</sup>]. **drying** [CTF<sup>+21</sup>]. **Dual** [TMM<sup>+20</sup>, LLC<sup>+23</sup>]. **due** [AFH<sup>+21</sup>, BHSL21, BGM<sup>+22</sup>, MLP21b, XSZ<sup>+21</sup>]. **duration** [ABC<sup>+21</sup>, CTF<sup>+21</sup>, PW22]. **during** [ACA<sup>+22</sup>, AJMG21, Ano21c, BGM<sup>+22</sup>, BPL22, CCC<sup>+21</sup>, CM20b, GB23, GK22, HRK<sup>+22</sup>, HKM<sup>+20</sup>, KRC23, KTH<sup>+21</sup>, KGG<sup>+23</sup>, MLS<sup>+21</sup>, MDDL22, MAP<sup>+22</sup>, PFH21, SBM<sup>+21</sup>, SGA<sup>+22</sup>, VJH<sup>+22</sup>, WRWPG19, WSB<sup>+20</sup>, WMRL22, XTL<sup>+20</sup>, YWLY20, ZLW21b, vHHP<sup>+22</sup>, vdPAV<sup>+20</sup>]. **dust** [BFE<sup>+20</sup>, GRJ<sup>+22</sup>, LCHB22]. **dye** [CTH<sup>+20</sup>]. **Dynamic** [LXC<sup>+21b</sup>, RRAO<sup>+21</sup>, KDV<sup>+23</sup>, WRMP22]. **Dynamics** [CMT<sup>+20</sup>, ZLU<sup>+20</sup>, AFH<sup>+21</sup>, ACW<sup>+22</sup>, ACA<sup>+22</sup>, AWB<sup>+23</sup>, AR20, AFM23, AVS<sup>+22</sup>, ASL<sup>+24</sup>, BJG<sup>+22</sup>, CGRGP<sup>+21</sup>, CZH<sup>+21</sup>, CÖL<sup>+20</sup>, CAV<sup>+22</sup>, CBHB21, CGL<sup>+21</sup>, CMB<sup>+21</sup>, CKCB<sup>+23</sup>, CLD<sup>+23</sup>, DCF<sup>+22</sup>, DGW<sup>+21</sup>, DFW<sup>+20</sup>, FWvA<sup>+21</sup>, FKN21, FSH<sup>+23</sup>, GGLH<sup>+22</sup>, HJWP24, HPB<sup>+21</sup>, HPF<sup>+23</sup>, HMB<sup>+20</sup>, HS21, HLS<sup>+22</sup>, JvKvT<sup>+20</sup>, JHBB22, KRB<sup>+21</sup>, KdED<sup>+20</sup>, KDW<sup>+23</sup>, KWB21, LVDM22, LMC<sup>+21</sup>, Lem20, LHS<sup>+21</sup>, LN21, LZM<sup>+21</sup>, LNC<sup>+23</sup>, MCH<sup>+22</sup>, MSD23, MAD<sup>+22</sup>, MRD<sup>+21</sup>, MIR<sup>+22</sup>, MPW<sup>+23</sup>, MAP<sup>+22</sup>, NB20, PNT<sup>+21</sup>, QRWT<sup>+22</sup>, RvHF<sup>+20</sup>, RTM<sup>+20</sup>, RTM<sup>+21</sup>, RRHS<sup>+21</sup>, RHM<sup>+21</sup>, SPHH22, SBB20, SO23, SLZ<sup>+21b</sup>, STAK22, VJH<sup>+22</sup>, WOMWR20, XMP<sup>+21</sup>, ZSF<sup>+23</sup>, vHHP<sup>+22</sup>].

**Earlier** [PW22]. **early**



[KPG<sup>+</sup>23, MDWT<sup>+</sup>22, OFM<sup>+</sup>21, SBM<sup>+</sup>21, VCT<sup>+</sup>23, vdPAV<sup>+</sup>20]. **east** [LHS<sup>+</sup>20, MLL<sup>+</sup>21]. **Eastern** [HABL<sup>+</sup>21, AHCJ<sup>+</sup>20, CDH<sup>+</sup>21, CJB<sup>+</sup>21, DNA<sup>+</sup>22, ESW<sup>+</sup>21, EBK<sup>+</sup>20, RCMA21, SORGC<sup>+</sup>21, WRS<sup>+</sup>22, BYB<sup>+</sup>23, EBK<sup>+</sup>20, ETMD23, FSS<sup>+</sup>23, LMM<sup>+</sup>21, MDWT<sup>+</sup>22, SMW<sup>+</sup>21]. **eastward** [DAB<sup>+</sup>21]. **eastward-flowing** [DAB<sup>+</sup>21]. **Eavesdropping** [THS21]. **Ebullition** [LSW<sup>+</sup>20b, LHD<sup>+</sup>20, PSK21, RWT<sup>+</sup>21]. **ebullitive** [KSH<sup>+</sup>23]. **echosounder** [PSY<sup>+</sup>22]. **Ecklonia** [BRHS20, BS20]. **eco** [RNW<sup>+</sup>23]. **eco-surroundings** [RNW<sup>+</sup>23]. **Ecological** [BLS<sup>+</sup>22, DTPV21, MKBSK19, ACE<sup>+</sup>22, ADLW22, ASL<sup>+</sup>24, FDF<sup>+</sup>21, HLH<sup>+</sup>23, KAC<sup>+</sup>23, LZM<sup>+</sup>21, MWV22, SBM<sup>+</sup>21, SOO<sup>+</sup>21, TJW<sup>+</sup>22, VMT<sup>+</sup>24, VMP<sup>+</sup>21]. **ecologically** [LTJ<sup>+</sup>20]. **ecologists** [MLB<sup>+</sup>21]. **ecology** [CDH<sup>+</sup>21, GM22, GMMW20, HDK<sup>+</sup>21, HMB<sup>+</sup>20, LLMM<sup>+</sup>23, LGQ<sup>+</sup>21, MSL21, MBC<sup>+</sup>21, PMRG20, SHPW22, ZR23]. **Ecophysiological** [GK22]. **ecophysiology** [LES<sup>+</sup>21]. **Ecosystem** [MA21, SWB<sup>+</sup>20, VCBB20, BD22, BJS<sup>+</sup>23b, BLS20, BRM<sup>+</sup>23, DLDF21, DMC<sup>+</sup>22, DFJ22, GGS<sup>+</sup>21, GMS21, HFL<sup>+</sup>20, HBY<sup>+</sup>22, HHK<sup>+</sup>22, KVKS22, KDV<sup>+</sup>23, LBBM21, LDG<sup>+</sup>21, LGQ<sup>+</sup>21, LSDA21, MHD<sup>+</sup>22, MHL<sup>+</sup>20, MGWS23, MSG<sup>+</sup>22, MIR<sup>+</sup>22, NTJ<sup>+</sup>20, OBB<sup>+</sup>20, PHB<sup>+</sup>22, PFB<sup>+</sup>22, PSNS22, PHM21, RVvB<sup>+</sup>23, RGP<sup>+</sup>22, SML21b, TKM<sup>+</sup>22, TJW<sup>+</sup>22, VJH<sup>+</sup>22, WWB<sup>+</sup>20, WRC<sup>+</sup>21, WMTJW22]. **ecosystem-metabolism** [PHB<sup>+</sup>22]. **ecosystems** [BSB<sup>+</sup>20, BR22, BGM<sup>+</sup>21, BFW<sup>+</sup>22, CBPNA22, CML23, CLW<sup>+</sup>21, CCDM21, FMT<sup>+</sup>20, GF21, GSD<sup>+</sup>23, HGMK22, HGH<sup>+</sup>21, JLMW21, KHK<sup>+</sup>22, SHS<sup>+</sup>22, SPHH22, SOT<sup>+</sup>20]. **ecotone** [AGC<sup>+</sup>21]. **ecotypes** [TRS<sup>+</sup>20]. **ectotherm** [MLP21b]. **eddies** [ACE<sup>+</sup>22, EWF22, LXC<sup>+</sup>21a, SSA<sup>+</sup>23, ZBNH<sup>+</sup>21]. **Eddy** [GPDA<sup>+</sup>20, BBMD20, VLP<sup>+</sup>21, WCC20]. **edge** [BST<sup>+</sup>22]. **edges** [CZH<sup>+</sup>21]. **edible** [FJP<sup>+</sup>21]. **Editorial** [Ham22, Kir20]. **Edward** [SBV<sup>+</sup>21]. **Eelgrass** [MIR<sup>+</sup>22, ARB<sup>+</sup>22, GGS<sup>+</sup>21, LDGB<sup>+</sup>23, MDBI20, SIP21]. **Effect** [EJRRC<sup>+</sup>23, HLKD23, SYT<sup>+</sup>21, YSHS22, GMS21, LSL<sup>+</sup>20, MXL<sup>+</sup>21, MVBG20]. **effective** [KAP<sup>+</sup>20]. **Effects** [CGR22, DWR<sup>+</sup>23, EDC24, HANW21, HSBC20, HSP<sup>+</sup>20, LLC<sup>+</sup>23, LLC21, MCH<sup>+</sup>21, MOW<sup>+</sup>22, OSR20, PBGGRB21, SSL22, SSWM20, ZLIP20, AFK<sup>+</sup>22, BYS<sup>+</sup>23, BS20, BLS20, BPG<sup>+</sup>22, CGC<sup>+</sup>21, FMT<sup>+</sup>20, FPB<sup>+</sup>23, GGLH<sup>+</sup>22, GLN<sup>+</sup>21, GFG<sup>+</sup>22, JHSG<sup>+</sup>24, JHBB22, KSR20, LRdGFP23, LTLH22, MVP<sup>+</sup>20, MLC<sup>+</sup>21, MO23, MDWT<sup>+</sup>22, MSB<sup>+</sup>20, MGC<sup>+</sup>20, QRWT<sup>+</sup>22, STB22, SSEO21, SCM22, VKB<sup>+</sup>22, VWR<sup>+</sup>23, WRS<sup>+</sup>22, YG23, ZTT23, dJGCS23, BZK<sup>+</sup>22]. **efficiency** [ALH<sup>+</sup>21, BHR<sup>+</sup>23, FDHS20, GZX<sup>+</sup>22, HPCH24, SGSF20]. **Efficient** [KMV<sup>+</sup>20, SWZ<sup>+</sup>23]. **effort** [DFJ22]. **egg** [KSI24]. **eggs** [OLR<sup>+</sup>23, ZLG<sup>+</sup>23]. **eight** [vHHP<sup>+</sup>22]. **ejection** [WSB<sup>+</sup>20]. **Electrona** [DAB<sup>+</sup>21]. **electrothrix** [MLK<sup>+</sup>22]. **Element** [HTSG21]. **Elemental** [EHC<sup>+</sup>22, LLMM<sup>+</sup>23, HMBB21, MV22a, MV22b, STB22, ZLS<sup>+</sup>21]. **Elements** [GGHBS<sup>+</sup>20]. **Elevated** [DCK<sup>+</sup>22, QBJG21, RVBP23, BMH<sup>+</sup>23, BLS20, CGR22, DWR<sup>+</sup>23, EDC24, GPB<sup>+</sup>20, MDWT<sup>+</sup>22, SIP21, VKB<sup>+</sup>22, WRHR22, YG23]. **elevation** [CM20a, DGTW21, SLHL<sup>+</sup>22, VMT<sup>+</sup>24, ZQB<sup>+</sup>21]. **Elucidating** [SCC<sup>+</sup>21].

**embayment** [FWDY20, NSK<sup>+</sup>21]. **emerge** [QMG21]. **emergence** [SDS<sup>+</sup>23].  
**emergent** [HZZ<sup>+</sup>20, VJS<sup>+</sup>20]. **Emerging** [SKB<sup>+</sup>22, LTH21]. **Emilia**  
**Emilia** [KTWGT20, MLS<sup>+</sup>21, ZLS<sup>+</sup>21]. **emission**  
 [BSIdG23, GKW<sup>+</sup>20, GKW<sup>+</sup>21, ZSK<sup>+</sup>21]. **emissions**  
 [AKT<sup>+</sup>21, CMCC24, HABL<sup>+</sup>21, KSH<sup>+</sup>23, LWC<sup>+</sup>24, LPA<sup>+</sup>23, MGI<sup>+</sup>22,  
 PLB<sup>+</sup>21, SPBK21, YOXC23]. **empirical** [GMI<sup>+</sup>21, WRMP22]. **enclosed**  
 [XYL<sup>+</sup>23]. **encode** [RCS<sup>+</sup>20]. **encroaching** [SLJ<sup>+</sup>22]. **encrustations**  
 [SKA<sup>+</sup>24]. **end** [CHS<sup>+</sup>20]. **endemic** [HBY<sup>+</sup>22]. **Endogenous** [CCC<sup>+</sup>21].  
**endorheic** [BGM<sup>+</sup>22, YJB<sup>+</sup>20]. **endosymbionts** [RCH<sup>+</sup>20]. **energetic**  
 [CGGC<sup>+</sup>21]. **Energy** [BMA<sup>+</sup>20, ALH<sup>+</sup>21, CBT<sup>+</sup>21, EST<sup>+</sup>24, MHL<sup>+</sup>20,  
 SGSF20, SDB<sup>+</sup>23, VKGW22]. **Energy-based** [BMA<sup>+</sup>20]. **engineer**  
 [NTJ<sup>+</sup>20]. **engineered** [YJB<sup>+</sup>20]. **engineers** [MIR<sup>+</sup>22]. **England**  
 [HHMH22]. **enhance** [BOC<sup>+</sup>21]. **Enhanced**  
 [HBR<sup>+</sup>22, AMO20, KFHS24, LWC<sup>+</sup>24, MDIY23, ZPK<sup>+</sup>22]. **enhances**  
 [FWT<sup>+</sup>20, QBJG21]. **enriched** [KWS<sup>+</sup>21, ZLW<sup>+</sup>21a]. **enrichment**  
 [BAG<sup>+</sup>24, BS20, BGM<sup>+</sup>21, BRM<sup>+</sup>23, CAV<sup>+</sup>22, DKPS23, GGS<sup>+</sup>21, HHMH22,  
 LZM<sup>+</sup>21, LLTT<sup>+</sup>24, RLL<sup>+</sup>21, YvdHC<sup>+</sup>20]. **entrained** [SYMF21]. **entropy**  
 [CGGC<sup>+</sup>21]. **environment** [AWB<sup>+</sup>23, CPB<sup>+</sup>21, GGHBS<sup>+</sup>20, KWS<sup>+</sup>21,  
 LVZ21, OYM<sup>+</sup>20, RBD22, TRS<sup>+</sup>20]. **Environmental** [KOR<sup>+</sup>20, KAC<sup>+</sup>23,  
 LTJ<sup>+</sup>20, OGD20, PGEB22, SORGC<sup>+</sup>21, CVF<sup>+</sup>20, GGLH<sup>+</sup>22, GCW<sup>+</sup>23,  
 HZC<sup>+</sup>24, IYW<sup>+</sup>22, JHBB22, MY23, MDDL22, PSNG<sup>+</sup>21, PCC<sup>+</sup>23, SSL22,  
 SLHL<sup>+</sup>22, WBB<sup>+</sup>21, WRC<sup>+</sup>21, WCH<sup>+</sup>21, ZLS<sup>+</sup>21, vLWV<sup>+</sup>20].  
**environments** [AMC21, MP23, RCS<sup>+</sup>20, WLSD21]. **enzymatic**  
 [BHS<sup>+</sup>20, BSGA21]. **enzymes** [BSGA21]. **Eodiaptomus** [LDB<sup>+</sup>21].  
**epibiont** [RBL<sup>+</sup>20]. **epibionts** [JHS<sup>+</sup>21]. **epifaunal** [CCFF21]. **epilimnetic**  
 [HSB<sup>+</sup>20]. **episodic** [CJB<sup>+</sup>21, PFH21, RPKC22, YAE<sup>+</sup>23]. **equatorial**  
 [BCA<sup>+</sup>20]. **Erie** [AJMG21, CWF<sup>+</sup>22, LEK<sup>+</sup>22, MDP<sup>+</sup>23]. **erodibility**  
 [HLPT20]. **eroding** [WPO<sup>+</sup>22]. **erosion**  
 [BBCA<sup>+</sup>21, MHMML<sup>+</sup>22, SYT<sup>+</sup>21, WTvD<sup>+</sup>22, YLT<sup>+</sup>20]. **Erratum**  
 [Ano21d]. **essential** [BMR<sup>+</sup>21a, VCT<sup>+</sup>23, VST<sup>+</sup>22]. **established** [PSNS22].  
**establishment** [SH22, ZZL<sup>+</sup>21, vHHP<sup>+</sup>22]. **estimate** [LvBS<sup>+</sup>22].  
**estimated** [GLN<sup>+</sup>21, RST<sup>+</sup>21]. **Estimates**  
 [Wei24, DHNH22, KSI24, MGI<sup>+</sup>22, WLSD21]. **estimating**  
 [LAB<sup>+</sup>22, PMJ<sup>+</sup>21]. **estimation** [VGSB23]. **estuaries**  
 [ACW<sup>+</sup>22, DKPS23, EFC<sup>+</sup>23, HTLP23, IOS24, MLP<sup>+</sup>21a, MHdS<sup>+</sup>21,  
 RTM<sup>+</sup>20, RS21, SDL22, YMSH20]. **Estuarine** [GFG<sup>+</sup>22, AVS<sup>+</sup>22, CEW<sup>+</sup>21,  
 HTLP23, LSC<sup>+</sup>21, PKKS20, SMNT22, SSEO21, SLZ<sup>+</sup>21a]. **Estuary**  
 [LVHK20, BPIBN20, BPL22, BKMY21, FR23, HBS<sup>+</sup>22, HSV22, KBSA21,  
 KDZ<sup>+</sup>24, MURK20, MK21, PGB24, RTM<sup>+</sup>21, RVvB<sup>+</sup>23, TBH<sup>+</sup>22, WAPC20,  
 WLK<sup>+</sup>21, YOXC23, BM22, BMB22, YGD<sup>+</sup>21]. **ethylene** [SBW<sup>+</sup>20].  
**eukaryote** [XKP<sup>+</sup>22]. **eukaryotes** [BMLV24, MK20]. **Eukaryotic**  
 [DLL20, PATL<sup>+</sup>23, SRM23]. **Euphotic** [SWB<sup>+</sup>20]. **European**  
 [DMM<sup>+</sup>21, ESW<sup>+</sup>21, MMKWZ22, ZSK<sup>+</sup>21]. **eutrophic** [AWGV20, BBH<sup>+</sup>20,  
 BHSL21, CGC<sup>+</sup>21, DHNH22, HMB<sup>+</sup>22, JLW<sup>+</sup>23, KRC23, KHHZ20,

MLC<sup>+21</sup>, TBH<sup>+22</sup>, THVJ23, WHAR<sup>+20</sup>, WLK<sup>+21</sup>, vGDH<sup>+21</sup>].

**Eutrophication** [LWS<sup>+22</sup>, XDQ<sup>+22</sup>, ZZT<sup>+21</sup>, BAG<sup>+24</sup>, DNB<sup>+20</sup>, GÖA<sup>+23</sup>, LHS<sup>+21</sup>, MAP<sup>+22</sup>, SVC<sup>+22</sup>, SGA<sup>+22</sup>, WHAR<sup>+20</sup>, ZLU<sup>+20</sup>]. **eutrophied** [QRWT<sup>+22</sup>]. **Evaluating** [CFC<sup>+20</sup>, GWS<sup>+21</sup>, SHBA22]. **evaluation** [ASH<sup>+20</sup>, IKN<sup>+21</sup>]. **evaporation** [FBK<sup>+22</sup>, VLP<sup>+21</sup>].

**evaporation-to-inflow** [FBK<sup>+22</sup>]. **evasion** [SDB<sup>+23</sup>]. **Evasive** [JSW<sup>+21</sup>]. **event** [AFH<sup>+22</sup>, CBC<sup>+22</sup>]. **events** [GRJ<sup>+22</sup>, KdED<sup>+20</sup>, MAG<sup>+22</sup>, TUR<sup>+20</sup>, WSB<sup>+20</sup>, WTvD<sup>+22</sup>, dCLO<sup>+23</sup>].

**Evidence** [DKPS23, HGF<sup>+21</sup>, KPG<sup>+23</sup>, MSGW<sup>+20</sup>, ZLL<sup>+21</sup>, BVM<sup>+20</sup>, CSH21, CBS<sup>+21</sup>, DP22, PPB<sup>+21</sup>]. **evolution** [BST<sup>+22</sup>, LBJS22, OBL21, ZJ22a]. **evolutionary** [HLH<sup>+23</sup>, MTB<sup>+21</sup>, VGvdB<sup>+21</sup>, ZJ22b]. **Evolving** [GM22, ZZCD23].

**exacerbates** [GÖA<sup>+23</sup>, RLL<sup>+21</sup>]. **examination** [WZCK20]. **examined** [FHMK20]. **Examining** [ACE<sup>+22</sup>, AFM23, SPKM22, SMKS22]. **exceeds** [SDB<sup>+23</sup>]. **exceptionally** [JLW<sup>+23</sup>]. **excess** [TMM<sup>+20</sup>]. **exchange** [CSC<sup>+21</sup>, MBA<sup>+21</sup>, NvBE<sup>+21</sup>, SMNT22, TEK<sup>+21</sup>]. **exchange-driven** [TEK<sup>+21</sup>]. **exchangeable** [WXK<sup>+22</sup>]. **exchanges** [TBH<sup>+22</sup>]. **exhibit** [TBH<sup>+22</sup>]. **exhibits** [AFH<sup>+21</sup>]. **existence** [MCYR20]. **exotic** [WHZ<sup>+21</sup>].

**expansion** [CZH<sup>+21</sup>, GAS<sup>+21</sup>, KSH<sup>+23</sup>, NB23, QMG21]. **expansions** [CJB<sup>+21</sup>]. **experiment** [BPG<sup>+22</sup>, GMNG<sup>+24</sup>, KRM<sup>+20</sup>, MKBSK19, OJUN23, SGL<sup>+23</sup>, SSM<sup>+22a</sup>].

**Experimental** [BRM<sup>+23</sup>, DP22, CBPNA22, HKM<sup>+20</sup>, KTA<sup>+21</sup>, KFHS24, SVC<sup>+22</sup>, ZJ22a].

**experiments** [BDE<sup>+22</sup>, BBA<sup>+23</sup>]. **explain** [BVGQN22, DMM<sup>+21</sup>, MTP<sup>+23</sup>]. **explained** [vLWV<sup>+20</sup>]. **explaining** [LPMBR23]. **Exploring** [HM20]. **export** [BCWS23, BRCO21, DBM<sup>+23</sup>, GLM<sup>+23</sup>, KBvdD<sup>+20</sup>, MMG<sup>+21</sup>, RMW<sup>+21</sup>, SDL22, SPKM22, TEK<sup>+21</sup>, WSZ22a, WSZ22b, YAP<sup>+22</sup>, YXC<sup>+22</sup>, ZBNH<sup>+21</sup>, ZYZ<sup>+21</sup>]. **exports** [SOT<sup>+20</sup>]. **exposed** [BOC<sup>+21</sup>, DGTW21]. **Exposure** [ABC<sup>+21</sup>, KDV<sup>+23</sup>, BMH<sup>+23</sup>, CTM<sup>+21</sup>, DWR<sup>+23</sup>, EDC24, GEHD20, GPB<sup>+20</sup>, GK22, MDWT<sup>+22</sup>, MIR<sup>+22</sup>, SSL22, ZFQ<sup>+20</sup>, dSNIB22].

**exposures** [EFP<sup>+21</sup>]. **Expression** [LOW<sup>+20</sup>, BMH<sup>+23</sup>, LTLH22]. **extension** [GR24]. **extent** [BKMY21, DAD<sup>+21</sup>, SMW<sup>+21</sup>, ZZCD23].

**external** [XMP<sup>+21</sup>]. **extinction** [GRJ20]. **extracted** [BAD<sup>+21</sup>]. **extrapallial** [CGR22]. **Extratropical** [BJS<sup>+23b</sup>]. **Extreme** [BTK<sup>+21</sup>, SRN<sup>+21</sup>, TKM<sup>+22</sup>, TUR<sup>+20</sup>]. **extremes** [KDV<sup>+23</sup>, MK21].

**extremities** [TPTS23]. **exudates** [BMG<sup>+23</sup>]. **exudation** [RRAO<sup>+21</sup>].

**facilitate** [GPDA<sup>+20</sup>]. **facilitated** [MBLA<sup>+21</sup>]. **facilitates** [CJB<sup>+21</sup>, MCYR20]. **facilitating** [MBB<sup>+20</sup>]. **facility** [CLGH23]. **Factors** [JREVB21, SOSN23, SBB<sup>+21</sup>, BHG<sup>+24</sup>, CESS21, JSPS24, KBL<sup>+20</sup>, KPNJ23, LGF22, PCC<sup>+23</sup>]. **failed** [SRV<sup>+20</sup>]. **far** [BTK<sup>+21</sup>]. **fast** [KBB<sup>+22</sup>].

**fat** [MN20]. **fate** [CDW<sup>+24</sup>, PGB24, QBJG21, SPKM22, SGK<sup>+21</sup>, ZCZ<sup>+23</sup>]. **fatty** [EST<sup>+24</sup>, KLG<sup>+23</sup>, VST<sup>+22</sup>]. **fauna** [BDMGH<sup>+23</sup>]. **favorable**

[SSA<sup>+</sup>23]. **Fe** [RvHF<sup>+</sup>20]. **Fear** [PVSP<sup>+</sup>22]. **features** [ZZL<sup>+</sup>21]. **featuring** [THL<sup>+</sup>21]. **February** [CMT<sup>+</sup>20]. **Fecal** [SSM21b, DMS<sup>+</sup>21, LG21, MLS<sup>+</sup>21]. **feedback** [MBLA<sup>+</sup>21]. **feedbacks** [MHD<sup>+</sup>22]. **feeding** [CP22, CCG<sup>+</sup>22, CUS21, FRRG<sup>+</sup>21, FLW<sup>+</sup>21, KGG<sup>+</sup>23, RTK23, SYMF21, WSB<sup>+</sup>20, WSZ22a, WSZ22b]. **feeding-current** [SYMF21]. **female** [KSI24]. **fermentation** [NKH<sup>+</sup>23]. **ferruginous** [TZF<sup>+</sup>22]. **fertilization** [BPG<sup>+</sup>22, HSBC20]. **few** [OMM21]. **field** [APB<sup>+</sup>23, BDE<sup>+</sup>22, GLN<sup>+</sup>20, SVBT20, WO21]. **fields** [HGH<sup>+</sup>21]. **filamentous** [FWT<sup>+</sup>20]. **filter** [AMO20, THVJ23]. **final** [BFCC<sup>+</sup>21]. **Fine** [DFW<sup>+</sup>20, ASL<sup>+</sup>24, GBC<sup>+</sup>20, GSD<sup>+</sup>23, GLB<sup>+</sup>22, HCS<sup>+</sup>21, WO21]. **fine-scale** [ASL<sup>+</sup>24, GBC<sup>+</sup>20, GSD<sup>+</sup>23, GLB<sup>+</sup>22, WO21]. **fingerprints** [SRM23]. **finmarchicus** [CBS<sup>+</sup>21, PPB<sup>+</sup>21]. **Fiona** [BJS<sup>+</sup>23b]. **first** [SRL<sup>+</sup>20]. **fish** [APB<sup>+</sup>23, BMA<sup>+</sup>20, BMS<sup>+</sup>22, CESS21, CLT<sup>+</sup>22, CPBJR<sup>+</sup>21, DWR<sup>+</sup>23, EST<sup>+</sup>24, GCMJ23, GPDA<sup>+</sup>20, HXL<sup>+</sup>21, KCT23, LDB<sup>+</sup>20, OLR<sup>+</sup>23, SBD<sup>+</sup>21, SSA<sup>+</sup>23]. **fish-based** [SBD<sup>+</sup>21]. **fisher** [RMH<sup>+</sup>22]. **fisheries** [FGP22]. **fishes** [BZSF23, LDG<sup>+</sup>21, NDP<sup>+</sup>24, WRMP22, WSZ22a, WSZ22b]. **fishing** [DFJ22]. **fitness** [TVB<sup>+</sup>21]. **five** [BMB22]. **fixation** [BMCS23, HBS<sup>+</sup>22, LLL<sup>+</sup>23, LTH21, LTLH22, SCC<sup>+</sup>21, SMW<sup>+</sup>21, SBL<sup>+</sup>21, hTRH20, YSHS23, ZLL<sup>+</sup>21]. **fixed** [FRRG<sup>+</sup>21]. **fixers** [AAC<sup>+</sup>21]. **fixing** [FBP20, HMB<sup>+</sup>22, YG23, ZFQ<sup>+</sup>20]. **fjord** [BHS<sup>+</sup>20, BJK<sup>+</sup>21, BOC<sup>+</sup>21, HJWP24, KHB22, vdPMF<sup>+</sup>21]. **fjords** [HZM<sup>+</sup>21, JLMW21]. **flagellate** [AH20]. **flagellates** [ELS23, LOW<sup>+</sup>20, OMM21, vdPAV<sup>+</sup>20]. **flat** [BD22, SYT<sup>+</sup>21]. **flats** [ZvBZ<sup>+</sup>20]. **Flexible** [VKGW22, ZLN21]. **floating** [RHM<sup>+</sup>21, SYMF21, VJS<sup>+</sup>20]. **floating-leaved** [VJS<sup>+</sup>20]. **foe** [SBM<sup>+</sup>21]. **flood** [RVS<sup>+</sup>22]. **flooding** [TNK<sup>+</sup>22, TUR<sup>+</sup>20]. **floodplain** [LTH21, MGWS23, dMKB<sup>+</sup>20]. **floodplains** [MKP<sup>+</sup>23]. **Florenciella** [LES<sup>+</sup>21]. **Florida** [CLGH23, HSD<sup>+</sup>20, OLFH21]. **Flow** [ZLIP20, ZN20, BMR<sup>+</sup>21b, FHR<sup>+</sup>21, FHMK20, GLN<sup>+</sup>21, GBHF21, LDG<sup>+</sup>21, MDBI20, RBAC<sup>+</sup>20, SVBT20, VKGW22, WSB<sup>+</sup>20]. **Flow-induced** [ZN20]. **flowing** [DAB<sup>+</sup>21]. **flowpaths** [GEHD20]. **flows** [NH22]. **Fluctuating** [WBB<sup>+</sup>21, GK22, SPBK21, ZXZ<sup>+</sup>23]. **fluctuation** [BWSW24]. **fluctuations** [JHS<sup>+</sup>21, WRMP22]. **Fluid** [CUS21, CGR22, STAK22]. **flume** [WTvD<sup>+</sup>22]. **fluorescence** [GF21, LLBC20, RKBT<sup>+</sup>23]. **fluorescence-based** [LLBC20]. **Fluorescent** [BMG<sup>+</sup>23]. **flushing** [XWL<sup>+</sup>21]. **fluvial** [PSE<sup>+</sup>20, PGB24, RBAC<sup>+</sup>20, YLT<sup>+</sup>20]. **flux** [CCB<sup>+</sup>20, CHS<sup>+</sup>20, CBN21, DHNH22, DGTW21, FUUG<sup>+</sup>21, HCB<sup>+</sup>22, HZM<sup>+</sup>21, IKN<sup>+</sup>21, MGWS23, NB20, SBD<sup>+</sup>21, SMNT22, VLP<sup>+</sup>21, WF22, WDS<sup>+</sup>23, WSZ22a, WSZ22b, YMSH20]. **fluxes** [ACW<sup>+</sup>22, GBB<sup>+</sup>21, LXC<sup>+</sup>21a, MCYR20, NSK<sup>+</sup>21, RST<sup>+</sup>21, SWK<sup>+</sup>23]. **focusing** [SGA<sup>+</sup>22]. **following** [CLGH23, CGD22, CBC<sup>+</sup>22, HFL<sup>+</sup>20, KHHZ20, RWS<sup>+</sup>22, SSS<sup>+</sup>20, TKM<sup>+</sup>22]. **Food** [BHR<sup>+</sup>23, BOC<sup>+</sup>21, Gil22, MV22a, MV22b, PSNS22, RBL<sup>+</sup>20,

TSX<sup>+23</sup>, WRC<sup>+21</sup>, APB<sup>+23</sup>, BR22, CDH<sup>+21</sup>, CESS21, CGL<sup>+21</sup>, EG20, FSM<sup>+21</sup>, FWT<sup>+20</sup>, FLW<sup>+21</sup>, GGS<sup>+21</sup>, IFU<sup>+20</sup>, JSPS24, KPL<sup>+20</sup>, KLG<sup>+23</sup>, LTQS<sup>+21</sup>, LCM<sup>+22</sup>, LCHB22, LEB21, MMF<sup>+21</sup>, MLC<sup>+21</sup>, MSB<sup>+20</sup>, SWC<sup>+23</sup>, TCS21, VCT<sup>+23</sup>, WHZ<sup>+21</sup>, YAP<sup>+22</sup>]. **foraging** [CFC<sup>+20</sup>, CSB22, NCC<sup>+21</sup>, STAK22]. **foraminiferal** [XLN21]. **forcing** [CMB<sup>+21</sup>, MK21, SRN<sup>+21</sup>, ZZHZ23]. **forcings** [YJB<sup>+20</sup>]. **fore** [EDC24]. **forecast** [SJH20]. **forecasting** [MO23, THS21]. **forest** [BRM<sup>+23</sup>, PBP<sup>+23</sup>, TCP<sup>+22</sup>, WLS21]. **forested** [AFH<sup>+22</sup>]. **forests** [CESS21, FW21, SOO<sup>+21</sup>, SMKS22]. **form** [VWR<sup>+23</sup>]. **formation** [BC20, CZH<sup>+21</sup>, GAS<sup>+21</sup>, GBC<sup>+20</sup>, HVMS<sup>+21</sup>, PLLM21, YGD<sup>+21</sup>, ZSZ<sup>+21</sup>]. **forming** [BMH<sup>+23</sup>, KOR<sup>+20</sup>]. **forms** [KRC23, SML21b, ZvBZ<sup>+20</sup>]. **Forward** [ZJ22a]. **foundations** [BV21]. **four** [BMR<sup>+21a</sup>, SVMM<sup>+22</sup>]. **fraction** [BCL<sup>+22</sup>]. **fractionated** [KSF<sup>+23</sup>, KSR20, LXC<sup>+21b</sup>]. **fractionation** [HRK<sup>+22</sup>, WOK<sup>+21</sup>, WMRL22]. **fractionations** [ORRMD<sup>+21</sup>]. **fractions** [LHMR23, LMS<sup>+21</sup>]. **Fragilariopsis** [MLG<sup>+20</sup>, MGC<sup>+20</sup>]. **framework** [BBCA<sup>+21</sup>, BFW<sup>+22</sup>, MLB<sup>+21</sup>, MO23, SHPW22]. **Francisco** [BM22, BMB22]. **free** [AHF<sup>+22</sup>, KHSP21, SYMF21, WPY<sup>+20</sup>]. **free-floating** [SYMF21]. **free-living** [WPY<sup>+20</sup>]. **frequency** [CZK<sup>+23</sup>, DAD<sup>+21</sup>, FR23, LGI<sup>+20</sup>, MK21, MKD22, SWK<sup>+23</sup>, SSM<sup>+22a</sup>, VVMJ23, WDG<sup>+21</sup>]. **frequent** [BRB<sup>+22</sup>]. **Fresh** [IÁSNCR21]. **Freshening** [WM20]. **Freshwater** [MLP<sup>+21a</sup>, AMC21, BHSG<sup>+20</sup>, BWV<sup>+20</sup>, BR22, BGM<sup>+21</sup>, BOC<sup>+21</sup>, BLS20, CML23, CKCB<sup>+23</sup>, DWR<sup>+23</sup>, HSBC20, HP20, KWS<sup>+21</sup>, LTQS<sup>+21</sup>, LABM20, MSGW<sup>+20</sup>, MWHR<sup>+22</sup>, PGEB22, RVBP23, SBH23, VJS<sup>+20</sup>, WNHY21, XTJW21, vdPMF<sup>+21</sup>]. **freshwaters** [BYS<sup>+23</sup>, CPB<sup>+21</sup>]. **fringed** [KDZ<sup>+24</sup>]. **Front** [TKA21, SCC<sup>+21</sup>, YLT<sup>+20</sup>]. **Frontal** [SSA<sup>+23</sup>]. **frustules** [XSZ<sup>+21</sup>]. **fucans** [HVMS<sup>+21</sup>]. **fuels** [CBF<sup>+23</sup>]. **Fukushima** [TNK<sup>+22</sup>]. **Fukushima-derived** [TNK<sup>+22</sup>]. **Full** [SO23, OLR<sup>+23</sup>, RVS<sup>+22</sup>]. **Full-year** [SO23]. **function** [BJG<sup>+22</sup>, HTSG21, LBBM21, MMF<sup>+21</sup>, MKM<sup>+23</sup>, OYM<sup>+20</sup>, THVJ23, VWR<sup>+23</sup>]. **Functional** [KL22, MLB<sup>+21</sup>, MACC24, BWB<sup>+22</sup>, CSB22, DTPV21, FAB<sup>+20</sup>, HLH<sup>+23</sup>, HPCH24, MKP<sup>+23</sup>, MVBG20, OAM<sup>+22</sup>, PGEB22, RvHF<sup>+20</sup>, RLL<sup>+21</sup>, SPR22, WOT<sup>+23</sup>, WCZ<sup>+20</sup>]. **functionally** [MCH<sup>+22</sup>]. **functioning** [GMS21, PSNS22]. **functions** [XYL<sup>+23</sup>]. **Fundamental** [KAP<sup>+20</sup>]. **funga** [FWT<sup>+20</sup>, XYL<sup>+23</sup>]. **fungi** [KSN<sup>+21</sup>]. **fungicides** [BZK<sup>+22</sup>]. **Future** [RGW<sup>+23</sup>, BFW<sup>+22</sup>, EWGP22, FM21, GM22, LLSQ24, NB23, RBD22, VMT<sup>+20</sup>, WHAR<sup>+20</sup>]. **Fuxian** [XTL<sup>+20</sup>].

**G** [MK20]. **gamma** [GCEM<sup>+23</sup>]. **gas** [BSIdG23, GPK<sup>+21</sup>, HABL<sup>+21</sup>, KSH<sup>+23</sup>, MBA<sup>+21</sup>, MGI<sup>+22</sup>, PLB<sup>+21</sup>, SMNT22]. **gegenauri** [FLW<sup>+21</sup>]. **gelatinous** [CDH<sup>+21</sup>]. **gene** [BMH<sup>+23</sup>, DLL20, MBD<sup>+22</sup>, MBD<sup>+23</sup>, WCZ<sup>+20</sup>, WNHY21, ZR23]. **generalists** [MZW<sup>+21</sup>]. **genes** [BCA<sup>+20</sup>, FAB<sup>+20</sup>, LOW<sup>+20</sup>, MVBG20]. **Geneva** [Lem20, SLZ<sup>+21b</sup>]. **genomes** [RCS<sup>+20</sup>]. **Genomic** [MUGL20].

**gentoo** [NCC<sup>+</sup>21]. **Geochemical** [SGA<sup>+</sup>22, TJW<sup>+</sup>22]. **Geographic** [MRH<sup>+</sup>23, LWH<sup>+</sup>23, LCS<sup>+</sup>20]. **geologic** [CEE<sup>+</sup>22]. **geomorphic** [LGF22]. **geomorphology** [BMR<sup>+</sup>21b]. **George** [THT<sup>+</sup>20]. **germination** [ZZL<sup>+</sup>21]. **germination-features** [ZZL<sup>+</sup>21]. **giant** [SBB<sup>+</sup>21, XKP<sup>+</sup>22]. **gigas** [PMRG20]. **Giling** [Ano21a]. **Glacial** [MCS<sup>+</sup>23, NB23]. **glacialis** [CBS<sup>+</sup>21, PPB<sup>+</sup>21]. **Glacier** [FBJ<sup>+</sup>23, BJK<sup>+</sup>21]. **glacierized** [BSF<sup>+</sup>21]. **Glaciers** [DBFC24, VMT<sup>+</sup>24]. **Global** [GGHS<sup>+</sup>20, LG21, ABC<sup>+</sup>21, BDE<sup>+</sup>22, CLC<sup>+</sup>20, CLC<sup>+</sup>21, CBC<sup>+</sup>22, DCJB22, JHS<sup>+</sup>21, KDV<sup>+</sup>23, OYM<sup>+</sup>20, OJUN23, PJRV23, RTM<sup>+</sup>20]. **globally** [GSD<sup>+</sup>23, HGF<sup>+</sup>21]. **Glomalin** [PYY<sup>+</sup>20, ZJW<sup>+</sup>22]. **Glomalin-related** [PYY<sup>+</sup>20]. **glycerol** [ZLL<sup>+</sup>24]. **glycine** [MAD<sup>+</sup>22]. **Going** [FNB<sup>+</sup>23]. **gold** [LCHB22]. **Gone** [MACC24]. **govern** [BD22, GLAHH<sup>+</sup>23]. **gradient** [ADLW22, AKT<sup>+</sup>21, BWV<sup>+</sup>20, BRHS20, CÖL<sup>+</sup>20, CBHB21, HHMH22, IMB<sup>+</sup>22, IYW<sup>+</sup>22, KAP<sup>+</sup>20, LSC<sup>+</sup>21, MLP<sup>+</sup>21a, PMF<sup>+</sup>21, RCMA21, SWOR20, SO23, SGSD<sup>+</sup>22, TKW<sup>+</sup>23, VST<sup>+</sup>22]. **gradients** [BSGA21, GLAHH<sup>+</sup>23, LAFV23, MTB<sup>+</sup>21, SORGC<sup>+</sup>21, TKA21, TKS<sup>+</sup>20]. **gravel** [ARBvS<sup>+</sup>21]. **gravel-bed** [ARBvS<sup>+</sup>21]. **grazer** [GSD<sup>+</sup>23]. **grazers** [BWB<sup>+</sup>22, SDSGR21, ZJ22b]. **Grazing** [HBY<sup>+</sup>22, DvOH<sup>+</sup>20, GBMKJ22, JHBB22, LES<sup>+</sup>21, MMG<sup>+</sup>21, SDSGR21, ST22, XSZ<sup>+</sup>21, ZSZ<sup>+</sup>21]. **Great** [GSP<sup>+</sup>23, MFM<sup>+</sup>21, SWOR20, ETG21, GBO<sup>+</sup>20, MBB<sup>+</sup>20, VCBB20, YJB<sup>+</sup>20]. **green** [JHBB22]. **greenhouse** [BSIdG23, HABL<sup>+</sup>21, KSH<sup>+</sup>23, MGI<sup>+</sup>22, PLB<sup>+</sup>21]. **Greening** [FSM<sup>+</sup>21]. **Greenland** [BHS<sup>+</sup>20, MN20, XTJW21]. **gregaria** [CUS21]. **gross** [SSM<sup>+</sup>22a]. **Groundwater** [KPM<sup>+</sup>20, BKMY21, FKN21, HGH<sup>+</sup>21, IÁSNCR21, KRM<sup>+</sup>20, NSK<sup>+</sup>21, RTM<sup>+</sup>21, RST<sup>+</sup>21, WLK<sup>+</sup>21]. **Groundwater-controlled** [KPM<sup>+</sup>20]. **groundwater-dependent** [HGH<sup>+</sup>21]. **group** [BBL<sup>+</sup>21, EHC<sup>+</sup>22, SSB<sup>+</sup>22]. **groups** [BDL<sup>+</sup>21, LTQS<sup>+</sup>21, LLBC20, SRM23]. **Growth** [JHS<sup>+</sup>21, ZLS<sup>+</sup>21, BS20, BK20, CFC<sup>+</sup>20, DWR<sup>+</sup>23, FBJ<sup>+</sup>23, FPB<sup>+</sup>23, HSP<sup>+</sup>20, JHBB22, KPG<sup>+</sup>23, KFHS24, LSL<sup>+</sup>20, LDB<sup>+</sup>21, LSDA21, MVP<sup>+</sup>20, MDWT<sup>+</sup>22, MMLPRHCG22, PKV20, QBJG21, RGW<sup>+</sup>23, SMD21, YSHS22, ZWM22]. **Growth-dependent** [ZLS<sup>+</sup>21]. **guidelines** [LCMG<sup>+</sup>20]. **guilds** [RBAC<sup>+</sup>20, WSZ22b, WSZ22a]. **Gulf** [DLDF21, DP22, KPS21, MLP<sup>+</sup>21a, PMRG20, SMP21, WSZ22a, WSZ22b, YMSH20]. **guttatus** [BFCC<sup>+</sup>21]. **Gyre** [HYPG<sup>+</sup>22, RPKC22, ZBNH<sup>+</sup>21].

**H** [LTLH22, hTRH20]. **Habitat** [BBCA<sup>+</sup>21, WHZ<sup>+</sup>21, CYZZ<sup>+</sup>20, CBD<sup>+</sup>23, DFJ22, GRJ20, KHCG<sup>+</sup>22, MO23, PSY<sup>+</sup>22, SSA<sup>+</sup>23, VKGW22, YAH<sup>+</sup>21]. **Habitat-dependent** [WHZ<sup>+</sup>21]. **Habitat-specific** [BBCA<sup>+</sup>21]. **habitats** [CLW<sup>+</sup>21, CEW<sup>+</sup>21, GPDA<sup>+</sup>20, HLPT20, MHL<sup>+</sup>20, RD23, VCT<sup>+</sup>23, WHAR<sup>+</sup>20]. **hadal** [FUUG<sup>+</sup>21]. **hadopelagic** [LZD<sup>+</sup>23]. **Halisarca** [LMP<sup>+</sup>20]. **halocline** [CLD<sup>+</sup>23]. **handling** [RTK23]. **haplotypes** [LGI<sup>+</sup>20]. **haptophytes** [THT<sup>+</sup>20]. **hard** [MKBSK19]. **hard-substrate** [MKBSK19].

**Harmful** [BK20, DTPV21, HM20, HMB<sup>+</sup>22, KAC<sup>+</sup>23, KRC23, LZG21, PHM21, SKB<sup>+</sup>22, THS21]. **Harvey** [KPS21]. **Hatteras** [SCC<sup>+</sup>21]. **HAUSGARTEN** [MKBSK19]. **Hawaiian** [SWS<sup>+</sup>22, BST<sup>+</sup>22, HBY<sup>+</sup>22, PMJ<sup>+</sup>21]. **Headward** [WPO<sup>+</sup>22]. **Headward-eroding** [WPO<sup>+</sup>22]. **headwater** [BCL<sup>+</sup>22, RWT<sup>+</sup>21, RBSB22]. **Headwaters** [GBHF21]. **healthy** [YvdHC<sup>+</sup>20]. **heat** [EJRR<sup>+</sup>23, LRdGFP23, SSL22, SRV<sup>+</sup>20, VGvdB<sup>+</sup>21]. **heated** [DKW<sup>+</sup>21, DMCW23]. **heatwave** [DMM<sup>+</sup>21, JHSG<sup>+</sup>24, ZZHZ23]. **heatwaves** [GBW24, ZSF<sup>+</sup>23]. **heel** [ZvBZ<sup>+</sup>20]. **hemisphere** [CZK<sup>+</sup>23]. **herbicides** [YML<sup>+</sup>21]. **herbivory** [FWT<sup>+</sup>20, JREVB21, LCZ<sup>+</sup>21]. **heterogeneity** [CLW<sup>+</sup>21, GCW<sup>+</sup>23, HMB<sup>+</sup>20, RWT<sup>+</sup>21, SCC<sup>+</sup>21]. **Heterogeneous** [BSGA21, MOW<sup>+</sup>22]. **Heterotrophic** [LTH21, RHS<sup>+</sup>22, AH20, BMG<sup>+</sup>23, DWW<sup>+</sup>21, ELS23, GAS<sup>+</sup>23, LOW<sup>+</sup>20, LABM20, OMM21, PGN<sup>+</sup>21, PMJ<sup>+</sup>21, SWC<sup>+</sup>23, STAK22, ZLW<sup>+</sup>21a]. **Hg** [CBB<sup>+</sup>22]. **High** [CML23, KRB<sup>+</sup>21, KSH<sup>+</sup>23, LZD<sup>+</sup>23, MDIY23, MKD22, PSE<sup>+</sup>20, PHB<sup>+</sup>22, SWK<sup>+</sup>23, VVMJ23, WDG<sup>+</sup>21, ZZO<sup>+</sup>21, AAC<sup>+</sup>21, BCWS23, BOC<sup>+</sup>21, BBGM20, CGGC<sup>+</sup>21, CM20a, CZK<sup>+</sup>23, CGB<sup>+</sup>21, DGTW21, DCF<sup>+</sup>22, DAD<sup>+</sup>21, EFP<sup>+</sup>21, JLW<sup>+</sup>23, JSB<sup>+</sup>20, JLMW21, KCT23, KMV<sup>+</sup>20, KTA<sup>+</sup>21, LDG<sup>+</sup>21, MCYR20, MHVC22, RRAO<sup>+</sup>21, SIP21, SSM<sup>+</sup>22a, SEG21, SLHL<sup>+</sup>22, VMT<sup>+</sup>24, WZCK20, ZQB<sup>+</sup>21, vdPMF<sup>+</sup>21, PLB<sup>+</sup>21, RCS<sup>+</sup>20]. **high-altitude** [DCF<sup>+</sup>22]. **high-Arctic** [BOC<sup>+</sup>21]. **high-elevation** [CM20a, DGTW21, SLHL<sup>+</sup>22, VMT<sup>+</sup>24, ZQB<sup>+</sup>21]. **High-frequency** [MKD22, SWK<sup>+</sup>23, VVMJ23, WDG<sup>+</sup>21, CZK<sup>+</sup>23, DAD<sup>+</sup>21, SSM<sup>+</sup>22a]. **high-latitude** [JSB<sup>+</sup>20, KCT23, LDG<sup>+</sup>21, SLHL<sup>+</sup>22]. **high-mountain** [CGGC<sup>+</sup>21, MHVC22]. **High-resolution** [PHB<sup>+</sup>22, ZZO<sup>+</sup>21, BCWS23]. **high-throughput** [BBGM20, WZCK20]. **Higher** [GCEM<sup>+</sup>23, MRT<sup>+</sup>24, TION23, CLC<sup>+</sup>22]. **Highest** [KTA<sup>+</sup>21]. **Highly** [ZLW<sup>+</sup>21a, EFC<sup>+</sup>23, LDG<sup>+</sup>21, RBD22]. **historic** [MDDL22]. **Historical** [GGLH<sup>+</sup>22, BAG<sup>+</sup>24]. **history** [HXL<sup>+</sup>21, SSL22]. **holobionts** [MSD23]. **Holocene** [MPW<sup>+</sup>23]. **holomictic** [XTL<sup>+</sup>20]. **Homeostasis** [DBB<sup>+</sup>21]. **Homeostatic** [HP20]. **host** [FPBG<sup>+</sup>22, KSN<sup>+</sup>21, LEB21, TVB<sup>+</sup>21]. **host-algae** [FPBG<sup>+</sup>22]. **hosted** [BVL<sup>+</sup>23]. **hosts** [CML23]. **Hot** [ONH<sup>+</sup>20]. **hotspot** [KPNJ23, SCC<sup>+</sup>21]. **hotspots** [CFC<sup>+</sup>20, EFC<sup>+</sup>23]. **Hudson** [SMNT22]. **Human** [ZZWL22, JLW<sup>+</sup>23, LVZ21, NDP<sup>+</sup>24, ZSD<sup>+</sup>20, vHLV<sup>+</sup>20]. **human-altered** [LVZ21]. **human-dominated** [NDP<sup>+</sup>24]. **Humboldt** [PMRG20]. **humic** [EFC<sup>+</sup>23]. **Hurricane** [KPS21]. **huxleyi** [KTWGT20, MLS<sup>+</sup>21, ZLS<sup>+</sup>21]. **hybridization** [CSH21, CBS<sup>+</sup>21, PPB<sup>+</sup>21]. **Hydraulic** [ARBvS<sup>+</sup>21]. **hydroclimate** [BJG<sup>+</sup>22]. **Hydrodynamic** [GLB<sup>+</sup>22, GCMJ23, RPA<sup>+</sup>22, SMF20, SYMF21]. **hydrodynamics** [SCM22, TCP<sup>+</sup>22]. **hydrogen** [SGK<sup>+</sup>21]. **hydrogenase** [LTLH22]. **Hydrologic** [JSB<sup>+</sup>20, PCJ<sup>+</sup>21, YMSH20, BMR<sup>+</sup>21b, DPB<sup>+</sup>23, YJB<sup>+</sup>20]. **hydrologically** [BCL<sup>+</sup>22, DBFC24, FBRG23]. **Hydrology**

[DBM<sup>+23</sup>, ESW<sup>+21</sup>, BCTH20, RSLW23, RVS<sup>+22</sup>, ZYZ<sup>+21</sup>]. **hydromedusa** [CUS21]. **hydroperiod** [DGTW21]. **hydrostatic** [SEG21]. **hydrothermal** [ASL<sup>+24</sup>, LBG<sup>+22</sup>, dCLO<sup>+23</sup>]. **hyper** [AWGV20]. **hyper-eutrophic** [AWGV20]. **hyperborea** [SOO<sup>+21</sup>]. **hypereutrophic** [KTA<sup>+21</sup>]. **hypersaline** [MVBG20, SSM<sup>+21a</sup>]. **Hypolimnetic** [SSWM20, SDS<sup>+23</sup>]. **hypolimnia** [LM24]. **hypolimnion** [Lem20, SPLJA<sup>+20</sup>]. **hyporheic** [BZK<sup>+22</sup>]. **hypothesis** [LD22, SB22, WRA<sup>+23</sup>, ZLL<sup>+21</sup>, CFC<sup>+20</sup>]. **Hypoxia** [CBHB21, AAB<sup>+22</sup>, LHS<sup>+21</sup>, MKL<sup>+24</sup>, PMD<sup>+23</sup>, SLZ<sup>+21a</sup>, YGD<sup>+21</sup>, ZLU<sup>+20</sup>, vHLV<sup>+20</sup>]. **hypoxia-driven** [MKL<sup>+24</sup>]. **hypoxic** [LM24, MLK<sup>+22</sup>, QRWT<sup>+22</sup>, RWS<sup>+22</sup>, SCB<sup>+20</sup>]. **hysteresis** [MAP<sup>+22</sup>].

**ice** [AHF<sup>+22</sup>, CCA<sup>+21</sup>, CVF<sup>+20</sup>, HS21, JHvL<sup>+23</sup>, KPG<sup>+23</sup>, KFHS24, LAFV23, LDS<sup>+20</sup>, LXC<sup>+21b</sup>, MLG<sup>+20</sup>, OBL20, PMD<sup>+23</sup>, PW22, PGN<sup>+21</sup>, PFB<sup>+22</sup>, SSM<sup>+21a</sup>, SBM<sup>+21</sup>, SMCS23, SGL<sup>+23</sup>, SJJ<sup>+21</sup>, TMS<sup>+21</sup>, VCT<sup>+23</sup>, VMP<sup>+21</sup>, WOMWR20, WRHR22, YWLY20, ZXE<sup>+23</sup>]. **ice-associated** [KFHS24, WRHR22]. **ice-covered** [CVF<sup>+20</sup>, LDS<sup>+20</sup>, LXC<sup>+21b</sup>, PMD<sup>+23</sup>, SSM<sup>+21a</sup>, SMCS23]. **ice-floe** [SBM<sup>+21</sup>]. **ice-free** [AHF<sup>+22</sup>]. **ice-retreat** [SJJ<sup>+21</sup>]. **Identification** [AMC21]. **identifies** [OGD20, SLHL<sup>+22</sup>]. **Identifying** [vHHP<sup>+22</sup>]. **III** [KLP23]. **illuminate** [BBGM20]. **illuminates** [BBM21]. **illuminations** [GTKW<sup>+20</sup>]. **image** [OAM<sup>+22</sup>]. **imagery** [SGM<sup>+22</sup>]. **images** [VMP<sup>+21</sup>]. **imaging** [BO20, BBGM20, FHMK20, GSD<sup>+23</sup>]. **imbalances** [KTA<sup>+21</sup>, MSJ21]. **immediate** [SPKM22]. **Impact** [LBG<sup>+22</sup>, SMG<sup>+22</sup>, SBL<sup>+21</sup>, YG23, ZSD<sup>+20</sup>, JLW<sup>+23</sup>, KWS<sup>+21</sup>, LG21, MIR<sup>+22</sup>, RLL<sup>+21</sup>, RWT<sup>+21</sup>, YOXC23, ZN20]. **impacted** [LSCL21]. **impactful** [CCG<sup>+22</sup>]. **Impacts** [BJS<sup>+23b</sup>, OBB<sup>+20</sup>, BSB<sup>+20</sup>, BKC20, CLW<sup>+21</sup>, HM20, LZM<sup>+21</sup>, PCN22, PVSP<sup>+22</sup>, WHAR<sup>+20</sup>, WWB<sup>+20</sup>, WBB<sup>+21</sup>, WSB<sup>+20</sup>, WHZ<sup>+21</sup>, WCC20, YML<sup>+21</sup>, ZZWL22, ONH<sup>+20</sup>, SRN<sup>+21</sup>]. **impair** [BDMGH<sup>+23</sup>]. **impairs** [MGP<sup>+21</sup>]. **Implication** [JYA21]. **Implications** [BH21, FBJ<sup>+23</sup>, FUUG<sup>+21</sup>, GBB<sup>+21</sup>, GAS<sup>+23</sup>, MSJ21, PYY<sup>+20</sup>, THT<sup>+20</sup>, XMP<sup>+21</sup>, YWLY20, YAP<sup>+22</sup>, BPL22, EAF<sup>+22</sup>, FNB<sup>+23</sup>, Gil22, GM22, KDW<sup>+23</sup>, QBJG21, ZXE<sup>+23</sup>]. **Importance** [BBH<sup>+20</sup>, MGI<sup>+22</sup>, BCTH20, BBM21, FBR<sup>+23</sup>, GCW<sup>+23</sup>, HS21, LLBC20, MHG<sup>+23</sup>, TION23, TKH21, TRS<sup>+20</sup>, ZZT<sup>+21</sup>]. **important** [GKW<sup>+20</sup>, GKW<sup>+21</sup>, MCS<sup>+23</sup>, MKM<sup>+23</sup>, RLL<sup>+21</sup>]. **improve** [THS21]. **improvement** [HSB<sup>+20</sup>]. **In-lake** [SEK20]. **including** [ZN20]. **incorporation** [FSH<sup>+23</sup>, GE22]. **increase** [DKW<sup>+21</sup>, KLO23, ZZCD23]. **Increased** [BJK<sup>+21</sup>, CLC<sup>+22</sup>, BAG<sup>+24</sup>, KFHS24, MRT<sup>+24</sup>, YSHS22]. **increases** [LMS23, VKGW22, ZLL<sup>+21</sup>, ZZT<sup>+21</sup>]. **Increasing** [ALH<sup>+21</sup>, CT23, FBV23, OJUN23, SBL<sup>+21</sup>]. **incubation** [BBA<sup>+23</sup>]. **incubations** [TION23]. **independent** [JSW<sup>+21</sup>]. **Indian** [BGAD<sup>+22</sup>, BLRM24, GRJ<sup>+22</sup>, LGI<sup>+20</sup>]. **indicate** [CTF<sup>+21</sup>, HFL<sup>+20</sup>, LDG<sup>+21</sup>]. **indicates** [OJUN23]. **indicator** [MDP<sup>+23</sup>]. **indicators** [WHAR<sup>+20</sup>]. **indices** [LEK<sup>+22</sup>]. **indirect** [MEQBV20, MSB<sup>+20</sup>].



**Indo** [HOB<sup>+</sup>22, YAH<sup>+</sup>21]. **Indo-Pacific** [HOB<sup>+</sup>22]. **induce** [AH20, MRT<sup>+</sup>24]. **induced** [DAD<sup>+</sup>21, GMNG<sup>+</sup>24, IYW<sup>+</sup>22, LLC<sup>+</sup>23, LXC<sup>+</sup>21a, SYMF21, SYT<sup>+</sup>21, SCM22, SBW21, TNK<sup>+</sup>22, TSX<sup>+</sup>23, WT<sub>v</sub>D<sup>+</sup>22, ZN20, ZSZ<sup>+</sup>21]. **induces** [PW22]. **infaunal** [LNR<sup>+</sup>20]. **Infection** [FWT<sup>+</sup>20]. **infer** [RBD22]. **inferred** [BFCC<sup>+</sup>21, CZK<sup>+</sup>23, MNMJ<sup>+</sup>21]. **inflow** [BM22, CHS<sup>+</sup>20, FBK<sup>+</sup>22, LWC<sup>+</sup>24, MLP<sup>+</sup>21a]. **inflows** [PBGGRB21]. **Influence** [ABS<sup>+</sup>21, LL23, TCP<sup>+</sup>22, dCLO<sup>+</sup>23, AVJ<sup>+</sup>24, BJS23a, CZS<sup>+</sup>22, DLL20, HMM<sup>+</sup>22, HZC<sup>+</sup>24, HNS21, JSPS24, KHK<sup>+</sup>22, KLP23, KPNJ23, MGGRR<sup>+</sup>21, RMH<sup>+</sup>22, SML21b, SMKS22, VMT<sup>+</sup>24, YSHS23, ZYZ<sup>+</sup>21]. **influenced** [CESS21, FXD<sup>+</sup>22, HZM<sup>+</sup>21, LSC<sup>+</sup>21, REF<sup>+</sup>21]. **influences** [BBCA<sup>+</sup>21, CGD22, DBFC24, FBJ<sup>+</sup>23, OYM<sup>+</sup>20]. **influencing** [EBK<sup>+</sup>20, SBB<sup>+</sup>21]. **influx** [BHSL21]. **inform** [ASH<sup>+</sup>20]. **Information** [Ano20b, Ano20c, Ano20d, Ano20e, Ano20f, Ano20g, Ano20h, Ano20i, Ano20j, Ano20k, Ano20l, Ano20m, Ano20n, Ano20o, Ano20p, Ano20q, Ano20r, Ano20s, Ano20t, Ano20u, Ano20v, Ano20w, Ano20x, Ano20y, Ano20-38, Ano20z, Ano20-39, Ano20-27, Ano20-40, Ano20-28, Ano20-41, Ano20-29, Ano20-42, Ano20-30, Ano20-43, Ano20-31, Ano20-44, Ano20-32, Ano20-45, Ano20-33, Ano20-34, Ano20-46, Ano20-35, Ano20-47, Ano20-36, Ano20-48, Ano20-37, Ano20-49, Ano20-50, Ano20-51, Ano20-52, Ano20-53, Ano20-54, Ano20-55, Ano20-56, Ano20-57, Ano20-58, Ano20-59, Ano20-60, Ano20-61, Ano21e, Ano21f, Ano21g, Ano21h, Ano21i, Ano21j, Ano21k, Ano21l, Ano21m, Ano21n, Ano21o, Ano21-53, Ano21p, Ano21q, Ano21-29, Ano21r, Ano21-30, Ano21s, Ano21-31, Ano21t, Ano21-32, Ano21u, Ano21-33, Ano21v]. **Information** [Ano21-34, Ano21w, Ano21-35, Ano21x, Ano21-36, Ano21y, Ano21-37, Ano21z, Ano21-38, Ano21-27, Ano21-39, Ano21-54, Ano21-55, Ano21-28, Ano21-40, Ano21-41, Ano21-42, Ano21-43, Ano21-44, Ano21-45, Ano21-46, Ano21-47, Ano21-48, Ano21-49, Ano21-50, Ano21-51, Ano21-56, Ano21-52, Ano22e, Ano22f, Ano22g, Ano22h, Ano22i, Ano22j, Ano22k, Ano22l, Ano22m, Ano22n, Ano22o, Ano22p, Ano22a, Ano22q, Ano22r, Ano22-31, Ano22-30, Ano22-43, Ano22s, Ano22-32, Ano22t, Ano22-33, Ano22u, Ano22-34, Ano22v, Ano22-35, Ano22w, Ano22-36, Ano22x, Ano22-37, Ano22y, Ano22-38, Ano22z, Ano22-39, Ano22-27, Ano22-40, Ano22-28, Ano22-41, Ano22-29, Ano22-42, Ano22b, Ano22c, Ano22-44, Ano22-45, Ano22-46, Ano22-47, Ano22-48, Ano22-49, Ano22-50, Ano22-51, Ano22-52, Ano22-53, Ano22-54, Ano22-55, Ano22d, Ano22-56]. **Information** [Ano23a, Ano23b, Ano23c, Ano23d, Ano23e, Ano23f, Ano23g, Ano23h, Ano23i, Ano23j, Ano23k, Ano23l, Ano23m, Ano23y, Ano23n, Ano23z, Ano23o, Ano23-27, Ano23p, Ano23-28, Ano23q, Ano23-29, Ano23r, Ano23-30, Ano23s, Ano23-31, Ano23t, Ano23-32, Ano23u, Ano23-33, Ano23v, Ano23-34, Ano23w, Ano23-35, Ano23x, Ano23-36, Ano23-37, Ano23-38, Ano23-39, Ano23-40, Ano23-41, Ano23-42, Ano23-43, Ano23-44, Ano23-45, Ano23-46, Ano23-47, Ano23-48, Ano24a, Ano24b, Ano24c, Ano24d, Ano24g, Ano24e, Ano24h, Ano24f, Ano24i, Ano24j, Ano24k, Ano24l]. **informs** [KSF<sup>+</sup>23].

**Ingestion** [BWSW24, ELS23, BZSF23, TION23]. **inhabiting** [AHCJ+20]. **inhibited** [GBMKJ22]. **initiates** [BFE+20]. **initiation** [PHM21]. **inland** [GMI+21]. **inlet** [IÁSNCR21]. **Inorganic** [BDL+21, ACW+22, FAB+20, HSD+20, KHHZ20, MHP+23, MKM+23, QRWT+22, RSLW23, RVvB+23, RCH+20, SKA+24, TEK+21, VWR+23, ZLU+20]. **input** [YML+21]. **inputs** [BOC+21, CZK+23, LPMBR23, TSX+23]. **insect** [BWB+22]. **Insight** [LLC+23]. **Insights** [ACW+22, BCWS23, BDE+22, LLMM+23, LVDM22, Lem20, LN21, PYM+20, SEG21, WAPC20, APB+23, HGA24, KLG+23, WOK+21, ZZB+20]. **Instr** [Ano20n, Ano20o, Ano20p, Ano20q, Ano20r, Ano20s, Ano20t, Ano20u, Ano20v, Ano20w, Ano20x, Ano20y]. **instrumented** [KTH+21]. **Integrating** [CSM+23, HHK+22, PSY+22, KSF+23]. **integrative** [ST22]. **intelligence** [ARB+22]. **intense** [AFH+22, CBF+23, CMT+20, DBB+21, LRM21]. **intensifies** [SVC+22]. **intensify** [ZXZ+23]. **intensity** [MTB+21, RGW+23]. **inter** [KMV+20, vdPMF+21]. **inter-annual** [vdPMF+21]. **inter-replacement** [KMV+20]. **Interaction** [ZLU+20, EWF22, GAS+21, KBL+20, LMSN23]. **Interactions** [BBA+23, HMB+20, ZFQ+20, CHA+24, GGS+21, MIR+22, PGB24, SDSGR21, TKH21]. **Interactive** [FPB+23, MGC+20, STB22, AFK+22, WWB+20]. **interactome** [CLC+20, CLC+21]. **interannual** [CGRGP+21, CP22, DLDF21, JLW+23, PFB+22]. **interface** [BKMY21, RWMP+23]. **interferes** [HXL+21]. **Interleaving** [HPNU20]. **intermediate** [RS20]. **intermittency** [PSE+20]. **intermittent** [SPR22]. **Internal** [BMS+22, FWDY20, GLN+20, FGO+20, GLN+21, HMB+22, MXL+21, NH22, PRS+20, XMP+21]. **Interplay** [SGSD+22, CYPRG+23, HZM+21]. **Interrelated** [YSHS23]. **Interspecific** [VGvdB+21, BHG+24, MKL+24]. **intertidal** [DvOH+20, EJM+23, FNB+23, ORE20, PYM+20, RS21, SYT+21, TEK+21]. **intertidal-flat** [SYT+21]. **intraguild** [PSNS22]. **intraspecific** [LLSQ24]. **introduced** [LCS+20, WTvD+22]. **introgression** [PPB+21, WNHY21]. **intrusion** [KTH+21]. **intrusions** [HPNU20, NH23]. **invader** [LBJS22]. **invasion** [YWZ+21]. **invasions** [SBH23, WHZ+21]. **invasive** [BDMGH+23, MWV22]. **inversions** [AAB+22]. **invertebrate** [DBFC24]. **invertebrates** [HANW21, MKBSK19, SRV+20]. **inverted** [LSW+20a]. **Investigating** [FHR+21]. **involved** [LOW+20, ZSZ+21]. **iodine** [SOSN23]. **Ireland** [SOO+21]. **iron** [BTT23, EBW+20, HYPG+22, HZM+21, HPB+21, JWA<sub>v</sub>D+22, KLP23, LG21, LHS+21, LHMR23, LMS+21, MGC+20, MWHR+22, SGA+22, SdBW+23, WRS+22, YSHS22, YSHS23, ZJW+22, ZLL+21]. **iron-dependent** [MWHR+22]. **iron-light-CO** [YSHS22]. **iron-supported** [SZY+20]. **Irradiance** [KKP+21, CT23, KNG+23, MSD23]. **irradiated** [AFM23]. **irradiation** [KRB+21]. **Island** [LVHK20, MSGW+20, MVBG20, FMT+20]. **Islands** [MSGW+20, SBV+21, SWS+22]. **isolation** [BRB+22]. **isoscapes** [YAH+21].

**isotope** [CDH<sup>+</sup>21, DMS<sup>+</sup>21, HRK<sup>+</sup>22, KLG<sup>+</sup>23, LHGJ21, ORRMD<sup>+</sup>21, SRM23, TMM<sup>+</sup>20, WDS<sup>+</sup>23, WAPC20]. **isotopes** [CDW<sup>+</sup>24, DWS<sup>+</sup>22, EST<sup>+</sup>24, HFL<sup>+</sup>20, HZC<sup>+</sup>24, IFU<sup>+</sup>20, LVDM22, LLC<sup>+</sup>23, MLP<sup>+</sup>21a, SWS<sup>+</sup>22, VCT<sup>+</sup>23, WRS<sup>+</sup>22, ZSD<sup>+</sup>20]. **Isotopic** [PMJ<sup>+</sup>21, TZF<sup>+</sup>22, Ano21c, BSF<sup>+</sup>21, FXD<sup>+</sup>22, GAS<sup>+</sup>23, HLKD23, TUR<sup>+</sup>20, WRWPG19, WMRL22]. **isotopomeric** [WLK<sup>+</sup>21]. **Issue** [Ano20b, Ano20c, Ano20d, Ano20e, Ano20f, Ano20g, Ano20h, Ano20i, Ano20j, Ano20k, Ano20l, Ano20m, Ano20n, Ano20o, Ano20p, Ano20q, Ano20r, Ano20s, Ano20t, Ano20u, Ano20v, Ano20w, Ano20x, Ano20y, Ano20-38, Ano20z, Ano20-39, Ano20-27, Ano20-40, Ano20-28, Ano20-41, Ano20-29, Ano20-42, Ano20-30, Ano20-43, Ano20-31, Ano20-44, Ano20-32, Ano20-45, Ano20-33, Ano20-34, Ano20-46, Ano20-35, Ano20-47, Ano20-36, Ano20-48, Ano20-37, Ano20-49, Ano20-50, Ano20-51, Ano20-52, Ano20-53, Ano20-54, Ano20-55, Ano20-56, Ano20-57, Ano20-58, Ano20-59, Ano20-60, Ano20-61, Ano21e, Ano21f, Ano21g, Ano21h, Ano21i, Ano21j, Ano21k, Ano21l, Ano21m, Ano21n, Ano21o, Ano21-53, Ano21p, Ano21q, Ano21-29, Ano21r, Ano21-30, Ano21s, Ano21-31, Ano21t, Ano21-32, Ano21u, Ano21-33, Ano21v]. **Issue** [Ano21-34, Ano21w, Ano21-35, Ano21x, Ano21-36, Ano21y, Ano21-37, Ano21z, Ano21-38, Ano21-27, Ano21-39, Ano21-54, Ano21-55, Ano21-28, Ano21-40, Ano21-41, Ano21-42, Ano21-43, Ano21-44, Ano21-45, Ano21-46, Ano21-47, Ano21-48, Ano21-49, Ano21-50, Ano21-51, Ano21-56, Ano21-52, Ano22e, Ano22f, Ano22g, Ano22h, Ano22i, Ano22j, Ano22k, Ano22l, Ano22m, Ano22n, Ano22o, Ano22p, Ano22a, Ano22q, Ano22r, Ano22-31, Ano22-30, Ano22-43, Ano22s, Ano22-32, Ano22t, Ano22-33, Ano22u, Ano22-34, Ano22v, Ano22-35, Ano22w, Ano22-36, Ano22x, Ano22-37, Ano22y, Ano22-38, Ano22z, Ano22-39, Ano22-27, Ano22-40, Ano22-28, Ano22-41, Ano22-29, Ano22-42, Ano22b, Ano22c, Ano22-44, Ano22-45, Ano22-46, Ano22-47, Ano22-48, Ano22-49, Ano22-50, Ano22-51, Ano22-52, Ano22-53, Ano22-54, Ano22-55, Ano22d, Ano22-56]. **Issue** [Ano23a, Ano23b, Ano23c, Ano23d, Ano23e, Ano23f, Ano23g, Ano23h, Ano23i, Ano23j, Ano23k, Ano23l, Ano23m, Ano23y, Ano23n, Ano23z, Ano23o, Ano23-27, Ano23p, Ano23-28, Ano23q, Ano23-29, Ano23r, Ano23-30, Ano23s, Ano23-31, Ano23t, Ano23-32, Ano23u, Ano23-33, Ano23v, Ano23-34, Ano23w, Ano23-35, Ano23x, Ano23-36, Ano23-37, Ano23-38, Ano23-39, Ano23-40, Ano23-41, Ano23-42, Ano23-43, Ano23-44, Ano23-45, Ano23-46, Ano23-47, Ano23-48, Ano24a, Ano24b, Ano24c, Ano24d, Ano24g, Ano24e, Ano24h, Ano24f, Ano24i, Ano24j, Ano24k, Ano24l]. **Issues** [BR22].

**Japan** [LDB<sup>+</sup>20, LDB<sup>+</sup>21, NSK<sup>+</sup>21]. **japonicus** [LDB<sup>+</sup>21]. **jelly** [CDH<sup>+</sup>21]. **jellyfish** [HGF<sup>+</sup>21, MMKWZ22, MBC<sup>+</sup>21, OFM<sup>+</sup>21, TKH21]. **juvenile** [FBJ<sup>+</sup>23, LDG<sup>+</sup>21].

**kairomone** [HXL<sup>+</sup>21]. **Kaiser** [Ano21b]. **karst** [BPL22]. **keep** [ETG21]. **keeping** [FGO<sup>+</sup>20]. **Kelp** [vEMF<sup>+</sup>20, BRHS20, BS20, NB23, SPKM22,

SBB<sup>+21</sup>, SMKS22, TCP<sup>+22</sup>, WLS21]. **Kenya** [MGI<sup>+22</sup>]. **Kerguelen** [DAB<sup>+21</sup>, IJSC20]. **keruelensis** [MGC<sup>+20</sup>]. **Kermadec** [SML<sup>+21a</sup>]. **key** [BTT23, BBL<sup>+21</sup>, LHS<sup>+21</sup>, VST<sup>+22</sup>, ZSF<sup>+23</sup>]. **Keys** [OLFH21]. **killer** [CCC<sup>+21</sup>]. **Kinetics** [FSS<sup>+23</sup>, ELS23, GF21, MSB<sup>+22</sup>]. **km** [TKW<sup>+23</sup>]. **known** [LSS<sup>+24</sup>]. **Kongsfjorden** [vdPMF<sup>+21</sup>]. **Krill** [NCC<sup>+21</sup>, YAH<sup>+21</sup>]. **Kuroshio** [LHS<sup>+20</sup>].

**lab** [BDE<sup>+22</sup>, SHZ<sup>+21</sup>]. **labile** [BKC20, HP20, MFGF<sup>+22</sup>, NKH<sup>+23</sup>, WCC20]. **lability** [BMG<sup>+23</sup>, PSNG<sup>+21</sup>]. **Lack** [KMM<sup>+22</sup>, BWB<sup>+22</sup>]. **lagoon** [BJS<sup>+23b</sup>, CCDM21, HHMH22, KX22, MBC<sup>+21</sup>, RWS<sup>+22</sup>, ZWM22]. **lagoonal** [YMSH20]. **lagoons** [BMR<sup>+21b</sup>]. **Lagrangian** [BGAD<sup>+22</sup>, FHR<sup>+21</sup>, RPA<sup>+22</sup>]. **lake** [ACA<sup>+22</sup>, ASH<sup>+20</sup>, AHF<sup>+22</sup>, BVL<sup>+23</sup>, BAG<sup>+24</sup>, BTK<sup>+21</sup>, BGG<sup>+20</sup>, BGM<sup>+22</sup>, BMLV24, BR22, CYPRG<sup>+23</sup>, CESS21, CHS<sup>+20</sup>, CTH<sup>+20</sup>, CKCB<sup>+23</sup>, CZK<sup>+23</sup>, DHNH22, DAN<sup>+22</sup>, DCF<sup>+22</sup>, DdEM<sup>+23</sup>, EST<sup>+24</sup>, ESW<sup>+21</sup>, EPR<sup>+24</sup>, FBK<sup>+22</sup>, FWDY20, FBV23, FPB<sup>+23</sup>, GGHS<sup>+20</sup>, GWS<sup>+21</sup>, GB21, GB23, GKW<sup>+20</sup>, GKW<sup>+21</sup>, HZC<sup>+24</sup>, HNS21, HSB<sup>+20</sup>, HMB<sup>+22</sup>, HHK<sup>+22</sup>, HP20, HZZ<sup>+20</sup>, JOC<sup>+20</sup>, JSPS24, KKA22, KPM<sup>+20</sup>, KRC23, KPG<sup>+23</sup>, KHSP21, LVDM22, LDS<sup>+20</sup>, LZM<sup>+21</sup>, LLBC20, MBA<sup>+21</sup>, MAG<sup>+22</sup>, MOW<sup>+22</sup>, MWHR<sup>+22</sup>, MNMJ<sup>+21</sup>, OYM<sup>+20</sup>, PBC21, PCJ<sup>+21</sup>, PATL<sup>+23</sup>, Phi20, Phi21, PFB<sup>+22</sup>, PSK21, RNW<sup>+23</sup>, RLL<sup>+21</sup>, REF<sup>+21</sup>, RCS<sup>+20</sup>, SVC<sup>+22</sup>, SSM<sup>+21a</sup>, SPBK21, SGA<sup>+22</sup>, SO23, SGL<sup>+23</sup>, SCM22, SEK20, SBW21, SGM<sup>+21</sup>, SZY<sup>+20</sup>, SDS<sup>+23</sup>, SGS22, TKM<sup>+22</sup>, TKS<sup>+20</sup>, TMM<sup>+20</sup>, VMT<sup>+20</sup>, VWR<sup>+23</sup>, WCZ<sup>+20</sup>, XTL<sup>+20</sup>, YWLY20, YJB<sup>+20</sup>, vGDH<sup>+21</sup>, AJMG21, CYZZ<sup>+20</sup>, CWF<sup>+22</sup>, CTP21, DSY20, GZX<sup>+22</sup>]. **Lake** [LEK<sup>+22</sup>, Lem20, LDB<sup>+20</sup>, LDB<sup>+21</sup>, MWV22, MDP<sup>+23</sup>, MSB<sup>+20</sup>, NB20, ONH<sup>+20</sup>, PUH<sup>+23</sup>, RPA<sup>+22</sup>, SSP<sup>+20</sup>, SLZ<sup>+21b</sup>, SRL<sup>+20</sup>, THT<sup>+20</sup>, TZF<sup>+22</sup>, VMT<sup>+20</sup>, XDQ<sup>+22</sup>, XTL<sup>+20</sup>, XMP<sup>+21</sup>]. **lake-ice** [YWLY20]. **lake-level** [BGM<sup>+22</sup>]. **lake-water** [MNMJ<sup>+21</sup>]. **lakebed** [NH23]. **Lakes** [RD23, VCBB20, AVJ<sup>+24</sup>, AKT<sup>+21</sup>, Ano21a, BSIdG23, BMA<sup>+20</sup>, BLS<sup>+22</sup>, BGM<sup>+22</sup>, BMS<sup>+22</sup>, BV21, BPG<sup>+22</sup>, CCA<sup>+21</sup>, CM20a, CM20b, DAD<sup>+21</sup>, DKW<sup>+21</sup>, DMCW23, EAF<sup>+22</sup>, GGR24, GSG<sup>+17</sup>, HM20, HABL<sup>+21</sup>, IMB<sup>+22</sup>, JSPS24, JSB<sup>+20</sup>, KVKS22, KSH<sup>+23</sup>, LM24, LAD<sup>+22</sup>, LWH<sup>+23</sup>, LPA<sup>+23</sup>, MBH<sup>+23</sup>, MTP<sup>+23</sup>, MLC<sup>+21</sup>, MSGW<sup>+20</sup>, MVBG20, MSJ21, MHVC22, MNMJ<sup>+21</sup>, PGEB22, PMD<sup>+23</sup>, PC21, PW22, PFB<sup>+22</sup>, PLB<sup>+21</sup>, QFM<sup>+21</sup>, RHA<sup>+23</sup>, RCMA21, SJH20, SPBK21, SGGB21, SMCS23, SPLJA<sup>+20</sup>, SSWM20, SLHL<sup>+22</sup>, TKW<sup>+23</sup>, VMT<sup>+24</sup>, VKK<sup>+21</sup>, VST<sup>+22</sup>, XTJW21, YJ20, ZSK<sup>+21</sup>, ZZWL22, ZZB<sup>+20</sup>, DLC<sup>+22</sup>, GSP<sup>+23</sup>, GBO<sup>+20</sup>, MFM<sup>+21</sup>, MBB<sup>+20</sup>, SWOR20]. **lakeside** [MOW<sup>+22</sup>]. **Laminaria** [SOO<sup>+21</sup>]. **Land** [BSB<sup>+20</sup>, BGM<sup>+21</sup>, RTM<sup>+20</sup>, BCTH20, MGI<sup>+22</sup>, SML21b]. **landfast** [JHvL<sup>+23</sup>]. **Landscape** [ASH<sup>+20</sup>, CZH<sup>+21</sup>, DBFC24, LHL<sup>+21</sup>, LRM21, PFB<sup>+22</sup>, PLB<sup>+21</sup>, SZA<sup>+21</sup>]. **landscapes** [LVZ21, NDP<sup>+24</sup>]. **Large**

[XWL<sup>+21</sup>, ACW<sup>+22</sup>, BCL<sup>+22</sup>, BGAD<sup>+22</sup>, CCY<sup>+21</sup>, CMCC24, CHS<sup>+20</sup>, CTH<sup>+20</sup>, DHNH22, DMC<sup>+22</sup>, EST<sup>+24</sup>, EPR<sup>+24</sup>, FWDY20, FBV23, GEHD20, HZC<sup>+24</sup>, HLPT20, HMB<sup>+22</sup>, IÁSNCR21, JOC<sup>+20</sup>, KRC23, LM24, LAFV23, LHL<sup>+21</sup>, MGL22, MVP<sup>+20</sup>, MLS<sup>+21</sup>, MOW<sup>+22</sup>, PGB24, RHP<sup>+23</sup>, SH22, SO23, SGM<sup>+21</sup>, SDSGR21, TION23, TBH<sup>+22</sup>, VMT<sup>+20</sup>, WCZ<sup>+20</sup>, XDQ<sup>+22</sup>, YWLY20, ZLU<sup>+20</sup>, ZYZ<sup>+21</sup>]. **large-scale** [BGAD<sup>+22</sup>, SH22]. **Larger** [FLH<sup>+23</sup>, SGGB21, TION23]. **largest** [HTLP23]. **larvae** [CPBJR<sup>+21</sup>, GFG<sup>+22</sup>, GPDA<sup>+20</sup>, OLR<sup>+23</sup>]. **Larval** [GLN<sup>+21</sup>, APB<sup>+23</sup>, GLN<sup>+20</sup>, MLP21b, MURK20, MDWT<sup>+22</sup>, RPA<sup>+22</sup>, SSA<sup>+23</sup>]. **last** [TMKB<sup>+22</sup>]. **lasting** [SH22]. **Late** [SSR<sup>+23</sup>, BAHH<sup>+20</sup>, SBM<sup>+21</sup>]. **Late-season** [SSR<sup>+23</sup>]. **Lateral** [CTH<sup>+20</sup>, NH23]. **latitude** [JSB<sup>+20</sup>, KCT23, LDG<sup>+21</sup>, SLHL<sup>+22</sup>]. **latitudes** [ARB<sup>+22</sup>, RHM<sup>+21</sup>]. **Latitudinal** [GFW<sup>+20</sup>, BSGA21, JLS<sup>+20</sup>, JSL<sup>+23</sup>, LCS<sup>+20</sup>, RCMA21, ZZB<sup>+20</sup>]. **Laurentian** [GSP<sup>+23</sup>, MFM<sup>+21</sup>, SWOR20]. **layer** [DHNH22, GBC<sup>+20</sup>, NH22, NH23]. **layers** [PLLM21, SBW21]. **leads** [BMH<sup>+23</sup>]. **leaf** [FRRG<sup>+21</sup>, ZN20]. **leaf-litter** [FRRG<sup>+21</sup>]. **learning** [MT23, OAM<sup>+22</sup>, RWMP<sup>+23</sup>, SCC<sup>+21</sup>]. **leaved** [VJS<sup>+20</sup>]. **leidyi** [CCG<sup>+22</sup>]. **Length** [SGM<sup>+22</sup>]. **less** [MN20]. **leucine** [GE22]. **level** [BGM<sup>+22</sup>, BPG<sup>+22</sup>, FBK<sup>+22</sup>, FNB<sup>+23</sup>, LVHK20, LRM21, QMG21, YLT<sup>+20</sup>, ZvBZ<sup>+20</sup>]. **levels** [EWGP22, KTA<sup>+21</sup>, RBAC<sup>+20</sup>, SPBK21, YWLY20]. **Leveraging** [HMBB21]. **Liaohu** [PYY<sup>+20</sup>]. **lidar** [CZS<sup>+22</sup>]. **Life** [BST<sup>+22</sup>, DFW<sup>+20</sup>, HXL<sup>+21</sup>, LZG21, OFM<sup>+21</sup>]. **ligand** [KLP23, WXK<sup>+22</sup>]. **Light** [DPB<sup>+23</sup>, GEHD20, HPCH24, MCH<sup>+22</sup>, PCC<sup>+23</sup>, SSB<sup>+22</sup>, AVJ<sup>+24</sup>, BS20, CFC<sup>+20</sup>, CBT<sup>+21</sup>, CGB<sup>+21</sup>, DMM<sup>+21</sup>, FNB<sup>+23</sup>, GR24, GK22, HZS21, HPP<sup>+21</sup>, HS21, JWA<sup>vD+22</sup>, KKP<sup>+21</sup>, KSR20, KLP23, MTB<sup>+21</sup>, MGC<sup>+20</sup>, MLG<sup>+20</sup>, Phi20, Phi21, QBJG21, RGW<sup>+23</sup>, SMKS22, TKA21, TPST23, WWFS21, WRHR22, YSHS22, YSHS23, ZXZ<sup>+23</sup>]. **Light-driven** [MCH<sup>+22</sup>]. **Light-use** [HPCH24]. **limitation** [AFH<sup>+21</sup>, APB<sup>+23</sup>, AWGV20, BYS<sup>+23</sup>, BVGQN22, DCK<sup>+22</sup>, GCW<sup>+23</sup>, KHK<sup>+22</sup>, MDP<sup>+23</sup>, MGC<sup>+20</sup>, TPST23, hTRH20, VWR<sup>+23</sup>, WK21, WRS<sup>+22</sup>, YSHS22, ZFQ<sup>+20</sup>]. **Limited** [BAD<sup>+21</sup>, TMS<sup>+21</sup>, TCP<sup>+22</sup>, ASH<sup>+20</sup>, EJM<sup>+23</sup>, GVF<sup>+23</sup>]. **limiting** [NB23]. **limits** [AR20, GAS<sup>+21</sup>]. **Limnol** [Ano21b]. **Limnology** [Ano21a, Kir20]. **Lineage** [WNHY21, MNM<sup>+21</sup>]. **lineages** [BRB<sup>+22</sup>, FM21]. **Linear** [GR24, FGO<sup>+20</sup>, TBH<sup>+22</sup>]. **link** [TVB<sup>+21</sup>, VGSB23]. **Linkages** [ZQB<sup>+21</sup>, FLW<sup>+21</sup>, HCS<sup>+21</sup>]. **linked** [BCFI<sup>+22</sup>, LNR<sup>+20</sup>, PWS<sup>+20</sup>, PFB<sup>+22</sup>, RvHF<sup>+20</sup>]. **Linking** [FAB<sup>+20</sup>, GMMW20, dMKB<sup>+20</sup>, FJP<sup>+21</sup>]. **links** [ARB<sup>+22</sup>, KHB22, RNW<sup>+23</sup>, SJJ<sup>+21</sup>]. **Lipid** [PMF<sup>+21</sup>, HNS21]. **lipidome** [BCFI<sup>+22</sup>]. **lithium** [FSH<sup>+23</sup>]. **litter** [BRB<sup>+20</sup>, FRRG<sup>+21</sup>]. **litter-associated** [BRB<sup>+20</sup>]. **littoral** [VMT<sup>+20</sup>, VKK<sup>+21</sup>]. **Live** [BFW<sup>+22</sup>]. **livestock** [GBMKJ22]. **living** [WPY<sup>+20</sup>]. **Ino.10504** [Ano21a]. **load** [FBV23, MDBI20, RS21, TBH<sup>+22</sup>, WHAR<sup>+20</sup>]. **loading** [DSY20, HMB<sup>+22</sup>, JOC<sup>+20</sup>, LTH21, SDL22, VMT<sup>+20</sup>, XMP<sup>+21</sup>]. **loads**

[Roy20]. **loathing** [PVSP<sup>+</sup>22]. **lobate** [CCG<sup>+</sup>22]. **lobsters** [BFCC<sup>+</sup>21]. **Local** [FRRG<sup>+</sup>21, KPNJ23, SLJ<sup>+</sup>22, OYM<sup>+</sup>20, SMG<sup>+</sup>22]. **Local-scale** [KPNJ23]. **location** [PHM21]. **locomotion** [JYA21]. **Long** [BBMD20, BMH<sup>+</sup>23, CB21a, CHA<sup>+</sup>24, FBV23, GBHF21, LAD<sup>+</sup>22, LGQ<sup>+</sup>21, MVP<sup>+</sup>20, MNMJ<sup>+</sup>21, RSLW23, SJH20, BCWS23, DAD<sup>+</sup>21, EDC24, FHMK20, HBR<sup>+</sup>22, LVHK20, Lem20, LZM<sup>+</sup>21, MKBSK19, SH22, SGM<sup>+</sup>21, YAH<sup>+</sup>21, MKBSK19]. **long-lasting** [SH22]. **Long-term** [BBMD20, BMH<sup>+</sup>23, CB21a, CHA<sup>+</sup>24, FBV23, GBHF21, LAD<sup>+</sup>22, LGQ<sup>+</sup>21, MVP<sup>+</sup>20, MNMJ<sup>+</sup>21, RSLW23, SJH20, BCWS23, DAD<sup>+</sup>21, FHMK20, HBR<sup>+</sup>22, LVHK20, Lem20, LZM<sup>+</sup>21, MKBSK19, SGM<sup>+</sup>21, YAH<sup>+</sup>21, MKBSK19]. **Longitudinal** [HCS<sup>+</sup>21]. **loop** [RNW<sup>+</sup>23, VGSB23, VKGW22]. **loops** [GM22]. **loss** [BH21, CM21, GMS21, SSS<sup>+</sup>20, ZQB<sup>+</sup>21]. **Low** [BBL<sup>+</sup>21, PBP<sup>+</sup>23, BTT23, BS20, BGM<sup>+</sup>21, BPG<sup>+</sup>22, CTM<sup>+</sup>21, CBHB21, CBD<sup>+</sup>23, EBK<sup>+</sup>20, FRRG<sup>+</sup>21, KRB<sup>+</sup>21, KKP<sup>+</sup>21, LDGB<sup>+</sup>24, MCYR20, OBL20, PUH<sup>+</sup>23, SDB<sup>+</sup>23, TKA21]. **low-energy** [SDB<sup>+</sup>23]. **low-level** [BPG<sup>+</sup>22]. **low-light** [KKP<sup>+</sup>21, TKA21]. **low-molecular** [BGM<sup>+</sup>21]. **low-oxygen-adapted** [CBD<sup>+</sup>23]. **low-quality** [FRRG<sup>+</sup>21]. **low-salinity** [OBL20]. **low-sulfate** [PUH<sup>+</sup>23]. **lower** [EJM<sup>+</sup>23, FPBG<sup>+</sup>22, TMSL22, DSY20]. **lowland** [MHL<sup>+</sup>20, PHB<sup>+</sup>22, RWT<sup>+</sup>21]. **lysates** [WCC20, ZLW<sup>+</sup>21a].

**m** [BGM<sup>+</sup>22]. **MA** [LVHK20]. **Machine** [OAM<sup>+</sup>22, MT23, RWMP<sup>+</sup>23, SCC<sup>+</sup>21]. **macro** [PBP<sup>+</sup>23, WLS21]. **macro-tidal** [PBP<sup>+</sup>23, WLS21]. **macroalgae** [BDMGH<sup>+</sup>23, DK20, LRRP20, RS21, SH22, SHBA22, SWS<sup>+</sup>22]. **macroalgae-dominated** [SH22]. **macroalgal** [BMR<sup>+</sup>21b, CCFF21, RMH<sup>+</sup>22, TPTS23, WBB<sup>+</sup>21]. **macrobenthic** [SYT<sup>+</sup>21]. **Macrocystis** [SBB<sup>+</sup>21]. **Macrofauna** [NvBE<sup>+</sup>21, HLPT20]. **macrofaunal** [DvOH<sup>+</sup>20]. **macroinvertebrate** [LLC21, LHL<sup>+</sup>21, MHdS<sup>+</sup>21]. **macroinvertebrates** [VKK<sup>+</sup>21, VST<sup>+</sup>22]. **macromolecular** [EHC<sup>+</sup>22, RRAO<sup>+</sup>21, ZLS<sup>+</sup>21]. **macronutrients** [HKM<sup>+</sup>20, MHP<sup>+</sup>23]. **macrophyte** [GGHBS<sup>+</sup>20, LRNG24, MCH<sup>+</sup>21, OGD20, SLHL<sup>+</sup>22, WCZ<sup>+</sup>20]. **macrophyte-** [WCZ<sup>+</sup>20]. **macrophytes** [HGMK22, HZZ<sup>+</sup>20]. **macrotidal** [YXC<sup>+</sup>22]. **magellanicus** [CGR22]. **magna** [LBvE23, RVBP23]. **magnitude** [SMW<sup>+</sup>21, WOT<sup>+</sup>23]. **main** [BAG<sup>+</sup>24, SWS<sup>+</sup>22]. **Maine** [DP22, SMP21]. **mainly** [OYM<sup>+</sup>20]. **major** [BCFI<sup>+</sup>22, EHC<sup>+</sup>22, HSD<sup>+</sup>20, KDZ<sup>+</sup>24, MBB<sup>+</sup>20, NvBE<sup>+</sup>21, YXC<sup>+</sup>22]. **Malawi** [NB20]. **management** [DFJ22, FGP22, XMP<sup>+</sup>21]. **Manganese** [LWvdM<sup>+</sup>21, SZY<sup>+</sup>20, BTT23, CLD<sup>+</sup>23, HPB<sup>+</sup>21, LHS<sup>+</sup>21, MCS<sup>+</sup>23, SGA<sup>+</sup>22]. **Manganese/iron** [SZY<sup>+</sup>20]. **Manganese/iron-supported** [SZY<sup>+</sup>20]. **mangrove** [BSB<sup>+</sup>20, CSC<sup>+</sup>21, CMCC24, CEE<sup>+</sup>22, EJM<sup>+</sup>23, HFL<sup>+</sup>20, KHK<sup>+</sup>22, KDZ<sup>+</sup>24, LAB<sup>+</sup>22, PBP<sup>+</sup>23, RMW<sup>+</sup>21, SSS<sup>+</sup>20, YOXC23, vHHP<sup>+</sup>21, vHHP<sup>+</sup>22].

**mangrove-dominated** [CMCC24, RMW<sup>+21</sup>]. **mangrove-fringed** [KDZ<sup>+24</sup>]. **mangrove-seagrass** [KHK<sup>+22</sup>]. **mangroves** [HMP<sup>+21</sup>].  
**mapping** [PSY<sup>+22</sup>]. **Mara** [MGI<sup>+22</sup>]. **marginal** [FXD<sup>+22</sup>, LLK<sup>+22</sup>, LCZ<sup>+21</sup>, WXK<sup>+22</sup>, YWZZ20]. **mariculture** [XYL<sup>+23</sup>].  
**marina** [GGS<sup>+21</sup>, SIP21]. **Marine** [EFC<sup>+23</sup>, MHD<sup>+22</sup>, SRV<sup>+20</sup>, ARPF23, AMC21, BMG<sup>+23</sup>, BHSG<sup>+20</sup>, BMCS23, BPIBN20, BFE<sup>+20</sup>, CML23, CBT<sup>+21</sup>, CHA<sup>+24</sup>, DCJB22, DBB<sup>+21</sup>, DWW<sup>+21</sup>, DCK<sup>+22</sup>, EHC<sup>+22</sup>, EJRC<sup>+23</sup>, EWF22, GBW24, GM22, GFW<sup>+20</sup>, GAS<sup>+23</sup>, HLKD23, HVMS<sup>+21</sup>, JHSG<sup>+24</sup>, JHS<sup>+21</sup>, JLMW21, KOR<sup>+20</sup>, LCMG<sup>+20</sup>, LG21, LD22, LCM<sup>+22</sup>, LSL<sup>+20</sup>, LN21, LMSN23, MLK<sup>+22</sup>, MNM<sup>+21</sup>, MUGL20, MLP21b, MZW<sup>+21</sup>, MK20, OBL21, OGD20, PPB<sup>+21</sup>, PDK<sup>+23</sup>, SJR21, SB22, SEG21, SGK<sup>+21</sup>, ST22, TCS21, VKB<sup>+22</sup>, WWGP21, YAP<sup>+22</sup>, YSHS22, ZR23, ZZHZ23, ZLL<sup>+24</sup>, ZLL<sup>+21</sup>, ZFQ<sup>+20</sup>].  
**Marked** [IJSC20]. **marker** [DAB<sup>+21</sup>]. **marsh** [BVM<sup>+20</sup>, CZH<sup>+21</sup>, DKPS23, EJM<sup>+23</sup>, HSBC20, KBB<sup>+22</sup>, LVHK20, LSC<sup>+21</sup>, MEQBV20, OJUN23, PNT<sup>+21</sup>, RWMP<sup>+23</sup>, SVBT20, SRN<sup>+21</sup>, SWK<sup>+23</sup>, XWL<sup>+21</sup>, ZLN21].  
**marsh-influenced** [LSC<sup>+21</sup>]. **marshes** [GBMKJ22, LGF22, MKM<sup>+23</sup>, QMG21, TEK<sup>+21</sup>, YLT<sup>+20</sup>]. **masks** [BYS<sup>+23</sup>, LDB<sup>+20</sup>]. **mass** [BAG<sup>+24</sup>, ESW<sup>+21</sup>, JYA21, KBSA21, LVDM22, LLC<sup>+23</sup>, RFB<sup>+22</sup>, RST<sup>+21</sup>, SH22, YWZ<sup>+21</sup>]. **masses** [EBK<sup>+20</sup>, FBRG23].  
**Massive** [MBLA<sup>+21</sup>, YAP<sup>+22</sup>]. **Masthead** [Ano20z, Ano20-27, Ano20-28, Ano20-29, Ano20-30, Ano20-31, Ano20-32, Ano20-33, Ano20-34, Ano20-35, Ano20-36, Ano20-37, Ano21q, Ano21r, Ano21s, Ano21t, Ano21u, Ano21v, Ano21w, Ano21x, Ano21y, Ano21z, Ano21-27, Ano21-54, Ano21-28, Ano22r, Ano22-30, Ano22s, Ano22t, Ano22u, Ano22v, Ano22w, Ano22x, Ano22y, Ano22z, Ano22-27, Ano22-28, Ano22-29, Ano22b, Ano23m, Ano23n, Ano23o, Ano23p, Ano23q, Ano23r, Ano23s, Ano23t, Ano23u, Ano23v, Ano23w, Ano23x, Ano24d, Ano24e, Ano24f]. **mat** [MVBG20]. **matching** [LEB21]. **material** [HPF<sup>+23</sup>]. **matrix** [GRJ20].  
**mats** [MVBG20]. **matter** [AVJ<sup>+24</sup>, ABS<sup>+21</sup>, AKT<sup>+21</sup>, AMC21, BAG<sup>+24</sup>, BSF<sup>+21</sup>, BBH<sup>+20</sup>, BAD<sup>+21</sup>, BGG<sup>+20</sup>, BYS<sup>+23</sup>, BJG<sup>+22</sup>, BZK<sup>+22</sup>, BGM<sup>+21</sup>, CPB<sup>+21</sup>, CTP21, CLC<sup>+22</sup>, CM21, CCDM21, DVL<sup>+23</sup>, DLC<sup>+22</sup>, FAB<sup>+20</sup>, FXD<sup>+22</sup>, GMI<sup>+21</sup>, GAS<sup>+23</sup>, HOB<sup>+22</sup>, HHK<sup>+22</sup>, HCS<sup>+21</sup>, JSB<sup>+20</sup>, KAP<sup>+20</sup>, KDZ<sup>+24</sup>, KBB<sup>+22</sup>, KHCG<sup>+22</sup>, LBBM21, LRdGFP23, LMM<sup>+21</sup>, LNR<sup>+20</sup>, LD22, LSC<sup>+21</sup>, LTH21, LXC<sup>+21b</sup>, LPO<sup>+20</sup>, LLTT<sup>+24</sup>, MGL22, MEQBV20, PBC21, PSNG<sup>+21</sup>, PWS<sup>+20</sup>, PGN<sup>+21</sup>, RvHF<sup>+20</sup>, RLP<sup>+20</sup>, RCMA21, SB20, SB22, SEK20, SSWM20, SCB<sup>+20</sup>, SGSD<sup>+22</sup>, TSX<sup>+23</sup>, WCC20, YGD<sup>+21</sup>, ZCZ<sup>+23</sup>, ZZT<sup>+21</sup>, ZYZ<sup>+21</sup>, ZZB<sup>+20</sup>, dMKB<sup>+20</sup>].  
**matters** [FGP22, TPTS23]. **maturation** [RVBP23]. **Maud** [DLDF21].  
**maxima** [SWOR20]. **maximum** [SMNT22, SPLJA<sup>+20</sup>]. **may** [HVMS<sup>+21</sup>, MHD<sup>+22</sup>, OJUN23, SSEO21]. **Meadow** [THVJ23, CB21b, SVMM<sup>+22</sup>, VLP<sup>+21</sup>]. **meadows** [AHC22, CCFF21, JREVB21, SN22, dSNIB22]. **measurable** [CSD<sup>+24</sup>].  
**measured** [DAD<sup>+21</sup>, WO21]. **Measurement** [EAF<sup>+22</sup>, MHMML<sup>+22</sup>].

**measurements**

[BVM<sup>+</sup>20, CZS<sup>+</sup>22, DLDF21, KSR20, Lem20, SSM<sup>+</sup>22a, SEG21].

**mechanical** [XSZ<sup>+</sup>21]. **mechanics** [CCG<sup>+</sup>22, CUS21, SMF20]. **mechanism** [GLN<sup>+</sup>20, YXC<sup>+</sup>22]. **Mechanisms**

[BWB<sup>+</sup>22, PLLM21, STAK22, BPL22, WDS<sup>+</sup>23]. **Mechanistic** [ALG<sup>+</sup>23].

**mechanoreceptional** [SYMF21]. **mediate** [LWS<sup>+</sup>22]. **mediated**

[GLM<sup>+</sup>23, SRN<sup>+</sup>21, VJS<sup>+</sup>20, WKRL<sup>+</sup>23]. **mediates** [PCJ<sup>+</sup>21]. **mediating**

[HLPT20]. **mediation** [CBN21, WMTJW22, ZTT23]. **Mediterranean**

[GCEM<sup>+</sup>23, GLM<sup>+</sup>23, MGP<sup>+</sup>21, MBC<sup>+</sup>21, RHS<sup>+</sup>22, SORGC<sup>+</sup>21]. **meet**

[HMBB21]. **Meiler** [ZR23]. **meiobenthic** [LBG<sup>+</sup>22, RLP<sup>+</sup>20]. **meiofauna**

[MHG<sup>+</sup>23, PCN22]. **melt** [KPG<sup>+</sup>23, VMP<sup>+</sup>21]. **meltwater** [MCS<sup>+</sup>23].

**Members** [Ano20-38, Ano20-39, Ano20-40, Ano20-41, Ano20-42, Ano20-43,

Ano20-44, Ano20-45, Ano20-46, Ano20-47, Ano20-48, Ano20-49, Ano21-29,

Ano21-30, Ano21-31, Ano21-32, Ano21-33, Ano21-34, Ano21-35, Ano21-36,

Ano21-37, Ano21-38, Ano21-39, Ano21-55, Ano21-40, Ano22-31, Ano22-43,

Ano22-32, Ano22-33, Ano22-34, Ano22-35, Ano22-36, Ano22-37, Ano22-38,

Ano22-39, Ano22-40, Ano22-41, Ano22-42, Ano22c, Ano23y, Ano23z,

Ano23-27, Ano23-28, Ano23-29, Ano23-30, Ano23-31, Ano23-32, Ano23-33,

Ano23-34, Ano23-35, Ano23-36, Ano24g, Ano24h, Ano24i]. **Mercenaria**

[MURK20]. **Mercury**

[CESS21, RCMA21, BAG<sup>+</sup>24, BCA<sup>+</sup>20, SGGB21, TUR<sup>+</sup>20].

**mercury-cycling** [BCA<sup>+</sup>20]. **mercy** [RHM<sup>+</sup>21]. **Meretrix** [SYT<sup>+</sup>21].

**meromictic** [CYPRG<sup>+</sup>23, TZF<sup>+</sup>22]. **mesocosm** [SSM<sup>+</sup>22a]. **mesocosms**

[HS21, RLL<sup>+</sup>21, TVB<sup>+</sup>21]. **mesopelagic**

[BBM21, CLT<sup>+</sup>22, LPO<sup>+</sup>20, OLR<sup>+</sup>23, SWC<sup>+</sup>23, WSZ22a, WSZ22b].

**mesophotic** [FPBG<sup>+</sup>22, LMS23, MSL21, RFB<sup>+</sup>22, SWS<sup>+</sup>22].

**mesopredator** [RS20]. **mesoscale** [ACE<sup>+</sup>22]. **mesotrophic** [TMM<sup>+</sup>20].

**Mesozooplankton** [CDA<sup>+</sup>20, GNO22, SSM21b]. **meta**

[BR22, CSM<sup>+</sup>23, PHM21]. **meta-barcoding** [CSM<sup>+</sup>23]. **meta-ecosystem**

[PHM21]. **meta-ecosystems** [BR22]. **Metabolic**

[Ano21a, DMC<sup>+</sup>22, GSG<sup>+</sup>17, BMR<sup>+</sup>21a, CYPRG<sup>+</sup>23, MSG<sup>+</sup>22, MGRR<sup>+</sup>21].

**Metabolism**

[RRHS<sup>+</sup>21, BBMD20, BYS<sup>+</sup>23, BCL<sup>+</sup>22, BHA<sup>+</sup>22, CB21b, CZK<sup>+</sup>23, EDC24,

EJRRC<sup>+</sup>23, HHK<sup>+</sup>22, KVKS22, LAD<sup>+</sup>22, LRdGFP23, MA21, MGWS23,

MRT<sup>+</sup>24, PHB<sup>+</sup>22, Phi20, Phi21, RVS<sup>+</sup>22, SBB20, TCP<sup>+</sup>22, WCC20].

**Metabolite** [JLS<sup>+</sup>20, JSL<sup>+</sup>23]. **metabolites** [LSS<sup>+</sup>24]. **metabolome**

[BMGK22]. **metacommunity** [GGHBS<sup>+</sup>20, GGLH<sup>+</sup>22]. **Metagenomics**

[BVM<sup>+</sup>20, Kir20, BWV<sup>+</sup>20, GMMW20, MVBG20]. **metal** [DBB<sup>+</sup>21].

**metalimnion** [Ano21a, GSG<sup>+</sup>17]. **metals**

[BBA<sup>+</sup>23, HKM<sup>+</sup>20, KDZ<sup>+</sup>24, WOMWR20]. **Metamorphosis** [BFCC<sup>+</sup>21].

**metapopulation** [GRJ20]. **metatranscriptomes** [LABM20].

**Meteorological** [AH20]. **meter** [BKMY21]. **Methane**

[LVDM22, LDS<sup>+</sup>20, YWZZ20, AHCF22, AWB<sup>+</sup>23, AGC<sup>+</sup>21, BVL<sup>+</sup>23,

BBH<sup>+</sup>20, DHNH22, GMI<sup>+</sup>21, GPK<sup>+</sup>21, GKW<sup>+</sup>20, GKW<sup>+</sup>21, HGMK22,



HNS21, KWS<sup>+21</sup>, LHD<sup>+20</sup>, LPA<sup>+23</sup>, MWHR<sup>+22</sup>, PSK21, RHA<sup>+23</sup>, RWT<sup>+21</sup>, RSH<sup>+20</sup>, SPBK21, SBW<sup>+20</sup>, SSM<sup>+22b</sup>, SZY<sup>+20</sup>, TKS<sup>+20</sup>, TMM<sup>+20</sup>, VJS<sup>+20</sup>, VJH<sup>+22</sup>, YOXC23, ZLL<sup>+24</sup>, vGDH<sup>+21</sup>.  
**methane-derived** [TKS<sup>+20</sup>, vGDH<sup>+21</sup>]. **methanogen** [BBH<sup>+20</sup>].  
**methanogenesis** [BVL<sup>+23</sup>, SSM<sup>+21a</sup>]. **Methanogens** [EJM<sup>+23</sup>].  
**methanotroph** [vGDH<sup>+21</sup>]. **method** [LAB<sup>+22</sup>]. **methylating** [CBB<sup>+22</sup>].  
**methylmercury** [BC20, TKW<sup>+23</sup>, YJB<sup>+20</sup>]. **Methylobacter** [vGDH<sup>+21</sup>].  
**Methylothera** [vGDH<sup>+21</sup>]. **methylotheroph** [vGDH<sup>+21</sup>]. **metric** [KKA22].  
**metropolitan** [RTM<sup>+21</sup>]. **Mexico**  
 [KPS21, MLP<sup>+21a</sup>, PMRG20, WSZ22a, WSZ22b, YMSH20]. **Meyer**  
 [Ano21b]. **Meyer-Kaiser** [Ano21b]. **Michigan** [CTP21, RPA<sup>+22</sup>]. **micro**  
 [MMLPRHCG22]. **micro-computed** [MMLPRHCG22]. **microalga**  
 [GAS<sup>+21</sup>, RGW<sup>+23</sup>]. **microalgae** [BLS20, WRHR22]. **microalgal** [SRM23].  
**microbe** [TKH21]. **microbes** [BRB<sup>+20</sup>, BFE<sup>+20</sup>, LABM20, ST22, TSX<sup>+23</sup>].  
**Microbial**  
 [BRB<sup>+20</sup>, MAD<sup>+22</sup>, RvHF<sup>+20</sup>, RCS<sup>+20</sup>, BHSG<sup>+20</sup>, BSGA21, BGG<sup>+20</sup>,  
 BWV<sup>+20</sup>, BMLV24, BZK<sup>+22</sup>, CYPRG<sup>+23</sup>, CLC<sup>+22</sup>, CGL<sup>+21</sup>, DBB<sup>+21</sup>,  
 DCF<sup>+22</sup>, FAB<sup>+20</sup>, FLW<sup>+21</sup>, GM22, GMMW20, GPK<sup>+21</sup>, HBY<sup>+22</sup>, HMB<sup>+20</sup>,  
 HLS<sup>+22</sup>, IMB<sup>+22</sup>, KHSP21, LD22, LZD<sup>+23</sup>, MVBG20, MCYR20, OBB<sup>+20</sup>,  
 OYM<sup>+20</sup>, PWS<sup>+20</sup>, RLL<sup>+21</sup>, RBAC<sup>+20</sup>, SBB20, SB20, SGSD<sup>+22</sup>, TMS<sup>+21</sup>,  
 VGSB23, VKGW22, VJH<sup>+22</sup>, XKP<sup>+22</sup>, XTJW21, ZR23, ZTT23, vEMF<sup>+20</sup>].  
**microbialite** [IMB<sup>+22</sup>, MVBG20]. **microbialite-bearing** [IMB<sup>+22</sup>].  
**Microbially** [ZCZ<sup>+23</sup>]. **microbiology** [JLMW21]. **Microbiome**  
 [CYZZ<sup>+20</sup>, HMM<sup>+22</sup>, SSS<sup>+24</sup>]. **microbiomes** [HZZ<sup>+20</sup>, XTL<sup>+20</sup>].  
**microcrystals** [LN21]. **microcystin** [CWF<sup>+22</sup>]. **Microcystis**  
 [CLC<sup>+20</sup>, CLC<sup>+21</sup>, MDP<sup>+23</sup>]. **microenvironment** [EWGP22].  
**microenvironments** [EBW<sup>+20</sup>]. **microevolutionary** [ZZCD23].  
**microfocus** [IKN<sup>+21</sup>]. **microheterogeneity** [KHSP21]. **microorganisms**  
 [CBB<sup>+22</sup>, CKH<sup>+21</sup>, EPR<sup>+24</sup>]. **microphytobenthos** [DvOH<sup>+20</sup>, ORE20].  
**microplankton** [KHHZ20]. **Microplastic** [BZSF23, DWR<sup>+23</sup>, EAF<sup>+22</sup>].  
**microplastics** [GLM<sup>+23</sup>, KWB21]. **Microscopy** [CBN21, KAC<sup>+23</sup>].  
**microsporidian** [CML23]. **Microzooplankton**  
 [MMG<sup>+21</sup>, LCZ<sup>+21</sup>, LNC<sup>+23</sup>]. **Mid** [KCT23, RHM<sup>+21</sup>]. **mid-latitudes**  
 [RHM<sup>+21</sup>]. **Mid-summer** [KCT23]. **midlatitude** [BAHH<sup>+20</sup>]. **midwater**  
 [VSB<sup>+23</sup>]. **Midwest** [BJG<sup>+22</sup>]. **migrating** [PJRV23]. **migration**  
 [BJS23a, BBM21, GNO22, TGE<sup>+21</sup>, WSZ22a, WSZ22b]. **millennial**  
 [KSH<sup>+23</sup>, vHLV<sup>+20</sup>]. **millennial-aged** [KSH<sup>+23</sup>]. **mimics** [GLN<sup>+20</sup>]. **mine**  
 [BWV<sup>+20</sup>]. **Mineral** [EBW<sup>+20</sup>, PYY<sup>+20</sup>, SdBW<sup>+23</sup>, VJS<sup>+20</sup>].  
**mineral-bound** [SdBW<sup>+23</sup>]. **mineral-soil** [VJS<sup>+20</sup>]. **mineralization**  
 [LMM<sup>+21</sup>, vEMF<sup>+20</sup>]. **Minerogenic** [MKM<sup>+23</sup>, KBB<sup>+22</sup>]. **minima**  
 [SCT<sup>+21</sup>]. **minimum** [CCK<sup>+21</sup>, THL<sup>+21</sup>, WRA<sup>+23</sup>, LZG21]. **mining**  
 [CLGH23, LMS<sup>+21</sup>, OBB<sup>+20</sup>]. **minute** [GK22]. **missing** [VGSB23].  
**Mississippi** [GBHF21, LTH21, Roy20, TMSL22]. **mitigate** [SSEO21].  
**mitigates** [MDWT<sup>+22</sup>]. **mixed** [SBW21, SSB<sup>+22</sup>]. **Mixing**

[CM20b, EPR<sup>+24</sup>, YWLY20, AVS<sup>+22</sup>, GK22, HPP<sup>+21</sup>, IFU<sup>+20</sup>, LLC<sup>+23</sup>, LXC<sup>+21a</sup>, NH22, PFH21, PW22, ZSF<sup>+23</sup>]. **Mixing-driven** [EPR<sup>+24</sup>]. **mixoplankton** [GM22]. **Mixotrophic** [GDB20, AH20, ELS23, LES<sup>+21</sup>]. **Mixotrophy** [TCS21, BH21]. **mixtures** [FDHS20]. **Mn** [BYB<sup>+23</sup>, CLD<sup>+23</sup>, dCLO<sup>+23</sup>]. **Mn-oxidizing** [CLD<sup>+23</sup>]. **Mnemiopsis** [CCG<sup>+22</sup>]. **Model** [OLR<sup>+23</sup>, BST<sup>+22</sup>, CYPRG<sup>+23</sup>, DFJ22, DK20, GMNG<sup>+24</sup>, GMI<sup>+21</sup>, HPF<sup>+23</sup>, HDS<sup>+20</sup>, IFU<sup>+20</sup>, LZG21, LTLH22, PSNS22, WRA<sup>+23</sup>, WSZ22a, WSZ22b, ZLN21]. **Modeled** [LAB<sup>+22</sup>, MURK20]. **Modeling** [CLGH23, GLM<sup>+23</sup>, LVHK20, PC21, SBB20, YGD<sup>+21</sup>, APB<sup>+23</sup>, BSF<sup>+21</sup>, BR22, KBSA21, MAG<sup>+22</sup>, PHB<sup>+22</sup>, WRMP22]. **models** [KSF<sup>+23</sup>, LCMG<sup>+20</sup>, MBD<sup>+23</sup>, RPA<sup>+22</sup>, WMTJW22]. **moderate** [MHD<sup>+22</sup>]. **modern** [SLHL<sup>+22</sup>, vHLV<sup>+20</sup>]. **modification** [GÖA<sup>+23</sup>, NTJ<sup>+20</sup>, TCP<sup>+22</sup>]. **modified** [KFHS24, RCMA21]. **modify** [MK21]. **modular** [MMLPRHCG22]. **modulate** [SMF20, WWFS21, ZBNH<sup>+21</sup>]. **modulated** [GR24]. **modulates** [ABC<sup>+21</sup>, KKP<sup>+21</sup>, WOT<sup>+23</sup>]. **modulating** [JREVB21, TGE<sup>+21</sup>]. **modulation** [CHAA21]. **Molecular** [LD22, SB20, BGM<sup>+21</sup>, CLC<sup>+22</sup>, HDS<sup>+20</sup>, MGC<sup>+20</sup>, ZYZ<sup>+21</sup>]. **molecules** [LPO<sup>+20</sup>, ZLW<sup>+21a</sup>]. **molybdenum** [FSH<sup>+23</sup>]. **Monitoring** [ASL<sup>+24</sup>, BCWS23, FJP<sup>+21</sup>, THS21]. **monocultures** [FDHS20]. **monomictic** [GWS<sup>+21</sup>, SGS22, XTL<sup>+20</sup>]. **montane** [LHL<sup>+21</sup>]. **Monterey** [FHMK20, TRS<sup>+20</sup>]. **month** [GWS<sup>+21</sup>]. **monthly** [IOS24]. **moon** [OLR<sup>+23</sup>]. **Morocco** [NEB<sup>+22</sup>]. **morphological** [GWS<sup>+21</sup>]. **morphologically** [BRCO21]. **Morphology** [BRHS20, MDWT<sup>+22</sup>, OBL21, SRN<sup>+21</sup>, SGM<sup>+22</sup>]. **mortality** [CCC<sup>+21</sup>, KSI24, SH22, Wei24]. **mosaic** [CEW<sup>+21</sup>]. **mostly** [MBH<sup>+23</sup>]. **motion** [JvKvT<sup>+20</sup>]. **Mountain** [VMT<sup>+24</sup>, CCA<sup>+21</sup>, CGGC<sup>+21</sup>, CESS21, ESW<sup>+21</sup>, JSPS24, MHVC22, PFB<sup>+22</sup>, WK21]. **Mountains** [VMT<sup>+24</sup>]. **mouths** [EST<sup>+24</sup>]. **Moving** [FDF<sup>+21</sup>]. **Mu** [CLGH23]. **mucus** [BH21]. **Mud** [MEQB20]. **Mud-associated** [MEQB20]. **muddy** [CGD22, MHG<sup>+23</sup>]. **Multi** [FR23, ZSZ<sup>+21</sup>, GCEM<sup>+23</sup>, vHLV<sup>+20</sup>]. **multi-millennial** [vHLV<sup>+20</sup>]. **Multi-omics** [ZSZ<sup>+21</sup>]. **multi-taxon** [GCEM<sup>+23</sup>]. **Multi-year** [FR23]. **multiarm** [ILPL20]. **multibasin** [ILPL20]. **multibeam** [PSY<sup>+22</sup>]. **Multiclonal** [LBvE23]. **Multidecadal** [KLO23, BJJ<sup>+22</sup>]. **multifactorial** [WBB<sup>+21</sup>]. **Multigenerational** [dJGCS23]. **multilake** [DMM<sup>+21</sup>]. **Multiple** [KBvdD<sup>+20</sup>, CBPNA22, CESS21, GBW24, HHMH22, HMBB21, KDV<sup>+23</sup>, LHL<sup>+21</sup>, MVP<sup>+20</sup>, WPO<sup>+22</sup>, ZJ22b]. **Multiscale** [SCM22]. **multistressor** [DK20]. **multitasking** [GM22]. **multitrophic** [BPG<sup>+22</sup>]. **multivariate** [ZJ22a]. **multiyear** [SGS22]. **mussel** [NTJ<sup>+20</sup>]. **mussels** [LGQ<sup>+21</sup>]. **mutualistic** [FPBG<sup>+22</sup>]. **mysid** [BWSW24]. **Mytilus** [NTJ<sup>+20</sup>].

**N** [ZLW<sup>+21a</sup>, AAC<sup>+21</sup>, AFH<sup>+22</sup>, BSGA21, DRA<sup>+23</sup>, HBS<sup>+22</sup>, HZC<sup>+24</sup>, HMB<sup>+22</sup>, LLL<sup>+23</sup>, LTLH22, MLL<sup>+21</sup>, SCC<sup>+21</sup>, SWS<sup>+22</sup>, TZF<sup>+22</sup>, hTRH20,

WWGP21]. **N-containing** [ZLW<sup>+</sup>21a]. **nano** [KKP<sup>+</sup>21]. **nano-diatom** [KKP<sup>+</sup>21]. **nanoflagellate** [LES<sup>+</sup>21]. **nanoflagellates** [STAK22]. **nanoparticle** [YPF<sup>+</sup>23]. **nanoplankton** [KPS21]. **nanoscale** [XSZ<sup>+</sup>21]. **narcomedusa** [VSB<sup>+</sup>23]. **narrow** [SLJ<sup>+</sup>22]. **national** [PATL<sup>+</sup>23]. **national-scale** [PATL<sup>+</sup>23]. **native** [BDMGH<sup>+</sup>23, HSP<sup>+</sup>20, LCS<sup>+</sup>20, MWV22, WTvD<sup>+</sup>22]. **Natural** [FBK<sup>+</sup>22, AFM23, CTM<sup>+</sup>21, DVL<sup>+</sup>23, HBR<sup>+</sup>22, LMSN23, NDP<sup>+</sup>24, RBL<sup>+</sup>20, SdBW<sup>+</sup>23, vHLV<sup>+</sup>20]. **naturally** [MNMJ<sup>+</sup>21, SSB<sup>+</sup>22]. **Nature** [LSW<sup>+</sup>20a]. **Near** [PMD<sup>+</sup>23, RBAC<sup>+</sup>20, KPS21, NCC<sup>+</sup>21, SBV<sup>+</sup>21]. **Near-bed** [PMD<sup>+</sup>23]. **nearly** [YG23]. **nearshore** [MOW<sup>+</sup>22, MK21, SO23, SOT<sup>+</sup>20]. **negates** [WM20]. **negative** [MDWT<sup>+</sup>22, SSEO21]. **neglected** [ZLZ<sup>+</sup>21]. **negligible** [AHCF22]. **neighboring** [ZvBZ<sup>+</sup>20]. **Neogoniolithon** [GTKW<sup>+</sup>20]. **neogracile** [KMM<sup>+</sup>22]. **Neotropical** [BWB<sup>+</sup>22]. **neritic** [CPBJR<sup>+</sup>21]. **nerka** [ASH<sup>+</sup>20]. **Net** [CB21b, MSG<sup>+</sup>22, BCCA<sup>+</sup>21, CBC<sup>+</sup>22, LSDA21, ZLL<sup>+</sup>21]. **network** [AFH<sup>+</sup>22, GRJ20, LWS<sup>+</sup>22, MHSL22, PSE<sup>+</sup>20, RVS<sup>+</sup>22, WMTJW22]. **networks** [BGAD<sup>+</sup>22, DPB<sup>+</sup>23, LGF22, SJH20, ZZT<sup>+</sup>21]. **neural** [SJH20]. **neutrally** [FGO<sup>+</sup>20]. **Nevada** [CM20a]. **Ni** [LTLH22, hTRH20]. **Niche** [TKA21, BO20, CYPRG<sup>+</sup>23, CHA<sup>+</sup>24, CUS21, CGB<sup>+</sup>21, EJM<sup>+</sup>23, KKP<sup>+</sup>21, LTJ<sup>+</sup>20, MCYR20, SSS<sup>+</sup>24]. **niches** [Gil22, RFB<sup>+</sup>22, SHZ<sup>+</sup>21]. **niffh** [MBD<sup>+</sup>22]. **night** [KGG<sup>+</sup>23, MLG<sup>+</sup>20, vdPAV<sup>+</sup>20]. **Niño** [WRS<sup>+</sup>22]. **Nitrate** [AWGV20, LXC<sup>+</sup>21a, vGDH<sup>+</sup>21, BVM<sup>+</sup>20, CEW<sup>+</sup>21, CDW<sup>+</sup>24, LTH21, RWS<sup>+</sup>22, SZA<sup>+</sup>21, WRS<sup>+</sup>22, WAPC20, XLN21]. **Nitrification** [LMC<sup>+</sup>21, HRK<sup>+</sup>22, HGF<sup>+</sup>21, PCC<sup>+</sup>23, SWB<sup>+</sup>20]. **nitrifiers** [BMCS23]. **nitrite** [ETMD23]. **Nitrogen** [AHCJ<sup>+</sup>20, JHSG<sup>+</sup>24, LLTT<sup>+</sup>24, SWS<sup>+</sup>22, WLK<sup>+</sup>21, ABS<sup>+</sup>21, ARBvS<sup>+</sup>21, AMO20, AVS<sup>+</sup>22, BRB<sup>+</sup>20, BDL<sup>+</sup>21, BKMY21, BRM<sup>+</sup>23, CBF<sup>+</sup>23, CDW<sup>+</sup>24, DWW<sup>+</sup>21, DWS<sup>+</sup>22, FBP20, FPB<sup>+</sup>23, GBO<sup>+</sup>20, HRK<sup>+</sup>22, HHMH22, HANW21, HSBC20, HSD<sup>+</sup>20, HMB<sup>+</sup>22, KTA<sup>+</sup>21, KRC23, KHHZ20, LDGB<sup>+</sup>23, LTH21, MNM<sup>+</sup>21, MLL<sup>+</sup>21, MCYR20, ORE20, RGP<sup>+</sup>22, RS21, Roy20, STB22, SMW<sup>+</sup>21, SWZ<sup>+</sup>23, SHE<sup>+</sup>21, SML21b, SLZ<sup>+</sup>21a, SSR<sup>+</sup>23, THVJ23, VWR<sup>+</sup>23, WWFS21, WRS<sup>+</sup>22, WDS<sup>+</sup>23, WKRL<sup>+</sup>23, YG23, ZQB<sup>+</sup>21, ZBNH<sup>+</sup>21, ZFQ<sup>+</sup>20, ZXZ<sup>+</sup>23]. **nitrogen-enrichment** [HHMH22]. **nitrogen-fixing** [FBP20, YG23, ZFQ<sup>+</sup>20]. **nitrogenase** [LTLH22]. **Nitrous** [TTC<sup>+</sup>22, AHCF22, FSS<sup>+</sup>23, HBR<sup>+</sup>22, LMC<sup>+</sup>21, LPMBR23, RTM<sup>+</sup>20, RTM<sup>+</sup>21, WLK<sup>+</sup>21, ZZO<sup>+</sup>21]. **No** [CSH21, CBS<sup>+</sup>21, PPB<sup>+</sup>21]. **nocturnal** [MDIY23]. **nodosa** [JREVB21]. **Non** [FBP20, HMB<sup>+</sup>22, ZXZ<sup>+</sup>23]. **non-algal** [ZXZ<sup>+</sup>23]. **Non-cyanobacterial** [FBP20]. **non-N-fixing** [HMB<sup>+</sup>22]. **Nonlinear** [BJG<sup>+</sup>22, SPHH22, HHK<sup>+</sup>22, PRS<sup>+</sup>20]. **nonphotochemical** [CGB<sup>+</sup>21]. **Nonrandom** [GMS21]. **nonvisual** [BBM21]. **North** [BYB<sup>+</sup>23, EBK<sup>+</sup>20, ETMD23, FSS<sup>+</sup>23, THT<sup>+</sup>20, LAD<sup>+</sup>22, MLC<sup>+</sup>21, SML21b, AHCJ<sup>+</sup>20, ADLW22, BMR<sup>+</sup>21a, BAD<sup>+</sup>21, BAHH<sup>+</sup>20, CKH<sup>+</sup>21, CJB<sup>+</sup>21, DNB<sup>+</sup>20, DWS<sup>+</sup>22, DNA<sup>+</sup>22, ETG21, FDF<sup>+</sup>21, FIH<sup>+</sup>20,

GFV<sup>+20</sup>, HBG<sup>+22</sup>, HYPG<sup>+22</sup>, KBvdD<sup>+20</sup>, LTJ<sup>+20</sup>, LNC<sup>+23</sup>, MWV22, MMG<sup>+21</sup>, NvBE<sup>+21</sup>, PDK<sup>+23</sup>, RPKC22, SBW<sup>+20</sup>, SSM<sup>+22a</sup>, SAD<sup>+20</sup>, TKA21, WF22, WRS<sup>+22</sup>, YWZZ20, YWZ<sup>+21</sup>, YAE<sup>+23</sup>, ZBNH<sup>+21</sup>].

**North-Atlantic** [BMR<sup>+21a</sup>]. **north-temperate** [MLC<sup>+21</sup>]. **Northeast** [PYY<sup>+20</sup>, KMV<sup>+20</sup>, SWC<sup>+23</sup>, ZZB<sup>+20</sup>, MMF<sup>+21</sup>, SPKM22, SSM21b].

**Northern**

[MURK20, BTK<sup>+21</sup>, CDA<sup>+20</sup>, CZK<sup>+23</sup>, FSM<sup>+21</sup>, JSB<sup>+20</sup>, KHB22, KPL<sup>+20</sup>, KBL<sup>+20</sup>, MHP<sup>+23</sup>, NEB<sup>+22</sup>, RSH<sup>+20</sup>, VMT<sup>+24</sup>, CMT<sup>+20</sup>].

**northwest** [LSCL21]. **northwestern**

[BDL<sup>+21</sup>, KPS21, LSS<sup>+24</sup>, MZXY22, MY23, MLP<sup>+21a</sup>, YMSH20, SWS<sup>+22</sup>].

**novel** [APB<sup>+23</sup>, ASL<sup>+24</sup>, GLN<sup>+20</sup>, HGH<sup>+21</sup>]. **ново** [DNA<sup>+22</sup>].

**ново-discovery** [DNA<sup>+22</sup>]. **nuisance** [GAS<sup>+21</sup>, RS21]. **null** [LD22, SB22].

**numbers** [ZR23]. **numerical** [GMNG<sup>+24</sup>]. **nursery** [GPDA<sup>+20</sup>]. **Nutrient**

[BYS<sup>+23</sup>, BS20, BAHH<sup>+20</sup>, BVGQN22, LSDA21, NSK<sup>+21</sup>, PKKS20, VMT<sup>+20</sup>, VWR<sup>+23</sup>, AWGV20, ALH<sup>+21</sup>, BGM<sup>+21</sup>, BRM<sup>+23</sup>, CAV<sup>+22</sup>, CFC<sup>+20</sup>, CLGH23, CM21, CMB<sup>+21</sup>, DCF<sup>+22</sup>, DKBG21, DKPS23, EFC<sup>+23</sup>, FMT<sup>+20</sup>, FBV23, GGS<sup>+21</sup>, HSBC20, HCS<sup>+21</sup>, JOC<sup>+20</sup>, JLW<sup>+23</sup>, JHvL<sup>+23</sup>, KRB<sup>+21</sup>, KHK<sup>+22</sup>, LLC<sup>+23</sup>, LBG<sup>+22</sup>, LZM<sup>+21</sup>, LSCL21, MAP<sup>+22</sup>, MSJ21, MRT<sup>+24</sup>, OBL21, PBC21, PHM21, RLL<sup>+21</sup>, RBL<sup>+20</sup>, RBSB22, SDL22, TBH<sup>+22</sup>, VST<sup>+22</sup>, WHAR<sup>+20</sup>, XMP<sup>+21</sup>, YvdHC<sup>+20</sup>]. **Nutrients**

[MGRR<sup>+21</sup>, AFK<sup>+22</sup>, FAB<sup>+20</sup>, KFHS24, LNC<sup>+23</sup>]. **Nutritional**

[JLR<sup>+22</sup>, VKK<sup>+21</sup>]. **NW** [GBB<sup>+21</sup>].

**O** [AFH<sup>+22</sup>, DRA<sup>+23</sup>, EBW<sup>+20</sup>, TZF<sup>+22</sup>, WMRL22]. **obliquus** [ZSZ<sup>+21</sup>].

**Observations**

[KTH<sup>+21</sup>, ZYZ<sup>+21</sup>, APB<sup>+23</sup>, CSM<sup>+23</sup>, FIH<sup>+20</sup>, MBD<sup>+23</sup>, WDG<sup>+21</sup>].

**observatory** [MKBSK19]. **Observed**

[KdED<sup>+20</sup>, HDD<sup>+22</sup>, NH23, SLZ<sup>+21b</sup>]. **occupancy** [CGB<sup>+21</sup>]. **occupation** [CYPRG<sup>+23</sup>]. **Occurrence** [XYZ<sup>+21</sup>, MZW<sup>+21</sup>, MHSL22, ZZT<sup>+21</sup>].

**occurring** [MWHR<sup>+22</sup>, VGvdB<sup>+21</sup>]. **occurs** [MBH<sup>+23</sup>]. **Ocean**

[ARPFGS23, RLP<sup>+20</sup>, SSEO21, YAP<sup>+22</sup>, ARB<sup>+22</sup>, BFW<sup>+22</sup>, CSD<sup>+24</sup>, CSM<sup>+23</sup>, DKPS23, GM22, GLAHH<sup>+23</sup>, HDS<sup>+20</sup>, JHS<sup>+21</sup>, KLO23, KTH<sup>+21</sup>, LD22, LXC<sup>+21a</sup>, MO23, MLP21b, MBD<sup>+23</sup>, MCS<sup>+23</sup>, MFGF<sup>+22</sup>, NSK<sup>+21</sup>, OSR20, ORRMD<sup>+21</sup>, PKV20, RBD22, SBD<sup>+21</sup>, SSH<sup>+22</sup>, SB20, SHZ<sup>+21</sup>, TNK<sup>+22</sup>, TKH21, WWB<sup>+20</sup>, YXC<sup>+22</sup>, ZLU<sup>+20</sup>, dCLO<sup>+23</sup>, ADLW22, BSGA21, BDL<sup>+21</sup>, BRCO21, BDE<sup>+22</sup>, BLRM24, BBA<sup>+23</sup>, CGL<sup>+21</sup>, CKH<sup>+21</sup>, CLD<sup>+23</sup>, CBC<sup>+22</sup>, DFW<sup>+20</sup>, EBK<sup>+20</sup>, ETMD23, HCB<sup>+22</sup>, IKN<sup>+21</sup>, IJSC20, JSL<sup>+23</sup>, LGI<sup>+20</sup>, LWvdM<sup>+21</sup>, LL23, MT23, MSB<sup>+22</sup>, MPW<sup>+23</sup>, MLT<sup>+21</sup>, MGC<sup>+20</sup>, PDK<sup>+23</sup>, PGN<sup>+21</sup>, RKBT<sup>+23</sup>, SBM<sup>+21</sup>, SORGC<sup>+21</sup>, SWC<sup>+23</sup>, SHE<sup>+21</sup>, SJJ<sup>+21</sup>, SBW<sup>+20</sup>, SSM21b, SAD<sup>+20</sup>, TMS<sup>+21</sup>, WRS<sup>+22</sup>, XKP<sup>+22</sup>, XYZ<sup>+21</sup>, YSHS23, ZZO<sup>+21</sup>, ZXE<sup>+23</sup>]. **ocean** [DKPS23]. **Oceanic** [CCG<sup>+22</sup>, FIM<sup>+22</sup>, OMM21, CCK<sup>+21</sup>, CDH<sup>+21</sup>, CBD<sup>+23</sup>, DLL20, EHC<sup>+22</sup>, KTH<sup>+21</sup>, KP20, MCH<sup>+21</sup>, WKRL<sup>+23</sup>, ZZHZ23]. **oceanica** [AAC<sup>+21</sup>, CB21b]. **Oceanogr** [Ano21b]. **Oceanographic**

[MT23, CZS<sup>+22</sup>, FJP<sup>+21</sup>, GSD<sup>+23</sup>, SSA<sup>+23</sup>, TKA21]. **Oceanography** [Ano21a, Kir20]. **oceans** [SSB<sup>+22</sup>, WSLC22, ZCZ<sup>+23</sup>, BCA<sup>+20</sup>, GRJ<sup>+22</sup>]. **octocorals** [PMF<sup>+21</sup>]. **off** [BK20, SVBT20, YGD<sup>+21</sup>]. **offs** [BH21]. **offsets** [BS20, JOC<sup>+20</sup>]. **offshore** [CTP21, KLO23, KPS21]. **Ohrid** [VMT<sup>+20</sup>]. **Oikopleura** [MLS<sup>+21</sup>]. **Okhotsk** [ZZO<sup>+21</sup>]. **old** [MHVC22]. **oligomesotrophic** [KHSP21]. **oligotrophic** [CHP<sup>+24</sup>, CM20a, DdEM<sup>+23</sup>, EPR<sup>+24</sup>, HSB<sup>+20</sup>, LLL<sup>+23</sup>, LXC<sup>+21a</sup>, MHD<sup>+22</sup>, MOW<sup>+22</sup>, RCS<sup>+20</sup>, SGGB21, SBL<sup>+21</sup>, SDB<sup>+23</sup>, SRL<sup>+20</sup>, SGM<sup>+21</sup>, WSLC22]. **oligotrophication** [MHSL22, SDS<sup>+23</sup>]. **omics** [ZSZ<sup>+21</sup>]. **omnivorous** [KGG<sup>+23</sup>, NDP<sup>+24</sup>]. **omnivory** [BOC<sup>+21</sup>]. **Oncorhynchus** [ASH<sup>+20</sup>]. **one** [ZZCD23]. **onset** [ZZL<sup>+21</sup>]. **Ontogenic** [PWS<sup>+20</sup>]. **open** [HJWP24, PKV20, SPKM22]. **open-coast** [SPKM22]. **Opening** [SO23]. **operationally** [LHMR23]. **opportunities** [BR22, MBD<sup>+23</sup>]. **opportunity** [OJUN23]. **Optical** [ADLW22, BHG<sup>+24</sup>, EJRRRC<sup>+23</sup>, LSW<sup>+20a</sup>]. **optically** [BGG<sup>+20</sup>]. **optimization** [TVB<sup>+21</sup>]. **Optimizing** [FGP22]. **Organic** [BAG<sup>+24</sup>, HLS<sup>+22</sup>, KHCG<sup>+22</sup>, PUH<sup>+23</sup>, PGN<sup>+21</sup>, VWR<sup>+23</sup>, AVJ<sup>+24</sup>, ABS<sup>+21</sup>, AKT<sup>+21</sup>, AMC21, BMR<sup>+21a</sup>, BCWS23, BMCS23, BSF<sup>+21</sup>, BPIBN20, BBH<sup>+20</sup>, BAD<sup>+21</sup>, BJK<sup>+21</sup>, BGG<sup>+20</sup>, BYS<sup>+23</sup>, BDL<sup>+21</sup>, BJG<sup>+22</sup>, BZK<sup>+22</sup>, BGM<sup>+21</sup>, CPB<sup>+21</sup>, CTP21, CGC<sup>+21</sup>, CLC<sup>+22</sup>, CM21, CCDM21, DVL<sup>+23</sup>, DdEM<sup>+23</sup>, DLC<sup>+22</sup>, EJRRRC<sup>+23</sup>, FAB<sup>+20</sup>, FUUG<sup>+21</sup>, FXD<sup>+22</sup>, GDB20, GMI<sup>+21</sup>, GAS<sup>+23</sup>, HCB<sup>+22</sup>, HZM<sup>+21</sup>, HOB<sup>+22</sup>, HHK<sup>+22</sup>, HCS<sup>+21</sup>, HP20, JSB<sup>+20</sup>, KAP<sup>+20</sup>, KDZ<sup>+24</sup>, KBB<sup>+22</sup>, LBBM21, LRdGFP23, LMM<sup>+21</sup>, LNR<sup>+20</sup>, LDGB<sup>+23</sup>, LDGB<sup>+24</sup>, LD22, LSC<sup>+21</sup>, LTH21, LZD<sup>+23</sup>, LXC<sup>+21b</sup>, LPO<sup>+20</sup>, LLTT<sup>+24</sup>, MGL22, MEQBV20, MRH<sup>+23</sup>, MRD<sup>+21</sup>, MNMJ<sup>+21</sup>, PBC21, PSNG<sup>+21</sup>, PWS<sup>+20</sup>, PC21, PNT<sup>+21</sup>, RvHF<sup>+20</sup>, RLP<sup>+20</sup>, RCMA21, RBR<sup>+23</sup>, SVM<sup>+22</sup>, SSS<sup>+24</sup>, SB20, SB22, SZA<sup>+21</sup>, SOT<sup>+20</sup>, SEK20, SSWM20, SCB<sup>+20</sup>, SGS22, SGSD<sup>+22</sup>, TSX<sup>+23</sup>, VST<sup>+22</sup>, WCC20, WOK<sup>+21</sup>, WXK<sup>+22</sup>, YGD<sup>+21</sup>, ZCZ<sup>+23</sup>, ZJW<sup>+22</sup>, ZLW<sup>+21a</sup>]. **organic** [ZZT<sup>+21</sup>, ZYZ<sup>+21</sup>, ZZB<sup>+20</sup>, dMKB<sup>+20</sup>]. **organisms** [FGO<sup>+20</sup>]. **organization** [KPNJ23]. **origin** [MRD<sup>+21</sup>]. **origins** [LNR<sup>+20</sup>]. **Orkney** [MSGW<sup>+20</sup>]. **orthophosphate** [RHS<sup>+22</sup>]. **oscillating** [JYA21]. **Oscillation** [LDB<sup>+21</sup>]. **oscillations** [SGS22]. **oscillatory** [MDBI20]. **other** [GFW<sup>+20</sup>, LES<sup>+21</sup>, WWFS21]. **Otolith** [DAB<sup>+21</sup>]. **our** [MVBG20]. **outcompete** [RHS<sup>+22</sup>]. **Outwelling** [KDZ<sup>+24</sup>]. **Overestimation** [GE22]. **overgrowth** [RMH<sup>+22</sup>]. **overlying** [XLN21]. **overrides** [RRHS<sup>+21</sup>, YG23]. **overview** [SPHH22]. **oxic** [CYZZ<sup>+20</sup>, GKW<sup>+20</sup>, GKW<sup>+21</sup>, HGK22, TMM<sup>+20</sup>, XLN21, YWZZ20]. **oxidation** [ACA<sup>+22</sup>, FSS<sup>+23</sup>, GPK<sup>+21</sup>, LVDM22, LPO<sup>+20</sup>, LPA<sup>+23</sup>, MSB<sup>+22</sup>, MWHR<sup>+22</sup>, RRHS<sup>+21</sup>, RSH<sup>+20</sup>, SHE<sup>+21</sup>, SSM<sup>+22b</sup>, SZY<sup>+20</sup>, THL<sup>+21</sup>]. **oxidative** [MRT<sup>+24</sup>]. **oxide** [AHC22, FSS<sup>+23</sup>, HBR<sup>+22</sup>, LMC<sup>+21</sup>, LPMBR23, RTM<sup>+20</sup>, RTM<sup>+21</sup>, TTC<sup>+22</sup>, WLK<sup>+21</sup>, ZZO<sup>+21</sup>]. **oxidizing** [CLD<sup>+23</sup>]. **Oxygen** [BKMY21, CBB<sup>+22</sup>, HJWP24, SMCS23, AHCJ<sup>+20</sup>, BYB<sup>+23</sup>, CCK<sup>+21</sup>,

CGGC<sup>+21</sup>, CKCB<sup>+23</sup>, CBD<sup>+23</sup>, DPB<sup>+23</sup>, DNA<sup>+22</sup>, EBK<sup>+20</sup>, FIH<sup>+20</sup>, GB23, KDV<sup>+23</sup>, Lem20, LHGJ21, LSW<sup>+20b</sup>, MHG<sup>+23</sup>, MP23, MDIY23, PCJ<sup>+21</sup>, QRWT<sup>+22</sup>, RWMP<sup>+23</sup>, SJH20, SMW<sup>+21</sup>, SSM<sup>+22a</sup>, SSWM20, SEG21, SCB<sup>+20</sup>, SCT<sup>+21</sup>, THL<sup>+21</sup>, WLK<sup>+21</sup>, WRA<sup>+23</sup>, YWLY20].  
**oxygen-consuming** [SCB<sup>+20</sup>]. **Oxygen-controlled** [BKMY21].  
**Oxygen-deficient** [CBB<sup>+22</sup>, AHCJ<sup>+20</sup>, BYB<sup>+23</sup>, CKCB<sup>+23</sup>, DNA<sup>+22</sup>].  
**oxygenated** [LDS<sup>+20</sup>]. **Oxygenation** [BPL22, HBR<sup>+22</sup>]. **oxygenized** [HPNU20]. **oyster** [CCC<sup>+21</sup>, HLS<sup>+22</sup>, WSB<sup>+20</sup>]. **oysters** [HSP<sup>+20</sup>, MDWT<sup>+22</sup>].

**P** [LPMBR23, MLL<sup>+21</sup>]. **Pacific**

[ADLW22, CKH<sup>+21</sup>, ETMD23, HYPG<sup>+22</sup>, PDK<sup>+23</sup>, RPKC22, SSM21b, SAD<sup>+20</sup>, WRS<sup>+22</sup>, ZBNH<sup>+21</sup>, AHCJ<sup>+20</sup>, BSGA21, BYB<sup>+23</sup>, BCA<sup>+20</sup>, CJB<sup>+21</sup>, CBC<sup>+22</sup>, DWS<sup>+22</sup>, DNA<sup>+22</sup>, DFW<sup>+20</sup>, EBK<sup>+20</sup>, FDF<sup>+21</sup>, FSS<sup>+23</sup>, FIH<sup>+20</sup>, GFW<sup>+20</sup>, HDK<sup>+21</sup>, HOB<sup>+22</sup>, KMV<sup>+20</sup>, LLK<sup>+22</sup>, LWC<sup>+24</sup>, LSCL21, LNC<sup>+23</sup>, MZXY22, MY23, MMG<sup>+21</sup>, SMW<sup>+21</sup>, SWC<sup>+23</sup>, SOT<sup>+20</sup>, TKA21, WOK<sup>+21</sup>, XYZ<sup>+21</sup>, YAH<sup>+21</sup>, YWZZ20]. **Page** [Ano20a, Ano20b, Ano20c, Ano20d, Ano20e, Ano20f, Ano20g, Ano20h, Ano20i, Ano20j, Ano20k, Ano20l, Ano20m, Ano21e, Ano21f, Ano21g, Ano21h, Ano21i, Ano21j, Ano21k, Ano21l, Ano21m, Ano21n, Ano21o, Ano21p, Ano22a].  
**Paired** [BBGM20]. **paleoceanographic** [RWL<sup>+24</sup>]. **paleoclimate** [THT<sup>+20</sup>]. **paleolimnological** [BLS<sup>+22</sup>]. **Palmer** [NCC<sup>+21</sup>]. **Panulirus** [BFCC<sup>+21</sup>]. **paradigm** [GM22]. **Paradox** [GVF<sup>+23</sup>, BVL<sup>+23</sup>]. **parameters** [HZC<sup>+24</sup>, KTWGT20]. **parametrization** [PC21]. **parasite** [DMCW23, LEB21, ONH<sup>+20</sup>]. **parasites** [CML23, DMCW23, FWT<sup>+20</sup>].  
**parasitic** [KSN<sup>+21</sup>]. **parasitism** [BDMGH<sup>+23</sup>]. **Parent** [CSH21]. **Parental** [MDWT<sup>+22</sup>]. **particle** [AVS<sup>+22</sup>, BSGA21, CZS<sup>+22</sup>, CBN21, GEHD20, JSW<sup>+21</sup>, KSR20, KBvdD<sup>+20</sup>, RPA<sup>+22</sup>, WPY<sup>+20</sup>, WDS<sup>+23</sup>].  
**particle-associated** [BSGA21, WPY<sup>+20</sup>]. **particles** [CKH<sup>+21</sup>, CBN21, DBB<sup>+21</sup>, DLL20, JLS<sup>+20</sup>, LG21, SWC<sup>+23</sup>, SAD<sup>+20</sup>, WF22]. **particular** [GMI<sup>+21</sup>]. **Particulate** [JSL<sup>+23</sup>, CLD<sup>+23</sup>, FUUG<sup>+21</sup>, HCB<sup>+22</sup>, HCS<sup>+21</sup>, RMW<sup>+21</sup>, SOSN23, SOT<sup>+20</sup>, ZCZ<sup>+23</sup>, ZBNH<sup>+21</sup>]. **Partitioning** [BHA<sup>+22</sup>, HLKD23, SSS<sup>+24</sup>, SCB<sup>+20</sup>, TKA21]. **passing** [KX22]. **past** [MFM<sup>+21</sup>, SSL22, SLHL<sup>+22</sup>]. **pathway** [KP20, SWZ<sup>+23</sup>]. **pathways** [BSIdG23, BMGK22, MMG<sup>+21</sup>, ZSZ<sup>+21</sup>, vEMF<sup>+20</sup>]. **pattern** [ZZO<sup>+21</sup>].  
**Patterns** [BMB22, KRC23, WPY<sup>+20</sup>, BJS23a, BMR<sup>+21b</sup>, BMLV24, BFE<sup>+20</sup>, BRB<sup>+22</sup>, CGB<sup>+21</sup>, GCW<sup>+23</sup>, GBC<sup>+20</sup>, HEH<sup>+20</sup>, HCS<sup>+21</sup>, HABL<sup>+21</sup>, JREVB21, LABM20, LSS<sup>+24</sup>, MHdS<sup>+21</sup>, MZW<sup>+21</sup>, MGGRR<sup>+21</sup>, NGSS23, PATL<sup>+23</sup>, PLB<sup>+21</sup>, QMG21, Roy20, RBSB22, SVBT20, SPBK21, VMP<sup>+21</sup>, WWGP21, vLWV<sup>+20</sup>]. **pCO** [CGR22, CCB<sup>+20</sup>, EDC24, EWGP22, GPB<sup>+20</sup>, MDWT<sup>+22</sup>, NB20, QBJG21, RGW<sup>+23</sup>, TMS<sup>+21</sup>, VKB<sup>+22</sup>, WRHR22, WDG<sup>+21</sup>]. **Peak** [TMSL22]. **peaks** [SSH<sup>+22</sup>]. **Pearl** [YGD<sup>+21</sup>]. **peat** [BCWS23, KRM<sup>+20</sup>]. **peatland** [DdEM<sup>+23</sup>, FSM<sup>+21</sup>, KSH<sup>+23</sup>, TKW<sup>+23</sup>]. **peatland-rich** [TKW<sup>+23</sup>].

**peatlands** [FSM<sup>+</sup>21]. **Pelagic** [HBS<sup>+</sup>22, RSH<sup>+</sup>20, ST22, WRHR22, BZSF23, CJB<sup>+</sup>21, CHA<sup>+</sup>24, FWT<sup>+</sup>20, HGF<sup>+</sup>21, KPL<sup>+</sup>20, KLG<sup>+</sup>23, MBLA<sup>+</sup>21, MLT<sup>+</sup>21, NvBE<sup>+</sup>21, PVSP<sup>+</sup>22, VCT<sup>+</sup>23, VKK<sup>+</sup>21, VGSB23, VKGW22].  
**pellet** [SSM21b]. **pellets** [DMS<sup>+</sup>21, MLS<sup>+</sup>21]. **penguin** [CFC<sup>+</sup>20, NCC<sup>+</sup>21].  
**Peninsula**  
 [BBL<sup>+</sup>21, CFC<sup>+</sup>20, CMT<sup>+</sup>20, JWA<sub>v</sub>D<sup>+</sup>22, MHP<sup>+</sup>23, NGSS23, SGSF20].  
**peptidomic** [DNA<sup>+</sup>22]. **perennially** [LDS<sup>+</sup>20, SSM<sup>+</sup>21a]. **performance**  
 [BDMGH<sup>+</sup>23, BFW<sup>+</sup>22, DWR<sup>+</sup>23, MSB<sup>+</sup>20]. **peri** [SDS<sup>+</sup>23]. **peri-alpine**  
 [SDS<sup>+</sup>23]. **period** [ACA<sup>+</sup>22, XTL<sup>+</sup>20]. **Periodic** [NH23]. **periodically**  
 [RWS<sup>+</sup>22]. **periodicities** [LDB<sup>+</sup>21]. **Periphyton**  
 [FSM<sup>+</sup>21, VST<sup>+</sup>22, BHSL21, WK21]. **permafrost**  
 [BMLV24, FBP20, LLC21, RRHS<sup>+</sup>21, TKW<sup>+</sup>23]. **permanently** [CKCB<sup>+</sup>23].  
**permeable** [NKH<sup>+</sup>23]. **peroxide** [SGK<sup>+</sup>21]. **Persistence** [SBW21].  
**perspective** [BLS<sup>+</sup>22, FIM<sup>+</sup>22]. **perturbations** [TMS<sup>+</sup>21]. **Peruvian**  
 [THL<sup>+</sup>21]. **petrogenic** [BJK<sup>+</sup>21]. **pH** [CTM<sup>+</sup>21, EBW<sup>+</sup>20, GAS<sup>+</sup>21, HTLP23, JvKvT<sup>+</sup>20, JHS<sup>+</sup>21, JLR<sup>+</sup>22, KDV<sup>+</sup>23, MGP<sup>+</sup>21, MK21, MKD22, MNMJ<sup>+</sup>21, PCC<sup>+</sup>23, SCT<sup>+</sup>21, WDG<sup>+</sup>21, ZLU<sup>+</sup>20]. **Phaeodaria**  
 [MNM<sup>+</sup>21]. **Phaeophyceae** [SBB<sup>+</sup>21]. **phagocytosis** [LOW<sup>+</sup>20].  
**phagotrophy** [BH21]. **phase** [HLKD23, MLC<sup>+</sup>21]. **phases** [CB21a].  
**phenology** [CCA<sup>+</sup>21, CHA<sup>+</sup>24, DNB<sup>+</sup>20, LAD<sup>+</sup>22, MLP21b, vLWV<sup>+</sup>20].  
**phosphate** [MUGL20, SBW<sup>+</sup>20]. **phosphate-depleted** [SBW<sup>+</sup>20].  
**Phospholipid** [PKV20]. **phospholipids** [GVF<sup>+</sup>23]. **Phosphonate**  
 [SBW<sup>+</sup>20]. **Phosphorus** [DGW<sup>+</sup>21, AWGV20, AJMG21, AVS<sup>+</sup>22, BPIBN20, BRM<sup>+</sup>23, DCK<sup>+</sup>22, FPB<sup>+</sup>23, GVF<sup>+</sup>23, HSBC20, HPB<sup>+</sup>21, KPM<sup>+</sup>20, KTA<sup>+</sup>21, MDP<sup>+</sup>23, QFM<sup>+</sup>21, Roy20, RBR<sup>+</sup>23, SGA<sup>+</sup>22, SdBW<sup>+</sup>23, SML21b, YJ20, ZFQ<sup>+</sup>20, ZXZ<sup>+</sup>23]. **photic**  
 [LLL<sup>+</sup>23, QBJG21, WCC20]. **photo** [RRHS<sup>+</sup>21]. **photo-oxidation**  
 [RRHS<sup>+</sup>21]. **Photoacclimation** [MSD23, PFH21]. **photoautotrophic**  
 [CKCB<sup>+</sup>23, KFHS24]. **photochemical** [MGL22]. **Photodegradation**  
 [BKC20]. **photogrammetry** [ASL<sup>+</sup>24]. **photomineralization** [AKT<sup>+</sup>21].  
**photon** [MSD23]. **photophysiology** [ADLW22]. **photoprotection**  
 [ARPFGS23]. **photoreactive** [KLP23]. **photostable** [KLP23].  
**Photosynthesis** [GKW<sup>+</sup>20, GKW<sup>+</sup>21, GF21, RGW<sup>+</sup>23].  
**Photosynthesis-driven** [GKW<sup>+</sup>20, GKW<sup>+</sup>21]. **Photosynthetic**  
 [SGSF20, BRHS20, EHC<sup>+</sup>22, FIH<sup>+</sup>20]. **photosynthetically** [PC21].  
**phototrophic** [LABM20]. **phycobiliproteins** [WWFS21]. **phycosphere**  
 [JHSG<sup>+</sup>24]. **phyllosomata** [BFCC<sup>+</sup>21]. **Physical** [MBB<sup>+</sup>20, BGM<sup>+</sup>22, HMB<sup>+</sup>20, KTH<sup>+</sup>21, KBL<sup>+</sup>20, LZG21, QRWT<sup>+</sup>22, SORGC<sup>+</sup>21]. **physico**  
 [BC20]. **physicochemical** [FWvA<sup>+</sup>21]. **physicochemistry** [BCTH20].  
**Physiological** [BHG<sup>+</sup>24, CT23, HDS<sup>+</sup>20, Wei24, BTT23, HDK<sup>+</sup>21, KTWGT20, WRHR22, dJGCS23]. **physiology** [MGC<sup>+</sup>20]. **phytodetritus**  
 [LMS23]. **Phytoplankton** [HBG<sup>+</sup>22, PBC21, YAE<sup>+</sup>23, AVJ<sup>+</sup>24, ARPFGS23, AFK<sup>+</sup>22, BMG<sup>+</sup>23, BHG<sup>+</sup>24, BTT23, BMA<sup>+</sup>20, BHSL21, BDE<sup>+</sup>22, BK20, BBL<sup>+</sup>21, BAHH<sup>+</sup>20, CAV<sup>+</sup>22, CFC<sup>+</sup>20, CSM<sup>+</sup>23, CBD<sup>+</sup>23, FBR<sup>+</sup>23,

FBRG23, FDHS20, FWT<sup>+20</sup>, FBV23, FPB<sup>+23</sup>, GVF<sup>+23</sup>, GCW<sup>+23</sup>, GMS21, GK22, GZX<sup>+22</sup>, GAS<sup>+23</sup>, HLH<sup>+23</sup>, HANW21, HDK<sup>+21</sup>, HDD<sup>+22</sup>, HNS21, HZS21, HKM<sup>+20</sup>, HPP<sup>+21</sup>, HS21, IJSC20, IYW<sup>+22</sup>, JWA<sub>vD</sub><sup>+22</sup>, KRB<sup>+21</sup>, KBL<sup>+20</sup>, LHS<sup>+20</sup>, LNC<sup>+23</sup>, LVZ21, LLBC20, LSDA21, MXL<sup>+21</sup>, MUGL20, MHD<sup>+22</sup>, MAG<sup>+22</sup>, MSJ21, NGSS23, PKKS20, PCC<sup>+23</sup>, QS21, QBJG21, SVC<sup>+22</sup>, SSH<sup>+22</sup>, SJJ<sup>+21</sup>, SGM<sup>+22</sup>, SSM<sup>+22a</sup>, SMD21, SGS22, SSB<sup>+22</sup>, TJW<sup>+22</sup>, VKB<sup>+22</sup>, VWR<sup>+23</sup>, WCZ<sup>+20</sup>, WCC20, WRA<sup>+23</sup>, YML<sup>+21</sup>, ZZHZ23, ZLW21b, vLWV<sup>+20</sup>, vdPAV<sup>+20</sup>, vdPMF<sup>+21</sup>].

**phytoplankton-dominated** [WCZ<sup>+20</sup>]. **phytoplankton-related** [TJW<sup>+22</sup>]. **Phytoplanktonic** [GRJ<sup>+22</sup>]. **Pico** [KPS21]. **Pico-** [KPS21]. **picocyanobacteria** [AHCJ<sup>+20</sup>, CBT<sup>+21</sup>]. **picoeukaryote** [RPKC22]. **picoeukaryotes** [EHC<sup>+22</sup>]. **picophytoplankton** [FM21, GSP<sup>+23</sup>]. **picoplankton** [BDL<sup>+21</sup>, DWW<sup>+21</sup>]. **pigment** [ARPFGS23, CSM<sup>+23</sup>]. **pigments** [CTF<sup>+21</sup>]. **Pine** [LCHB22]. **pinnacle** [GCMJ23]. **Placopecten** [CGR22]. **plain** [LTH21]. **Plains** [ETG21]. **Planktivorous** [LDB<sup>+20</sup>]. **Plankton** [FUUG<sup>+21</sup>, SBV<sup>+21</sup>, EG20, FGO<sup>+20</sup>, JSW<sup>+21</sup>, KKA22, OAM<sup>+22</sup>, PSNS22, SGL<sup>+23</sup>, SCM22, THS21, YWLY20]. **Planktonic** [IMB<sup>+22</sup>, ALH<sup>+21</sup>, CML23, EPR<sup>+24</sup>, FIM<sup>+22</sup>, Gil22, GSD<sup>+23</sup>, LLMM<sup>+23</sup>, LEB21, MMF<sup>+21</sup>, MDP<sup>+23</sup>, Wei24]. **Planktothrix** [SDS<sup>+23</sup>]. **planning** [YAP<sup>+22</sup>]. **Plant** [CZH<sup>+21</sup>, VJS<sup>+20</sup>, KHK<sup>+22</sup>, LCS<sup>+20</sup>, WHZ<sup>+21</sup>]. **Plant-mediated** [VJS<sup>+20</sup>]. **plants** [ZN20, ZLN21]. **plastic** [VGvdB<sup>+21</sup>].

**Plasticity**  
[LES<sup>+21</sup>, BCFI<sup>+22</sup>, BOC<sup>+21</sup>, NDP<sup>+24</sup>, PMF<sup>+21</sup>, RFB<sup>+22</sup>, WWGP21].

**plate** [JYA21]. **Plateau** [DLC<sup>+22</sup>, DAB<sup>+21</sup>, XTJW21]. **Plum** [LVHK20]. **plume** [CGC<sup>+21</sup>, SLZ<sup>+21b</sup>]. **plumes** [dCLO<sup>+23</sup>]. **point** [CBN21]. **points** [CBPNA22]. **polar**  
[KMM<sup>+22</sup>, KGG<sup>+23</sup>, LMSN23, MLG<sup>+20</sup>, STB22, vdPAV<sup>+20</sup>]. **polarized** [CZS<sup>+22</sup>]. **poleward** [CJB<sup>+21</sup>]. **pollen** [LCHB22]. **Pollicipes** [FJP<sup>+21</sup>].

**polygonal** [PLB<sup>+21</sup>]. **polymictic** [TKS<sup>+20</sup>]. **Pond**  
[VJH<sup>+22</sup>, DGTW21, QMG21]. **ponds**  
[FBP20, FW21, GCEM<sup>+23</sup>, LMM<sup>+21</sup>, PWS<sup>+20</sup>, PLB<sup>+21</sup>, RHA<sup>+23</sup>]. **pool** [CLC<sup>+22</sup>, KPNJ23]. **pools** [BHSG<sup>+20</sup>, LLTT<sup>+24</sup>]. **poppei** [MSGW<sup>+20</sup>].

**populated** [HPB<sup>+21</sup>]. **Population** [CÖL<sup>+20</sup>, CHA<sup>+24</sup>, DAB<sup>+21</sup>, FRRG<sup>+21</sup>, HPF<sup>+23</sup>, KOR<sup>+20</sup>, LNC<sup>+23</sup>, MVP<sup>+20</sup>, MSGW<sup>+20</sup>, WRMP22, ZLG<sup>+23</sup>].

**populations** [ASH<sup>+20</sup>, DMCW23, MUGL20, RBL<sup>+20</sup>, ZJ22a]. **Pore** [TEK<sup>+21</sup>, CSC<sup>+21</sup>]. **pore-water** [CSC<sup>+21</sup>]. **porewater** [KDZ<sup>+24</sup>, RST<sup>+21</sup>].

**porewaters** [DKPS23]. **Posidonia** [AAC<sup>+21</sup>, CB21b]. **position** [GLN<sup>+21</sup>, TRS<sup>+20</sup>, VGSB23]. **possess** [CCG<sup>+22</sup>]. **Potential** [DCJB22, DWW<sup>+21</sup>, HDK<sup>+21</sup>, HGMK22, XLN21, BSB<sup>+20</sup>, CYPRG<sup>+23</sup>, DAB<sup>+21</sup>, MMLPRHCG22, PWS<sup>+20</sup>, RvHF<sup>+20</sup>, SSEO21, TGE<sup>+21</sup>, VVMJ23, WM20, XWL<sup>+21</sup>, ZPK<sup>+22</sup>, ZLL<sup>+24</sup>]. **potentials** [RLL<sup>+21</sup>]. **Powell** [DSY20]. **powered** [MXL<sup>+21</sup>]. **Prairie** [RVS<sup>+22</sup>]. **precariousness** [SHBA22]. **precipitation**  
[AFH<sup>+22</sup>, DSY20, HM20, KAP<sup>+20</sup>, LN21, SSCE20]. **predation**



[BBM21, LAFV23, LWS<sup>+</sup>22, LDB<sup>+</sup>20, OFM<sup>+</sup>21, OLR<sup>+</sup>23, PSNS22, ZLG<sup>+</sup>23].  
**Predator** [BMGK22, DCJB22, DFW<sup>+</sup>20, LEB21, LMSN23, MVP<sup>+</sup>20, MWV22, MPW<sup>+</sup>23]. **predators** [RS20]. **predatory** [DWR<sup>+</sup>23]. **predict** [FMT<sup>+</sup>20, GMI<sup>+</sup>21]. **predictability** [KKA22]. **Predicting** [BCTH20, BMR<sup>+</sup>21b, LM24, RPA<sup>+</sup>22, AVJ<sup>+</sup>24, TRS<sup>+</sup>20]. **prediction** [MSJ21]. **predictors** [MTP<sup>+</sup>23]. **Preferential** [CM21]. **Presence** [LBJS22, LM24, MK20]. **present** [EWGP22]. **present-day** [EWGP22].  
**Preservation** [ZJW<sup>+</sup>22]. **pressure** [BBM21, DvOH<sup>+</sup>20, MSD23, SEG21, WBB<sup>+</sup>21]. **Prevalence** [KGG<sup>+</sup>23, DMCW23, RBL<sup>+</sup>20]. **previous** [CTM<sup>+</sup>21]. **previously** [KKP<sup>+</sup>21]. **prey** [DFW<sup>+</sup>20, HMBB21, LEB21, LMSN23, RTK23, SYMF21, WO21]. **primacy** [HS21]. **primary** [FNB<sup>+</sup>23, FSH<sup>+</sup>23, HEH<sup>+</sup>20, KTA<sup>+</sup>21, KBSA21, KPG<sup>+</sup>23, KVKS22, LD22, LSDA21, OLFH21, RHP<sup>+</sup>23, SB20, SSM<sup>+</sup>22a]. **Prince** [SBV<sup>+</sup>21]. **priority** [GGLH<sup>+</sup>22]. **pristine** [BPG<sup>+</sup>22, DBM<sup>+</sup>23, EJM<sup>+</sup>23, YvdHC<sup>+</sup>20]. **process** [ZZL<sup>+</sup>21]. **processes** [Ano21a, BD22, CM20b, GSG<sup>+</sup>17, HP20, MZXY22, NH22, PATL<sup>+</sup>23, QRWT<sup>+</sup>22, SSP<sup>+</sup>20, TJW<sup>+</sup>22, WPY<sup>+</sup>20]. **processing** [AVS<sup>+</sup>22, BND<sup>+</sup>23, DBB<sup>+</sup>21, HHK<sup>+</sup>22, LMM<sup>+</sup>21, ORE20].  
**Prochlorococcus** [LGI<sup>+</sup>20, LES<sup>+</sup>21, LSCL21, RRAO<sup>+</sup>21, SHZ<sup>+</sup>21, TKA21].  
**produce** [WPO<sup>+</sup>22]. **producers** [HEH<sup>+</sup>20, KVKS22]. **producing** [THT<sup>+</sup>20]. **Production** [CKH<sup>+</sup>21, LMS23, BMA<sup>+</sup>20, BBH<sup>+</sup>20, BGG<sup>+</sup>20, BD22, BH21, BV21, BBCA<sup>+</sup>21, CWF<sup>+</sup>22, CCFF21, CDA<sup>+</sup>20, DBFC24, FSM<sup>+</sup>21, FNB<sup>+</sup>23, FSS<sup>+</sup>23, FSH<sup>+</sup>23, FIH<sup>+</sup>20, GE22, GMI<sup>+</sup>21, GKW<sup>+</sup>20, GKW<sup>+</sup>21, HGMK22, HNS21, HBR<sup>+</sup>22, KTA<sup>+</sup>21, KBSA21, KSI24, KPG<sup>+</sup>23, KBvdD<sup>+</sup>20, KTWGT20, LLL<sup>+</sup>23, LEK<sup>+</sup>22, LMP<sup>+</sup>20, LDS<sup>+</sup>20, LTLH22, LDB<sup>+</sup>21, LSDA21, MCH<sup>+</sup>22, MLT<sup>+</sup>21, OLFH21, PDK<sup>+</sup>23, RHP<sup>+</sup>23, SPKM22, SJJ<sup>+</sup>21, SPLJA<sup>+</sup>20, SSM<sup>+</sup>22a, SSM21b, SMD21, TTC<sup>+</sup>22, TZF<sup>+</sup>22, WOT<sup>+</sup>23, YWZZ20]. **productive** [FBRG23, SGGB21].  
**productivity** [ASH<sup>+</sup>20, CGL<sup>+</sup>21, GLAHH<sup>+</sup>23, MCH<sup>+</sup>21, MGRR<sup>+</sup>21, SBV<sup>+</sup>21, WLS21].  
**products** [LSW<sup>+</sup>20a]. **profiles** [DWS<sup>+</sup>22, SJH20]. **profiling** [FIH<sup>+</sup>20].  
**proglacial** [MKP<sup>+</sup>23]. **progressive** [SVBT20]. **projections** [CCA<sup>+</sup>21].  
**prokaryotes** [BMG<sup>+</sup>23, CKCB<sup>+</sup>23, DWW<sup>+</sup>21, GLAHH<sup>+</sup>23, LBBM21].  
**prokaryotic** [BAD<sup>+</sup>21, CDA<sup>+</sup>20, DVL<sup>+</sup>23, GE22, SML<sup>+</sup>21a, SORGC<sup>+</sup>21, SSS<sup>+</sup>24].  
**Prolific** [ETMD23]. **prolonged** [LLC21, ZZHZ23]. **prominent** [YG23].  
**promote** [CBB<sup>+</sup>22, DFJ22, EFC<sup>+</sup>23, KRB<sup>+</sup>21]. **promoted** [ZJW<sup>+</sup>22].  
**promotes** [LTJ<sup>+</sup>20, vGDH<sup>+</sup>21]. **promoting** [GGS<sup>+</sup>21]. **prone** [FLH<sup>+</sup>23].  
**pronounced** [MKD22]. **properties** [BMG<sup>+</sup>23, BHG<sup>+</sup>24, CBD<sup>+</sup>23, LD22, MRD<sup>+</sup>21, PSK21, SJR21, SB20, XSZ<sup>+</sup>21]. **Prorocentrum** [LZG21]. **protect** [RD23]. **Protein** [DNA<sup>+</sup>22, MK20, PYY<sup>+</sup>20]. **protein-coupled** [MK20].  
**protist** [MNM<sup>+</sup>21, PYM<sup>+</sup>20]. **protistan** [SDSGR21]. **protists** [BO20, SWC<sup>+</sup>23]. **provide** [BVM<sup>+</sup>20, SSA<sup>+</sup>23]. **provinces**

[BGAD<sup>+22</sup>, SSH<sup>+22</sup>]. **proxies** [FSH<sup>+23</sup>, RWL<sup>+24</sup>]. **proximity** [MKP<sup>+23</sup>]. **proxy** [LPO<sup>+20</sup>]. **pseudofecal** [WSB<sup>+20</sup>]. **pseudogonyaulax** [BH21]. **pseudoharengus** [DFJ22]. **Psychrophilic** [SJR21]. **pueruli** [BFCC<sup>+21</sup>]. **pulex** [YWZ<sup>+21</sup>]. **pulsatile** [WSB<sup>+20</sup>]. **pulse** [KHHZ20]. **Pulsed** [WBB<sup>+21</sup>]. **Pulses** [NKH<sup>+23</sup>, BRCO21]. **pump** [CSC<sup>+21</sup>, DMS<sup>+21</sup>, DLL20, FWDY20, GBB<sup>+21</sup>, LG21, PFH21, PVSP<sup>+22</sup>, PJRV23]. **pumps** [GM22]. **purely** [LD22, SB22]. **putative** [CLD<sup>+23</sup>]. **pyriferia** [SBB<sup>+21</sup>].

**quahog** [MURK20]. **qualitative** [WMTJW22]. **quality** [ABS<sup>+21</sup>, DLC<sup>+22</sup>, DKPS23, FRRG<sup>+21</sup>, HSB<sup>+20</sup>, HZS21, LZM<sup>+21</sup>, MFM<sup>+21</sup>, MHL<sup>+20</sup>, PHB<sup>+22</sup>, PWS<sup>+20</sup>, RvHF<sup>+20</sup>, SSS<sup>+24</sup>, TSX<sup>+23</sup>, TPTS23, TCS21, VKK<sup>+21</sup>]. **Quantification** [CWF<sup>+22</sup>, ZR23]. **Quantifying** [CCFF21, LVZ21]. **Quantitative** [LN21]. **quantity** [ABS<sup>+21</sup>, BBH<sup>+20</sup>, DLC<sup>+22</sup>]. **quantum** [RKBT<sup>+23</sup>]. **Quasi** [LDB<sup>+21</sup>]. **Quasi-decadal** [LDB<sup>+21</sup>]. **Queen** [DLDF21]. **quenching** [CGB<sup>+21</sup>].

**r}** [CLGH23]. **Ra** [LvBS<sup>+22</sup>]. **radiata** [BRHS20, BS20]. **radiation** [PC21, YG23, ZFQ<sup>+20</sup>, vdPMF<sup>+21</sup>]. **radiatively** [AHF<sup>+22</sup>]. **radiocarbon** [HGA24, IFU<sup>+20</sup>]. **radiocesium** [TNK<sup>+22</sup>]. **Radiolaria** [MNM<sup>+21</sup>]. **radiolarians** [IKN<sup>+21</sup>]. **radium** [RST<sup>+21</sup>]. **radon** [ACW<sup>+22</sup>, RST<sup>+21</sup>]. **rain** [DBFC24]. **rainforest** [FBJ<sup>+23</sup>, SOT<sup>+20</sup>]. **range** [CJB<sup>+21</sup>, CEE<sup>+22</sup>, PYM<sup>+20</sup>]. **ranges** [LCS<sup>+20</sup>]. **Rapid** [CBC<sup>+22</sup>, PFH21, SLZ<sup>+21b</sup>, THL<sup>+21</sup>, BVGQN22, YWZ<sup>+21</sup>, ZLW<sup>+21a</sup>]. **Rapidly** [ZZCD23, DKBG21, LGQ<sup>+21</sup>]. **rate** [CGR22, HZM<sup>+21</sup>, LSL<sup>+20</sup>, LCZ<sup>+21</sup>, QBJG21]. **rates** [BAG<sup>+24</sup>, BWSW24, BVM<sup>+20</sup>, CWF<sup>+22</sup>, DGTW21, Edm21b, GR24, HMP<sup>+21</sup>, LLMM<sup>+23</sup>, LDGB<sup>+24</sup>, MSG<sup>+22</sup>, OLFH21, PKV20, RLP<sup>+20</sup>, RRAO<sup>+21</sup>, SBL<sup>+21</sup>, SSWM20, SMD21, TION23, TBH<sup>+22</sup>, ZQB<sup>+21</sup>, ZWM22]. **ratio** [FBK<sup>+22</sup>]. **ratios** [BV21, DWS<sup>+22</sup>, HMBB21, KMV<sup>+20</sup>, MDP<sup>+23</sup>, MRT<sup>+24</sup>]. **ray** [IKN<sup>+21</sup>]. **re** [SDS<sup>+23</sup>, WZCK20]. **re-examination** [WZCK20]. **re-oligotrophication** [SDS<sup>+23</sup>]. **reaches** [PGB24]. **reactivity** [GMI<sup>+21</sup>, MGL22]. **reactor** [CBF<sup>+23</sup>]. **really** [FPBG<sup>+22</sup>]. **realm** [FUUG<sup>+21</sup>, WKRL<sup>+23</sup>]. **receptor** [MK20]. **receptor-based** [MK20]. **Reciprocal** [FW21]. **recirculating** [BKMY21]. **Reconciling** [MHG<sup>+23</sup>]. **reconfiguration** [ZN20]. **Reconstructing** [KBSA21]. **reconstructions** [THT<sup>+20</sup>]. **record** [WRS<sup>+22</sup>, WOMWR20]. **recovering** [RFB<sup>+22</sup>]. **Recovery** [RWS<sup>+22</sup>, vHLV<sup>+20</sup>, BPG<sup>+22</sup>, DFJ22, GRJ20, GPB<sup>+20</sup>, KDW<sup>+23</sup>, MAP<sup>+22</sup>, RVS<sup>+22</sup>, SHBA22, WRWPG19, WPO<sup>+22</sup>, ZvBZ<sup>+20</sup>, Ano21c]. **Recruitment** [MKBSK19, Edm21a, FJP<sup>+21</sup>, OSR20]. **recurrence** [FR23]. **Recurrent** [SH22]. **Recycling** [HYPG<sup>+22</sup>, SKA<sup>+24</sup>]. **red** [CJB<sup>+21</sup>, EFP<sup>+21</sup>]. **redox** [CKCB<sup>+23</sup>, EBK<sup>+20</sup>, SGSD<sup>+22</sup>, SGK<sup>+21</sup>]. **redox-stratified** [CKCB<sup>+23</sup>]. **redoxcline** [HPNU20]. **reduce** [XWL<sup>+21</sup>]. **Reduced** [KFHS24, FNB<sup>+23</sup>, JOC<sup>+20</sup>, KDZ<sup>+24</sup>, ZXZ<sup>+23</sup>, DMCW23].

**reduces** [ALH<sup>+</sup>21, BRM<sup>+</sup>23, DSY20, OFM<sup>+</sup>21, QBJG21, SSM<sup>+</sup>22a].  
**reducing** [SJR21]. **reduction** [CEW<sup>+</sup>21, DFJ22, KP20, RWS<sup>+</sup>22, SSM<sup>+</sup>21a, THL<sup>+</sup>21, dJGCS23].  
**reduction-dependent** [KP20]. **reductions** [FBV23, TBH<sup>+</sup>22]. **reef** [BCFI<sup>+</sup>22, BBKA<sup>+</sup>21, CDW<sup>+</sup>24, CBC<sup>+</sup>22, Edm21b, EDC24, FKN21, GCMJ23, GTKW<sup>+</sup>20, GLB<sup>+</sup>22, HPCH24, HLS<sup>+</sup>22, KDW<sup>+</sup>23, LMS23, LBG<sup>+</sup>22, MCH<sup>+</sup>22, MSG<sup>+</sup>22, MHMML<sup>+</sup>22, MDIY23, SWZ<sup>+</sup>23, SSCE20].  
**reefs** [FPBG<sup>+</sup>22, GCMJ23, OLFH21, RMH<sup>+</sup>22, SPKM22, VVMJ23, dOKC<sup>+</sup>21].  
**reestablishes** [AMO20]. **Reference** [TMKB<sup>+</sup>22]. **Refining** [FSH<sup>+</sup>23].  
**reflect** [HHMH22]. **reflectance** [LSW<sup>+</sup>20a]. **reflects** [CVF<sup>+</sup>20]. **refractory** [LLTT<sup>+</sup>24]. **refuges** [YAH<sup>+</sup>21]. **regardless** [CTM<sup>+</sup>21]. **Regeneration** [HKM<sup>+</sup>20]. **regime** [BTK<sup>+</sup>21, DMC<sup>+</sup>22, MWV22, RNW<sup>+</sup>23, SPHH22, TMKB<sup>+</sup>22]. **regimes** [BHA<sup>+</sup>22, CGGC<sup>+</sup>21, CGL<sup>+</sup>21, LGI<sup>+</sup>20, MCH<sup>+</sup>21, SSL22, VCBB20, WCZ<sup>+</sup>20]. **Region** [LDGB<sup>+</sup>24, FUUG<sup>+</sup>21, KLO23, MFM<sup>+</sup>21].  
**Region-specific** [LDGB<sup>+</sup>24]. **Regional** [LRRP20, GRJ20, HDK<sup>+</sup>21, KSF<sup>+</sup>23, RTM<sup>+</sup>20, SMKS22]. **regional-scale** [SMKS22]. **regionally** [SJJ<sup>+</sup>21]. **regions** [ASH<sup>+</sup>20, NCC<sup>+</sup>21, SML<sup>+</sup>21a].  
**regularity** [SGM<sup>+</sup>22]. **regulates** [BGM<sup>+</sup>21, JHSG<sup>+</sup>24, MUGL20, THVJ23, YPF<sup>+</sup>23]. **regulating** [SOSN23].  
**regulation** [BAHH<sup>+</sup>20, DK20, GLN<sup>+</sup>21, HP20]. **regulatory** [TMKB<sup>+</sup>22].  
**related** [BSGA21, LDB<sup>+</sup>21, PYY<sup>+</sup>20, TJW<sup>+</sup>22]. **relation** [DNB<sup>+</sup>20, WRC<sup>+</sup>21]. **relationship** [BCA<sup>+</sup>20, FPBG<sup>+</sup>22, KMV<sup>+</sup>20].  
**Relationships** [QFM<sup>+</sup>21, BMA<sup>+</sup>20, BM22, GGHBS<sup>+</sup>20, KPL<sup>+</sup>20, LEB21, MNM<sup>+</sup>21, QS21, SDL22, SZA<sup>+</sup>21, TRS<sup>+</sup>20, YJ20, ZZWL22]. **Relative** [LLBC20, SSH<sup>+</sup>22, GCW<sup>+</sup>23, QMG21]. **relatively** [GVF<sup>+</sup>23]. **relaxation** [REF<sup>+</sup>21]. **release** [AJMG21, BMCS23, CLGH23, HP20, KPM<sup>+</sup>20, KRM<sup>+</sup>20, LHS<sup>+</sup>21, RS20, XWL<sup>+</sup>21]. **Relevance** [SPBK21, CPB<sup>+</sup>21].  
**reliable** [PPB<sup>+</sup>21]. **relieves** [DCK<sup>+</sup>22]. **Remarkably** [EFP<sup>+</sup>21]. **remote** [LSW<sup>+</sup>20a, VVMJ23]. **Removal** [MLS<sup>+</sup>21, SGL<sup>+</sup>23]. **reoxidation** [ETMD23]. **reoxygenation** [RWS<sup>+</sup>22]. **repeated** [CBT<sup>+</sup>21]. **replacement** [KMV<sup>+</sup>20]. **replete** [CM21]. **Reply** [CSH21, MBD<sup>+</sup>23, SB22]. **represent** [HSD<sup>+</sup>20]. **Reproducing** [TVB<sup>+</sup>21]. **reproduction** [MMKWZ22, MGP<sup>+</sup>21].  
**reproductive** [BRB<sup>+</sup>22]. **require** [WRA<sup>+</sup>23]. **requires** [KHCG<sup>+</sup>22].  
**Research** [MKBSK19]. **reservoir** [AWGV20, BBH<sup>+</sup>20, CB21a, ILPL20, LHD<sup>+</sup>20, PBGGRB21]. **reservoirs** [BJG<sup>+</sup>22, CCY<sup>+</sup>21, CM20a, LPMBR23]. **residence** [EAF<sup>+</sup>22, LvBS<sup>+</sup>22, RCMA21, SDL22]. **resident** [LBSJ22]. **Resilience** [CAV<sup>+</sup>22, BLS<sup>+</sup>22, BBMD20, DP22, GGS<sup>+</sup>21, MHD<sup>+</sup>22, RMH<sup>+</sup>22, RBD22, RPKC22, SPHH22, TKM<sup>+</sup>22, ZvBZ<sup>+</sup>20, dSNIB22]. **resilient** [WCH<sup>+</sup>21].  
**resistance** [TKM<sup>+</sup>22, YvdHC<sup>+</sup>20, vHHP<sup>+</sup>21]. **resolution** [BCWS23, PHB<sup>+</sup>22, ZZO<sup>+</sup>21]. **resolve** [GSD<sup>+</sup>23]. **resolved** [GNO22].  
**Resolving** [BPIBN20, SMW<sup>+</sup>21]. **Resource**

[LHS<sup>+</sup>20, FBJ<sup>+</sup>23, FDHS20, GZX<sup>+</sup>22, MHL<sup>+</sup>20, VCT<sup>+</sup>23]. **respect** [LBvE23]. **Respiration** [BHA<sup>+</sup>22, SEG21, BWSW24, BV21, BVM<sup>+</sup>20, CGR22, FUUG<sup>+</sup>21, HCS<sup>+</sup>21, MHG<sup>+</sup>23, MSG<sup>+</sup>22, NKH<sup>+</sup>23, PBC21, RHP<sup>+</sup>23, SMCS23, SDB<sup>+</sup>23, SSM<sup>+</sup>22a, WMRL22]. **respired** [HGA24]. **respond** [BWSW24, CTP21]. **responding** [MSD23]. **Response** [AAC<sup>+</sup>21, CZK<sup>+</sup>23, FBR<sup>+</sup>23, LWC<sup>+</sup>24, MLG<sup>+</sup>20, PRS<sup>+</sup>20, SLZ<sup>+</sup>21a, TSX<sup>+</sup>23, YJB<sup>+</sup>20, ABC<sup>+</sup>21, BTT23, BJK<sup>+</sup>21, BRHS20, BK20, BPG<sup>+</sup>22, CT23, CMB<sup>+</sup>21, CBT<sup>+</sup>21, DCF<sup>+</sup>22, DKBG21, GRJ<sup>+</sup>22, GK22, HXL<sup>+</sup>21, HLS<sup>+</sup>22, ILPL20, JHS<sup>+</sup>21, JLR<sup>+</sup>22, KX22, LVHK20, LCM<sup>+</sup>22, LTH21, MAP<sup>+</sup>22, PC21, SGL<sup>+</sup>23, SDS<sup>+</sup>23, TNK<sup>+</sup>22, WWFS21, XYL<sup>+</sup>23, YAE<sup>+</sup>23, ZZWL22, ZSZ<sup>+</sup>21, dSNIB22]. **Responses** [MXL<sup>+</sup>21, MY23, CHAA21, DKW<sup>+</sup>21, FM21, GFG<sup>+</sup>22, HDS<sup>+</sup>20, JWA<sup>v</sup>D<sup>+</sup>22, KL22, LLSQ24, MLP<sup>+</sup>21a, MHD<sup>+</sup>22, MAG<sup>+</sup>22, NEB<sup>+</sup>22, Phi21, PW22, RMH<sup>+</sup>22, TBH<sup>+</sup>22, TMS<sup>+</sup>21, VG<sup>v</sup>dB<sup>+</sup>21, WPO<sup>+</sup>22, ZZHZ23, ZJ22a, ZJ22b, ZLW21b]. **Resting** [ZLG<sup>+</sup>23]. **restoration** [AMO20, HLS<sup>+</sup>22, LAB<sup>+</sup>22]. **restructuring** [HFL<sup>+</sup>20]. **result** [CLC<sup>+</sup>22]. **Results** [MKBSK19]. **Resurrection** [ZJ22b]. **resuspension** [CGD22, MDBI20, MCS<sup>+</sup>23]. **retain** [LDG<sup>+</sup>21]. **retention** [GFG<sup>+</sup>22, GPDA<sup>+</sup>20, SDL22, VMT<sup>+</sup>20]. **Rethinking** [YJ20]. **retreat** [BJK<sup>+</sup>21, NB23, SJJ<sup>+</sup>21]. **retrieval** [SSB<sup>+</sup>22]. **retrieved** [RCS<sup>+</sup>20]. **Return** [FHMK20, MLG<sup>+</sup>20]. **reveal** [BRB<sup>+</sup>22, CLW<sup>+</sup>21, DHNH22, HS21, LABM20, MVP<sup>+</sup>20, MSB<sup>+</sup>20, PMF<sup>+</sup>21, RPKC22, WWGP21, ZSZ<sup>+</sup>21]. **revealed** [BO20, DLL20, EST<sup>+</sup>24, GLN<sup>+</sup>20, KAC<sup>+</sup>23, LVDM22, LGI<sup>+</sup>20, Lem20, MT23, MCYR20, RWMP<sup>+</sup>23, SIP21, ST22, TION23, VLP<sup>+</sup>21, ZSD<sup>+</sup>20]. **reveals** [ASL<sup>+</sup>24, BRCO21, BKMY21, CGGC<sup>+</sup>21, FR23, HPF<sup>+</sup>23, HHK<sup>+</sup>22, MKD22, Roy20, TRS<sup>+</sup>20, VMP<sup>+</sup>21, ZJ22b]. **reversals** [LDG<sup>+</sup>21]. **reverse** [ZJ22a]. **review** [BR22, CBPNA22, MA21, SHPW22]. **Rhizaria** [BO20, IKN<sup>+</sup>21, LLMM<sup>+</sup>23, MNM<sup>+</sup>21, MLT<sup>+</sup>21]. **rhizosphere** [EJM<sup>+</sup>23, HZZ<sup>+</sup>20]. **ria** [NSK<sup>+</sup>21]. **rich** [LPO<sup>+</sup>20, LAMG<sup>+</sup>22, TKW<sup>+</sup>23]. **richness** [RBL<sup>+</sup>20]. **Riemann** [MBD<sup>+</sup>23]. **riparian** [FW21]. **Rise** [MWV22, FNB<sup>+</sup>23, LVHK20, LRM21, QMG21, YLT<sup>+</sup>20, ZvBZ<sup>+</sup>20]. **rising** [IOS24, NB23]. **risk** [LAFV23, Roy20, ZLG<sup>+</sup>23]. **River** [DSY20, LTH21, MGI<sup>+</sup>22, YGD<sup>+</sup>21, ZPK<sup>+</sup>22, AWB<sup>+</sup>23, BMLV24, CBHB21, CCY<sup>+</sup>21, CGC<sup>+</sup>21, CHS<sup>+</sup>20, CVF<sup>+</sup>20, DMC<sup>+</sup>22, DBM<sup>+</sup>23, DKPS23, EST<sup>+</sup>24, FXD<sup>+</sup>22, IOS24, KHHZ20, LHMR23, MGL22, MHL<sup>+</sup>20, QS21, RHP<sup>+</sup>23, SML21b, SLZ<sup>+</sup>21b, TUR<sup>+</sup>20, WPY<sup>+</sup>20, ZYZ<sup>+</sup>21, CM21, GBHF21, LXC<sup>+</sup>21b, PCN22, Roy20, SMNT22, TMSL22]. **river-bay** [WPY<sup>+</sup>20]. **river-dominated** [DKPS23, QS21]. **river-influenced** [FXD<sup>+</sup>22]. **Riverine** [IYW<sup>+</sup>22, HLKD23, KRB<sup>+</sup>21, PBGGRB21, RMW<sup>+</sup>21, RD23, YGD<sup>+</sup>21]. **rivers** [AFH<sup>+</sup>21, BHA<sup>+</sup>22, GEHD20, MBH<sup>+</sup>23, MA21, NSK<sup>+</sup>21, PHB<sup>+</sup>22, RHP<sup>+</sup>23, SMG<sup>+</sup>22, ZQB<sup>+</sup>21]. **rK}y** [CLGH23]. **Rn** [ACW<sup>+</sup>22]. **robotic** [GLN<sup>+</sup>20]. **rock** [KPNJ23, ZPK<sup>+</sup>22]. **rockweeds** [DP22]. **rocky** [DP22, GTKW<sup>+</sup>20, VMT<sup>+</sup>24]. **Role** [AVS<sup>+</sup>22, GGS<sup>+</sup>21, GRJ20, LNC<sup>+</sup>23, MDBI20, MLT<sup>+</sup>21, YLT<sup>+</sup>20, AKT<sup>+</sup>21, DCJB22, EBW<sup>+</sup>20, EBK<sup>+</sup>20, HLPT20, HGMK22, HMB<sup>+</sup>22, KRB<sup>+</sup>21,

KdED<sup>+20</sup>, KNG<sup>+23</sup>, LLMM<sup>+23</sup>, LZG21, MEQBV20, SPLJA<sup>+20</sup>, TGE<sup>+21</sup>, WLK<sup>+21</sup>, YGD<sup>+21</sup>, ZSZ<sup>+22</sup>, ZXZ<sup>+23</sup>, dOKC<sup>+21</sup>]. **roles** [CSB22, HDK<sup>+21</sup>]. **rolling** [ALG<sup>+23</sup>]. **Roseg** [PSE<sup>+20</sup>]. **rotating** [SEG21]. **rotationally** [REF<sup>+21</sup>]. **rotifers** [Gil22]. **Rottnest** [MVBG20]. **roughness** [YPF<sup>+23</sup>]. **rRNA** [DLL20]. **RS19** [KMM<sup>+22</sup>]. **rubble** [KDW<sup>+23</sup>]. **rubescens** [SDS<sup>+23</sup>]. **runoff** [FBJ<sup>+23</sup>, HSP<sup>+20</sup>, LLC<sup>+23</sup>].

**S** [DLL20, BSGA21, HZC<sup>+24</sup>, RvHF<sup>+20</sup>]. **Sahara** [NEB<sup>+22</sup>]. **Saharan** [BFE<sup>+20</sup>]. **saline** [IASNCR21, SSP<sup>+20</sup>]. **salinity** [ETG21, GR24, IMB<sup>+22</sup>, LSC<sup>+21</sup>, OBL20]. **salinity-alkalinity** [IMB<sup>+22</sup>]. **salinizing** [ZZCD23]. **salmon** [ASH<sup>+20</sup>, FBJ<sup>+23</sup>, KHB22]. **salps** [SDSGR21]. **Salt** [YJB<sup>+20</sup>, BVM<sup>+20</sup>, DSY20, EJM<sup>+23</sup>, GBMKJ22, KBB<sup>+22</sup>, LVHK20, LGF22, MKM<sup>+23</sup>, OJUN23, SWK<sup>+23</sup>, TEK<sup>+21</sup>, WLK<sup>+21</sup>, XWL<sup>+21</sup>, YLT<sup>+20</sup>, ZZCD23]. **salt-wedge** [WLK<sup>+21</sup>]. **saltmarsh** [HGA24, LDGB<sup>+24</sup>, LCS<sup>+20</sup>, WPO<sup>+22</sup>, YXC<sup>+22</sup>, ZZL<sup>+21</sup>, ZvBZ<sup>+20</sup>]. **sampled** [IMB<sup>+22</sup>, PYM<sup>+20</sup>]. **samples** [GWS<sup>+21</sup>, KSR20]. **sampling** [BRCO21, RWT<sup>+21</sup>]. **San** [BM22, BMB22, GNO22]. **sandy** [KPM<sup>+20</sup>, WAPC20, vEMF<sup>+20</sup>]. **Sanriku** [NSK<sup>+21</sup>]. **Sargasso** [LPO<sup>+20</sup>, LSS<sup>+24</sup>]. **save** [DMCW23]. **scale** [ASL<sup>+24</sup>, BMA<sup>+20</sup>, BGAD<sup>+22</sup>, DAN<sup>+22</sup>, DMM<sup>+21</sup>, DFW<sup>+20</sup>, EWF22, GBC<sup>+20</sup>, GSD<sup>+23</sup>, GLB<sup>+22</sup>, KPNJ23, MACC24, MSGW<sup>+20</sup>, MHdS<sup>+21</sup>, MGI<sup>+22</sup>, OYM<sup>+20</sup>, PATL<sup>+23</sup>, SH22, SMKS22, WO21]. **scales** [AH20, AHF<sup>+22</sup>, BRB<sup>+22</sup>, CESS21, FBR<sup>+23</sup>, LM24, MCH<sup>+21</sup>, PYM<sup>+20</sup>, RTM<sup>+20</sup>]. **Scaling** [CGC<sup>+21</sup>]. **Scallop** [TJW<sup>+22</sup>, CGR22, FSH<sup>+23</sup>]. **Scandinavia** [LDGB<sup>+23</sup>, LDGB<sup>+24</sup>]. **scattering** [KSR20]. **scavenging** [YPF<sup>+23</sup>]. **scenario** [AAC<sup>+21</sup>]. **scenarios** [HEH<sup>+20</sup>, JHS<sup>+21</sup>]. **sclerochronology** [MMLPRHCG22]. **Scotia** [DLL20]. **Sea** [TMS<sup>+21</sup>, AGC<sup>+21</sup>, BSGA21, BMR<sup>+21a</sup>, BMLV24, CLW<sup>+21</sup>, CHAA21, DNB<sup>+20</sup>, FNB<sup>+23</sup>, FXD<sup>+22</sup>, GVF<sup>+23</sup>, HMM<sup>+22</sup>, JHvL<sup>+23</sup>, LLL<sup>+23</sup>, LAFV23, LVHK20, LRM21, MZXY22, MY23, MBLA<sup>+21</sup>, MKBSK19, MLG<sup>+20</sup>, OSR20, OBB<sup>+20</sup>, PCN22, PGN<sup>+21</sup>, QMG21, SH22, SIP21, TMKB<sup>+22</sup>, VCT<sup>+23</sup>, WHAR<sup>+20</sup>, WOMWR20, WXK<sup>+22</sup>, WDG<sup>+21</sup>, YLT<sup>+20</sup>, ZSD<sup>+20</sup>, ZXE<sup>+23</sup>, ZvBZ<sup>+20</sup>, CGRGP<sup>+21</sup>, CGR22, CBB<sup>+22</sup>, CDA<sup>+20</sup>, CCDM21, DNB<sup>+20</sup>, DGW<sup>+21</sup>, DLL20, EFP<sup>+21</sup>, GLM<sup>+23</sup>, HDD<sup>+22</sup>, HPNU20, KPL<sup>+20</sup>, LCHB22, LTJ<sup>+20</sup>, LPO<sup>+20</sup>, LNC<sup>+23</sup>, LSS<sup>+24</sup>, NvBE<sup>+21</sup>, RHS<sup>+22</sup>, RvHF<sup>+20</sup>, RSH<sup>+20</sup>, RBR<sup>+23</sup>, SORGC<sup>+21</sup>, SGSD<sup>+22</sup>, TMKB<sup>+22</sup>, ZZO<sup>+21</sup>, vHLV<sup>+20</sup>]. **Sea-ice** [TMS<sup>+21</sup>, MLG<sup>+20</sup>, VCT<sup>+23</sup>]. **sea-level** [FNB<sup>+23</sup>, YLT<sup>+20</sup>]. **seabed** [CBF<sup>+23</sup>, SHPW22, TPTS23]. **seabird** [CDW<sup>+24</sup>]. **seabird-derived** [CDW<sup>+24</sup>]. **seafloor** [GPDA<sup>+20</sup>]. **Seagrass** [AMO20, AAC<sup>+21</sup>, AHCF22, BBMD20, HHMH22, JvKvT<sup>+20</sup>, JHBB22, KHK<sup>+22</sup>, LLTT<sup>+24</sup>, MRH<sup>+23</sup>, RLP<sup>+20</sup>, RS21, SVMM<sup>+22</sup>, SN22, VLP<sup>+21</sup>, YvdHC<sup>+20</sup>, ZWM22, dSNIB22]. **seagrass-dominated** [JvKvT<sup>+20</sup>]. **seagrasses** [LSW<sup>+20b</sup>, THVJ23]. **seals** [KTH<sup>+21</sup>]. **seas** [BND<sup>+23</sup>, LCZ<sup>+21</sup>, YWZZ20, MLL<sup>+21</sup>]. **seascape** [PVSP<sup>+22</sup>, SHPW22]. **Season** [WWB<sup>+20</sup>, GNO22, SZA<sup>+21</sup>, SSR<sup>+23</sup>].

**season-dependent** [GNO22]. **Seasonal**

[AAB<sup>+</sup>22, ACA<sup>+</sup>22, CCB<sup>+</sup>20, CMCC24, CGL<sup>+</sup>21, CP22, DLDF21, GPK<sup>+</sup>21, HABL<sup>+</sup>21, LZG21, LSS<sup>+</sup>24, MMF<sup>+</sup>21, PLB<sup>+</sup>21, RWMP<sup>+</sup>23, RBSB22, SPR22, SSCE20, ZWM22, AWGV20, AJMG21, HBG<sup>+</sup>22, HSP<sup>+</sup>20, IASNCR21, JLW<sup>+</sup>23, KWS<sup>+</sup>21, LVZ21, MLK<sup>+</sup>22, MGGRR<sup>+</sup>21, NGSS23, RHM<sup>+</sup>21, SKB<sup>+</sup>22, SCT<sup>+</sup>21, SGS22, TKS<sup>+</sup>20, VCBB20, XYL<sup>+</sup>23, vdPMF<sup>+</sup>21].

**Seasonality** [CCFF21, CCDM21, LRNG24, MK21, RPKC22, MKD22].

**Seasonally**

[BM22, CVF<sup>+</sup>20, LXC<sup>+</sup>21b, MLK<sup>+</sup>22, PJRV23, SSM<sup>+</sup>22b, THVJ23].

**Seasons** [HCNO<sup>+</sup>20, GCW<sup>+</sup>23, JHBB22, SML21b]. **seawater**

[Edm21a, KSR20, MAD<sup>+</sup>22, NTJ<sup>+</sup>20, SOSN23, YPF<sup>+</sup>23, YWZZ20].

**seaweed** [WWB<sup>+</sup>20]. **seaweeds** [RHM<sup>+</sup>21]. **secondary**

[BD22, CCFF21, DBFC24, FSM<sup>+</sup>21, LEK<sup>+</sup>22, ZZL<sup>+</sup>21]. **Secretion**

[HVMS<sup>+</sup>21]. **sector** [YAH<sup>+</sup>21]. **Sediment**

[CEE<sup>+</sup>22, HZZ<sup>+</sup>20, MP23, PGB24, SVMM<sup>+</sup>22, AJMG21, BBH<sup>+</sup>20, BBCA<sup>+</sup>21, CGD22, DLDF21, GWS<sup>+</sup>21, GMI<sup>+</sup>21, HBS<sup>+</sup>22, HMM<sup>+</sup>22, HLKD23, HHMH22, HLPT20, HNS21, HMB<sup>+</sup>20, JLMW21, LVHK20, LNR<sup>+</sup>20, LTH21, MDBI20, MIR<sup>+</sup>22, MCS<sup>+</sup>23, MWHR<sup>+</sup>22, OYM<sup>+</sup>20, PATL<sup>+</sup>23, PSK21, RWL<sup>+</sup>24, SMCS23, YLT<sup>+</sup>20, ZTT23, ZSF<sup>+</sup>23, ZWM22, dSNIB22, vHHP<sup>+</sup>22].

**sediment-deficient** [LVHK20]. **Sedimentary**

[SLHL<sup>+</sup>22, HLPT20, LLK<sup>+</sup>22, LL23, RBR<sup>+</sup>23, SGA<sup>+</sup>22, SGGB21, TKS<sup>+</sup>20].

**sedimentation** [HZM<sup>+</sup>21, LLC21, RNW<sup>+</sup>23, SVBT20]. **sediments**

[AGC<sup>+</sup>21, BAG<sup>+</sup>24, BJK<sup>+</sup>21, BVM<sup>+</sup>20, CBB<sup>+</sup>22, CHP<sup>+</sup>24, CBF<sup>+</sup>23, DGTW21, DLC<sup>+</sup>22, FXD<sup>+</sup>22, HPB<sup>+</sup>21, HBR<sup>+</sup>22, KBB<sup>+</sup>22, LDGB<sup>+</sup>23, MHG<sup>+</sup>23, NKH<sup>+</sup>23, ORE20, OGD20, PYM<sup>+</sup>20, RvHF<sup>+</sup>20, RLP<sup>+</sup>20, RWS<sup>+</sup>22, RCS<sup>+</sup>20, SSM<sup>+</sup>21a, SJR21, SSEO21, SSCE20, SZY<sup>+</sup>20, THL<sup>+</sup>21, XLN21].

**seed** [ZZL<sup>+</sup>21, ZSZ<sup>+</sup>22]. **seedling** [vHHP<sup>+</sup>22]. **seedlings**

[OJUN23, SRN<sup>+</sup>21]. **seepage** [BKMY21, LBG<sup>+</sup>22]. **seeps**

[AGC<sup>+</sup>21, GPK<sup>+</sup>21]. **seiche** [NH22]. **seiches** [BMS<sup>+</sup>22]. **select** [LPO<sup>+</sup>20].

**selection** [MTB<sup>+</sup>21, RTK23]. **Selective** [FLW<sup>+</sup>21, HMBB21, KHSP21].

**semi** [BKC20, WCC20, XYL<sup>+</sup>23]. **semi-enclosed** [XYL<sup>+</sup>23]. **semi-labile**

[BKC20, WCC20]. **semianalytically** [LSW<sup>+</sup>20a]. **senescence** [ZWM22].

**sense** [ZLG<sup>+</sup>23]. **sensing** [LSW<sup>+</sup>20a, SMF20]. **sensitive**

[BJS<sup>+</sup>23b, FLH<sup>+</sup>23, HZM<sup>+</sup>21]. **sensitivities** [LSCL21]. **sensitivity**

[CLW<sup>+</sup>21, CCFF21]. **sensor** [BCWS23, SSM<sup>+</sup>22a]. **sensor-based** [BCWS23].

**sensory** [RS20]. **separation** [LTJ<sup>+</sup>20, MCYR20, NH23]. **September**

[TNK<sup>+</sup>22]. **sequencing** [BBGM20, DLL20, WZCK20]. **sequestration**

[FXD<sup>+</sup>22, GBMKJ22, JHSG<sup>+</sup>24, LDGB<sup>+</sup>24, PYY<sup>+</sup>20, SHS<sup>+</sup>22, XWL<sup>+</sup>21,

YXC<sup>+</sup>22]. **series** [BHA<sup>+</sup>22, CBN21, FHMK20, FR23, FIH<sup>+</sup>20, GWS<sup>+</sup>21,

HRK<sup>+</sup>22, LABM20, MKD22, SGM<sup>+</sup>22, TRS<sup>+</sup>20, WDG<sup>+</sup>21]. **services**

[OBB<sup>+</sup>20]. **setae** [SMF20, SYMF21]. **settings** [BDE<sup>+</sup>22, CEE<sup>+</sup>22].

**settlement** [MURK20, OSR20]. **settling** [ABS<sup>+</sup>21, EAF<sup>+</sup>22]. **setup**

[REF<sup>+</sup>21]. **severity** [CTF<sup>+</sup>21]. **sexual** [MGP<sup>+</sup>21]. **Shallow**

[BSIdG23, BMR<sup>+</sup>21b, BOC<sup>+</sup>21, CB21a, FBV23, HBS<sup>+</sup>22, HZZ<sup>+</sup>20, JOC<sup>+</sup>20,

LMS23, LBG<sup>+22</sup>, LZM<sup>+21</sup>, LAMG<sup>+22</sup>, PSK21, RFB<sup>+22</sup>, RHA<sup>+23</sup>, RLL<sup>+21</sup>, RS21, SPBK21, SSCE20, SWS<sup>+22</sup>, TBH<sup>+22</sup>, TKM<sup>+22</sup>, WCZ<sup>+20</sup>].

**shallow-lake** [LZM<sup>+21</sup>]. **shallow-water** [LBG<sup>+22</sup>, SWS<sup>+22</sup>]. **shape** [CEE<sup>+22</sup>, FW<sub>v</sub>A<sup>+21</sup>, FBRG23, GGR24, KVKS22, SGM<sup>+22</sup>, TKM<sup>+22</sup>, ZLIP20]. **shapes** [RBAC<sup>+20</sup>]. **shaping** [EBK<sup>+20</sup>, LNC<sup>+23</sup>, ZSZ<sup>+22</sup>]. **share** [MRD<sup>+21</sup>]. **sharks** [PRS<sup>+20</sup>]. **Sharp** [BHSG<sup>+20</sup>]. **shelf** [CHP<sup>+24</sup>, CBF<sup>+23</sup>, CHAA21, FBRG23, GPDA<sup>+20</sup>, GPK<sup>+21</sup>, HJWP24, KTH<sup>+21</sup>, KPS21, L<sub>v</sub>BS<sup>+22</sup>, QRWT<sup>+22</sup>, SLJ<sup>+22</sup>, WRC<sup>+21</sup>, ZLU<sup>+20</sup>, MMF<sup>+21</sup>]. **shell** [GPB<sup>+20</sup>, MDWT<sup>+22</sup>]. **shells** [FSH<sup>+23</sup>, TJW<sup>+22</sup>, WOMWR20]. **sheltering** [ZN20]. **Shen** [LD22]. **Shield** [GB21, GB23]. **Shift** [MLP21b, AFH<sup>+22</sup>, BTK<sup>+21</sup>, BHSL21, GBO<sup>+20</sup>, RGP<sup>+22</sup>]. **shifted** [MPW<sup>+23</sup>]. **Shifting** [DAN<sup>+22</sup>, ZZHZ23]. **shifts** [AH20, CHA<sup>+24</sup>, DMC<sup>+22</sup>, GPK<sup>+21</sup>, HLH<sup>+23</sup>, MWV22, MKL<sup>+24</sup>, RNW<sup>+23</sup>, RV<sub>v</sub>B<sup>+23</sup>, RS21, SPHH22, TMKB<sup>+22</sup>, WCZ<sup>+20</sup>, BWV<sup>+20</sup>].

**shipboard** [BBA<sup>+23</sup>]. **shipwrecks** [HMM<sup>+22</sup>]. **shore** [FGO<sup>+20</sup>, GLN<sup>+20</sup>, GLN<sup>+21</sup>, GTKW<sup>+20</sup>]. **shores** [DP22]. **Shoreward** [KTH<sup>+21</sup>]. **Shoring** [BV21]. **Short** [RTK23, LRNG24, ORE20, TMS<sup>+21</sup>]. **short-term** [LRNG24, ORE20, TMS<sup>+21</sup>]. **shortages** [LMSN23]. **show** [KFHS24]. **shows** [JLW<sup>+23</sup>, OLR<sup>+23</sup>]. **shredders** [FRRG<sup>+21</sup>]. **shrimp** [HBY<sup>+22</sup>]. **shunts** [GM22]. **Siberia** [HABL<sup>+21</sup>, SLHL<sup>+22</sup>]. **sick** [ONH<sup>+20</sup>]. **side** [MWHR<sup>+22</sup>]. **side-by-side** [MWHR<sup>+22</sup>]. **Siderophore** [PDK<sup>+23</sup>]. **Sierra** [CM20a]. **signaling** [BMGK22, MK20]. **signals** [ZLG<sup>+23</sup>]. **signature** [LHGJ21]. **signatures** [TZF<sup>+22</sup>]. **Significant** [RV<sub>v</sub>B<sup>+23</sup>, GSD<sup>+23</sup>, MTP<sup>+23</sup>, RNW<sup>+23</sup>, WF22, YML<sup>+21</sup>, ZXE<sup>+23</sup>].

**significantly** [RWL<sup>+24</sup>]. **Signy** [MSGW<sup>+20</sup>]. **silica** [IKN<sup>+21</sup>, MLT<sup>+21</sup>, RWL<sup>+24</sup>, Roy20, XSZ<sup>+21</sup>, ZBNH<sup>+21</sup>]. **silicon** [LLMM<sup>+23</sup>, LAMG<sup>+22</sup>, MBLA<sup>+21</sup>, WSLC22, ZSD<sup>+20</sup>]. **silled** [HJWP24]. **similar** [CTP21, CCG<sup>+22</sup>, HMB<sup>+20</sup>, LTJ<sup>+20</sup>, SVM<sup>+22</sup>, VWR<sup>+23</sup>].

**Simple** [SDL22, ZLN21]. **simple-wave** [ZLN21]. **Simulated** [JHBB22, GRJ<sup>+22</sup>, JHSG<sup>+24</sup>, MLG<sup>+20</sup>, SBL<sup>+21</sup>]. **simulations** [BGAD<sup>+22</sup>]. **simultaneous** [THL<sup>+21</sup>]. **Single** [KSN<sup>+21</sup>]. **sink** [AFH<sup>+22</sup>, PUH<sup>+23</sup>, RTM<sup>+21</sup>]. **sinking** [ALG<sup>+23</sup>, CKH<sup>+21</sup>, CBN21, DKBG21, DLL20, JLS<sup>+20</sup>, LCMG<sup>+20</sup>, LG21, SAD<sup>+20</sup>, HCB<sup>+22</sup>]. **sinks** [GMNG<sup>+24</sup>, SGGB21]. **site** [OFM<sup>+21</sup>, TCP<sup>+22</sup>]. **site-specific** [TCP<sup>+22</sup>]. **sites** [MSG<sup>+22</sup>]. **situ** [BO20, BBGM20, DHNH22, GPB<sup>+20</sup>, GSD<sup>+23</sup>, MHMML<sup>+22</sup>, MCYR20, SSM<sup>+22a</sup>, VMP<sup>+21</sup>, WLS21]. **Size** [BJS23a, BMLV24, JSW<sup>+21</sup>, KSF<sup>+23</sup>, SDSGR21, AMC21, ALH<sup>+21</sup>, CHAA21, CHA<sup>+24</sup>, FGP22, GNO22, HBG<sup>+22</sup>, KSR20, LSL<sup>+20</sup>, LHS<sup>+20</sup>, LXC<sup>+21b</sup>, LDB<sup>+20</sup>, LHMR23, MGI<sup>+22</sup>, PMRG20, WOK<sup>+21</sup>, dJGCS23].

**size-** [GNO22]. **Size-dependent** [BMLV24]. **size-fractionated** [KSR20, LXC<sup>+21b</sup>]. **Size-independent** [JSW<sup>+21</sup>]. **Size-specific** [SDSGR21]. **skeleton** [CDW<sup>+24</sup>]. **Slope** [SMP21]. **sloping** [NH23]. **Slow** [KBB<sup>+22</sup>]. **Small** [SWC<sup>+23</sup>, AH20, BCWS23, CM20b, Edm21b, EWF22, GB21, GB23, IJSC20, KSF<sup>+23</sup>, MBA<sup>+21</sup>, MSGW<sup>+20</sup>, MLT<sup>+21</sup>, OYM<sup>+20</sup>,

PCJ<sup>+21</sup>, PRS<sup>+20</sup>, PSK21, WF22]. **small-scale** [EWF22, MSGW<sup>+20</sup>, OYM<sup>+20</sup>]. **smaller** [MN20, RHP<sup>+23</sup>]. **snow** [DBFC24, KFHS24, SGL<sup>+23</sup>, SEG21]. **snowpack** [PFB<sup>+22</sup>]. **sockeye** [ASH<sup>+20</sup>]. **soft** [FPBG<sup>+22</sup>]. **soil** [PYY<sup>+20</sup>, VJS<sup>+20</sup>, ZJW<sup>+22</sup>]. **soils** [HGA24, LDGB<sup>+24</sup>, PNT<sup>+21</sup>]. **Solar** [vdPMF<sup>+21</sup>]. **soluble** [LMS<sup>+21</sup>]. **sorption** [PNT<sup>+21</sup>]. **soundscapes** [CLW<sup>+21</sup>]. **Source** [SCB<sup>+20</sup>, AFH<sup>+21</sup>, AFH<sup>+22</sup>, BBH<sup>+20</sup>, BHA<sup>+22</sup>, BOC<sup>+21</sup>, DBFC24, DKPS23, HSD<sup>+20</sup>, IFU<sup>+20</sup>, LCHB22, PUH<sup>+23</sup>, RTM<sup>+21</sup>, STB22, VST<sup>+22</sup>]. **source-specific** [BHA<sup>+22</sup>]. **source/sink** [RTM<sup>+21</sup>]. **sources** [AHCf22, BND<sup>+23</sup>, BSF<sup>+21</sup>, BCL<sup>+22</sup>, CSD<sup>+24</sup>, GMNG<sup>+24</sup>, KRC23, KLG<sup>+23</sup>, LZD<sup>+23</sup>, MV22a, MV22b, MTB<sup>+21</sup>, MHL<sup>+20</sup>, MCS<sup>+23</sup>, PMJ<sup>+21</sup>, SSS<sup>+24</sup>, WLK<sup>+21</sup>]. **South** [MSGW<sup>+20</sup>, SMW<sup>+21</sup>, AHCJ<sup>+20</sup>, GRJ<sup>+22</sup>, JLS<sup>+20</sup>, WPY<sup>+20</sup>]. **Southeast** [LL23]. **Southern** [XYL<sup>+23</sup>, YAP<sup>+22</sup>, DAB<sup>+21</sup>, LDGB<sup>+23</sup>, LDGB<sup>+24</sup>, NvBE<sup>+21</sup>, BRCO21, BDE<sup>+22</sup>, BBA<sup>+23</sup>, CGL<sup>+21</sup>, GRJ<sup>+22</sup>, HCB<sup>+22</sup>, IJSC20, LMC<sup>+21</sup>, LWvdM<sup>+21</sup>, MT23, MSB<sup>+22</sup>, MPW<sup>+23</sup>, MLT<sup>+21</sup>, MGC<sup>+20</sup>, RKBT<sup>+23</sup>, YSHS23]. **Southwest** [ZZWL22]. **sp** [DFW<sup>+20</sup>, GTKW<sup>+20</sup>, vGDH<sup>+21</sup>]. **space** [FWvA<sup>+21</sup>, FMT<sup>+20</sup>, LHD<sup>+20</sup>, MO23]. **space-for-time** [FMT<sup>+20</sup>, MO23]. **Spain** [TZF<sup>+22</sup>]. **spanwise** [JYA21]. **Spatial** [BBH<sup>+20</sup>, DvOH<sup>+20</sup>, KHSP21, LBBM21, MHdS<sup>+21</sup>, NB20, RHA<sup>+23</sup>, RWT<sup>+21</sup>, RKBT<sup>+23</sup>, SML<sup>+21a</sup>, SMNT22, WRWPG19, WZCK20, AHF<sup>+22</sup>, BR22, BRB<sup>+22</sup>, CGRGP<sup>+21</sup>, CBHB21, CCB<sup>+20</sup>, CMCC24, FBR<sup>+23</sup>, GCW<sup>+23</sup>, HMP<sup>+21</sup>, HZC<sup>+24</sup>, KBL<sup>+20</sup>, LM24, LAFV23, LGI<sup>+20</sup>, MLK<sup>+22</sup>, MKP<sup>+23</sup>, PYM<sup>+20</sup>, Roy20, SORGC<sup>+21</sup>, SCC<sup>+21</sup>, YAP<sup>+22</sup>, ZBNH<sup>+21</sup>, Ano21c]. **spatially** [MOW<sup>+22</sup>]. **Spatio** [LSC<sup>+21</sup>, AH20]. **Spatio-temporal** [LSC<sup>+21</sup>, AH20]. **Spatiotemporal** [Edm21a, GZX<sup>+22</sup>, MHP<sup>+23</sup>, CHS<sup>+20</sup>, FKN21, GCEM<sup>+23</sup>, IJSC20, MCH<sup>+21</sup>, OSR20, PSK21, SPBK21]. **Spawning** [OFM<sup>+21</sup>, OLR<sup>+23</sup>, SRV<sup>+20</sup>]. **specialists** [MZW<sup>+21</sup>]. **speciation** [BCA<sup>+20</sup>, RBR<sup>+23</sup>]. **Species** [CSB22, BTT23, BRB<sup>+20</sup>, BRB<sup>+22</sup>, CCG<sup>+22</sup>, EWF22, FRRG<sup>+21</sup>, GMS21, GBB<sup>+21</sup>, HANW21, HDD<sup>+22</sup>, IKN<sup>+21</sup>, LBJS22, LTJ<sup>+20</sup>, MVP<sup>+20</sup>, MN20, NB23, SVMM<sup>+22</sup>, SRN<sup>+21</sup>, SYT<sup>+21</sup>, VGvdB<sup>+21</sup>, VJS<sup>+20</sup>, WWGP21, WNHY21, vHHP<sup>+21</sup>, vHHP<sup>+22</sup>]. **Species-specific** [CSB22, IKN<sup>+21</sup>, WWGP21]. **specific** [BHA<sup>+22</sup>, BBKA<sup>+21</sup>, CSB22, DMS<sup>+21</sup>, IKN<sup>+21</sup>, LDGB<sup>+24</sup>, OLFH21, SDSGR21, TCP<sup>+22</sup>, WWGP21, vdPAV<sup>+20</sup>]. **specificity** [KSN<sup>+21</sup>]. **spectra** [ALH<sup>+21</sup>, SSB<sup>+22</sup>]. **Spectral** [TPTS23, HZS21, LLBC20]. **sphaericus** [WNHY21]. **spiny** [BFCC<sup>+21</sup>]. **Spitsbergen** [vdPMF<sup>+21</sup>]. **Sponge** [LAMG<sup>+22</sup>, LMP<sup>+20</sup>, LMS23, MBLA<sup>+21</sup>]. **Sponges** [HSD<sup>+20</sup>, BMR<sup>+21a</sup>, HOB<sup>+22</sup>, MSL21, MCYR20, MDIY23]. **Spread** [TNK<sup>+22</sup>]. **spring** [ACA<sup>+22</sup>, AFK<sup>+22</sup>, BAHH<sup>+20</sup>, CGRGP<sup>+21</sup>, CM20b, FBRG23, KPG<sup>+23</sup>, MLC<sup>+21</sup>, PW22, REF<sup>+21</sup>, SIP21, VCT<sup>+23</sup>, YWLY20, vdPAV<sup>+20</sup>]. **Springtime** [JWA<sup>+22</sup>]. **sprinkling** [LCHB22]. **squid** [PMRG20].



**Stability** [MDDL22, BOC<sup>+</sup>21, LMS<sup>+</sup>21, SSP<sup>+</sup>20, VKGW22, WMTJW22, ZTT23, dCLO<sup>+</sup>23]. **Stable** [GAS<sup>+</sup>23, HFL<sup>+</sup>20, WRS<sup>+</sup>22, CDH<sup>+</sup>21, EST<sup>+</sup>24, HZC<sup>+</sup>24, IFU<sup>+</sup>20, KLG<sup>+</sup>23, LVDM22, MLP<sup>+</sup>21a, SWS<sup>+</sup>22, TMM<sup>+</sup>20, WAPC20]. **stage** [BFCC<sup>+</sup>21]. **stages** [OFM<sup>+</sup>21]. **stalked** [FJP<sup>+</sup>21]. **state** [DMC<sup>+</sup>22, RNW<sup>+</sup>23, RVvB<sup>+</sup>23, RGP<sup>+</sup>22, SH22, SWOR20, SSWM20, TMKB<sup>+</sup>22]. **states** [BSIdG23, TBH<sup>+</sup>22, BCTH20, CCA<sup>+</sup>21, DRA<sup>+</sup>23, FBK<sup>+</sup>22, GGR24]. **Station** [NCC<sup>+</sup>21, CBN21, SBM<sup>+</sup>21]. **status** [THVJ23]. **stilling** [JOC<sup>+</sup>20, SGM<sup>+</sup>21]. **stimulates** [BVM<sup>+</sup>20, RGW<sup>+</sup>23]. **stingrays** [CSB22]. **Stockholm** [vHLV<sup>+</sup>20]. **stocks** [CEE<sup>+</sup>22, HMP<sup>+</sup>21, LDGB<sup>+</sup>24, SVM<sup>+</sup>22]. **Stoichiometric** [FDHS20, MSJ21, KTA<sup>+</sup>21]. **Stoichiometry** [Roy20, DTPV21, FBV23, FPB<sup>+</sup>23, LG21, MV22a, MV22b, STB22, SML21b, VKB<sup>+</sup>22, WOT<sup>+</sup>23, WWFS21, ZLS<sup>+</sup>21]. **Stokes** [FGO<sup>+</sup>20, LCMG<sup>+</sup>20]. **stony** [FPBG<sup>+</sup>22]. **storage** [BRM<sup>+</sup>23, LRNG24, MRH<sup>+</sup>23]. **stores** [MKM<sup>+</sup>23]. **storm** [DAD<sup>+</sup>21, KX22, WTvD<sup>+</sup>22, vHHP<sup>+</sup>21]. **storm-induced** [DAD<sup>+</sup>21, WTvD<sup>+</sup>22]. **storms** [LRM21, TKM<sup>+</sup>22]. **strains** [HDS<sup>+</sup>20]. **stranded** [RHM<sup>+</sup>21]. **Strategies** [FRRG<sup>+</sup>21, BDL<sup>+</sup>21, CZH<sup>+</sup>21, DFJ22, HXL<sup>+</sup>21, RCH<sup>+</sup>20, WTvD<sup>+</sup>22, WRHR22]. **strategists** [CLGH23]. **strategy** [LZG21]. **Stratification** [DMM<sup>+</sup>21, KX22, XTL<sup>+</sup>20, MO23, PMD<sup>+</sup>23, PW22, SSP<sup>+</sup>20, SGM<sup>+</sup>21, YWLY20, YJB<sup>+</sup>20]. **stratified** [ACA<sup>+</sup>22, Ano21a, CYPRG<sup>+</sup>23, CKCB<sup>+</sup>23, EAF<sup>+</sup>22, GSG<sup>+</sup>17, LVDM22, LSW<sup>+</sup>20a, MAG<sup>+</sup>22, SBW21]. **Stream** [BCL<sup>+</sup>22, SDB<sup>+</sup>23, BWB<sup>+</sup>22, CGGC<sup>+</sup>21, CZK<sup>+</sup>23, DPB<sup>+</sup>23, FAB<sup>+</sup>20, FMT<sup>+</sup>20, IFU<sup>+</sup>20, LHL<sup>+</sup>21, MACC24, MKP<sup>+</sup>23, MHSL22, MGI<sup>+</sup>22, PSE<sup>+</sup>20, RGP<sup>+</sup>22, RVS<sup>+</sup>22, SBB20]. **streambed** [RBAC<sup>+</sup>20]. **streams** [AFH<sup>+</sup>21, ARBvS<sup>+</sup>21, BHR<sup>+</sup>23, BHSL21, BCL<sup>+</sup>22, BKC20, BRM<sup>+</sup>23, BRB<sup>+</sup>22, CTF<sup>+</sup>21, DRA<sup>+</sup>23, FBJ<sup>+</sup>23, LLC21, MA21, MGGRR<sup>+</sup>21, RSLW23, RWT<sup>+</sup>21, RRHS<sup>+</sup>21, RHP<sup>+</sup>23, RBSB22, SPR22, TKW<sup>+</sup>23, WK21]. **strength** [DMM<sup>+</sup>21, WWB<sup>+</sup>20]. **stress** [ALH<sup>+</sup>21, EFP<sup>+</sup>21, FLH<sup>+</sup>23, LRdGFP23, MRT<sup>+</sup>24, WWB<sup>+</sup>20]. **stressed** [BWV<sup>+</sup>20]. **stressors** [ABC<sup>+</sup>21, HHMH22]. **Strong** [BLS20, GCMJ23, SJJ<sup>+</sup>21, AH20, KTA<sup>+</sup>21, LMM<sup>+</sup>21, MSGW<sup>+</sup>20, WXK<sup>+</sup>22]. **stronger** [BZK<sup>+</sup>22]. **strongly** [LRNG24, RGW<sup>+</sup>23]. **Structural** [KHHZ20]. **Structure** [LNR<sup>+</sup>20, BGM<sup>+</sup>22, BR22, CCFF21, CGD22, DBFC24, FWvA<sup>+</sup>21, FKN21, GSP<sup>+</sup>23, GGHBS<sup>+</sup>20, IJSC20, LWS<sup>+</sup>22, LHS<sup>+</sup>20, LDB<sup>+</sup>20, MMF<sup>+</sup>21, MSGW<sup>+</sup>20, MDDL22, PFB<sup>+</sup>22, PSNS22, RPKC22, SGM<sup>+</sup>22, TMKB<sup>+</sup>22, WRC<sup>+</sup>21, WCZ<sup>+</sup>20, YvdHC<sup>+</sup>20, YAP<sup>+</sup>22]. **structures** [ASL<sup>+</sup>24, FHR<sup>+</sup>21, KTH<sup>+</sup>21]. **structuring** [SORGC<sup>+</sup>21]. **studies** [CBPNA22, KSF<sup>+</sup>23]. **study** [BBMD20, CZH<sup>+</sup>21, CB21a, HKM<sup>+</sup>20, JLMW21, KRM<sup>+</sup>20, LBvE23, LTJ<sup>+</sup>20, MAG<sup>+</sup>22, MCYR20, PHM21, SWOR20, WTvD<sup>+</sup>22, CBN21]. **sub** [BJK<sup>+</sup>21]. **sub-Antarctic** [BJK<sup>+</sup>21]. **subalpine** [SEK20]. **subantarctic** [HCB<sup>+</sup>22, SBV<sup>+</sup>21]. **Subarctic** [HDK<sup>+</sup>21, BGG<sup>+</sup>20, CBS<sup>+</sup>21, DBFC24, MTP<sup>+</sup>23, MDDL22, MMG<sup>+</sup>21,

MK21, PCJ+21, PPB+21, SWC+23, SSM21b, TION23, VKK+21, WOK+21].  
**subecotypes** [TKA21]. **subglacial** [MP23]. **subject** [KWB21]. **Submarine**  
 [RTM+21, FKN21, IASNCR21, KRM+20, LNR+20, WLK+21]. **submerged**  
 [GCMJ23, HGМК22]. **Submesoscale** [FWvA+21]. **subpolar** [WF22].  
**subpopulation** [DCJB22]. **subsidiaries** [EST+24, EFC+23, FW21].  
**Subsidized** [BWV+20]. **substantially** [CKCB+23]. **substitution**  
 [FMT+20, KMM+22, MDP+23]. **substrate**  
 [CLC+22, MKBSK19, dOKC+21]. **substrates**  
 [DWW+21, HP20, MHMML+22]. **Subsurface**  
 [KWB21, GLN+20, SSH+22, SLJ+22]. **subterranean** [BPL22, WAPC20].  
**subtidal** [SSEO21, SPKM22, SMKS22]. **Subtle** [LGI+20]. **Subtropical**  
 [HYPG+22, RPKC22, TKA21, ZBNH+21, BAD+21, CKH+21, FIH+20,  
 GLAHH+23, HZZ+20, LSCL21, MZW+21, SGS22, VLP+21, WPY+20,  
 YMSH20, YOXC23, YAE+23, ZLU+20]. **Successful** [SBH23]. **succession**  
 [ACE+22, CLGH23, LVZ21, NGSS23, PWS+20]. **Successional**  
 [THT+20, BFE+20, vHHP+21]. **successive** [MWV22]. **succumb** [FLH+23].  
**sudden** [ZZL+21]. **sugars** [GAS+23]. **suggest** [PKV20, WF22]. **suggests**  
 [DAB+21]. **suitable** [GPDA+20]. **Sulfate**  
 [MWHR+22, SSM+21a, KWS+21, PUH+23, SJR21, SZY+20, THL+21].  
**Sulfate-** [MWHR+22]. **sulfate-dependent** [SZY+20]. **sulfate-enriched**  
 [KWS+21]. **sulfate-reducing** [SJR21]. **sulfated** [HVMS+21]. **sulfide**  
 [MT23, THL+21, XYZ+21]. **Sulfolipid** [MDP+23]. **Sulfur** [CCK+21,  
 ORRMD+21, HDK+21, LWC+24, MZXY22, MY23, PUH+23, THL+21].  
**Summer** [DCF+22, PFB+22, ACA+22, DMM+21, JHvL+23, KCT23,  
 LWC+24, LNC+23, MBH+23, MAG+22, PW22, PGN+21, SBM+21, SHE+21,  
 VJH+22, ZLW21b]. **summertime** [RHA+23, SLJ+22]. **Superior**  
 [PUH+23, SRL+20]. **superoxide** [AFM23]. **supersaturated** [LSW+20b].  
**supersaturation** [CM20a, SBW+20]. **supervised** [SCC+21]. **supplements**  
 [LRdGFP23]. **Supply** [SCT+21, GMI+21, LLC+23, LL23, MFGF+22].  
**Supply-controlled** [SCT+21]. **support** [LAB+22, SWC+23]. **supported**  
 [SZY+20]. **supporting** [HMB+22]. **supports**  
 [FSM+21, MK20, SPLJA+20, SBW+20]. **Surface**  
 [GLAHH+23, BM22, CCB+20, DNB+20, JLS+20, KMV+20, KTH+21,  
 MCS+23, PATL+23, SIP21, TCP+22, WDG+21, YPF+23, ZZO+21].  
**surficial** [ZPK+22]. **surrounding** [AGC+21]. **surroundings** [RNW+23].  
**surveillance** [ARB+22]. **survey** [DMM+21, MVP+20]. **surveys**  
 [ACW+22, LDG+21]. **Survival**  
 [SRN+21, CGR22, HSP+20, KHB22, RVBP23, vdPAV+20]. **survive**  
 [WRA+23]. **susceptibility** [SIP21]. **suspended**  
 [DWS+22, DLL20, JLS+20, SAD+20]. **suspension** [RTK23]. **sustained**  
 [CCC+21]. **sustaining** [YLT+20]. **sustains** [BVL+23, MBLA+21]. **Svalbard**  
 [JLMW21]. **swimming** [CLT+22]. **Switzerland** [PSE+20].  
**Symbiodiniaceae** [RCH+20]. **symbiont** [MSD23]. **symbionts** [BCFI+22].  
**symbiosis** [WWGP21]. **Symbiotic** [FPBG+22]. **sympatric**

[CSB22, WRMP22]. **sympatry** [CBS<sup>+21</sup>, PPB<sup>+21</sup>]. **symptoms** [GÖA<sup>+23</sup>]. **Syn** [HCNO<sup>+20</sup>]. **Synchronized** [BRCO21]. **synchronous** [FR23, MRD<sup>+21</sup>]. **synchrony** [BVGQN22, DPB<sup>+23</sup>]. **Synechococcus** [LSCL21, WSLC22, ZLW<sup>+21a</sup>]. **Synergistic** [LZM<sup>+21</sup>]. **synthesis** [AWB<sup>+23</sup>, MA21, MGWS23, WRA<sup>+23</sup>]. **syntopy** [BRB<sup>+22</sup>]. **system** [FIH<sup>+20</sup>, KX22, KHCG<sup>+22</sup>, RMW<sup>+21</sup>, SWZ<sup>+23</sup>, VKGW22, WPY<sup>+20</sup>, ZLU<sup>+20</sup>, ZJW<sup>+22</sup>, dMKB<sup>+20</sup>, ACE<sup>+22</sup>, CMB<sup>+21</sup>]. **system-wide** [KHCG<sup>+22</sup>]. **Systematic** [BGG<sup>+20</sup>]. **systematically** [PKV20]. **systems** [HEH<sup>+20</sup>, HMB<sup>+20</sup>, KTA<sup>+21</sup>, KSF<sup>+23</sup>, LABM20, QS21, SBH23].

**Tackling** [CDH<sup>+21</sup>]. **tadpole** [BWB<sup>+22</sup>]. **Taihu** [XMP<sup>+21</sup>, GZX<sup>+22</sup>, XDQ<sup>+22</sup>]. **tailings** [LMS<sup>+21</sup>]. **Taiwan** [LHS<sup>+20</sup>]. **tank** [ALG<sup>+23</sup>, SEG21]. **target** [BMGK22]. **Tasmania** [LWvdM<sup>+21</sup>]. **taurine** [CDA<sup>+20</sup>]. **taxa** [OMM21]. **Taxon** [OLFH21, vdPAV<sup>+20</sup>, GCEM<sup>+23</sup>]. **Taxon-specific** [OLFH21, vdPAV<sup>+20</sup>]. **taxonomic** [GWS<sup>+21</sup>, HNS21, PGEB22, SRM23, vdPMF<sup>+21</sup>]. **techniques** [OAM<sup>+22</sup>]. **Temperate** [MWV22, AFH<sup>+21</sup>, AFH<sup>+22</sup>, AHCF22, CTM<sup>+21</sup>, CÖL<sup>+20</sup>, DCJB22, DdEM<sup>+23</sup>, FBJ<sup>+23</sup>, FR23, GWS<sup>+21</sup>, HBS<sup>+22</sup>, HEH<sup>+20</sup>, HSV22, KHB22, LAD<sup>+22</sup>, LHMR23, MTP<sup>+23</sup>, MGL22, MLC<sup>+21</sup>, MURK20, NB23, PSK21, RHA<sup>+23</sup>, RVvB<sup>+23</sup>, RWS<sup>+22</sup>, SPBK21, SML21b, SWK<sup>+23</sup>, SOT<sup>+20</sup>, TJW<sup>+22</sup>, VJS<sup>+20</sup>, WBB<sup>+21</sup>, WLK<sup>+21</sup>]. **Temperature** [MKL<sup>+24</sup>, OBL21, PSK21, SMD21, AAB<sup>+22</sup>, AFH<sup>+21</sup>, AFK<sup>+22</sup>, BM22, BMB22, BMH<sup>+23</sup>, BWSW24, CGR22, CT23, CHAA21, DWR<sup>+23</sup>, DCK<sup>+22</sup>, DAD<sup>+21</sup>, DKW<sup>+21</sup>, Edm21a, FLH<sup>+23</sup>, GR24, HM20, IOS24, JLR<sup>+22</sup>, KDV<sup>+23</sup>, Lem20, LSCL21, LNC<sup>+23</sup>, LSDA21, MVP<sup>+20</sup>, MRT<sup>+24</sup>, PBC21, Phi20, Phi21, SJH20, STB22, SHZ<sup>+21</sup>, SMKS22, VLP<sup>+21</sup>, XDQ<sup>+22</sup>, ZXE<sup>+23</sup>]. **Temperature-dependent** [OBL21]. **temperatures** [NB23, OJUN23, SIP21, SSL22, SGM<sup>+21</sup>]. **Temporal** [HLH<sup>+23</sup>, HDD<sup>+22</sup>, ZSF<sup>+23</sup>, AH20, AHF<sup>+22</sup>, FBR<sup>+23</sup>, LSC<sup>+21</sup>, LHS<sup>+20</sup>, MV22a, MV22b, NB20, RHA<sup>+23</sup>, RWT<sup>+21</sup>, Roy20, RKBT<sup>+23</sup>, SMNT22, WZCK20, ZBNH<sup>+21</sup>]. **temporally** [FR23]. **temporary** [CTF<sup>+21</sup>, FW21, GCEM<sup>+23</sup>, GPB<sup>+20</sup>]. **Ten** [FJP<sup>+21</sup>]. **term** [BCWS23, BBMD20, BMH<sup>+23</sup>, CB21a, CHA<sup>+24</sup>, DAD<sup>+21</sup>, FHMK20, FBV23, GBHF21, HBR<sup>+22</sup>, LAD<sup>+22</sup>, LRNG24, LVHK20, Lem20, LGQ<sup>+21</sup>, LZM<sup>+21</sup>, MVP<sup>+20</sup>, MKBSK19, MNMJ<sup>+21</sup>, ORE20, RSLW23, SJH20, SGM<sup>+21</sup>, TMS<sup>+21</sup>, YAH<sup>+21</sup>, MKBSK19]. **terminated** [vHLV<sup>+20</sup>]. **ternary** [ZJW<sup>+22</sup>]. **terrain** [GPDA<sup>+20</sup>]. **Terrestrial** [SOT<sup>+20</sup>, YML<sup>+21</sup>, AVS<sup>+22</sup>, TSX<sup>+23</sup>]. **terrigenous** [LL23, ZCZ<sup>+23</sup>]. **test** [BO20, PPB<sup>+21</sup>]. **test-bearing** [BO20]. **Testing** [CFC<sup>+20</sup>, LD22, SB22]. **Tetrademus** [ZSZ<sup>+21</sup>]. **tetraethers** [ZLL<sup>+24</sup>]. **Thaumarchaeota** [TRS<sup>+20</sup>]. **thaw** [FBP20, PWS<sup>+20</sup>]. **their** [BDMGH<sup>+23</sup>, BCFI<sup>+22</sup>, BCA<sup>+20</sup>, CHA<sup>+24</sup>, FPBG<sup>+22</sup>, HBG<sup>+22</sup>, HMBB21, HGA24, LLMM<sup>+23</sup>, MLS<sup>+21</sup>, MIR<sup>+22</sup>, ZLW<sup>+21a</sup>, ZLL<sup>+21</sup>]. **Thermal** [BCFI<sup>+22</sup>, AR20, CHA<sup>+24</sup>, EFP<sup>+21</sup>, KKP<sup>+21</sup>, MSD23]. **thermally** [EAF<sup>+22</sup>]. **thermokarst** [HABL<sup>+21</sup>, KSH<sup>+23</sup>, LPA<sup>+23</sup>, PWS<sup>+20</sup>, ZSK<sup>+21</sup>].

**Thiamine** [WK21]. **thickest** [SRN<sup>+</sup>21]. **Thin** [PLLM21, GBC<sup>+</sup>20]. **Think** [OYM<sup>+</sup>20]. **Three** [CLT<sup>+</sup>22, EWF22, MHL<sup>+</sup>20, MZW<sup>+</sup>21, VGvdB<sup>+</sup>21]. **Three-dimensional** [CLT<sup>+</sup>22]. **threshold** [HMBB21]. **Thresholds** [RS21]. **throughout** [SGSD<sup>+</sup>22]. **throughput** [BBGM20, WZCK20]. **Tibetan** [DLC<sup>+</sup>22, XTJW21]. **Tidal** [YOXC23, BD22, HSBC20, PBP<sup>+</sup>23, PNT<sup>+</sup>21, RWMP<sup>+</sup>23, SVBT20, SWK<sup>+</sup>23, WLS21, XWL<sup>+</sup>21, ZvBZ<sup>+</sup>20]. **tidal-flat** [BD22]. **Tidally** [CSC<sup>+</sup>21, FHR<sup>+</sup>21]. **tides** [ZSZ<sup>+</sup>22]. **Tight** [HJWP24, XKP<sup>+</sup>22]. **Time** [CBN21, FIH<sup>+</sup>20, LABM20, Phi20, Phi21, TRS<sup>+</sup>20, BHA<sup>+</sup>22, FWvA<sup>+</sup>21, FHMK20, FR23, FMT<sup>+</sup>20, GWS<sup>+</sup>21, HRK<sup>+</sup>22, LvBS<sup>+</sup>22, LHD<sup>+</sup>20, MO23, MKD22, QS21, RCMA21, SDL22, SGM<sup>+</sup>22, WDG<sup>+</sup>21]. **Time-series** [CBN21, FIH<sup>+</sup>20, LABM20, WDG<sup>+</sup>21]. **Time-varying** [Phi20, Phi21]. **times** [EAF<sup>+</sup>22, RTK23]. **timing** [BBM21, SJJ<sup>+</sup>21]. **Tipping** [CBPNA22]. **tissue** [SWS<sup>+</sup>22]. **TN** [FBV23]. **TOC** [Ano20-50, Ano20-51, Ano20-52, Ano20-53, Ano20-54, Ano20-55, Ano20-56, Ano20-57, Ano20-58, Ano20-59, Ano20-60, Ano20-61, Ano21-41, Ano21-42, Ano21-43, Ano21-44, Ano21-45, Ano21-46, Ano21-47, Ano21-48, Ano21-49, Ano21-50, Ano21-51, Ano21-56, Ano21-52, Ano22-44, Ano22-45, Ano22-46, Ano22-47, Ano22-48, Ano22-49, Ano22-50, Ano22-51, Ano22-52, Ano22-53, Ano22-54, Ano22-55, Ano22d, Ano22-56, Ano23-37, Ano23-38, Ano23-39, Ano23-40, Ano23-41, Ano23-42, Ano23-43, Ano23-44, Ano23-45, Ano23-46, Ano23-47, Ano23-48, Ano24j, Ano24k, Ano24l]. **Tolerance** [RBD22, EFP<sup>+</sup>21, SSL22, ZZCD23, vHHP<sup>+</sup>22]. **tolerant** [CTM<sup>+</sup>21]. **tomography** [IKN<sup>+</sup>21, MMLPRHCG22]. **tool** [ZLL<sup>+</sup>24]. **top** [BMA<sup>+</sup>20, BD22, GÖA<sup>+</sup>23, LLBC20, RS20]. **top-down** [BMA<sup>+</sup>20, BD22, GÖA<sup>+</sup>23, LLBC20, RS20]. **topology** [GRJ20]. **total** [DSY20, MCS<sup>+</sup>23, MGGRR<sup>+</sup>21, QFM<sup>+</sup>21, XYL<sup>+</sup>23]. **toxic** [BMGK22, LBvE23, SKB<sup>+</sup>22, ZJ22b]. **toxicity** [BH21, BK20, RD23]. **toxigenic** [MBB<sup>+</sup>20]. **toxin** [WOT<sup>+</sup>23]. **TP** [FBV23]. **Trace** [WOMWR20, BBA<sup>+</sup>23, DBB<sup>+</sup>21, HKM<sup>+</sup>20, KDZ<sup>+</sup>24, ZLL<sup>+</sup>24]. **Tracing** [CDW<sup>+</sup>24, VCT<sup>+</sup>23, LLC<sup>+</sup>23]. **track** [ZZO<sup>+</sup>21]. **trade** [BH21]. **trade-offs** [BH21]. **trades** [BK20]. **Trait** [VMP<sup>+</sup>21, GRJ20, LEB21, LVZ21, MLB<sup>+</sup>21, MO23, WSZ22a, WSZ22b, vHHP<sup>+</sup>22]. **Trait-based** [VMP<sup>+</sup>21, LEB21, MLB<sup>+</sup>21, WSZ22a, WSZ22b, vHHP<sup>+</sup>22]. **trait-environment** [LVZ21]. **traits** [CZH<sup>+</sup>21, DTPV21, EG20, FRRG<sup>+</sup>21, HMBB21, KHK<sup>+</sup>22, LEB21, OAM<sup>+</sup>22, WOT<sup>+</sup>23]. **trajectories** [MNMJ<sup>+</sup>21, WPO<sup>+</sup>22]. **transcriptional** [CTP21]. **transcriptomics** [MK20]. **transect** [DWS<sup>+</sup>22, JLS<sup>+</sup>20, JSL<sup>+</sup>23, KPS21]. **transfer** [ALH<sup>+</sup>21, HPF<sup>+</sup>23, JYA21, SWZ<sup>+</sup>23, vGDH<sup>+</sup>21]. **transform** [SJH20]. **Transformation** [HOB<sup>+</sup>22, MZXY22, BKMY21, KRM<sup>+</sup>20, ZLW<sup>+</sup>21a]. **transformations** [SEK20]. **transient** [NKH<sup>+</sup>23]. **transition** [BVGQN22, KWS<sup>+</sup>21, SBM<sup>+</sup>21, YGD<sup>+</sup>21]. **Transitioning** [BDE<sup>+</sup>22]. **transitions** [FDF<sup>+</sup>21]. **transparency** [BJS23a, DLC<sup>+</sup>22, KLO23]. **transplanted** [MGP<sup>+</sup>21]. **transport** [BGAD<sup>+</sup>22, FHR<sup>+</sup>21, FGO<sup>+</sup>20,

GLN<sup>+20</sup>, GLN<sup>+21</sup>, GPDA<sup>+20</sup>, KPM<sup>+20</sup>, LZG21, MDBI20, MLP21b, MURK20, OBL20, QS21, RPA<sup>+22</sup>, VJS<sup>+20</sup>, WKRL<sup>+23</sup>, XLN21]. **trap** [BH21, DLDF21, GWS<sup>+21</sup>, MTB<sup>+21</sup>]. **Trench** [FUUG<sup>+21</sup>, SML<sup>+21a</sup>]. **trends** [BBMD20, BJG<sup>+22</sup>, DKPS23, GBHF21, LDB<sup>+20</sup>]. **triad** [SSA<sup>+23</sup>]. **tributary** [MBB<sup>+20</sup>]. **Trichodesmium** [EBW<sup>+20</sup>, SdBW<sup>+23</sup>, ZFQ<sup>+20</sup>]. **triggers** [LMS<sup>+21</sup>]. **triple** [LHGJ21]. **tritrophic** [EG20]. **Trophic** [CDH<sup>+21</sup>, MSL21, MBC<sup>+21</sup>, MCYR20, NDP<sup>+24</sup>, PMRG20, WMTJW22, BOC<sup>+21</sup>, CAV<sup>+22</sup>, CUS21, KPL<sup>+20</sup>, LGQ<sup>+21</sup>, MPW<sup>+23</sup>, PMF<sup>+21</sup>, RFB<sup>+22</sup>, RBAC<sup>+20</sup>, SWOR20, SPR22, SSWM20, THVJ23, VGSB23, WWGP21, YvdHC<sup>+20</sup>]. **Tropical** [BYB<sup>+23</sup>, EBK<sup>+20</sup>, ETMD23, FSS<sup>+23</sup>, SMW<sup>+21</sup>, AAB<sup>+22</sup>, ACW<sup>+22</sup>, AHCJ<sup>+20</sup>, BLS<sup>+22</sup>, BPL22, CCFF21, CDH<sup>+21</sup>, CMCC24, CBD<sup>+23</sup>, DBM<sup>+23</sup>, DNA<sup>+22</sup>, FMT<sup>+20</sup>, GCEM<sup>+23</sup>, GLAHH<sup>+23</sup>, KBvdD<sup>+20</sup>, LBG<sup>+22</sup>, LSDA21, MA21, MHdS<sup>+21</sup>, MHVC22, NB20, PBGGRB21, RMW<sup>+21</sup>, SVMM<sup>+22</sup>, SDB<sup>+23</sup>, THVJ23]. **Trough** [GNO22]. **tuna** [OFM<sup>+21</sup>, OLR<sup>+23</sup>]. **tundra** [LMM<sup>+21</sup>, ZSK<sup>+21</sup>]. **tunicate** [ST22]. **Turbidity** [RS20, BRHS20]. **Turbulence** [MBA<sup>+21</sup>, EWF22, FIM<sup>+22</sup>, GFG<sup>+22</sup>, TGE<sup>+21</sup>]. **turbulent** [LXC<sup>+21a</sup>]. **Turnover** [GB21, BGM<sup>+21</sup>, KBB<sup>+22</sup>, LD22, PKV20, SB22]. **turtle** [JHBB22]. **twilight** [BO20, KCT23]. **Two** [AHCJ22, CTM<sup>+21</sup>, ACW<sup>+22</sup>, BCL<sup>+22</sup>, CB21a, HTLP23, HOB<sup>+22</sup>, LHMR23, MLC<sup>+21</sup>, MSG<sup>+22</sup>, SPBK21, WRHR22, WAPC20]. **type** [dSNIB22]. **types** [CGGC<sup>+21</sup>, HPCH24, KKA22, ZLG<sup>+23</sup>]. **typhoon** [SYT<sup>+21</sup>, TNK<sup>+22</sup>]. **typhoon-induced** [SYT<sup>+21</sup>, TNK<sup>+22</sup>]. **typhoons** [LLC<sup>+23</sup>]. **Typical** [QS21].

**U.S** [MMF<sup>+21</sup>]. **U.S.** [HM20, MSJ21]. **U.S.A** [HSD<sup>+20</sup>]. **U.S.A.** [HTLP23, YJB<sup>+20</sup>]. **Ubatuba** [PLLM21]. **UCYN** [GFW<sup>+20</sup>]. **UCYN-A** [GFW<sup>+20</sup>]. **ultraviolet** [PC21, YG23, ZFQ<sup>+20</sup>]. **uncertain** [FM21]. **uncertainties** [MBD<sup>+22</sup>, RST<sup>+21</sup>]. **Uncertainty** [CSD<sup>+24</sup>]. **uncharacterized** [CBB<sup>+22</sup>]. **uncultured** [LOW<sup>+20</sup>]. **Under-ice** [HS21, OBL20, SGL<sup>+23</sup>, KFHS24]. **underappreciated** [ZXZ<sup>+23</sup>]. **underestimated** [PKV20]. **underlies** [YvdHC<sup>+20</sup>]. **underlying** [BWB<sup>+22</sup>, CBB<sup>+22</sup>, HPF<sup>+23</sup>]. **Understanding** [BPG<sup>+22</sup>, KHK<sup>+22</sup>, MMLPRHCG22, ALG<sup>+23</sup>, MVBG20, SBD<sup>+21</sup>]. **underwater** [FIH<sup>+20</sup>, HZS21, KAC<sup>+23</sup>]. **undescribed** [KKP<sup>+21</sup>]. **undisturbed** [EFC<sup>+23</sup>]. **Unexpected** [BHSL21, MKP<sup>+23</sup>, dOKC<sup>+21</sup>]. **unicellular** [DCK<sup>+22</sup>, LTLH22, MK20]. **unique** [CYZZ<sup>+20</sup>, SRM23]. **United** [BCTH20, CCA<sup>+21</sup>, DRA<sup>+23</sup>, FBK<sup>+22</sup>, GGR24]. **Universal** [LEB21]. **Unlocking** [RCH<sup>+20</sup>]. **unproductive** [BYS<sup>+23</sup>]. **Unraveling** [JLW<sup>+23</sup>]. **unvegetated** [SSEO21]. **upgrades** [TCS21]. **upland** [BGM<sup>+22</sup>]. **upper** [BM22, BMB22, ORRMD<sup>+21</sup>, PGB24]. **Uptake** [FSH<sup>+23</sup>, ARBvS<sup>+21</sup>, BRB<sup>+20</sup>, BDL<sup>+21</sup>, CDA<sup>+20</sup>, GDB20, HANW21, HCS<sup>+21</sup>, KP20, LLMM<sup>+23</sup>, LD22, MBH<sup>+23</sup>, MUGL20, MAD<sup>+22</sup>, MSB<sup>+22</sup>, MDIY23, RCH<sup>+20</sup>, SSR<sup>+23</sup>, WM20, SB22]. **upwelling**

[BVGQN22, CMB<sup>+21</sup>, FBR<sup>+23</sup>, HSP<sup>+20</sup>, IÁSNCR21, KLO23, KDV<sup>+23</sup>, LLC<sup>+23</sup>, MXL<sup>+21</sup>, REF<sup>+21</sup>, SBL<sup>+21</sup>, SLZ<sup>+21b</sup>]. **upwelling-driven** [BVGQN22]. **urban** [TBH<sup>+22</sup>]. **urbanization** [IYW<sup>+22</sup>]. **urchin** [OSR20, SH22]. **urea** [SHE<sup>+21</sup>, SBB<sup>+21</sup>]. **urea-derived** [SHE<sup>+21</sup>]. **USA** [DP22, LZG21, VMT<sup>+24</sup>]. **Use** [LvBS<sup>+22</sup>, BCTH20, BSB<sup>+20</sup>, BMS<sup>+22</sup>, FDHS20, GZX<sup>+22</sup>, HPCH24, IFU<sup>+20</sup>, MO23, MGI<sup>+22</sup>, RTM<sup>+20</sup>, SBB<sup>+21</sup>, VCT<sup>+23</sup>]. **use/land** [MGI<sup>+22</sup>]. **uses** [SML21b]. **Using** [FMT<sup>+20</sup>, GF21, BGAD<sup>+22</sup>, CDW<sup>+24</sup>, CZK<sup>+23</sup>, DFJ22, DMS<sup>+21</sup>, FHR<sup>+21</sup>, FHMK20, IKN<sup>+21</sup>, KFHS24, LZG21, MGWS23, RPA<sup>+22</sup>, SJH20, TVB<sup>+21</sup>, VMP<sup>+21</sup>, WMTJW22, WDS<sup>+23</sup>]. **usual** [AAC<sup>+21</sup>]. **utility** [RWL<sup>+24</sup>]. **utilization** [BAD<sup>+21</sup>, LD22, MBLA<sup>+21</sup>, PDK<sup>+23</sup>, RCH<sup>+20</sup>, SB20].

**Val** [PSE<sup>+20</sup>]. **Validation** [LZG21]. **valuable** [ZR23]. **Vanda** [SSP<sup>+20</sup>]. **Variability** [AR20, DRA<sup>+23</sup>, KPG<sup>+23</sup>, TKS<sup>+20</sup>, ASL<sup>+24</sup>, BTK<sup>+21</sup>, BBH<sup>+20</sup>, CCB<sup>+20</sup>, CMCC24, CHS<sup>+20</sup>, CP22, DvOH<sup>+20</sup>, DLDF21, DAD<sup>+21</sup>, FJP<sup>+21</sup>, HBG<sup>+22</sup>, HMP<sup>+21</sup>, JLW<sup>+23</sup>, KX22, KOR<sup>+20</sup>, KDV<sup>+23</sup>, LZD<sup>+23</sup>, LHD<sup>+20</sup>, LMSN23, MMF<sup>+21</sup>, MHP<sup>+23</sup>, MDIY23, PW22, PMRG20, PFB<sup>+22</sup>, PSK21, RHA<sup>+23</sup>, RKBT<sup>+23</sup>, SBM<sup>+21</sup>, SML<sup>+21a</sup>, SSL22, SMP21, SMKS22, SWK<sup>+23</sup>, SSCE20, VVMJ23, XDQ<sup>+22</sup>]. **variable** [BM22, BJG<sup>+22</sup>, GSP<sup>+23</sup>, RBD22, SSL22]. **variables** [CSD<sup>+24</sup>]. **Variation** [HHMH22, KKA22, Ano21c, BGM<sup>+22</sup>, CGRGP<sup>+21</sup>, DMM<sup>+21</sup>, DKW<sup>+21</sup>, Edm21a, Edm21b, GGHBS<sup>+20</sup>, HLH<sup>+23</sup>, HZC<sup>+24</sup>, LLSQ24, LHS<sup>+20</sup>, LRRP20, MTP<sup>+23</sup>, MV22a, MV22b, MRH<sup>+23</sup>, MHVC22, OSR20, PGEB22, RPKC22, SPR22, hTRH20, WRWPG19, ZZB<sup>+20</sup>]. **variations** [DHNH22, IJSC20, KTWGT20, SMNT22, WZCK20]. **varies** [GCW<sup>+23</sup>, LLBC20, RVS<sup>+22</sup>]. **vary** [SZA<sup>+21</sup>]. **varying** [Phi20, Phi21]. **vegetated** [EJRRC<sup>+23</sup>]. **Vegetation** [ZvBZ<sup>+20</sup>, JvKvT<sup>+20</sup>, PGB24, SVBT20, VMT<sup>+20</sup>]. **vehicle** [LDG<sup>+21</sup>]. **velocities** [EAF<sup>+22</sup>]. **velocity** [GLN<sup>+20</sup>, LCMG<sup>+20</sup>]. **vent** [ASL<sup>+24</sup>, MGP<sup>+21</sup>]. **ventilation** [KdED<sup>+20</sup>]. **vents** [CTM<sup>+21</sup>]. **Vertical** [BBM21, BO20, CYPRG<sup>+23</sup>, SSP<sup>+20</sup>, BJS23a, BBGM20, GLN<sup>+21</sup>, GNO22, GK22, HPP<sup>+21</sup>, LLBC20, MEQBV20, MO23, WF22, WO21, WSZ22a, WSZ22b, WKRL<sup>+23</sup>]. **Very** [WXK<sup>+22</sup>, CTH<sup>+20</sup>]. **via** [BPG<sup>+22</sup>, GGLH<sup>+22</sup>, SCC<sup>+21</sup>]. **viability** [GLAHH<sup>+23</sup>]. **viral** [SML<sup>+21a</sup>]. **virginica** [MDWT<sup>+22</sup>, WSB<sup>+20</sup>]. **virus** [HPF<sup>+23</sup>, TVB<sup>+21</sup>, XKP<sup>+22</sup>]. **virus-to-copepod** [TVB<sup>+21</sup>]. **viruses** [MLS<sup>+21</sup>]. **Visual** [LAFV23, BBM21, LN21]. **Vital** [Edm21b]. **volcanic** [GRJ<sup>+22</sup>, MHVC22]. **volume** [GGR24, TION23]. **volumes** [HDD<sup>+22</sup>]. **vs** [BFW<sup>+22</sup>, CPB<sup>+21</sup>, LLBC20, SSL22, WTvD<sup>+22</sup>]. **Vulnerability** [LRM21].

**WA** [MVBG20]. **Wadden** [HDD<sup>+22</sup>]. **Warming** [BMB22, BDMGH<sup>+23</sup>, OJUN23, RLL<sup>+21</sup>, SVC<sup>+22</sup>, ARB<sup>+22</sup>, BTK<sup>+21</sup>, DNB<sup>+20</sup>, DMCW23, FLH<sup>+23</sup>, MLP21b, ONH<sup>+20</sup>, RBD22, RGW<sup>+23</sup>, SBH23, SIP21, SMP21,

SSEO21, SGM<sup>+21</sup>, VKB<sup>+22</sup>, WWB<sup>+20</sup>, dJGCS23, vdPMF<sup>+21</sup>]. **wastewater** [BHSL21]. **wasting** [ARB<sup>+22</sup>]. **Water** [DLC<sup>+22</sup>, DBFC24, JvKvT<sup>+20</sup>, LWC<sup>+24</sup>, MHVC22, SSS<sup>+24</sup>, VLP<sup>+21</sup>, ACW<sup>+22</sup>, AWB<sup>+23</sup>, BSGA21, BM22, BMB22, BRB<sup>+20</sup>, BCTH20, BGG<sup>+20</sup>, BFW<sup>+22</sup>, CBB<sup>+22</sup>, CCB<sup>+20</sup>, CSC<sup>+21</sup>, DAN<sup>+22</sup>, DKPS23, EBK<sup>+20</sup>, FBK<sup>+22</sup>, FBRG23, GGS<sup>+21</sup>, GWS<sup>+21</sup>, GBHF21, GR24, GMI<sup>+21</sup>, GKW<sup>+20</sup>, GKW<sup>+21</sup>, HSB<sup>+20</sup>, HMB<sup>+22</sup>, HSP<sup>+20</sup>, IOS24, LLC<sup>+23</sup>, LHS<sup>+21</sup>, LDS<sup>+20</sup>, LBG<sup>+22</sup>, LZM<sup>+21</sup>, MBA<sup>+21</sup>, MFM<sup>+21</sup>, MACC24, MLC<sup>+21</sup>, MNMJ<sup>+21</sup>, PHB<sup>+22</sup>, PSY<sup>+22</sup>, RCMA21, SJH20, SPBK21, SGGB21, SWK<sup>+23</sup>, SWS<sup>+22</sup>, SGSD<sup>+22</sup>, SGK<sup>+21</sup>, TEK<sup>+21</sup>, TZF<sup>+22</sup>, TRS<sup>+20</sup>, XLN21, ZZO<sup>+21</sup>, vGDH<sup>+21</sup>, SMP21]. **water-column** [PSY<sup>+22</sup>]. **water-level** [FBK<sup>+22</sup>]. **water-quality** [PHB<sup>+22</sup>]. **waterbodies** [BCTH20, OBL20]. **waterflea** [ZJ22a]. **waters** [AHCJ<sup>+20</sup>, AFM23, CLGH23, CKCB<sup>+23</sup>, CLD<sup>+23</sup>, CPBJR<sup>+21</sup>, FBRG23, FWDY20, GPK<sup>+21</sup>, IJSC20, JLW<sup>+23</sup>, KTH<sup>+21</sup>, LSW<sup>+20a</sup>, LvBS<sup>+22</sup>, LZD<sup>+23</sup>, LMS<sup>+21</sup>, MCS<sup>+23</sup>, MKD22, SSM<sup>+21a</sup>, SSP<sup>+20</sup>, THVJ23, TCP<sup>+22</sup>, TMM<sup>+20</sup>, YML<sup>+21</sup>, vLWV<sup>+20</sup>]. **Watershed** [JSPS24, MBH<sup>+23</sup>]. **watersheds** [BSF<sup>+21</sup>, PGEB22]. **Wave** [SN22, GLN<sup>+20</sup>, MXL<sup>+21</sup>, MIR<sup>+22</sup>, SRN<sup>+21</sup>, VGvdB<sup>+21</sup>, ZLN21]. **wave-current** [SN22]. **wave-forcing** [SRN<sup>+21</sup>]. **wave-powered** [MXL<sup>+21</sup>]. **wavelet** [SJH20]. **waves** [EJRR<sup>+23</sup>, FWDY20, FGO<sup>+20</sup>, GLN<sup>+21</sup>, GFG<sup>+22</sup>, PRS<sup>+20</sup>, SRV<sup>+20</sup>]. **Weak** [LMM<sup>+21</sup>, WMRL22]. **weather** [dCLO<sup>+23</sup>]. **weathering** [PYY<sup>+20</sup>, ZPK<sup>+22</sup>]. **web** [BHR<sup>+23</sup>, BOC<sup>+21</sup>, CDH<sup>+21</sup>, CGL<sup>+21</sup>, EG20, FSM<sup>+21</sup>, FLW<sup>+21</sup>, GGS<sup>+21</sup>, IFU<sup>+20</sup>, JSPS24, LCM<sup>+22</sup>, MMF<sup>+21</sup>, MLC<sup>+21</sup>, PSNS22, SWC<sup>+23</sup>, VCT<sup>+23</sup>, WRC<sup>+21</sup>, YAP<sup>+22</sup>]. **webs** [BR22, CDH<sup>+21</sup>, CESS21, FWT<sup>+20</sup>, GM22, KPL<sup>+20</sup>, LTQS<sup>+21</sup>, LCHB22, LEB21, WHZ<sup>+21</sup>]. **wedge** [WLK<sup>+21</sup>]. **weight** [BGM<sup>+21</sup>]. **well** [BD22]. **were** [SVM<sup>+22</sup>]. **West** [BBL<sup>+21</sup>, CFC<sup>+20</sup>, NGSS23, SGSF20]. **Western** [MN20, CCA<sup>+21</sup>, CWF<sup>+22</sup>, FIH<sup>+20</sup>, HBG<sup>+22</sup>, IKN<sup>+21</sup>, JSL<sup>+23</sup>, JWA<sup>vD</sup><sup>+22</sup>, KB<sup>vdD</sup><sup>+20</sup>, KSH<sup>+23</sup>, LEK<sup>+22</sup>, LNC<sup>+23</sup>, MSG<sup>+22</sup>, SOO<sup>+21</sup>, SBW<sup>+20</sup>, SSR<sup>+23</sup>, WM20, XYZ<sup>+21</sup>, YWZZ20, ZZO<sup>+21</sup>, BFE<sup>+20</sup>, BRB<sup>+22</sup>, LLK<sup>+22</sup>]. **wet** [YAE<sup>+23</sup>]. **wetland** [LRM21, NEB<sup>+22</sup>, VJS<sup>+20</sup>, WHZ<sup>+21</sup>]. **wetlands** [PYY<sup>+20</sup>, ZJW<sup>+22</sup>, ZSZ<sup>+22</sup>]. **Where** [CHS<sup>+20</sup>]. **while** [AFH<sup>+21</sup>]. **Whole** [SPBK21, PBC21]. **Whole-lake** [SPBK21]. **wide** [KHCG<sup>+22</sup>, SORGC<sup>+21</sup>]. **widespread** [LCS<sup>+20</sup>, OMM21, VSB<sup>+23</sup>]. **width** [SGM<sup>+22</sup>]. **Wind** [FBRG23, dSNIB22, HPP<sup>+21</sup>, ILPL20, MAG<sup>+22</sup>, SLZ<sup>+21b</sup>, SCM22, TKM<sup>+22</sup>]. **Wind-driven** [FBRG23, HPP<sup>+21</sup>, SLZ<sup>+21b</sup>]. **wind-induced** [SCM22]. **windows** [OJUN23]. **winds** [RHM<sup>+21</sup>, SLJ<sup>+22</sup>, ZSZ<sup>+22</sup>]. **Winter** [CB21a, AAC<sup>+21</sup>, GB23, HS21, JH<sup>vL</sup><sup>+23</sup>, KPG<sup>+23</sup>, KTH<sup>+21</sup>, MBH<sup>+23</sup>, PCJ<sup>+21</sup>, SIP21, SO23, YWLY20]. **wintertime** [APB<sup>+23</sup>]. **within** [BBH<sup>+20</sup>, BR22, CCF21, CCC<sup>+21</sup>, EWGP22, GLB<sup>+22</sup>, HZC<sup>+24</sup>, HDD<sup>+22</sup>, LTH21, MFM<sup>+21</sup>, MKP<sup>+23</sup>, RBAC<sup>+20</sup>, YGD<sup>+21</sup>, ZLIP20]. **within-lake** [BR22]. **wooden** [HMM<sup>+22</sup>]. **world** [ZZCD23]. **worldwide** [QFM<sup>+21</sup>]. **would** [SVBT20].

**X** [IKN<sup>+</sup>21]. **X-ray** [IKN<sup>+</sup>21].

**Yakutia** [HABL<sup>+</sup>21]. **year** [EDC24, FR23, SO23]. **year-long** [EDC24]. **years** [FJP<sup>+</sup>21, HSB<sup>+</sup>20, MFM<sup>+</sup>21]. **Yellow** [MLL<sup>+</sup>21]. **yield** [BMCS23, RKBT<sup>+</sup>23]. **yields** [APB<sup>+</sup>23]. **Yucatan** [BFCC<sup>+</sup>21]. **Yukon** [CM21].

**Zealand** [LNR<sup>+</sup>20, YWZ<sup>+</sup>21]. **Zehr** [MBD<sup>+</sup>23]. **zinc** [KMV<sup>+</sup>20]. **zinc/cobalt** [KMV<sup>+</sup>20]. **Zn** [KMV<sup>+</sup>20, KMM<sup>+</sup>22, LSL<sup>+</sup>20]. **Zn/Co** [KMM<sup>+</sup>22]. **zone** [AVS<sup>+</sup>22, BBM21, BYB<sup>+</sup>23, BO20, BZK<sup>+</sup>22, DNA<sup>+</sup>22, EBK<sup>+</sup>20, KCT23, LRM21, MSL21, PLLM21, QBJG21, SMW<sup>+</sup>21, SWB<sup>+</sup>20, SCB<sup>+</sup>20, THL<sup>+</sup>21, VMP<sup>+</sup>21, WCC20, YGD<sup>+</sup>21]. **zones** [CCK<sup>+</sup>21, CBB<sup>+</sup>22, KWS<sup>+</sup>21, LZM<sup>+</sup>21, MTP<sup>+</sup>23, WRA<sup>+</sup>23]. **zoobenthic** [BD22, HZC<sup>+</sup>24]. **Zooglider** [WO21]. **Zooglider-measured** [WO21]. **zooplankter** [ONH<sup>+</sup>20]. **Zooplankton** [DVL<sup>+</sup>23, KHB22, CDH<sup>+</sup>21, CBN21, DMS<sup>+</sup>21, ETG21, GBC<sup>+</sup>20, HCB<sup>+</sup>22, HS21, KLG<sup>+</sup>23, KGG<sup>+</sup>23, LWS<sup>+</sup>22, LTJ<sup>+</sup>20, LDB<sup>+</sup>20, MVP<sup>+</sup>20, MWV22, MO23, MSB<sup>+</sup>20, MN20, PGE22, PPB<sup>+</sup>21, SO23, SWC<sup>+</sup>23, TGE<sup>+</sup>21, TSX<sup>+</sup>23, THS21, VKK<sup>+</sup>21, WO21, YAP<sup>+</sup>22, ZJ22b, ZZCD23]. **Zooplankton-derived** [DVL<sup>+</sup>23]. **Zostera** [GGs<sup>+</sup>21, SIP21].

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- [CMB<sup>+</sup>21] Ivia Closset, Heather M. McNair, Mark A. Brzezinski, Jeffrey W. Krause, Kimberlee Thamatrakoln, and Janice L. Jones. Diatom response to alterations in upwelling and nutrient dynamics associated with climate forcing in the California Current System. *Limnology and Oceanography*, 65(3):1578–1593, April 2021. CODEN LIOCAH. ISSN 0024-3590.

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