

# A Complete Bibliography of Publications in *Limnology and Oceanography Letters*

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10 April 2024  
Version 1.10

## Title word cross-reference

<sup>14</sup> [SYM+23]. <sup>2</sup> [AHL+21, BHBT23, CSEP+18, FRVD18, HBN+22, LR18, MCS18, RRSL+19, VSB+20, ZPRT23]. <sup>275--295</sup> [SYM+23]. <sup>4</sup> [CSEP+18, DH21, ZPRT23]. : [LSH+22, OWT+23]. Δ [SYM+23].

10 [Ano22]. 10<sup>o</sup> [LSH+22]. 14C [MBB+21].

33-yr [CP18].

5 [HFKBW21].

7 [Ano22].

A.M [Ano22]. **abiotic** [HC20, LHMF20]. **absorption** [FKG+22]. **absorption-based** [FKG+22]. **abundance** [HSCA+23, RBI+23]. **abundances** [VMF21]. **abundant** [VCL+20]. **abyssal** [MHSD22]. **access**

[HDPEF23]. **Acclimation** [MYS<sup>+</sup>23, LKB<sup>+</sup>22]. **accounting** [MSM<sup>+</sup>17]. **Accumulation** [CAO22, PLB<sup>+</sup>17, STS<sup>+</sup>17]. **accuracy** [WLB<sup>+</sup>20]. **acid** [HLAW23]. **acidification** [GES19, MF23, NDRL18, UMDWC<sup>+</sup>21, ZZD<sup>+</sup>23]. **across** [ARG<sup>+</sup>19, ASV<sup>+</sup>21, CDC<sup>+</sup>21, CSW<sup>+</sup>20, CTC<sup>+</sup>20, HPS<sup>+</sup>18, HSCA<sup>+</sup>23, HSH18, KOLD<sup>+</sup>21, LSH<sup>+</sup>22, OAL<sup>+</sup>19, RBI<sup>+</sup>23, SBAPS20, SGSdGB17, TFHK18, TSB<sup>+</sup>22]. **act** [FBDH18]. **actively** [SFT<sup>+</sup>17]. **activity** [DLT<sup>+</sup>19]. **acute** [KHB<sup>+</sup>23]. **adapt** [BIF20]. **adaptability** [BGG<sup>+</sup>23]. **adaptations** [DDF<sup>+</sup>23]. **Addition** [CRP<sup>+</sup>18]. **address** [HDPEF23]. **Addressing** [MSM<sup>+</sup>17, CHFF22]. **adenosine** [HFKBW21]. **adenosine-5'-triphosphate** [HFKBW21]. **Adirondack** [WCP23]. **adsorb** [DBVB20]. **advances** [FBV<sup>+</sup>20]. **aeolian** [RMV<sup>+</sup>18]. **aerobic** [CAO22]. **affect** [SMP19]. **affected** [CBF17, SMSS19]. **afforestation** [Kri17]. **after** [AOPP21]. **age** [DDH18, Sme21, KHS<sup>+</sup>21]. **aged** [BB17]. **aggregate** [PZC<sup>+</sup>17]. **aggregates** [LWP22]. **aggregation** [GK22]. **air** [BHBT23]. **Al** [ZKG<sup>+</sup>22]. **Al-Wajh** [ZKG<sup>+</sup>22]. **Alaskan** [MCS18]. **algae** [FKS20, GRLS<sup>+</sup>23, OJ22, QRF<sup>+</sup>18]. **algal** [BCP18, Lit23, RTK<sup>+</sup>18, XSQ<sup>+</sup>23]. **alkaline** [DLT<sup>+</sup>19]. **Alkalinity** [PEC<sup>+</sup>23, CDC<sup>+</sup>21, SFT<sup>+</sup>21]. **ALOHA** [HFKBW21]. **along** [Ano22, CK18, MFS22, OTP23]. **also** [RHN<sup>+</sup>23]. **alter** [JWSD22]. **altered** [JEN<sup>+</sup>20]. **alters** [MF23, SMC20, UMDWC<sup>+</sup>21, dCCS21]. **Always** [Hop22]. **Amazon** [CSEP<sup>+</sup>18, STS<sup>+</sup>17, WSN<sup>+</sup>18]. **Amazonian** [CDC<sup>+</sup>21, STS<sup>+</sup>17]. **American** [BSH<sup>+</sup>20]. **amidst** [MD23]. **among** [CSW<sup>+</sup>20, HLAW23, RTK<sup>+</sup>18]. **among-lake** [RTK<sup>+</sup>18]. **amplified** [RWRH16, WSN<sup>+</sup>18]. **amplifies** [TSB<sup>+</sup>22]. **Anaerobic** [LHL23]. **analoga** [HGS20]. **analysis** [BCP18, HAWH19, MPB<sup>+</sup>23]. **annual** [PEC<sup>+</sup>23]. **anoxia** [HMLC21]. **anoxic** [BRK<sup>+</sup>22, ZPRT23]. **answers** [GD22]. **Antarctic** [DDF<sup>+</sup>23, GRLS<sup>+</sup>23, KHS<sup>+</sup>21]. **Antarctica** [CDG<sup>+</sup>22]. **antecedent** [AGM<sup>+</sup>23]. **Anthropogenic** [RH18, MCGK22]. **antioxidant** [MB22]. **application** [THV23]. **approach** [FKG<sup>+</sup>22, SdG18]. **approaches** [MBR23]. **Aquatic** [BWK<sup>+</sup>23, ARG<sup>+</sup>19, BB17, CK18, CAO22, GKR<sup>+</sup>23, GBH20, HPS<sup>+</sup>18, JB22, KBB<sup>+</sup>21, LGGF<sup>+</sup>23, MPB<sup>+</sup>23, MIK18, MKKS17, RCA<sup>+</sup>21, Sor16, TFHK18, THV23, TFF23, VSB<sup>+</sup>20, WJS18, WWFP20, YWH<sup>+</sup>17]. **archive** [AE23, MPB<sup>+</sup>23]. **Arctic** [BIF20, Hop22, MCS18, MAE<sup>+</sup>18, OAH<sup>+</sup>23, OAL<sup>+</sup>19, SGB<sup>+</sup>17, divMT<sup>+</sup>21]. **Area** [CMR<sup>+</sup>21, CS22, VH23]. **areas** [MSSC19]. **arid** [RMV<sup>+</sup>18]. **arsenic** [HMIB22]. **arsenic-containing** [HMIB22]. **article** [Clo23]. **ascidian** [KCPGE21]. **asked** [GD22]. **ASLO** [GD22]. **assemblage** [WEW23]. **assemblages** [LCL22]. **associated** [HBB<sup>+</sup>16, UMDWC<sup>+</sup>21]. **Atlantic** [Bri22, CJ20]. **atmospheric** [ZTZL21]. **attenuation** [HFKBW21]. **Augmentation** [Sme21]. **austral** [YAML<sup>+</sup>23]. **Australia** [CMR<sup>+</sup>21]. **autotrophic** [SAE<sup>+</sup>22]. **autotrophy** [MAE<sup>+</sup>18]. **availability** [FKS20, KCBG<sup>+</sup>23, KLA<sup>+</sup>17, MLPM21]. **Avenues** [GKR<sup>+</sup>23].

**B** [LSH<sup>+</sup>22]. **Ba** [GYB<sup>+</sup>23]. **Ba/Ca** [GYB<sup>+</sup>23]. **bacteria**

[HBB<sup>+</sup>16, VCL<sup>+</sup>20, WGZ<sup>+</sup>19]. **bacterial** [BWAJ19, LFS19, RBvdK<sup>+</sup>18].  
**Baikal** [MOW<sup>+</sup>22]. **balance** [CHB<sup>+</sup>22, MAE<sup>+</sup>18]. **bank** [WEW23].  
**Barotropic** [CDG<sup>+</sup>22]. **Barrier** [CMR<sup>+</sup>21]. **basal** [RCA<sup>+</sup>21]. **based**  
[ARK<sup>+</sup>23, ASV<sup>+</sup>21, Cae21, FKG<sup>+</sup>22, Lit23, MPB<sup>+</sup>23]. **basin**  
[SSV<sup>+</sup>22, CSEP<sup>+</sup>18]. **Bay** [CDP<sup>+</sup>18, VRF<sup>+</sup>19, MCGK22, WLC20, XSQ<sup>+</sup>23].  
**bays** [BFC<sup>+</sup>23]. **be** [CBBE23, DGS20, RWRH16]. **beam** [HFKBW21].  
**becoming** [LHMF20]. **bed** [CEM<sup>+</sup>22, CCT<sup>+</sup>20]. **behavior**  
[CMS<sup>+</sup>21, LFH<sup>+</sup>23, NLC20, RJS<sup>+</sup>19]. **behind** [MSSC19]. **bend** [SH17].  
**benthic**  
[ARG<sup>+</sup>19, BMH<sup>+</sup>23, CCT<sup>+</sup>20, FOE20, FKS20, HLAW23, MOW<sup>+</sup>22, RBI<sup>+</sup>23].  
**benthos** [WBK17]. **Bering** [CLTK<sup>+</sup>22]. **best** [TFF23]. **between**  
[CS22, CK18, HDC<sup>+</sup>17, LLA<sup>+</sup>22, RWI<sup>+</sup>21, SKDR21, THV23, YWH<sup>+</sup>17].  
**Beyond** [TFHK18, WWFP20]. **Bifurcate** [CQSZ22]. **binding** [HBB<sup>+</sup>16].  
**biodiversity** [AGM<sup>+</sup>23, BMH<sup>+</sup>23]. **Biogeochemical**  
[MIK18, RWI<sup>+</sup>21, LHL23, SW23, VRB<sup>+</sup>23]. **bioinvasion** [GHHKY<sup>+</sup>17].  
**biological** [CBF17]. **biomass**  
[CLTK<sup>+</sup>22, FKG<sup>+</sup>22, KSL<sup>+</sup>18, RTK<sup>+</sup>18, SF23]. **biomineral** [MHSD22].  
**Biophysical** [XSQ<sup>+</sup>23]. **bivalve** [BGHC20, NDRL18]. **black**  
[CSEP<sup>+</sup>18, WJS18, YCS<sup>+</sup>21]. **bleaching** [CDP<sup>+</sup>18, MD23]. **bloom**  
[Bri22, ZJL<sup>+</sup>22]. **Blooms** [RHN<sup>+</sup>23, BCP18, HBB<sup>+</sup>16, Lit23, XSQ<sup>+</sup>23]. **blue**  
[CSH<sup>+</sup>22, MSM<sup>+</sup>17, WLC20, SFT<sup>+</sup>21]. **bluefin** [HCA<sup>+</sup>23]. **bodies**  
[LSE23]. **Body** [KOLD<sup>+</sup>21, RBI<sup>+</sup>23, SH17]. **body-size** [RBI<sup>+</sup>23]. **boreal**  
[CRP<sup>+</sup>18, OAH<sup>+</sup>23, SGSdGB17, dWCJB<sup>+</sup>18]. **both** [BMH<sup>+</sup>23, OWT<sup>+</sup>23].  
**Bottom** [FOE20]. **bottoms** [BPL<sup>+</sup>19]. **branconii** [DDF<sup>+</sup>23]. **break** [SH17].  
**breathing** [VMM<sup>+</sup>22]. **browning**  
[BMH<sup>+</sup>23, Kri17, OAH<sup>+</sup>23, PAMB23, SKDR21]. **budget** [SGB<sup>+</sup>17].  
**budgets** [STS<sup>+</sup>17]. **burial** [BPL<sup>+</sup>19, CDMH18].

**C** [HAWH19, LSH<sup>+</sup>22, SYM<sup>+</sup>23, SdG18]. **C-DOC** [SYM<sup>+</sup>23]. **Ca** [GYB<sup>+</sup>23].  
**calcification** [CDP<sup>+</sup>18]. **calcium** [MSM<sup>+</sup>17]. **call** [TFF23]. **Callinectes**  
[WLC20]. **Can** [STW17, CBBE23, FBDH18, FRVD18, KBB<sup>+</sup>21, KHS<sup>+</sup>21,  
NDRL18, RWRH16, SBJ<sup>+</sup>23]. **Canadian** [ASV<sup>+</sup>21]. **Candidate** [VCL<sup>+</sup>20].  
**Capacity** [BIF20, DBG21]. **captures** [CMS<sup>+</sup>21]. **Carbon**  
[CDP<sup>+</sup>21, RDFS18, STS<sup>+</sup>17, WCA<sup>+</sup>18, AOPP21, BWK<sup>+</sup>23, BPL<sup>+</sup>19, BB17,  
CBF17, CDMH18, CSH<sup>+</sup>22, DBG21, DBdG<sup>+</sup>18, DRS18, DDH18, GES19,  
GRK<sup>+</sup>17, HFKBW21, HSH18, JZKS18, LFS19, MSM<sup>+</sup>17, MJC18, MYS<sup>+</sup>23,  
MIK18, OAL<sup>+</sup>19, PZC<sup>+</sup>17, RH18, SLC18, SMT<sup>+</sup>17, Sme21, SKDR21, SF23,  
TFHK18, TCP18, VLD<sup>+</sup>20, VBK<sup>+</sup>19, VCL<sup>+</sup>20, WJS18, WCP23, WHW<sup>+</sup>20,  
WML<sup>+</sup>19, dWCJB<sup>+</sup>18, dCCS21, SFT<sup>+</sup>21]. **carbon-concentrating**  
[VBK<sup>+</sup>19]. **carbonate** [MSM<sup>+</sup>17, YHD23]. **career** [GD22, HDPEF23].  
**Caribbean** [DCPN20]. **cascades** [McI22]. **Cascading** [MBB<sup>+</sup>23]. **case**  
[CHFF22, CCT<sup>+</sup>20, HDC<sup>+</sup>17, LLA<sup>+</sup>22]. **catalysts** [VCL<sup>+</sup>20]. **Catch**  
[KSL<sup>+</sup>18]. **catchment** [BWK<sup>+</sup>23]. **catchments** [DDH18, OJ22]. **caused**  
[McI22]. **Causes** [SSV<sup>+</sup>22, BMH<sup>+</sup>23]. **CDOM** [SYM<sup>+</sup>23]. **cellular** [MB22].

**CENA392** [DDF<sup>+</sup>23]. **Centennial** [Kri17]. **Centennial-long** [Kri17]. **central** [BSSB23]. **centric** [SNAA16]. **century** [DAS<sup>+</sup>23]. **CH** [CSEP<sup>+</sup>18, DH21, ZPRT23]. **Chaetoceros** [PMP<sup>+</sup>20]. **chain** [AAG<sup>+</sup>20]. **challenges** [SBJ<sup>+</sup>23, SDC21]. **change** [BMH<sup>+</sup>23, CC21, DBD18, DSA<sup>+</sup>23, LLA<sup>+</sup>22, VMM<sup>+</sup>22, WDT<sup>+</sup>22, dIVMT<sup>+</sup>21]. **change-related** [DSA<sup>+</sup>23]. **Changes** [MHSD22, CBF17]. **changing** [Lit23, MGG<sup>+</sup>23, SNAA16, YHD23]. **characteristics** [CSM<sup>+</sup>21]. **characterization** [ASV<sup>+</sup>21]. **characterizing** [MIK18]. **chemical** [QPC<sup>+</sup>16, dCCS21]. **chemistry** [YHD23]. **chemoheterotrophic** [WGZ<sup>+</sup>19]. **Chesapeake** [MCGK22, XSQ<sup>+</sup>23]. **chimneys** [dWCJB<sup>+</sup>18]. **chloride** [DHM17, DRKM23, GAFS23, MAR23]. **Chlorophyll** [OJ22, CP18, PE22]. **choanoflagellates** [MKKS17]. **Christi** [WLC20]. **ciliates** [LLA<sup>+</sup>22]. **circulation** [CJ20, MCS18]. **circumpolar** [WRC<sup>+</sup>18]. **city** [KCBG<sup>+</sup>23]. **Clarifying** [TFF23]. **clarity** [RWRH16, TFF23, VH23, WLB<sup>+</sup>20]. **classes** [RBI<sup>+</sup>23]. **Classifying** [BSSB23, RPM<sup>+</sup>23]. **clear** [CSEP<sup>+</sup>18]. **clearance** [HC20]. **Climate** [RWRH16, SMSS19, TSB<sup>+</sup>22, BPL<sup>+</sup>19, CC21, DSA<sup>+</sup>23, HDC<sup>+</sup>17, HLH23, Lit23, LLA<sup>+</sup>22, SFW<sup>+</sup>23, SMS20, VMM<sup>+</sup>22, WDT<sup>+</sup>22, YHD23]. **Climate-induced** [RWRH16]. **climatic** [OAL<sup>+</sup>19]. **cloud** [MPB<sup>+</sup>23]. **cloud-based** [MPB<sup>+</sup>23]. **CO** [VSB<sup>+</sup>20, BLZ<sup>+</sup>22, AHL<sup>+</sup>21, BHBT23, CSEP<sup>+</sup>18, LR18, MCS18, RRSL<sup>+</sup>19, ZPRT23]. **co-limitation** [BLZ<sup>+</sup>22]. **Coastal** [BGG<sup>+</sup>23, BH23, MF23, MHD21, MCAD23, OTP23, OAH<sup>+</sup>23, PZB<sup>+</sup>23, WBK17, WML<sup>+</sup>19]. **coastline** [CHLD18]. **coccolithophorid** [GES19]. **cold** [BPL<sup>+</sup>19, RHN<sup>+</sup>23, SW20]. **cold-water** [SW20]. **colocated** [MOW<sup>+</sup>22]. **Colombia** [SSV<sup>+</sup>22]. **colonization** [DCPN20]. **color** [CBBE23, CP18]. **column** [JBG<sup>+</sup>21, PZC<sup>+</sup>17]. **commercially** [BSH<sup>+</sup>20]. **common** [BIF20]. **communities** [GAFS23, MAR23, MWL<sup>+</sup>23, MBB<sup>+</sup>23, OTP23, UMDWC<sup>+</sup>21, YSN<sup>+</sup>23, ZZD<sup>+</sup>23]. **community** [AFS<sup>+</sup>23, AGLD23, BWAJ19, CBH<sup>+</sup>22, CRP<sup>+</sup>18, FBV<sup>+</sup>20, KHB<sup>+</sup>23, MOW<sup>+</sup>22, SGSdGB17, WML<sup>+</sup>19]. **community-level** [AFS<sup>+</sup>23]. **comparisons** [YJJ<sup>+</sup>23]. **compensation** [LCL22]. **complexity** [HPS<sup>+</sup>18]. **component** [LOS<sup>+</sup>20, SFT<sup>+</sup>21, STS<sup>+</sup>17]. **composition** [BWAJ19, LRCG20, NDRL18]. **compositionally** [QRF<sup>+</sup>18]. **concentrating** [VBK<sup>+</sup>19]. **concentration** [MAR23]. **concentrations** [BGHC20, HGS20, HMLC21, ICH<sup>+</sup>23]. **conceptual** [HDC<sup>+</sup>17, YJJ<sup>+</sup>23]. **concise** [Hot20]. **conditions** [OAL<sup>+</sup>19]. **confirms** [SNAA16]. **connected** [HJS23]. **connections** [LGGF<sup>+</sup>23]. **connectivity** [KWRC21, RWI<sup>+</sup>21]. **consensus** [BHBT23]. **Consequences** [KSD<sup>+</sup>19, LHL23, SSV<sup>+</sup>22, WLL22, YBZ<sup>+</sup>23]. **conservation** [MSSC19]. **considerations** [Hei23]. **consistent** [HSCA<sup>+</sup>23]. **Constraining** [HFKBW21]. **constrains** [BSYD18, JZKS18]. **constraint** [Cae21]. **constraints** [MGG<sup>+</sup>23, MCGK22]. **consumer** [RCA<sup>+</sup>21]. **consumption** [DH21, FSA21, PCS<sup>+</sup>20]. **containing** [HMIB22]. **contamination** [ARK<sup>+</sup>23, SW20, WLC20]. **content** [HLAW23, MHSD22, WGZ<sup>+</sup>19]. **contents** [SAE<sup>+</sup>22]. **conterminous**

[CSM<sup>+21</sup>, KWRC21, RPM<sup>+23</sup>, WRT<sup>+22</sup>]. **Continental** [JBG<sup>+21</sup>].  
**continua** [OTP23]. **continuum** [Ano22, CDC<sup>+21</sup>, CK18, MFS22].  
**Contrasting** [PAMB23, SAE<sup>+22</sup>]. **contributes** [PEC<sup>+23</sup>]. **contribution**  
 [KCPGE21, PZB<sup>+23</sup>, SGB<sup>+17</sup>]. **Contributions** [GRK<sup>+17</sup>, MB22]. **control**  
 [CDMH18, KML<sup>+23</sup>, RWI<sup>+21</sup>, XSQ<sup>+23</sup>]. **controls**  
 [LR18, TAC<sup>+21</sup>, TFHK18]. **coordinated** [HSCA<sup>+23</sup>]. **Copepod**  
 [HAWH19, RGK22]. **copepods** [AHM21]. **Copiotrophic** [HBB<sup>+16</sup>]. **Coral**  
 [MD23, CTC<sup>+20</sup>, JWSD22]. **corals** [QRF<sup>+18</sup>]. **Corpus** [WLC20].  
**corresponding** [TFF23]. **Corrigendum** [Ano22]. **cost** [Inm22]. **coupling**  
 [KOLD<sup>+21</sup>]. **covariance** [ARG<sup>+19</sup>, JB22]. **cover** [CLB<sup>+21</sup>, ZTZL21].  
**covered** [CDG<sup>+22</sup>, DBdG<sup>+18</sup>, MCS18]. **crab** [HGS20]. **crabs**  
 [NLC20, WLC20]. **creek** [CDC<sup>+21</sup>, RWI<sup>+21</sup>]. **Cross** [ARK<sup>+23</sup>].  
**Cross-contamination** [ARK<sup>+23</sup>]. **Crossing** [SFT<sup>+17</sup>]. **cryptic** [MGJ<sup>+18</sup>].  
**cultural** [KSD<sup>+19</sup>]. **Current**  
 [CRH<sup>+23</sup>, AE23, CEM<sup>+22</sup>, DRS18, BSH<sup>+20</sup>, DBG21]. **current-driven**  
 [CEM<sup>+22</sup>]. **cyanobacteria**  
 [CLTK<sup>+22</sup>, HHSL20, LKB<sup>+22</sup>, OWT<sup>+23</sup>, CAH<sup>+20</sup>]. **cyanobacterium**  
 [DDF<sup>+23</sup>]. **cyanotoxin** [SW23]. **cycle** [FOE20, PZC<sup>+17</sup>, SW23, TCP18].  
**cycles** [SF23]. **cycling** [MSM<sup>+17</sup>, SLC18, SdG18, dWCJB<sup>+18</sup>]. **cyclone**  
 [CHLD18]. **cylindrus** [JB20].

**Daily** [WRT<sup>+22</sup>, SFW<sup>+23</sup>, SF23]. **Daphnia** [WEW23]. **darkening**  
 [OAH<sup>+23</sup>]. **data** [CMR<sup>+21</sup>, Clo22, DAS<sup>+23</sup>, VRB<sup>+23</sup>, WLB<sup>+20</sup>, CSM<sup>+21</sup>].  
**database** [MBB<sup>+21</sup>, RPM<sup>+23</sup>]. **dataset** [MOW<sup>+22</sup>]. **day** [DAS<sup>+23</sup>, SJL23].  
**debris** [BFS20]. **decadal** [DBRB20, SFW<sup>+23</sup>]. **decadal-scale** [DBRB20].  
**decade** [GBH20, WCA<sup>+18</sup>]. **Deciphering** [PE22]. **decomposition** [FT22].  
**Decoupled** [GRLS<sup>+23</sup>]. **Deep**  
 [RRKLU<sup>+20</sup>, CMS<sup>+21</sup>, PEC<sup>+23</sup>, RDFD18, WRT<sup>+22</sup>]. **deep-sea** [CMS<sup>+21</sup>].  
**degradation** [CK18, SSV<sup>+22</sup>]. **deliver** [RBI<sup>+23</sup>]. **denitrification**  
 [CHFF22, FOE20, MH19]. **Density** [PMP<sup>+20</sup>]. **Density-dependent**  
 [PMP<sup>+20</sup>]. **dependent** [PMP<sup>+20</sup>]. **depletion** [AHL<sup>+21</sup>, LHL23, YBZ<sup>+23</sup>].  
**Depth** [WH23, CS22, CTC<sup>+20</sup>, MHSD22]. **describe** [Bri22]. **desert**  
 [DAS<sup>+23</sup>, KSL<sup>+18</sup>]. **despite** [AHL<sup>+21</sup>, FSA21]. **determine**  
 [NDRL18, VMM<sup>+22</sup>]. **determined** [MCGK22]. **determines**  
 [BOM<sup>+23</sup>, MYS<sup>+23</sup>, SMS20]. **determining** [QPC<sup>+16</sup>]. **diatom**  
 [PMP<sup>+20</sup>, SNAA16]. **diatoms**  
 [CCT<sup>+20</sup>, GK22, GRLS<sup>+23</sup>, KHS<sup>+21</sup>, RGK22]. **Diazotrophy** [CRH<sup>+23</sup>].  
**Diel** [CTC<sup>+20</sup>]. **diet** [LRCG20]. **differ** [HLH23]. **differences** [HDC<sup>+17</sup>].  
**different** [ASV<sup>+21</sup>, KOLD<sup>+21</sup>]. **Differential** [MWL<sup>+23</sup>, CBCD19].  
**differentially** [SMP19]. **differing** [DBRB20]. **differs** [LLA<sup>+22</sup>].  
**dimensional** [AGM<sup>+23</sup>]. **dimethylsulfide** [GDP<sup>+23</sup>]. **dioxide**  
 [DBdG<sup>+18</sup>, VLD<sup>+20</sup>, WCA<sup>+18</sup>]. **Direct** [PZB<sup>+23</sup>, CHLD18, DTSC17].  
**directions** [BSH<sup>+20</sup>, GBH20]. **discharge**  
 [DSA<sup>+23</sup>, GYB<sup>+23</sup>, LL19, SBJ<sup>+23</sup>]. **Discovery** [VRF<sup>+19</sup>]. **dismutase**

[CRILC<sup>+</sup>22]. **dispersal** [MKKS17]. **dispersants** [QPC<sup>+</sup>16]. **Dissolved** [FKS20, WJS18, ASV<sup>+</sup>21, BOM<sup>+</sup>23, CK18, CAO22, FBDH18, HPS<sup>+</sup>18, RH18, SKDR21, WCP23, VS18]. **distinct** [QRF<sup>+</sup>18]. **distribution** [RBI<sup>+</sup>23]. **distributions** [Bri22, SH17]. **disturbance** [McI22]. **disturbances** [AGM<sup>+</sup>23]. **Dityrosine** [PCS<sup>+</sup>20]. **Diurnal** [DLT<sup>+</sup>19, BGG<sup>+</sup>23, HBN<sup>+</sup>22]. **Divergent** [ASW<sup>+</sup>22]. **Diverse** [HMIB22, SJL23, CTC<sup>+</sup>20, MYS<sup>+</sup>23]. **diversification** [dCCS21]. **diversity** [CSW<sup>+</sup>20, HSCA<sup>+</sup>23, OTP23, UMDWC<sup>+</sup>21]. **DNA** [CMS<sup>+</sup>21]. **Do** [CCT<sup>+</sup>20, DBVB20, MSSC19]. **DOC** [CPW22, SYM<sup>+</sup>23]. **Documenting** [MCAD23]. **Does** [WEW23, LWP22]. **DOM** [STD<sup>+</sup>18, VS18]. **domains** [RRSL<sup>+</sup>19]. **dominance** [WRC<sup>+</sup>18]. **dominate** [CCT<sup>+</sup>20]. **downstream** [KSL<sup>+</sup>18, LL19, TON<sup>+</sup>20]. **Drainage** [BMH<sup>+</sup>23]. **Drainage-induced** [BMH<sup>+</sup>23]. **drains** [MHD21]. **drier** [OAL<sup>+</sup>19]. **drive** [GRSL<sup>+</sup>23, MAE<sup>+</sup>18, RRSL<sup>+</sup>19]. **driven** [BRK<sup>+</sup>22, CP18, CEM<sup>+</sup>22, HLAW23]. **driver** [NLC20]. **drivers** [BKM<sup>+</sup>23, YBZ<sup>+</sup>23]. **drives** [HSCA<sup>+</sup>23, LFS19, MCS18, MHD21, PLB<sup>+</sup>17]. **driving** [SMS20]. **dual** [VMM<sup>+</sup>22]. **dual-breathing** [VMM<sup>+</sup>22]. **due** [WRC<sup>+</sup>18]. **duration** [LHL23, PLB<sup>+</sup>17]. **during** [DBdG<sup>+</sup>18, HBB<sup>+</sup>16, HMLC21, MHSD22, YAML<sup>+</sup>23, ZTZL21, ZMB<sup>+</sup>21]. **Dynamic** [STD<sup>+</sup>18, BH23]. **dynamical** [DDH18]. **dynamics** [CDMH18, CAH<sup>+</sup>20, CRP<sup>+</sup>18, DBdG<sup>+</sup>18, FBV<sup>+</sup>20, MFHMD20, RDFD18, RCA<sup>+</sup>21, SBAPS20, WEW23, WWFP20, ZKG<sup>+</sup>22].

**earliest** [VBK<sup>+</sup>19]. **Early** [GD22, CBCD19, HDPEF23, ORA<sup>+</sup>22]. **Earthquake** [YSN<sup>+</sup>23]. **East** [YSN<sup>+</sup>23, CDG<sup>+</sup>22]. **eastern** [RBvdK<sup>+</sup>18]. **eat** [ORA<sup>+</sup>22]. **ebullition** [ZTZL21]. **ecological** [CMS<sup>+</sup>21, KHS<sup>+</sup>21, dlVMT<sup>+</sup>21]. **ecology** [Hei23, HDSH<sup>+</sup>22]. **ecosystem** [ARG<sup>+</sup>19, BCI17, DTSC17, HMLC21, KSD<sup>+</sup>19, MH19, OTP23, SFT<sup>+</sup>21, VSB<sup>+</sup>20, VCL<sup>+</sup>20, VRB<sup>+</sup>23]. **ecosystems** [CHB<sup>+</sup>22, GKR<sup>+</sup>23, MIK18, MCAD23, SAE<sup>+</sup>22, SBAPS20, TCP18, THV23, TFF23, WJS18, WWFP20]. **ecozones** [ASV<sup>+</sup>21]. **ectotherms** [VMM<sup>+</sup>22]. **eddy** [ARG<sup>+</sup>19, JB22]. **editors** [GD22]. **eDNA** [CBH<sup>+</sup>22]. **effect** [Kri17, SW20, YHD23, ZZD<sup>+</sup>23]. **effective** [MBR23]. **Effects** [AGLD23, DBG21, GAFS23, HHSL20, HGS20, KCBG<sup>+</sup>23, AAG<sup>+</sup>20, BSH<sup>+</sup>20, BPL<sup>+</sup>19, CBCD19, CRP<sup>+</sup>18, CHB<sup>+</sup>22, FKS20, FT22, JB20, KHB<sup>+</sup>23, MAR23, MWL<sup>+</sup>23, MBB<sup>+</sup>23, OWT<sup>+</sup>23, CP18]. **efficiency** [CBF17, ZMB<sup>+</sup>21]. **efflux** [LR18]. **egg** [WEW23]. **either** [RWRH16]. **element** [NDRL18]. **Elemental** [WGZ<sup>+</sup>19, MB22]. **elephant** [RJS<sup>+</sup>19]. **Elevated** [AOPP21]. **elevation** [CLB<sup>+</sup>21]. **elusive** [LSER23]. **Embryos** [VMM<sup>+</sup>22]. **emerge** [OJ22]. **Emergent** [KHS<sup>+</sup>19, VSB<sup>+</sup>20]. **Emerita** [HGS20]. **emission** [VLD<sup>+</sup>20]. **emissions** [BRK<sup>+</sup>22, DBD18, WCA<sup>+</sup>18]. **encounter** [LFS19]. **end** [Hop22]. **endosymbiotic** [CLTK<sup>+</sup>22]. **energy** [KOLD<sup>+</sup>21]. **Engineered** [FBDH18]. **enhance** [SFT<sup>+</sup>17]. **enrichment** [CPW22, CHB<sup>+</sup>22, QRF<sup>+</sup>18, YHD23]. **environment**

[AOPP21, CEM<sup>+</sup>22, DKZD16, MKKS17]. **Environmental** [DDF<sup>+</sup>23, GKR<sup>+</sup>23, CMS<sup>+</sup>21, dIVMT<sup>+</sup>21]. **environmentally** [HGS20]. **environments** [CSEP<sup>+</sup>18, HPS<sup>+</sup>18]. **Ephemeral** [PZC<sup>+</sup>17]. **epifluorescence** [BFS20]. **epiphytes** [JEN<sup>+</sup>20]. **episodic** [MHSD22]. **equilibration** [BHBT23]. **erosion** [DBG21]. **estimate** [WCA<sup>+</sup>18]. **estimated** [WRT<sup>+</sup>22]. **estimates** [DRS18, FKG<sup>+</sup>22, SGB<sup>+</sup>17, YGSB22]. **Estimating** [SF23]. **estimation** [DTSC17]. **estuaries** [CQSZ22, YHD23]. **estuarine** [AOPP21, AAG<sup>+</sup>20, MF23]. **estuary** [WHW<sup>+</sup>20]. **eukaryote** [AGLD23]. **eukaryotic** [KLA<sup>+</sup>17, WL19]. **eutrophic** [CDMH18, CAH<sup>+</sup>20, DH21, RDFD18, WHW<sup>+</sup>20]. **evaluate** [BHBT23]. **evasion** [RRSL<sup>+</sup>19]. **event** [CDP<sup>+</sup>18]. **events** [AOPP21, BCI17, MD23, TSB<sup>+</sup>22]. **Evidence** [LCL22, RMV<sup>+</sup>18, WEW23]. **evolution** [CQSZ22]. **evolved** [VBK<sup>+</sup>19]. **exceeds** [DH21]. **exchange** [BH23, CSH<sup>+</sup>22]. **exchangeable** [SMT<sup>+</sup>17]. **exometabolomics** [STD<sup>+</sup>18]. **exopolymers** [QPC<sup>+</sup>16]. **expedition** [KHS<sup>+</sup>21]. **experiment** [FT22, SNAA16]. **experiments** [CP18, GKR<sup>+</sup>23, HSCA<sup>+</sup>23, HMLC21]. **explain** [RTK<sup>+</sup>18]. **exploit** [SFT<sup>+</sup>17]. **Exploring** [THV23]. **export** [CBF17, KCBG<sup>+</sup>23, LFS19]. **exposure** [HHSL20]. **Extent** [BKM<sup>+</sup>23]. **extracted** [CBBE23]. **Extreme** [BCI17, Bri22, HPS<sup>+</sup>18]. **exudates** [QRF<sup>+</sup>18].

**face** [DBD18]. **factors** [KML<sup>+</sup>23, SMS20]. **fate** [JZKS18, OAL<sup>+</sup>19, QPC<sup>+</sup>16, RCCGP20]. **fates** [SW23]. **fatty** [HLAW23]. **fed** [HLH23, WBK17]. **Feeding** [NLC20, FSA21, JWSD22]. **fertilizer** [SABR22]. **fibers** [HGS20]. **fields** [BH23]. **figures** [MBR23]. **filling** [DAS<sup>+</sup>23]. **Finding** [MKKS17, YWH<sup>+</sup>17]. **finds** [ASV<sup>+</sup>21]. **finfish** [BSH<sup>+</sup>20]. **fire** [LSER23]. **fire-bodies** [LSER23]. **fish** [CC21, CBH<sup>+</sup>22, GHK<sup>+</sup>17, HOP20, LRCG20, ORA<sup>+</sup>22, TSB<sup>+</sup>22]. **fishes** [CMS<sup>+</sup>21]. **Five** [KML<sup>+</sup>23]. **fixation** [Ano22, CRILC<sup>+</sup>22, FRVD18, MFS22, SGB<sup>+</sup>17]. **fixing** [CLTK<sup>+</sup>22, KSL<sup>+</sup>18, OWT<sup>+</sup>23]. **fjord** [BRK<sup>+</sup>22]. **flagellates** [SAE<sup>+</sup>22]. **flats** [YSN<sup>+</sup>23]. **floats** [SF23]. **Flood** [McI22]. **floodplain** [RWI<sup>+</sup>21, STS<sup>+</sup>17]. **Florida** [SABR22, VRF<sup>+</sup>19]. **Flow** [dCCS21]. **fluctuations** [MFHMD20]. **fluorescence** [STD<sup>+</sup>18]. **Fluorescent** [QRF<sup>+</sup>18, PCS<sup>+</sup>20]. **flushes** [CSH<sup>+</sup>22]. **flux** [RDFD18]. **fluxes** [BWK<sup>+</sup>23, CJ20, MF23, MHSD22, RH18, RRKLU<sup>+</sup>20, SMC20, SW23, TFHK18]. **following** [CDP<sup>+</sup>18, YSN<sup>+</sup>23]. **food** [AHM21, AAG<sup>+</sup>20, BB17, HDSH<sup>+</sup>22, MOW<sup>+</sup>22]. **food-web** [HDSH<sup>+</sup>22]. **footprints** [PZC<sup>+</sup>17]. **Foraging** [CSC20, LFH<sup>+</sup>23, RJS<sup>+</sup>19, SFT<sup>+</sup>17]. **foraminifera** [GYB<sup>+</sup>23]. **forcing** [BFC<sup>+</sup>23, ZKG<sup>+</sup>22]. **forests** [OAH<sup>+</sup>23]. **formation** [DHM17, PCS<sup>+</sup>20, PMP<sup>+</sup>20]. **forward** [SBJ<sup>+</sup>23]. **found** [HPS<sup>+</sup>18]. **Founding** [SDC21]. **fractal** [SH17]. **Fragilariopsis** [JB20]. **framework** [BHBT23, Lit23, YJJ<sup>+</sup>23]. **frequency** [CAH<sup>+</sup>20, TBB<sup>+</sup>23, TSB<sup>+</sup>22]. **fresh** [SBAPS20]. **freshwater**

[Ano22, AFS<sup>+23</sup>, AGLD23, ASV<sup>+21</sup>, BSYD18, BSSB23, CJ20, DBVB20, FT22, FBV<sup>+20</sup>, GAFS23, KML<sup>+23</sup>, KCBG<sup>+23</sup>, LKB<sup>+22</sup>, MJC18, MFS22, MAR23, MCAD23, MWL<sup>+23</sup>, MBB<sup>+23</sup>, OAH<sup>+23</sup>, RMV<sup>+18</sup>, SJL23, SBAPS20, ZPRT23]. **freshwater-marine** [Ano22]. **freshwaters** [LLA<sup>+22</sup>, WRC<sup>+18</sup>]. **fringing** [CHLD18]. **fronts** [RJS<sup>+19</sup>, SFT<sup>+17</sup>]. **Fulweiler** [Ano22]. **function** [OTP23, VSB<sup>+20</sup>]. **future** [BSH<sup>+20</sup>, CRH<sup>+23</sup>, DBG21, GKR<sup>+23</sup>, WDT<sup>+22</sup>].

**Ganges** [HBN<sup>+22</sup>]. **gas** [DBD18]. **gastropod** [FSA21]. **gelatinous** [LSER23]. **generates** [SKDR21]. **genome** [DDF<sup>+23</sup>]. **geography** [SLC18]. **geospatial** [VRB<sup>+23</sup>]. **giant** [HCA<sup>+23</sup>, SBM<sup>+18</sup>]. **global** [DBD18, FOE20, LHMF20, LSER23, MYVD22, SGB<sup>+17</sup>, Sme21, TCP18, VMF21, YJJ<sup>+23</sup>, GDP<sup>+23</sup>]. **go** [SBJ<sup>+23</sup>]. **goals** [TFF23]. **gradient** [LSH<sup>+22</sup>, OAL<sup>+19</sup>]. **grandis** [KCPGE21]. **Grazer** [GK22]. **Grazer-induced** [GK22]. **grazers** [CP18, CPW22]. **grazing** [GRLS<sup>+23</sup>, RGK22]. **Great** [CMR<sup>+21</sup>, YSN<sup>+23</sup>]. **greater** [HMLC21]. **green** [GRLS<sup>+23</sup>]. **Greenhouse** [DBD18]. **gross** [AHL<sup>+21</sup>, PEC<sup>+23</sup>]. **Groundwater** [LGGF<sup>+23</sup>, CDC<sup>+21</sup>, DSA<sup>+23</sup>, GYB<sup>+23</sup>, HLH23, SFW<sup>+23</sup>]. **groundwater-** [HLH23]. **groundwater-creek-shelf** [CDC<sup>+21</sup>]. **Groundwater-stream** [LGGF<sup>+23</sup>]. **growth** [AHM21, DBVB20, FKS20, GRLS<sup>+23</sup>, HFKBW21, JB20, LSH<sup>+22</sup>, LKB<sup>+22</sup>, MD23, XSQ<sup>+23</sup>]. **guidance** [LLA<sup>+22</sup>]. **Gulf** [YGSB22, YHD23, ZJL<sup>+22</sup>].

**habitat** [MGG<sup>+23</sup>, MLPM21]. **habitats** [ARG<sup>+19</sup>, CTC<sup>+20</sup>]. **half** [DAS<sup>+23</sup>]. **Halotia** [DDF<sup>+23</sup>]. **hard** [WEW23]. **hard-water** [WEW23]. **hardwater** [PEC<sup>+23</sup>]. **harmful** [Lit23, XSQ<sup>+23</sup>]. **harvested** [BSH<sup>+20</sup>]. **Hawai'i** [CDP<sup>+18</sup>, DSA<sup>+23</sup>]. **Headwater** [LL19, BMH<sup>+23</sup>, HLH23]. **headwaters** [FBDH18]. **heatwave** [TBB<sup>+23</sup>]. **help** [KBB<sup>+21</sup>]. **hemiboreal** [BWK<sup>+23</sup>]. **Herdmania** [KCPGE21]. **Heritage** [CMR<sup>+21</sup>]. **Heroic** [KHS<sup>+21</sup>]. **heterogeneity** [SYM<sup>+23</sup>]. **heterogeneous** [MKKS17]. **heterotrophic** [BOM<sup>+23</sup>]. **heterotrophy** [JZKS18, MAE<sup>+18</sup>]. **Hidden** [MGJ<sup>+18</sup>, Inm22]. **Hiding** [KCPGE21]. **High** [BRK<sup>+22</sup>, CLTK<sup>+22</sup>, CAH<sup>+20</sup>]. **high-frequency** [CAH<sup>+20</sup>]. **higher** [RBvdK<sup>+18</sup>, ZPRT23]. **Highest** [AHL<sup>+21</sup>, VBK<sup>+19</sup>]. **highly** [BH23]. **hinders** [Inm22]. **historic** [WDT<sup>+22</sup>]. **HNLC** [GRLS<sup>+23</sup>]. **holobionts** [PZB<sup>+23</sup>]. **honor** [HDPEF23]. **host** [FRVD18]. **Hot** [BPL<sup>+19</sup>]. **hotspots** [BH23]. **humic** [PCS<sup>+20</sup>]. **humic-like** [PCS<sup>+20</sup>]. **hurricane** [CBCD19]. **hydro** [OAL<sup>+19</sup>]. **hydro-climatic** [OAL<sup>+19</sup>]. **hydroclimatic** [VRB<sup>+23</sup>]. **Hydrologic** [JZKS18, LR18]. **hypolimnetic** [HMLC21]. **Hyporheic** [KSL<sup>+18</sup>]. **hypoxia** [BKM<sup>+23</sup>].

## Ice

[DHM17, PLB<sup>+17</sup>, CDG<sup>+22</sup>, CLB<sup>+21</sup>, DBdG<sup>+18</sup>, KSD<sup>+19</sup>, MCS18, ZTZL21]. **ice-cover** [ZTZL21]. **ice-covered** [CDG<sup>+22</sup>, DBdG<sup>+18</sup>, MCS18].



**Ichthyochory** [GHHKY<sup>+</sup>17]. **ideas** [SBAPS20]. **identifiers** [CSM<sup>+</sup>21].  
**identifying** [GBH20]. **identity** [AGM<sup>+</sup>23]. **imaging** [SBAPS20]. **Impact**  
 [LRD23, ZTZL21, CHLD18, MFHMD20, WEW23]. **Impacts**  
 [HC20, SABR22, CSC20, MCAD23, PAMB23, SJL23, VH23]. **impair**  
 [DBVB20]. **Implications** [MPB<sup>+</sup>23, OAL<sup>+</sup>19]. **importance**  
 [MGJ<sup>+</sup>18, SMS20]. **impoundments** [DBD18]. **improved** [FKG<sup>+</sup>22].  
**Improving** [GBH20]. **inadequate** [WLL22]. **increase**  
 [BPL<sup>+</sup>19, BB21, HAWH19, QRF<sup>+</sup>18]. **increased** [GRLS<sup>+</sup>23]. **increases**  
 [DBRB20, HAWH19, RBvdK<sup>+</sup>18]. **Increasing**  
 [TBB<sup>+</sup>23, WLB<sup>+</sup>20, WRC<sup>+</sup>18, MAR23, MCAD23]. **increasingly**  
 [LHMF20, PCS<sup>+</sup>20]. **independent** [CBBE23, OAL<sup>+</sup>19]. **Indian**  
 [CRH<sup>+</sup>23, LSH<sup>+</sup>22, RBvdK<sup>+</sup>18]. **indicator** [SNAA16]. **indicators** [BCP18].  
**induced** [BMH<sup>+</sup>23, GK22, RWRH16, SMC20]. **inequality** [KBB<sup>+</sup>21].  
**inequities** [HDPEF23]. **influence**  
 [CK18, DKZD16, DTSC17, FOE20, LL19, RCCGP20]. **influences**  
 [BFC<sup>+</sup>23, CBH<sup>+</sup>22, LKB<sup>+</sup>22, RH18]. **information** [KBB<sup>+</sup>21, RBI<sup>+</sup>23].  
**ingested** [BFS20]. **ingestion** [CSC20, LRCG20]. **inhibitory** [FT22]. **inland**  
 [BB17, DRS18, HSH18, KCBG<sup>+</sup>23, MIK18, SW23, SdG18, TCP18].  
**inorganic** [GES19, RH18]. **inputs** [DRS18]. **Insight** [STD<sup>+</sup>18]. **insights**  
 [VSB<sup>+</sup>20]. **intake** [NLC20]. **Integrating** [HDSH<sup>+</sup>22, RBI<sup>+</sup>23]. **integrative**  
 [HSH18, SdG18, YJJ<sup>+</sup>23]. **intensifies** [CHB<sup>+</sup>22]. **interact** [NDRL18].  
**interacting** [FKS20]. **interaction** [ORA<sup>+</sup>22, YWH<sup>+</sup>17]. **Interactions**  
 [CK18, MGJ<sup>+</sup>18, OJ22, RCCGP20, XSQ<sup>+</sup>23]. **Interactive** [JB20, MAR23].  
**interannual** [Bri22, HJS23]. **interface** [TFHK18]. **intermittence** [dCCS21].  
**Internal** [TON<sup>+</sup>20]. **Interpreting** [WLL22]. **intertidal** [CSH<sup>+</sup>22, DDF<sup>+</sup>23].  
**intracellular** [KLA<sup>+</sup>17]. **Introduction** [MCAD23]. **intrusion** [MWL<sup>+</sup>23].  
**invasive** [DBRB20]. **inverse** [WDT<sup>+</sup>22]. **invertebrate** [PZB<sup>+</sup>23, RBI<sup>+</sup>23].  
**invertebrates** [AGM<sup>+</sup>23, HLAW23]. **investigated** [BFS20]. **iron**  
 [ASW<sup>+</sup>22, HBB<sup>+</sup>16, JB20, LWP22, TAC<sup>+</sup>21]. **iron-binding** [HBB<sup>+</sup>16].  
**iron-limited** [ASW<sup>+</sup>22]. **irradiance** [MGG<sup>+</sup>23]. **isolated** [TCP18].  
**isomeric** [HPS<sup>+</sup>18]. **isotopes** [HCA<sup>+</sup>23, OAL<sup>+</sup>19]. **issue** [MCAD23].

**J.T** [Ano22]. **Japan** [YSN<sup>+</sup>23]. **Jerlov** [WH23]. **journal**  
 [Clo23, Sor16, SDC21].

**Kāne'ohe** [CDP<sup>+</sup>18]. **kelp** [SBM<sup>+</sup>18]. **Key** [HDC<sup>+</sup>17, MFHMD20].  
**knowledge** [BSH<sup>+</sup>20].

**L&O** [Sor16, Clo22]. **lacustrine** [SABR22]. **lagoon** [ZKG<sup>+</sup>22]. **LAGOS**  
 [CSM<sup>+</sup>21, KWRC21, RPM<sup>+</sup>23]. **LAGOS-US**  
 [CSM<sup>+</sup>21, KWRC21, RPM<sup>+</sup>23]. **Lagrangian** [XSQ<sup>+</sup>23]. **Lake**  
 [DR23, HSCA<sup>+</sup>23, KWRC21, SKDR21, BCI17, BWAJ19, CS22, CP18,  
 CAH<sup>+</sup>20, CDG<sup>+</sup>22, CLB<sup>+</sup>21, CRP<sup>+</sup>18, DH21, DDH18, GRK<sup>+</sup>17, HHSL20,  
 HLH23, JZKS18, KSD<sup>+</sup>19, Kri17, LRD23, MSSC19, PEC<sup>+</sup>23, RDFD18,

RTK<sup>+18</sup>, SNAA16, SLC18, SMS20, VLD<sup>+20</sup>, VCL<sup>+20</sup>, WLB<sup>+20</sup>, WEW23, WDT<sup>+22</sup>, ZTZL21, ZMB<sup>+21</sup>, AE23, DAS<sup>+23</sup>, DRKM23, MOW<sup>+22</sup>].

**lake-catchments** [DDH18]. **lake-fed** [HLH23]. **lakes** [BPL<sup>+19</sup>, CSM<sup>+21</sup>, DBD18, DBdG<sup>+18</sup>, DHM17, FKS20, HDC<sup>+17</sup>, ICH<sup>+23</sup>, LHL23, LL19, MCS18, MAE<sup>+18</sup>, PLB<sup>+17</sup>, RPM<sup>+23</sup>, RWRH16, SMSS19, STS<sup>+17</sup>, SMP19, STW17, SDHJ23, SGSdGB17, TSB<sup>+22</sup>, VH23, WLB<sup>+20</sup>, WCP23, WRT<sup>+22</sup>, dWCJB<sup>+18</sup>]. **Land** [SH17, DSA<sup>+23</sup>]. **land-use** [DSA<sup>+23</sup>]. **Landsat** [MPB<sup>+23</sup>]. **Landscape** [RRSL<sup>+19</sup>, BWK<sup>+23</sup>, CSW<sup>+20</sup>, KOLD<sup>+21</sup>]. **large** [DBRB20]. **larger** [RPM<sup>+23</sup>]. **lasting** [PZC<sup>+17</sup>]. **late** [CBCD19]. **lateral** [TFHK18]. **latitudes** [RBvdK<sup>+18</sup>]. **launching** [SDC21]. **layers** [PZC<sup>+17</sup>]. **leaf** [dCCS21]. **leakage** [MHD21]. **learning** [WRT<sup>+22</sup>]. **learnt** [WCA<sup>+18</sup>]. **least** [PEC<sup>+23</sup>]. **leave** [PZC<sup>+17</sup>]. **left** [MSSC19]. **legacy** [AAG<sup>+20</sup>]. **lentic** [HSH18]. **lessons** [WCA<sup>+18</sup>]. **lethal** [KHB<sup>+23</sup>]. **Letters** [Sor16, Clo22, SDC21]. **level** [AFS<sup>+23</sup>, BGG<sup>+23</sup>, CQSZ22, CST<sup>+22</sup>, MHD21]. **levels** [SW20]. **leveraging** [WLB<sup>+20</sup>]. **life** [ORA<sup>+22</sup>]. **ligand** [HBB<sup>+16</sup>]. **Light** [MFHMD20, ASW<sup>+22</sup>, FKS20, LSER23]. **light-** [ASW<sup>+22</sup>]. **like** [PCS<sup>+20</sup>, RHN<sup>+23</sup>, RCA<sup>+21</sup>]. **limitation** [BSYD18, BOM<sup>+23</sup>, BLZ<sup>+22</sup>, FKS20]. **limited** [AHM21, ASW<sup>+22</sup>, SMP19]. **limiting** [SKDR21]. **limits** [SDHJ23]. **Limnol** [Ano22]. **limnology** [DAS<sup>+23</sup>, LHMF20, SDC21]. **line** [SFT<sup>+17</sup>]. **linked** [ICH<sup>+23</sup>]. **Linking** [MH19, CLB<sup>+21</sup>, RCA<sup>+21</sup>]. **lipids** [HMB22]. **litter** [dCCS21]. **littoral** [VH23]. **live** [GHHKY<sup>+17</sup>]. **living** [HFKBW21, ZZD<sup>+23</sup>]. **loading** [DRKM23, TON<sup>+20</sup>]. **location** [CSM<sup>+21</sup>]. **LOCUS** [CSM<sup>+21</sup>]. **long** [CAH<sup>+20</sup>, CLB<sup>+21</sup>, CRP<sup>+18</sup>, Kri17, VRB<sup>+23</sup>, WEW23]. **long-read** [DDF<sup>+23</sup>]. **long-term** [CAH<sup>+20</sup>, CLB<sup>+21</sup>, CRP<sup>+18</sup>, VRB<sup>+23</sup>, WEW23]. **loss** [BMH<sup>+23</sup>, KSD<sup>+19</sup>]. **losses** [CLB<sup>+21</sup>, HSCA<sup>+23</sup>]. **lotic** [HSH18]. **Low** [CSW<sup>+20</sup>, LSH<sup>+22</sup>, RRKLU<sup>+20</sup>, SBJ<sup>+23</sup>, WCA<sup>+18</sup>]. **low-order** [WCA<sup>+18</sup>]. **lower** [HBN<sup>+22</sup>, WSN<sup>+18</sup>]. **luminoxyscape** [MGG<sup>+23</sup>].

**macroalgae** [DSA<sup>+23</sup>]. **Macroalgal** [JEN<sup>+20</sup>]. **macrobenthic** [YSN<sup>+23</sup>]. **Macrocystis** [SBM<sup>+18</sup>]. **macroinvertebrate** [MOW<sup>+22</sup>]. **macrophytes** [BB21]. **MacroSheds** [VRB<sup>+23</sup>]. **Magdalena** [SSV<sup>+22</sup>]. **Magnitude** [SGSdGB17, ZJL<sup>+22</sup>]. **main** [NLC20]. **Maine** [ZJL<sup>+22</sup>]. **maintained** [AHL<sup>+21</sup>]. **maintenance** [FSA21]. **major** [AOPP21, CBCD19, Kri17]. **management** [TFF23]. **Mangrove** [SMT<sup>+17</sup>, NLC20, SFT<sup>+21</sup>]. **mangroves** [CDC<sup>+21</sup>]. **many** [CBBE23]. **Marcarelli** [Ano22]. **margin** [JBG<sup>+21</sup>]. **marginal** [SYM<sup>+23</sup>]. **Marine** [RBvdK<sup>+18</sup>, WML<sup>+19</sup>, AHM21, Ano22, BHBT23, BH23, BOM<sup>+23</sup>, CBH<sup>+22</sup>, DSA<sup>+23</sup>, GHHKY<sup>+17</sup>, HC20, HDSH<sup>+22</sup>, HBB<sup>+16</sup>, KLA<sup>+17</sup>, LOS<sup>+20</sup>, LLA<sup>+22</sup>, MFS22, MYVD22, MGJ<sup>+18</sup>, RCCGP20, Sme21, SBAPS20, WGZ<sup>+19</sup>]. **marsh** [CQSZ22, CST<sup>+22</sup>, MWL<sup>+23</sup>, MCGK22, YJJ<sup>+23</sup>]. **marshes** [SJL23]. **mass** [STD<sup>+18</sup>, TSB<sup>+22</sup>]. **masses** [SYM<sup>+23</sup>]. **mat** [KSL<sup>+18</sup>]. **matter** [ASV<sup>+21</sup>, BB17, BWAJ19, BOM<sup>+23</sup>, CK18, CAO22, FBDH18, FKS20, FT22,

HPS<sup>+18</sup>, LOS<sup>+20</sup>, PCS<sup>+20</sup>, VS18, WRC<sup>+18</sup>]. **matters** [dWCJB<sup>+18</sup>].  
**maximum** [CS22, DBRB20]. **meadow** [JB22]. **measured**  
 [ARG<sup>+19</sup>, JB22, SF23]. **measurements** [AE23, CST<sup>+22</sup>, VSB<sup>+20</sup>].  
**measuring** [Hei23, SBJ<sup>+23</sup>]. **mechanisms** [PMP<sup>+20</sup>, VBK<sup>+19</sup>]. **mediates**  
 [McI22]. **meet** [Clo22, MSSC19]. **megaripple** [BH23]. **Mercury** [HCA<sup>+23</sup>].  
**meridional** [CJ20]. **mesocosm** [HSCA<sup>+23</sup>]. **mesocosms** [ZZD<sup>+23</sup>].  
**mesoplastics** [MYVD22]. **mesoscale** [RJS<sup>+19</sup>]. **meta** [HAWH19].  
**meta-analysis** [HAWH19]. **metabolic** [BH23, CHB<sup>+22</sup>, DTSC17].  
**metabolism** [ARG<sup>+19</sup>, HSH18, LGGF<sup>+23</sup>, RCA<sup>+21</sup>]. **metacommunity**  
 [DKZD16]. **metal** [SAE<sup>+22</sup>]. **metallic** [LWP22]. **Methane**  
 [VLD<sup>+20</sup>, BB21, BRK<sup>+22</sup>, DBdG<sup>+18</sup>, HMLC21, MF23, PZB<sup>+23</sup>, WCA<sup>+18</sup>,  
 YAML<sup>+23</sup>, ZTZL21, ZMB<sup>+21</sup>]. **Methanogenesis** [DH21, BWAJ19].  
**method** [MBB<sup>+21</sup>]. **methylmercury** [HCA<sup>+23</sup>]. **metrics**  
 [KWRC21, TFF23]. **Mexico** [YGSB22, YHD23]. **Michigan** [DRKM23].  
**Micro** [RCCGP20, MYVD22]. **micro-** [MYVD22]. **Micro-by-micro**  
 [RCCGP20]. **Microbial** [DCPN20, LWP22, ZMB<sup>+21</sup>, KSL<sup>+18</sup>, MWL<sup>+23</sup>,  
 QPC<sup>+16</sup>, UMDWC<sup>+21</sup>, WSN<sup>+18</sup>, WML<sup>+19</sup>]. **microbiome**  
 [FRVD18, JEN<sup>+20</sup>]. **microbiomes** [MLPM21]. **Microcystin** [SW23].  
**micrometazoans** [RMV<sup>+18</sup>]. **Micromonas** [BIF20]. **microorganisms**  
 [CK18, RCCGP20]. **microparticle** [NLC20]. **Microplastic**  
 [BGHC20, BSH<sup>+20</sup>, HOP20, LRCG20, WLC20, BFS20, HC20, HGS20, SW20].  
**Microplastics**  
 [GBH20, JWSD22, AAG<sup>+20</sup>, DCPN20, LWP22, RCCGP20, YWH<sup>+17</sup>].  
**microscopy** [BFS20]. **migration** [MCGK22, XSQ<sup>+23</sup>]. **mineralization**  
 [KSL<sup>+18</sup>]. **minimum** [JBG<sup>+21</sup>]. **Minnesota** [VH23]. **mismatch**  
 [SKDR21, THV23]. **missing** [YWH<sup>+17</sup>]. **mix** [STW17]. **mixed** [CCT<sup>+20</sup>].  
**mixing** [BRK<sup>+22</sup>, LRD23]. **mixotrophic** [XSQ<sup>+23</sup>]. **mobilization**  
 [WML<sup>+19</sup>]. **model** [DDH18, GDP<sup>+23</sup>, HDC<sup>+17</sup>, ORA<sup>+22</sup>, XSQ<sup>+23</sup>].  
**modeling** [BCP18]. **models** [Cae21, CST<sup>+22</sup>]. **modifications** [DSA<sup>+23</sup>].  
**modify** [HDC<sup>+17</sup>, RJS<sup>+19</sup>]. **modulate** [FRVD18]. **modulating**  
 [MFHMD20]. **module** [CSM<sup>+21</sup>]. **mole** [HGS20]. **molecular**  
 [ASW<sup>+22</sup>, SBAPS20]. **morphology** [BWK<sup>+23</sup>]. **mortality**  
 [HGS20, TSB<sup>+22</sup>]. **most** [dWCJB<sup>+18</sup>]. **mothers** [VMM<sup>+22</sup>]. **Motility**  
 [LFS19]. **motions** [WLL22]. **mountain** [MH19, SMSS19]. **mucus** [Inm22].  
**Mud** [KCBG<sup>+23</sup>]. **multiannual** [WWFP20]. **multifactorial** [GKR<sup>+23</sup>].  
**multiple** [RDFD18, WCP23]. **multiscale** [OJ22]. **mussel** [HC20]. **my**  
 [Clo23].  
**N** [FRVD18, KSL<sup>+18</sup>, OWT<sup>+23</sup>]. **N-fixing** [KSL<sup>+18</sup>, OWT<sup>+23</sup>]. **N-rich**  
 [OWT<sup>+23</sup>]. **naïve** [AGLD23]. **nanoparticles** [CRP<sup>+18</sup>]. **national**  
 [WCA<sup>+18</sup>]. **Native** [DBRB20, DSA<sup>+23</sup>]. **natural**  
 [CRP<sup>+18</sup>, HC20, LSH<sup>+22</sup>, LCL22, RPM<sup>+23</sup>]. **near** [CEM<sup>+22</sup>]. **near-bed**  
 [CEM<sup>+22</sup>]. **need** [Sor16, WWFP20]. **neglected** [BGG<sup>+23</sup>]. **net**  
 [FKG<sup>+22</sup>, SF23, YGSB22]. **network** [AHL<sup>+21</sup>, SdG18]. **networks**

[FBDH18, KWRC21, KHS<sup>+19</sup>, RRSL<sup>+19</sup>]. **Nevada** [MBB<sup>+23</sup>]. **next** [GBH20]. **Nickel** [CRILC<sup>+22</sup>]. **night** [DGS20, Hop22, SJL23]. **Nimrod** [KHS<sup>+21</sup>]. **nitrate** [PLB<sup>+17</sup>]. **Nitrogen** [Ano22, MFS22, SMP19, CRILC<sup>+22</sup>, CLTK<sup>+22</sup>, FOE20, FBDH18, KCBG<sup>+23</sup>, MJC18, MYS<sup>+23</sup>, SGB<sup>+17</sup>, SBM<sup>+18</sup>]. **nitrogen-fixing** [CLTK<sup>+22</sup>]. **nitrous** [JBG<sup>+21</sup>, KCPGE21, MF23]. **No** [MSSC19, CRP<sup>+18</sup>]. **non** [OWT<sup>+23</sup>]. **non-N-fixing** [OWT<sup>+23</sup>]. **Nonlinear** [VH23]. **nonliving** [HFKBW21]. **north** [PLB<sup>+17</sup>, TSB<sup>+22</sup>, BSH<sup>+20</sup>, BFS20, Bri22, HCA<sup>+23</sup>, YBZ<sup>+23</sup>]. **northern** [DBdG<sup>+18</sup>, FKS20, GRK<sup>+17</sup>, ICH<sup>+23</sup>]. **Northwest** [BLZ<sup>+22</sup>]. **northwestern** [YHD23]. **Nostoc** [KSL<sup>+18</sup>]. **novel** [GHK<sup>+17</sup>, VRF<sup>+19</sup>, XSQ<sup>+23</sup>]. **nucleotides** [KLA<sup>+17</sup>]. **Nutrient** [BSYD18, BLZ<sup>+22</sup>, CHB<sup>+22</sup>, BB21, FKS20, Inm22, QRF<sup>+18</sup>, SMP19, TAC<sup>+21</sup>, WLB<sup>+20</sup>]. **nutrient-limited** [SMP19]. **nutrients** [CP18, GAFS23, SKDR21]. **Nutritional** [BB17].

**O** [HBN<sup>+22</sup>, VSB<sup>+20</sup>]. **obscures** [DKZD16]. **observations** [CAH<sup>+20</sup>, RDFD18, RBI<sup>+23</sup>, WCA<sup>+18</sup>]. **occurrence** [BSH<sup>+20</sup>]. **Ocean** [FSA21, MYVD22, NDRL18, UMDWC<sup>+21</sup>, YAML<sup>+23</sup>, ZZD<sup>+23</sup>, BIF20, CBF17, Cae21, CBBE23, CMS<sup>+21</sup>, CHFF22, GES19, HMIB22, LFS19, LSER23, MBB<sup>+21</sup>, MGG<sup>+23</sup>, PCS<sup>+20</sup>, QPC<sup>+16</sup>, RBI<sup>+23</sup>, SAE<sup>+22</sup>, SF23, TAC<sup>+21</sup>, VMF21, YGSB22, ASW<sup>+22</sup>, CRH<sup>+23</sup>, GDP<sup>+23</sup>, HCA<sup>+23</sup>, LSH<sup>+22</sup>, OAH<sup>+23</sup>, RBvdK<sup>+18</sup>]. **oceanic** [MYS<sup>+23</sup>, SMT<sup>+17</sup>, WLL22]. **Oceanogr** [Ano22]. **Oceanography** [SDC21]. **oceans** [RH18]. **off** [CDC<sup>+21</sup>]. **offsets** [VLD<sup>+20</sup>]. **oil** [QPC<sup>+16</sup>]. **oligotrophic** [LSH<sup>+22</sup>, SYM<sup>+23</sup>]. **ongoing** [GES19]. **ontogeny** [NDRL18]. **open** [CMS<sup>+21</sup>, HDPEF23, SAE<sup>+22</sup>, YGSB22, YCS<sup>+21</sup>]. **open-access** [HDPEF23]. **open-ocean** [SAE<sup>+22</sup>, YGSB22]. **order** [WCA<sup>+18</sup>]. **ordinances** [SABR22]. **Ordination** [DKZD16]. **Oregon** [BGHC20]. **Organic** [BWAJ19, LOS<sup>+20</sup>, AOPP21, ASV<sup>+21</sup>, BB17, BB21, BOM<sup>+23</sup>, CDMH18, CK18, CAO22, FBDH18, FKS20, FT22, GES19, GRK<sup>+17</sup>, HPS<sup>+18</sup>, MIK18, PCS<sup>+20</sup>, QRF<sup>+18</sup>, SMT<sup>+17</sup>, SKDR21, VS18, WCP23, WHW<sup>+20</sup>, WRC<sup>+18</sup>]. **organic-matter** [FT22]. **organism** [JWSD22]. **organisms** [GBH20, SW20]. **organo** [LWP22]. **organo-metallic** [LWP22]. **origin** [PE22]. **outwelling** [CDC<sup>+21</sup>, SMT<sup>+17</sup>]. **overgrazing** [DBG21]. **overlooked** [SFT<sup>+21</sup>]. **overturn** [ZMB<sup>+21</sup>]. **overturning** [CJ20]. **oxidation** [YHD23, ZMB<sup>+21</sup>]. **oxide** [JBG<sup>+21</sup>, KCPGE21, MF23]. **Oxygen** [CDMH18, MGG<sup>+23</sup>, BH23, FSA21, JBG<sup>+21</sup>, LHL23, PCS<sup>+20</sup>]. **oxygenation** [BRK<sup>+22</sup>, HMLC21]. **oyster** [UMDWC<sup>+21</sup>].

**P** [LSH<sup>+22</sup>, OWT<sup>+23</sup>]. **Pacific** [HCA<sup>+23</sup>, BFS20, BLZ<sup>+22</sup>, HCA<sup>+23</sup>, HGS20, JBG<sup>+21</sup>, YBZ<sup>+23</sup>]. **Paired** [VSB<sup>+20</sup>]. **partial** [LCL22]. **particle** [CEM<sup>+22</sup>, RRKLU<sup>+20</sup>, XSQ<sup>+23</sup>]. **particles** [DBVB20, HC20, LFS19, MHSD22, RRKLU<sup>+20</sup>]. **Particulate**

[GES19, HFKBW21]. **passage** [GHHKY+17]. **patches** [MKKS17]. **path** [SBJ+23]. **pathways** [KOLD+21]. **pattern** [LGGF+23]. **Patterns** [BFS20, BKM+23, CMS+21, HJS23, RRSL+19]. **pCO** [HBN+22, LR18]. **peer** [GD22]. **perennially** [CDG+22]. **performance** [LLA+22]. **period** [DBdG+18]. **periphyton** [MOW+22, PAMB23]. **permafrost** [WRC+18]. **permeable** [CHFF22]. **persist** [AOPP21]. **persistence** [MD23]. **perspective** [HSH18]. **perspectives** [CRH+23]. **pH** [CTC+20, MKKS17]. **pH-taxis** [MKKS17]. **phenology** [SJM23]. **phosphatase** [DLT+19]. **phosphate** [YBZ+23]. **Phosphonate** [WL19]. **Phosphorus** [BOM+23, KLA+17, ICH+23, KCBG+23, MJC18, OJ22, TON+20]. **photolysis** [GDP+23]. **Photomineralization** [WHW+20]. **photosynthetic** [THV23]. **phyla** [VCL+20]. **Physical** [ZKG+22, CSM+21]. **physiological** [ASW+22]. **Phytoplankton** [MB22, ARK+23, ASW+22, BSVD18, Bri22, BFC+23, CPW22, CRP+18, FKG+22, GRLS+23, HBB+16, Hop22, Inm22, KLA+17, LCL22, MYS+23, MHS22, OTP23, PE22, TAC+21, VBK+19, VMF21, WL19, YCS+21, ZJL+22, ZKG+22]. **picoeukaryote** [BIF20]. **picoeukaryotic** [VMF21]. **picophytoplankton** [LSH+22]. **piece** [YWH+17]. **pipe** [MJC18]. **Pipes** [dWCJB+18]. **plain** [KCPGE21, MGJ+18]. **planktivorous** [LRCG20]. **plankton** [DKZD16, FBV+20, GAFS23, HJS23, MAR23, MGJ+18, MBB+23, MFHMD20, SBAPS20]. **planktonic** [AGLD23, LLA+22]. **plant** [DBVB20]. **Plastic** [DBVB20, CSC20, Sme21, YWH+17, ZZD+23]. **plasticity** [VBK+19]. **Plateau** [SJM23]. **plateaux** [GRLS+23]. **players** [TCP18]. **point** [SW20]. **points** [RWI+21]. **polar** [Hop22, KSL+18]. **pollutant** [AAG+20]. **pollution** [MOW+22, SDHJ23, YWH+17]. **polyrhiza** [DBVB20]. **ponds** [KHS+21, TON+20]. **Pools** [SW23, OAL+19]. **poorly** [Ano22, MFS22]. **population** [FBV+20, KHB+23]. **Pore** [CSH+22, CSEP+18]. **Pore-water** [CSH+22, CSEP+18]. **position** [KOLD+21]. **Potential** [YBZ+23, CSEP+18, DLT+19, FOE20, MCGK22, VCL+20, YHD23]. **potexvirus** [VRF+19]. **Powell** [DAS+23]. **precipitation** [CP18, ICH+23, dWCJB+18]. **precipitation-driven** [CP18]. **predict** [BWAJ19]. **predictability** [AFS+23]. **Predictable** [OTP23, BWK+23]. **predicted** [CC21]. **predicting** [Lit23]. **predictions** [WLB+20]. **predictive** [KHB+23]. **predictor** [GES19]. **predicts** [LHL23]. **Preliminary** [SGB+17]. **presence** [JEN+20]. **present** [DAS+23]. **press** [MWL+23]. **pressure** [ZTZL21]. **prevalence** [HOP20]. **prey** [HCA+23]. **primary** [AHL+21, Cae21, FKG+22, MBB+21, MFHMD20, PEC+23, SMP19, SF23, YGSB22, YWH+17, Hop22]. **priorities** [DBG21]. **problem** [DTSC17]. **process** [Ano22, MFS22, RRSL+19]. **processing** [STD+18, dCCS21]. **Prochlorococcus** [VMF21]. **producers** [YWH+17]. **production** [Cae21, CCT+20, FKG+22, GES19, HBB+16, Hop22, Inm22, KCPGE21, LKB+22, MCS18, MFHMD20, PEC+23, SFT+21, SMP19, SGSdGB17, YGSB22, ZPRT23]. **productive** [VLD+20]. **productivity** [AHL+21, BFC+23, GRLS+23, KHS+19, MBB+21, SF23]. **profiles** [WH23].

**profiling** [SF23]. **progression** [XSQ<sup>+</sup>23]. **progressive** [KML<sup>+</sup>23]. **prokaryotes** [BOM<sup>+</sup>23]. **protected** [MSSC19]. **protects** [CRILC<sup>+</sup>22]. **provide** [VSB<sup>+</sup>20]. **providing** [LLA<sup>+</sup>22]. **proxy** [GYB<sup>+</sup>23]. **publication** [Clo22, HDPEF23]. **publishing** [HDPEF23]. **pulse** [MWL<sup>+</sup>23]. **pulses** [AOPP21]. **puzzle** [YWH<sup>+</sup>17]. **pyriferia** [SBM<sup>+</sup>18]. **pyrosomes** [LSER23].

**quality** [AHM21, BOM<sup>+</sup>23, SABR22]. **quantified** [GDP<sup>+</sup>23]. **quantities** [CBBE23]. **quantity** [AHM21]. **Queensland** [CMR<sup>+</sup>21]. **questions** [GD22]. **quotas** [TAC<sup>+</sup>21]. **quotients** [THV23].

**R.W** [Ano22]. **radiation** [VCL<sup>+</sup>20]. **Radon** [CSEP<sup>+</sup>18]. **Radon-traced** [CSEP<sup>+</sup>18]. **range** [CQSZ22, CC21]. **Rapid** [BFC<sup>+</sup>23]. **rate** [HC20]. **rates** [AHL<sup>+</sup>21, BWAJ19, CLTK<sup>+</sup>22, DTSC17, FSA21, GDP<sup>+</sup>23, GRLS<sup>+</sup>23, HFKBW21, LSH<sup>+</sup>22, LGGF<sup>+</sup>23, WSN<sup>+</sup>18]. **rather** [MCGK22]. **ratio** [HFKBW21]. **rationale** [ZPRT23]. **ratios** [LSH<sup>+</sup>22, MYS<sup>+</sup>23, ZPRT23]. **reactive** [PCS<sup>+</sup>20]. **read** [DDF<sup>+</sup>23]. **ready** [Hop22]. **recalcitrant** [CAO22, PCS<sup>+</sup>20]. **receding** [CSEP<sup>+</sup>18]. **Reconciling** [CST<sup>+</sup>22]. **Reconsideration** [YCS<sup>+</sup>21]. **record** [DAS<sup>+</sup>23]. **Recovery** [CDP<sup>+</sup>18, YSN<sup>+</sup>23]. **Red** [ZKG<sup>+</sup>22]. **reduce** [BB21, RGK22]. **reduces** [AFS<sup>+</sup>23, CSW<sup>+</sup>20, FSA21, FOE20]. **reduction** [LWP22]. **Reef** [CMR<sup>+</sup>21, CDP<sup>+</sup>18, CHLD18, CTC<sup>+</sup>20, JWSD22, KCPGE21]. **reef-scale** [CDP<sup>+</sup>18]. **reefs** [QRF<sup>+</sup>18]. **reflectance** [MPB<sup>+</sup>23]. **regimes** [BSSB23, HLH23, KHS<sup>+</sup>19]. **region** [MCGK22]. **regional** [RMV<sup>+</sup>18, YBZ<sup>+</sup>23]. **regions** [RMV<sup>+</sup>18]. **regulate** [PMP<sup>+</sup>20]. **regulates** [FKS20, KLA<sup>+</sup>17, ZJL<sup>+</sup>22]. **regulation** [SGSdGB17]. **related** [DSA<sup>+</sup>23, WML<sup>+</sup>19]. **relationship** [CS22]. **relationships** [OJ22]. **relative** [KHB<sup>+</sup>23, SMS20]. **release** [BB21, KSL<sup>+</sup>18, LWP22, PZB<sup>+</sup>23]. **released** [BOM<sup>+</sup>23]. **relevant** [HGS20]. **rely** [RRKLU<sup>+</sup>20]. **Remote** [ZJL<sup>+</sup>22]. **removal** [BHBT23, BB21]. **Reproduction** [CBH<sup>+</sup>22, HGS20]. **requirement** [Clo22]. **research** [GBH20, TFF23]. **researchers** [GD22]. **reservoir** [CDMH18, DAS<sup>+</sup>23, RPM<sup>+</sup>23, RPM<sup>+</sup>23]. **reservoirs** [HDC<sup>+</sup>17, HMLC21, HOP20]. **residency** [FT22]. **residential** [SABR22]. **resilience** [CPW22]. **resolve** [KBB<sup>+</sup>21]. **resolved** [GDP<sup>+</sup>23]. **resource** [MLPM21]. **respiration** [HAWH19, JB22, MCS18, MH19, TFHK18, WSN<sup>+</sup>18]. **Response** [CHLD18, BFC<sup>+</sup>23, CSW<sup>+</sup>20, HLH23, SMSS19]. **responses** [ASW<sup>+</sup>22, CQSZ22, CEM<sup>+</sup>22, DBRB20, WML<sup>+</sup>19]. **responsible** [LFS19]. **resurrection** [ARK<sup>+</sup>23]. **retention** [KSL<sup>+</sup>18]. **reveal** [HCA<sup>+</sup>23, HMLC21, OAL<sup>+</sup>19]. **revealed** [DDF<sup>+</sup>23]. **reveals** [FT22, SFT<sup>+</sup>21]. **review** [GD22, LSER23]. **rewards** [SDC21]. **rich** [OWT<sup>+</sup>23]. **richness** [RBvdK<sup>+</sup>18]. **riparian** [DTSC17]. **rise** [BGG<sup>+</sup>23, CQSZ22, CST<sup>+</sup>22, MHD21]. **Risk** [DSA<sup>+</sup>23, CSC20, DHM17, HHSL20]. **risks** [ARK<sup>+</sup>23, SDC21]. **River** [SSV<sup>+</sup>22, AHL<sup>+</sup>21, DBRB20, KSD<sup>+</sup>19, KHS<sup>+</sup>19, RRSL<sup>+</sup>19, HBN<sup>+</sup>22,

WSN<sup>+18</sup>]. **riverine** [LHMF20, PE22, RH18]. **rivers** [BKM<sup>+23</sup>, BSSB23, LR18, TBB<sup>+23</sup>, dCCS21]. **road** [SDHJ23]. **robustness** [ZMB<sup>+21</sup>]. **role** [BGG<sup>+23</sup>, CHFF22, DLT<sup>+19</sup>, QPC<sup>+16</sup>]. **root** [DTSC17]. **roots** [DBVB20]. **Ross** [YAML<sup>+23</sup>]. **rules** [Hot20, SH17]. **runoff** [BWK<sup>+23</sup>].

**S** [SYM<sup>+23</sup>]. **salinity** [BSSB23, KHB<sup>+23</sup>, MCAD23, OTP23, OWT<sup>+23</sup>]. **Salinization** [SFW<sup>+23</sup>, AGLD23, DR23, HSCA<sup>+23</sup>, KML<sup>+23</sup>, KCBG<sup>+23</sup>, LRD23, MBB<sup>+23</sup>, WEW23]. **salp** [BFS20]. **salp-ingested** [BFS20]. **salt** [AFS<sup>+23</sup>, AGLD23, SDHJ23, YJJ<sup>+23</sup>]. **salt-naïve** [AGLD23]. **saltmarsh** [CSH<sup>+22</sup>, KOLD<sup>+21</sup>]. **Salty** [SBAPS20]. **sampling** [DGS20, WLL22]. **sapidus** [WLC20]. **SAR11** [WGZ<sup>+19</sup>]. **scale** [CDP<sup>+18</sup>, CTC<sup>+20</sup>, DBRB20, LFH<sup>+23</sup>]. **scales** [HJS23, SFW<sup>+23</sup>]. **science** [MPB<sup>+23</sup>]. **sciences** [KBB<sup>+21</sup>, Sor16]. **scientific** [Clo23, Hot20, SDC21]. **scientific-society** [Clo23]. **Scott** [Ano22]. **Sea** [MHD21, MLPM21, YAML<sup>+23</sup>, BHBT23, BGG<sup>+23</sup>, CQSZ22, CMS<sup>+21</sup>, CSH<sup>+22</sup>, CST<sup>+22</sup>, FT22, HJS23, SMC20, SYM<sup>+23</sup>, CLTK<sup>+22</sup>, DCPN20, YCS<sup>+21</sup>, ZKG<sup>+22</sup>]. **Sea-level** [MHD21, CQSZ22]. **seabirds** [CSC20, LFH<sup>+23</sup>]. **seagrass** [CMR<sup>+21</sup>, CBCD19, CCT<sup>+20</sup>, DBG21, JB22, VRF<sup>+19</sup>]. **seals** [RJS<sup>+19</sup>, dIVMT<sup>+21</sup>]. **Seascape** [CC21]. **Seasonal** [ARG<sup>+19</sup>, CEM<sup>+22</sup>, HBN<sup>+22</sup>, Bri22, CBH<sup>+22</sup>, HHSL20, HJS23]. **seasonality** [YCS<sup>+21</sup>]. **seasonally** [HLAW23]. **seawater** [MWL<sup>+23</sup>]. **secret** [KCPGE21]. **Sediment** [MCS18, ARK<sup>+23</sup>, DBG21, MF23, WEW23]. **sediment-based** [ARK<sup>+23</sup>]. **sedimentary** [Sme21]. **sediments** [BB21, BWAJ19, CSH<sup>+22</sup>, CHFF22, DH21, GRK<sup>+17</sup>, JBG<sup>+21</sup>, MYVD22, PZB<sup>+23</sup>, ZPRT23]. **seiches** [CDG<sup>+22</sup>]. **Selective** [LFH<sup>+23</sup>]. **semi** [BGG<sup>+23</sup>]. **semi-diurnal** [BGG<sup>+23</sup>]. **semiarid** [WHW<sup>+20</sup>]. **sensitivity** [GES19, Hei23, LSH<sup>+22</sup>, VMM<sup>+22</sup>]. **sensors** [PE22, SBAPS20]. **sequencing** [DDF<sup>+23</sup>]. **series** [BCI17, CP18]. **services** [KSD<sup>+19</sup>]. **setting** [JZKS18]. **sewage** [MOW<sup>+22</sup>]. **Shackleton** [KHS<sup>+21</sup>]. **shallow** [ARG<sup>+19</sup>, CEM<sup>+22</sup>, CCT<sup>+20</sup>, DHM17]. **shape** [AGM<sup>+23</sup>, LGGF<sup>+23</sup>]. **shear** [CEM<sup>+22</sup>]. **Shedding** [LSER23]. **shelf** [CDC<sup>+21</sup>, CHFF22, HJS23, SMC20]. **shell** [NDRL18]. **shellfish** [BSH<sup>+20</sup>]. **shells** [GYB<sup>+23</sup>, RGK22]. **shielding** [BPL<sup>+19</sup>]. **shifts** [CC21, HBN<sup>+22</sup>, OTP23]. **Should** [DGS20, Clo23]. **Show** [MBR23, DBRB20, Kri17]. **Siberia** [MOW<sup>+22</sup>]. **Sierra** [MBB<sup>+23</sup>]. **sight** [KCPGE21, MGJ<sup>+18</sup>]. **signals** [HDC<sup>+17</sup>]. **Significant** [YAML<sup>+23</sup>, STS<sup>+17</sup>, SMT<sup>+17</sup>]. **silicate** [ZJL<sup>+22</sup>]. **silver** [CRP<sup>+18</sup>]. **similarities** [ASV<sup>+21</sup>]. **Simple** [Hot20, DDH18]. **Single** [KHB<sup>+23</sup>]. **Single-species** [KHB<sup>+23</sup>]. **sink** [DBG21, MYVD22, RDFD18]. **siphonophores** [HDSH<sup>+22</sup>]. **situ** [PE22, YGSB22]. **Size** [ASV<sup>+21</sup>, KOLD<sup>+21</sup>, RBI<sup>+23</sup>, SH17]. **Size-based** [ASV<sup>+21</sup>]. **size-distributions** [SH17]. **slicks** [LFH<sup>+23</sup>]. **slope** [SYM<sup>+23</sup>]. **slow** [DR23]. **slows** [CC21]. **Small** [ORA<sup>+22</sup>, LFH<sup>+23</sup>, RRKLU<sup>+20</sup>, SNAA16, STW17, VLD<sup>+20</sup>, VCL<sup>+20</sup>, VRB<sup>+23</sup>, WEW23, dWCJB<sup>+18</sup>]. **small-scale** [LFH<sup>+23</sup>]. **smaller** [ORA<sup>+22</sup>]. **snow** [SMSS19]. **Snowpack** [SMS20, CSW<sup>+20</sup>]. **socialis**

[PMP<sup>+</sup>20]. **society** [Clo23]. **soils** [ZPRT23]. **solitary** [KCPGE21]. **Some** [Hei23]. **sorbed** [AAG<sup>+</sup>20]. **source** [CSEP<sup>+</sup>18, JBG<sup>+</sup>21, RDFD18, SW20, SMT<sup>+</sup>17, SBM<sup>+</sup>18, TON<sup>+</sup>20]. **sources** [FBDH18, HCA<sup>+</sup>23]. **Southern** [YAML<sup>+</sup>23, ASW<sup>+</sup>22]. **southwest** [DAS<sup>+</sup>23]. **Sparkling** [DR23]. **spatial** [BCP18, CMR<sup>+</sup>21, LGGF<sup>+</sup>23, BGHC20]. **Spatially** [HJS23, LOS<sup>+</sup>20]. **spatiotemporal** [SKDR21]. **special** [MCAD23]. **specie** [VMM<sup>+</sup>22]. **species** [AFS<sup>+</sup>23, BGHC20, CBCD19, HOP20, KHB<sup>+</sup>23, MYS<sup>+</sup>23, ORA<sup>+</sup>22, SNAA16]. **spectral** [SYM<sup>+</sup>23]. **spectrally** [GDP<sup>+</sup>23]. **spectrometry** [STD<sup>+</sup>18]. **spectroscopy** [STD<sup>+</sup>18]. **Spirodela** [DBVB20]. **spore** [PMP<sup>+</sup>20]. **spring** [LRD23, SJL23, ZJL<sup>+</sup>22]. **stability** [AGM<sup>+</sup>23]. **Stable** [OAL<sup>+</sup>19, HCA<sup>+</sup>23]. **stage** [MKKS17]. **stages** [KML<sup>+</sup>23, ORA<sup>+</sup>22]. **state** [KML<sup>+</sup>23, SMP19]. **States** [DAS<sup>+</sup>23, TBB<sup>+</sup>23, WRT<sup>+</sup>22]. **Station** [HFKBW21]. **statistical** [BCP18]. **status** [RTK<sup>+</sup>18]. **steady** [DR23]. **stemflow** [VS18]. **steps** [HDPEF23]. **Stochastic** [CAH<sup>+</sup>20]. **Stoichiometry** [MJC18, MB22, WGZ<sup>+</sup>19]. **storage** [Sme21]. **Storm** [SMC20, AOPP21, MHD21]. **Storm-induced** [SMC20]. **stormwater** [TON<sup>+</sup>20]. **strategies** [JWSD22]. **strategy** [CSC20]. **stratification** [CMS<sup>+</sup>21, LRD23, WDT<sup>+</sup>22]. **stratified** [PEC<sup>+</sup>23]. **stream** [AGM<sup>+</sup>23, CHB<sup>+</sup>22, DTSC17, FBDH18, FT22, LGGF<sup>+</sup>23, McI22, SBJ<sup>+</sup>23, SFW<sup>+</sup>23, SW20]. **stream-to-sea** [FT22]. **streams** [BKM<sup>+</sup>23, BSSB23, BMH<sup>+</sup>23, CSW<sup>+</sup>20, HLH23, KSL<sup>+</sup>18, LR18, MH19, TBB<sup>+</sup>23, WCA<sup>+</sup>18]. **strength** [McI22, ORA<sup>+</sup>22]. **stress** [CEM<sup>+</sup>22]. **strong** [HBB<sup>+</sup>16, ZZD<sup>+</sup>23]. **structure** [DKZD16, MOW<sup>+</sup>22, SNAA16, UMDWC<sup>+</sup>21]. **studies** [ARK<sup>+</sup>23, LLA<sup>+</sup>22, VRB<sup>+</sup>23]. **study** [CCT<sup>+</sup>20, LLA<sup>+</sup>22, TCP18]. **Sub** [RJS<sup>+</sup>19, GRLS<sup>+</sup>23]. **sub-Antarctic** [GRLS<sup>+</sup>23]. **Sub-mesoscale** [RJS<sup>+</sup>19]. **submarine** [GYB<sup>+</sup>23]. **submersed** [BB21]. **submesoscale** [SFT<sup>+</sup>17]. **submit** [Clo23]. **substantially** [HMLC21]. **subtropical** [BLZ<sup>+</sup>22, YBZ<sup>+</sup>23]. **success** [SFT<sup>+</sup>17]. **successional** [CBCD19]. **suited** [TFF23]. **Sulfate** [YHD23]. **sulfide** [YHD23]. **sulfur** [LOS<sup>+</sup>20]. **summer** [ICH<sup>+</sup>23, SMS20, YAML<sup>+</sup>23]. **sunlight** [CK18]. **Superior** [AE23]. **superoxide** [CRILC<sup>+</sup>22]. **supply** [BWAJ19, ZJL<sup>+</sup>22]. **support** [BB17]. **suppressed** [RWRH16]. **surface** [CS22, HMIB22, MPB<sup>+</sup>23, WRT<sup>+</sup>22]. **survival** [FSA21]. **suspended** [BFS20]. **sustains** [KSL<sup>+</sup>18]. **Swedish** [WCA<sup>+</sup>18]. **Synchronous** [WCP23]. **synchrony** [HJS23, ICH<sup>+</sup>23]. **syndrome** [KML<sup>+</sup>23]. **Synechococcus** [VMF21]. **Synergistic** [BPL19]. **Synthesis** [CP18, DBdG<sup>+</sup>18, DRS18, VRB<sup>+</sup>23]. **Synthesizing** [CMR<sup>+</sup>21]. **system** [HLAW23]. **systems** [CAO22, CCT<sup>+</sup>20, MB22].

**Taking** [HDPEF23]. **Tampa** [VRF<sup>+</sup>19]. **targets** [MSSC19]. **taxi** [MKKS17]. **Taxonomic** [AGM<sup>+</sup>23, TAC<sup>+</sup>21]. **tell** [KHS<sup>+</sup>21, MBR23]. **temperate** [AHL<sup>+</sup>21, BWAJ19, CBH<sup>+</sup>22, DBRB20, FBV<sup>+</sup>20, KCPGE21, PLB<sup>+</sup>17, SFW<sup>+</sup>23, TSB<sup>+</sup>22]. **temperature** [AE23, BWK<sup>+</sup>23, CBF17, CTC<sup>+</sup>20, HAWH19, Hei23, ICH<sup>+</sup>23, JB20, LSH<sup>+</sup>22, SJL23]. **temperatures**



[DBRB20, WRT<sup>+</sup>22]. **temporal** [BGHC20]. **term** [CAH<sup>+</sup>20, CLB<sup>+</sup>21, CRP<sup>+</sup>18, VRB<sup>+</sup>23, WEW23]. **Terrestrial** [DRS18, GRK<sup>+</sup>17, JZKS18, TFHK18]. **terrigenous** [WRC<sup>+</sup>18]. **tests** [KHB<sup>+</sup>23]. **testudinum** [VRF<sup>+</sup>19]. **Thalassia** [VRF<sup>+</sup>19]. **thaw** [WRC<sup>+</sup>18]. **their** [CSM<sup>+</sup>21, HLH23, LL19, MB22, MFHMD20]. **theory** [CS22, THV23]. **Thermal** [HLH23, LKB<sup>+</sup>22, LLA<sup>+</sup>22, VMM<sup>+</sup>22, BSYD18, CSW<sup>+</sup>20, Hei23, LCL22, SNAA16]. **thermocarst** [VCL<sup>+</sup>20]. **Thicker** [RGK22]. **thin** [CLB<sup>+</sup>21]. **Thinking** [RCA<sup>+</sup>21]. **third** [PEC<sup>+</sup>23]. **thousands** [WLB<sup>+</sup>20]. **thresholds** [BCP18]. **throughfall** [VS18]. **throughout** [LFS19]. **Tibetan** [S JL23]. **tidal** [CQSZ22, MWL<sup>+</sup>23, RWI<sup>+</sup>21, YSN<sup>+</sup>23]. **tides** [BGG<sup>+</sup>23]. **time** [BCI17]. **timescales** [WCP23]. **today** [KHS<sup>+</sup>21]. **tolerance** [AFS<sup>+</sup>23, BSYD18]. **tools** [MIK18]. **topographic** [MCGK22]. **topography** [CC21, SH17]. **tops** [BPL<sup>+</sup>19]. **Total** [SFT<sup>+</sup>21, OJ22]. **toxic** [HHS18]. **toxicity** [DHM17, KHB<sup>+</sup>23]. **toxin** [LKB<sup>+</sup>22]. **toxins** [OWT<sup>+</sup>23]. **Trace** [SAE<sup>+</sup>22, NDRL18]. **traced** [CSEP<sup>+</sup>18]. **tracers** [SYM<sup>+</sup>23, dVMT<sup>+</sup>21]. **Tracking** [OAH<sup>+</sup>23, XSQ<sup>+</sup>23]. **trait** [Lit23]. **trait-based** [Lit23]. **trajectory** [KHS<sup>+</sup>21]. **transfer** [AAG<sup>+</sup>20]. **transformation** [VCL<sup>+</sup>20]. **transformations** [SMP19]. **transitions** [MAE<sup>+</sup>18]. **transport** [RMV<sup>+</sup>18]. **trawling** [FOE20]. **Tree** [VS18]. **Tree-DOM** [VS18]. **trends** [Kri17, RWRH16, VH23, WWFP20]. **Tributary** [DRKM23]. **Trichodesmium** [CRILC<sup>+</sup>22, FRVD18]. **triphosphate** [HFKBW21]. **Trophic** [AAG<sup>+</sup>20, KOLD<sup>+</sup>21, McI22, MFHMD20, RTK<sup>+</sup>18, SMP19]. **tropical** [CHLD18, QRF<sup>+</sup>18]. **trout** [McI22]. **tuna** [HCA<sup>+</sup>23, ORA<sup>+</sup>22]. **Tunas** [SFT<sup>+</sup>17]. **turbidity** [ZTZL21]. **turbulence** [SMC20]. **turnover** [CLTK<sup>+</sup>22]. **two** [BGHC20, HOP20, KHB<sup>+</sup>23, KSL<sup>+</sup>18, ORA<sup>+</sup>22]. **type** [ASV<sup>+</sup>21]. **types** [KHB<sup>+</sup>23, WH23].

**U.S.** [BSSB23, CSM<sup>+</sup>21, HOP20, KWRC21, MSSC19, RPM<sup>+</sup>23]. **Ultra** [VCL<sup>+</sup>20]. **Ultra-small** [VCL<sup>+</sup>20]. **uncertainty** [DRS18]. **underlying** [JBG<sup>+</sup>21]. **undersaturation** [YAML<sup>+</sup>23]. **understand** [WWFP20]. **Understanding** [Lit23, CRH<sup>+</sup>23, DBG21, GBH20, SBAPS20]. **understood** [Ano22, MFS22]. **understudied** [LOS<sup>+</sup>20]. **unified** [MOW<sup>+</sup>22]. **United** [DAS<sup>+</sup>23, TBB<sup>+</sup>23, WRT<sup>+</sup>22]. **unresolved** [CHFF22]. **Upper** [SDHJ23]. **Upscaling** [DBD18]. **uptake** [Inm22, VLD<sup>+</sup>20]. **upwelling** [BFC<sup>+</sup>23]. **urban** [FBDH18, KCBG<sup>+</sup>23, SW20]. **urchin** [MLPM21]. **Urea** [SBM<sup>+</sup>18]. **use** [DSA<sup>+</sup>23, SBAPS20, SH17, TFF23]. **using** [DDF<sup>+</sup>23, HFKBW21, PE22, RDFD18, WRT<sup>+</sup>22]. **utilization** [WL19].

**v1** [KWRC21]. **v1.0** [CSM<sup>+</sup>21]. **Validity** [MPB<sup>+</sup>23]. **value** [Bri22]. **Variability** [Cae21, MCGK22, BGHC20, Bri22, CTC<sup>+</sup>20, DLT<sup>+</sup>19, GKR<sup>+</sup>23, HLH23, RTK<sup>+</sup>18]. **Variability-based** [Cae21]. **variable** [LOS<sup>+</sup>20]. **Variation** [HLAW23, JB22, AFS<sup>+</sup>23, CBH<sup>+</sup>22, WCP23]. **variations** [HBN<sup>+</sup>22, SMSS19, ZTZL21]. **vary** [MLPM21]. **varying** [HJS23, SMP19]. **vascular** [DBVB20]. **vector** [GHHKY<sup>+</sup>17]. **Vegetation**

[MAE<sup>+</sup>18, DTSC17]. **Velocity** [WSN<sup>+</sup>18]. **Velocity-amplified** [WSN<sup>+</sup>18]. **Vertical** [CMS<sup>+</sup>21, SMC20, XSQ<sup>+</sup>23]. **vertically** [GDP<sup>+</sup>23]. **via** [PCS<sup>+</sup>20]. **virus** [FBV<sup>+</sup>20]. **Viscosity** [Imm22]. **visual** [MGG<sup>+</sup>23]. **vs** [BGG<sup>+</sup>23, CBCD19, HC20, MWL<sup>+</sup>23]. **vulnerability** [CST<sup>+</sup>22, VMM<sup>+</sup>22].

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**years** [CMR<sup>+</sup>21, RDFD18]. **yields** [PCS<sup>+</sup>20].

**zone** [JBG<sup>+</sup>21, WML<sup>+</sup>19]. **zooplankton** [AFS<sup>+</sup>23, DLT<sup>+</sup>19, DBRB20, DGS20, HSCA<sup>+</sup>23, RRKLU<sup>+</sup>20, STW17, SGSdGB17].

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