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Title word cross-reference

3 [CLB19, WP14]. + [KRR16]. ⁰ [Kus14]. ¹³
[Bre14, CHL⁺17, CKCEP10, DPM18, HBZ12, KPJ12, MMXC15, MMPSB14,
OEMB10, OEM12, ORGE16, WLG⁺16, WCCP14, dKYH⁺12]. ¹⁴
[KPJ12, MMXC15, WLG⁺16]. ¹⁵ [BCF⁺17, BLJ13, CHL⁺17, DLP13,
DLBF17, EOM16, JSH12, JTH⁺13, OHKC⁺12, WE19, ZLLM10]. ¹⁶
[SSS⁺16]. ¹⁸ [FYVU17, HH14, VHR⁺11]. ²²³ [HGvB⁺13]. ²²⁴
[HGvB⁺13, SBNC⁺19]. ²²⁶ [HGvB⁺13]. ²²⁸ [HGvB⁺13, SBNC⁺19]. ⁵⁶
[WGRS⁺17]. st [MTU18]. th [BLS⁺16, SSM⁺19]. ₁ [FLLH18, KSWFG13]. ₁₂
[BMM⁺13, BWP⁺10, KMP⁺11, KSWFG13]. ₂
[APB⁺17, AMB⁺11, BR17, BDP⁺19, BOT⁺15, BPL⁺19b, CCV⁺18,
CHHT18, CvHB⁺18, CGP⁺19, CESC13, CWHP14, DSM⁺18, EO13, FVSL19,
HST⁺14, HLSW⁺15, HRPW15, HXS⁺10, HH14, HCAF18, HCC⁺13,
HCL⁺18, KRR16, LWrDM⁺12, LWWE⁺18, Man10, MCGF⁺11, MSR16,
MQJG13, MRH⁺15, NTK⁺18, NWT⁺19, OLC18, PMY19a, PSG⁺16, QFH18,
RR12, RMH⁺17, RHMSE15, SSU⁺16, SYW18, SHF⁺11, TJJ⁺15, VSdG17,

VTH⁺18, WYL16, WFK⁺16, YH17, ZCZ⁺18, ZCY⁺15]. ₃ [KRR16]. ₄ [CKB⁺16, NSG⁺16, PMY19a, RMH⁺17]. *c*O₂ [SKJD⁺14]. *o*₂ [HH14]. ≈ [PE16a]. β [YLJ11]. : [BGB⁺14, FCC11, HSB⁺13, KK13, MQJG13, PFH⁺17, SGCI14, THA17, UA10, WC17, YJO⁺19]. Δ [KPJ12, BCF⁺17, BLJ13, CHL⁺17, DLP13, DLBF17, DPM18, FYVU17, HH14, HBZ12, JSH12, MMXC15, VHR⁺11, WE19, WGRS⁺17]. *S*₂₇₅₋₋₂₉₅ [FB12]. ζ [YLJ11].

-carotene [YLJ11]. -driven [KRR16]. -induced [MSR16]. -sink [CCV⁺18].

1-m [vH19]. 10.1002/Ino.10504 [Ano21a].

2 [KPSW10]. 2007 [PCY⁺10]. 2010 [SWD⁺14]. 2011 [CWHP14, KJKS18]. 227 [PSH⁺11]. 28-year [EMH12].

30-yr [Scu16].

48-meter [SLS⁺11].

5 [MLK11]. 5-bisphosphate [nVOH12]. 5-year [SGRB10].

62 [Ano21a]. 64 [Ano21b].

abatement [AEH19]. aberrant [FDP⁺18]. **Abiotic** [ASR⁺17, DDF⁺10, RZW11, uGH⁺11]. **above** [MMC⁺10, WMM18]. **Absence** [CKP⁺15, KCB⁺17]. **absorption** [DVC⁺17, EM13, EBMR12, LWB⁺17, PE13, RDT⁺14, TW10b, XSAHV13, ZD18]. **Abundance** [PS17, RCJ15, SDMK10, AAIA14a, AAIA14b, AdBVA10, BBCM⁺13, BSRP⁺12, DDH⁺19, DBFL11, GOD⁺18, HPS⁺10a, LG16, MRSS12, MPSA17, MCYR17, MBBG⁺12, PRL18, Piw19, SAPI14, SJ11, SDCF16, SSFR19, WMP⁺19, YYMN13]. **abundances** [RG13]. **abundant** [LZR⁺17, LCW⁺17b, MH16]. **Abyssal** [vOSH12, DRP⁺17, SSH⁺14, SSS⁺19, WRS13]. **acantharian** [MAC⁺10]. **Acartia** [DHK11, JLG10, JLG11, TW10b]. **accelerated** [HBD⁺11, ZNVF16]. **accelerates** [VSD10]. **access** [LFC17]. **acclimation** [BG10b, GPL11, KRR16, XNK18]. **acclimatory** [SGME11]. **accomplishments** [APS⁺19]. **accretion** [AC17, LSD18]. **accumulates** [YLJ11]. **accumulation** [BPRG⁺18, BSC⁺15, CF13b, GKS12, KNL10, MMHT10, MFL11, STCS10, SM11a, SGVR16, SFLB16, VF10, WFR10]. **accurate** [CSGW18]. **acid** [BB10, BISZ17, CWF11, CHL⁺17, DBC⁺13, GLS⁺13, HHW⁺19, HSTK15, JTV⁺16, KNA⁺14, KBVW12, LWWE⁺18, MVL⁺10, MMXC15, MGW⁺13, NBSMN19, SKLG10, SW11, SHF⁺11, WTC⁺17, dKYH⁺12]. **acid-based** [BISZ17]. **acid-producing** [HHW⁺19]. **acidic**

[CCC10, RSJ⁺¹⁸, RHMSE15, SHD⁺¹¹]. **acidification** [BRS11, BR17, BHW⁺¹², BG10a, BWD⁺¹¹, BWD⁺¹², CESC14, CHPH13, CSME13, Edm11, FCC11, GWB⁺¹⁴, HVJ⁺¹⁹, HRG⁺¹⁵, KBHT19, KRR16, LABJ18, Man10, MLGZ16, MSR16, NBDM16, RSTS⁺¹⁸, SLC18, SPTS15, TIN⁺¹⁴, TBSR13, VFS⁺¹⁵, WCS⁺¹⁸, WGH⁺¹⁶, WCI⁺¹⁴, XFH14, ZBSR15, ZHG15]. **acidified** [WBB⁺¹⁷]. **acidity** [KKP⁺¹⁹, NWT⁺¹⁹]. **acids** [CPPdAR⁺¹³, GBB19b, HOD⁺¹⁷, IWF19, KMF10, LWrDM⁺¹², MTEM15, MKK15, NCT⁺¹⁵, SRCL⁺¹³, TEGL11, TAV⁺¹⁰, UVGS10]. **Acoustic** [PGB⁺¹⁹, BM16, SWL11]. **acoustics** [MPM⁺¹⁵]. **acquisition** [Ano19c, BSCC15, GBB⁺¹⁸, KP13, TBSR13]. **across** [ARML10, BRM⁺¹⁹, BYD19, BTC⁺¹⁹, BGB⁺¹⁴, CMK⁺¹⁰, DJS18, FZL⁺¹⁴, FWO⁺¹⁸, FOT⁺¹⁵, GLI⁺¹⁵, GBC⁺¹⁷, GRSD⁺¹⁴, HRMD19, JKKM13, JWGH19, KEH⁺¹⁴, LLH⁺¹⁵, LPLH18, LG16, LHS19, MLS⁺¹⁸, MMWR17, MHPW18, NTK⁺¹⁸, NHS⁺¹², PMY^{+19b}, PSS⁺¹⁴, PFH⁺¹⁷, PS17, RAB⁺¹⁷, SES18, SSG⁺¹⁷, SLK⁺¹⁴, SAPI14, SWP11, SvKP⁺¹⁸, SSM⁺¹⁹, WMT⁺¹², WVV⁺¹⁸, WMP⁺¹⁹, XDK⁺¹⁷, YP18, ZHN⁺¹⁰]. **acrylate** [TKK⁺¹⁷]. **act** [HCD19]. **action** [DMSHC16]. **activation** [WLO⁺¹⁹]. **Active** [BSSW11, HPL11, LSK11, JKKM13, PK14, SWM⁺¹⁰, WVV⁺¹¹, WMC⁺¹⁸]. **activities** [AFSM17, FCD12, Ker17, VPWW10]. **activity** [BB11, BBK⁺¹⁵, DM17, DDK10, DBV⁺¹¹, GFP13, GBC⁺¹⁷, HGD14, HBB⁺¹¹, HPS10b, LDY⁺¹⁶, LC11, MLS⁺¹⁸, MGS12, PSNE15, PSZ⁺¹³, RGGL⁺¹², RGLM⁺¹², SPP10, SDCF16, SBH⁺¹¹, SVG⁺¹⁸, SDMK10, UMHH⁺¹⁴, WYW⁺¹⁰, ZMS⁺¹⁸, ZXL⁺¹⁹]. **aculeatus** [KKHP14]. **acuminata** [HLG15]. **acute** [WGH⁺¹⁶]. **acutus** [PT11]. **adaptation** [JLC⁺¹⁵, NCT⁺¹⁵, PGRR⁺¹⁹, SASB⁺¹⁵, Sch19]. **adaptations** [MNW⁺¹⁹, MCT⁺¹⁴, SWP11]. **adapting** [SSP⁺¹⁸]. **Adaptive** [KSTA18a, SMH⁺¹¹, MAV⁺¹³, Rie15]. **Adding** [MHRH11]. **addition** [EED10, GMS⁺¹⁸, JWS15, WCCP14]. **additions** [JTH⁺¹³, KRB⁺¹⁸, OHKC⁺¹², SCF⁺¹⁵]. **Additive** [MMBP18]. **adds** [WGM16]. **adenosine** [MLK11]. **adenosine-5'-triphosphate** [MLK11]. **adequately** [SP11]. **adhesion** [CGB⁺¹⁸]. **adjacent** [ZYZ19]. **adjust** [PT11]. **adjustment** [AFG⁺¹⁶]. **Adriatic** [IGP⁺¹²]. **adrift** [vHOM⁺¹⁹]. **adsorption** [LK15, RSM13]. **adult** [HBCK10, LDCT11, SGCI14, TDF⁺¹⁷]. **Advancing** [PE16b, MWR17]. **advection** [MFM⁺¹², RPI⁺¹², WMC⁺¹⁸]. **Advective** [SKK⁺¹³]. **aeolian** [CCV⁺¹⁸]. **aeolian-dust** [CCV⁺¹⁸]. **aerial** [KDGL19]. **Aerobic** [OMB⁺¹⁶, BNW^{+14b}, CG17, TLR⁺¹³]. **aerosol** [LYH17]. **aeruginosa** [BVSM15, FDBW16, HL13, WKK⁺¹¹]. **affect** [GPCJ16, HSTK15, KHH19, LdSB⁺¹², LBHS13, PMP⁺¹², RLC⁺¹¹]. **affected** [BK13, DPG⁺¹², MVNG11, SNO⁺¹⁶]. **affecting** [OrIA10, PHJ12, PMA18]. **affects** [DRE⁺¹⁰, HAL17, LUM15, NA17, TIN⁺¹⁴, VBC⁺¹²]. **Africa** [GNHGM13, CMK⁺¹⁰, JAZ⁺¹⁰, MRSE14, MRC⁺¹⁶]. **African** [RDB⁺¹⁸]. **after** [BAA⁺¹³, KHPIP⁺¹⁴, SCF⁺¹⁵, SVG⁺¹⁸, SYW18]. **Against** [OPA⁺¹⁴, KGRV18, KJKS18, KMF10, SBFC18]. **age** [MMXC15]. **aged**

[XZGW17]. **agent** [RBRH10]. **aggregate** [TGC⁺10, vdJFS⁺18]. **aggregates** [BVvB⁺19, LKK13, MTSG18]. **Aggregation** [PDFS14, vdJFS⁺18, DMN15, GMJW13, MPM⁺15, SLG⁺14]. **Agricultural** [GTR⁺13, CBK18, DVSV13, KGvdH16]. **agriculturally** [KGRV18]. **agriculture** [BLS⁺16]. **agro** [FPG11]. **agro-urban** [FPG11]. **aids** [Sch19]. **Air** [RHSD⁺10, HEBS10, Kus14, PHL⁺18, RWB⁺19, TPM⁺14, ZCZ⁺18]. **air-sea** [HEBS10, ZCZ⁺18]. **Air-water** [RHSD⁺10]. **akashiwo** [HMD11]. **al** [Ano21b, LGR⁺12, MLS⁺14, Ano21a]. **al**. [ACC⁺19, CJC⁺12]. **Alanine** [DLBF17]. **alarm** [SBDS⁺15]. **alarm-cues** [SBDS⁺15]. **Alaska** [AJG13, BLLB12, HXS⁺10, KMP⁺11, VHV10]. **Alaskan** [GSBR11, LKS⁺16, MGJH18]. **Albula** [HCD19]. **alewife** [BRT⁺10]. **alewife-mysid** [BRT⁺10]. **Alexandrium** [BVSR⁺15, BRF⁺17, CBS⁺17, HLSW⁺15, MTH⁺11, SFWP12]. **alga** [GHSR⁺16, HCL⁺18, KSWFG13, SMLC⁺18, VFS⁺15, YLJ11]. **algae** [CHPH13, EM13, GK15, HZC⁺13, KG18, KGL⁺16, LCS⁺19, PBA⁺15, RKLH11, RBD18, WZR19]. **algae-produced** [KGL⁺16]. **Algal** [JTV⁺16, OSHS19, AMNU16, BH13, CFB14, DMS⁺18, DBMP⁺11, HMD11, KG18, KIH⁺15, OCB⁺18, RKBA14, RPH⁺10, SBM⁺15, SLA⁺18, SMN⁺15, SS12b, SS12c, TDS⁺10, THA17, TWWY18, VHR10, WZBW⁺11, ZD18]. **aliases** [SSC⁺17]. **alien** [PSS⁺14]. **alignment** [CFD⁺19]. **Alkaline** [DDK10, GFPSG13, DM17, DBV⁺11, LDY⁺16, MLS⁺18, RSJ⁺18]. **Alkalinity** [MMG16, FEW⁺14, KLEH16, MSR16, VPG⁺19, YKT⁺15]. **allelochemical** [WRO⁺11]. **allelochemicals** [FPSL18]. **allelopathically** [KG18]. **Alleviation** [HD19]. **allocation** [BJF18, CLWD13, MZB⁺15]. **allochthonous** [GMS⁺18, GBP⁺12, HBR⁺14, HDDH⁺17, RMF11, TTV⁺13]. **Allometric** [ETKL12, ETKL15]. **allows** [LFH⁺12]. **ALOHA** [DBH⁺16, BDK⁺17, GWB⁺14, MGK15, MG17]. **alone** [MCLT15]. **along** [AC17, BSM17, BWS⁺14, CJS⁺17, CAS⁺17, FEC⁺16, HS10, HHS⁺18, HSP⁺16, HMFF12, JCF⁺10, KH16, LZR⁺17, LCBC16, LV16, MvdPK⁺15, MFL11, MMD18, MCGF⁺11, RBM14, RLL⁺10, SPGRP⁺17, SBH⁺11, TSSH19, VdRA⁺19, WWC⁺13, WC17, WWS11, WSUC⁺18, ZZW16, ZTW⁺11, dGCB⁺11]. **Alpine** [BNW⁺14b, FUS⁺16, BNW⁺14a, FBFR13, GDCM13, GPH⁺13, GSB⁺17, ITO⁺17, KWRS13, MMGP⁺12, PJUR15, SFMF15, SS12a, WBZ⁺13]. **alter** [BVvB⁺19, GSPM13, WBB⁺17]. **alteration** [SSC⁺10]. **alterations** [FAF⁺12]. **altered** [FBFR13, NWT⁺19, WHH⁺11]. **alternates** [BSN⁺14]. **alternative** [ZHD⁺16]. **alterniflora** [TMH⁺18]. **alters** [BH13, GTR⁺13, GSB⁺17, NPT11, Rie15, SCP⁺16]. **altitude** [ZZY⁺10]. **altitudinal** [LV16]. **aluminum** [MdBKL13]. **Amazon** [AHD⁺18, BMF⁺16, CSS⁺16, ERA⁺12, LWWC⁺16, WCC⁺17, ZKMT⁺13]. **Amazonia** [CKCEP10]. **Amazonian** [APB⁺17]. **ambient** [HWZ13, HMHI13]. **ambush** [XNK18]. **ameliorates** [Edm11]. **America** [BHC13, BGW⁺15, PSS⁺14]. **American** [HLG15, MBBG⁺12, RLPL14, RPL16]. **amino**

[CHL⁺¹⁷, GBB19b, HOD⁺¹⁷, KMF10, LWrDM⁺¹², LWWE⁺¹⁸, MTEM15, MGW⁺¹³, NCT⁺¹⁵, SKLG10, SRCL⁺¹³, TAV⁺¹⁰, UVGS10, WTC⁺¹⁷].
Ammonia [UMHH⁺¹⁴, AMMH⁺¹³, Ano10, BPA12, CMB10, HQB⁺¹⁸, MACM11, MBP⁺¹⁷, NFW13, PWS⁺¹¹, SDCF16, VFME18].
ammonia-oxidizer [NFW13]. **ammonia-oxidizing** [AMMH⁺¹³, BPA12, MACM11, PWS⁺¹¹, SDCF16, VFME18]. **Ammonium** [MFK⁺¹³, PPPA14, DBFL11, DSS⁺¹¹, GWD⁺¹⁶, JAZ⁺¹⁰, KCB⁺¹⁷, MAS⁺¹⁶, RRB⁺¹⁶, RDB⁺¹⁸, STCS10, SMR⁺¹⁷, SSGL19, WBZ⁺¹³].
ammonium-oxidizing [JAZ⁺¹⁰]. **among** [AJG13, BWD⁺¹¹, BWD⁺¹², CHL⁺¹⁷, CMS⁺¹⁸, FWS⁺¹⁴, HS11, KP13, MRB11, NG13, RCIB14, SWP11].
amounts [CHV⁺¹⁷, YLJ11]. **amplifies** [RBG⁺¹⁰]. **Amundsen** [PKB⁺¹⁷, SSFF12, STC⁺¹¹]. **Amyot** [SH10a]. **anadromous** [CBP10, TWP13]. **Anaerobic** [BK11, DMMV15, àNTS13, TSB⁺¹⁹, WBZ⁺¹³, JAZ⁺¹⁰, RDB⁺¹⁸, RETS16, SSS⁺¹⁶, SAP⁺¹¹, TSDF⁺¹⁶].
analyses [CHL⁺¹⁷, KGL⁺¹⁶, KWB⁺¹⁶, MGHS18, MH16, SNTK15].
Analysis [ABS⁺¹⁹, GK14, AWG⁺¹², BSCG17, BPPF12, BRS18, BSC⁺¹⁵, CS12, CVS⁺¹⁰, Edm15, FBV11, FPP⁺¹⁹, GCH⁺¹⁸, GAK⁺¹⁹, HOD⁺¹⁷, KHCH14, KFP⁺¹⁸, LGW⁺¹⁹, MBB⁺¹⁸, MJJMM17, PE13, RKLH11, RMNZ12, SCQ⁺¹⁷, UIY⁺¹¹, WVL⁺¹⁸, YLJ11]. **analytical** [RGM⁺¹¹].
Anammox [DTFR12, BGR14, DT16, DSS⁺¹¹, JAZ⁺¹⁰, NTK⁺¹⁸, WBZ⁺¹³].
Ancient [GBS17, FHR⁺¹⁵, HMO⁺¹⁸, KPW⁺¹¹, SHL⁺¹⁸]. **anemone** [HRPW15]. **anemophilous** [MBK⁺¹¹]. **Angola** [NLO⁺¹², WMBR13].
angustifolia [KOFN11]. **animals** [Hir12, MHT13, OCR10]. **Annecy** [PDER10]. **Annual** [RGGL⁺¹², CB19, GGPM⁺¹⁰, GMD11, MGJH18, NSG⁺¹⁶, RPL16, Scu16].
annularis [Edm15]. **anomaly** [PNR19]. **anophagefferens** [KG18, KSWFG13]. **anoxia** [AMQ⁺¹¹, BKA⁺¹⁴, GMBL16, MGW⁺¹³].
anoxic [BNW^{+14a}, BNW^{+14b}, BKD⁺¹⁶, CHHT18, GMS⁺¹⁸, KPJ12, NCT⁺¹⁴, OMB⁺¹⁶]. **anoxygenic** [MRC⁺¹⁶]. **antagonistic** [ŠSP17].
Antarctic [HVJ⁺¹⁹, MMD18, RVvdP⁺¹⁷, TSSH19, ADS⁺¹⁷, BPV⁺¹⁹, DTKMK15, GAK⁺¹⁹, HGD14, MKLKP16, PHB⁺¹⁰, PMA18, RNK⁺¹⁶, RHDTs⁺¹¹, STCS10, SAS⁺¹¹, SAPI14, SJ11, SPO⁺¹⁸, SDMK10, TT14, TBSR13, VCM13, VML⁺¹⁹, XFH14]. **Antarctica** [SWD⁺¹⁴, BIM⁺¹⁶, DKK⁺¹⁴, FYC⁺¹⁸, MWR17, PKB⁺¹⁷, SSS⁺¹⁶, SMA15, VMAS⁺¹⁶, ZCZ⁺¹⁸, KBHT19, MEM⁺¹⁷]. **antecedent** [KHH19]. **Antenucci** [PHJ12]. **Anthropogenic** [BBJ⁺¹⁹, HSC⁺¹⁴, MH16, RKG⁺¹¹, LYH17, MMGO^{+17a}, MMGO^{+17b}, SLK⁺¹⁰, TZD⁺¹⁵]. **antioxidant** [DJD⁺¹⁴, HKS⁺¹⁵]. **antipredation** [GMJW13]. **antipredatory** [KS13].
Apopka [SLK⁺¹⁰]. **Appalachian** [REDW10, VB17]. **Apparent** [KBT16, EMB12, GBK⁺¹⁸, SMLC⁺¹⁸]. **appearance** [OLF⁺¹¹, SGH12].
appendicularian [LTPK⁺¹⁸, LBR⁺¹³, LEG⁺¹⁰, LSK11, NTI⁺¹⁵, WBB⁺¹⁷].
appendicularian-ciliate [LEG⁺¹⁰]. **appendicularians** [CGB⁺¹⁸, LRS⁺¹⁰].
Application [GBMG12, JSB⁺¹⁴, SRAB10, CJHR19]. **applied** [BRR⁺¹³, GBL13]. **approach** [BBS⁺¹⁸, BRT⁺¹⁰, DHW11, DWDH10,

GBL13, GRE⁺¹⁶, HSLH⁺¹⁴, HMFB16, HESU13, MW15, RKBA14, RBY⁺¹⁷,
 RBI⁺¹⁰, SAH⁺¹⁹, Spi15, TRD⁺¹⁴, YWL⁺¹⁷]. **approaches**
 [KWF⁺¹⁷, MHT13]. **aq** [WYL16]. **Aqaba** [WSB⁺¹³]. **aquaculture**
 [DCRC16, MAS⁺¹⁶]. **Aquatic** [HCK10, SDS⁺¹⁶, AP12, AGCA16, AGMR14,
 GMMV19, GBS17, GN16, HSCM19, HS10, HBR13, HSBA10, JLC⁺¹⁵, KS16,
 KB15, KWF⁺¹⁷, LN11, MKW⁺¹⁹, NBG17, PvEF12, PWWF18, RDT⁺¹⁴,
 SSU⁺¹⁶, SM11b, TBHM⁺¹³, TCFP19, WLO⁺¹⁹, WC17, XDK⁺¹⁷].
aquaticus [FA10]. **aquifer** [MBH⁺¹⁵, YMB⁺¹⁸]. **Arabian**
 [CRJ⁺¹⁴, MVG⁺¹⁵, TRD⁺¹⁴]. **Aragonite** [LGC13a, LGC13b, NLHAA⁺¹⁷].
archaea [BPA12]. **archaeal** [CKCEP10, GGPM⁺¹⁰, UMH⁺¹⁴]. **archaeon**
 [AMMH⁺¹³]. **archipelago** [PMA18, TBK15]. **archive** [VKC18]. **archives**
 [FMGR⁺¹¹]. **arctia** [RF13]. **Arctic**
 [AMQ⁺¹¹, BAG⁺¹⁷, PvDM⁺¹³, SSFF12, ÅCA⁺¹⁸, ABD⁺¹⁷, AMNU16,
 BSR⁺¹⁷, BPW⁺¹⁹, BAY⁺¹⁴, CMS17, DKG15, DHG⁺¹⁷, DHZ⁺¹⁹, DL11,
 EM13, FNSS15, FDS⁺¹⁸, GLKK10, GKT⁺¹⁵, GVS⁺¹⁰, HNHS⁺¹⁵, HKS⁺¹⁵,
 JBB⁺¹⁶, KHH19, KPW⁺¹¹, KHCH14, KGL⁺¹⁶, LKT17, LEN⁺¹⁵, LKS⁺¹⁶,
 LAC⁺¹⁹, LGC16, MCCA18, MKBSK19, MSK⁺¹⁷, MW15, NRS16, ORGE16,
 OSHS19, PPT12, PH13, PML⁺¹⁹, PSNE15, PMRRA19, RSN16, RS19,
 SNO⁺¹⁶, SKV⁺¹⁹, SHT⁺¹⁷, SFI⁺¹⁸, SBC⁺¹⁷, TLG⁺¹¹, VLJ⁺¹⁰, WCB⁺¹⁰,
 WKAM⁺¹⁹, WHR18]. **Arctica** [MWC⁺¹⁶]. **area**
 [BBT⁺¹⁰, CKB⁺¹⁶, FCD12, GRE⁺¹⁶, GBMG12, HLGA17, RPG13]. **areas**
 [HCAF18, MPM⁺¹⁵, QS19]. **arenaria** [BMDC10]. **Arenicola** [VPWW10].
Argentina [HPM⁺¹⁰, VBG⁺¹³]. **Argyle** [WMI⁺¹⁷]. **arid**
 [BMBI12, Ker17]. **armed** [BL18]. **aromatic** [GPS15, ZZW16]. **arriving**
 [BBM11]. **Arsenic** [WZC13, BHB⁺¹⁹, LCW17a]. **Artemia**
 [BPL^{+19a}, JW14]. **Artificial** [GSB⁺¹⁷]. **ascidians** [JYS18]. **Ascomycete**
 [RJFMG17]. **Asellus** [FA10]. **asexual** [HRPW15]. **ash** [MLL⁺¹⁴]. **Asia**
 [MKG⁺¹⁵, TLB⁺¹⁶]. **ASLO** [Ano19a]. **aspergillosis** [RBRH10].
Aspergillus [RBRH10]. **aspirations** [YKBJL12]. **assemblage**
 [BDC⁺¹⁴, CPOMA15, JC14, MLL⁺¹⁴, MS13, PMP⁺¹², RRGCA19, WS13].
assemblage-based [BDC⁺¹⁴]. **assemblages** [AMNU16, BSMC12, CEB⁺¹⁷,
 CHPH13, GGPM⁺¹⁰, IHSS⁺¹⁹, LCS⁺¹⁹, MF19, MBTK18, NRS16, RS19,
 SLA⁺¹⁸, SRM⁺¹⁸, TCG⁺¹⁷, VSP⁺¹¹, ZCL⁺¹⁹]. **assembly** [LCW^{+17b}].
assessed [CCK⁺¹², WP14]. **Assessing**
 [AC15, FZL⁺¹⁴, JSH12, JHW⁺¹⁹, NBDM16, YJO⁺¹⁹, BJDMMH10].
Assessment [EM13, FPGR⁺¹³, HPS10b, LALGM18, MTU18, SAS⁺¹¹].
assessments [BSB⁺¹⁸, BGB⁺¹⁴, KBA⁺¹⁴]. **Assimilation**
 [SHL⁺¹⁸, BCRC16, CFB14, CMM⁺¹¹, FHR⁺¹⁵, GWD⁺¹⁶, KHP18,
 TEGL11, XLS⁺¹⁹]. **assimilatory** [RvSM17, TG17]. **assist** [OBM⁺¹¹].
associated [AFSM17, BR17, BS18a, BIM⁺¹⁶, BBK⁺¹⁵, BSRP⁺¹², CMS⁺¹⁸,
 CBF10, DVDB16, FCD12, HNL⁺¹³, JB19, KZR⁺¹⁶, LPO⁺¹¹, LSH⁺¹⁷,
 Lee18, MVT⁺¹⁷, ORC⁺¹⁷, RWM⁺¹⁹, RBRH10, Sch19, TGC⁺¹⁰, USB⁺¹⁰,
 VBG⁺¹³, ZOB⁺¹⁵]. **Association** [SSL⁺¹², SKLG10]. **Associations**
 [LEK⁺¹⁸, PGR⁺¹⁹]. **astaxanthin** [NZH⁺¹¹]. **astreoides**

[MPSA17, TEGL11]. **asymmetry** [JGR⁺¹⁴]. **Atchafalaya** [SFB12]. **Athabasca** [RKWH18]. **Atlantic** [Ano17l, DTL⁺¹⁹, HLJ12, JWGH19, MvdPK⁺¹⁵, NLO⁺¹², PFvO⁺¹⁸, RWM⁺¹⁴, RKMN⁺¹³, WMBR13, ABB⁺¹⁴, ASSG12, ÁSNCA⁺¹³, ASA⁺¹⁸, BFW⁺¹³, BLW15, BCRC16, BSB⁺¹⁰, CCV⁺¹⁸, CTA⁺¹⁹, CR16, CSS⁺¹⁶, CWHP14, CSC⁺¹¹, DKSA19, DVDB16, FPP⁺¹⁹, GMGM⁺¹³, HWZ13, HGM10, KCL⁺¹⁴, KKHP14, KMH⁺¹⁷, MRKR⁺¹⁴, MMD15, MCGF⁺¹¹, PPT12, SLG10, SBBNM14, WWC⁺¹³, WCC⁺¹⁷, WB19, WM17, ZXZ17b]. **atmosphere** [ZYZ19]. **atmospheric** [ACW⁺¹⁸, HCL⁺¹⁸, KK13, KHVS11, LGC16, MKG⁺¹⁵, WCJ16]. **atoll** [GJR⁺¹⁹, KCH⁺¹², RMK⁺¹⁶]. **attached** [TCG⁺¹⁷]. **attenuate** [GGL⁺¹⁸]. **Attenuation** [TBK15, BA14, GAH11, LPO⁺¹¹, NLM⁺¹², OR16, RNT⁺¹⁹, SSG⁺¹⁷, SVMT15, UVGS10, WZTK15, ZWA⁺¹⁴]. **attraction** [HJMD13]. **August** [PCY⁺¹⁰, CWHP14]. **Aurelia** [RG13]. **Aureococcus** [KG18, KSWFG13]. **Aureoumbra** [KG18]. **austral** [KYRMD18]. **Australia** [AAIA14a, AAIA14b, CSGW18, LCBC16, RMJ⁺¹⁸, REE⁺¹², UA10, VHR10, WMI⁺¹⁷]. **Australian** [MS13, CHL10, EMS16, HBM⁺¹⁵, HVD⁺¹⁸, PBL⁺¹⁸, PD11, RHMSE15]. **australis** [HCK11]. **Autochthonous** [HDDH⁺¹⁷, GMS⁺¹⁸, RMF11, TTV⁺¹³, WCCP14]. **automated** [FPP⁺¹⁹, HGD14]. **autonomous** [GPH⁺¹³, RGM⁺¹¹, SBM⁺¹⁵, SPO⁺¹⁸]. **autotrophic** [DTKMK15, GFT⁺¹⁴, PGP⁺¹⁴, SKJD⁺¹⁴, TEGL11]. **autotrophs** [NCC14]. **autotrophy** [FPPA⁺¹¹]. **autumn** [JZZY18, KYRMD18]. **availability** [BVvB⁺¹⁹, BMB⁺¹⁸, CJWS15, ETI⁺¹⁶, HBZ12, HVD⁺¹⁸, IHSS⁺¹⁹, KGRV18, KMF10, KvdPVB13, LTPA17, LRG16, MKB⁺¹⁹, PCF14, PKB⁺¹⁷, QFH18, SKV⁺¹⁹, SBvH⁺¹⁵, Spi15, SHF⁺¹¹, TIN⁺¹⁴, TSC⁺¹⁹, TFLS14, UMHH⁺¹⁴, XFH14]. **avara** [SWM⁺¹⁰]. **Average** [GPCJ16, KTRK11, Kir13, MB10]. **Avoidance** [HMD11, HJMD13, HL13, TWWY18]. **Avoiding** [BSB⁺¹⁸]. **away** [WKSr13]. **axenic** [SLC⁺¹⁶].

B [BMM⁺¹³, BWP⁺¹⁰, FLLH18, KMP⁺¹¹, KSWFG13, VMF⁺¹¹]. **B1** [PBA⁺¹⁵]. **Bachmann** [MLS⁺¹⁴]. **Bacillariophyta** [RASD10]. **back** [NBG17, TDM⁺¹³]. **back-barrier** [NBG17]. **back-reef** [TDM⁺¹³]. **background** [SBR⁺¹³]. **backscattering** [ASK⁺¹¹, BA14, NLM⁺¹², RSN16]. **bacteria** [ATP⁺¹⁵, AGCA16, BS18a, BPA12, BSB⁺¹⁰, DMSHC16, FDS⁺¹⁴, FYT⁺¹², GVS⁺¹⁰, HAC⁺¹¹, JAZ⁺¹⁰, KWM⁺¹⁹, KHG⁺¹³, LCW^{+17b}, LFGK10, MLK11, MVT⁺¹⁷, MTW12, MDE11, PBA⁺¹⁵, PSZ⁺¹³, SPP10, SRCL⁺¹³, Sch19, SSS⁺¹⁹, TMK⁺¹³, USB⁺¹⁰, WBZ⁺¹³, YLH⁺¹⁶]. **Bacterial** [ASSG12, BNW^{+14a}, MGS12, PCM⁺¹⁶, ŠGH⁺¹⁸, Ano10, BNW^{+14b}, BC10, CMB10, CFF⁺¹⁷, FBV11, HT17a, LRM17, LFGK10, LTX⁺¹⁷, MMPSB14, MW15, OCLW11, PSNE15, PD11, RSTS⁺¹⁸, RGGL⁺¹², RGLM⁺¹², SDMK10, TGC⁺¹⁰, TCG⁺¹⁷, TBAS14, TST⁺¹⁹, UMHH⁺¹⁴, WCJ⁺¹⁵, WZBW⁺¹¹, dGCB⁺¹¹]. **bacterioneuston** [HPS10b].

bacterioplankton

[BB11, GKT⁺¹⁵, HGG⁺¹⁷, LZR⁺¹⁷, SNM11, SPFP11, VF10, dKNL⁺¹⁵].
bacterivores [ŠGN⁺¹⁹]. **bacterivorous** [ŠGH⁺¹⁸]. **bacterivory**
 [WSUC⁺¹⁸]. **Baikal** [PRS⁺¹⁸, KIH⁺¹⁵, KZR⁺¹⁶, KZR⁺¹⁹, OWS⁺¹⁷].
balance [AdGAD14, CR10, DdG10, LRM⁺¹⁹, NPT11, PS13, RBY⁺¹⁷,
 RAKE05, RWC16, SJB⁺¹⁹, SM10, SSW19, WGC⁺¹³, WLR17, YWL⁺¹⁷].
balanced [BMN16]. **balances** [LKF⁺¹⁸]. **Balancing** [UFW⁺¹⁸]. **Balaton**
 [GTPB⁺¹¹]. **ballast** [BBM11, MAC⁺¹⁰]. **ballasting** [vdJFS⁺¹⁸]. **Baltic**
 [RCJ15, ACC⁺¹⁷, BBT⁺¹⁰, BKD⁺¹⁶, DDH⁺¹⁹, EO13, HJB⁺¹², HPS^{+10a},
 JTH⁺¹¹, KBH⁺¹⁹, KKHP14, MDSG18, MSR16, NZH⁺¹¹, Piw19, RF13,
 SLE10, SWM⁺¹⁸, SFLQ⁺¹⁹, SBH⁺¹¹]. **Baltimore** [RWM⁺¹⁹]. **banding**
 [TLB⁺¹⁶]. **Bank** [MBBG⁺¹²]. **Barbara** [BSG14]. **bardawil** [YLJ11]. **bare**
 [EMO⁺¹¹]. **Barents** [LFB⁺¹⁰]. **barnacle** [LAM12, PRL18]. **baroclinic**
 [ILPL13]. **barrel** [MBLP11, MJH⁺¹⁶, WMP⁺¹⁹]. **barretti** [LKF⁺¹⁸].
Barrier [BWS10, CUW11, LÁSDC18, MLCD13, RGG⁺¹⁰, UA10, GSZL13,
 NBG17, TvBR⁺¹⁹]. **barriers** [NG13]. **basal** [GFDC11]. **base** [JTV⁺¹⁶].
based [ALdML⁺¹⁴, BMN16, BPW⁺¹⁹, BISZ17, BLG⁺¹⁵, BDC⁺¹⁴,
 CSGW18, CMW⁺¹⁹, DRE⁺¹⁰, DB11, FFA13, FYVU17, FPP⁺¹⁹, GM12,
 HOD⁺¹⁷, JGR⁺¹⁴, KWF⁺¹⁷, LHSG15, LMR14, MMN⁺¹⁰, SOM17, SHM⁺¹⁹,
 SPMW11, SGRB10, TBLG14, VMC⁺¹³, WS18, ZWA⁺¹⁴, ZD18, ZKMT⁺¹³].
baseline [BJDMH10, DLP13, SMG12]. **basic** [HESU13]. **Basin**
 [HMV12, LBNT11, NTK⁺¹⁸, NLO⁺¹², RKL14, WMBR13, ABD⁺¹⁷,
 BMF⁺¹⁶, DL11, JABZ19, Ker17, LEK⁺¹⁸, MAD⁺¹⁵, SSGB⁺¹⁷, SI10,
 SRAB10, SRA10, VPMrI12, WZG⁺¹⁴, ERA⁺¹², MAC⁺¹⁰, PCY⁺¹⁰, WB19].
Basin-scale [NLO⁺¹², RKL14, SI10, VPMrI12]. **basins**
 [CGT16, GBC⁺¹⁷, WFK⁺¹⁶]. **basis** [JC14, LCCF10, VdRA⁺¹⁹, ZF17].
batch [BRR⁺¹³]. **bathyal** [PCF14]. **bathymetric** [NSO19]. **bathymetry**
 [BSRP⁺¹², VPMrI12]. **bathypelagic** [GCH⁺¹⁸, MVT⁺¹⁷, YYMN13]. **Bay**
 [CKB⁺¹⁶, FYC⁺¹⁸, FGMN17, GGPM⁺¹⁰, GMBL16, HNSM12, HONR11,
 MDE11, PCD⁺¹⁹, RVvdP⁺¹⁷, TNI19, MF19, CJS⁺¹⁷, DTPP12, DDF⁺¹⁰,
 GGL⁺¹⁸, GGTC⁺¹⁸, GK14, HTLM18, KHK⁺¹⁹, MGSM10, NHP17, Scu16,
 SGA⁺¹⁷, SHK13, TK12, TKB18, ZSM14]. **Bayesian**
 [CAQS16, CS12, HSBA10]. **be**
 [CR11, CBF11, DKSA19, HLFM⁺¹⁰, KPV⁺¹¹]. **beach**
 [GWN⁺¹², MBH⁺¹⁵, SWE⁺¹⁸, TvBR⁺¹⁹]. **beam** [GAH11, NLM⁺¹²].
bearing [JLRK12, UA10]. **Beaufort**
 [PvDM⁺¹³, ABD⁺¹⁷, LGC16, SSFF12, SLA⁺¹⁸, STC⁺¹¹]. **because** [Lat14].
Becker [Bre10]. **becomes** [HATF17]. **bed** [GK10, GK14, TMH⁺¹⁰]. **beds**
 [SWCL12]. **been** [BHC13]. **before** [GBS17, KHPIP⁺¹⁴, SS16]. **behavior**
 [BRF⁺¹⁷, CBP12, FDBW16, GPL11, vSGAK17, HV16, HPS^{+10a}, JSFC18,
 KSTA18a, KSY11, LWE⁺¹⁹, MCT⁺¹⁴, MFM⁺¹², NA17, SDS⁺¹¹, WCB⁺¹⁰,
 WMC⁺¹⁸, WD15]. **behavioral** [BRT⁺¹⁰, CPOMA15, LDCT11]. **behaviors**
 [KYRMD18, PGB⁺¹⁹]. **below** [OMSC13]. **Belt** [BDB⁺¹⁴]. **beluga**
 [BCF⁺¹⁷]. **beneath** [JTG⁺¹¹, SNG⁺¹⁴, VMAS⁺¹⁶]. **benefits**

[HCAF18, MBHG11]. **Benguela** [NLO⁺12]. **Benthic** [BVvB⁺19, BSY⁺16, CCW⁺19, DFWPK16, DKG15, GLF18, GAK⁺19, KYC⁺15, MBB⁺18, MDF⁺14, MGL⁺16, NHS⁺12, Spi15, SNG⁺14, WS13, AWK⁺17, AGMR14, BDP⁺19, BSM17, BNW⁺14a, BHV⁺17, BRF⁺17, BBB⁺14, CFAE⁺15, DSS⁺11, DvOR⁺16, DRP⁺17, EMO⁺11, GLS⁺13, GJWS14, GJWS16, GFDC11, GSB⁺17, GVS⁺10, GN16, HSLH⁺14, HA16, IH11, KBM⁺14, LGV13, MSSH12, MTSG18, MWS10, MBLD15, MSK⁺17, MPvBS⁺18, MDS⁺10, NCC14, NCT⁺15, NB17, PMA18, RPI⁺12, RSG11, RPB17, RBD18, SLK⁺10, SHKU11, SSH⁺14, SCP⁺16, UA10, WLS⁺11, WZG⁺14, WXMS10, WKAM⁺19, ZCL⁺19, vHOM⁺19, vOSH12]. **Benthic-pelagic** [BSY⁺16, WS13]. **bentho** [SAS⁺11]. **bentho-pelagic** [SAS⁺11]. **benthopelagic** [PCF14]. **Bering** [Tho19]. **Bermuda** [ZXN⁺12]. **Berry** [CMW⁺19]. **beryllium** [CSJ⁺14]. **best** [KPV⁺11]. **beta** [HT17b]. **Between** [ZKL⁺14, ALL⁺10a, AHH⁺16, AFG⁺16, AGCA16, BRS11, BMW10, BSN⁺14, BC19, BISZ17, BVSM15, BDU⁺19, BSSR10, BCF⁺17, CL10, CL11, CL17, DBSP⁺16, DTKMK15, ETI⁺16, FT11, GLS⁺13, GKT⁺15, HAC⁺11, HMD11, KM10, KHK⁺19, LEK⁺18, LLH⁺15, LKLH10, LFGK10, MCWB10, MHA⁺18, MBBG⁺12, PPT12, PS13, QFH18, RMF11, RSJ⁺18, RRD14, RCIB14, RPG13, RWC16, RKTLM18, SKLG10, SSH⁺16, SBK18, SSFR19, ŠSP17, TCG⁺17, TDM⁺13, VPC10, WZG⁺14, WC17, XFH14, YP18]. **Between-** [ZKL⁺14]. **Beyond** [KTRK11]. **bias** [BSB⁺18, Lat14]. **biased** [BD15]. **Biases** [SCL⁺19, Lan14]. **bicarbonate** [CF13a]. **biennial** [DdD⁺10]. **Bight** [DTL⁺19, HSC⁺14, SNvD⁺10, SBBNM14]. **binding** [BBB⁺14, SH10b]. **Bio** [DCRC16, ASK⁺11]. **Bio-optical** [DCRC16, ASK⁺11]. **bioaccumulation** [JW14, TW11]. **bioadvection** [VPWW10]. **bioassay** [GBL13]. **bioavailability** [GdG11, JSK⁺15, LÁSDC18, PCO⁺15, RM14, WCJ⁺15]. **Bioavailable** [JBLJ12, NSV⁺14]. **biochemical** [Ano21c, MPvBS⁺18, VdRA⁺19, WRWPG19]. **biochemistry** [PWF18]. **Biodegradation** [DBA16]. **biodiversity** [IBPG17, MTU18]. **bioerosion** [LSD18]. **Biofilm** [MACM11, BMBI12, MBP⁺17, Sch19, TBAS14]. **biofilms** [BLMS17, MBP⁺17]. **biogenic** [FTC10, HSC⁺11, JZZY18, KBL⁺10, KNL10, LYL⁺17, SKLG10, WLR17]. **Biogeochemical** [BSC⁺15, CT18b, MTM⁺16, SSS⁺16, THH⁺13, CA08, DHG⁺17, FPG11, MBH⁺15, MT11, MBC⁺18, MAFCD⁺18, NO17, RGB⁺19, SH10a, Spi15, SSC⁺17, SCP⁺16, TIF⁺15, TGG⁺11, UFW⁺18, XDK⁺17]. **biogeochemically** [RDB⁺16, SGS18]. **Biogeochemistry** [MVG⁺15, VMAS⁺16, ZXL⁺19, BIS⁺10, BLWV10, CHL10, GCSO14, HHM⁺18, KCM⁺10, MHPW18, RDP⁺17, SPP⁺16, TBSL17, WZC13]. **Biogeographic** [CLJ⁺19]. **Biogeography** [PVA⁺19, LCW⁺17b, SS17, TSSH19, WDMF13]. **biogeomorphological** [BBR⁺14]. **biokinetic** [TW10a]. **biolability** [MGJH18]. **Biological** [CK12, CK13, GRT⁺14, HGG⁺17, MQJG13, PML⁺19, SFLB16, ÅCA⁺18, BDB⁺14, BSM17, BVSM15, BBCM⁺13, CFD15, CGB⁺18, CMK⁺10,

FSBT16, HDK⁺¹², HKP⁺¹⁶, HLFM⁺¹⁰, HCC⁺¹³, HZC⁺¹³, KEH⁺¹⁴,
 KKH11, LBS17, LALM16, LC11, MMC⁺¹⁰, MTH⁺¹¹, MGL⁺¹³, OLF⁺¹¹,
 QWRJ10, RLC⁺¹¹, RNG⁺¹³, SBBNM14, TKK⁺¹⁷, WCP⁺¹⁵, ZCY⁺¹⁵.
Biological- [GRT⁺¹⁴]. **biologically** [HD19]. **bioluminescence** [VdRA⁺¹⁹].
biomagnification [JSB⁺¹⁴]. **biomarker** [BBS⁺¹⁸, BCF⁺¹⁷, WCV⁺¹²].
biomarkers [BAY⁺¹⁴, GLS⁺¹³, JTV⁺¹⁶, dKYH⁺¹²]. **Biomass**
 [SGJB14, BJF18, BPGE13, BBSK18, FDH⁺¹⁴, GSB⁺¹⁷, KKS10, LdJMS⁺¹³,
 LHSBP18, MRE18, PRS⁺¹⁸, PHG13, PWF18, RVvdP⁺¹⁷, SBT⁺¹⁹, SBK18,
 SPGRP⁺¹⁷, SPG⁺¹¹, YWY⁺¹⁵]. **biomasses** [YP18]. **biomechanical**
 [LdISB⁺¹²]. **biometry** [CNL⁺¹⁵]. **biomixing** [NL14]. **biomolecules**
 [CSJ⁺¹⁴]. **biophysical** [RAV⁺¹⁷, SSN12]. **biopolymers** [SH10b].
bioreactor [VPG⁺¹⁹]. **bioreactors** [DMMV15]. **biosynthesis** [GvBBB17].
biota [JPH⁺¹⁸]. **Biotic** [RZW11, DDF⁺¹⁰, HCF⁺¹⁰, WFB⁺¹¹, uGH⁺¹¹].
bioturbated [MBB⁺¹⁸]. **bioturbation** [RF13]. **Bioturbator** [TTTM⁺¹⁹].
Bioturbator-stimulated [TTTM⁺¹⁹]. **biphenyls** [CMW⁺¹⁹]. **birdfoot**
 [TT12]. **birds** [PHDH14]. **birth** [BD15]. **Biscay** [DTPP12, GGTC⁺¹⁸].
bismuth [FTC10]. **bisphosphate** [nVOH12]. **bivalve** [HSR15, WMC⁺¹⁸].
Biwa [THH⁺¹³]. **black** [DPG⁺¹², FYC⁺¹⁸, BRS18, MGHS18]. **blade**
 [RN14, ZWA⁺¹⁴]. **blades** [HRN11, RN14]. **Blanes** [GGPM⁺¹⁰]. **Bleaching**
 [MBLP11, Ano21c, BWS10, FZL⁺¹⁴, GBR14, HBD⁺¹¹, KHPIP⁺¹⁴, PST⁺¹³,
 SHKU11, SIW⁺¹¹, WRWPG19]. **Bled** [MMGP⁺¹²]. **Bloom**
 [BRF⁺¹⁷, BDB⁺¹⁴, BVSR⁺¹⁵, CR16, DVC⁺¹⁷, GLMG15, GGTC⁺¹⁸,
 HST⁺¹⁴, HMD11, HZC⁺¹³, HKS⁺¹⁵, IHSS⁺¹⁹, JHLK⁺¹⁹, JTG⁺¹¹,
 KSWFG13, LFH⁺¹², LBR⁺¹³, MTH⁺¹¹, NAH⁺¹¹, OCLW11, PKB⁺¹⁷,
 PCM⁺¹⁶, PCY⁺¹⁰, RKBA14, RKMN⁺¹³, SWD⁺¹⁴, SLG⁺¹⁴, SSH⁺¹⁴,
 SFLQ⁺¹⁹, ŠSP17, SHF⁺¹¹, TIF⁺¹⁵, WCJ⁺¹⁷, WCJ⁺¹⁵, WSTD10, ZXM⁺¹¹].
bloom-derived [WCJ⁺¹⁷]. **blooms**
 [BSY⁺¹⁶, CBS⁺¹⁷, GCSO14, HLH13, HZC⁺¹³, JTV⁺¹⁶, KG18, KIH⁺¹⁵,
 KBVW12, MQP⁺¹⁶, MGL⁺¹⁶, OFGF12, OSB⁺¹⁵, PWS⁺¹¹, QHVM18,
 SWZ⁺¹⁵, SBM⁺¹⁵, SK19, SMN⁺¹⁵, SS12b, SS12c, TF11, VHR110]. **blow**
 [NA17]. **blowout** [SSB⁺¹⁶]. **blue**
 [BBS⁺¹⁸, HBM⁺¹⁵, LPLH18, Les16, NSO19, OWM⁺¹⁸, VdSLC⁺¹⁶, HCAF18].
bodies [GGC⁺¹⁴]. **Body**
 [DOD10, DRE⁺¹⁰, HLGA17, Kiø13, OR16, PWF18]. **body-mass** [HLGA17].
Boersma [Bre10]. **bog** [CCC10]. **Bohai** [SW14, SCQ⁺¹⁷]. **border**
 [HPS10b]. **bordering** [FDS⁺¹⁸]. **boreal**
 [AAC⁺¹⁹, BLMS17, CA08, CKD⁺¹⁶, CGT16, GBP⁺¹², HHE⁺¹⁹, HGdG⁺¹⁹,
 JBLJ12, JTV⁺¹⁶, KHTO13, LKF⁺¹⁸, OBT⁺¹¹, PSB⁺¹⁶, SS16, SPSG14,
 SBK18, SH10a, SBB⁺¹⁸, SPG⁺¹¹, SSM⁺¹⁹]. **bores** [GJR⁺¹⁹]. **borne**
 [KZB⁺¹⁰, LKLH10, SS12b, SS12c]. **Bosmina** [KM10, FSST11]. **both**
 [HDK⁺¹², RWM⁺¹⁹, RVvdP⁺¹⁷, TMK⁺¹³, WDL⁺¹⁷]. **bottle** [SSC⁺¹⁷].
Bottom [LJL⁺¹⁸, WD15, BH13, DHH15, EM13, GMBL16, GdVT⁺¹¹, KT13,
 LBR⁺¹³, MGW⁺¹³, PDER10, RSG11, SPP⁺¹⁶, SHK13, SWL11, WCJ⁺¹⁷].
bottom-layer [KT13]. **Bottom-up** [LJL⁺¹⁸, WD15, BH13, LBR⁺¹³].

bottom-up- [PDER10]. **bottom-water** [RSG11]. **bound** [LFC17].
boundary [BBB⁺14, CT18a, CHPH13, DHH15, HEBS10, HCH⁺19, RLC⁺11, SMLC⁺18, SWL11, WKS13]. **boundary-layer** [SWL11]. **brackish** [FYT⁺12, PSZ⁺13]. **Brady** [HAL17]. **branched** [BAY⁺14, ZKMT⁺13].
Bransfield [MVT⁺17]. **Brazil** [AHD⁺18, CKB⁺16, FMP⁺13, NEH⁺19, PMP⁺17]. **breadth** [PWWF18].
break [OPZ13, SS16]. **breaking** [LHS19]. **breakup** [LHS19]. **Breton** [CJC⁺12]. **brevetoxin** [KPSW10]. **brevetoxins** [HST⁺14]. **brevis** [HST⁺14]. **brietest** [BDB⁺14]. **Brine** [BPL⁺19a, JW14]. **Bringing** [SIH⁺17]. **British** [CHHT18, VHM⁺10]. **Brittany** [KCL⁺14]. **broad** [AAO⁺19, BBT⁺10, MBAS⁺17]. **broad-scale** [BBT⁺10]. **broadcast** [BMC⁺16]. **Bromoform** [LM12]. **bromoperoxidase** [JBPM15, LM12].
brown [CBP10, KG18, KSWFG13, OBT⁺11]. **brown-water** [OBT⁺11].
brownification [BKA⁺14]. **browning** [NBSMN19, WSUC⁺18]. **Bryozoa** [SMF10]. **bubble** [LVDM19, VHM⁺10]. **bubbles** [RWB⁺19]. **budget** [AAC11, ACA⁺11, CKD⁺16, CAS⁺17, CWRX19, LKF⁺18, MGL⁺16, MAD⁺15, SOM17]. **budgeting** [SSB⁺16]. **budgets** [AMNU16, EMS16, HBR⁺14, MRBR10, TDM⁺13, VW17]. **buffered** [MMG16]. **bugensis** [KKS10]. **build** [SS16]. **build-up** [SS16]. **building** [BBR⁺14, CRS⁺17, ELJ⁺16, GFPSG13, JLRK12, PGRR⁺19, WGH⁺16, YLH⁺16]. **bulk** [CHL⁺17, KWB⁺16, RSN16, RGLM⁺12]. **Buoyancy** [STCS10, PT11, WMI⁺17]. **buoyant** [LN11, SVS⁺19]. **burial** [AC17, EMS16, KBH⁺19, MMGO⁺17a, RRAS17, SML⁺19]. **burning** [Dem19, YWY⁺15]. **Burraborang** [VHr10]. **Bythotrephes** [BSBK13, BBB⁺17, BBS12, WL17, WL18].

C [Bre14, CHL⁺17, CKCEP10, DPM18, HBZ12, KPJ12, MMGO⁺17b, MMXC15, MMPSB14, OEMB10, OEM12, ORGE16, PFH⁺17, UA10, WL16, WCCP14, YJO⁺19, dKYH⁺12]. **C-labeling** [OEMB10, OEM12, ORGE16]. **C**. [JMN15, PPT12]. **Ca** [HATF17]. **Cable** [KWM⁺19]. **Cadmium** [BC19, BAG⁺14, LFC17, MBC⁺18, TW11, WMBR13, XSAM12].
cadmium-phosphate [WMBR13]. **caespitosa** [FPPA⁺11, FPGR⁺13].
calanoid [BD15, DHK11, GPL11, KNA⁺14, MTU18, PJ16, TW10b, WFR10].
Calanoida [HAL17]. **Calanoides** [PT11]. **Calanus** [CBP12, FGMN17, FNSS15, HTL⁺18, HKS⁺15, JWGH19, JMNG⁺13, JMN15, MHA⁺18, MMJ⁺12, PPT12, TGG⁺11, VGJ17]. **Calcareous** [VFS⁺15, TTV⁺13]. **calcification** [BSCC15, DSM⁺18, FRA⁺17, MBC⁺16, MLGZ16, SBdB10, SLC18, SHD⁺11, THFG16, WCS⁺18]. **calcifiers** [CESC13, CESC14, SHD⁺11]. **calcifying** [SBdB10]. **Calcite** [BDB⁺14, PE17]. **Calcium** [KWGN⁺10, SPS19, AA18, MMG16, PWF16, RPI⁺12, SPTS15, TW10a].
calculations [Kus14]. **California** [HSC⁺14, KH16, SNvD⁺10, BSG14, BPA12, BPPF12, BTC⁺19, BWS⁺14, BBB⁺14, Car10, CDA16, DLP13,

FCD12, HMV12, HONR11, LBNT11, MMC⁺¹⁰, MBC⁺¹⁸, MQJG13, NSO19, OFGF12, PMLC⁺¹⁰, PMPD13, SMM11, SBM⁺¹⁵, SLBNG11, SSGM18, TSC⁺¹⁹, TGGZS⁺¹⁰, WM12, WAB⁺¹⁷]. **camouflage** [JGR⁺¹⁴]. **Can** [AdBVA10, CBF11, HBM⁺¹⁵, LFC17, CR11, FPD⁺¹⁰, GHS14, KPV⁺¹¹, SGH12, SOM17, Sha10]. **Canada** [RKWH18, AMQ⁺¹¹, BSCG17, BPW⁺¹⁹, BLS⁺¹⁶, FLM⁺¹⁹, Ker17, MPM⁺¹⁵, MGSM10, RPMK17, RPH⁺¹⁰, ZHN⁺¹⁰, vdHHC⁺¹⁹]. **Canadian** [AA18, BAG⁺¹⁷, BBM11, DMMV15, TLG⁺¹¹]. **Canary** [BAA⁺¹³, BSB⁺¹⁰]. **cannibalism** [FGMN17]. **cannot** [MLS⁺¹⁴]. **canonical** [WLO⁺¹⁹]. **canopies** [AGLM17, AGML18, HE10, WZTK15]. **canopy** [ARB⁺¹⁹, GK10, SVLS⁺¹⁶, SCPE15]. **canopy-forming** [ARB⁺¹⁹, GK10]. **Canyon** [HYK⁺¹⁵, SPFP11]. **canyon-shaped** [SPFP11]. **canyons** [KCL⁺¹⁴]. **capabilities** [TSK13, VIS⁺¹³]. **capacities** [CMS⁺¹⁸]. **capacity** [CCV⁺¹⁸, MMGO^{+17b}, MHH⁺¹⁷]. **Cape** [MBBG⁺¹²]. **capricorni** [EMO⁺¹¹]. **capsules** [CSGW18]. **capture** [SGCC16, TSK13]. **carbohydrate** [AMNU16]. **carbohydrates** [OEMB10]. **Carbon** [BTH⁺¹⁶, CAS⁺¹⁷, CSME13, DvOR⁺¹⁶, GCH⁺¹², HV16, HAC⁺¹¹, HLFM⁺¹⁰, HCAF18, JM16, LCM⁺¹², OBM⁺¹¹, OBT⁺¹¹, SML⁺¹⁹, WYL16, vOSH12, AWG⁺¹², AACS11, ACA⁺¹¹, AC15, AC17, ARB⁺¹⁹, BRR⁺¹³, BSCG17, BBS⁺¹⁸, BHW⁺¹², BBLN11, BMBI12, BDS11, BHD⁺¹⁷, BMD17, BOT⁺¹⁵, BAY⁺¹⁴, BCF⁺¹⁷, CF13a, CEPPR14, CPPdAR⁺¹³, CKP⁺¹⁵, CRJ⁺¹⁴, CFB14, CTG15, CCW⁺¹⁹, CKD⁺¹⁶, DFWP16, DIC⁺¹⁸, DTPP12, DBA16, DNH⁺¹⁸, Dem19, DPG⁺¹², DKSA19, DRP⁺¹⁷, DBC⁺¹³, DVDB16, EBMR12, FYC⁺¹⁸, FHR⁺¹⁵, FCRW⁺¹⁶, FB12, FLP⁺¹⁰, FDS⁺¹⁴, GFH13, GJWS14, GJWS16, GWB⁺¹⁴, GBP⁺¹², GdG11, GBS17, GHSR⁺¹⁶, HHE⁺¹⁹, HGG⁺¹⁷, HBR⁺¹⁴, HHM⁺¹⁸, HLJ12, HNHS⁺¹⁵, HBM⁺¹⁵, HEH⁺¹⁷, HSTK15, HMM⁺¹⁶, HRPW15, HGT⁺¹⁸, HDDH⁺¹⁷, HEBS10, HVD⁺¹⁸, JHD⁺¹¹, JMM14, Joh10, JP10, JTG⁺¹¹, KYC⁺¹⁵, KHTO13, KCL⁺¹⁴, KZB⁺¹⁰, KKH11, KLEH16, KBT16, KGL⁺¹⁶, KPJ12]. **carbon** [KRB⁺¹⁸, KOFN11, LRM17, LH17, LdJMS⁺¹³, LKF⁺¹⁸, LCH⁺¹⁴, LZC⁺¹⁴, MSGS⁺¹³, MMC⁺¹⁰, MMGO^{+17a}, MZH15, MBLD15, MGS12, MHH⁺¹⁷, MMPBS14, MPvBS⁺¹⁸, MCYR17, MGSM10, OCR10, OEM12, ORGE16, OCLW11, OWM⁺¹⁸, OVRJ13, PCD⁺¹⁹, PBL⁺¹⁸, PLS⁺¹⁶, PHG13, PHLSSS19, RRAS17, RMF11, RR13, RM14, RCH⁺¹⁵, RASV⁺¹⁷, RHSD⁺¹⁰, RHDTs⁺¹¹, RKTL18, SSFF12, SVLS⁺¹⁶, SCR⁺¹², SBvH⁺¹⁵, SHT⁺¹⁷, SLP⁺¹⁴, SLA⁺¹⁵, STC⁺¹¹, SLH⁺¹⁵, SMG12, SFLQ⁺¹⁹, SPR⁺¹⁵, SBH⁺¹¹, SL10b, SLBNG11, SBKO18, SSGM18, SHL⁺¹⁸, SH11, SCP⁺¹⁶, SSS⁺¹⁹, TYX⁺¹⁹, TFH17, TJJ⁺¹⁵, TDM⁺¹³, TTTM⁺¹⁹, TW10b, TBSR13, TMH⁺¹⁰, UFW⁺¹⁸, UIY⁺¹¹, VW17, VFS⁺¹⁵, WLS⁺¹¹, WWC⁺¹³, WLG⁺¹⁶, WKG⁺¹⁶, WDCH18, WWC⁺¹⁸, WMC⁺¹⁵, WCJ⁺¹⁵, WC17, WGH⁺¹⁰, WBB⁺¹⁷, WDL⁺¹⁷, WLHW13, XZGW17, ZZN⁺¹², ZHN⁺¹⁰, ZYZ19, ZMWM11, ZHD⁺¹⁶, ZCK⁺¹⁶, dKYH⁺¹², dKNL⁺¹⁵, vdJFS⁺¹⁸, vEG10]. **Carbon-to-chlorophyll** [JM16]. **Carbonate** [BG10a, JCF⁺¹⁰, CSME13, GDD⁺¹⁶, HCAF18, KWGN⁺¹⁰, MBC⁺¹⁶,

MMG16, NEH⁺¹⁹, PLS⁺¹⁶, RPI⁺¹², SPS19, SPTS15, WYL16, YH17].
carbonate-buffered [MMG16]. **carbonation** [BRS11]. **carbonyl** [ZYZ19].
carboxylase [nVOH12]. **carboxylase/oxygenase** [nVOH12]. **carcasses**
 [DJS18, EHT10, GGL⁺¹⁵, KGT12]. **Carcinus** [GGC⁺¹⁴, MCT⁺¹⁴].
Caribbean
 [ASR⁺¹⁷, BJDMH10, CMMKH12, Edm15, HGT⁺¹⁸, LABJ18, MDS⁺¹⁰].
carotene [YLJ11]. **Carotenoid** [SGVR16, SGME11]. **Caryophyllia**
 [CRB⁺¹⁷]. **Caryophylliidae** [CRB⁺¹⁷]. **cascade** [WLV17]. **cascades**
 [FPSL18, PLE⁺¹⁷]. **cascading** [WHL⁺¹¹]. **case**
 [BAY⁺¹⁴, CSJ⁺¹⁴, IGP⁺¹², LDY⁺¹⁶, PHL⁺¹⁸]. **Cast** [vHOM⁺¹⁹].
catchment [BBLN11, BSM17, BHM⁺¹⁷, KKP⁺¹⁹, RAB⁺¹⁷, TTV⁺¹³].
catenella [BRF⁺¹⁷]. **Caught** [AAO⁺¹⁹]. **Caulerpa**
 [EMO⁺¹¹, OBM⁺¹¹, RSTS⁺¹⁸]. **cause** [Les16, SKV⁺¹⁹, SHD⁺¹¹]. **caused**
 [BLS⁺¹⁶, HZC⁺¹³, LC11]. **causes** [FEW⁺¹⁴, HCH⁺¹⁹]. **causing** [SMN⁺¹⁵].
cavernicolous [MGT15]. **cavity** [VMAS⁺¹⁶]. **Cayuga** [EP14, PE16b].
CDOM [CDA16, DVC⁺¹⁷, WSM⁺¹⁹]. **Cell**
 [FAF⁺¹², BFW⁺¹³, CL10, CBS⁺¹⁷, CLWD13, DSM⁺¹⁸, GC16, HPS10b,
 MDE11, NTA14, RGLM⁺¹², SDMK10, SBFB17, TNMV⁺¹⁰]. **cells**
 [BCRC16, Clo18, KS13]. **Cellular**
 [FDBW16, BRR⁺¹³, DBC⁺¹³, HST⁺¹⁴, KBHT19, SMH⁺¹¹]. **centenary**
 [GPA⁺¹⁴]. **Center** [SPB⁺¹⁴]. **central**
 [ÁSNCA⁺¹³, ERA⁺¹², GFT⁺¹⁴, HWZ13, KGL⁺¹⁶, MVL⁺¹⁰, MGW⁺¹³,
 NO17, PCY⁺¹⁰, SWM⁺¹⁸, YYMN13, GTPB⁺¹¹]. **centric** [QFH18].
Century [MTU18, BLS⁺¹⁶, Edm15, PDER10, RPH⁺¹⁰, SSM⁺¹⁹]. **CH**
 [CKB⁺¹⁶, NSG⁺¹⁶, PMY19a, RMH⁺¹⁷]. **chain**
 [BTJ⁺¹², FLP⁺¹⁰, YKBJL12]. **chain-forming** [YKBJL12]. **Challa**
 [WKJS⁺¹⁴]. **challenged** [JSFC18]. **challenges** [APS⁺¹⁹, GM12, SOO⁺¹⁷].
chamber [VPC10]. **chambers** [GJWS14, GJWS16]. **change**
 [BSB⁺¹⁸, BBQ⁺¹⁰, BLS⁺¹⁶, DDF⁺¹⁰, FDB⁺¹⁵, GSBR11, HMO⁺¹⁸, Hir12,
 JBB⁺¹⁶, KTK⁺¹³, LSH⁺¹⁷, Les16, LHS19, NUH⁺¹², PHDH14, RBG⁺¹⁰,
 RG13, SFS⁺¹⁶, VHR10, VBG⁺¹³, WRO⁺¹¹, WGM16, WBZ⁺¹⁴, WRH⁺¹⁷,
 WHR18, ZEXH15]. **changed** [BHC13]. **Changes**
 [DMSHC16, JSK⁺¹⁵, KK13, LMR14, MU17, RWM⁺¹⁹, TMH⁺¹⁸, YP18,
 BGW⁺¹⁵, BAG⁺¹⁷, BBK⁺¹⁵, BCF⁺¹⁷, BSH16, DCCB17, DML17, DHZ⁺¹⁹,
 FWWF18, GMD11, GdVT⁺¹¹, HPS^{+10a}, HML⁺¹⁴, KMC⁺¹⁵, LG16,
 MTH⁺¹¹, MKK15, MPvBS⁺¹⁸, MMJ⁺¹², PvEF12, PCO⁺¹⁵, PMP⁺¹²,
 PCM⁺¹⁶, PDER10, PSNE15, QHVM18, RM14, RSE⁺¹⁷, RGLM⁺¹², RPL16,
 SMLC⁺¹⁸, SGA⁺¹⁷, SW11, SSM⁺¹⁹, TWP13, VKC18, WP14, ZWL⁺¹⁴].
changing
 [FOT⁺¹⁵, GDD⁺¹⁶, JMNG⁺¹³, PHL⁺¹⁸, Spi15, SSM⁺¹⁹, SHF⁺¹¹, VPG⁺¹⁹].
Changjiang [GLI⁺¹⁵, WLG⁺¹⁶, WCJ⁺¹⁷, ZYZ19]. **Channel**
 [BSG14, CVS⁺¹⁰, GNHGM13, JWS15, KH16]. **channeled** [FRP⁺¹⁴].
Characteristics [ZZY⁺¹⁰, AJ15, CT18b, FBV11, FPG11, FDBW16,
 GSBR11, JZZY18, LC12, ŠGH⁺¹⁸, SHL⁺¹⁸, WYW⁺¹⁰]. **Characterization**

[DWDH10, DBV⁺¹¹, LTH⁺¹², SS17, TLH⁺¹¹, NRS16, RS19, SCPE15, WM12, WDX⁺¹¹]. **Characterizations** [PE17]. **Characterizing** [BBS⁺¹⁸, JD16, WSTD10]. **chase** [EOM16, MMPSB14]. **Chelator** [MTW12]. **Chelator-induced** [MTW12]. **Chemical** [DHH15, FMP⁺¹³, HJMD13, LCS⁺¹⁹, RAKE05, SBC⁺¹⁷, BDB⁺¹⁴, BMPF19, BSBK13, CMK⁺¹⁰, DL11, LG16, LKK13, MVL⁺¹⁰, MTH⁺¹¹, SBDS⁺¹⁵, TWWY18, CR10]. **chemically** [SPO⁺¹⁸]. **chemistry** [BG10a, GDD⁺¹⁶, GM12, LSHK11, MBC⁺¹⁶, MHRH11, MMH⁺¹⁸, PCD⁺¹⁹, SBdB10, TMH⁺¹⁸]. **chemoautotroph** [MWS10]. **chemoautotrophic** [MGT15]. **Chemoautotrophy** [MRC⁺¹⁶]. **chemocline** [BNW^{+14b}]. **chemostat** [FDBW16]. **chemostats** [NCC14]. **chemosynthetic** [LFB⁺¹⁰]. **chemotypes** [ALdML⁺¹⁴]. **Chesapeake** [DDF⁺¹⁰, GMBL16, GGL⁺¹⁸, GK14, Scu16, SHK13, TK12, TKB18, ZSM14, ZHG15]. **Chidami** [SH10a]. **Chile** [GFT⁺¹⁴, dIFN10]. **Chiloscyllium** [WLS⁺¹¹]. **China** [CFD15, DWDH10, GLI⁺¹⁵, GBD⁺¹⁰, HCW⁺¹⁰, HCLS11, JZZY18, SW14, WDX⁺¹¹, XDC⁺¹⁹, ZCY⁺¹⁵, ZYZ19, ZXL⁺¹⁹, CCK⁺¹², JHW⁺¹⁹, LCW^{+17b}, LYL⁺¹⁷, MQP⁺¹⁶, TGC⁺¹⁰, WXF⁺¹⁵, WLG⁺¹⁶, XXZ⁺¹⁹, XPQ⁺¹⁰, ZZY⁺¹⁰, ZWL⁺¹⁴, ZZW16, dKYH⁺¹², dKNL⁺¹⁵]. **Chinese** [MNW⁺¹⁹, PCPZ18, WWC⁺¹⁸]. **chironomid** [CSGW18, SWP11, VHR⁺¹¹]. **Chironomidae** [REDW10]. **chironomids** [RHV⁺¹³]. **Chironomini** [HNHS⁺¹⁵]. **Chironomus** [SPPS10]. **chitinase** [BB11]. **Chl** [LLB17]. **Chl-a** [LLB17]. **chloride** [CR10, RAKE05]. **Chlorophyll** [ESMS13, BRR⁺¹³, FWS⁺¹⁴, FWO⁺¹⁸, FAF⁺¹², HGD14, IH18, JM16, LCM⁺¹⁷, LBC⁺¹⁸, Lee18, LBS17, MSSH12, MRH⁺¹⁵, XDC⁺¹⁹]. **chlorophyll-a** [FWO⁺¹⁸, Lee18]. **Chlorophyll-normalized** [ESMS13]. **chlorophyll/biological** [LBS17]. **chlorophyte** [GBL13]. **cholesterol** [SW11]. **cholesterol-induced** [SW11]. **Chondrosia** [SWM⁺¹⁰]. **chromophoric** [CSÁS⁺¹⁰, CDA16, DVC⁺¹⁷, FB12, RCSÁS⁺¹⁰, XSAHV13, ZZY⁺¹⁰]. **chronically** [PKWS19]. **Chrysaora** [RG13]. **Chubut** [HPM⁺¹⁰]. **Chukchi** [MBLD15, PvDM⁺¹³, SLA⁺¹⁸, SFI⁺¹⁸]. **ciliate** [FPP⁺¹⁹, JJ17, LEG⁺¹⁰, ŠGN⁺¹⁹]. **ciliated** [WOC⁺¹⁸]. **Ciliates** [ZPK⁺¹², JB19, SBFB17]. **Circle** [PMRRA19]. **circuit** [PD11]. **circulation** [MGSM10, NI10, NHP17, RKL14, RPL16, SPSG14, SMA15, TvBR⁺¹⁹, VAH11]. **Circumpolar** [TT14]. **citrate** [SMLC⁺¹⁸]. **Clade** [DNH⁺¹⁸, RWM⁺¹⁴]. **clades** [AGCA16]. **cladocera** [PZHD18, FSST11, MXWC11]. **cladoceran** [BBB⁺¹⁷, KM10, VHR⁺¹¹]. **cladocerans** [TW10a, TW11]. **Cladocora** [FPPA⁺¹¹, FPGR⁺¹³]. **Cladosporium** [RJFMG17]. **clam** [BMDC10, MAS⁺¹⁶, SDS⁺¹¹]. **clams** [BRM⁺¹⁹]. **clarity** [BGW⁺¹⁵, GDCM13, LH19]. **classification** [AC15, NRS16]. **classifying** [SAH⁺¹⁹]. **clay** [DMN15]. **cleaning** [CGB⁺¹⁸]. **clear** [CKCEP10, HS11, MSSH12, OBT⁺¹¹, TAE⁺¹⁸]. **clear-water** [CKCEP10, OBT⁺¹¹]. **clearance** [AvSGK18]. **clearly** [PSH⁺¹¹]. **Climate** [EKS⁺¹⁸, Les16, LHSBP18, RSE⁺¹⁷, SFS⁺¹⁶, SGG⁺¹¹, BJ15, BBQ⁺¹⁰,

BLWV10, CJHR19, DHZ⁺19, FWO⁺18, FVSL19, GMGM⁺13, GSBR11, HW16, JBB⁺16, KTK⁺13, LHS19, MMB17, MWC⁺16, NWT⁺19, PMLC⁺10, PHL⁺18, RBG⁺10, RCIB14, RG13, RAV⁺17, SLE10, SRAB10, SRA10, VHR10, VBG⁺13, WGM16, WBZ⁺14, WRH⁺17, WHR18, ZHN⁺10, ZEXH15, vEG10]. **Climate-index** [SGG⁺11]. **Climate-induced** [EKS⁺18, DHZ⁺19]. **Climatic** [WDH⁺17, MHPW18, WP14, WOC⁺18, ZWL⁺14]. **clocks** [HTL⁺18]. **Clonal** [MNW⁺19, LGW⁺19]. **closed** [SRAB10, SRA10]. **closed-basin** [SRAB10, SRA10]. **Closing** [LRM⁺19]. **closterium** [BC19]. **Clupea** [DDH⁺19, KKHP14, KMH⁺17]. **cnidarian** [DBMP⁺11]. **Co** [CLFW17, CR16, GWSEA10, MdBKL13, MCYR17, APB⁺17, BR17, BOT⁺15, CCV⁺18, CGP⁺19, CESC13, CWHP14, DSM⁺18, EO13, HST⁺14, HLSW⁺15, HXS⁺10, HCAF18, HCC⁺13, HCL⁺18, KRR16, Man10, MSR16, NWT⁺19, OLC18, PMY19a, PSG⁺16, QFH18, RR12, RMH⁺17, RHMSE15, SSU⁺16, SYW18, TJJ⁺15, VSdG17, VTH⁺18, WYL16, YH17]. **co-exist** [CR16]. **Co-existence** [CLFW17, MCYR17]. **co-limitation** [GWSEA10, MdBKL13]. **coal** [VB17]. **coarse** [CHW14, WLL⁺11]. **coarse-grained** [CHW14]. **coast** [BWS⁺14, GHSR⁺16, KSG⁺10, MQJG13, RPMK17, VdRA⁺19, CWHP14, JCF⁺10, LLH⁺15, MWBM19]. **Coastal** [GYP⁺18, JAS⁺15, WMT⁺12, AGLM17, AGML18, AWG⁺12, AWK⁺17, AAIA14a, AAIA14b, ACA⁺11, AJC15, ABD⁺17, ADS⁺17, ACC⁺17, ARB⁺19, BSR⁺17, BSCG17, BPPF12, BAG⁺17, BG10a, BPV⁺19, BSB⁺18, BBJ⁺19, BBQ⁺10, BHM⁺17, CCV⁺18, CPG⁺10, CMM⁺11, CDA16, CFVU11, CKB⁺16, CSD10, CWHP14, DMS⁺18, DL11, DBC⁺13, EBMR12, FDS⁺14, GFT⁺14, GGPM⁺10, GGC⁺14, GLMG15, GWSEA10, GvBBB17, GBB19b, GK10, HDK⁺12, HVJ⁺19, HSC⁺14, HCAF18, HVD⁺18, JM16, JHW⁺19, JPH⁺18, KBH⁺19, KYR⁺12, KYG⁺12, KPSW10, KTK⁺13, KSG⁺10, KMH⁺17, LRY12, LK15, LSH⁺17, LCH⁺14, LCZ⁺19, LÁSDC18, LRM⁺19, MGGS18, MSSH12, MJJMM17, MCC⁺10, MBO⁺16, MBBG⁺12, MS13, NEH⁺19, NPT11, OPA⁺14, PSG⁺16, PWS⁺11, Piw19, QWRJ10, RSG11, RSM13, RPG13, RGB⁺19, RETS16, SBT⁺19, SLE10, SKGT17, SWD⁺14, SSH⁺16, SEYJ11, SSP⁺18, SBC⁺17, SRM⁺18, SMW⁺18, SOH⁺18]. **coastal** [SH10b, SDMK10, TNI19, TDF⁺17, TWP13, TZD⁺15, VFME18, VLMTEW11, VPG⁺19, WWC⁺13, WKG⁺16, WSM⁺19, WGJ⁺19, WM17, WDL⁺17, YMB⁺18, ZCY⁺15]. **coasts** [BBM11, HW16, MFL11, WWC⁺13]. **cobalt** [HS18, MBC⁺18, NLO⁺12]. **Coccolithophore** [MBC⁺16, PCY⁺10, BRS11, BDB⁺14, BPL⁺19b, FRA⁺17, FCC11, KRR16, RR12, THFG16, ZKL⁺14, ZBSR15]. **coccolithophores** [DTPP12, GYP⁺18]. **coccoliths** [BSCC15, SBFC18]. **Cochlodinium** [JLG10, JLG11]. **cocultures** [BSMC12]. **cod** [JTH⁺11]. **codeterminants** [PH13]. **coefficient** [FB12, GAH11, Kus14, ZD18]. **coefficients** [BA14, RDT⁺14]. **coexist** [WBZ⁺13]. **Coexisting** [LLL10]. **Coherent** [SSM⁺19, dGCB⁺11]. **cohesive** [SPP⁺16]. **cold** [ÅCA⁺18, CCW⁺19, CBF10, GDD⁺16, KCL⁺14, LGC13a, LGC13b, MKB⁺19, Tho19, WRB⁺19]. **cold-core** [WRB⁺19]. **cold-pool**

[Tho19]. **cold-seep** [CBF10]. **cold-water** [GDD⁺¹⁶, KCL⁺¹⁴, LGC13a, LGC13b, MKB⁺¹⁹]. **coli** [GWN⁺¹²]. **Colimitation** [GFH13, ARML10, BG10b, OWS⁺¹⁷]. **collaborative** [KWF⁺¹⁷]. **Collecting** [Ano19c, GBB⁺¹⁸]. **collection** [SSC⁺¹⁷]. **colloidal** [SH10b]. **colonial** [SJM11, WKK⁺¹¹]. **colonies** [HBD⁺¹⁶, SIW⁺¹¹]. **Colonization** [BBB⁺¹⁷, BDC⁺¹⁴, MKBSK19, RBM14]. **Colonizing** [MSS⁺¹⁸]. **colony** [HNZ⁺¹⁶]. **color** [FSCB11, SBK18]. **Colorado** [HYK⁺¹⁵]. **Colored** [NWT⁺¹⁹, TZD⁺¹⁵, TAV⁺¹⁰, UVGS10]. **Columbia** [CHHT18, CFF⁺¹⁷, DBRB⁺¹⁵, GPS15, PHPH⁺¹⁶, SRAB10, VHM⁺¹⁰]. **column** [AFG⁺¹⁶, BNW^{+14b}, DWDH10, ERA⁺¹², FDS⁺¹⁸, HCK10, HHM⁺¹⁸, HJB⁺¹², HD19, Kir13, MRC⁺¹⁶, SSB⁺¹⁶, UA10, VLDM19, WDX⁺¹¹, WBZ⁺¹³, ZOB⁺¹⁵]. **columns** [AdBVA10]. **combination** [HAL17]. **Combined** [TJJ⁺¹⁵, BRT⁺¹⁰, HSLH⁺¹⁴, KGC⁺¹², LABJ18]. **Combining** [KFJ13, WS18]. **Comment** [APF⁺¹⁸, CL11, KBA⁺¹⁴, Lat14, MLS⁺¹⁴, PJ16, PSH⁺¹¹, PHJ12, SLU11, SM11b, SDH⁺¹⁴, ACC⁺¹⁹, KVA18, KGC⁺¹⁶, Lan14, SH10a]. **comments** [BHC14]. **Common** [FMGR⁺¹¹, ASR⁺¹⁷, BH16, HS10, HTLM18, KNA⁺¹⁴]. **communities** [ASA⁺¹⁸, BFW⁺¹³, BLW15, BDS11, BMM⁺¹³, BPPF12, CBF10, CPF16, DTKMK15, DdG10, DBC⁺¹³, EMO⁺¹¹, FPP⁺¹⁹, FT11, FBFR13, FEC⁺¹⁶, GBC⁺¹⁷, GAK⁺¹⁹, HRMD19, HS11, HVD⁺¹⁸, KCH⁺¹², KTK⁺¹³, KGvdH16, KvdPB18, LUM15, MTM⁺¹⁶, MWS10, MVNG11, MU17, MSM⁺¹⁷, ORC⁺¹⁷, PCPZ18, RLC⁺¹¹, Rie15, RPB17, RSTS⁺¹⁸, RPH⁺¹⁰, SGJB14, SLA⁺¹⁸, SPHVA19, SMR⁺¹⁷, TGC⁺¹⁰, TBAS14, VFME18, VP15a, VLJ⁺¹⁰, VML⁺¹⁹, WVV⁺¹¹, WKAM⁺¹⁹, ZEXH15, ZOB⁺¹⁵]. **Community** [CSC⁺¹¹, KHPIP⁺¹⁴, SPB⁺¹⁴, ABB⁺¹⁴, AdGAD14, ANP⁺¹⁴, AJC15, ABD⁺¹⁷, BA14, BSG14, BAG⁺¹⁷, BRS18, BMD17, BHB⁺¹², CB12, CCK⁺¹², CFVU11, CKCEP10, CVS⁺¹⁰, DKG15, DBRB⁺¹⁵, DBFL11, DDF⁺¹⁰, DMB⁺¹², ETKL16, FMM⁺¹⁴, GTPB⁺¹¹, GEC⁺¹⁷, GWD⁺¹⁶, GWB⁺¹⁴, GSB⁺¹⁷, GCH⁺¹², GN16, HSLH⁺¹⁴, HMFB16, HHHT19, HVJ⁺¹⁹, HLJ12, HHS⁺¹⁸, HPS10b, HEBS10, HCH⁺¹⁹, KEH⁺¹⁴, KT13, KHH19, KTS⁺¹⁴, KMP⁺¹¹, KMH⁺¹⁷, KPV⁺¹¹, LSH⁺¹⁷, LCW^{+17b}, LFGK10, LTX⁺¹⁷, LDT⁺¹¹, MH16, MPSA17, ML19, Meh10, MVT⁺¹⁷, MGL⁺¹³, MvdPK⁺¹⁵, MRE18, MGT15, NFW13, OALD10, PCM⁺¹⁶, RBCS16, SNM11, SPP⁺¹⁶, SFI⁺¹⁸, ŠGH⁺¹⁸, SSH⁺¹⁴, SKKV11, SPG⁺¹¹, SVG⁺¹⁸, SSC⁺¹⁷, TCG⁺¹⁷, TLR⁺¹³, VKC18, VMCM⁺¹⁷, WVGB10, WCJ⁺¹⁵, WXMS10, WZBW⁺¹¹]. **community-wide** [Meh10]. **Comparative** [ACD10, DBFL11, MTK⁺¹⁷, SH10a, XFH14, BPPF12, RF13, UIY⁺¹¹]. **compared** [EMO⁺¹¹]. **Comparison** [LSHK11, WCB⁺¹⁰]. **comparisons** [TDS⁺¹⁰]. **competing** [APF⁺¹⁸, KG18, KVA18]. **Competition** [BVSM15]. **Competitive** [HS18]. **complementary** [AHJS15, APF⁺¹⁸, KVA18]. **Complex** [FT11, CHPH13, FDB⁺¹⁵, LTH⁺¹², MNW⁺¹⁹, PMP⁺¹², PTS12, RNT⁺¹⁹, VMMS⁺¹³]. **complexed** [SMH⁺¹¹]. **complexes** [JBT11, XSAM12]. **complexity** [PH13, SVLS⁺¹⁶]. **component**

[HLFM⁺10, KFP⁺18, PDP⁺10, PE16b]. **components** [LBR⁺12]. **composed** [GN16]. **Composition** [CBP12, OEMB10, SLA⁺18, ALL⁺10a, AAIA14a, AAIA14b, Ano21c, ABD⁺17, BHB⁺12, BSMC12, CWF11, CKCEP10, DBFL11, DMB⁺12, FUS⁺16, GWD⁺16, GSB⁺17, HVJ⁺19, HSTK15, HCW⁺10, HCLS11, HMFF10, HMFF12, JSK⁺15, Kiø13, KPV⁺11, LLB17, LVDM19, LGV13, LYH17, LFGK10, LBNT11, MVL⁺10, MPONC⁺17, MTM⁺16, MMXC15, MPSA17, ML19, MVT⁺17, MGJH18, NLM⁺12, NFW13, NCT⁺15, OWFS11, PCO⁺15, RKG⁺11, RSTP12, RSN16, RVvdP⁺17, SKLG10, SBvH⁺15, SFB12, SKKV11, SPG⁺11, SVG⁺18, SYW18, SSC⁺17, TCG⁺17, TEZ⁺18, WM12, WRWPG19, WXMS10, WTC⁺17, WJHS18, WSB⁺13, YJO⁺19, ZZAC13]. **Compositional** [SLC⁺16, BWBB15]. **compositions** [CFD15, CPHD15, KFP⁺18, PMA18]. **compound** [HOD⁺17]. **compound-specific** [HOD⁺17]. **compounds** [DTL⁺19, DJD⁺14, GRPB⁺17, JZZY18, TWWY18]. **comprehensive** [RASD10, WFB⁺11]. **computation** [KLEH16]. **Concentration** [CHPH13, MWBM19, BLG⁺15, GC16, GJWS14, GJWS16, HWZ13, HSTK15, Lee18, PSG⁺16, RNK⁺16, RSN16, SZH⁺10, SMG12, ZF17, ZTS13, ZMS⁺18]. **Concentrations** [HKS⁺15, TKK⁺17, ADS⁺17, AAC⁺19, BBJ⁺19, BRS⁺13, CKB⁺16, FNSS15, GMBL16, GNHGM13, HKU⁺10, KHK⁺19, ML19, MKG⁺15, PHG13, RR13, RMNZ12, SES18, SLP⁺14, TAV⁺10]. **concept** [GMJW13]. **concerted** [BVS⁺15]. **conchilega** [BBR⁺14]. **concordance** [FSST11]. **condition** [BRNS18, LBR⁺13]. **conditioned** [SGME11]. **conditions** [ANP⁺14, ASR⁺17, BHB⁺12, BSBK13, DBA16, FVSL19, GPCJ16, GAH11, GWD⁺16, HRPW15, IGP⁺12, KIH⁺15, KHH19, LG10, MKB⁺19, MU17, NCT⁺14, NLHAA⁺17, PCY⁺10, RLC⁺11, SHD⁺11, VTH⁺18, VFS⁺15, WDH⁺17, WBB⁺17, ZSM14, dCGS19]. **conducted** [UFW⁺18]. **conduit** [PMY⁺19b]. **conduit-** [PMY⁺19b]. **conduits** [NZH⁺11]. **configuration** [JLR⁺17]. **confirmed** [ZXM⁺11]. **Congo** [HSC⁺11, SSC⁺10, WMBR13]. **Congruent** [PHDH14]. **conjunction** [NCT⁺14]. **connection** [GGC⁺14]. **connectivity** [AWG⁺12, BCDR⁺19, Car10, KPP⁺18, NG13, OMSC13, RNG⁺13, SBB⁺18, SS19, WMT⁺12]. **Consequences** [AdGAD14, GPL11, MCWB10, BL13, HL13, VMC⁺13]. **conservation** [MTU18]. **consideration** [SM11b]. **Consistency** [WTC⁺17]. **Constance** [BSSW11, WBS⁺10, WP14]. **constants** [CLLH14]. **Constrained** [GBP⁺12]. **constraints** [AAO⁺19, HJT⁺13a, HJT⁺13b, MHH⁺17, SMC⁺10]. **constructed** [EED10]. **construction** [KTH⁺19]. **consumer** [BH13, CJWS15, LGV13]. **consumer-resource** [BH13]. **consumers** [BLJ13, CWF11, DRE⁺10, KBA⁺12, KBA⁺14, MDF⁺14, WSUC⁺18, WKAM⁺19]. **Consumption** [HGT⁺18, BPB⁺17, CBP10, FWFB10, HDK⁺12, KBE⁺17, LALM16, LALGM18, MMN⁺10, SRCL⁺13, UFW⁺18]. **consumptive** [MHA⁺18]. **contaminated** [BHB⁺19]. **contamination** [GWN⁺12]. **contemporary** [GBS17]. **content** [BWS⁺14, CBF11, CFB14, FLLH18, JWGH19, LLB17, ORC⁺17, TW10a].

contents [GAM⁺19]. **context** [MHRH11, RG19]. **Continental** [CBP10, BRR⁺13, BK11, GFDC11, HDK⁺12, HGM10, JAZ⁺10, JBT11, KSFT13, LPLH18, LDT⁺11, MRBR10, MBAS⁺17, NTK⁺18, WS13, WDL⁺17]. **continuous** [GBL13, MSS⁺18, MFK⁺13, SGRB10]. **continuum** [BSM17, CAS⁺17, FEC⁺16, GKT⁺15, WC17, WWS11, XDK⁺17]. **contrasted** [BPW⁺19]. **Contrasting** [BHB⁺19, BAG⁺17, BHV⁺17, JMJ⁺19, LEN⁺15, LZR⁺17, RSJ⁺18, SNvD⁺10, TW11, dBWL⁺13, ASK⁺11, BBK⁺15, BBQ⁺10, CUW11, LABJ18, LALM16, MKW⁺19, OSC14, RAB⁺17, SSJR⁺10, TBHM⁺13, WZR19]. **contrasts** [XDK⁺17]. **Contrib** [Ano17g, Ano17h, Ano17i, Ano17j, Ano17k, Ano18h, Ano18i, Ano18j, Ano18k, Ano19j, Ano19k, Ano19l, Ano19m, CESC19, GBB⁺19c, KSTA18b, LF17a, SHT⁺18, ZXZ17a]. **contribute** [HBM⁺15, OCLW11, PHG13, dBWL⁺13]. **contributes** [WA14]. **Contribution** [KZB⁺10, SL10b, UVGS10, XSAHV13, ZCZ⁺18, BCF⁺17, EMS16, HLG15, QS19, SWM⁺18, Scu16, TDF⁺17, VSdG17]. **Contributions** [KOFN11, NXL⁺18, TTV⁺13, BAY⁺14, DNH⁺18, HDDH⁺17, KPW⁺11, MBTK18, MGW⁺13, OWM⁺18, RMF11, VBBR17, WCJ16, WCP⁺15, XDC⁺19]. **Control** [MAV⁺13, SPPS10, AdBVA10, BH13, BHB⁺19, BSFH10, CGB⁺18, DDF⁺10, HYK⁺15, H MV12, JZZY18, LDT⁺11, LDL⁺19, MTM⁺16, Meh10, PvDM⁺13, SM11b, THH⁺13, UA10, WCM19, XPQ⁺10]. **controlled** [BPRG⁺18, LZK18, LBR⁺13]. **controlling** [ASH⁺14, ERA⁺12, GLMG15, KBH⁺19, PSH⁺11, YHS⁺17]. **Controls** [CRCGG⁺17, HC12, WLG⁺16, BLW15, BGR14, CFF⁺17, EKS⁺18, FUS⁺16, FRA⁺17, FLP⁺10, GJWS14, GJWS16, HHHT19, HBCK10, KEH⁺14, KCB⁺17, KBM⁺14, LH17, MFMC⁺10, NAH⁺11, PKB⁺17, RCH⁺15, RNG⁺13, RETS16, SLK⁺14, SK19, SBS⁺13, SMG12, TSSH19, VCM13]. **Convection** [SCR⁺12, Aus19, SBe10, TF11, vH19]. **Convection-driven** [SCR⁺12]. **convective** [VAH11]. **cooling** [VAH11]. **Copepod** [GGL⁺15, TGG⁺11, TWWY18, AACS11, BPPF12, BD15, CWF11, CFB14, DHK11, EHT10, FNSS15, GPL11, GOD⁺18, HHW⁺19, HBBM19, JLG10, JLG11, KSY11, LRY12, NG13, PLE⁺17, RBI⁺10, SGCI14, SMA13, SM11a, SNTK15, SPR⁺15, TW10b, WB19, WD15, ZTS13]. **copepod-mediated** [PLE⁺17]. **Copepoda** [HAL17, PPT12]. **copepodamide** [GBB⁺19a]. **Copepods** [LKK13, AvSGK18, BAB⁺16, CBF11, FOT⁺15, GK15, vSGAK17, HBCK10, KGC⁺16, KJKS18, MTU18, MSAM18, NTI⁺15, PJ16, SSFF12, STCS10, SGVR16, SMC⁺10, TNI19, TIS⁺13, TAE⁺18, TSK13, VFME18, VIS⁺13, WFR10, XNK18]. **Coping** [SSP⁺18]. **copious** [CHV⁺17]. **Copper** [AMMH⁺13, WA14, Alo17, HNZ⁺16, JKKM13, LBHS13, MBC⁺18, MTW12, RLSC⁺13, STB⁺16, SMW⁺18]. **Copyright** [Ano19d, Ano19e, Ano19f, Ano19g, Ano19h, Ano19i]. **coral** [CHH⁺17, CNL⁺15, CRB⁺17, CGP⁺19, CPPdAR⁺13, CESC13, CESC14, DJD⁺14, DSM⁺18, Edm11, Edm15, ETI⁺16, FZL⁺14, FPPA⁺11, FPGR⁺13, FDH⁺14, GDD⁺16, GJR⁺19, GBR14, HBD⁺11, HRG⁺15, IPGP10, KHPIP⁺14, KCL⁺14, KTH⁺19, LABJ18, LSD18, LGC13a, LGC13b,

MKB⁺19, Man10, MBHG11, MPSA17, OBL⁺19, PCD⁺19, PJFJ⁺15, RDC⁺19, RMK⁺16, SLC18, SPTS15, SIW⁺11, SHD⁺11, WGDA19, WHD10, WTC⁺17, WFL⁺12, WLHW13, YKT⁺15, YLH⁺16]. **coralline** [CHPH13, GHSR⁺16]. **Corals** [PST⁺13, Ano21c, BJD MH10, CRS⁺17, ELJ⁺16, GFPSG13, JLRK12, Les19, LCBC16, NFRU11, PGRR⁺19, RBRH10, TIN⁺14, TFH17, TLB⁺16, TEGL11, WRWPG19, WPL⁺14]. **core** [GKS12, WRB⁺19]. **Coregulation** [XXZ⁺19]. **coring** [HMFB16]. **correlates** [RBI⁺10]. **correlating** [CJC⁺12, LGR⁺12]. **correlation** [AGMR14, BHW⁺12, BLH⁺13, HBM11, RBM14]. **correlations** [BISZ17]. **Corrigendum** [Ano21a, Ano21b, Ano21c]. **Coscinodiscus** [QFH18]. **cosmopolitan** [SGCC16]. **Costa** [ANP⁺14, GRSD⁺14]. **Could** [HLFM⁺10]. **count** [MTT17]. **Counter** [KS16, HBD⁺11]. **Counter-measures** [KS16]. **Counteracting** [ZEXH15]. **counteracts** [HBB⁺11]. **Coupled** [BCF⁺17, IH18, MHL⁺16, WCM19, XLS⁺19, FSBT16, OVRJ13, RSG11, RRB⁺16, SDS⁺11, VCPC⁺16, VPG⁺19]. **couples** [CMK⁺10]. **coupling** [BCVAn10, BSY⁺16, DMSHC16, FMGR⁺11, HC10, KVMA17, MBLD15, RKTLM18, SAS⁺11, SHT⁺17, SLA⁺18, WS18, WS13, ZCY⁺15]. **course** [WCJ⁺15]. **covariance** [KB15, PSB⁺16, YKT⁺15]. **cover** [HKS⁺15, KFJ13, LLH⁺15, NHP17, RMK⁺16, RVvdP⁺17, SKV⁺19, SAPI14, VLWV14, WCB⁺10, YJO⁺19]. **covered** [CDW⁺16, CMS17, DTKMK15, FLPL13, HGD14, JLR⁺17, MKLKP16, RKL14, SSS⁺16, SPO⁺18, SMA15, WCB⁺10]. **Cr** [WZR19]. **crab** [LDCT11, MCT⁺14]. **crabs** [KLM⁺17]. **Crassostrea** [BHW⁺12, BMC⁺16]. **craving** [MAFCD⁺18]. **created** [BSA⁺16]. **creation** [CZB⁺18]. **Creek** [CMW⁺19, AC17, DTM18, MSGS⁺13, SML⁺19]. **creeks** [ALG⁺13, DCCB17]. **Crenarchaea** [FMGR⁺11]. **Crenarchaeol** [PWS⁺11, ZKMT⁺13]. **Crepidula** [NBDM16]. **criterion** [TF11]. **Critical** [LH17, KSY11, ZF17]. **critically** [HATF17]. **Crocospaera** [BWP⁺10, GFH13, MFK⁺13]. **Cross** [LGV13, TDS⁺10, WBG⁺16, CAQS16, HCC⁺13, MH16, MAF19]. **Cross-ecosystem** [LGV13, MH16]. **cross-scale** [CAQS16]. **Cross-shelf** [WBG⁺16, HCC⁺13, MAF19]. **Cross-species** [TDS⁺10]. **crucial** [ZPK⁺12]. **Crustacea** [MXWC11]. **Crustacean** [CHV⁺17, AA18, BPL⁺19a, CCK⁺12, ITO⁺17, ŠF19, ŠSP17, WVV⁺11]. **crustaceans** [WVGB10]. **Cryptic** [PFJ10, PTS12, XBR⁺18]. **Crystal** [CF10]. **ctenophore** [CMG⁺15, JTH⁺11, JCS⁺18]. **cues** [BMPF19, BSH16, HJMD13, LWE⁺19, SBDS⁺15]. **Cultural** [AMQ⁺11, SDH⁺14, BHC13, BHC14, MLS⁺14]. **culture** [BRR⁺13]. **cultured** [BS18a, SES18]. **cultures** [BMM⁺13, BWP⁺10, DSM⁺18, ESMS13, FYT⁺12, GBL13, HLSW⁺15, MFK⁺13, SLC⁺16, WCV⁺12]. **Cumberland** [BAY⁺14, BCF⁺17]. **Current** [BTC⁺19, TSC⁺19, BLH⁺13, DIC⁺18, GK15, KGC⁺16, NSO19, WZTK15, XNK18, BPPF12, BSB⁺10, BBB⁺14, DLP13, MBC⁺18, MS13, PMPD13, SLBNG11, SSGM18, TT14, uGH⁺11]. **current-** [WZTK15]. **Currents** [Ano17l, RMDK10, HSR15, RDZ⁺13, ZXZ17b].

curtain [VHM⁺10]. **curve** [KTL17]. **CUSUM** [LGR⁺12, CJC⁺12].
CUSUM-transformed [LGR⁺12, CJC⁺12]. **Cyanate**
 [WM17, WMM18, KP13]. **Cyanobacteria**
 [dKYH⁺12, ABB⁺14, BH16, BVSM15, BWP⁺10, CJ17, FLLH18, GCSO14,
 GPH⁺13, GWSEA10, JLC⁺15, KWGN⁺10, LEK⁺18, MGL⁺16, MLK11,
 MDSG18, QHVM18, RCIB14, SWZ⁺15, ŠSP17, VTH⁺18, VSP⁺11].
Cyanobacterial [WCV⁺12, BPGE13, JHLK⁺19, KP13, MQP⁺16, OSB⁺15,
 SK19, WSTD10, ZLLM10]. **cyanobacterium**
 [FWvD⁺18, HS18, MZB⁺15, SJM11]. **cyanophages** [ŠSP17]. **cycle**
 [BMD17, CSME13, DdD⁺10, FMM⁺14, GYP⁺18, HTL⁺18, JKKM13,
 KMF10, LCH⁺14, NPT11, RR12, SFI⁺18, SBKO18, WRH⁺18]. **cycles**
 [GAH11, HPM⁺10, HLFM⁺10, MAFCD⁺18, NXL⁺18, OMSC13, PCF14,
 TIF⁺15, TKB18, VBG⁺13, WMC⁺15]. **cyclic** [BvBB⁺16]. **cycling**
 [BHB⁺19, BHV⁺17, BGM⁺13, CSME13, DBV⁺11, DKSA19, DvOR⁺16,
 EED10, FPG11, GLKK10, GRE⁺16, HGG⁺17, HCW⁺10, HCLS11, HGM10,
 KGRV18, KCL⁺14, KBL⁺10, KOFN11, LH17, LK14, MTSG18, MBH⁺15,
 MBC⁺18, MGS12, NUH⁺12, OCLW11, OVRJ13, PBA⁺15, PPPA14,
 PGP⁺14, SLBNG11, SH11, SCP⁺16, SSS⁺19, TK12, WLG⁺16, WBB⁺17,
 WZBW⁺11, XBR⁺18, ZZN⁺12, ZMWM11]. **cyclone** [LWE⁺11]. **cyclones**
 [AJC15]. **cyclonic** [FLPL13]. **cyclopid** [AACS11, SGCI14, ZTS13].
Cyclotella [RSE⁺17]. **Cylindrotheca** [BC19]. **Cymodocea** [IOB⁺11]. **cyst**
 [BRF⁺17]. **cysts** [BPL⁺19a, MAC⁺10]. **cytometer** [FPP⁺19]. **cytometry**
 [AJC15]. **Czech** [KKP⁺19].

D [CLB19, WP14]. **D.** [PMP⁺12, SZH⁺10]. **D1** [HBD⁺11]. **Dactyliosolen**
 [TJJ⁺15]. **daily** [AEH19, FPGR⁺13, SBR⁺13, TGGZS⁺10]. **dam** [FDB⁺15].
damicornis [WHD10]. **damming** [RPH⁺10]. **damped** [ILPL13, SI10].
Dampened [PLE⁺17]. **Danish** [àNTS13]. **Danube** [MD15, SDS⁺16].
Daphnia [BMPF19, HVM⁺18, HL13, HSR⁺10, HNL⁺13, IWF19, ITO⁺17,
 JSFC18, LLL10, LWE⁺19, LJ18, LGW⁺19, MNW⁺19, MCWB10, NBSMN19,
 PMP⁺12, PDP⁺10, PTS12, PWF16, PWF18, RKG⁺11, RG19, RWF⁺12,
 SBvH⁺15, SZH⁺10, ŠF19, SOM⁺15, SW11, TYX⁺19]. **Daphnia-associated**
 [HNL⁺13]. **Dark** [VHV10, SDCF16, VvO11]. **darkening** [SLK⁺10].
Darkness [OPZ13, CGL⁺16, SSC⁺10]. **data**
 [BPGE13, BM16, Bre10, BCRW15, CJHR19, FSST11, GK14, INF12,
 LLW⁺18, LC12, SMA13, SPO⁺18, VdSLC⁺16, WCM19, WSTD10].
database [Lan14]. **databases** [Lat14]. **daughters** [LOS12]. **davisae**
 [AACS11, SGCI14, VIS⁺13, ZTS13]. **Day** [BPL⁺19b, SSH⁺14, RKBA14].
daylight [AAO⁺19]. **daytime** [HH14]. **Dead**
 [EHT10, KOFN11, SSFF12, ASL16, ABS⁺19]. **death** [FAF⁺12]. **debris**
 [WLL⁺11]. **Decadal**
 [MMHT10, AAIA14a, AAIA14b, GMGM⁺13, HPS⁺10a, LH19, WTC⁺17].
decadal-scale [GMGM⁺13]. **decade** [CB19]. **decades** [MTU18]. **decipher**
 [NTM⁺10]. **Deciphering** [JHLK⁺19, SKK⁺15]. **decline**

[AAIA14a, AAIA14b, AA18, CBS⁺¹⁷, MTK⁺¹⁷, SPTS15]. **declines** [SM11b].
declining [BWS⁺¹⁴]. **Decomposition**
[CPG⁺¹⁰, CA08, HEH⁺¹⁷, SH10a, SCP⁺¹⁶]. **decoupled** [WKAM⁺¹⁹].
decoupling [DT16, ZSZ12]. **decrease**
[CCV⁺¹⁸, GTPB⁺¹¹, KRR16, LdlSB⁺¹²]. **Decreased** [SK19, SHD⁺¹¹].
decreases [CGP⁺¹⁹, GSB⁺¹⁷]. **Deep**
[BHD⁺¹⁷, KCL⁺¹⁴, SWE⁺¹⁸, SWZ⁺¹⁵, ÅCA⁺¹⁸, ÁSNCA⁺¹³, Aus19,
BNW^{+14b}, BCRW15, CPOMA15, DKG15, DvOR⁺¹⁶, FYC⁺¹⁸, GVS⁺¹⁰,
HCLS11, JMM14, JTG⁺¹¹, KYC⁺¹⁵, KCM⁺¹⁰, LCM⁺¹⁷, LBC⁺¹⁸, LBS17,
LKF⁺¹⁸, LCM⁺¹², MSSH12, MAC⁺¹⁰, MKBSK19, nVOH12, PMRRA19,
SPFP11, SOM17, SSB⁺¹⁸, SLBH⁺¹⁹, SVG⁺¹⁸, VLDM19, VMI13, WP14,
WCCP14, WSB⁺¹³, ZWL⁺¹⁴, ZXL⁺¹⁹, FCRW⁺¹⁶]. **deep-sea**
[GVS⁺¹⁰, MKBSK19, SLBH⁺¹⁹, SVG⁺¹⁸, ZXL⁺¹⁹]. **deep-water**
[JMM14, KYC⁺¹⁵, LKF⁺¹⁸, WP14]. **deepening** [SGJB14]. **deeper**
[Ano21a, GSG⁺¹⁷]. **deeply** [AdBVA10, LK14, LZK18]. **defence** [LG10].
defense [GMJW13, HCL⁺¹⁸, KS13, RKLH11]. **defenses**
[Rie15, RG19, SBFC18]. **defensive** [GBB^{+19a}]. **deficiency** [GHS14].
deficient [CRJ⁺¹⁴, ORC⁺¹⁷, WFK⁺¹⁶, WMM18]. **define** [WDMF13].
defining [ITO⁺¹⁷, JSB⁺¹⁴]. **Degradation**
[BPV⁺¹⁹, NTI⁺¹⁵, RZW11, BVSM15, CKP⁺¹⁵, CCC10, HKP⁺¹⁶, JP10,
KHCH14, MKW⁺¹⁹, MBLD15, MW15, NTM⁺¹⁰, PSNE15, WE19, YWY⁺¹⁵].
degrade [FPD⁺¹⁰]. **degraded** [PJFJ⁺¹⁵]. **degrading** [TMK⁺¹³]. **Degree**
[MFMC⁺¹⁰, RKBA14, SZH⁺¹⁰]. **degree-day** [RKBA14]. **degrees**
[LCBC16]. **Delaware** [FYVU17, Sha10]. **delayed** [BH16]. **delicatissima**
[LBHS13]. **delivery** [WGH⁺¹⁰]. **Delta** [RKWH18, LYL⁺¹⁷, TT12, TLG⁺¹¹].
Delving [Ano21a, GSG⁺¹⁷]. **demand** [HDP15, SWP11]. **demands**
[vOSH12]. **demersal** [FCD12]. **demographic** [Edm15]. **demography**
[KKB⁺¹⁸]. **demonstrate** [TLG⁺¹¹]. **demonstrating** [ZS18].
Denitrification [BSN⁺¹⁴, BKD⁺¹⁶, GCR⁺¹⁰, RDB⁺¹⁸, BGR14, DT16,
DTFR12, DSS⁺¹¹, EMO⁺¹¹, EMS16, GFT⁺¹⁴, GGL⁺¹⁵, GSPM13, GKS12,
KGC⁺¹², KJG10, MHL⁺¹⁶, MGL⁺¹⁶, MAS⁺¹⁶, NTK⁺¹⁸, RWC16].
denitrifiers [WBZ⁺¹³]. **denitrifying** [MTW12]. **Denmark** [JP10]. **dense**
[ANP⁺¹⁴]. **densities** [MG14]. **Density** [JLG10, CNL⁺¹⁵, KSY11, MTT17,
Meh10, NLM⁺¹², PHDH14, SVG⁺¹⁸, TLB⁺¹⁶]. **Density-dependent**
[JLG10]. **depend** [PSG⁺¹⁶]. **Dependence**
[LK15, ASW⁺¹⁹, BPB⁺¹⁷, BSCC15, BYD19, BISZ17, CBFK19, DOD10,
Fie13, FMGR⁺¹¹, GRGL⁺¹³, PH15, RKBA14, RM14, Tad10]. **dependency**
[KWGS18, RRAS17]. **dependent**
[CEES14, CCK⁺¹², CdC⁺¹¹, JLG10, JBPM15, KHTO13, RCIB14, RETS16,
SSPK⁺¹², TBSL17, WBZ⁺¹³, WSTG18]. **depending** [SHL⁺¹⁸]. **depleted**
[Bre14, DKSA19, FDBW16, NCT⁺¹⁵]. **depletion**
[KKB⁺¹⁸, LCCF10, PHG13, SSB⁺¹⁸, SYW18, WBG⁺¹⁶]. **Deposition**
[EMH12, AWG⁺¹², ACW⁺¹⁸, BAA⁺¹³, KK13, KHVS11, LYH17, MKG⁺¹⁵,
RQC⁺¹⁵, vdJFS⁺¹⁸]. **depression** [Les16]. **deprivation** [IGP⁺¹²]. **Depth**

[GEC⁺¹⁷, LPO⁺¹¹, NFW13, SMM11, AAO⁺¹⁹, CR11, DJS18, HONR11, Kir13, LSDW18, MMGO^{+17b}, MSK⁺¹⁷, OMSC13, PS17, SVLS⁺¹⁶, SAPI14, SLS⁺¹¹, WGJ⁺¹⁹, WCJ16, WTC⁺¹⁷, YWL⁺¹⁷, vEG10]. **Depth-integrated** [SMM11]. **depth-tiered** [OMSC13]. **depths** [GLS⁺¹³]. **derived** [BA14, BMPF19, BBTK⁺¹⁶, CPG⁺¹⁰, GAM⁺¹⁹, HNHS⁺¹⁵, LRG16, MSGS⁺¹³, OCB⁺¹⁸, QHVM18, RPMK17, SBC⁺¹⁷, TSDF⁺¹⁶, WCJ⁺¹⁷, WGC⁺¹³, ZD18]. **desalination** [SJ11]. **desaturase** [YLJ11]. **describe** [MLS⁺¹⁴, SP11]. **describing** [HS10]. **deserves** [SM11b]. **design** [GBMG12]. **desorption** [RSM13]. **destabilizes** [LS15]. **details** [vH19]. **detect** [GK15]. **Detecting** [ZD18]. **detection** [BOT⁺¹⁵, KYG⁺¹², PGB⁺¹⁹]. **Determinants** [FCC11, DDH⁺¹⁹, UIY⁺¹¹]. **determination** [GLKK10]. **determine** [BRNS18, CG17, CLWD13, HVM⁺¹⁸, RASV⁺¹⁷]. **determined** [AWG⁺¹², CR11, KB15, Kus14, SW11]. **determines** [AvSGK18, DPLG⁺¹⁹, GBD⁺¹⁰, SPHVA19]. **determining** [LFGK10, WJHS18]. **detoxification** [HHW⁺¹⁹]. **detrital** [WLS⁺¹¹]. **detritivorous** [SWP11]. **detritus** [BPV⁺¹⁹, DRE⁺¹⁰, FGBS⁺¹⁸, KBL⁺¹⁰, OCR10, RPMK17, SGRB10, ZLLM10, dBWL⁺¹³, vOSH12]. **detritus-based** [DRE⁺¹⁰, SGRB10]. **Developing** [WJHS18]. **Development** [SBNC⁺¹⁹, SSPK⁺¹², DL11, JMNG⁺¹³, JMN15, KBE⁺¹⁷, MMJ⁺¹², RKMN⁺¹³, SKGT17, TIF⁺¹⁵, WXF⁺¹⁵]. **developmental** [AAC11, RG19]. **diagnosed** [FWWF18]. **dialogue** [KM10]. **diapause** [CBP12, HTL⁺¹⁸, STCS10, ŠF19, TNI19]. **diapausing** [All10b, BPL^{+19a}, PT11]. **Diaphanosoma** [PZHD18]. **diapycnal** [ASL16]. **Diatom** [FPSL18, MD10, WCJ⁺¹⁷, WHH⁺¹¹, AJ15, BFW⁺¹³, BC19, BTJ⁺¹², BMM⁺¹³, BHV⁺¹⁷, BBTK⁺¹⁶, CR16, CEB⁺¹⁷, DdD⁺¹⁰, DMB⁺¹², DBC⁺¹³, HV19, HHW⁺¹⁹, HBB⁺¹¹, KBL⁺¹⁰, KBVW12, LBHS13, MDB19, MTSG18, MBTK18, MEM⁺¹⁷, NTM⁺¹⁰, PRS⁺¹⁸, QFH18, RASD10, RLSC⁺¹³, Sch19, SLH⁺¹⁵, SLG⁺¹⁴, SHF⁺¹¹, SH11, TBLG14, VvO11, WHR18, YKBJL12, ZD18]. **diatom-aggregates** [MTSG18]. **Diatom-produced** [FPSL18]. **Diatoms** [LOS12, CSJ⁺¹⁴, CMS⁺¹⁸, MRBR10, MEM⁺¹⁷, MPvBS⁺¹⁸, NTA14, PHB⁺¹⁰, RASD10, SHKU11, SS17, SYW18, TJJ⁺¹⁵, TNK⁺¹⁴, WCI⁺¹⁴]. **Diazotroph** [BBTK⁺¹⁶, SFI⁺¹⁸, GFH13]. **diazotrophic** [ABB⁺¹⁴, MDSG18, SWZ⁺¹⁵]. **diazotrophs** [BAA⁺¹³, CLJ⁺¹⁹, MBBG⁺¹², SKK⁺¹³]. **DIC** [MZH15]. **die-off** [SKGT17]. **dieback** [KKP⁺¹⁹]. **Diel** [DHG⁺¹⁷, EHW⁺¹⁵, FOT⁺¹⁵, GAH11, OMSC13, OR16, RGLM⁺¹², SC10, WMC⁺¹⁵, ZXN⁺¹², BA14, BM16, CSME13, GLF17, HSR⁺¹⁰, HC10, HPS^{+10a}, HH14, MWSB18, PGB⁺¹⁹, RRCH⁺¹⁹, RK13, SNM11, SWD11, WFB⁺¹¹, vBBM⁺¹⁹]. **Diet** [BLJ13, BCF⁺¹⁷, HSTK15, KNA⁺¹⁴, MTEM15]. **Diet-tissue** [BLJ13]. **dietary** [LJ18, SMC⁺¹⁰]. **diets** [DPLG⁺¹⁹, LRS⁺¹⁰, RMF11]. **differ** [SHF⁺¹²]. **difference** [CL17]. **Differences** [DRP⁺¹⁷, EMO⁺¹¹, GKT⁺¹⁵, LSHK11, RRCH⁺¹⁹, SWP11, GLS⁺¹³, LLL10, LGV13, MHA⁺¹⁸, PBA⁺¹⁵, PRS⁺¹⁸, SYdTP⁺¹¹, SI10, TW10a, WC17, WHR18]. **different**

[ALdML⁺¹⁴, ASSG12, BBS⁺¹⁸, FWFB10, FEC⁺¹⁶, GMD11, GN16, HRPW15, LFB⁺¹⁰, LG10, MF19, MG14, MU17, MCT⁺¹⁴, MZB⁺¹⁵, RF13, SPFP11, SNG⁺¹⁴, TPM⁺¹⁴, XDC⁺¹⁹]. **Differential** [BWD⁺¹¹, BWD⁺¹², HRPW15, SMR⁺¹⁷, SSGL19, TNK⁺¹⁴, VAH11, WFK⁺¹⁶, BJB18, ML19, MP17]. **differentially** [DRE⁺¹⁰]. **differentiation** [TB18, WOC⁺¹⁸]. **differently** [LBHS13]. **differing** [HSTK15, ZZY⁺¹⁰]. **differs** [HS11]. **diffuse** [PMY^{+19b}]. **diffusion** [ASL16, DBSP⁺¹⁶, JJ17, Kus14, MCGF⁺¹¹, SSW19]. **Diffusive** [BMF⁺¹⁶, CKB⁺¹⁶, SBe10, TBK15]. **digitata** [HONR11]. **Dilution** [CPF16, CLLH14, Lan14, Lat14, LFL17, SMMF19, SNM⁺¹⁵]. **dim** [SLS⁺¹¹]. **dimensional** [HSLH⁺¹⁴, HE10, LWE⁺¹⁹, MMFBB18, OBI12]. **Dimethyl** [ARW⁺¹⁰, ZYZ19]. **Dimethylated** [GRPB⁺¹⁷, DJD⁺¹⁴, JZZY18]. **dimethylsulfide** [GRGL⁺¹³]. **dimethylsulfoniopropionate** [ASA⁺¹⁸, FAF⁺¹², RLL⁺¹⁰]. **dimethylsulfoxide** [TKK⁺¹⁷]. **dinitrogen** [CJW⁺¹⁹, DHW11, GKS12, MFK⁺¹³, MBBG⁺¹²]. **dinoflagellate** [BFW⁺¹³, BVSR⁺¹⁵, BRF⁺¹⁷, HST⁺¹⁴, HLG15, HLSW⁺¹⁵, JLG10, JLG11, LKLH10, NAH⁺¹¹, SBDS⁺¹⁵, VdRA⁺¹⁹]. **dinoflagellates** [Les19, MAFCD⁺¹⁸, PK14, SFWP12, XNK18]. **Dinophyceae** [BWD⁺¹¹, BWD⁺¹², BVSR⁺¹⁵, KMF10]. **Dinophysis** [HLG15]. **dioica** [LTPK⁺¹⁸, LBR⁺¹³, LSK11]. **dioxide** [BHW⁺¹², CF13a, CCW⁺¹⁹, GFH13, GWB⁺¹⁴, Joh10, KHTO13, SLH⁺¹⁵, SMG12, UIY⁺¹¹, VFS⁺¹⁵]. **Diptera** [REDW10]. **Direct** [BPB⁺¹⁷, GLKK10, HC10, HCK11, NL14, SBA⁺¹¹, JTH⁺¹¹]. **discarded** [NTI⁺¹⁵]. **Discharge** [DPG⁺¹², BBLN11, DB11, GBD⁺¹⁰, KDGL19, KKH11, KSG⁺¹⁰, LKS⁺¹⁶, LSH⁺¹⁷, LCH⁺¹⁴, LSD18, MT11, OBL⁺¹⁹, PVLMT⁺¹⁶, RDP⁺¹⁷, RGM15, WGH⁺¹⁰]. **discharges** [PLS⁺¹⁶, VLMTEW11]. **discontinuous** [KMC⁺¹⁵]. **discrepancy** [BMW10]. **discrimination** [KLM⁺¹⁷, MTEM15, MZH15]. **discriminatory** [AC15]. **disease** [JSFC18, PHCD14, SLG10]. **Disentangling** [SLHA19, SKKV11, VABMS⁺¹², ZKMT⁺¹³]. **disequilibria** [SBNC⁺¹⁹]. **Disko** [FGMN17, HNSM12]. **dislodgement** [dBWL⁺¹³]. **Dispersal** [RLPL14, GBMG12, KTK⁺¹³, LDCT11, MVT⁺¹⁷, MCT⁺¹⁴, NG13, OIS10, PHJ12, PBV16, RNG⁺¹³, RCJ15, RMLVK12, RPL16, WJHS18, uGH⁺¹¹, vHOM⁺¹⁹]. **Dispersion** [SGA10, CTH15, HSR15, MCC⁺¹⁰, OrIA10, PHJ12, PH15]. **displacement** [GPH⁺¹³]. **Disrupted** [LH17]. **dissects** [LGW⁺¹⁹]. **Dissimilatory** [DSS⁺¹¹, RRB⁺¹⁶, LTH⁺¹², MAS⁺¹⁶, RvSM17, RDB⁺¹⁸, TG17]. **Dissipation** [SLPM15, NBG17, SWL11]. **Dissolution** [WLR17, KWM⁺¹⁹, KNL10, SEYJ11]. **Dissolved** [AHJS15, BAG⁺¹⁴, BHD⁺¹⁷, CFD15, GJWS14, GJWS16, HTLM18, HBM11, LGC16, NO17, OALD10, OWFS11, OVRJ13, SMG12, AFG⁺¹⁶, ÁSNCA⁺¹³, BSCG17, BBLN11, BVSM15, BDU⁺¹⁹, BBB⁺¹⁴, BLWV10, CRCGG⁺¹⁷, CSÁS⁺¹⁰, CÁSO⁺¹⁶, CKP⁺¹⁵, CPG⁺¹⁰, CDA16, CHV⁺¹⁷, CK12, CK13, CF10, DFWPK16, DVC⁺¹⁷, DBA16, Dem19, DPG⁺¹², EO13, EKS⁺¹⁸,

FYC⁺¹⁸, FUS⁺¹⁶, FHS10, FPG11, FB12, FEC⁺¹⁶, GdG11, HKP⁺¹⁶,
 HEB⁺¹⁹, HSTK15, HMH⁺¹⁶, HGT⁺¹⁸, HSC⁺¹¹, IH18, JTH⁺¹³, JSK⁺¹⁵,
 KWRS13, KBT16, KHK⁺¹⁹, LCW17a, LF19, LG16, LZC⁺¹⁴, LTX⁺¹⁷,
 LBR⁺¹², MWBM19, MSGS⁺¹³, MGHS18, MPONC⁺¹⁷, MA18, MBAS⁺¹⁷,
 MdBKL13, MCC⁺¹⁰, MSD⁺¹⁴, MGSM10, MGJH18, PRS⁺¹⁸, PCO⁺¹⁵,
 PML⁺¹⁹, RR13, RM14, RCH⁺¹⁵, RvSM17, RCSÁS⁺¹⁰, RHDTS⁺¹¹,
 SLC⁺¹⁶, SHSK14, SCF⁺¹⁵, SCR⁺¹², SRCL⁺¹³, SLP⁺¹⁴, SLA⁺¹⁵, SFB12,
 SHK13, SFLB16, SBC⁺¹⁷, SSC⁺¹⁰, SYW18, TLG⁺¹¹]. **dissolved**
 [THH⁺¹³, TAV⁺¹⁰, TTV⁺¹³, TKK⁺¹⁷, TZD⁺¹⁵, UVGS10, WM12,
 WDX⁺¹¹, WLK⁺¹⁶, WMC⁺¹⁵, WCJ⁺¹⁵, WSM⁺¹⁹, WYW⁺¹⁰, WDL⁺¹⁷,
 WSTG18, WSB⁺¹³, XSAHV13, YHS⁺¹⁷, YJO⁺¹⁹, YMB⁺¹⁸, ZZY⁺¹⁰,
 ZHN⁺¹⁰, ZZAC13, ZCK⁺¹⁶, dCGS19, vEG10]. **Distance**
 [FYVU17, BMB⁺¹⁸]. **Distance-based** [FYVU17]. **Distinct**
 [BBB⁺¹⁴, HRMD19, OCLW11, ANP⁺¹⁴, CR16, CLFW17, EMS16, FYVU17,
 GRSD⁺¹⁴, RDB⁺¹⁶, SGS18, TLG⁺¹¹]. **Distinctions** [LRS⁺¹⁰].
Distinguishing [BRS11, LBR⁺¹²]. **Distribution**
 [BAG⁺¹⁴, KP13, LCM⁺¹⁷, MMH⁺¹⁸, WBS⁺¹⁰, ZTW⁺¹¹, ASH⁺¹⁴,
 BHS⁺¹⁶, BHB⁺¹², BSRP⁺¹², BSSW11, CR11, CUW11, DML17, DB11,
 DDH⁺¹⁹, DTKMK15, DKK⁺¹⁴, EHW⁺¹⁵, FDS⁺¹⁸, GPCJ16, GBD⁺¹⁰,
 HCD19, HPM⁺¹⁰, HONR11, IPGP10, JZZY18, KHP18, LMR14, MRSS12,
 MSAM18, NFW13, NO17, PZHD18, RS16, RPMK17, RSN16, RWF⁺¹²,
 SPP10, SPFP11, SP11, SLA⁺¹⁸, SS17, Tho19, UMHH⁺¹⁴, VPMr12,
 WMC⁺¹⁸, WM17, WMM18, YHS⁺¹⁷, vdHHC⁺¹⁹]. **distributions**
 [AAO⁺¹⁹, BTC⁺¹⁹, BLLB12, CG17, KYRMD18, KT13, LCW17a, LRS⁺¹⁰,
 RWM⁺¹⁴, SSG⁺¹⁷, SYdTP⁺¹¹, SHK13, SH10b, WFK⁺¹⁶, ZYZ19]. **districts**
 [AJG13]. **Disturbance**
 [KHH19, PH13, AP12, CZB⁺¹⁸, KJKS18, SVG⁺¹⁸, WVV⁺¹¹].
disturbances [PRL18]. **disturbed** [KYG⁺¹²]. **disulfide** [ZYZ19]. **Diurnal**
 [QHVM18, SMN⁺¹⁵, FWWF18, LCW17a, SSU⁺¹⁶, VBGG⁺¹³]. **dive**
 [WHAM15]. **divergence** [MNW⁺¹⁹]. **Divergent** [RG19, LH19]. **Diverse**
 [KTRK11, HLGA17, LF16, LF17b, MH16]. **diversification** [MXWC11].
Diversity
 [DTKMK15, GWB⁺¹⁴, GBC⁺¹⁷, MVT⁺¹⁷, RDB⁺¹⁶, WCV⁺¹², BDS11,
 BL13, CVS⁺¹⁰, FMP⁺¹³, GYP⁺¹⁸, HT17b, JHLK⁺¹⁹, JB19, LZR⁺¹⁷,
 MNW⁺¹⁹, MVL⁺¹⁰, OPA⁺¹⁴, PTS12, RBI⁺¹⁰, SJ11, SS12a, SS17, TBLG14,
 VMAS⁺¹⁶, VB17, WKAM⁺¹⁹, WHR18, XZC⁺¹⁶, ZCL⁺¹⁹, ZXL⁺¹⁹]. **DMS**
 [ADS⁺¹⁷, GRPB⁺¹⁷]. **DMSO** [ADS⁺¹⁷, BRS⁺¹³]. **DMSP**
 [ADS⁺¹⁷, BRS⁺¹³, FAF⁺¹², ML19, RLL⁺¹⁰]. **DNA** [HNL⁺¹³]. **DNRA**
 [BKD⁺¹⁶, KWM⁺¹⁹, KJG10, MAS⁺¹⁶]. **Do**
 [CEPPR14, GPCJ16, SBFC18, BB10, CESC13, PMP⁺¹⁷, WRH⁺¹⁷]. **DOC**
 [DVC⁺¹⁷]. **documentation** [WKJS⁺¹⁴]. **Does**
 [CLHL12, HBBM19, HBCK10, PD11, SP11, SS19]. **doi** [Ano21a]. **doliolid**
 [TIS⁺¹³, TIF⁺¹⁵]. **doliolids** [TIS⁺¹³]. **DOM** [AGCA16, HKP⁺¹⁶, YJO⁺¹⁹].
domain [SLHA19]. **dome** [ANP⁺¹⁴, GRSD⁺¹⁴]. **Dominance**

[ABB⁺14, HCK10, GNWDL19, MM11, RRD14, SLK⁺10, VSP⁺11].
dominant [CTA⁺19, GHSR⁺16, MMB17, XFH14, vdHHC⁺19]. **dominate**
 [Clo18]. **dominated** [ARML10, GLF17, GLF18, JMJ⁺19, KSG⁺10,
 PMY⁺19b, PHPH⁺16, PLE⁺17, RMH⁺17, WDCH18]. **dominates** [DSS⁺11].
dominating [MPAS17]. **domoic** [HHW⁺19, SHF⁺11]. **dormant**
 [BBM11, WVV⁺11]. **dose** [RM14]. **Double** [SBe10, ASL16, SSW19].
Double-diffusive [SBe10]. **down** [Meh10, PDER10]. **downstream**
 [AP12, DPSW16, LS15, RHMSE15, SSN12, WC17]. **drag** [RN14]. **drainage**
 [MAD⁺15]. **drawdown** [MD15]. **Dreissena** [KKS10]. **Dreissenid**
 [KKS10, KKB⁺18]. **drift** [BSRP⁺12, FDP⁺18]. **drinking** [DFWPK16].
drive
 [ASR⁺17, BNW⁺14a, BvBB⁺16, JLR⁺17, Ker17, MBH⁺15, SCAB⁺16, TT12].
driven [Aus19, BH13, BSSR10, CFVU11, DML17, FEW⁺14, GJR⁺19,
 GBB19b, GBR14, HCD19, HSR15, HCC⁺13, HMFF10, KRR16, LS15,
 MAF19, MXWC11, PS13, PDER10, RBCS16, RRCH⁺19, SMLC⁺18,
 SCR⁺12, SMA13, TBAS14, VSD10, WКСR13, WCJ⁺15, WZTK15, WMI⁺17].
driver [KBVW12]. **Drivers** [CÁSO⁺16, SBR⁺13, SSJR⁺10, AMNU16,
 BWS⁺14, CLJ⁺19, DPM18, FZL⁺14, FSCB11, GAK⁺19, HGdG⁺19, HT17b,
 HATF17, KH16, LBC⁺18, LHSBP18, LSHK11, LCBC16, PGP⁺14, PHCD14,
 RPB17, SBM16, VP15a, ZNVF16, vBBM⁺19]. **drives**
 [APF⁺18, BSY⁺16, KHTO13, KVA18, LH19, RDP⁺17, SWE⁺18, VAH11].
Driving [SCQ⁺17, ADS⁺17, SGG⁺11]. **drought**
 [BGM⁺13, BHM⁺17, HEB⁺19, HAA⁺19, PMP⁺17, SCAB⁺16, YH17].
droughts [WHL⁺11]. **Dry** [DTKMK15, DKK⁺14, dCGS19]. **Dryas**
 [Ano17l, ZXZ17b]. **drying** [RKWH18]. **dual** [GRE⁺16]. **due** [AFG⁺16,
 HBB⁺11, NI10, OIS10, PHJ12, RKWH18, SKV⁺19, SNM⁺15, WLW18].
Dunaliella [GBL13, YLJ11]. **Durability** [TCFP19]. **during**
 [Ano10, Ano17l, Ano21c, BBLN11, BPRG⁺18, BMD17, BMDC10, BBCM⁺13,
 BHM⁺17, BC10, CMB10, CFD⁺11, CR16, CCC10, CWHP14, DT16, DVC⁺17,
 DKG15, FDB⁺15, GMBL16, GBD⁺10, HNSM12, HBD⁺11, HAA⁺19, HCC⁺13,
 HZC⁺13, IHSS⁺19, JZZY18, JWS15, JSK⁺15, KYRMD18, KG18, KHPIP⁺14,
 LWWE⁺18, MC16, MFM⁺12, NXL⁺18, NTM⁺10, OCLW11, OBT⁺11,
 OBI12, PMP⁺17, PCM⁺16, PCY⁺10, RMNZ12, RHMSE15, SFFF12, SLG⁺14,
 SLPM15, SFLQ⁺19, VMCM⁺17, WRWPG19, XDC⁺19, ZCY⁺15, ZXZ17b].
dust [BAA⁺13, BBK⁺15, CCV⁺18, MFMC⁺10, vdJFS⁺18]. **Dutch**
 [LRM17]. **dwelling** [RPB17, SHD⁺11]. **Dynamic**
 [LG16, MBH⁺15, BRR⁺13, BLM⁺10, HRMD19, MCH12, SWZ⁺15, SBF18].
dynamically [RMDK10, RDZ⁺13]. **Dynamics**
 [BDP⁺19, HBD⁺16, MMGO⁺17a, RGG⁺10, TGC⁺10, WGC⁺13, WDL⁺17,
 ALdML⁺14, APP12, ABS⁺19, BH13, BBLN11, BRNS18, BFD⁺11, BCRC16,
 BHV⁺17, BvBB⁺16, BBB⁺17, BCRW15, BHM⁺17, CHHT18, CRB⁺17,
 CRCGG⁺17, CFVU11, CHL10, CMK⁺10, CdC⁺11, CAS⁺17, CWRX19,
 CSC⁺11, DHH15, DPSW16, DMMV15, DBRB⁺15, DBH⁺16, DVSV13,
 FHS10, GFT⁺14, GLI⁺15, GRT⁺14, GBT⁺17, GBB19b, GCH⁺12, HDK⁺12,

HPCD13, HAC⁺¹¹, HC10, HPM⁺¹⁰, HHS⁺¹⁸, HNL⁺¹³, HSBA10, IH18, JAD⁺¹³, JHD⁺¹¹, JLR⁺¹⁷, KHPIP⁺¹⁴, KSWFG13, KNA⁺¹⁴, KCB⁺¹⁷, LVDM19, LCM⁺¹², LBB18, LBR⁺¹², MCH12, Man10, MGHS18, MMXC15, MWR17, MMWR17, MMD15, MBO⁺¹⁶, MGT15, OBL⁺¹⁹, OBI12, PCF14, PSZ⁺¹³, Piw19, PCY⁺¹⁰, PMRRA19, QS19, QWRJ10, RKBA14, RPI⁺¹², RQC⁺¹⁵, RSG11, RRGCA19, RPG13, RLL⁺¹⁰, RKMN⁺¹³, SFS⁺¹⁶, SCAB⁺¹⁶, SNvD⁺¹⁰, SFMF15, SSGB⁺¹⁷, SKJD⁺¹⁴, Sha10, SDS⁺¹⁶].

dynamics

[TCG⁺¹⁷, THH⁺¹³, TBAS14, TMO⁺¹⁸, TZD⁺¹⁵, VSdG17, VvO11, WDCH18, WRO⁺¹¹, WFK⁺¹⁶, WFR10, WLHW13, ZWA⁺¹⁴, dCGS19, vdJFS⁺¹⁸].

Dysida [SWM⁺¹⁰]. **dystrophic** [WMC⁺¹⁵].

Early [JMNG⁺¹³, JMN15, MLL⁺¹⁴, MMD15, AACS11, BJ15, BMDC10, HZC⁺¹³, LAM12, MTU18, PCJK13, SLA⁺¹⁸, WXF⁺¹⁵]. **Earthquake**

[KJKS18]. **East** [CMK⁺¹⁰, GNHGM13, MRSE14, MRC⁺¹⁶, NTK⁺¹⁸, RDB⁺¹⁶, CFD15, GLI⁺¹⁵, JZZY18, JCF⁺¹⁰, KK13, MKG⁺¹⁵, MS13,

PHB⁺¹⁰, RDB⁺¹⁸, SW14, ZYZ19]. **eastern** [BSCG17, BPA12, BPW⁺¹⁹, CRJ⁺¹⁴, CJW⁺¹⁹, DTFR12, DvOR⁺¹⁶, HOD⁺¹⁷, HSP⁺¹⁶, JK13,

KBL⁺¹⁰, Man10, MPM⁺¹⁵, RBG⁺¹⁰, SSS⁺¹⁹, Tho19, VGM14, WBG⁺¹⁶, WHAM15, ZHN⁺¹⁰, DLSLL19, JWGH19, SPB⁺¹⁴, WMM18]. **eating**

[KLM⁺¹⁷, MWSB18]. **Ebullition** [CHW14, DBSP⁺¹⁶, SOM17].

Ebullition-enhanced [CHW14]. **echo** [RK13]. **Eco** [SYdTP⁺¹¹].

Eco-evolutionary [SYdTP⁺¹¹]. **ecogeochemistry** [MHT13]. **Ecological**

[BBK⁺¹⁵, BVP⁺¹⁵, ELJ⁺¹⁶, HT17b, HESU13, MAB⁺¹⁷, MKBSK19, RG19, XDK⁺¹⁷, ALdML⁺¹⁴, APS⁺¹⁹, ABD⁺¹⁷, CJC⁺¹², DLSLL19, HMO⁺¹⁸,

KPP⁺¹⁸, LGR⁺¹², PHCD14, PJUR15, PJFJ⁺¹⁵, SMA13]. **ecologically**

[PSD⁺¹⁷]. **Ecology** [SLBH⁺¹⁹, BRS18, KWF⁺¹⁷, KTL17, MH16, RRCH⁺¹⁹, RGM⁺¹¹, WLO⁺¹⁹, ZTW⁺¹¹]. **Ecophysiological** [CG17, CPOMA15].

Ecophysiology [PGRR⁺¹⁹, PBA⁺¹⁵, PSD⁺¹⁷, PWF16]. **ecoregion**

[RQC⁺¹⁵]. **ecosphere** [WGDA19]. **Ecosystem**

[AP12, CJS⁺¹⁷, DLP13, DTM18, RBM14, SBR⁺¹³, SCBR12, SLBNG11,

SSGM18, SGRB10, ARML10, AMQ⁺¹¹, BRR⁺¹³, BAY⁺¹⁴, BGM⁺¹³,

BLS⁺¹⁶, CHL⁺¹⁷, CPHD15, CFVU11, FDH⁺¹⁴, GFT⁺¹⁴, GLMG15,

GNHGM13, HEB⁺¹⁹, HBR13, HSBA10, HH14, HBM11, KGL⁺¹⁶, KRB⁺¹⁸,

LGV13, LALGM18, MH16, MMB17, OHKC⁺¹², OPA⁺¹⁴, PHDH14, QWRJ10,

RHDTs⁺¹¹, SMM11, SHSK14, SFS⁺¹⁶, SWCL12, SLC18, SSP⁺¹⁸, SNG⁺¹⁴,

VBC⁺¹², VCPC⁺¹⁶, VMCM⁺¹⁷, VZJ⁺¹⁷, WRB⁺¹⁹, WGRS⁺¹⁷, WTN⁺¹⁵].

ecosystem-level [VCPC⁺¹⁶]. **ecosystems**

[BBT⁺¹⁰, BDU⁺¹⁹, CJWS15, FHS10, GMGM⁺¹³, GdG11, KCL⁺¹⁴,

LRM⁺¹⁹, MGGS18, MJJMM17, MBBW11, NNE12, PGP⁺¹⁴, SMF10,

SGS18, TCFP19, TBF⁺¹³, WYW⁺¹⁰, SM11b]. **ecotype** [SSG⁺¹⁷].

ecotypes [CLFW17]. **eddies**

[BSB⁺¹⁰, CHS⁺¹⁸, KZR⁺¹⁹, Lee18, TNMV⁺¹⁰, WRB⁺¹⁹]. **Eddy**

[BLH⁺¹³, AGMR14, BLLB12, HBM11, KB15, KNL10, LBS17, MCGF⁺¹¹,

MS13, PSB⁺¹⁶, RBM14, WBG⁺¹⁶, XDC⁺¹⁹, YKT⁺¹⁵]. **edges** [AFG⁺¹⁶].
edifice [CSC⁺¹¹]. **Editorial** [How15a, How15b, How19, Xen19]. **eDNA**
[RASV⁺¹⁷]. **edulis** [Les16]. **Edward** [VML⁺¹⁹]. **eel** [RLPL14, RPL16].
Eelgrass [MZH15, DDF⁺¹⁰, HHHT19, HBM11, PHLSSS19, RBM14, ZHG15,
vdHHC⁺¹⁹]. **Effect**
[BSB⁺¹⁰, CHL10, HSC⁺¹¹, KSWFG13, LCH⁺¹⁴, MTSG18, MMGO^{+17b},
MBE⁺¹³, MHPW18, RQC⁺¹⁵, RAB⁺¹⁷, WP14, WVGB10, BC19, BSSR10,
BOT⁺¹⁵, BMB⁺¹⁸, CKP⁺¹⁵, CRJ⁺¹⁴, CLHL12, CBP10, CMG⁺¹⁵, CJ17,
DKK⁺¹⁴, DvOR⁺¹⁶, GPA⁺¹⁴, HA16, HXS⁺¹⁰, KLEH16, KMP⁺¹¹, KJG10,
KSY11, MHRH11, MT11, MD15, MMJ⁺¹², RLB⁺¹⁰, TIF⁺¹⁵, Tho19,
VFME18, XSAM12, XLS⁺¹⁹, ZHN⁺¹⁰, ZBSR15, vdJFS⁺¹⁸]. **effective**
[FLM⁺¹⁹, SHM⁺¹⁹, WGH⁺¹⁰]. **Effects**
[BMBI12, BMPF19, BSBK13, BSSW11, CZB⁺¹⁸, CSD10, DMN15, DJD⁺¹⁴,
FBV11, FDS⁺¹⁴, GC16, GSBR11, HSLH⁺¹⁴, HKP⁺¹⁶, HCC⁺¹³, JBB⁺¹⁶,
JCS⁺¹⁸, KT13, KGT12, KFJ13, KHG⁺¹³, KKP⁺¹⁹, KNA⁺¹⁴, LBB18,
LSD18, MGL⁺¹⁶, MKK15, MEM⁺¹⁷, MW15, NBSMN19, PSG⁺¹⁶, PWF16,
QWRJ10, RR12, RN14, REDW10, SLE10, SJB⁺¹⁹, SD10, SHF⁺¹¹, THFG16,
VMF⁺¹¹, VB17, YMB⁺¹⁸, ZTS13, ZMS⁺¹⁸, vEG10, AJ15, BRS11, BHW⁺¹²,
BH16, BRT⁺¹⁰, BWD⁺¹¹, BWD⁺¹², BBQ⁺¹⁰, BCM⁺¹⁷, CFAE⁺¹⁵, CL10,
CCK⁺¹², CHPH13, CRS⁺¹⁷, DLP13, DHH15, DBFL11, Edm11, FVSL19,
FBL15, GRGL⁺¹³, GK10, HMV⁺¹⁸, HST⁺¹⁴, HLSW⁺¹⁵, HCS11, JHLK⁺¹⁹,
JLRK12, KCM⁺¹⁰, KTK⁺¹³, KBL⁺¹⁰, LAM12, LJ18, MVL⁺¹⁰, MLGZ16,
MDS⁺¹⁰, MGSM10, OR16, PvEF12, PE17, PSNE15, PSD⁺¹⁷, PWF18,
RKWH18, RSTS⁺¹⁸, SWCL12, SNK12, SLH⁺¹⁵, SMR⁺¹⁷]. **effects**
[SLG⁺¹⁴, SBA⁺¹¹, SSM⁺¹⁹, SH11, Tad10, TJJ⁺¹⁵, TG17, TRA19,
VABMS⁺¹², WCS⁺¹⁸, WGH⁺¹⁶, WVV⁺¹¹, WB19, WGM16, WHL⁺¹¹,
WRH⁺¹⁷, YWY⁺¹⁵, ZEXH15, ZHG15]. **Efficiency**
[ACC⁺¹⁷, CGP⁺¹⁹, HNZ⁺¹⁶, KBVW12, LWWC⁺¹⁶, MA18, MJH⁺¹⁶,
MGS12, RRAS17, RM14, TW10b, dGCB⁺¹¹]. **Efficient** [JYS18]. **efficiently**
[LTPK⁺¹⁸]. **effluent** [KCB⁺¹⁷]. **efflux** [HNHS⁺¹⁵, HEH⁺¹⁷, OLC18].
effluxes [KHTO13]. **egg** [DHK11, FGMN17, SM11a, ZTS13]. **eggs**
[All10b, BSBK13, BBM11, JTH⁺¹¹, KKHP14, KMH⁺¹⁷, RCV⁺¹⁴, SVS⁺¹⁹].
eicosapentaenoic [BB10, SW11]. **EIFEX** [CFD⁺¹¹]. **Eiffel** [CSC⁺¹¹].
eight [CESC13]. **Elat** [WSB⁺¹³]. **electron**
[BMB⁺¹⁸, HVD⁺¹⁸, RKTLM18, SHT⁺¹⁷]. **element** [CJ17, SH10b].
Elemental [WM12, FWWF18, HBBM19, Kus14, LLB17, LF19, MTM⁺¹⁶,
MEM⁺¹⁷, SD10, SYW18, WJHS18]. **elementary** [HESU13]. **elements**
[GMMV19, MMH⁺¹⁸, SH10b, TNK⁺¹⁴]. **Elevated** [DM17, HCL⁺¹⁸,
ORC⁺¹⁷, BHW⁺¹², BPL^{+19b}, HLSW⁺¹⁵, HBB⁺¹¹, HRPW15, QFH18].
Elevating [CMG⁺¹⁵]. **Elevation**
[CEES14, CJHR19, LZR⁺¹⁷, SMM11, SNM11]. **Elevation-dependent**
[CEES14]. **Elodea** [ZLLM10]. **elucidated** [WGCC14]. **elucidating**
[BSCC15]. **Elwha** [FDB⁺¹⁵]. **embayed** [GWN⁺¹²]. **embayment** [CKB⁺¹⁶].
embayments [WMI⁺¹⁷]. **embryos** [ZS18]. **Emerald** [SMM11]. **emerged**

[SYW18]. **emergence** [MBBW11]. **emersion** [BMD17]. **Emiliana** [ARW⁺10, BRS11, BSCC15, FRA⁺17, Fie13, FCC11, FAF⁺12, KS13, LCCF10, MMWR17, MLGZ16, RR12, SES18, SBFC18, WA14, WRH⁺18, ZKL⁺14]. **emission** [CCW⁺19, NSG⁺16, SPPS10, TMH⁺18]. **emissions** [BMN16, CWHP14, HW16, JBB⁺16, JMJ⁺19, KBJ⁺18, LVM⁺10, LDL⁺19, MLD⁺16, OMB⁺16, TSDF⁺16, VSdG17, XXZ⁺19, vBBM⁺19]. **Emphasis** [CGT16, GWD⁺16]. **empirical** [Meh10, SBT⁺19, SL10a, VTH⁺18]. **enclosed** [GEC⁺17]. **enclosure** [CCK⁺12]. **Endemicity** [WOC⁺18]. **endobionts** [NCT⁺14]. **endogenous** [HTL⁺18]. **endosymbionts** [TIN⁺14]. **endosymbiotic** [Les19, SHKU11]. **Enduring** [MBHG11]. **energetic** [BAB⁺16, RNG⁺13]. **energies** [WLO⁺19]. **energy** [Aus13, BSY⁺16, CT18a, CG17, Kir13, LV16, PHDH14, SLH⁺15, WC17, WWS11, YWL⁺17]. **engineering** [TT12]. **engineers** [SSP⁺18]. **England** [BGR14, TWP13]. **enhance** [CLHL12, RWB⁺19, SGH12]. **Enhanced** [Sch19, CHW14, GTPB⁺11, MBHG11, MBH⁺15, SEYJ11, AdGAD14]. **Enhancement** [BAA⁺13, HAA⁺19, GWB⁺14]. **enhances** [DIC⁺18, HCL⁺18, MJH⁺16, MM11, NNE12, OPA⁺14, PHLSSS19, WCI⁺14]. **enriched** [GWD⁺16, UCOG16]. **Enriching** [GMMV19]. **enrichment** [ATP⁺15, BBT⁺10, BHD⁺17, CF13b, DRE⁺10, KWRS13, KBJ⁺18, NB17, OWS⁺17, OCR10, PHG13, SGRB10, SSGL19, VABMS⁺12, WGM16, ZCL⁺19]. **enrichments** [LBR⁺12]. **ENSO** [XDC⁺19]. **entered** [FCRW⁺16]. **enters** [MPK⁺13]. **Entrainment** [MS13, KFJ13, MFL11]. **entrance** [MMC⁺10]. **entry** [RBG⁺10]. **environment** [AMMH⁺13, BLG⁺15, CBP12, DM17, DBMP⁺11, DMB⁺12, EO13, JD16, LFGK10, LYL⁺17, NBSMN19, RDC⁺19, TCFP19, TDS⁺10].

Environmental

[BISZ17, BSFH10, BGR14, BCM⁺17, CLWD13, DLP13, DDH⁺19, FRA⁺17, HGdG⁺19, HJT⁺13a, LCBC16, TSSH19, All10b, BL13, BMC⁺16, BHB⁺12, DJD⁺14, ETKL15, GM12, GRSD⁺14, HS10, JZZY18, KIH⁺15, KFP⁺18, LJL⁺18, MMGO⁺17b, MZH15, MMBP18, PSS⁺14, PSNE15, RBI⁺10, Sch19, SBM⁺15, TNI19, TGC⁺10, WJHS18, WCV⁺12, ZTW⁺11, HJT⁺13b]. **environments** [CMMKH12, GPCJ16, KYG⁺12, KLM⁺17, MCC⁺10, MCT⁺14, NCT⁺15, PST⁺13, SPS19, SNG⁺14]. **Enzyme** [TG17, FCD12]. **EPA** [Bre10]. **ephemeral** [DBRB⁺15]. **ephippia** [SBvH⁺15]. **epibenthic** [CG17]. **epibiont** [FA10]. **epilimnetic** [SNO⁺16]. **epilimnion** [SZH⁺10, vEG10]. **epilithic** [MU17]. **epipelagic** [CÁSO⁺16, CPHD15]. **Episodes** [CF10]. **Episodic** [JABZ19, OFGF12]. **epizootics** [FSBT16]. **Eppley** [KTL17]. **EPS** [TMK⁺13]. **EPS-degrading** [TMK⁺13]. **Equal** [IWF19]. **equally** [GPCJ16]. **Equatorial** [Ano17l, NG13, ZXZ17b, CFAE⁺15, KBL⁺10, MVL⁺10, RS16, RZW11, SSG⁺17, SL10b]. **equilibrium** [HBR⁺14]. **Erie** [JABZ19, JHLK⁺19, LEK⁺18, MWBM19, NXL⁺18, PE13, PFH⁺17, TSDF⁺16, VBBR15, WSTD10]. **erodibility** [JPH⁺18]. **erosion** [BBR⁺14, KTH⁺19, dBWL⁺13]. **Erratum** [AAIA14b, Ano10, Ano15, Ano18a, Ano18b, Ano19b, Ano19c, BWD⁺12, CR10,

CK13, DdG10, GJWS16, HJT^{+13b}, LGC13b, RCSÁS⁺¹⁰, SS12b, ZXN⁺¹²].
eruption [MBE⁺¹³]. **erythraeum** [BRS⁺¹³]. **Erythrobacter** [FYT⁺¹²].
escape [PST⁺¹³]. **Escherichia** [GWN⁺¹²]. **Esox** [MF19]. **Essential**
[VdSLC⁺¹⁶]. **established** [OLC18]. **establishment**
[CZB⁺¹⁸, VP15b, ZEXH15]. **ester** [OALD10]. **esters** [CBP12, PT11].
estimate [ACD10, HGvB⁺¹³, RPK17, SSB⁺¹⁸, SH10a, SW11]. **estimated**
[HE10, INF12, MQJG13, YKT⁺¹⁵]. **Estimates** [BMN16, ADCH18, BGB⁺¹⁴,
DVC⁺¹⁷, KTH⁺¹⁹, MRSS12, NSG⁺¹⁶, SMM11, VBC⁺¹²]. **Estimating**
[CLLH14, CJHR19, HGD14, MHT13, SBT⁺¹⁹, SL10a]. **estimation** [SC10].
estuaries [CF14, DSS⁺¹¹, EMS16, HHHT19, HLH13, LDY⁺¹⁶, LLH⁺¹⁵,
LS14, MHPW18, PMY^{+19b}, PMY19a, RMH⁺¹⁷, SL10a, WLG⁺¹⁶, WE19,
WJHS18, WTN⁺¹⁵]. **Estuarine**
[BGM⁺¹³, Sha10, BLG⁺¹⁵, BGR14, CJS⁺¹⁷, Clo18, ES13, FC11, GPCJ16,
HMH⁺¹⁶, JBT11, KGM14, KPP⁺¹⁸, MMXC15, MT11, MD15, RKBA14,
SML⁺¹⁹, SSL⁺¹², SPGRP⁺¹⁷, VIS⁺¹³, WHL⁺¹¹, WJHS18, vdHHC⁺¹⁹].
estuarine-scale [KPP⁺¹⁸]. **estuary** [ADCH18, AC15, BWBB15, BBJ⁺¹⁹,
BGM⁺¹³, CMW⁺¹⁹, Clo19, CAS⁺¹⁷, CFF⁺¹⁷, EHT10, FPG11, FDL17,
FYVU17, FDB⁺¹⁵, GLI⁺¹⁵, GMBL16, GPS15, HPM⁺¹⁰, HMFF10, KT13,
LC11, MAB⁺¹⁷, MDE11, NGB17, PCPZ18, PHPH⁺¹⁶, REE⁺¹², RRB⁺¹⁶,
RGB⁺¹⁹, RNT⁺¹⁹, RHMSE15, SCR⁺¹², SLK⁺¹⁴, Spi15, TCFP19, VW17,
WLS⁺¹¹, WDCH18, WGC⁺¹³, WGCC14, YH17, BPW⁺¹⁹, CWRX19,
GOD⁺¹⁸, HT17a, LZC⁺¹⁴, Sha10, UMHH⁺¹⁴, WCJ⁺¹⁷, ZYZ19]. **Ethiopian**
[HMV⁺¹⁸]. **ethyl** [HKU⁺¹⁰]. **Etive** [HGvB⁺¹³]. **Eubosmina** [FSST11].
Eucampia [MEM⁺¹⁷]. **Eudiaptomus** [GPL11, KNA⁺¹⁴]. **eukaryotes**
[DKSA19]. **eukaryotic** [BMM⁺¹³, CFVU11, SKKV11, TFLS14]. **euphausiid**
[DOD10, NSO19]. **euphotic** [KBL⁺¹⁰, LKT17, MGK15, XLS⁺¹⁹]. **Europe**
[GTPB⁺¹¹, SvKP⁺¹⁸]. **European** [FSST11, RLB⁺¹⁰, SJB⁺¹⁹].
Eurytemora [LRY12]. **eutrophic** [DHW11, DHH15, GMBL16, JP10,
MMGP⁺¹², MMN⁺¹⁰, MGL⁺¹⁶, MGW⁺¹³, NWT⁺¹⁹, PD11, QWRJ10,
SWD11, SSYT14, SSGL19, TGC⁺¹⁰, TCG⁺¹⁷, TTV⁺¹³, TST⁺¹⁹, VLDM19,
WCM19, XPQ⁺¹⁰, ZPK⁺¹², dKYH⁺¹², dKNL⁺¹⁵]. **Eutrophication**
[LH19, AMQ⁺¹¹, BHC13, BHC14, BG10a, ES13, JHW⁺¹⁹, KGRV18,
MJJMM17, MLS⁺¹⁴, PRS⁺¹⁸, PSH⁺¹¹, PSD⁺¹⁷, RQC⁺¹⁵, RKG⁺¹¹,
RCIB14, SLE10, SWCL12, SM10, SDH⁺¹⁴, Tad10, YP18]. **eutrophied**
[TBLG14]. **evaluate** [SSYT14]. **evaluated** [BTH⁺¹⁶]. **Evaluating**
[BSG14, BSSR10]. **Evaluation** [DB11, HZC⁺¹³, MCH12, SSPK⁺¹², SC10].
evaluations [PE17]. **evaporation** [BWBB15, BGB⁺¹⁴, VLWV14].
evaporative [SBB⁺¹⁸]. **evasion** [RHMSE15, SSU⁺¹⁶]. **Even** [WGM16].
evenness [LTPA17]. **event**
[BAA⁺¹³, CHL10, KHPIP⁺¹⁴, MMB17, PMP⁺¹⁷, PST⁺¹³]. **events**
[BBLN11, CH11, LWS⁺¹⁷, MFM⁺¹², NXL⁺¹⁸, OBT⁺¹¹, PRS⁺¹⁸, PKWS19,
REE⁺¹², VBBR17]. **Everglades** [HCK10, SGA⁺¹⁷]. **Evidence**
[BHB⁺¹⁹, BMDC10, DVSV13, FHR⁺¹⁵, FWO⁺¹⁸, GFT⁺¹⁴, GSZL13,
HHHT19, KBA⁺¹², MCC⁺¹⁰, MVT⁺¹⁷, NMST18, PK14, SNTK15, Tad10,

TGG⁺¹¹, UFW⁺¹⁸, WSB⁺¹³, ZHN⁺¹⁰, Alo17, BWBB15, BD15, FPD⁺¹⁰, GdVT⁺¹¹, GWB⁺¹⁴, HEB⁺¹⁹, JAZ⁺¹⁰, JTV⁺¹⁶, LL11, LEG⁺¹⁰, Meh10, RRD14, SSS⁺¹⁶, SAP⁺¹¹, THA17, UCOG16]. **evolution** [GSBR11, LYL⁺¹⁷, NTA14, NAH⁺¹¹, PDP⁺¹⁰, RSG11, SI10, SOM⁺¹⁵]. **Evolutionary** [HST⁺¹⁴, HL13, JLG11, RG19, SYdTP⁺¹¹, SBDS⁺¹⁵]. **Exaiptasia** [HRPW15]. **Examining** [MGL⁺¹³, PRS⁺¹⁸, KCB⁺¹⁷]. **Examples** [CJS⁺¹⁷]. **Exceptional** [GDCM13, SWD⁺¹⁴]. **exceptionally** [RLB⁺¹⁰]. **Exchange** [ALL^{+10a}, AFG⁺¹⁶, Ano10, BC10, CF14, CMB10, FEW⁺¹⁴, GLF18, Kus14, MRSE10, NHP17, RHSD⁺¹⁰, SCR⁺¹², TvBR⁺¹⁹, VPC10, WMI⁺¹⁷]. **excited** [MA18]. **excretion** [BWP⁺¹⁰, HLGA17, VFME18]. **exhibit** [BRM⁺¹⁹, CESC13]. **exhibited** [WHD10]. **exist** [CR16]. **existence** [CLFW17, MCYR17]. **expolymer** [AAC⁺¹⁹]. **exotic** [CBP10, PCPZ18]. **exotics** [KS16]. **experiences** [APS⁺¹⁹]. **experiencing** [PK14]. **experiment** [BBT⁺¹⁰, CFD⁺¹¹, CCK⁺¹², DIC⁺¹⁸, EED10, GVS⁺¹⁰, KCB⁺¹⁷, MKBSK19, PGP⁺¹⁴, PBV16, SJB⁺¹⁹, Spi15, SVG⁺¹⁸, ZS18, ZLLM10]. **Experimental** [Alo17, FPD⁺¹⁰, HEB⁺¹⁹, KRB⁺¹⁸, LL11, LEG⁺¹⁰, THA17, MCH12, MBC⁺¹⁸, MU17, MW15, RKLH11, RRD14, SGJB14, VMF⁺¹¹, ZCK⁺¹⁶]. **experimentally** [Kus14]. **experiments** [CLLH14, GKS12, JWS15, KGC⁺¹², KFJ13, Lan14, Lat14, LFL17, OWS⁺¹⁷, PCW19, SMMF19, SNM⁺¹⁵, ZWA⁺¹⁴]. **explain** [JPH⁺¹⁸, KRR16, LFH⁺¹², PZHD18, WTN⁺¹⁵, ZSM14]. **explained** [TW10a]. **explains** [BPW⁺¹⁹, MCLT15]. **exploitation** [GMJW13]. **Exploring** [ES13, GN16, SMMF19]. **exponents** [MPM⁺¹⁵]. **Export** [MBAS⁺¹⁷, RGB⁺¹⁹, ARB⁺¹⁹, BHD⁺¹⁷, BDK⁺¹⁷, DNH⁺¹⁸, DBC⁺¹³, FEW⁺¹⁴, FUS⁺¹⁶, HV16, KHVS11, KNL10, LPO⁺¹¹, LdJMS⁺¹³, MGSM10, SSFF12, SFB12, SSH⁺¹⁴, SL10b, SLBNG11, SSGM18, WM12, WA14, WCC⁺¹⁷, XZGW17, vdJFS⁺¹⁸]. **exports** [MSGs⁺¹³]. **exposed** [BLH⁺¹³, CvHB⁺¹⁸, MF19, MBBW11, SIW⁺¹¹]. **exposure** [BH16, CCV⁺¹⁸, IOB⁺¹¹, MMGO^{+17b}, SPG⁺¹³, VSD10]. **expression** [CMS⁺¹⁸, HTL⁺¹⁸, HBB⁺¹¹, KP13, PDP⁺¹⁰, TAE⁺¹⁸]. **extant** [RPB17]. **extend** [FFA13]. **extended** [CGL⁺¹⁶, YH17]. **extending** [OMSC13]. **Extensive** [BWBB15, CWHP14, GML⁺¹², MHL⁺¹⁶, PTS12, WGRS⁺¹⁷]. **extent** [BHC13, BHC14, MRSS12, MLS⁺¹⁴, PMPD13, Tho19]. **extents** [LKT17]. **external** [SSYT14]. **Extracellular** [SCG⁺¹⁹, FNSS15, HBD⁺¹⁶, TMK⁺¹³]. **extract** [KFP⁺¹⁸]. **extraction** [TSDF⁺¹⁶]. **extrapolate** [CEPPR14]. **Extreme** [APB⁺¹⁷, CBK18, GPCJ16, GLF17, JD16, MMB17, OBT⁺¹¹, PMP⁺¹⁷, PST⁺¹³, Sch19, WLL⁺¹¹]. **extremely** [Bre14]. **extremes** [BDU⁺¹⁹]. **extrinsic** [PGP⁺¹⁴]. **exudation** [GRR⁺¹⁷, MSS⁺¹⁸].

Fa [SPB⁺¹⁴]. **face** [CFD⁺¹⁹, IR16]. **facets** [GdG11, HT17b]. **facilitates** [KYR⁺¹², MCYR17]. **facilitation** [CLN⁺¹⁹]. **factor**

[BPL⁺19b, ITO⁺17, SCQ⁺17]. **Factors** [BBQ⁺10, ERA⁺12, PMA18, SDCF16, TSC⁺19, YHS⁺17, All10b, ASH⁺14, BL13, CBS⁺17, DJD⁺14, GWN⁺12, JZZY18, MMGO⁺17b, QWRJ10, ŠNZ⁺14, TGC⁺10, uGH⁺11]. **falls** [LPO⁺11]. **Family** [Les19]. **Famine** [KNA⁺14]. **fan** [BJDMH10, RBRH10]. **farms** [SNG⁺14]. **Fast** [CESC14, GHSR⁺16, LdJMS⁺13]. **Faster** [HSB⁺13, KK11]. **Faster-growing** [HSB⁺13]. **Fate** [EOM16, CFB14, EHT10, MPvBS⁺18, NTM⁺10, OEM12, ORGE16, TIF⁺15, VLDM19, WGCC14]. **fates** [GMMV19]. **Fatty** [GLS⁺13, BISZ17, CPPdAR⁺13, CWF11, GBB19b, HSTK15, IWF19, JTV⁺16, KNA⁺14, MMXC15, MKK15, NBSMN19, TEGL11, dKYH⁺12]. **fauna** [CFAE⁺15, MTU18]. **faunal** [vOSH12]. **faveolata** [TEGL11]. **favor** [LOS12, VTH⁺18]. **Fayetteville** [HHM⁺18]. **Fe** [PKB⁺17, RRB⁺16, TSC⁺19, WGRS⁺17]. **Fear** [BMPF19]. **feast** [KNA⁺14]. **feature** [NSO19, SWD⁺14]. **features** [LALM16, dIFN10]. **fecal** [BIM⁺16, RK13, SPR⁺15, WRS13]. **fed** [AC15, CFAE⁺15, HC10, HCF⁺10, HC12, WGCC14]. **Feedback** [AHH⁺16, GK10, BKA⁺14]. **feedbacks** [HW16]. **feeders** [MSSH12].

Feeding
[GBB⁺18, PTS⁺19, SGCI14, SAPI14, VIS⁺13, WMP⁺19, CLLH14, ETI⁺16, GPL11, GK15, HRG⁺15, KVMA17, KGC⁺16, KSTA18a, LSK11, MJH⁺16, PCF14, PVA⁺19, SBDS⁺15, TRA19, WD15, XNK18, ZTS13, Ano19c]. **feeding-current** [GK15, KGC⁺16, XNK18]. **felix** [ASR⁺17]. **females** [SGCI14]. **ferric** [XSAHV13]. **ferritin** [CMS⁺18]. **fertilization** [CFD⁺11, DKG15, DFK⁺17, MGGS18, MLL⁺14]. **fertilized** [JTG⁺11, OCLW11]. **fetch** [vEG10]. **Fewer** [LPLH18]. **fiddler** [LDCT11]. **Field** [RRD14, BBT⁺10, GBK⁺18, HLSW⁺15, INF12, JGR⁺14, KZR⁺19, MU17, NSO19, PHPH⁺16, Spi15, VMMS⁺13, ZS18]. **fields** [GMD11, VLMTEW11]. **Fight** [SFWP12]. **filament** [TIF⁺15]. **filamentous** [FLLH18, ŠSP17, VSP⁺11]. **filter** [ACC⁺17, CGB⁺18, LSK11, MSSH12]. **filter-feeding** [LSK11]. **filtering** [LJL⁺18]. **filtration** [JYS18]. **find** [LKK13]. **Fine** [GRSD⁺14, WGJ⁺19, WJHS18]. **Fine-scale** [WJHS18]. **finely** [SNZ⁺14]. **finite** [MPM⁺15]. **finite-time** [MPM⁺15]. **finmarchicus** [CBP12, HTL⁺18, JWGH19, JMN15, MMJ⁺12, PPT12]. **fire** [DPG⁺12]. **fire-affected** [DPG⁺12]. **First** [BD15, AMNU16]. **Fish** [CA08, PJFJ⁺15, SH10a, FDP⁺18, FC11, GM12, GEC⁺17, GMJW13, GBK⁺18, HCD19, HCS11, IPGP10, JGR⁺14, KCH⁺12, KYR⁺12, KGRV18, LP10, MG14, MTEM15, MWR17, Meh10, MVNG11, MS13, NZH⁺11, PCF14, PHDH14, RWF⁺12, SPS19, SSH⁺16, SBK18, SVS⁺19, SNG⁺14, TDF⁺17, WJHS18, WDH⁺17, WS13, XZC⁺16, ZPK⁺12]. **fishes** [CFRL10, CPHD15, FCD12, TWP13]. **fishing** [SPP⁺16]. **fishponds** [ŠGN⁺19]. **Fitness** [HL13, HP19, IWF19, PvEF12]. **fixation** [AFSM17, ASH⁺14, BAA⁺13, BDK⁺17, CvHB⁺18, CJW⁺19, FWWF18, GWB⁺14, GBD⁺10, Ho13, HVD⁺18, JSH12, LWE⁺11, LWrDM⁺12, LWWE⁺18, MFK⁺13, MGL⁺16, MCGF⁺11, MBBG⁺12, RWC16, RKTLM18, SHT⁺17,

SM10, SM11b, SKK⁺¹³, SFI⁺¹⁸, TMH⁺¹⁰, WDMF13, WCC⁺¹⁷, ZCY⁺¹⁵].
fixed [CRJ⁺¹⁴, MPvBS⁺¹⁸]. **fixing** [GBC⁺¹⁷, SK19, YLH⁺¹⁶]. **fjord**
 [AGMR14, CHHT18, DHG⁺¹⁷, DJS18, GLKK10, JP10, MGS12, PML⁺¹⁹,
 RHSD⁺¹⁰, SKJD⁺¹⁴, WCB⁺¹⁰]. **fjords**
 [HDDH⁺¹⁷, MWS10, MSK⁺¹⁷, MMD18]. **flagellates** [ŠGH⁺¹⁸, SBFB17].
flat [PCD⁺¹⁹]. **flatfish** [BCDR⁺¹⁹]. **flats** [LSD18]. **flea** [BBS12, HMV⁺¹⁸].
flexibility [AGML18, DLP13, HSB⁺¹³]. **flexible** [DBMP⁺¹¹, LN11].
flexural [RN14]. **flight** [SFWP12]. **floating**
 [HZC⁺¹³, RCJ15, VPC10, uGH⁺¹¹]. **Flocs** [ZSZ12]. **flood**
 [BGM⁺¹³, CHL10]. **flooded** [MF19]. **flooding** [RKWH18, YH17].
Floodplain [SFB12, AHD⁺¹⁸, FBFR13, RHMSE15, SDS⁺¹⁶]. **floods**
 [APB⁺¹⁷, RHMSE15]. **Florida**
 [AC17, BR17, HTLM18, HCS11, MBLP11, SGA⁺¹⁷, SS12b, SS12c, SL10a].
Flow [LN11, MDS⁺¹⁰, AGML18, AJC15, BLH⁺¹³, CT18a, CFAE⁺¹⁵,
 CFD⁺¹⁹, DIC⁺¹⁸, FPP⁺¹⁹, HCD19, KHH19, KOFN11, MBHG11, MZH15,
 MMPSB14, MAD⁺¹⁵, OHKC⁺¹², PMY^{+19b}, SWM⁺¹⁰, SGA⁺¹⁷, SCP⁺¹⁶,
 TBAS14, TRA19, WZTK15, WWS11]. **flow-dominated** [PMY^{+19b}].
Flow-induced [LN11]. **flow-through** [MAD⁺¹⁵]. **flowing**
 [BHG⁺¹⁸, SAH⁺¹⁹]. **Flowpath** [CMS17]. **flows**
 [BSY⁺¹⁶, DRP⁺¹⁷, NMST18, ZSZ12, vOSH12]. **fluctuating** [MSS⁺¹⁸].
fluctuation [LSH⁺¹⁷, WXMS10]. **fluctuations**
 [FDH⁺¹⁴, LBB18, SGH12, SGG⁺¹¹, SNK12, SWD11, SMA15, WCS⁺¹⁸].
fluid [SLK⁺¹⁴, SC10, WKS13]. **flume**
 [AFG⁺¹⁶, DIC⁺¹⁸, DBA16, KGC⁺¹²]. **Fluorescence**
 [FHS10, LHSG15, AC15, FPG11, HSLH⁺¹⁴, HGD14, WMC⁺¹⁵].
Fluorescence-based [LHSG15]. **fluorescent**
 [CÁSO⁺¹⁶, CK12, CK13, MCC⁺¹⁰, PFJ10, THH⁺¹³, YHS⁺¹⁷].
fluorometer [PFJ10]. **Fluvial** [BBLN11]. **flux**
 [BR17, BLG⁺¹⁵, CHS⁺¹⁸, DVDB16, FLP⁺¹⁰, HLJ12, JBT11, JTG⁺¹¹, KB15,
 Kus14, LGC16, MAC⁺¹⁰, OY10, RMH⁺¹⁷, RK13, SSFF12, SSG⁺¹⁷, SBM16,
 SPR⁺¹⁵, SL10b, SC10, SSS⁺¹⁹, TIS⁺¹³, WRS13, YKT⁺¹⁵, YH17, ZCZ⁺¹⁸].
Fluxes [MdBKL13, AWK⁺¹⁷, AP12, ACD10, ASL16, BMF⁺¹⁶, BHB⁺¹⁹,
 BLH⁺¹³, BMD17, CMW⁺¹⁹, CT18b, CKB⁺¹⁶, DFWPK16, EMO⁺¹¹,
 GCSO14, GNHGM13, GSPM13, GJR⁺¹⁹, GN16, HCW⁺¹⁰, HCLS11,
 HTLM18, HEBS10, HSC⁺¹¹, HBM11, JMJ⁺¹⁹, KKH11, KBM⁺¹⁴, MCYR17,
 NSG⁺¹⁶, NHS⁺¹², OBT⁺¹¹, OFGF12, PSB⁺¹⁶, RKL14, SLK⁺¹⁴, SH10a,
 SS12b, SS12c, TEZ⁺¹⁸, WLHW13, ZHD⁺¹⁶]. **focusing** [MMFBB18].
following [AEH19, BDC⁺¹⁴, MGL⁺¹³, TMH⁺¹⁸, VLWV14]. **Food**
 [KKB⁺¹⁸, KGL⁺¹⁶, MBK⁺¹¹, VMC⁺¹³, Ano19c, BCC⁺¹², BMPF19,
 CPPdAR⁺¹³, CBF11, CPHD15, CS12, CBF10, DFK⁺¹⁷, DML17, DHK11,
 DvOR⁺¹⁶, DRP⁺¹⁷, FGBS⁺¹⁸, FHR⁺¹⁵, FCRW⁺¹⁶, FPSL18, FWvD⁺¹⁸,
 GLS⁺¹³, GFDC11, GBB⁺¹⁸, GRDPL14, HOD⁺¹⁷, HDDH⁺¹⁷, JTV⁺¹⁶,
 JC14, KBA⁺¹², KLM⁺¹⁷, KWB⁺¹⁶, LEN⁺¹⁵, LPLH18, LJL⁺¹⁸, LHLT13,
 LWWC⁺¹⁶, MKB⁺¹⁹, MDB16, MDF⁺¹⁴, MPK⁺¹³, MBLD15, MMJ⁺¹²,

NB17, PVEF12, PCF14, PH13, PDER10, PWF18, PLE⁺¹⁷, RHV⁺¹³, SCF⁺¹⁵, ŠNZ⁺¹⁴, ŠGH⁺¹⁸, ŠGN⁺¹⁹, SWP11, SMG12, SBA⁺¹¹, SL10b, SCP⁺¹⁶, TIF⁺¹⁵, TYX⁺¹⁹, TSK13, VMF⁺¹¹, VABMS⁺¹², WDJF12, WRO⁺¹¹, WD15, WMP⁺¹⁹, ZTS13, ZPK⁺¹², vOSH12]. **food-web** [HOD⁺¹⁷, WDJF12]. **food-webs** [SCP⁺¹⁶]. **foodwebs** [GBS17, KS16]. **Foraging** [XNK18, CMG⁺¹⁵, GMD11, MJH⁺¹⁶, SAS⁺¹¹]. **foraminifer** [HONR11]. **Foraminifera** [NCT⁺¹⁴, NCT⁺¹⁵, RSTP12, SHKU11, UA10]. **force** [RN14]. **forced** [SLK⁺¹⁰]. **forces** [JD16, KCH⁺¹², VP15b]. **forcing** [AA11, BPPF12, BLM⁺¹⁰, FZL⁺¹⁴, GWN⁺¹², GMGM⁺¹³, KHTO13, KWRS13, PMLC⁺¹⁰, RPG13, RGM15, SRAB10, SRA10, WFL⁺¹²]. **forecasting** [LC12]. **forest** [LWS⁺¹⁷, RMDK10, vEG10]. **forested** [LBR⁺¹²]. **forests** [OCR10, RDZ⁺¹³]. **foretaste** [RLB⁺¹⁰]. **form** [SRM⁺¹⁸]. **Formation** [BBR⁺¹⁴, YAC⁺¹⁹, BNW^{+14a}, CFD⁺¹⁹, HNZ⁺¹⁶, JSK⁺¹⁵, KZR⁺¹⁶, LFH⁺¹², Lee18, LBS17, MDB19, MA18, MAF19, MCC⁺¹⁰, NO17, OCB⁺¹⁸, RLC⁺¹¹, Sch19, ŠSP17, TT12, WBS⁺¹⁰]. **former** [MMN⁺¹⁰]. **forming** [ARB⁺¹⁹, GK10, WBG⁺¹⁶, WdBJF16, WGM16, YKBJL12]. **Formosa** [IR16]. **Formulation** [MCH12, Lat14]. **fornicata** [NBDM16]. **fosters** [WGDAA19]. **Founder** [HMV⁺¹⁸]. **four** [ELJ⁺¹⁶, SMN⁺¹⁵, TW10a]. **fraction** [ZD18]. **fractionated** [LYH17, SPGRP⁺¹⁷]. **fractionation** [Ano10, BC10, BLJ13, CFD15, CMB10, CKCEP10, CCC10, DT16, DLBF17, MC16, SES18, WMBR13, WYL16]. **fragilissimus** [TJJ⁺¹⁵]. **fragmentation** [ARML10]. **fragments** [ZXM⁺¹¹]. **Fram** [GRT⁺¹⁴]. **framework** [FFA13]. **France** [PDER10]. **franciscana** [BPL^{+19a}, JW14]. **Francisco** [CJS⁺¹⁷, GOD⁺¹⁸]. **free** [MWBM19, MVT⁺¹⁷, NXL⁺¹⁸, SES18, SRCL⁺¹³, TCG⁺¹⁷, WCB⁺¹⁰]. **free-living** [MVT⁺¹⁷, TCG⁺¹⁷]. **freeze** [HMF16]. **freeze-coring** [HMF16]. **frequency** [AJC15, BCRW15, GGC⁺¹⁴, IH18, PMLC⁺¹⁰, SLHA19, SDS⁺¹¹, vH19]. **fresh** [LHSBP18, OCB⁺¹⁸, SSL⁺¹²]. **freshwater** [ASW⁺¹⁹, BB11, BSM17, CEES14, FHS10, GWSEA10, GMS⁺¹⁸, GdG11, HW16, HCL⁺¹⁸, HKU⁺¹⁰, HMFF12, JMJ⁺¹⁹, KNA⁺¹⁴, KSY11, KOFN11, LZR⁺¹⁷, LJJ⁺¹⁸, LFC17, LRG16, MTU18, MPK⁺¹³, MXWC11, NTA14, àNTS13, PE16a, PBL⁺¹⁸, PBV16, PSZ⁺¹³, RSJ⁺¹⁸, RJFMG17, SYdTP⁺¹¹, SGA10, ŠNZ⁺¹⁴, ŠGH⁺¹⁸, SWD11, SS19, TW10a, TW11, THH⁺¹³, VPC10, VP15a, XXZ⁺¹⁹]. **freshwater-marine** [BSM17]. **freshwater-tidal** [HMFF12]. **freshwaters** [AAC⁺¹⁹, DBFL11, YJO⁺¹⁹]. **friends** [BBMS17]. **frigida** [AJ15]. **fringing** [BMF⁺¹⁶, CSU13, NLHAA⁺¹⁷, WFL⁺¹², WLHW13]. **front** [CLFW17, NLO⁺¹²]. **frontal** [MS13]. **fronts** [TB18, WGJ⁺¹⁹, WMT⁺¹²]. **frozen** [BBC⁺¹³]. **Frustule** [DMB⁺¹²]. **Frustule-related** [DMB⁺¹²]. **frustules** [WHH⁺¹¹]. **Fryxell** [SSS⁺¹⁶]. **Fuchskuhle** [CCC10]. **fucoïd** [BMD17]. **Fucus** [ARB⁺¹⁹, RCJ15]. **fuel** [OSB⁺¹⁵, TMK⁺¹³]. **fueled** [OCB⁺¹⁸, TLR⁺¹³]. **fueling** [CPPdAR⁺¹³]. **fuels** [GBD⁺¹⁰, XBR⁺¹⁸]. **Fukami** [NUH⁺¹²]. **Fukami-ike** [NUH⁺¹²]. **fully** [WRH⁺¹⁷]. **function** [BGM⁺¹³, GBR14, LFGK10, MMB17, PDFS14, PDP⁺¹⁰, PJFJ⁺¹⁵, VZJ⁺¹⁷].

Functional [MMWR17, TW10b, BDS11, KSTA18a, RSJ⁺18, SMMF19, TBLG14, WKAM⁺19, ZCL⁺19]. **functionally** [ASSG12]. **functioning** [RGB⁺19, SNG⁺14]. **functions** [BSCC15]. **fundyense** [BVSR⁺15, HLSW⁺15, MTH⁺11]. **Fungal** [FWvD⁺18, MM11, MU17]. **fungi** [KOFN11, MKW⁺19]. **future** [BSFH10, CUW11, FCC11, PE16a, PCPZ18, RLB⁺10].

gain [CEES14, JLG11]. **gaining** [DBA16]. **galeata** [SZH⁺10]. **galeata-hyalina** [SZH⁺10]. **gammaproteobacterial** [OMB⁺16]. **gas** [BBJ⁺19, GKS12, KBJ⁺18, Kus14, LVDM19, LVM⁺10, LDL⁺19, MQJG13, OBT⁺11, RMH⁺17, SBM16, SSU⁺16, SOM17, SSB⁺16, TBK15, TSDF⁺16, VPC10, vBBM⁺19]. **gases** [BWB⁺10, WKB⁺10]. **Gasterosteus** [KKHP14]. **gastropod** [HA16, NBDM16]. **gastropods** [SGG⁺11]. **Gdańsk** [PSZ⁺13]. **GDGT** [ZKMT⁺13]. **GDGT-based** [ZKMT⁺13]. **gelatinous** [HRMD19, RWB⁺19]. **gene** [CMS⁺18, DMB⁺12, HTL⁺18, HBB⁺11, RSJ⁺18, SSS⁺16, TAE⁺18]. **General** [SL10a]. **generalist** [LGV13, TMK⁺13]. **Generalizations** [SdlFdlF⁺10]. **generated** [GTPB⁺11, HD19]. **generation** [LF19, PPL10]. **generations** [GNWDL19]. **Genetic** [All10b, MXWC11, ELJ⁺16, H MV⁺18, IBPG17, JB19, LLL10, MNW⁺19, PSS⁺14, PMP⁺12]. **Genetically** [CR16, GRSD⁺14]. **Geneva** [CLB19]. **genotype** [PMP⁺12]. **genotype-specific** [PMP⁺12]. **genus** [LDCT11]. **Geochemical** [LFB⁺10, SAP⁺11, YWY⁺15, DSM⁺18, GdVT⁺11, HSP⁺16]. **geochemistry** [CF10, DHZ⁺19, MWC⁺16, NEH⁺19]. **Geodia** [LKF⁺18]. **Geographic** [BGP⁺15, WV⁺18]. **geographical** [YHS⁺17, YYMN13]. **geography** [ASW⁺19]. **geologies** [RAB⁺17]. **geomorphic** [CSU13, GSBR11]. **geomorphically** [EMS16]. **geomorphology** [DHZ⁺19]. **Geophysical** [MHH⁺17]. **George** [SWD⁺14]. **Georges** [MBBG⁺12]. **Georgia** [JMM14, LHSBP18]. **Gephyrocapsa** [THFG16, ZBSR15]. **Germany** [BSSW11, WBS⁺10]. **get** [BBMS17]. **gets** [MDB16]. **Getting** [LHLT13]. **Giant** [KZR⁺16, KZR⁺19, BRNS18, DPM18, MBLP11, MJH⁺16, MRB11, PMLC⁺10, RCH⁺15, SDS⁺11, WMP⁺19]. **gigas** [BHW⁺12, BMC⁺16]. **Giling** [Ano21a]. **Gill** [FCD12, TRA19]. **glacial** [MSAM18, PJUR15, SS12a, VZJ⁺17]. **glacialis** [FNSS15, JMN15, PPT12]. **glaciated** [FBFR13]. **glacier** [CFAE⁺15, FHR⁺15]. **glacier-fed** [CFAE⁺15]. **Gladiferens** [HAL17]. **glass** [KYC⁺15]. **glauca** [VdSLC⁺16]. **Glibert** [CJC⁺12]. **gliders** [SBM⁺15]. **Global** [BM16, MRE18, RBG⁺10, dGD13, VP15a, CÁSO⁺16, ESMS13, KKH11, MJJMM17, MRSS12, ML19, SHSK14, SCG⁺19, WDJF12, WGM16, WV⁺18]. **globe** [SBR⁺13]. **globosa** [LG10]. **glomalin** [AWG⁺12]. **glycolipids** [WCV⁺12]. **goby** [TB18]. **GOCI** [QHVM18]. **golden** [LLW⁺18]. **Goldman** [HSB⁺13]. **gondii** [SSL⁺12]. **Gonyostomum** [LFH⁺12]. **Gorges** [RBY⁺17]. **governed** [ABS⁺19, RVvdP⁺17]. **governing** [TSC⁺19]. **Gracilaria** [GSPM13]. **gracilis** [GPL11, KNA⁺14]. **gradient**

[ARML10, BSA⁺¹⁶, CHH⁺¹⁷, CJS⁺¹⁷, DJS18, FOT⁺¹⁵, GEC⁺¹⁷, LZR⁺¹⁷, MvdPK⁺¹⁵, MHPW18, PSS⁺¹⁴, RBM14, RLL⁺¹⁰, SSU⁺¹⁶, SLBH⁺¹⁹, SPGRP⁺¹⁷, SBH⁺¹¹, WSUC⁺¹⁸, WMP⁺¹⁹, YP18]. **gradients** [ABD⁺¹⁷, BVC⁺¹⁴, FWO⁺¹⁸, GRSD⁺¹⁴, HS10, JKKM13, LV16, PMY^{+19b}, SHSK14]. **grained** [CHW14]. **Grand** [HYK⁺¹⁵, SOO⁺¹⁷]. **grass** [PCPZ18]. **gravel** [MAD⁺¹⁵]. **gravels** [TMH⁺¹⁰]. **gravitational** [SSGM18]. **gray** [RWM⁺¹⁹]. **Grazer** [BTJ⁺¹², LG10, BH13, HMD11, HNZ⁺¹⁶, HCL⁺¹⁸, SFWP12]. **Grazer-induced** [BTJ⁺¹², LG10, HNZ⁺¹⁶, HCL⁺¹⁸, SFWP12]. **grazers** [JLC⁺¹⁵, RRD14, SMMF19]. **Grazing** [LFH⁺¹², MDSG18, BTJ⁺¹², CL10, CLHL12, CLLH14, CSS⁺¹⁶, CPF16, EB12, GLMG15, GNWDL19, KYC⁺¹⁵, KBL⁺¹⁰, Lat14, LFL17, MAV⁺¹³, MSAM18, MDS⁺¹⁰, PS17, SRM⁺¹⁸, SNM⁺¹⁵, ŠSP17, WKK⁺¹¹]. **Great** [BBM11, FPD⁺¹⁰, RSE⁺¹⁷, RDB⁺¹⁸, SOO⁺¹⁷, ZNVF16, BDB⁺¹⁴, BPL^{+19a}, BWS10, BGW⁺¹⁵, CUW11, DC15, FLP⁺¹⁰, FVSL19, JAS⁺¹⁵, JW14, LÁSDC18, MLC13, OWFS11, RGG⁺¹⁰, SSH⁺¹⁶, UA10]. **greater** [HAA⁺¹⁹]. **Green** [HHM⁺¹⁸, HZC⁺¹³, HCL⁺¹⁸, LDT⁺¹¹, RWM⁺¹⁹, VFS⁺¹⁵, WXF⁺¹⁵, YLH⁺¹⁶, ZXN⁺¹¹]. **Greenhouse** [SBM16, BWB⁺¹⁰, BBJ⁺¹⁹, KBJ⁺¹⁸, LVM⁺¹⁰, LDL⁺¹⁹, WKB⁺¹⁰, vBBM⁺¹⁹]. **Greenland** [ACW⁺¹⁸, AGMR14, FGMN17, HNSM12, MSAM18, MGS12, PML⁺¹⁹, RHV⁺¹³, SNO⁺¹⁶, SKJD⁺¹⁴]. **gross** [BPB⁺¹⁷, DdG10, QS19]. **Grosse** [CCC10]. **grounds** [SVS⁺¹⁹]. **Groundwater** [LDL⁺¹⁹, MSGS⁺¹³, WSM⁺¹⁹, DB11, GSZL13, KDGL19, KKH11, KSG⁺¹⁰, LKS⁺¹⁶, LKLH10, LSH⁺¹⁷, LCH⁺¹⁴, LSD18, MGT15, OBL⁺¹⁹, PVLMT⁺¹⁶, RDP⁺¹⁷, RGM15, SS12b, SS12c, VLMTEW11, WGC⁺¹³, WGCC14]. **groundwater-borne** [SS12b, SS12c]. **Groundwater-derived** [MSGS⁺¹³, WGC⁺¹³]. **groundwater-dominated** [KSG⁺¹⁰]. **groundwater-fed** [WGCC14]. **group** [BDS11]. **groups** [ASSG12, BSFH10, KPV⁺¹¹, LCM⁺¹⁷, MMPSB14, OCLW11, SPP10, SDMK10]. **growing** [HSB⁺¹³, RLSC⁺¹³, SNK12]. **grown** [THFG16]. **Growth** [CRB⁺¹⁷, LLB17, TBSR13, ADCH18, AA18, BYD19, BPW⁺¹⁹, BBTK⁺¹⁶, BWD⁺¹¹, BWD⁺¹², BPL^{+19b}, Bre10, BVSR⁺¹⁵, CL10, CL11, CH11, ETKL12, ETKL15, ETKL16, FRA⁺¹⁷, Fie13, FDS⁺¹⁴, FDBW16, GBL13, HST⁺¹⁴, HLG15, HLSW⁺¹⁵, HCK11, IH11, KG18, KMP⁺¹¹, KWGS18, KWGN⁺¹⁰, KTL17, LLL10, Lat14, LGV13, LBHS13, LFL17, LWWC⁺¹⁶, LCBC16, MCH12, MCWB10, MM11, MWC⁺¹⁶, MGS12, MDE11, NBSMN19, RSTS⁺¹⁸, SLU11, SASB⁺¹⁵, SJM11, SDS⁺¹¹, ŠGH⁺¹⁸, SW11, SNM⁺¹⁵, SSGL19, THFG16, UA10, WAB⁺¹⁷, WCI⁺¹⁴, XPQ⁺¹⁰, dGCB⁺¹¹]. **Guanabara** [CKB⁺¹⁶]. **guano** [WGRS⁺¹⁷]. **Guaymas** [LBNT11]. **guided** [YAC⁺¹⁹]. **guild** [MAB⁺¹⁷]. **Gulf** [LGC13b, LBNT11, OrIA10, PHJ12, vdHHC⁺¹⁹, BPA12, BSC⁺¹⁵, BLLB12, CPPdAR⁺¹³, DCCB17, FCRW⁺¹⁶, GdVT⁺¹¹, GDD⁺¹⁶, GCR⁺¹⁰, GNHGM13, GBMG12, HXS⁺¹⁰, HCC⁺¹³, KZB⁺¹⁰, KMP⁺¹¹, LLH⁺¹⁵, Les16, LGC13a, MPM⁺¹⁵, MMC⁺¹⁰, MTH⁺¹¹, PGB⁺¹⁹, PSZ⁺¹³, RG13, SSFF12, STC⁺¹¹, SFB12, TGGZS⁺¹⁰, TKK⁺¹⁷, VHV10, WWC⁺¹³, WSB⁺¹³, ZMS⁺¹⁸]. **guts** [TGG⁺¹¹]. **gyre**

[DBH⁺16, FLPL13, FMM⁺14, KBVW12, CPHD15, DDK10, HPCD13, HDP15, LWB⁺17]. **Gyres** [DBV⁺11].

H [KRR16, BCF⁺17]. **H-Print** [BCF⁺17]. **Håkon** [FWFB10, LFB⁺10]. **Habitat** [BSRP⁺12, CJWS15, PHCD14, ARB⁺19, JPH⁺18, LDCT11, VdSLC⁺16, WGDA19, WdBJF16, WGM16, WDH⁺17, XZC⁺16]. **habitat-forming** [WdBJF16, WGM16]. **habitats** [DRP⁺17, EMO⁺11, EMS16, FWFB10, FLM⁺19, GYP⁺18, HCD19, HW16, MF19, MHH⁺17, SAPI14, SSH⁺16, SPB⁺14, SGS18]. **half** [CLLH14]. **half-saturation** [CLLH14]. **halide** [FYT⁺12]. **Halimeda** [VFS⁺15]. **halocline** [FDS⁺18]. **Halomethane** [JBPM15]. **Halophila** [CvHB⁺18, SLS⁺11]. **Hampshire** [SBM16]. **haploid** [KS13]. **Haptophyta** [WRH⁺18]. **Harbor** [KDGL19]. **hard** [FLP⁺10, FVSL19, JAD⁺13, MKBSK19, MAS⁺16]. **hard-substrate** [MKBSK19]. **hard-water** [FLP⁺10, FVSL19, JAD⁺13]. **hardwater** [SSGL19]. **harengus** [DDH⁺19, KKHP14, KMH⁺17]. **Harmful** [RGM⁺11, BVSR⁺15, HMD11, JLG11, KG18, KSWFG13, RKBA14, RKLH11, SBM⁺15, SMN⁺15, SS12b, SS12c, SHF⁺11, TWWY18]. **harpacticoid** [KJKS18]. **Hastigerinella** [HONR11]. **hatching** [All10b, BSBK13]. **Hatteras** [MBBG⁺12]. **HAUSGARTEN** [MKBSK19]. **Hawaii** [KDGL19, KSG⁺10, PCD⁺19, GCH⁺18]. **Hawaiian** [RDP⁺17]. **Hawai'** [PGRR⁺19]. **HCO** [KRR16]. **head** [CSGW18]. **head-capsules** [CSGW18]. **headland** [MFL11]. **headwater** [DVSV13, HHE⁺19, HAA⁺19, JBLJ12, JTH⁺13, MTT17, PCO⁺15, REDW10, SBM16, TBSL17]. **Headwaters** [XDK⁺17, VZJ⁺17]. **healthier** [MDB16]. **heat** [RKL14, SSW19, SC10, WVL⁺18]. **heatwaves** [PSD⁺17]. **heavily** [PJFJ⁺15]. **height** [SVLS⁺16]. **helgolandicus** [MHA⁺18, MMJ⁺12]. **help** [BBMS17]. **Hemiscylliidae** [WLS⁺11]. **Hemisphere** [BPRG⁺18, FRA⁺17, LHS19]. **Hemoglobin** [SZH⁺10]. **Herbicides** [NFRU11]. **herbivore** [PvEF12]. **herbivory** [GNWDL19, MMD15, MMD18, PJFJ⁺15]. **herdmani** [LRY12]. **herring** [DDH⁺19, KKHP14, KMH⁺17, NZH⁺11]. **Heterocapsa** [KMF10, MPAS17]. **heterocyst** [WCV⁺12]. **heterocystous** [GWSEA10]. **heterogeneities** [MG14]. **heterogeneity** [TLH⁺11, VBC⁺12]. **Heterogeneous** [SWM⁺10]. **Heterosigma** [HMD11]. **Heterotrophic** [PS17, TYX⁺19, TEGL11, ATP⁺15, BLMS17, DLBF17, ETI⁺16, FDS⁺14, KHG⁺13, MAFCD⁺18, MLK11, MW15, MDE11, MSD⁺14, RGGL⁺12, RGLM⁺12, SKJD⁺14, VF10]. **heterotrophs** [CL17]. **heterotrophy** [BS18b, FPPA⁺11, GBR14, HCK10, HCH⁺19, JTV⁺16, SSJR⁺10]. **Hg** [Kus14, AHD⁺18, RQC⁺15]. **hierarchical** [CAQS16]. **High** [AMQ⁺11, HH14, KJKS18, LDY⁺16, Lee18, MLD⁺16, MWS10, NXL⁺18, OCB⁺18, PHPH⁺16, RHMSE15, TCG⁺17, TDM⁺13, TAV⁺10, ÅCA⁺18, AJC15, Ano19c, ASA⁺18, ABS⁺19, BPA12, BCRW15, BCVA10, CFAE⁺15, CJHR19, DHG⁺17, DMSHC16, FGBS⁺18, GBD⁺10, GBB⁺18, HVJ⁺19,

HCK14, IH18, JD16, KCB⁺¹⁷, KvdPVB13, LdlSB⁺¹², LCW17a, LCCF10, MRKR⁺¹⁴, MSK⁺¹⁷, MCYR17, MRH⁺¹⁵, MGJH18, PRS⁺¹⁸, PHG13, RQC⁺¹⁵, RKMN⁺¹³, SMM11, SNM11, SSU⁺¹⁶, SCPE15, SDS⁺¹¹, SIW⁺¹¹, SPO⁺¹⁸, TRA19, VBBR17, WHD10, WCG⁺¹⁷, vH19, DL11, SJ11].

high-Arctic [ACA⁺¹⁸]. **high-elevation** [SMM11, SNM11]. **high-frequency** [AJC15, BCRW15, IH18, SDS⁺¹¹, vH19]. **high-irradiance-induced** [KvdPVB13]. **high-latitude** [MGJH18, RKMN⁺¹³, WHD10]. **high-light** [SCPE15]. **high-molecular-weight** [LCW17a]. **high-mountain** [DMSHC16]. **high-quality** [Ano19c, FGBS⁺¹⁸, GBB⁺¹⁸, WCG⁺¹⁷].

High-resolution [TDM⁺¹³, ABS⁺¹⁹, HCK14]. **High-turbidity** [NXL⁺¹⁸, VBBR17]. **higher** [WHL⁺¹¹]. **highlights** [JAD⁺¹³]. **highly** [BAY⁺¹⁴, DBMP⁺¹¹, EM13, GMBL16, GHS14, NSV⁺¹⁴, RNG⁺¹³, SFLB16, SW14, TCFP19, TTV⁺¹³, TDF⁺¹⁷]. **highly-productive** [GHS14]. **Hii** [MKG⁺¹⁵]. **hill** [DRP⁺¹⁷]. **Historical** [BR17, TWP13, RRAS17]. **histories** [GM12, WJHS18]. **history** [BH16, BMDC10, LAM12, LJ18, SBDS⁺¹⁵].

Hjort [FDP⁺¹⁸]. **HMMV** [FWFB10]. **HNLC** [MRH⁺¹⁵, NO17]. **holobiont** [DJD⁺¹⁴]. **Holothuroidea** [SVG⁺¹⁸]. **Homeostasis** [NCC14, HS18, SZH⁺¹⁰]. **homogenizes** [ZCL⁺¹⁹]. **hopanoids** [ZTW⁺¹¹].

Horizon [FCRW⁺¹⁶]. **horizontal** [JGR⁺¹⁴, MRSE14, OrIA10, PHJ12, PH15, WMI⁺¹⁷]. **horneri** [LLW⁺¹⁸].

host [MMWR17, PGRR⁺¹⁹]. **hosting** [HRPW15, SHKU11]. **hot** [GGL⁺¹⁵, SFLB16, WMBR13]. **hotspots** [BVvB⁺¹⁹, Man10, MFL11, TGG⁺¹¹]. **houses** [NTI⁺¹⁵]. **Hovsgol** [KZR⁺¹⁶]. **Howe** [WHD10]. **hsp** [TAE⁺¹⁸]. **Huaihe** [ZZW16]. **Huanghe** [WLG⁺¹⁶]. **Hudson** [ACD10, CS12, HMFF10, HMFF12, MGSM10]. **human** [BBK⁺¹⁵, BDC⁺¹⁴, CHH⁺¹⁷, SDS⁺¹⁶]. **human-impacted** [SDS⁺¹⁶].

human-mediated [BDC⁺¹⁴]. **humans** [TWP13]. **Humboldt** [uGH⁺¹¹].

humic [HS11, JBLJ12, OCB⁺¹⁸, RJFMG17]. **Huron** [CSU13, NHP17].

Hurricane [CWHP14]. **hurricanes** [SLG10]. **huxleyi** [ARW⁺¹⁰, BRS11, BSCC15, FRA⁺¹⁷, Fie13, FCC11, FAF⁺¹², KS13, LCCF10, MMWR17, MLGZ16, RR12, SES18, SBFC18, WA14, WRH⁺¹⁸, ZKL⁺¹⁴].

hyalina [SZH⁺¹⁰]. **hybridization** [PPT12]. **hybridizing** [RKG⁺¹¹].

hydraulic [DB13, VPWW10]. **hydrocarbons** [GPS15, ZZW16].

hydrochemistry [MAD⁺¹⁵]. **Hydrodynamic** [HHA18, AFG⁺¹⁶, JD16, MMFBB18, SNG⁺¹⁴, WP14, WHAM15].

Hydrodynamics [KCL⁺¹⁴, GWN⁺¹², RMK⁺¹⁶, RMLVK12, TDM⁺¹³].

Hydrogen [DVSV13, KBA⁺¹², VHV10]. **Hydrologic** [HCF⁺¹⁰, BDU⁺¹⁹, MBH⁺¹⁵, MAD⁺¹⁵, SBB⁺¹⁸, SRAB10, SRA10].

Hydrological [Dem19, EKS⁺¹⁸, HSP⁺¹⁶, MHPW18]. **Hydrology** [FUS⁺¹⁶, RAB⁺¹⁷]. **hydrolysis** [BB11]. **hydromedusae** [SGCC16].

hydropeaking [HYK⁺¹⁵]. **hydrothermal** [CSC⁺¹¹, SPB⁺¹⁴].

hyperboreus [JMNG⁺¹³, VGJ17]. **hypereutrophic** [CSD10, DBFL11, VTH⁺¹⁸]. **Hypersaline** [GM12, ASL16, DL11, NEH⁺¹⁹].

hypertrophic [ŠGN⁺¹⁹]. **Hypolimnetic**

[MMN⁺¹⁰, CT18a, DHW11, JAD⁺¹³, SSB⁺¹⁸, UCOG16]. **hypolimnion** [BSN⁺¹⁴, NRL15]. **hyporheic** [FUS⁺¹⁶, LTH⁺¹², SC10]. **hypothesis** [FDP⁺¹⁸, IH11, Lan14, Lat14, LJL⁺¹⁸, MMFBB18, PWWF18]. **Hypoxia** [HJB⁺¹², TK12, CG17, CWRX19, HD19, JABZ19, JAD⁺¹³, KT13, NPT11, PMPD13, RSG11, Scu16, Sha10, VSD10, WCJ⁺¹⁷, ZSM14]. **hypoxia-driven** [VSD10]. **Hypoxia-induced** [TK12]. **Hypoxic** [REE⁺¹², BSC⁺¹⁵, HT17a, LWS⁺¹⁷, RRB⁺¹⁶, SSGB⁺¹⁷]. **hysteresis** [CSME13].

Iberia [IR16]. **Iberian** [VMCM⁺¹⁷, CMM⁺¹¹, TAV⁺¹⁰]. **Ice** [MWR17, NHP17, SLA⁺¹⁸, VMAS⁺¹⁶, YAC⁺¹⁹, AJG13, AMNU16, AJ15, BBC⁺¹³, BJ15, BAY⁺¹⁴, BCF⁺¹⁷, BCRW15, CDW⁺¹⁶, CMS17, DTKMK15, EM13, FLPL13, GRT⁺¹⁴, GVS⁺¹⁰, HGD14, HKS⁺¹⁵, JSK⁺¹⁵, JLR⁺¹⁷, KIH⁺¹⁵, KFJ13, KGL⁺¹⁶, KZR⁺¹⁶, KZR⁺¹⁹, LKT17, LHS19, MKLKP16, NXL⁺¹⁸, OBI12, PHB⁺¹⁰, RKL14, RVvdP⁺¹⁷, SS16, SPSG14, SSS⁺¹⁶, SKV⁺¹⁹, SAPI14, SPO⁺¹⁸, SMA15, UVGS10, VLWV14, WCB⁺¹⁰]. **ice-break** [SS16]. **ice-covered** [CDW⁺¹⁶, CMS17, DTKMK15, FLPL13, HGD14, JLR⁺¹⁷, MKLKP16, RKL14, SSS⁺¹⁶, SPO⁺¹⁸, SMA15, WCB⁺¹⁰]. **ice-free** [NXL⁺¹⁸, WCB⁺¹⁰]. **ice-out** [AJG13, BJ15]. **ice-walled** [SMA15]. **Iceland** [MAC⁺¹⁰, PCY⁺¹⁰]. **Identification** [FAF⁺¹², HMF16, HZC⁺¹³, HNL⁺¹³]. **identified** [HML⁺¹⁴]. **identifies** [SKV⁺¹⁹]. **Identifying** [BAY⁺¹⁴]. **identity** [HSTK15]. **II** [RRB⁺¹⁶]. **III** [JBT11]. **ike** [NUH⁺¹²]. **Illinois** [CF10]. **Illuminated** [SSC⁺¹⁰, MBB⁺¹⁸]. **imagery** [LAM12, WSTD10]. **imaging** [AJC15, HSLH⁺¹⁴, JTG⁺¹¹, PFJ10]. **imbalance** [GHS14, LTPA17]. **Imberger** [PHJ12]. **immersion** [BMD17]. **immune** [PDP⁺¹⁰]. **Impact** [BHS⁺¹⁶, HVJ⁺¹⁹, HVD⁺¹⁸, MSAM18, SYW18, YAC⁺¹⁹, AGML18, AA18, BCDR⁺¹⁹, CHH⁺¹⁷, HEB⁺¹⁹, JCS⁺¹⁸, LYH17, PRS⁺¹⁸, PLS⁺¹⁶, RETS16, SBC⁺¹⁷, SBB⁺¹⁸, Tho19, WTC⁺¹⁷, vdHHC⁺¹⁹]. **impacted** [KGRV18, SDS⁺¹⁶]. **Impacts** [SPP⁺¹⁶, TNI19, HQB⁺¹⁸, KBHT19, MPSA17, PS17, SFS⁺¹⁶, SSFR19, WLO⁺¹⁹]. **impairs** [HNZ⁺¹⁶]. **Implication** [DVC⁺¹⁷]. **Implications** [AP12, BHW⁺¹², BMM⁺¹³, BOT⁺¹⁵, BIS⁺¹⁰, BDC⁺¹⁴, BBS12, BBQ⁺¹⁰, CZB⁺¹⁸, CUW11, CHPH13, CSME13, DBV⁺¹¹, EM13, GDD⁺¹⁶, KKH11, KTS⁺¹⁴, KPJ12, LCS⁺¹⁹, LPLH18, MTU18, MMB17, MWBS18, NCT⁺¹⁵, PE16a, PHPH⁺¹⁶, RASD10, RHV⁺¹³, SMF10, SAS⁺¹¹, SIW⁺¹¹, SLBH⁺¹⁹, SS12a, SSB⁺¹⁶, SH11, WRB⁺¹⁹, WMC⁺¹⁵, ZKMT⁺¹³, ZTW⁺¹¹, AMMH⁺¹³, BLWV10, CEES14, CA08, ESMS13, FZL⁺¹⁴, GWD⁺¹⁶, HL13, HST⁺¹⁴, HLJ12, Hir12, JGR⁺¹⁴, LK14, MAC⁺¹⁰, MRSS12, MBP⁺¹⁷, MAFCD⁺¹⁸, MSR16, RBD18, SBT⁺¹⁹, SH10a, SCL⁺¹⁹, SSN12, TCFP19, VPC10, WC17]. **Importance** [EMS16, JC14, MCGF⁺¹¹, WM12, BBT⁺¹⁰, BSG14, BDS11, GRRR⁺¹⁷, GVS⁺¹⁰, JW14, KGL⁺¹⁶, KBE⁺¹⁷, LBC⁺¹⁸, MDB19, MAS⁺¹⁶, OALD10, SSU⁺¹⁶, SKK⁺¹³, SSYT14, VMI13, vOSH12]. **Important** [CSJ⁺¹⁴, AHH⁺¹⁶, GCH⁺¹⁸, GYP⁺¹⁸, KSFT13, LRS⁺¹⁰, PSD⁺¹⁷, TSB⁺¹⁹,

WKG⁺¹⁶, ZXM⁺¹¹]. **imposed** [JD16]. **imprint** [PJUR15]. **improper** [Lat14]. **Improved** [LRG16, MD10, ZWA⁺¹⁴]. **improves** [WS18]. **Improving** [KTH⁺¹⁹]. **IMS101** [BWB⁺¹⁰, WKB⁺¹⁰]. **in-lake** [SBvH⁺¹⁵]. **in-stream** [CRCGG⁺¹⁷]. **inactivation** [HBD⁺¹¹]. **incidence** [MWS10]. **Inconsequential** [RKWH18]. **Inconsistency** [PWWF18]. **Incorporation** [LWrDM⁺¹², GBS17]. **Increase** [HBB⁺¹¹, APB⁺¹⁷, ETI⁺¹⁶, GMBL16, JTV⁺¹⁶, KRB⁺¹⁸, KRR16, MSS⁺¹⁸, NFRU11, OPA⁺¹⁴, ZCK⁺¹⁶].

Increased
[BRS⁺¹³, BLS⁺¹⁶, CCV⁺¹⁸, DIC⁺¹⁸, HST⁺¹⁴, HBD⁺¹¹, KGRV18, KBVW12, WBB⁺¹⁷, KJG10, LRG16, PSG⁺¹⁶, VMF⁺¹¹, WHH⁺¹¹].

increases [CF13b, CF14, GBK⁺¹⁸, KSP⁺¹², NWT⁺¹⁹, SMLC⁺¹⁸, SBF17]. **increasing** [BR17, CESC13, KK13, MMGO^{+17a}, SKV⁺¹⁹, WCS⁺¹⁸, WE19, WdBJF16, WSUC⁺¹⁸]. **incubations** [CESC14]. **independent** [MBC⁺¹⁶]. **index** [SGG⁺¹¹]. **India** [MGW⁺¹³]. **Indian** [MLS⁺¹⁸, RBCS16, WBG⁺¹⁶]. **indicate** [SVS⁺¹⁹]. **indicated** [CF10]. **indicates** [BCF⁺¹⁷, JTG⁺¹¹, SGG⁺¹¹, WTC⁺¹⁷]. **indications** [MdBKL13]. **indicators** [BISZ17, FC11, VHR⁺¹¹, WLV18, WDH⁺¹⁷]. **indices** [IBPG17, LEK⁺¹⁸, Tho19]. **Indirect** [BH13, HC10, SBA⁺¹¹]. **Individual** [BPW⁺¹⁹, BSH16, HMF16, KTRK11, PE13, WAB⁺¹⁷]. **Individual-based** [BPW⁺¹⁹]. **Indonesia** [KCM⁺¹⁰, OBL⁺¹⁹]. **induce** [PSNE15]. **induced** [BTJ⁺¹², BBR12, DHZ⁺¹⁹, DHK11, EKS⁺¹⁸, GLS⁺¹³, GRT⁺¹⁴, HS11, HBB⁺¹¹, HFP10, HNZ⁺¹⁶, HCL⁺¹⁸, IGP⁺¹², KWGN⁺¹⁰, KvdPVB13, LN11, LG10, MGS12, MTW12, MSR16, NRL15, RM14, Rie15, RG19, RCV⁺¹⁴, SGH12, SLK⁺¹⁰, SHKU11, SFWP12, SMC⁺¹⁰, SW11, TAE⁺¹⁸, TK12, THA17, VPWW10, XDC⁺¹⁹]. **inducers** [KS16]. **inducible** [KS13]. **Induction** [GGB^{+19a}, KM10, SBDS⁺¹⁵]. **inedible** [FWvD⁺¹⁸]. **inermis** [CTA⁺¹⁹, MEM⁺¹⁷]. **inertial** [Aus13, CTH15, VBBR15]. **infaunal** [CH11, HHA18, SPP⁺¹⁶]. **infection** [PS13, ŠSP17, USB⁺¹⁰]. **infective** [RBRH10]. **infer** [CJC⁺¹², LGR⁺¹²]. **inferences** [SL10b]. **inferred** [ALL^{+10a}, BBB⁺¹⁷, CPHD15, FSBT16, FDS⁺¹⁸, LLW⁺¹⁸, VdSLC⁺¹⁶, WLHW13]. **Inferring** [HCK14, TBSL17]. **infiltration** [BRF⁺¹⁷]. **Inflow** [LACI10, BGB⁺¹⁴, SFMF15]. **inflows** [LDL⁺¹⁹]. **Influence** [CWF11, CFB14, CSU13, DM17, FDS⁺¹⁸, GCSO14, KWGS18, LG10, MGW⁺¹³, RAV⁺¹⁷, RPL16, SBDS⁺¹⁵, VLDM19, VML⁺¹⁹, VBG⁺¹³, All10b, AAC⁺¹⁹, BSRP⁺¹², BGP⁺¹⁵, CF13a, DTPP12, DSM⁺¹⁸, DMB⁺¹², HDK⁺¹², HJMD13, HHS⁺¹⁸, HBBM19, HLH13, KCH⁺¹², KGvdH16, LRG16, MMH⁺¹⁸, MAD⁺¹⁵, MMD15, NSG⁺¹⁶, RPI⁺¹², RDC⁺¹⁹, RMK⁺¹⁶, SLA⁺¹⁵, SFB12, SvKP⁺¹⁸, SMC⁺¹⁰, SS19, WCB⁺¹⁰, WCJ⁺¹⁷, WCC⁺¹⁷, WHD10, WFR10, WDL⁺¹⁷, YJO⁺¹⁹]. **influenced** [BJF18, FB12, HHHT19, KMF10, MACM11, MKG⁺¹⁵, NLHAA⁺¹⁷, PGRR⁺¹⁹, SVLS⁺¹⁶]. **influences** [BSM17, BHM⁺¹⁷, DBC⁺¹³, HCF⁺¹⁰, HMFF12, LJJ⁺¹⁸, LS14, MMHT10, NEH⁺¹⁹, SRM⁺¹⁸, TZD⁺¹⁵]. **influencing** [BBQ⁺¹⁰, LHS19, SDCF16, TBSL17]. **Information** [Ano17g, Ano17h, Ano17i, Ano17j, Ano17k, Ano17a, Ano17b, Ano17c, Ano17d,

Ano17e, Ano17f, Ano18h, Ano18i, Ano18j, Ano18k, Ano18c, Ano18d, Ano18e, Ano18f, Ano18g, Ano19d, Ano19e, Ano19f, Ano19g, Ano19h, Ano19i, Ano19j, Ano19k, Ano19l, Ano19m, Ano19o, Ano19n, Ano19p, Ano19q, Ano19r, Ano19s, Ano19t, CESC19, GBB^{+19c}, KSTA18b, LF17a, SHT⁺¹⁸, ZXZ17a, KFP⁺¹⁸. **infragravity** [MP17]. **infrared** [KDGL19, LAM12, RDT⁺¹⁴, SW14]. **infrastructure** [RWM⁺¹⁹]. **ingestion** [GOD⁺¹⁸]. **inherent** [LLH⁺¹⁵, SCQ⁺¹⁷]. **inhibit** [KG18]. **inhibited** [PKWS19]. **inhibition** [HS18, LCS⁺¹⁹, MTW12, SNM⁺¹⁵]. **initiation** [WXF⁺¹⁵]. **inland** [LFGK10, LRG16, MRH⁺¹⁵, SOH⁺¹⁸, SL10a]. **Inlet** [CHHT18]. **inlets** [FEW⁺¹⁴]. **innate** [PDP⁺¹⁰]. **inner** [GFDC11, WS13]. **Inorganic** [CMM⁺¹¹, MMC⁺¹⁰, TFH17, WDCH18, vdHHC⁺¹⁹, DTPP12, ETI⁺¹⁶, FLP⁺¹⁰, HLG15, HTLM18, LCH⁺¹⁴, LZC⁺¹⁴, MSGS⁺¹³, OALD10, RvSM17, SKLG10, SCR⁺¹², STC⁺¹¹, WWC⁺¹³, WLG⁺¹⁶, WKG⁺¹⁶]. **inornata** [CRB⁺¹⁷]. **input** [CBF10, DvOR⁺¹⁶, LV16, SCAB⁺¹⁶]. **inputs** [AC15, BBJ⁺¹⁹, HGvB⁺¹³, KWRS13, KSG⁺¹⁰, NLO⁺¹², PSH⁺¹¹, TWP13, XPQ⁺¹⁰]. **inshore** [CBS⁺¹⁷, dGCB⁺¹¹]. **inshore-offshore** [dGCB⁺¹¹]. **insight** [LGW⁺¹⁹, MD10, WS18, WCB⁺¹⁰]. **Insights** [BRS18, BMD17, CFAE⁺¹⁵, CBS⁺¹⁷, DIC⁺¹⁸, DDF⁺¹⁰, HS18, IBPG17, KWB⁺¹⁶, LLW⁺¹⁸, MGHS18, MH16, MBLD15, OWS⁺¹⁷, PE13, RMDK10, RDZ⁺¹³, SKK⁺¹⁵, WWC⁺¹³, WSM⁺¹⁹, ÁSNCA⁺¹³, KPP⁺¹⁸, SLC⁺¹⁶, TCFP19, ZMWM11]. **Instabilities** [RGM15]. **instability** [Sch19]. **Instantaneous** [TT14]. **Instr** [Ano17g, Ano17h, Ano17i, Ano17j, Ano17k, Ano18h, Ano18i, Ano18j, Ano18k, Ano19j, Ano19k, Ano19l, Ano19m, CESC19, GBB^{+19c}, KSTA18b, LF17a, SHT⁺¹⁸, ZXZ17a]. **insufficient** [HBD⁺¹¹]. **insularity** [LV16]. **intact** [BHS⁺¹⁶, BHB⁺¹², GKS12]. **integrated** [SMM11, WXF⁺¹⁵]. **Integrating** [WFB⁺¹¹, Ano19c, GBB⁺¹⁸]. **Integration** [KDGL19, SBM⁺¹⁵]. **intense** [PKWS19, VLMTEW11, YH17]. **intensification** [JHLK⁺¹⁹]. **Intensity** [BSM17, LKLH10, ZBSR15]. **Intensive** [GML⁺¹²]. **Inter** [CB19, GGPM⁺¹⁰, GMD11, BCM⁺¹⁷, RPL16, Scu16]. **Inter-annual** [CB19, GGPM⁺¹⁰, GMD11, RPL16, Scu16]. **inter-specific** [BCM⁺¹⁷]. **Interaction** [PvEF12, RDZ⁺¹³, CHL⁺¹⁷, DBSP⁺¹⁶, ETKL16, RCIB14, TBSR13]. **Interactions** [HAC⁺¹¹, MCWB10, BBT⁺¹⁰, BSSR10, BRT⁺¹⁰, CEB⁺¹⁷, CdC⁺¹¹, FT11, HHW⁺¹⁹, HMD11, HJMD13, LEG⁺¹⁰, LS14, MTM⁺¹⁶, MMWR17, QFH18, RKLH11, RSJ⁺¹⁸, STB⁺¹⁶, SD10, SHF⁺¹², ŠSP17, TDM⁺¹³, VCPC⁺¹⁶, WGDA19, WRO⁺¹¹, XFH14]. **Interactive** [CL10, CRS⁺¹⁷, LJ18, LTX⁺¹⁷, PSD⁺¹⁷, SLH⁺¹⁵, SH11, GLMG15, PSNE15]. **interactively** [MVNG11, WZBW⁺¹¹]. **Interannual** [MDB19, RVvdP⁺¹⁷, SPSG14, BAG⁺¹⁷, CB12, DDF⁺¹⁰, KTK⁺¹³, PMP⁺¹², PMPD13, RKBA14, XDC⁺¹⁹, ZSM14]. **interception** [CHS⁺¹⁸]. **interface** [BKD⁺¹⁶, CDW⁺¹⁶, GLI⁺¹⁵, HT17a, LG16, RWB⁺¹⁹, SLK⁺¹⁴, SWD11, WCG⁺¹⁷]. **interflow** [HMHI13]. **interior** [UFW⁺¹⁸]. **intermediate** [ÁSNCA⁺¹³]. **Intermittent** [KHG⁺¹³, dCGS19]. **Internal** [DB13, PPL10, RDC⁺¹⁹, SWL11, SSN12, WKS13, ABS⁺¹⁹, BK13, CTH15,

DHH15, GJR⁺¹⁹, NI10, NRL15, PMRRA19, SI10, SSYT14, VPMrI12, VMMS⁺¹³, VMI13, VMCM⁺¹⁷, vH19, LWS⁺¹⁷. **internalization** [SMLC⁺¹⁸]. **Interplay** [uGH⁺¹¹, LFGK10, OIS10, PHJ12, RPG13]. **Interpolating** [LC12]. **interpret** [SHK13]. **interpretation** [BLG⁺¹⁵, SSC⁺¹⁷]. **interreplacement** [BMM⁺¹³]. **Interspecies** [TW10a]. **Intertidal** [BRM⁺¹⁹, CTG15, VPG⁺¹⁹, WKG⁺¹⁶, ALG⁺¹³, BHV⁺¹⁷, BGP⁺¹⁵, DPG⁺¹², FEW⁺¹⁴, GML⁺¹², GSPM13, JD16, MBH⁺¹⁵, MMPSB14, MPvBS⁺¹⁸, PPPA14, PLS⁺¹⁶, RWC16, SWE⁺¹⁸, TMK⁺¹³]. **intra** [MGJH18]. **intra-annual** [MGJH18]. **intracellular** [BRS⁺¹³]. **Intraspecific** [Hir12, SWP11, WHR18]. **intrathermocline** [Lee18]. **Intrinsic** [PGP⁺¹⁴]. **introduced** [CBP10]. **introduction** [FSBT16]. **intrusions** [PVLMT⁺¹⁶]. **intrusions** [LACI10]. **invaded** [PCPZ18]. **Invasion** [SOM⁺¹⁵, BBS12, GGC⁺¹⁴, LFH⁺¹², MGL⁺¹³, OBM⁺¹¹, PWWF18, TB18, TMH⁺¹⁸]. **invasions** [BBCM⁺¹³, DBRB⁺¹⁵]. **Invasive** [WL17, BBB⁺¹⁷, HJT^{+13a}, HJT^{+13b}, HSR15, JTH⁺¹¹, KKB⁺¹⁸, MMB17, PSS⁺¹⁴, RSTS⁺¹⁸, RAV⁺¹⁷, SBA⁺¹¹, TB18, WL18]. **inventories** [LWE⁺¹¹]. **Inventory** [KZR⁺¹⁶]. **inverse** [SL10b]. **invertebrate** [JC14, KM10, KPP⁺¹⁸, MWS10, VMC⁺¹³, WL17, WGJ⁺¹⁹]. **invertebrate-chemoautotroph** [MWS10]. **Invertebrates** [BBM11, BSM17, BSRP⁺¹², HLGA17, MKBSK19, MSK⁺¹⁷, PWWF18, PMA18]. **investigate** [KDGL19]. **investigated** [KGM14]. **Investigating** [DvOR⁺¹⁶, TB18]. **investigation** [CLB19, FJBP15, JAD⁺¹³, SS12b, SS12c]. **investments** [BAB⁺¹⁶]. **invisibility** [GRDPL14]. **invisible** [PFJ10]. **ion** [FNSS15, MMH⁺¹⁸, SES18]. **Ircinia** [ASR⁺¹⁷]. **Irene** [CWHP14]. **Iron** [CEB⁺¹⁷, CMS⁺¹⁸, LBHS13, MVL⁺¹⁰, OSB⁺¹⁵, RETS16, STB⁺¹⁶, SHF⁺¹², VGM14, WDMF13, ATP⁺¹⁵, BS18a, BTC⁺¹⁹, BIS⁺¹⁰, BRS⁺¹³, BG10b, BBB⁺¹⁴, CFD⁺¹¹, CBF11, CWF11, CFB14, CJ17, DMB⁺¹², EBMR12, FDS⁺¹⁴, FDBW16, IHSS⁺¹⁹, JTG⁺¹¹, JLR⁺¹⁷, KWM⁺¹⁹, KBHT19, LJ18, MBH⁺¹⁵, MBC⁺¹⁸, MEM⁺¹⁷, MVG⁺¹⁵, NO17, NLO⁺¹², NHS⁺¹², àNTS13, NSV⁺¹⁴, OCLW11, PK14, RNK⁺¹⁶, RLC⁺¹¹, RLSC⁺¹³, RLL⁺¹⁰, RKMN⁺¹³, SDSC12, SAS⁺¹¹, SIW⁺¹¹, SAP⁺¹¹, SMH⁺¹¹, SH11, TSC⁺¹⁹, TNMV⁺¹⁰, WHH⁺¹¹, WGRS⁺¹⁷, XSAHV13, XFH14, JBT11]. **iron-binding** [BBB⁺¹⁴]. **Iron-dependent** [RETS16]. **iron-fertilized** [JTG⁺¹¹]. **Iron-light** [SHF⁺¹²]. **iron-limited** [BRS⁺¹³, DMB⁺¹², FDBW16, STB⁺¹⁶]. **iron-mediated** [SAP⁺¹¹]. **Iron-poor** [OSB⁺¹⁵]. **iron-rich** [àNTS13, RLC⁺¹¹]. **irradiance** [ASA⁺¹⁸, BPRG⁺¹⁸, GRGL⁺¹³, HSLH⁺¹⁴, KvdPVB13, SLS⁺¹¹, SSPK⁺¹², THFG16, WHD10, XFH14]. **Iseo** [VPMrI12, VMI13, HMHI13]. **Island** [GLMG15, GBT⁺¹⁷, RPMK17, SWD⁺¹⁴, VW17, DCRC16, WHD10]. **islandica** [MWC⁺¹⁶]. **Islands** [KH16, KKH11, BAA⁺¹³, CHH⁺¹⁷, ELJ⁺¹⁶, UIY⁺¹¹, VML⁺¹⁹]. **Islet** [YWY⁺¹⁵]. **isolate** [HLG15]. **isolated** [FYT⁺¹², GJR⁺¹⁹]. **isolates** [CEB⁺¹⁷]. **Isolating** [WHAM15]. **isolation** [MXWC11]. **Isopora** [YLH⁺¹⁶]. **isoprene** [ESMS13]. **isoprenoid** [BAY⁺¹⁴]. **isoscape** [WRB⁺¹⁹]. **Isotope**

[DT16, OCR10, AHD⁺¹⁸, BJDMH10, BSCG17, BGB⁺¹⁴, BTH⁺¹⁶, CS12, CKCEP10, CCC10, CBF10, DTM18, EWB12, EED10, FC11, GLS⁺¹³, GMMV19, GCH⁺¹⁸, GRE⁺¹⁶, GVS⁺¹⁰, HPCD13, HHM⁺¹⁸, HOD⁺¹⁷, JSB⁺¹⁴, KGL⁺¹⁶, KWB⁺¹⁶, LRM17, MZH15, MD15, OLC18, SES18, SMG12, TG17, VTH⁺¹⁸, WYL16, WFK⁺¹⁶, WGCC14, ZLLM10]. **isotopes** [CPPdAR⁺¹³, CFD⁺¹¹, CSGW18, FDS⁺¹⁸, KBA⁺¹², KLM⁺¹⁷, LKLH10, MTEM15, MBLD15, MQJG13, RS16, RHV⁺¹³, SSYT14, TMO⁺¹⁸, VHR⁺¹¹, WLHW13, KBA⁺¹⁴]. **Isotopic** [CFRL10, GRDPL14, Ano10, Ano21c, BWBB15, BC10, BSMC12, CFD15, CMB10, CPHD15, HSC⁺¹¹, KFP⁺¹⁸, MC16, MGW⁺¹³, NCT⁺¹⁵, RPMK17, RSTP12, SBvH⁺¹⁵, SRAB10, SRA10, TFLS14, WM12, WRWPG19, WSB⁺¹³, ZMWM11, WKAM⁺¹⁹]. **isotopomer** [WFK⁺¹⁶]. **Israel** [AES11]. **Issue** [Ano17g, Ano17h, Ano17i, Ano17j, Ano17k, Ano17a, Ano17b, Ano17c, Ano17d, Ano17e, Ano17f, Ano18h, Ano18i, Ano18j, Ano18k, Ano18c, Ano18d, Ano18e, Ano18f, Ano18g, Ano19d, Ano19e, Ano19f, Ano19g, Ano19i, Ano19j, Ano19k, Ano19l, Ano19m, Ano19o, Ano19n, Ano19p, Ano19q, Ano19r, Ano19s, Ano19t, CESC19, GBB^{+19c}, KSTA18b, LF17a, SHT⁺¹⁸, ZXZ17a]. **Italy** [VPMrI12, VMI13].

J [ACD10, PHJ12]. **Janeiro** [CKB⁺¹⁶, NEH⁺¹⁹]. **January** [SWD⁺¹⁴].

Japan

[KK13, KJKS18, MTU18, NUH⁺¹², SOM⁺¹⁵, SSYT14, TNI19, THH⁺¹³].

Japanese [UIY⁺¹¹]. **Jelly** [LdJMS⁺¹³, LPO⁺¹¹]. **Jellyfish**

[SCP⁺¹⁶, DJS18, KTRK11]. **Jersey** [CMW⁺¹⁹]. **Jet** [NA17]. **joint**

[DMSHC16]. **jointly** [LdISB⁺¹²]. **July** [PCY⁺¹⁰]. **Jumping** [JJ17]. **jumps** [DB13]. **Junk** [MDB16]. **juvenile** [CH11, HCD19, TIN⁺¹⁴, VdSLC⁺¹⁶].

Kāneʻohe [PCD⁺¹⁹]. **Kaiser** [Ano21b]. **Karenia** [HST⁺¹⁴]. **Karlsson** [ACC⁺¹⁹]. **karst** [HC12, YMB⁺¹⁸]. **Kelp** [FGBS⁺¹⁸, uGH⁺¹¹, BRNS18, CDA16, DPM18, HRN11, LCS⁺¹⁹, LWS⁺¹⁷, MRB11, MP17, PMLC⁺¹⁰, RPMK17, RCH⁺¹⁵, RMDK10, RDZ⁺¹³, dBWL⁺¹³]. **kelp-derived** [RPMK17]. **Kenya** [WKJS⁺¹⁴]. **Kenya/Tanzania** [WKJS⁺¹⁴]. **Key** [SSS⁺¹⁹, ARB⁺¹⁹, BPL^{+19b}, ITO⁺¹⁷, KTK⁺¹³, LTH⁺¹², PJFJ⁺¹⁵, SCG⁺¹⁹]. **Keys** [MBLP11]. **keystone** [PvEF12]. **kill** [PS13]. **Killer** [SLG10]. **killifish** [HHA18]. **kilometer** [HHS⁺¹⁸]. **kindtii** [MXWC11, VMC⁺¹³]. **kinetic** [KBVW12, LBR⁺¹²]. **Kinetics** [RSM13, BKD⁺¹⁶, CLLH14, LALGM18, MEM⁺¹⁷, WLR17, SFWP12]. **King** [SWD⁺¹⁴]. **Kinneret** [AES11]. **Kivu** [MRC⁺¹⁶, RDB⁺¹⁸, SBe10, SSW19]. **know** [BB10]. **knows** [LVDM19]. **Kobbefjord** [MGS12]. **Kona** [KSG⁺¹⁰]. **Kongsfjorden** [DHG⁺¹⁷, KvdPB18]. **Korea** [LKLH10]. **Krill** [KYRMD18, KK11, BPW⁺¹⁹, CTA⁺¹⁹, MPM⁺¹⁵, RNK⁺¹⁶, RK13, RHDTs⁺¹¹, SAS⁺¹¹, SAPI14, TT14, TGGZS⁺¹⁰].

L. [MZH15, MMBP18]. **lab** [GRRA⁺¹⁷]. **labeling**

[DTM18, OEMB10, OEM12, ORGE16, OLC18, ZLLM10, dKYH⁺12]. **labile** [DBA16, HT17a, WM12, vOSH12]. **lability** [CK12, CK13]. **laboratory** [BC19, CESC14, DBA16, ESMS13, RMDK10, RDZ⁺13, ZWA⁺14]. **Lack** [GWB⁺14]. **lacustrine** [DML17, PE17, SCF⁺15]. **Lagoon** [TDF⁺17, CHL10, CSD10, IR16, KKHP14, RGG⁺10, SWZ⁺15, SLC18, SGA⁺17, TvBR⁺19]. **lagoonal** [CAS⁺17]. **lagoons** [NEH⁺19, dIFN10]. **Lagrangian** [CLB19, KCB⁺17]. **lagunensis** [KG18]. **Lake** [AMQ⁺11, BPL⁺19a, CR11, CF10, EMH12, EP14, GNHGM13, HHM⁺18, KHTO13, LVDM19, NLX⁺18, OrIA10, PHJ12, PE16b, SM11b, SBK18, VHM⁺10, WSTD10, AJG13, Aus19, BCC⁺12, BL13, BK13, BPRG⁺18, BNW⁺14a, BBR12, BVvB⁺19, BGB⁺14, BKA⁺14, BCRW15, BCVAⁿ10, BSSW11, CDW⁺16, CT18a, CKP⁺15, CKD⁺16, CJHR19, CPOMA15, CGT16, CCC10, CMS17, CJWS15, DKG15, DFK⁺17, DB13, DHZ⁺19, EKS⁺18, EWB12, FBV11, FSCB11, FVSL19, FLPL13, GTPB⁺11, GDCM13, GPH⁺13, GKS12, GSBR11, GBP⁺12, HHE⁺19, HBR⁺14, HGD14, HNHS⁺15, HPS10b, HSR15, HPL11, HKU⁺10, IH18, JAD⁺13, JTV⁺16, JLR⁺17, KKB⁺18, KBA⁺12, KWRS13, KBJ⁺18, KKP⁺19, KFP⁺18, KBM⁺14, KBE⁺17, KHP18, LACI10, LRM17, LG16, LH19, LSHK11, LC12, MSSH12, MMGP⁺12, MHRH11, MGL⁺16, MRSS12, MAF19, MKK15, MRC⁺16, MKLK16, NSG⁺16, NAH⁺11, àNTS13]. **lake** [NWT⁺19, OBT⁺11, OY10, OMB⁺16, OBI12, PCJK13, PCW19, PDER10, PHL⁺18, PSB⁺16, PPL10, PMRRA19, PS17, RMF11, RSJ⁺18, RGO⁺11, SMM11, SNM11, SFS⁺16, SPP10, SPFP11, SS16, SPSG14, SJB⁺19, SFMF15, SBvH⁺15, SOM17, SSB⁺18, SK19, SI10, SWL11, SLP15, SBS⁺13, SWD11, SMG12, SKKV11, SBB⁺18, SPO⁺18, SCBR12, SCL⁺19, SPG⁺11, SSYT14, TGC⁺10, TMF⁺14, TAE⁺18, THH⁺13, TTV⁺13, TST⁺19, TMO⁺18, UCOG16, UIY⁺11, VLDM19, VPMrI12, VBBR17, VTH⁺18, VSP⁺11, VHR⁺11, VMMS⁺13, VCPC⁺16, VMI13, WS18, WKSR13, WL17, WCM19, WYL16, WBZ⁺13, WFK⁺16, WCJ16, WSUC⁺18, WCCP14, WRH⁺17, WKJS⁺14, XXZ⁺19, ZOB⁺15, ZPK⁺12, ZCK⁺16, dKNL⁺15, AES11, AMB⁺11, AA11, Aus13, BVC⁺14, BNW⁺14b, BRT⁺10, BS18b, BLS⁺16, BSSW11, CCK⁺12, CLB19, CCC10, CSU13, CMK⁺10, GTPB⁺11, HMHI13, JABZ19, JHLK⁺19, JW14, KCM⁺10]. **Lake** [KIH⁺15, KYG⁺12, KWB⁺16, LEK⁺18, LCM⁺12, LK14, LZK18, LG16, MQP⁺16, MRSE14, MWBM19, MMGP⁺12, MGW⁺13, MRC⁺16, NUH⁺12, NHP17, OWS⁺17, PRS⁺18, PSH⁺11, PE13, PDER10, PHL⁺18, PFH⁺17, QHVM18, RDB⁺18, RMNZ12, RAV⁺17, RPH⁺10, SSS⁺16, SLK⁺10, SBe10, SSW19, SMA15, SSYT14, TGC⁺10, TCG⁺17, THH⁺13, TA14, TSDF⁺16, VPMrI12, VBBR15, VLWV14, VAH11, VHR10, VMI13, WP14, WZG⁺14, WBS⁺10, WKJS⁺14, WMI⁺17, XXZ⁺19, XPQ⁺10, YAC⁺19, ZWL⁺14, ZMWM11, dKYH⁺12]. **Lake-size** [KHTO13]. **lake-water** [VHR⁺11]. **lake-watershed** [JLR⁺17]. **Lakes** [WBZ⁺14, APS⁺19, ACD10, ACW⁺18, Ano21a, AHD⁺18, AA18, BHC13, BHC14, BHS⁺16, BMF⁺16, BHB⁺19, BPGE13, BBC⁺13, BJ15, BBK⁺15, BL18, Bre14, BGB⁺14, BBQ⁺10, BLWV10, BSY⁺16, CA08, CTH15, CJHR19, CKCEP10, CR10, DKG15, DBSP⁺16, DMMV15, DB11,

DTKMK15, DKK⁺¹⁴, DMSHC16, FWS⁺¹⁴, FWO⁺¹⁸, FPD⁺¹⁰, FLP⁺¹⁰, FOT⁺¹⁵, FMP⁺¹³, GSG⁺¹⁷, GJWS14, GJWS16, HMO⁺¹⁸, HGdG⁺¹⁹, HS11, HATF17, HNL⁺¹³, HSTK15, HFP10, HML⁺¹⁴, JSH12, JLR⁺¹⁷, KHTO13, KBA⁺¹⁴, KKS10, KFJ13, KBT16, KHVS11, KMC⁺¹⁵, KZR⁺¹⁶, KZR⁺¹⁹, LBC⁺¹⁸, LPLH18, LZR⁺¹⁷, LCW^{+17b}, LS15, LHS19, MNW⁺¹⁹, MLD⁺¹⁶, MMN⁺¹⁰, MJJMM17, MRSS12, MLS⁺¹⁴, Meh10, MMH⁺¹⁸, MBE⁺¹³, MAD⁺¹⁵, MW15, MMFBB18, MSD⁺¹⁴, MMG16, OSC14, OSB⁺¹⁵, OWFS11, OSHS19, PSH⁺¹¹, PTS⁺¹⁹, PH15, PHG13, RR13, RKG⁺¹¹, RKWH18, RLB⁺¹⁰, RHV⁺¹³, RAKE05, RKL14]. **lakes** [SHSK14, SJM11, SNO⁺¹⁶, SBvH⁺¹⁵, SM10, SP11, SLP⁺¹⁴, SLA⁺¹⁵, SBK18, SPG⁺¹³, SH10a, SdlFdlF⁺¹⁰, SS12a, SDH⁺¹⁴, SBR⁺¹³, SS19, SSJR⁺¹⁰, SRAB10, SRA10, SSM⁺¹⁹, SHL⁺¹⁸, SSGL19, TLG⁺¹¹, TPM⁺¹⁴, UIY⁺¹¹, VSdG17, VP15b, VBC⁺¹², WWC⁺¹⁸, WMC⁺¹⁵, WXMS10, WCP⁺¹⁵, WVl⁺¹⁸, ZZY⁺¹⁰, ZHN⁺¹⁰, ZCL⁺¹⁹, ZZW16, ZZAC13, ZHD⁺¹⁶, vEG10, BGW⁺¹⁵, BBM11, DC15, RSE⁺¹⁷, SSH⁺¹⁶, SOO⁺¹⁷, ZNVF16]. **laminae** [HMFB16]. **laminated** [TBK15]. **Land** [DCCB17, BSM17, GTR⁺¹³, Ker17, KSG⁺¹⁰, KGvdH16, LLH⁺¹⁵, LMR14, MHRH11, SLE10, TT12, WC17, WYW⁺¹⁰, WCG⁺¹⁷, YJO⁺¹⁹, YWY⁺¹⁵, ZTW⁺¹¹]. **land-based** [LMR14]. **Land-use** [DCCB17, KGvdH16, MHRH11]. **Landscape** [VZJ⁺¹⁷, BSRP⁺¹², FSCB11, FWO⁺¹⁸, FLM⁺¹⁹, FJBP15, KHTO13, Rie15, VCPC⁺¹⁶, WS18, WBZ⁺¹⁴]. **landscape-based** [WS18]. **landscape-scale** [BSRP⁺¹², FJBP15]. **landward** [KJKS18]. **Lanice** [BBR⁺¹⁴]. **Lanyu** [YWY⁺¹⁵]. **Large** [GMS⁺¹⁸, KPW⁺¹¹, SSH⁺¹⁴, SBKO18, WC17, WKK⁺¹¹, WHR18, YYMN13, APB⁺¹⁷, BPPF12, BBR12, BCRW15, BSSW11, CT18a, CTH15, Clo18, CHL10, CKB⁺¹⁶, FWO⁺¹⁸, FLM⁺¹⁹, GMD11, GK14, HDK⁺¹², HC12, HCK14, HSTK15, HCC⁺¹³, JAD⁺¹³, Ker17, LACI10, LL11, LBS17, MSSH12, MAB⁺¹⁷, MAF19, MWC⁺¹⁶, MSD⁺¹⁴, MRC⁺¹⁶, NAH⁺¹¹, OY10, PRL18, PPL10, QFH18, RBI⁺¹⁰, SCF⁺¹⁵, SFMF15, SBS⁺¹³, SVMT15, SSM⁺¹⁹, TGC⁺¹⁰, TCG⁺¹⁷, TB18, THH⁺¹³, TTV⁺¹³, VBBR17, VP15b, VAH11, WDL⁺¹⁷, YLJ11, ZXM⁺¹¹]. **Large-scale** [YYMN13, BPPF12, MWC⁺¹⁶, PRL18, RBI⁺¹⁰, SCF⁺¹⁵, TB18, VAH11, ZXM⁺¹¹]. **larger** [HAA⁺¹⁹, SHKU11, WCI⁺¹⁴]. **largest** [GTPB⁺¹¹, GKT⁺¹⁵, TSB⁺¹⁹, WXF⁺¹⁵, XXZ⁺¹⁹]. **larva** [JTH⁺¹¹]. **larvae** [FDP⁺¹⁸, FGBS⁺¹⁸, HCS11, IPGP10, LDCT11, MCT⁺¹⁴, RCV⁺¹⁴, RLPL14, SGA10, SWP11, SPSS10, WRB⁺¹⁹, WGJ⁺¹⁹, WMC⁺¹⁸, WHAM15]. **Larval** [MCT⁺¹⁴, MFL11, MFM⁺¹², BCDR⁺¹⁹, DDH⁺¹⁹, FRP⁺¹⁴, GBMG12, HNHS⁺¹⁵, HPS^{+10a}, HCS11, KPP⁺¹⁸, LRS⁺¹⁰, MF19, MSM⁺¹⁷, MS13, PRL18, RNG⁺¹³, RPL16, SGG⁺¹¹, WJHS18, ZSZ12, ZPK⁺¹²]. **laser** [PFJ10]. **last** [JAD⁺¹³]. **Latasa** [Lan14]. **late** [HVJ⁺¹⁹, KYRMD18, MDB19, PCY⁺¹⁰]. **latitude** [LCBC16, MRKR⁺¹⁴, MGJH18, RKMN⁺¹³, WHD10]. **Latitudinal** [CNL⁺¹⁵, HP19, HLH13, LV16, MLS⁺¹⁸, MCGF⁺¹¹, SvKP⁺¹⁸]. **lato** [RSE⁺¹⁷]. **Lau** [SPB⁺¹⁴]. **Laurentian**

[BBM11, RSE⁺¹⁷, SOO⁺¹⁷, ZNVF16]. **law** [MD10]. **Lawrence**
 [BPW⁺¹⁹, FLM⁺¹⁹, HT17a, vdHHC⁺¹⁹, GdVT⁺¹¹, MPM⁺¹⁵]. **layer**
 [ANP⁺¹⁴, BNW^{+14a}, BBB⁺¹⁴, CT18a, DHH15, HWZ13, KT13, OIS10,
 PHJ12, SMLC⁺¹⁸, SNK12, SBNC⁺¹⁹, SWL11]. **layered** [SBNC⁺¹⁹]. **layers**
 [BBMS17, CHPH13, CFW⁺¹⁴, LBS17, SBBNM14, TWWY18]. **lead**
 [CSJ⁺¹⁴, MBC⁺¹⁸, SMLC⁺¹⁸]. **leads** [MHL⁺¹⁶, SHKU11]. **Leaf**
 [SCPE15, KLM⁺¹⁷, KOFN11]. **leaf-eating** [KLM⁺¹⁷]. **leakage** [BOT⁺¹⁵].
learn [SOM17, Sha10]. **lee** [MFL11]. **legacies** [PJUR15]. **legacy**
 [DKK⁺¹⁴, FVSL19, MHRH11]. **leidi**
 [CMG⁺¹⁵, HJT^{+13a}, HJT^{+13b}, JTH⁺¹¹, JCS⁺¹⁸]. **Length**
 [PH15, BTJ⁺¹², BPL^{+19b}, Hir12, SSGM18]. **Length-scale** [PH15]. **lens**
 [KZR⁺¹⁹]. **lens-like** [KZR⁺¹⁹]. **lentic** [HT17b]. **Leptodora**
 [MXWC11, VMC⁺¹³]. **lessen** [SMH⁺¹¹]. **Lessons** [PCW19]. **leucine**
 [HWZ13, dGCB⁺¹¹]. **Levant** [GHSR⁺¹⁶]. **level**
 [ETKL16, GTPB⁺¹¹, GGL⁺¹⁸, LAM12, LH19, LALGM18, LBB18, SJB⁺¹⁹,
 TG17, VCPC⁺¹⁶, WXMS10, XZC⁺¹⁶, YMB⁺¹⁸]. **levels**
 [BHW⁺¹², BB10, CFRL10, CUW11, HATF17, RHV⁺¹³, WA14, WHL⁺¹¹].
Liaohe [LYL⁺¹⁷]. **LiDAR** [KYG⁺¹²]. **Life** [JD16, BH16, BMDC10,
 DdD⁺¹⁰, GYP⁺¹⁸, LAM12, LJ18, RR12, TRA19, WRH⁺¹⁸]. **life-cycle**
 [GYP⁺¹⁸, RR12, WRH⁺¹⁸]. **ligands** [BBB⁺¹⁴]. **Light**
 [AJ15, BRT⁺¹⁰, BVvB⁺¹⁹, BS18b, ETKL15, KYG⁺¹², LWB⁺¹⁷, PvDM⁺¹³,
 PKB⁺¹⁷, ŠF19, AHH⁺¹⁶, BPB⁺¹⁷, BLH⁺¹³, BG10b, CUW11, ETKL16,
 EM13, EBMR12, GFH13, GSB⁺¹⁷, GBR14, HYK⁺¹⁵, HQB⁺¹⁸, HBZ12,
 JGR⁺¹⁴, KGRV18, KWGS18, LBC⁺¹⁸, Les19, LAC⁺¹⁹, MSS⁺¹⁸, MZH15,
 MVNG11, MU17, MBE⁺¹³, NWT⁺¹⁹, PE16b, PE17, RBD18, RR12,
 RNT⁺¹⁹, RDT⁺¹⁴, RAB⁺¹⁷, RGGL⁺¹², SLK⁺¹⁰, SKV⁺¹⁹, SCPE15,
 SYdTP⁺¹¹, SNK12, SLH⁺¹⁵, SBF18, SHF⁺¹², SH11, TBHM⁺¹³, WPL⁺¹⁴,
 XSAHV13, XLS⁺¹⁹, ZBSR15, ZD18, vEG10]. **light-dependency** [KWGS18].
lignin [BBS⁺¹⁸]. **like** [KMF10, KZR⁺¹⁹, TAV⁺¹⁰, UVGS10]. **Limfjorden**
 [JP10]. **limit** [SLS⁺¹¹, VP15b, uGH⁺¹¹]. **Limitation**
 [ASA⁺¹⁸, Alo17, BMBI12, BLMS17, BSA⁺¹⁶, CAQS16, CJ17, DHK11,
 FDS⁺¹⁴, GWSEA10, GBB19b, HST⁺¹⁴, Ho13, JJ17, KTK⁺¹³, KBHT19,
 LGV13, LAC⁺¹⁹, MEM⁺¹⁷, MdBK13, MVT⁺¹⁷, NCC14, PK14, PWF16,
 REDW10, SLK⁺¹⁰, SPHVA19, SIW⁺¹¹, SW11, SBH⁺¹¹, SMH⁺¹¹, SH11,
 TSC⁺¹⁹, THFG16, WHH⁺¹¹, WZC13]. **limitations** [LBHS13, VIS⁺¹³].
Limited
 [MFM⁺¹², BRS⁺¹³, CBF11, DMB⁺¹², FDBW16, GBL13, KvdPB18,
 MFK⁺¹³, MAB⁺¹⁷, NG13, PSG⁺¹⁶, STB⁺¹⁶, SSPK⁺¹², SVS⁺¹⁹, VTH⁺¹⁸].
Limiting [BB10, LC11, MCWB10]. **limits** [CG17, CJWS15, SL10a]. **Limnol**
 [Ano21b]. **limnological** [FVSL19, SLHA19, WCM19]. **Limnology**
 [Ano21a, SPO⁺¹⁸, Xen19]. **Lincoln** [RMJ⁺¹⁸]. **Line** [CHH⁺¹⁷]. **lineages**
 [Piw19]. **linear** [MA18]. **lined** [FYVU17]. **linkage** [XZC⁺¹⁶]. **linkages**
 [AGCA16, TKB18]. **Linked**
 [SSB⁺¹⁶, BWS10, BBJ⁺¹⁹, CBP12, FSBT16, SHSK14, SSFF12]. **Linking**

[LV16, MPM⁺¹⁵, MWC⁺¹⁶, SNM11]. **links** [BJ15, BKA⁺¹⁴, RG13]. **Lions** [GBMG12, KZB⁺¹⁰]. **Lipid** [JWGH19, BAY⁺¹⁴, KGL⁺¹⁶, LGV13, SGVR16, VGJ17]. **lipids** [BHS⁺¹⁶, BHB⁺¹², ZKMT⁺¹³]. **lithogenic** [DTPP12]. **litter** [KOFN11, MH16, MM11]. **little** [BBMS17, MTT17]. **Littoral** [HFP10, HMFF12, CMK⁺¹⁰, LBB18, WXMS10]. **Littoral-zone** [HMFF12]. **lived** [GPA⁺¹⁴, MS13, nVOH12]. **Living** [HPS10b, NBSMN19, TRA19, MVT⁺¹⁷, TCG⁺¹⁷]. **Ino.10504** [Ano21a]. **load** [SL10a]. **loaded** [NXL⁺¹⁸]. **loading** [ES13, GWN⁺¹², JSH12, KJG10, KHVS11, LMR14, SK19, ZSM14]. **loadings** [SSYT14]. **loads** [BSA⁺¹⁶, CBK18, LdlSB⁺¹², RAV⁺¹⁷, WTN⁺¹⁵]. **lobate** [CMG⁺¹⁵, JCS⁺¹⁸]. **lobster** [WRB⁺¹⁹]. **Local** [HSR15, MCT⁺¹⁴, HLH13, JPH⁺¹⁸, NA17, PBV16, SvKP⁺¹⁸, XZC⁺¹⁶]. **Locating** [TRD⁺¹⁴]. **location** [HZC⁺¹³]. **loch** [CBP12, HGvB⁺¹³]. **Lofoten** [WB19]. **Lombok** [OBL⁺¹⁹]. **Lonar** [MGW⁺¹³]. **Long** [APS⁺¹⁹, BGW⁺¹⁵, DC15, EP14, HSCM19, KMC⁺¹⁵, KHK⁺¹⁹, MKG⁺¹⁵, MSR16, PCW19, PJUR15, RG13, SK19, SSFR19, VKC18, VvO11, WVV⁺¹¹, WB19, Xen19, ZHN⁺¹⁰, AAIA14a, AAIA14b, BvBB⁺¹⁶, BMB⁺¹⁸, CJS⁺¹⁷, Clo19, DB13, GPA⁺¹⁴, LSDW18, LC12, MKBSK19, OEMB10, nVOH12, RWM⁺¹⁹, RKWH18, RGO⁺¹¹, RNT⁺¹⁹, RMNZ12, Sha10, TNI19, TCFP19, WCM19, ZWL⁺¹⁴, GLMG15, GBT⁺¹⁷, MKBSK19, VW17]. **long-distance** [BMB⁺¹⁸]. **long-lived** [GPA⁺¹⁴, nVOH12]. **long-standing** [LSDW18]. **long-studied** [Clo19]. **Long-term** [APS⁺¹⁹, DC15, EP14, HSCM19, KMC⁺¹⁵, KHK⁺¹⁹, MKG⁺¹⁵, MSR16, PCW19, PJUR15, RG13, SK19, SSFR19, VKC18, VvO11, WVV⁺¹¹, WB19, Xen19, ZHN⁺¹⁰, AAIA14a, AAIA14b, BvBB⁺¹⁶, CJS⁺¹⁷, LC12, MKBSK19, OEMB10, RWM⁺¹⁹, RKWH18, RGO⁺¹¹, RNT⁺¹⁹, RMNZ12, TNI19, TCFP19, WCM19, ZWL⁺¹⁴, MKBSK19]. **long-time** [Sha10]. **longevities** [HBACK10]. **longicornis** [SNTK15]. **longimanus** [BSBK13, BBB⁺¹⁷, BBS12, WL17, WLV18]. **longispina** [FSST11, PMP⁺¹², PTS12]. **longitudinal** [HCK14, PMP⁺¹⁷, SPFP11]. **loop** [BRS18, BKA⁺¹⁴, PD11]. **López** [CL11]. **Lophelia** [LGC13a, LGC13b, MKB⁺¹⁹]. **Lord** [WHD10]. **losing** [DBA16, SC10]. **loss** [CRJ⁺¹⁴, CBS⁺¹⁷, DIC⁺¹⁸, GFT⁺¹⁴, GML⁺¹², JLG11, KRB⁺¹⁸, KvdPVB13, MHL⁺¹⁶, OEMB10, SBB⁺¹⁸, TTTM⁺¹⁹, TT12, VdRA⁺¹⁹, WC17, WVL⁺¹⁸]. **losses** [VCPC⁺¹⁶]. **lotic** [FBFR13]. **Louisiana** [EBMR12]. **Low** [CGP⁺¹⁹, CJW⁺¹⁹, HWZ13, KvdPVB13, SLC18, ASSG12, Bre10, CT18a, CTG15, CT18b, CF10, GBD⁺¹⁰, HATF17, LL11, LFC17, MSS⁺¹⁸, MCYR17, MRH⁺¹⁵, OBNP⁺¹⁰, OSB⁺¹⁵, PMLC⁺¹⁰, PKWS19, SSS⁺¹⁹, WA14, WHD10]. **low-energy** [CT18a]. **low-frequency** [PMLC⁺¹⁰]. **low-molecular-weight** [LFC17]. **low-oxygen** [LL11]. **low-phosphorus** [OBNP⁺¹⁰]. **low-tide** [CTG15, CT18b]. **lower** [GCH⁺¹⁸, GPS15, HSB⁺¹³, LCZ⁺¹⁹, WD15, ZKMT⁺¹³, ZZW16, OPZ13]. **lowland** [SGA10, SWP11]. **LR** [DMS⁺¹⁸]. **lucius** [MF19]. **Lugano**

[BNW^{+14b}, WZG⁺¹⁴]. **Luminescence** [TLB⁺¹⁶]. **lunar** [HLFM⁺¹⁰, OMSC13]. **Lyapunov** [MPM⁺¹⁵]. **lysis** [CPF16, EB12, PD11]. **lysogenic** [PS13]. **lytic** [PS13].

M [ACD10, OMSC13, vH19]. **M.** [RF13]. **Mackenzie** [TLG⁺¹¹]. **macroaggregates** [SSL⁺¹²]. **macroalga** [ARB⁺¹⁹, GSPM13, PSD⁺¹⁷, RSTS⁺¹⁸]. **Macroalgae** [WCS⁺¹⁸, CHPH13, HAC⁺¹¹, HBM⁺¹⁵, MRB11, SKV⁺¹⁹]. **macroalgal** [BPV⁺¹⁹, HLH13, LCS⁺¹⁹, TDS⁺¹⁰]. **macrobenthic** [SBT⁺¹⁹]. **Macrocystis** [DPM18, MRB11, PMLC⁺¹⁰, RCH⁺¹⁵, RMDK10, RDZ⁺¹³]. **macrofauna** [TLR⁺¹³]. **macrofaunal** [RPB17]. **macroinvertebrate** [HT17b, KHH19, KGvdH16, WXMS10, WWS11, ZCL⁺¹⁹]. **macroinvertebrates** [Ano19c, GPCJ16, GBB⁺¹⁸]. **macronutrients** [MRE18]. **Macrophyte** [VCPC⁺¹⁶, GAM⁺¹⁹, SLK⁺¹⁰]. **macrophyte-derived** [GAM⁺¹⁹]. **Macrophytes** [dKNL⁺¹⁵, BSRP⁺¹², CLN⁺¹⁹, LBB18, VP15b, ZLLM10]. **macroscale** [SCL⁺¹⁹]. **macroscales** [WS18]. **macrotidal** [LDY⁺¹⁶]. **macrozooplankton** [KKS10]. **made** [SSB⁺¹⁶, WXF⁺¹⁵]. **Madeira** [BMF⁺¹⁶]. **maenas** [GGC⁺¹⁴, MCT⁺¹⁴]. **magna** [MCWB10, PDP⁺¹⁰, SW11, TYX⁺¹⁹]. **magnitude** [GTR⁺¹³, PKB⁺¹⁷]. **Magnitudes** [FLP⁺¹⁰]. **main** [AGCA16, JWS15]. **Maine** [BJ15, Les16, MTH⁺¹¹]. **Major** [MGGS18, ASSG12, CH11, CJ17, DKSA19, GMMV19, HLFM⁺¹⁰, MMPSB14, MMH⁺¹⁸, SAPI14, ŠGN⁺¹⁹, TDF⁺¹⁷, TNK⁺¹⁴, TZD⁺¹⁵, VSdG17, vBBM⁺¹⁹]. **major-ion** [MMH⁺¹⁸]. **make** [TDF⁺¹⁷]. **Malay** [TLB⁺¹⁶]. **man** [SSB⁺¹⁶]. **man-made** [SSB⁺¹⁶]. **management** [BDC⁺¹⁴, SM10, TCFP19, WZR19]. **manganese** [HS18, JLR⁺¹⁷, MBC⁺¹⁸, MdBKL13, NLO⁺¹², RSM13, TNMV⁺¹⁰]. **mangrove** [ARML10, CCW⁺¹⁹, KLM⁺¹⁷, MSGS⁺¹³, OCR10, OLC18, PCPZ18, RMH⁺¹⁷, SML⁺¹⁹]. **mangrove-dominated** [ARML10]. **mangroves** [Alo17]. **manipulation** [LEN⁺¹⁵, OVRJ13, PCJK13]. **maple** [MM11]. **Marezzelleria** [RF13]. **margin** [BK11, GVS⁺¹⁰, NTK⁺¹⁸, SFLB16]. **margins** [FB12]. **Marguerite** [RVvdP⁺¹⁷]. **marina** [AHJS15, DIC⁺¹⁸, FJBP15, HHHT19, HBM11, MZH15, MHH⁺¹⁷, MMBP18, RBM14, VPWW10]. **Marine** [CBP10, FSBT16, LCZ⁺¹⁹, AWG⁺¹², AACS11, AMMH⁺¹³, BYD19, BTJ⁺¹², BMC⁺¹⁶, BSM17, BWP⁺¹⁰, BSMC12, BMB⁺¹⁸, CBFK19, CSÁS⁺¹⁰, CWF11, CLHL12, CFB14, CL17, CEB⁺¹⁷, CMS⁺¹⁸, CdC⁺¹¹, DdD⁺¹⁰, DT16, DMN15, DdG10, ETKL15, ESMS13, FTC10, FT11, FYT⁺¹², GMD11, GBL13, GBB^{+19a}, GBMG12, GRDPL14, GRPB⁺¹⁷, HBB⁺¹¹, HBCK10, JBPM15, KP13, KPW⁺¹¹, KS13, KPJ12, KWGN⁺¹⁰, LRY12, LF16, LF17b, LBHS13, LK14, LKK13, LALGM18, LRG16, MCLT15, MTM⁺¹⁶, MJJMM17, MB10, MHT13, MTEM15, MCC⁺¹⁰, MMPSB14, MZB⁺¹⁵, MBO⁺¹⁶, NTA14, NLM⁺¹², NRS16, NB17, ORC⁺¹⁷, PBA⁺¹⁵, PLS⁺¹⁶, PSD⁺¹⁷, RASD10, RS19, RSM13, RBI⁺¹⁰, RCSÁS⁺¹⁰, RSTS⁺¹⁸,

SLC⁺¹⁶, SGCI14, SASB⁺¹⁵, SPS19, SBDS⁺¹⁵, SEYJ11, SSL⁺¹², SFLB16, SMW⁺¹⁸, SYW18, SHF⁺¹¹, SH11, TJJ⁺¹⁵, USB⁺¹⁰, VMAS⁺¹⁶, VBG⁺¹³, VF10, VPWW10, WWC⁺¹³, WOC⁺¹⁸]. **marine** [WKAM⁺¹⁹, XBR⁺¹⁸, XSAM12, ZYZ19, vdJFS⁺¹⁸]. **marine-derived** [LRG16]. **marinus** [VIS⁺¹³]. **maritimus** [AMMH⁺¹³]. **markers** [WJHS18]. **marsh** [ALG⁺¹³, AC17, BvBB⁺¹⁶, CEES14, CZB⁺¹⁸, CF13b, CF14, FYVU17, KJG10, KOFN11, LHSBP18, PE16a, PCPZ18, SKGT17, SBNC⁺¹⁹, SSP⁺¹⁸, SGS18, SVMT15, TMH⁺¹⁸, WDCH18]. **marsh-dominated** [WDCH18]. **marsh-lined** [FYVU17]. **marshes** [GGL⁺¹⁸, SHM⁺¹⁹, WKG⁺¹⁶]. **Mass** [MMB17, RDT⁺¹⁴, CFD15, CL11, CR10, EBMR12, Hir12, HLGA17, LRM⁺¹⁹, NLM⁺¹², RBY⁺¹⁷, RSN16, RAKE05, RN14, SSC⁺¹⁰, WGC⁺¹³]. **Mass-specific** [RDT⁺¹⁴, EBMR12, NLM⁺¹²]. **Massachusetts** [MDE11]. **masses** [ÁSNCA⁺¹³, IHSS⁺¹⁹, MVT⁺¹⁷, RMJ⁺¹⁸]. **massive** [LCBC16, PKB⁺¹⁷, TLB⁺¹⁶]. **master** [SPR⁺¹⁵]. **Masthead** [Ano19n]. **mat** [VLJ⁺¹⁰]. **Matano** [KCM⁺¹⁰]. **material** [DTPP12, WM12]. **maternal** [PvEF12]. **Mating** [SNTK15, KSY11, LRY12]. **Mats** [GSPM13, HGD14, LFB⁺¹⁰, MDF⁺¹⁴]. **matter** [ÁSNCA⁺¹³, BVSM15, BLWV10, CRCGG⁺¹⁷, CSÁS⁺¹⁰, CÁSO⁺¹⁶, CT18b, CPG⁺¹⁰, CHS⁺¹⁸, CDA16, CGT16, CHV⁺¹⁷, CCC10, CK12, CK13, CFF⁺¹⁷, DVC⁺¹⁷, DCCB17, DWDH10, EKS⁺¹⁸, EMB12, EBMR12, FUS⁺¹⁶, FHS10, FPG11, FB12, FEC⁺¹⁶, GKT⁺¹⁵, GMS⁺¹⁸, GAM⁺¹⁹, GPS15, HA16, HKP⁺¹⁶, HEB⁺¹⁹, HT17a, HEH⁺¹⁷, HMFF10, HMFF12, JSK⁺¹⁵, KBA⁺¹², KPW⁺¹¹, KHCH14, KWRS13, KMC⁺¹⁵, KWB⁺¹⁶, KHK⁺¹⁹, LPO⁺¹¹, LZK18, LTX⁺¹⁷, LÁSDC18, LBR⁺¹², MGHS18, MPONC⁺¹⁷, MPK⁺¹³, MKW⁺¹⁹, MA18, MMXC15, MBLD15, MBAS⁺¹⁷, MCC⁺¹⁰, MSD⁺¹⁴, MBO⁺¹⁶, MGJH18, NNE12, NWT⁺¹⁹, OCB⁺¹⁸, OWFS11, PMY^{+19b}, PCO⁺¹⁵, PML⁺¹⁹, RBCS16, RCSÁS⁺¹⁰, REDW10, RZW11, SLC⁺¹⁶, SHSK14, SKK⁺¹⁵, SCF⁺¹⁵, SEYJ11, SFB12, SFLB16, SBC⁺¹⁷, SSC⁺¹⁰, SYW18, TLG⁺¹¹, TEZ⁺¹⁸, THH⁺¹³, TAV⁺¹⁰, TTV⁺¹³, TSDF⁺¹⁶, TZD⁺¹⁵, UVGS10, WM12, WDX⁺¹¹, WMC⁺¹⁵, WSM⁺¹⁹, WYW⁺¹⁰]. **matter** [WZBW⁺¹¹, WSTG18, XSAHV13, YHS⁺¹⁷, YJO⁺¹⁹, ZZY⁺¹⁰, ZZAC13, dCGS19]. **Mauritanian** [KTS⁺¹⁴]. **maxima** [LBC⁺¹⁸, LBS17, SVS⁺¹⁹, WCP⁺¹⁵]. **maximum** [AvSGK18, ETKL12, LCM⁺¹⁷, MSSH12, SS16]. **may** [BS18b, DKSA19, HCAF18, LFH⁺¹², OBM⁺¹¹, PBV16, SM10, WCS⁺¹⁸]. **McMurdo** [DTKMK15, DKK⁺¹⁴, VMAS⁺¹⁶]. **meadow** [AFG⁺¹⁶, BDP⁺¹⁹, CvHB⁺¹⁸, CB12, CHL⁺¹⁷, HBM11]. **meadows** [AFSM17, BBS⁺¹⁸, MMGO^{+17b}, MHH⁺¹⁷, PHLSSS19, RASV⁺¹⁷]. **mean** [CT18a, SRA10, XZC⁺¹⁶]. **means** [BTH⁺¹⁶]. **measured** [AGMR14, EWB12, HBM11, PSB⁺¹⁶, RBM14, dKYH⁺¹²]. **measurement** [YWL⁺¹⁷]. **measurements** [BPB⁺¹⁷, BLH⁺¹³, BFD⁺¹¹, BMD17, BLG⁺¹⁵, DTPP12, EM13, HCK11, JD16, Joh10, KTH⁺¹⁹, LP10, SKK⁺¹⁵, SSB⁺¹⁸, SWL11, VPC10, WSB⁺¹³].

measures [KS16]. **Measuring** [Tho19]. **Mechanical** [YKBJL12, SvKP⁺¹⁸, WHH⁺¹¹]. **mechanically** [CGB⁺¹⁸]. **Mechanism** [YAC⁺¹⁹, AvSGK18, KZR⁺¹⁶, LdJMS⁺¹³, LDCT11, MCC⁺¹⁰, MPAS17, NRL15]. **Mechanisms** [CF13a, FSBT16, KTK⁺¹³, RGO⁺¹¹, SM11a, HNL⁺¹³, IGP⁺¹², KMF10, LCW^{+17b}, MGGS18, MPM⁺¹⁵, MCT⁺¹⁴, PRL18, VBBR17, ZSZ12, dBWL⁺¹³]. **Mechanistic** [SKV⁺¹⁹, LGW⁺¹⁹]. **mediate** [RRD14]. **mediated** [BDC⁺¹⁴, CLN⁺¹⁹, JMJ⁺¹⁹, PLE⁺¹⁷, SAP⁺¹¹]. **mediation** [HHA18]. **Mediterranean** [GGPM⁺¹⁰, ALL^{+10a}, AFSM17, ACA⁺¹¹, BA14, BCVAn10, CNL⁺¹⁵, CdC⁺¹¹, DMSHC16, FDP⁺¹⁸, FEC⁺¹⁶, GAH11, GBMG12, KZB⁺¹⁰, MGGS18, MPONC⁺¹⁷, MAD⁺¹⁵, PCF14, RBG⁺¹⁰, RGGL⁺¹², RGLM⁺¹², SCAB⁺¹⁶, SWM⁺¹⁰, TvBR⁺¹⁹, VMF⁺¹¹, WVGB10]. **medium** [PMRRA19, SPG⁺¹³]. **medium-size** [PMRRA19]. **medium-sized** [SPG⁺¹³]. **megacity** [BBJ⁺¹⁹]. **Meganyctiphanes** [BPW⁺¹⁹, CTA⁺¹⁹, KK11]. **megatidal** [MBO⁺¹⁶]. **Meiofauna** [NNE12]. **Meiofaunal** [MTT17]. **Mekong** [GBD⁺¹⁰]. **melanostomus** [TB18]. **Melosira** [KIH⁺¹⁵]. **melting** [GRT⁺¹⁴]. **meltwater** [MSAM18, SS12a]. **Members** [Ano19o, Ano19p, Ano19q, Ano19r, Ano19s, Ano19t]. **membranacea** [SMF10]. **Membranipora** [SMF10]. **Menten** [FFA13]. **menu** [LTPK⁺¹⁸]. **Mercenaria** [MAS⁺¹⁶]. **Mercury** [AHD⁺¹⁸, HGM10, BFD⁺¹¹, BPRG⁺¹⁸, CMW⁺¹⁹, GBT⁺¹⁷, JSB⁺¹⁴, JW14, KMC⁺¹⁵, Kus14, LF19, OSHS19, RQC⁺¹⁵]. **Meretta** [AMQ⁺¹¹]. **meromictic** [MRC⁺¹⁶, VHM⁺¹⁰, WBZ⁺¹³]. **meroplankton** [IH11, SJ11]. **Meso** [CSS⁺¹⁶, NSV⁺¹⁴, NWT⁺¹⁹, YYMN13]. **Meso-** [CSS⁺¹⁶, NSV⁺¹⁴, YYMN13]. **meso-eutrophic** [NWT⁺¹⁹]. **mesocosm** [HMH⁺¹⁶, PLE⁺¹⁷, SJB⁺¹⁹, Spi15, WVGB10]. **mesocosms** [LEN⁺¹⁵, SCF⁺¹⁵]. **Mesodinium** [JJ17]. **mesograzer** [HHHT19]. **Mesopelagic** [HDP15, BIM⁺¹⁶, CPHD15, GCH⁺¹⁸, HONR11, JTG⁺¹¹, KTRK11, MG17, MVT⁺¹⁷]. **mesophotic** [PGRR⁺¹⁹]. **mesoscale** [ATP⁺¹⁵, CHS⁺¹⁸, TNMV⁺¹⁰, WBG⁺¹⁶]. **mesotidal** [IR16]. **mesotrophic** [KHP18, PS17, TMO⁺¹⁸]. **mesozooplankton** [KT13]. **meta** [FBV11, MJJMM17]. **meta-analysis** [FBV11, MJJMM17]. **Metabolic** [AACS11, Ano21a, GSG⁺¹⁷, SAH⁺¹⁹, ZCK⁺¹⁶, AdGAD14, BHG⁺¹⁸, DdG10, FMGR⁺¹¹, FCD12, HDP15, KTL17, Les16, RSJ⁺¹⁸, SJB⁺¹⁹, WLO⁺¹⁹]. **Metabolism** [GLF17, AEH19, ARB⁺¹⁹, BDP⁺¹⁹, BWB⁺¹⁰, BMD17, BGM⁺¹³, CBFK19, CB12, CG17, CSU13, DKG15, DHG⁺¹⁷, EMO⁺¹¹, FDS⁺¹⁴, FAF⁺¹², GNHGM13, GTR⁺¹³, GN16, HCK10, HEB⁺¹⁹, HBR13, HSBA10, HH14, HBM11, IH18, KBA⁺¹², KB15, MLC13, OSC14, dGD13, RBM14, RAB⁺¹⁷, SMM11, SJB⁺¹⁹, SGVR16, SKJD⁺¹⁴, SLH⁺¹⁵, SPGRP⁺¹⁷, SSJR⁺¹⁰, SCBR12, TDM⁺¹³, VBC⁺¹², WKB⁺¹⁰, dGCB⁺¹¹]. **metabolome** [WRH⁺¹⁸]. **metacommunities** [HS10]. **metacommunity** [HT17b]. **Metagenomic** [HNL⁺¹³, KHCH14, VLJ⁺¹⁰, BSC⁺¹⁵]. **Metal** [VF10, ANP⁺¹⁴, BLLB12, HS18, HCW⁺¹⁰, HCLS11, LYH17, ORC⁺¹⁷, WZR19, WFR10]. **metalimnetic** [KBE⁺¹⁷, WCCP14, WCP⁺¹⁵].

metalimnion [Ano21a, GSG⁺17]. **metalloenzymes** [MTW12].
Metaproteomic [WDX⁺11]. **metatranscriptomics** [MTK⁺17]. **metazoan** [ACA⁺11]. **meteorological** [AA11, WSTD10, ZSM14]. **meter** [SLS⁺11].
Methane [ACA⁺18, APP12, CDW⁺16, DPSW16, DBSP⁺16, GMBL16, HW16, HNHS⁺15, LKS⁺16, PSB⁺16, TMF⁺14, ZOB⁺15, BMF⁺16, BMN16, BNW⁺14b, BK11, BSSW11, CKB⁺16, FWFB10, FCRW⁺16, GMS⁺18, GAM⁺19, HFP10, HSP⁺16, JBB⁺16, JMJ⁺19, JP10, KHTO13, KHCH14, LVDM19, LGC16, MLD⁺16, àNTS13, OMB⁺16, PHPH⁺16, RETS16, SBvH⁺15, SWM⁺18, SOM17, SDS⁺16, SAP⁺11, SSB⁺16, TSB⁺19, TLR⁺13, TMH⁺18, TSDF⁺16, TMH⁺10, UCOG16, VLDM19, VHM⁺10, WCJ16, XBR⁺18, ZMS⁺18]. **methane-derived** [HNHS⁺15]. **methane-enriched** [UCOG16]. **methane-rich** [KHCH14]. **Methanogenesis** [MMGP⁺12, AES11, CGT16, XBR⁺18]. **Methanogenic** [CKCEP10, CCC10]. **methanotrophic** [HMV12, ZOB⁺15]. **methanotrophs** [BNW⁺14a, OMB⁺16]. **methanotrophy** [AES11, CGT16, SSS⁺16, SIH⁺17, SSB⁺16, TLR⁺13, UCOG16].
Methionine [BMM⁺13]. **method** [MMPSB14, PSB⁺16, SW11].
Methodological [KPP⁺18]. **Methyl** [BFD⁺11, FYT⁺12, CMW⁺19, HKU⁺10]. **Methylmercury** [LF16, LF17b, GBT⁺17, HGM10, LF19, OCB⁺18, TBF⁺13].
Methylotrophic [XBR⁺18]. **metrics** [WBZ⁺14]. **Mexican** [BJDMH10, MMC⁺10]. **Mexico** [BSC⁺15, CPPdAR⁺13, DCCB17, FCRW⁺16, GDD⁺16, GCR⁺10, HCC⁺13, LGC13a, LGC13b, PGB⁺19, RG13, SFB12, TKK⁺17, WWC⁺13, YMB⁺18, ZMS⁺18]. **Meyer** [Ano21b].
Meyer-Kaiser [Ano21b]. **Michaelis** [FFA13]. **Michigan** [LG16, RAV⁺17].
Micro [BNW⁺14b]. **Micro-aerobic** [BNW⁺14b]. **microalga** [KS13].
microalgae [BVvB⁺19, CCW⁺19, ESMS13, HAC⁺11, KG18, LLB17].
Microalgal [SMLC⁺18, HSLH⁺14, RRD14]. **Microalgal-driven** [SMLC⁺18]. **microbe** [GLS⁺13, VCPC⁺16]. **microbe-induced** [GLS⁺13].
Microbes [TLR⁺13, BIM⁺16, FFA13, SCG⁺19, TYX⁺19]. **Microbial** [CVS⁺10, DTL⁺19, DHW11, GGPM⁺10, LF19, MGK15, MG17, MAS⁺16, RLL⁺10, ŠGN⁺19, SPG⁺11, BHB⁺12, CCK⁺12, CPF16, FT11, FBFR13, FEC⁺16, GGL⁺15, GBP⁺12, HMFB16, HGD14, HHS⁺18, HWZ13, HEH⁺17, HDDH⁺17, HSP⁺16, KHP18, LEN⁺15, LSH⁺17, LKF⁺18, LHLT13, MFMC⁺10, MC16, MACM11, MGS12, MCYR17, NUH⁺12, NTM⁺10, OALD10, PD11, PLE⁺17, RLC⁺11, RSJ⁺18, SCF⁺15, SMR⁺17, ŠNZ⁺14, SBH⁺11, SGRB10, SSC⁺17, VSP⁺11, VLJ⁺10, VML⁺19, VMAS⁺16, WGDA19, WRO⁺11, WYW⁺10, ZTW⁺11, ZXL⁺19, vOSH12].
microbially [MBH⁺15]. **microbiome** [BBC⁺13]. **microbubble** [RMH⁺17].
microcystin [PHG13, DMS⁺18]. **microcystin-LR** [DMS⁺18]. **Microcystis** [ALdML⁺14, BVSM15, FDBW16, GPL11, GOD⁺18, HL13, LGW⁺19, MQP⁺16, PHG13, WKK⁺11]. **microelectrode** [HGD14, TGG⁺11].
microenvironment [WPL⁺14]. **microenvironments** [LCS⁺19].
Microgeographic [JLC⁺15]. **microlayer** [TAV⁺10]. **micron** [JYS18].

micronekton [GCH⁺18, RRCH⁺19]. **Micronutrients** [Alo17].
microorganisms [SDCF16]. **Micropaleontological** [GdVT⁺11].
Microphytobenthic [TMK⁺13]. **microphytobenthos**
 [EOM16, MMPSB14, OCR10, OEM12, ORGE16]. **microphytoplankton**
 [AAIA14a, AAIA14b]. **microplankton** [ACA⁺11, RBCS16].
microzooplankton [CLHL12, CLLH14, CSS⁺16, EB12, KKS10, Lat14,
 LCZ⁺19, NSV⁺14, PLE⁺17, SNM⁺15, SBFC18].
microzooplankton-dominated [PLE⁺17]. **mid**
 [HGM10, CWHP14, CSC⁺11, SBBNM14]. **mid-Atlantic**
 [HGM10, CWHP14, CSC⁺11, SBBNM14]. **middle** [ZZW16, KZR⁺19].
middle-lower [ZZW16]. **midnight** [DHG⁺17]. **midsummer** [ZXN⁺12].
Midwater [HPCD13]. **migrating** [HV16, NL14]. **Migration**
 [OR16, BM16, BRF⁺17, DHG⁺17, EHW⁺15, FOT⁺15, HSR⁺10, HPS⁺10a,
 IPGP10, JSFC18, KTRK11, KGM14, MWSB18, OMSC13, PGB⁺19, PK14,
 RRCH⁺19, SMN⁺15, TGGZS⁺10, VMC⁺13, WCB⁺10, WFB⁺11].
migrations [Ano17l, HCS11, ZXZ17b]. **Mikata** [SSYT14]. **mild**
 [PKWS19, RLB⁺10, RPG13]. **mildest** [PST⁺13]. **miliacea** [LHSBP18].
miliaris [TRD⁺14]. **millennial** [XZGW17]. **millennial-aged** [XZGW17].
Mineral [BS18a, JCF⁺10, PDFS14, PE13]. **mineralization**
 [ÁSNCA⁺13, CEP14, CGT16, KBT16, LCM⁺12, LZK18, NNE12].
mineralogy [NEH⁺19]. **minerals** [DMN15, LK15, SKLG10]. **minerogenic**
 [EP14]. **minimum**
 [DTFR12, FCD12, KBE⁺17, LEN⁺15, MMC⁺10, NHS⁺12, TSB⁺19, VGM14].
mining [RSJ⁺18, SLBH⁺19, VB17]. **minuses** [GWD⁺16]. **mirror** [JGR⁺14].
mirror-based [JGR⁺14]. **Misconduct** [How15b]. **missing**
 [HLFM⁺10, MSGS⁺13]. **Mississippi**
 [OPZ13, GCH⁺12, HHS⁺18, SFB12, TT12]. **mitigate** [OMB⁺16, WCS⁺18].
Mitochondrial [PTS12]. **mixed**
 [ANP⁺14, AdBVA10, Ano19c, GBB⁺18, HWZ13, LBS17, SNK12]. **Mixing**
 [HMHI13, KCM⁺10, PMRRA19, WSB⁺13, YAC⁺19, AGLM17, AGML18,
 BBR12, CFD15, CSD10, DHH15, FYVU17, GGTC⁺18, HD19, HGvB⁺13,
 IHSS⁺19, JMM14, JSB⁺14, KGT12, KWGS18, LBS17, LC11, MBH⁺15,
 NA17, OrIA10, PHJ12, RCV⁺14, SBBNM14, SLPM15, VLDM19, VMCM⁺17,
 XDC⁺19]. **mixotrophic** [HLG15, JB19, PS17]. **mixotrophs** [HGdG⁺19].
Mixotrophy [MPAS17, DKSA19]. **Mnemiopsis**
 [CMG⁺15, HJT⁺13a, HJT⁺13b, JTH⁺11, JCS⁺18]. **mobile** [MH16].
mobility [SWD11]. **Mobilization** [WLL⁺11, XZGW17]. **mode**
 [KNL10, SSS⁺16]. **mode-water** [KNL10]. **Model**
 [BLG⁺15, YAC⁺19, BRR⁺13, BSCC15, BBR⁺14, BDC⁺14, BG10b, CRB⁺17,
 CAQS16, FDL17, HV16, HBR⁺14, HE10, HRPW15, HSBA10, HH14, HRN11,
 KGM14, LEN⁺15, MCH12, NTA14, RSG11, RAKE05, RN14, RMDK10,
 RDZ⁺13, SKV⁺19, SBNC⁺19, SSPK⁺12, SBF18, TBHM⁺13, TBLG14,
 WP14, WDJF12, CR10]. **Model-based** [BLG⁺15]. **Model-guided**
 [YAC⁺19]. **modeled** [SPR⁺15]. **Modeling**

[EO13, FLM⁺19, GBR14, KGT12, RGB⁺19, SPG⁺13, SMA15, BPW⁺19, CLB19, GAH11, JHD⁺11, KGC⁺12, KFJ13, LEG⁺10, MMFBB18, RAV⁺17, SOM17, Scu16, SPMW11, SCQ⁺17, WGC⁺13, WSB⁺13]. **models** [BMW10, CEPPR14, DMS⁺18, ESMS13, FFA13, FYVU17, JSB⁺14, LHLT13, MA18, SBT⁺19, SRAB10, SRA10, SL10a, SL10b, SC10]. **moderate** [WGM16]. **moderates** [SBK18]. **moderating** [BPL⁺19b]. **Modern** [WKJS⁺14, BWBB15, PE16a, RSTP12]. **modes** [BL18, SWL11]. **modifications** [BVC⁺14]. **modified** [MD10, RHMSE15, TCFP19]. **modulate** [ŠGH⁺18, WZBW⁺11]. **modulated** [TDM⁺13]. **modulates** [MLGZ16, ŠNZ⁺14, TAE⁺18, VCPC⁺16]. **modulating** [ZBSR15]. **modulation** [RBD18, RR12, RGGL⁺12]. **Molecular** [DSM⁺18, JAZ⁺10, MPONC⁺17, SSC⁺10, VdRA⁺19, ASSG12, FSST11, KWB⁺16, LCW17a, LFC17, LLW⁺18, RGM⁺11, SOM⁺15]. **Molybdenum** [GWSEA10]. **Monica** [HMV12]. **monimolimnion** [JW14]. **monitoring** [LC12, TCFP19]. **monomictic** [NUH⁺12]. **monoxide** [ZXN⁺12]. **Montastraea** [TEGL11]. **Monterey** [HONR11]. **moored** [SBM⁺15]. **moorings** [Joh10]. **morphofunctional** [FBL15]. **Morphological** [PSS⁺14, HCL⁺18, KPV⁺11, LdlSB⁺12, LLW⁺18, RG19]. **morphology** [TPM⁺14, TRA19, WBS⁺10, WHH⁺11]. **morphometric** [SvKP⁺18]. **morphometry** [SBK18, VMMS⁺13]. **mortalit** [VSD10]. **Mortality** [MHA⁺18, ADCH18, CBS⁺17, HMD11, MMB17, MGS12, PST⁺13, SJM11, TIS⁺13, WD15]. **mosaic** [TSC⁺19, GKT⁺15]. **Mosby** [FWFB10, LFB⁺10]. **most** [PST⁺13]. **Motile** [vSGAK17, BHV⁺17]. **motion** [HRN11, HPL11, KYRMD18, MP17, PHLSSS19]. **motions** [OIS10, PHJ12]. **mountain** [BCVAn10, BLWV10, DMSHC16, FOT⁺15, KHVS11, HML⁺14]. **mountainous** [WGH⁺10]. **mountaintop** [VB17]. **movement** [HMD11, HBBM19, KYRMD18, TT14]. **movements** [MHT13, SSH⁺16]. **moving** [JCS⁺18]. **mucus** [HA16]. **Mud** [FWFB10, LFB⁺10]. **muddy** [SBNC⁺19]. **mudflat** [BvBB⁺16]. **mudflats** [GSPM13]. **multi** [BGW⁺15, BL18, BCM⁺17, CHHT18, CS12]. **multi-armed** [BL18]. **multi-isotope** [CS12]. **multi-scale** [BCM⁺17]. **multi-sensor** [BGW⁺15]. **multi-year** [CHHT18]. **multibasin** [ILPL13]. **Multidecadal** [DHZ⁺19, HHE⁺19]. **Multifaceted** [MPSA17]. **Multiple** [KS16, Ker17, MA18, PSNE15, TLG⁺11, FYVU17, GNWDL19, HCD19, HT17b, LACI10, MMWR17, MMBP18, SSFR19, WMT⁺12]. **multipopulation** [FSST11]. **Multiscale** [FSCB11, LDT⁺11]. **multiseries** [SHF⁺11]. **multispecific** [WZTK15]. **multispectral** [KYG⁺12]. **multivariate** [RBI⁺10]. **Murderkill** [FYVU17]. **murky** [LPLH18]. **mussel** [Les16, PSS⁺14, PLS⁺16, SGA10, TRA19, WCS⁺18]. **Mussels** [NA17, CS12, KKB⁺18, KKS10, RAV⁺17]. **muta** [MBLP11]. **Mya** [BMDC10]. **Mycosporine** [KMF10, TAV⁺10, UVGS10]. **Mycosporine-like** [KMF10, TAV⁺10, UVGS10]. **myctophid** [CFRL10]. **myriad** [FMP⁺13]. **mysid** [BRT⁺10]. **Mytilus** [Les16].

N [PFH⁺17, BMBI12, BCF⁺17, BLJ13, CHHT18, CvHB⁺18, CAQS16, CHL⁺17, DLP13, DLBF17, DFK⁺17, EOM16, HSB⁺13, JSH12, JTH⁺13, KK13, KBJ⁺18, LW_rDM⁺12, LWWE⁺18, MBB⁺18, MHL⁺16, MCGF⁺11, NTK⁺18, OHKC⁺12, SMR⁺17, THA17, TG17, UA10, WE19, WFK⁺16, YJO⁺19, ZCZ⁺18, ZLLM10, ZCY⁺15]. **nano** [MBO⁺16]. **nano-** [MBO⁺16]. **nanocyanobacterium** [MFK⁺13]. **Nanofibrils** [SH10b]. **nanoflagellates** [PS17]. **nanomolar** [ZF17]. **nanophytoplankton** [Piw19]. **nanoSIMS** [BBTK⁺16]. **narrow** [DB13, LDT⁺11]. **national** [BGB⁺14]. **native** [SSFR19]. **Natural** [PPT12, SPTS15, ASA⁺18, BHC13, BHC14, BS18a, BSMC12, CEB⁺17, GC16, HSC⁺14, JTG⁺11, KM10, MLS⁺14, MBTK18, MBP⁺17, NCC14, PvDM⁺13, PDP⁺10, RDT⁺14, RLL⁺10, SLC18, SDH⁺14, TSDF⁺16, WXMS10]. **naturally** [BHW⁺12, BCC⁺12, CGP⁺19, MRH⁺15, OCLW11, SCF⁺15]. **nature** [RWB⁺19, SHM⁺19]. **nature-based** [SHM⁺19]. **nauplii** [JMNG⁺13, SGCI14, VIS⁺13]. **neap** [VMCM⁺17]. **Near** [VBBR15, Aus13, BHW⁺12, CTH15, PHPH⁺16, PMRRA19, RDT⁺14, SFMF15, SW14, VPC10, VML⁺19, ZXN⁺12]. **near-field** [PHPH⁺16]. **Near-inertial** [VBBR15, Aus13, CTH15]. **near-infrared** [RDT⁺14, SW14]. **near-shelf** [TSC⁺19]. **near-shore** [VML⁺19]. **near-surface** [VPC10]. **near-term** [BHW⁺12]. **Nearshore** [GWN⁺12, CDA16, FZL⁺14, HCD19, JHD⁺11, MF19, MSM⁺17, OLF⁺11, OFGF12, PRL18, SN_vD⁺10, SSH⁺16, SPG⁺13]. **negative** [BHW⁺12]. **negatively** [GOD⁺18, WGM16]. **neglecta** [RF13]. **Negro** [BMF⁺16]. **nekton** [ALG⁺13]. **nematode** [MGT15]. **nematodes** [GVS⁺10]. **Neogobius** [TB18]. **nepheloid** [BNW⁺14a]. **net** [BRNS18, BS18b, CF13b, GSPM13, HEBS10, HCH⁺19, KEH⁺14, KTS⁺14, LWWC⁺16, SPGRP⁺17, SSJR⁺10]. **network** [MBB⁺18, RGM⁺11, SSU⁺16]. **neustonic** [MTK⁺17]. **Nevada** [SMM11]. **newly** [OLC18]. **next** [Edm15]. **Nhecolândia** [FMP⁺13]. **niche** [CTA⁺19, FA10, ITO⁺17, MAB⁺17, MCYR17, PWWF18, WOC⁺18]. **niches** [ABD⁺17, BVP⁺15, CFRL10, INF12, WKAM⁺19]. **Nickel** [Ho13, MBC⁺18, TNMV⁺10]. **night** [DHG⁺17, GSB⁺17, KK11, MKLKP16]. **Niñ** [VLWV14]. **Ningaloo** [FDH⁺14]. **Niño** [MMHT10, SCAB⁺16]. **Niskin** [SSC⁺17]. **Nitrate** [MCH12, MD15, NCT⁺14, BSCC15, BCRC16, BSMC12, DBFL11, DSS⁺11, FDS⁺18, GWD⁺16, HC10, HCF⁺10, HKU⁺10, Joh10, KSFT13, KJG10, KvdPB18, LTH⁺12, MCGF⁺11, MAS⁺16, MRH⁺15, QFH18, RS16, RRB⁺16, RDB⁺18, SMR⁺17, SBC⁺17, SPSS10, SYW18, TFLS14, TG17, TMO⁺18, WBG⁺16, WZG⁺14, WGC⁺13, WGCC14]. **nitrate-low** [MRH⁺15]. **Nitric** [SSKdB14]. **nitricline** [WTC⁺17]. **nitrification** [AMMH⁺13, DTM18, MHL⁺16, PF_vO⁺18, SSG⁺17, SWE⁺18, SBS⁺13, SDCF16]. **nitriying** [BSMC12]. **nitrite** [BSC⁺15, BC10, BSMC12, MCH12, MC16]. **Nitrogen** [ASH⁺14, ACC⁺17, BGM⁺13, CF13b, EWB12, FWWF18, JWS15, LK14, LWWC⁺16, MC16, OHKC⁺12, OWS⁺17, PF_vO⁺18, RBY⁺17, RSTP12,

RBRH10, SM10, TFLS14, VFME18, WTN⁺¹⁵, XPQ⁺¹⁰, AFSM17, AHJS15, ACW⁺¹⁸, BSR⁺¹⁷, BMW10, BAA⁺¹³, BBTK⁺¹⁶, BDK⁺¹⁷, BHM⁺¹⁷, BLWV10, BSA⁺¹⁶, CRJ⁺¹⁴, CPHD15, CMM⁺¹¹, DTL⁺¹⁹, DHH15, EED10, EMS16, EOM16, FWO⁺¹⁸, GFT⁺¹⁴, GML⁺¹², GLKK10, GWSEA10, GWD⁺¹⁶, GWB⁺¹⁴, GBC⁺¹⁷, GHS14, GRE⁺¹⁶, GBD⁺¹⁰, GN16, HAC⁺¹¹, HCK14, HOD⁺¹⁷, HJB⁺¹², HLGA17, Ho13, HTLM18, HVD⁺¹⁸, JKKM13, JHLK⁺¹⁹, JSH12, JTH⁺¹³, KRB⁺¹⁸, KMF10, LWE⁺¹¹, LKF⁺¹⁸, LCCF10, LWfDM⁺¹², LBB18, LMR14, MTSG18, MFK⁺¹³, MGL⁺¹⁶, MTEM15, MGW⁺¹³, MBP⁺¹⁷, MKG⁺¹⁵, MCYR17, MDSG18, MAS⁺¹⁶, NPT11, NCT⁺¹⁵, OSB⁺¹⁵, OVRJ13, PSH⁺¹¹, PK14, PGP⁺¹⁴, RS16, RvSM17, REE⁺¹², RWC16, SCR⁺¹², SM11b, SK19, SLH⁺¹⁵, SKK⁺¹³. **nitrogen** [SFI⁺¹⁸, SRM⁺¹⁸, SS12a, SSYT14, TK12, TKB18, THFG16, VCPC⁺¹⁶, WDMF13, WCC⁺¹⁷, WE19, WGCC14, WRH⁺¹⁸, WLHW13, XXZ⁺¹⁹, XLS⁺¹⁹, YLH⁺¹⁶, vdHHC⁺¹⁹, SM11b]. **nitrogen-cycle** [JKKM13]. **nitrogen-enriched** [GWD⁺¹⁶]. **nitrogen-fixing** [GBC⁺¹⁷, SK19, YLH⁺¹⁶]. **nitrogen-limited** [MFK⁺¹³]. **nitrogen-rich** [OVRJ13, SS12a]. **nitrogen-to-phosphorus** [BMW10, OSB⁺¹⁵]. **Nitrosopumilus** [AMMH⁺¹³]. **nitrous** [BSN⁺¹⁴, DHW11, SPSP10, WGC⁺¹³, XXZ⁺¹⁹]. **Nitzschia** [AJ15, LBHS13, SHF⁺¹¹]. **NMR** [SKK⁺¹⁵]. **No** [Meh10, JTH⁺¹¹, WTC⁺¹⁷]. **noble** [TBK15]. **noble-gas** [TBK15]. **Noctiluca** [TRD⁺¹⁴, VdRA⁺¹⁹]. **nodosa** [IOB⁺¹¹]. **nodule** [SLBH⁺¹⁹]. **noltii** [LdlSB⁺¹²]. **Non** [OWM⁺¹⁸, BHV⁺¹⁷, BSY⁺¹⁶, CRB⁺¹⁷, PCY⁺¹⁰, RWC16, SPP⁺¹⁶, SSFR19]. **non-bloom** [PCY⁺¹⁰]. **non-cohesive** [SPP⁺¹⁶]. **non-motile** [BHV⁺¹⁷]. **non-native** [SSFR19]. **Non-seagrass** [OWM⁺¹⁸]. **non-seasonal** [BSY⁺¹⁶]. **non-vegetated** [RWC16]. **non-zooxanthellate** [CRB⁺¹⁷]. **nonconsumptive** [MHA⁺¹⁸]. **nonindigenous** [SMF10]. **noninvasive** [SDS⁺¹¹]. **Nonlinear** [OR16, CLLH14, FWS⁺¹⁴, LFL17, SMMF19, VMI13]. **nonmotile** [GK15, HSR15]. **nonnative** [GSPM13]. **nonphotochemical** [DVSV13, RGG⁺¹⁰]. **nonpoint** [JSH12]. **nonpoint-source** [JSH12]. **nonrepresentative** [MLS⁺¹⁴]. **noon** [OPZ13]. **Nordic** [BPW⁺¹⁹]. **Norfolk** [SSN12]. **normalized** [ESMS13]. **norms** [PZHD18, ZKL⁺¹⁴]. **North** [CVS⁺¹⁰, DBH⁺¹⁶, VPG⁺¹⁹, GJWS14, GJWS16, MvdPK⁺¹⁵, VBC⁺¹², WLW17, ZCK⁺¹⁶, ÁSNCA⁺¹³, BFW⁺¹³, BLW15, BPA12, BGW⁺¹⁵, BHB⁺¹², BSA⁺¹⁶, BTH⁺¹⁶, CTA⁺¹⁹, CR16, CPHD15, CSS⁺¹⁶, DDK10, DBV⁺¹¹, DKSA19, DvOR⁺¹⁶, FPP⁺¹⁹, FMM⁺¹⁴, HPCD13, HDP15, HLG15, HLJ12, HQB⁺¹⁸, HEBS10, JWGH19, KBVW12, LKS⁺¹⁶, LWB⁺¹⁷, MRKR⁺¹⁴, MMD15, MBBG⁺¹², PFvO⁺¹⁸, PWS⁺¹¹, RWM⁺¹⁴, RKMN⁺¹³, SLG10, SMR⁺¹⁷, SSB⁺¹⁶, SS17, TBLG14, UFW⁺¹⁸, WCC⁺¹⁷, WB19, WM17]. **North-Atlantic** [CTA⁺¹⁹]. **north-south** [MvdPK⁺¹⁵]. **north-temperate** [GJWS14, GJWS16, WLW17, ZCK⁺¹⁶]. **northeast** [ATP⁺¹⁵, ÁSNCA⁺¹³, BSB⁺¹⁰, CG17, HLH13, KEH⁺¹⁴, MLL⁺¹⁴, PNR19, RLL⁺¹⁰, SGG⁺¹¹, STB⁺¹⁶, SSH⁺¹⁴, SDCF16, WRS13, CEB⁺¹⁷, KCL⁺¹⁴, MvdPK⁺¹⁵]. **northeastern** [dGCB⁺¹¹]. **northern**

[APS⁺19, BBSK18, BPPF12, Bre14, BLLB12, DCCB17, DBSP⁺16, FLP⁺10, FVSL19, FLM⁺19, KH16, LGC13a, MF19, MWC⁺16, PGB⁺19, PMPD13, RG13, RVvdP⁺17, SLA⁺15, TKK⁺17, VSdG17, WAB⁺17, XDC⁺19, dFN10, FPD⁺10, IGP⁺12, LHS19, LGC13b, RCJ15]. **northward** [HZC⁺13]. **northwest** [ALL⁺10a, ACA⁺11, BA14, GBMG12, JAZ⁺10, LCBC16, MMHT10, PCF14, GMGM⁺13, PPT12]. **northwestern** [GAH11, KK13, RGGL⁺12, RGLM⁺12, ZCY⁺15]. **norvegica** [BPW⁺19, CTA⁺19, KK11]. **Norway** [GLKK10, JAS⁺15, MWC⁺16]. **Norwegian** [HATF17]. **Nostoc** [SJM11]. **nourishes** [MSSH12]. **novel** [SSS⁺16, TLR⁺13, YWL⁺17, YLJ11]. **novo** [LWWE⁺18]. **NPQ** [BHV⁺17]. **N₂NO₃⁻** [FYVU17]. **nuance** [FDP⁺18]. **nudibranch** [SGG⁺11]. **null** [Lat14]. **number** [GBK⁺18, SdlFdlF⁺10]. **Numerical** [FRP⁺14, BH13, CLB19, DMS⁺18, ZWA⁺14]. **nurseries** [TDF⁺17]. **nursery** [FLM⁺19, WDH⁺17]. **Nutrient** [ALG⁺13, DRE⁺10, GLI⁺15, GJR⁺19, GBB19b, HDK⁺12, HHS⁺18, KSG⁺10, OBL⁺19, TIN⁺14, ZCL⁺19, ZSM14, AP12, ARML10, ASR⁺17, AC15, AJ15, BBT⁺10, BMW10, BMBI12, BSA⁺16, CBF10, CJ17, ETKL12, ES13, EMO⁺11, ETI⁺16, FFA13, FDS⁺18, FDBW16, GCSO14, GC16, GNHGM13, GSPM13, GAM⁺19, GSZL13, GvBBB17, HSC⁺14, JSH12, JJ17, JWS15, KGRV18, KWRS13, KHK⁺19, KOFN11, KvdPVB13, LdlSB⁺12, LEN⁺15, LWE⁺11, LTPA17, LAC⁺19, LG10, MAB⁺17, MZB⁺15, NCC14, OWS⁺17, OFGF12, OSB⁺15, PvDM⁺13, PSG⁺16, RDC⁺19, SS12b, SS12c, SvKP⁺18, Spi15, SL10a, TWP13, VLJ⁺10, VMCM⁺17, WS18, WGM16, WC17, WZBW⁺11, WFL⁺12, WLHW13, ZLLM10]. **nutrient-depleted** [FDBW16]. **nutrient-limited** [MAB⁺17]. **nutrient-replete** [FDBW16]. **Nutrients** [BPGE13, SGA⁺17, AFG⁺16, CCV⁺18, CL10, DC15, DMSHC16, FBV11, GLMG15, GLF18, HLG15, JM16, KHH19, LKLH10, LC11, MCWB10, MVNG11, MBE⁺13, SLU11, SGRB10, UA10, WS18]. **nutrition** [SZH⁺10]. **Nutritional** [GVS⁺10, BISZ17, FBFR13, GCH⁺18, JLG10, PWF16]. **nuttallii** [ZLLM10]. **NW** [VMCM⁺17, GGPM⁺10, IHSS⁺19, KZB⁺10]. **Nyanza** [GNHGM13].

O [HH14, BDP⁺19, CHHT18, HH14, MQJG13, TG17, VHR⁺11, WFK⁺16, ZCZ⁺18]. **oases** [ACA⁺18]. **Obelia** [SGCC16]. **objects** [SGH12]. **obliquus** [HNZ⁺16, HCL⁺18]. **observation** [NL14]. **observational** [SMA13]. **Observations** [Aus13, Aus19, CT18a, EMH12, GAH11, JHD⁺11, SVMT15, WYL16, ABS⁺19, BGW⁺15, KZR⁺19, QHVM18, TIF⁺15, UFW⁺18, WSM⁺19]. **Observatory** [CVS⁺10, MKBSK19, GGPM⁺10]. **Observed** [AMB⁺11, GPH⁺13, LSDW18, SBM⁺15]. **Observing** [Joh10, RGM⁺11]. **occupy** [RHV⁺13]. **occurrence** [SLBH⁺19, VHR10]. **occurring** [HZC⁺13, LKLH10, SCF⁺15]. **Ocean** [CVS⁺10, HRG⁺15, KH16, Man10, MLGZ16, SW14, WCI⁺14, AWK⁺17,

BRS11, BPB⁺¹⁷, BMW10, BHW⁺¹², BG10a, BSFH10, BIS⁺¹⁰, BWD⁺¹¹, BWD⁺¹², BVP⁺¹⁵, CÁSO⁺¹⁶, CLHL12, CSJ⁺¹⁴, CHV⁺¹⁷, CESC14, CHPH13, CAS⁺¹⁷, CSME13, Edm11, FB12, FCC11, GGC⁺¹⁴, GDD⁺¹⁶, GBC⁺¹⁷, GLF18, HVJ⁺¹⁹, HCH⁺¹⁹, JMNG⁺¹³, KSG⁺¹⁰, KLEH16, KBHT19, KRR16, LCW17a, LCH⁺¹⁴, LUM15, MCLT12, MBC⁺¹⁶, MAC⁺¹⁰, MRE18, NBDM16, OMSC13, nVOH12, RSTP12, RSTS⁺¹⁸, RGM⁺¹¹, RPL16, SPTS15, SFLB16, SSH⁺¹⁴, SCG⁺¹⁹, TIN⁺¹⁴, TSB⁺¹⁹, TBSR13, UFW⁺¹⁸, VLMTEW11, VZJ⁺¹⁷, VFS⁺¹⁵, WCS⁺¹⁸, WGH⁺¹⁶, WKG⁺¹⁶, WDJF12, WC17, WGH⁺¹⁰, WBB⁺¹⁷, WZC13, XFH14, XLS⁺¹⁹, ZBSR15, ZHG15, ATP⁺¹⁵, ABB⁺¹⁴, AdBVA10, ABD⁺¹⁷, BAG⁺¹⁴, BPA12, BAG⁺¹⁷, CFD⁺¹¹, CLJ⁺¹⁹, CFRL10, CG17, CEB⁺¹⁷, DVDB16, EB12, FYC⁺¹⁸, HOD⁺¹⁷, HWZ13, HQB⁺¹⁸, JBB⁺¹⁶, JWGH19, JTG⁺¹¹, KYRMD18].

Ocean

[KK13, KHCH14, KGL⁺¹⁶, LKT17, LKS⁺¹⁶, LAC⁺¹⁹, LGC16, MVL⁺¹⁰, MLS⁺¹⁸, MEM⁺¹⁷, MVT⁺¹⁷, MvdPK⁺¹⁵, MCGF⁺¹¹, NRS16, NLO⁺¹², OCLW11, PvDM⁺¹³, PNR19, PFvO⁺¹⁸, PSNE15, RS16, RBCS16, RS19, RDB⁺¹⁶, RZW11, RWM⁺¹⁴, RKMN⁺¹³, RKTLM18, SSFF12, SSG⁺¹⁷, SDSC12, SHT⁺¹⁷, SGG⁺¹¹, STB⁺¹⁶, SMR⁺¹⁷, SFI⁺¹⁸, SDCF16, SMH⁺¹¹, SHF⁺¹², SSS⁺¹⁹, WMBR13, WBG⁺¹⁶, WGRS⁺¹⁷, YHS⁺¹⁷, YYMN13].

ocean-reef [GLF18]. **oceanic**

[ASK⁺¹¹, BBMS17, BRS⁺¹³, CHS⁺¹⁸, CLFW17, FDS⁺¹⁴, HWZ13, IBPG17, KKH11, KvdPVB13, NMST18, NLHAA⁺¹⁷, PRL18, dGD13, WD15].

oceanica [AFSM17, BRS⁺¹³, CB12, CB19, GPA⁺¹⁴, IOB⁺¹¹, MMGO^{+17b},

THFG16, ZBSR15]. **Oceanogr** [Ano21b]. **Oceanographic**

[GDD⁺¹⁶, HNSM12, NEH⁺¹⁹, WFL⁺¹², CHH⁺¹⁷, Joh10, Tho19, VML⁺¹⁹].

Oceanography [Ano21a, MMC⁺¹⁰, Xen19]. **oceans**

[CL10, HW16, KKH11, NG13, PTS⁺¹⁹, WLL⁺¹¹, XDK⁺¹⁷, BCRC16].

OCPs [ZZW16]. **Odum** [HBR13]. **Off**

[WMBR13, AAIA14a, AAIA14b, FCD12, GFT⁺¹⁴, GRE⁺¹⁶, GAK⁺¹⁹, JAZ⁺¹⁰, JHD⁺¹¹, MQJG13, RPMK17, SKGT17, TAV⁺¹⁰, VGM14, WCJ⁺¹⁷].

offer [MDF⁺¹⁴]. **offset** [CCW⁺¹⁹, HCAF18, SM11b]. **offshore**

[BSA⁺¹⁶, PMA18, WTC⁺¹⁷, dGCB⁺¹¹]. **offspring** [LRY12]. **Oikopleura**

[LTPK⁺¹⁸, LBR⁺¹³, LSK11]. **oil** [FCRW⁺¹⁶]. **Oithona**

[AACS11, SGCI14, VIS⁺¹³, ZTS13]. **Okely** [PHJ12]. **Old** [GBS17].

oligomesotrophic [SPP10]. **oligopeptide** [ALdML⁺¹⁴].

oligopeptide-based [ALdML⁺¹⁴]. **oligotrich** [JB19]. **oligotrophic**

[CPOMA15, GSZL13, HS18, HCH⁺¹⁹, HML⁺¹⁴, JYS18, KP13, KSFT13,

KKH11, LCW17a, MBE⁺¹³, SNM11, SJM11, SBS⁺¹³]. **oligotrophy**

[MFMC⁺¹⁰]. **oliogohaline** [TMH⁺¹⁸]. **Olympia** [Car10]. **omega** [IWF19].

omega-3 [IWF19]. **omega-6** [IWF19]. **Omnivorous** [ŠGN⁺¹⁹]. **omnivory**

[SD10]. **oncaeid** [NTI⁺¹⁵]. **one** [SDS⁺¹¹]. **one-year** [SDS⁺¹¹]. **Onondaga**

[EMH12]. **onset** [KIH⁺¹⁵, SLPM15, TF11, ZZN⁺¹²]. **Ontario**

[BRT⁺¹⁰, RPH⁺¹⁰]. **onto** [LK15]. **Ontogenetic**

[Hir12, HLGA17, IPGP10, WLS⁺¹¹]. **ontogeny** [HBBM19]. **oocysts**

[SSL⁺12]. **oomycetes** [MKW⁺19]. **open** [BSFH10, BVP⁺15, KB15, MRE18]. **open-ocean** [BSFH10]. **opens** [FHS10]. **Optical** [DVC⁺17, HKP⁺16, HE10, JTG⁺11, NRS16, RSN16, RS19, SOH⁺18, WBZ⁺14, AGCA16, ASK⁺11, BDB⁺14, BSG14, BFD⁺11, CDA16, DCRC16, GDCM13, LLH⁺15, MGHS18, OR16, SCQ⁺17, TRD⁺14, USB⁺10, UVGS10, WSTG18]. **Optically** [CMW⁺19, RNT⁺19]. **optics** [EP14, JLRK12]. **Optimal** [XZC⁺16, HV16, HV19, THA17]. **Optimality** [SPMW11, TBHM⁺13]. **Optimality-based** [SPMW11]. **optimization** [SMMF19]. **Orbicella** [Edm15]. **order** [HHS⁺18, SCQ⁺17]. **Oregon** [APP12]. **organ** [PCPZ18]. **Organic** [KLEH16, KWB⁺16, LÁSDC18, NB17, PMY⁺19b, SVLS⁺16, VW17, ALL⁺10a, AHJS15, ÁSNCÁ⁺13, BSCG17, BBLN11, BMBI12, BHD⁺17, BVSM15, BLWV10, CEPPr14, CPPdAR⁺13, CRCGG⁺17, CSÁS⁺10, CÁSO⁺16, CKP⁺15, CRJ⁺14, CTG15, CT18b, CPG⁺10, CDA16, CGT16, CHV⁺17, CCC10, CK12, CK13, CFF⁺17, DFWPk16, DIC⁺18, DTL⁺19, DVC⁺17, DCCB17, DBA16, Dem19, DWDH10, DvOR⁺16, EKS⁺18, EMB12, EBMR12, FUS⁺16, FHS10, FPG11, FHR⁺15, FB12, FLP⁺10, FEC⁺16, GKT⁺15, GJWS14, GJWS16, GMS⁺18, GAM⁺19, GBP⁺12, GdG11, HGG⁺17, HA16, HKP⁺16, HBR⁺14, HEB⁺19, HLG15, HT17a, HLJ12, HEH⁺17, HSTK15, HMH⁺16, HGT⁺18, HDDH⁺17, HMFF10, HMFF12, JMM14, JTH⁺13, JP10, JSK⁺15, KBA⁺12, KZB⁺10, KPW⁺11, KKH11, KHCH14, KWRS13, KBT16, KMC⁺15, KHK⁺19, LTH⁺12, LHSG15, LPO⁺11, LZK18, LTX⁺17, LBR⁺12, MSGS⁺13, MGHS18, MPONC⁺17, MPK⁺13]. **organic** [MKW⁺19, MA18, MMXC15, MBLD15, MBAS⁺17, MCC⁺10, MHH⁺17, MSD⁺14, MBO⁺16, MGSM10, MGJH18, NNE12, NWT⁺19, OALD10, OCB⁺18, OWFS11, OVRJ13, PCO⁺15, PML⁺19, PBL⁺18, PHLSSS19, RRAS17, RR13, RM14, RCH⁺15, RASV⁺17, RCSÁS⁺10, REDW10, RZW11, RHS⁺10, RHDTS⁺11, SLC⁺16, SHSK14, SFFF12, SKK⁺15, SCF⁺15, SCR⁺12, SLP⁺14, SLA⁺15, SEYJ11, SFB12, SFLB16, SBC⁺17, SSC⁺10, SHL⁺18, SYW18, SSS⁺19, TGC⁺10, TLG⁺11, TEZ⁺18, THH⁺13, TAV⁺10, TTV⁺13, TSDF⁺16, TZD⁺15, UFW⁺18, WM12, WDX⁺11, WWC⁺18, WMC⁺15, WCJ⁺15, WSM⁺19, WGH⁺10, WYW⁺10, WZBW⁺11, WDL⁺17, WSTG18, XSAHV13, XZGW17, YHS⁺17, YJO⁺19, ZZY⁺10, ZHN⁺10, ZZAC13, ZCK⁺16, dCGS19, vEG10, JBT11]. **organic-aggregate-associated** [TGC⁺10]. **organic-iron** [JBT11]. **organically** [SMH⁺11]. **organics** [ASSG12]. **organisms** [CHL⁺17, SPMW11]. **organize** [BBMS17]. **organochlorine** [ZZW16]. **orientation** [NMST18]. **origin** [CCV⁺18]. **original** [HZC⁺13]. **origins** [ZKMT⁺13]. **orthophosphate** [IGP⁺12]. **oscillate** [BDU⁺19]. **Oscillation** [MMHT10, SCAB⁺16, WB19, HLJ12, MMHT10]. **Oscillatory** [VPWW10]. **ostracodes** [CF10]. **Ostreococcus** [CLFW17]. **O₃NO₃⁻** [FYVU17]. **other** [SH10b]. **otolith** [GM12]. **otoliths** [MWR17, WJHS18]. **our** [GMMV19]. **outbreaks** [SMF10, SLG10]. **outflow** [PFH⁺17]. **outgassing**

[APB⁺17, SML⁺19]. **output** [CRB⁺17]. **outwelling** [SML⁺19]. **overcoming** [JJ17]. **overestimation** [HCH⁺19]. **overlap** [BL13, TCG⁺17]. **overnight** [SHSK14]. **oversaturation** [TMF⁺14]. **Overwinter** [BPL⁺19a]. **overwintering** [JWGH19, LLL10, SAPI14, WB19]. **oxic** [BKD⁺16, OMB⁺16]. **oxidation** [BPA12, BNW⁺14b, BC10, BK11, CDW⁺16, CMB10, DTL⁺19, FDL17, GFT⁺14, HNHS⁺15, HQB⁺18, NFW13, àNTS13, RSM13, RRB⁺16, RDB⁺18, RETS16, SAP⁺11, TSB⁺19, TMH⁺10, WBZ⁺13, XLS⁺19, ZOB⁺15, Ano10]. **oxidative** [SMC⁺10, TGGZS⁺10]. **oxide** [BSN⁺14, DHW11, SSKdB14, SPSP10, WGC⁺13, XXZ⁺19]. **oxidizer** [NFW13]. **oxidizers** [MBP⁺17, UMHH⁺14]. **oxidizing** [AMMH⁺13, BPA12, JAZ⁺10, MACM11, PWS⁺11, SDCF16, VFME18]. **oxymclines** [KBM⁺14]. **Oxygen** [BC10, BSMC12, CMB10, DMMV15, IR16, JMM14, KTS⁺14, AWK⁺17, BPB⁺17, BLH⁺13, BDU⁺19, BWS⁺14, BLM⁺10, BMB⁺18, CRJ⁺14, CSGW18, CWRX19, CF10, DTFR12, FWFB10, FCD12, GRT⁺14, GLF17, HSLH⁺14, HGD14, HSBA10, HQB⁺18, HBM11, IH18, JHD⁺11, Joh10, KB15, KBM⁺14, KBE⁺17, LL11, LCM⁺12, LRM⁺19, MC16, MMC⁺10, MMN⁺10, NHS⁺12, NCT⁺15, ORC⁺17, QWRJ10, RS16, RLB⁺10, RMNZ12, SWE⁺18, SSB⁺18, SSGB⁺17, Sha10, SHK13, TKB18, TSB⁺19, TMO⁺18, VGM14, VHR⁺11, WBG⁺16, WDCH18, WFK⁺16, WMM18, WCP⁺15, WGCC14, WSB⁺13, YMB⁺18, ZF17, Ano10]. **oxygen-deficient** [WFK⁺16]. **oxygen-depleted** [NCT⁺15]. **oxygenase** [nVOH12]. **oxygenated** [LK14, LZK18, SWM⁺18, TMF⁺14, TMH⁺10]. **oxygenation** [GdVT⁺11, SWM⁺10]. **Oyashio** [IHSS⁺19]. **oyster** [BHW⁺12, BMC⁺16, BGP⁺15, Car10, WHAM15]. **oysters** [PKWS19].

P [ACD10, GRPB⁺17, PHJ12, BMBI12, CAQS16, DKSA19, HSB⁺13, KK13, PFH⁺17, SKJD⁺14, SH10a, THA17, VABMS⁺12, WZC13]. **P-depleted** [DKSA19]. **P-enrichment** [VABMS⁺12]. **P-limitation** [WZC13]. **P**. [HCK11]. **pace** [Clo19]. **Pacific** [BPA12, CPHD15, CEB⁺17, CVS⁺10, DDK10, DBV⁺11, HPCD13, HDP15, HQB⁺18, LWB⁺17, RDB⁺16, SMR⁺17, ATP⁺15, BHW⁺12, BMC⁺16, BCRC16, BBTK⁺16, CRJ⁺14, CJW⁺19, CLJ⁺19, CG17, DTFR12, DSLLL19, DBH⁺16, DvOR⁺16, FMM⁺14, HS18, HLH13, HOD⁺17, HEBS10, HCH⁺19, IHSS⁺19, JKKM13, KEH⁺14, KK13, KBL⁺10, KBVW12, LWE⁺11, LKS⁺16, Man10, MVL⁺10, MMC⁺10, MLL⁺14, MMHT10, NO17, PNR19, RS16, RZW11, RLL⁺10, SSG⁺17, SGG⁺11, STB⁺16, SKK⁺13, SSH⁺14, SDCF16, SSN12, SL10b, SS17, SSS⁺19, UFW⁺18, VGM14, WMM18, WTC⁺17, WRS13, YHS⁺17, YYMN13, dGCB⁺11]. **pack** [PHB⁺10]. **Page** [Ano19a, Ano19d, Ano19e, Ano19f, Ano19g, Ano19h, Ano19i]. **PAHs** [ZZW16]. **paired** [Spi15]. **Palau** [TDM⁺13, WTC⁺17]. **Palearctic** [PTS12]. **paleoclimate** [SRAB10]. **paleoecological** [PDER10]. **paleoisotopic** [PDER10]. **paleolimnology** [FSST11, HML⁺14]. **palifera** [YLH⁺16]. **pallida** [HRPW15]. **pan** [SJB⁺19]. **pan-European** [SJB⁺19]. **Pantanal**

[FMP⁺¹³]. **Paracalanus** [TSK13]. **paradigm** [WFB⁺¹¹]. **Paradox** [TMF⁺¹⁴, ŠSP17]. **Paraiba** [PMP⁺¹⁷]. **paralytic** [BMDC10, MMHT10]. **parameter** [LHLT13]. **Parameterization** [GC16, ZWA⁺¹⁴]. **Parameterizing** [SdlFdlF⁺¹⁰]. **parameters** [KLEH16, LBHS13, MZH15, PvEF12, TW10a]. **parasites** [FWvD⁺¹⁸]. **parasitism** [VP15a]. **Pareto** [SP11]. **partial** [CESC13]. **partially** [HBB⁺¹¹]. **Particle** [OIS10, PHJ12, ASK⁺¹¹, AAC⁺¹⁹, BIM⁺¹⁶, CSJ⁺¹⁴, CGB⁺¹⁸, EP14, HPCD13, KCL⁺¹⁴, KGM14, MAC⁺¹⁰, MVT⁺¹⁷, NMST18, NLM⁺¹², NRS16, PE13, RSN16, SSGM18, TCG⁺¹⁷, USB⁺¹⁰]. **particle-associated** [MVT⁺¹⁷]. **particle-attached** [TCG⁺¹⁷]. **particle-reactive** [CSJ⁺¹⁴]. **particle-tracking** [KGM14]. **particles** [ALL^{+10a}, BIS⁺¹⁰, BVvB⁺¹⁹, DM17, FTC10, GCH⁺¹⁸, HCLS11, JYS18, JTG⁺¹¹, LBNT11, MB10, NLM⁺¹², PDFS14, PE13, PE17, PFJ10, RLC⁺¹¹, RSN16, RDT⁺¹⁴, SKLG10, SCQ⁺¹⁷]. **Particulate** [CHS⁺¹⁸, MLS⁺¹⁸, RBCS16, WLHW13, BA14, BBLN11, BDK⁺¹⁷, CTG15, CT18b, CFF⁺¹⁷, DTPP12, DWDH10, EBMR12, GAH11, GPS15, GLF18, HMFF10, HMFF12, LG16, MMXC15, MBO⁺¹⁶, PFH⁺¹⁷, RZW11, SSFF12, SEYJ11, SYW18, SSS⁺¹⁹, TEZ⁺¹⁸, UVGS10, WM12, WGH⁺¹⁰]. **partition** [OLC18]. **Partitioning** [GKS12, MRB11, WZG⁺¹⁴, BC19, CTA⁺¹⁹, EWB12, FA10, KLM⁺¹⁷, MAB⁺¹⁷, PE16b, TJJ⁺¹⁵]. **parvus** [TSK13]. **passage** [CWHP14]. **passive** [HPL11, SWM⁺¹⁰]. **past** [BPRG⁺¹⁸, RKG⁺¹¹]. **Patagonia** [HPM⁺¹⁰, VBGG⁺¹³]. **Patagonian** [BDB⁺¹⁴, CBP10]. **Patch** [GMJW13, CFD⁺¹⁹, FJBP15]. **patchiness** [BSSR10, DOD10]. **patchy** [CLN⁺¹⁹]. **Paternal** [BAB⁺¹⁶]. **paternity** [SNTK15]. **path** [NTM⁺¹⁰]. **pathogen** [FSBT16]. **pathway** [CKCEP10]. **Pathways** [CFW⁺¹⁴, CGT16, GLKK10, GMMV19, JMJ⁺¹⁹, JSB⁺¹⁴, LTH⁺¹², MBB⁺¹⁸, MMGP⁺¹², RvSM17, RLPL14, WLS⁺¹¹, ZOB⁺¹⁵]. **pattern** [BK13, NBSMN19, WWC⁺¹⁸]. **Patterns** [AWG⁺¹², AMNU16, BTC⁺¹⁹, BWS⁺¹⁴, Clo19, DPM18, LBC⁺¹⁸, RCH⁺¹⁵, RPB17, RNT⁺¹⁹, SBM16, WWS11, ALdML⁺¹⁴, BR17, BRNS18, BM16, CLWD13, FNSS15, GDD⁺¹⁶, HMFB16, HHS⁺¹⁸, IBPG17, JM16, KTRK11, LZR⁺¹⁷, LDL⁺¹⁹, MXWC11, MRE18, OSC14, PE16a, PJUR15, PRL18, dGD13, RSJ⁺¹⁸, RG19, RK13, RAV⁺¹⁷, SNM11, SHSK14, SPP10, SPFP11, SJ11, SKKV11, TW11, TLB⁺¹⁶, TB18, VLDM19, VZJ⁺¹⁷, VW17, WVGB10, WE19, WMT⁺¹², ZHN⁺¹⁰, dGCB⁺¹¹]. **Pb** [SMLC⁺¹⁸]. **PbTx** [KPSW10]. **PbTx-2** [KPSW10]. **PCBs** [CMW⁺¹⁹]. **pCO** [AMB⁺¹¹, BDP⁺¹⁹, BPL^{+19b}, FVSL19, HRPW15, MRH⁺¹⁵, SSU⁺¹⁶, SHF⁺¹¹]. **Peace** [RKWH18]. **peaks** [PFJ10]. **Pearl** [CWRX19, KDGL19]. **peat** [KMC⁺¹⁵]. **peatlands** [MLD⁺¹⁶]. **pectinatus** [HAL17]. **Pedro** [CVS⁺¹⁰]. **Pelagic** [DFK⁺¹⁷, MLCD13, MBLD15, QS19, RLC⁺¹¹, BVvB⁺¹⁹, BSY⁺¹⁶, CMK⁺¹⁰, GGL⁺¹⁵, HBCK10, Hir12, HLGA17, JGR⁺¹⁴, KBA⁺¹⁴, KBM⁺¹⁴, LHLT13, LBR⁺¹³, MDF⁺¹⁴, RSG11, RCV⁺¹⁴, SAS⁺¹¹, SNTK15, SBA⁺¹¹, TW10b, VdSLC⁺¹⁶, VIS⁺¹³, WZG⁺¹⁴, WZBW⁺¹¹, WS13]. **Pelagic-benthic** [MBLD15]. **Pelagophyceae** [KG18, KSWFG13]. **pellet**

[SPR⁺¹⁵, WRS13]. **pellets** [BIM⁺¹⁶, RK13]. **penetration** [LCM⁺¹², SWE⁺¹⁸]. **Peninsula** [RVvdP⁺¹⁷, VMCM⁺¹⁷, CMM⁺¹¹, GAK⁺¹⁹, HVJ⁺¹⁹, MMD18, TLB⁺¹⁶, TSSH19, TAV⁺¹⁰, VCM13, ZCZ⁺¹⁸]. **Perceiving** [GK15]. **perception** [AvSGK18, KGC⁺¹⁶, PJ16]. **perennial** [ARB⁺¹⁹]. **perennially** [SMA15]. **performance** [THFG16]. **Perils** [CJC⁺¹², LGR⁺¹²]. **period** [BS18b, HZC⁺¹³]. **Periodic** [LSH⁺¹⁷, BBLN11]. **periodically** [RRB⁺¹⁶]. **periods** [HEB⁺¹⁹]. **periphyton** [dKNL⁺¹⁵]. **peritidal** [RPB17]. **permafrost** [DMMV15, KMC⁺¹⁵, LVM⁺¹⁰, MW15]. **permanently** [HHM⁺¹⁸, MKLKP16, SSS⁺¹⁶, SPO⁺¹⁸]. **permeable** [AWK⁺¹⁷, BLH⁺¹³, CPG⁺¹⁰, CSME13, DMS⁺¹⁸, GML⁺¹², GCR⁺¹⁰, KGC⁺¹², MHL⁺¹⁶, SSKdB14, SBNC⁺¹⁹]. **peroxide** [DVSV13, VHV10]. **perpetuate** [GHS14]. **persistence** [BMM⁺¹³, CEES14, FSBT16, HT17a, MQP⁺¹⁶, uGH⁺¹¹]. **Persistent** [BH16, DBRB⁺¹⁵, VSP⁺¹¹]. **persistently** [KCM⁺¹⁰]. **perspective** [HPCD13, HBM⁺¹⁵, LWE⁺¹⁹, LBR⁺¹³]. **perspectives** [DSM⁺¹⁸, GMMV19, HW16, HSCM19]. **perturbation** [DLP13]. **pertusa** [LGC13a, LGC13b, MKB⁺¹⁹]. **Peru** [GRE⁺¹⁶, VGM14]. **Perumytilus** [PLS⁺¹⁶]. **Peruvian** [NHS⁺¹²]. **pesticides** [ZZW16]. **pH** [CGP⁺¹⁹, FNSS15, HAL17, ITO⁺¹⁷, KH16, LK15, LRG16, NLHAA⁺¹⁷, SMLC⁺¹⁸, WCS⁺¹⁸, WYL16, XSAM12]. **Phaeocystis** [KBHT19, LG10]. **Phaeodactylum** [CSJ⁺¹⁴, RLSC⁺¹³]. **Phaeodaria** [SBKO18]. **Phagocytosis** [LKF⁺¹⁸]. **Phase** [PT11, dCGS19]. **phases** [GYP⁺¹⁸, XDC⁺¹⁹]. **phenolic** [RLSC⁺¹³]. **phenology** [AJG13, TNI19]. **phenoloxidase** [PDP⁺¹⁰]. **phenotypic** [TB18]. **Philippine** [LYH17]. **phosphatase** [DM17, DDK10, DBV⁺¹¹, GFPSG13, LDY⁺¹⁶, MLS⁺¹⁸]. **Phosphatases** [SBH⁺¹¹]. **Phosphate** [MLK11, BAG⁺¹⁴, BVvB⁺¹⁹, DM17, LDY⁺¹⁶, SHF⁺¹¹, WMBR13]. **phosphate-replete** [DM17]. **Phosphonate** [BWB⁺¹⁰, WKB⁺¹⁰]. **Phosphorus** [KHVS11, LZK18, LBNT11, PHG13, WRH⁺¹⁸, ACC⁺¹⁷, BMW10, BBS⁺¹⁸, BCVAn10, BSA⁺¹⁶, CR11, CBK18, DBV⁺¹¹, FSCB11, FWS⁺¹⁴, FPD⁺¹⁰, GFH13, GBL13, GHS14, HSR⁺¹⁰, JHLK⁺¹⁹, JBLJ12, JLR⁺¹⁷, KBH⁺¹⁹, KFJ13, KHG⁺¹³, KRB⁺¹⁸, LG16, LJ18, MAFCD⁺¹⁸, MKG⁺¹⁵, NHS⁺¹², OWS⁺¹⁷, OALD10, OBNP⁺¹⁰, OSB⁺¹⁵, OVRJ13, PK14, PWF16, RSG11, RAV⁺¹⁷, SWZ⁺¹⁵, SWP11, SWD11, SS19, TK12, TNMV⁺¹⁰, WDMF13, WZC13, XPQ⁺¹⁰]. **phosphorus-limited** [GBL13]. **phosphorus-rich** [FPD⁺¹⁰]. **photic** [HAC⁺¹¹]. **photo** [GC16, HBD⁺¹¹, SGME11]. **photo-acclimatory** [SGME11]. **photo-inactivation** [HBD⁺¹¹]. **photo-physiology** [GC16]. **Photoacclimation** [LAC⁺¹⁹, SLS⁺¹¹]. **photoacclimatization** [PGRR⁺¹⁹]. **Photoadaptation** [MKLKP16, TBHM⁺¹³]. **photochemical** [BVSM15, KBT16, SSC⁺¹⁰, VBG⁺¹³]. **photochemically** [RM14]. **Photodegradation** [KPSW10, TBF⁺¹³]. **Photodissolution** [SMW⁺¹⁸, EMB12]. **Photoinhibition** [MBP⁺¹⁷, AdBVA10, ARW⁺¹⁰, GBR14, HS11, HBB⁺¹¹, LCCF10].

photoinhibition-driven [GBR14]. **photolysis** [KTS⁺14]. **photolytic** [HKP⁺16]. **photon** [RM14]. **photons** [Kir13]. **photoperiod** [SNK12, ŚF19]. **photophysiological** [FMM⁺14, SBC⁺17]. **Photophysiology** [KvdPB18, KBHT19, MRKR⁺14]. **Photoprotection** [KMF10, EHW⁺15, PHB⁺10, TAE⁺18]. **photoprotective** [SCPE15]. **photoreactivity** [OWFS11]. **photoresponse** [SMN⁺15]. **photosynthesis** [BPB⁺17, BWD⁺11, BWD⁺12, HPM⁺10, HBZ12, LLB17, MRC⁺16, PvDM⁺13, RPI⁺12, RSTS⁺18, SBF18]. **Photosynthetic** [MRKR⁺14, CF13a, FRA⁺17, GFH13, HGD14, HXS⁺10, HNZ⁺16, JJ17, LBHS13, RDB⁺16, RKTLM18, SBdB10, SHT⁺17, SSPK⁺12]. **phototrophic** [FDL17]. **Phylogenetic** [Les19, ASSG12, SPP10, YLJ11]. **phylogeny** [LDCT11, NTA14, SASB⁺15]. **phylotypes** [BWD⁺11, BWD⁺12]. **Physical** [BLW15, CMMKH12, CWRX19, DMS⁺18, HVM12, KCH⁺12, KBM⁺14, NAH⁺11, OLF⁺11, RR13, RNG⁺13, WCP⁺15, ZCY⁺15, ZNVF16, BSBK13, FBV11, FSBT16, GRT⁺14, JLR⁺17, KHTO13, KBE⁺17, LDT⁺11, MTH⁺11, QWRJ10, Scu16, SPO⁺18, SSM⁺19]. **Physical-biological** [ZCY⁺15]. **physical-induced** [GRT⁺14]. **Physicochemical** [KEH⁺14, BVC⁺14, RPG13]. **physicochemical** [ZCK⁺16]. **Physiological** [BVC⁺14, LCCF10, WdBJF16, BRNS18, LBHS13, MBHG11, MDE11, NBDM16, PLS⁺16, SBF18, SGRB10, THFG16]. **Physiology** [vHOM⁺19, BRT⁺10, GC16, HTL⁺18, HXS⁺10, KHPIP⁺14, SHF⁺11]. **phytoflagellates** [SMN⁺15]. **phytoplankter** [WKK⁺11]. **Phytoplankton** [ETKL16, HPM⁺10, INF12, IH11, KPV⁺11, KSP⁺12, LTPA17, MVNG11, MvdPK⁺15, OPZ13, PNR19, SRCL⁺13, SSPK⁺12, SBFC18, WRO⁺11, AdBVA10, ADCH18, AJC15, ASA⁺18, ABD⁺17, BSG14, BLW15, BYD19, BDS11, BL13, BMM⁺13, BISZ17, BAG⁺17, BSSR10, BSFH10, Bre14, BVP⁺15, BRS⁺13, BG10b, BCVA_n10, CSÁS⁺10, CL10, CL11, CWF11, CLHL12, CL17, CBS⁺17, Clo18, CHL10, DVC⁺17, DBFL11, DMSHC16, DVDB16, ETKL12, ETKL15, EB12, FBV11, FMGR⁺11, FPP⁺19, FBL15, FLLH18, FMM⁺14, GLMG15, GNWDL19, GC16, GWD⁺16, GGTC⁺18, GBT⁺17, GBD⁺10, GvBBB17, GBB19b, GLF18, HGG⁺17, HS11, HVJ⁺19, HLJ12, HSB⁺13, HSTK15, HXS⁺10, HVD⁺18, HKS⁺15, IHSS⁺19, IGP⁺12, JM16, KWRS13, KTK⁺13, KLEH16, KMP⁺11, KWGS18, KCB⁺17, KTL17, KvdPVB13, KvdPB18, LRM17, Lat14, LCM⁺17, LF16, LF17b, LWB⁺17, LAC⁺19, LFC17, LCZ⁺19, LUM15, LDT⁺11, MCH12]. **phytoplankton** [MCLT12, MCLT15, MVL⁺10, MRB11, MPAS17, MBE⁺13, MDS⁺10, MSD⁺14, MKLKP16, MMD15, MRE18, OWS⁺17, OCLW11, OFGF12, PJ16, PvDM⁺13, PKB⁺17, PCM⁺16, RPMK17, RS19, RCSÁS⁺10, RVvdP⁺17, RKMN⁺13, RGM⁺11, SLU11, SASB⁺15, SS16, SNvD⁺10, SLK⁺10, SWD⁺14, SAPI14, SYdTP⁺11, SLA⁺18, STB⁺16, SGA⁺17, SNK12, SRM⁺18, SS12a, SPGRP⁺17, SNM⁺15, SMH⁺11, SHF⁺12, SSYT14, SSGL19, Tad10, TF11, TFLS14, TBSR13, VBGG⁺13, VMCM⁺17, WYL16, WCJ⁺15, WSUC⁺18, WCG⁺17, XPQ⁺10, XSAM12, XFH14, YP18, ZD18]. **phytoplankton-bacteria** [DMSHC16]. **phytoplankton-mass** [CL11].

phytoplankton-zooplankton [BCVAn10]. **PIC** [FCC11]. **pico** [MBO⁺16]. **pico-size** [MBO⁺16]. **picocyanobacterial** [GRSD⁺14]. **picoeukaryotes** [RDB⁺16]. **picoeukaryotic** [PBA⁺15]. **picophytoplankton** [CLWD13, CFVU11, SBF18, SL10b]. **picoplankton** [CBFK19, MPSA17]. **pigment** [VvO11]. **pigmentation** [BSH16]. **pigmented** [DKSA19]. **pigments** [HKS⁺15, MBLD15]. **pike** [FLM⁺19, MF19]. **pipes** [CRCGG⁺17, WE19]. **piscivorous** [NZH⁺11]. **pistillata** [HRG⁺15, SIW⁺11]. **pit** [MAD⁺15]. **plagiosum** [WLS⁺11]. **Plain** [vOSH12, DRP⁺17]. **Plains** [FPD⁺10, FLP⁺10, FVSL19, OWFS11]. **planar** [PFJ10]. **planktivorous** [GMJW13, MG14]. **Plankton** [SJ11, AdGAD14, ASW⁺19, APF⁺18, CCK⁺12, CPG⁺10, FTC10, GRGL⁺13, GBB⁺19a, KVA18, LYH17, MFMC⁺10, MAV⁺13, MLL⁺14, PSG⁺16, PTS⁺19, Rie15, RPG13, SKJD⁺14, SPHVA19, SKKV11, TIF⁺15, TBLG14, VP15a, VMF⁺11]. **plankton-derived** [CPG⁺10]. **planktonic** [AvSGK18, DdD⁺10, DdG10, FPSL18, vSGAK17, HJMD13, LPLH18, MTK⁺17, NG13, PDER10, dGD13, RSTP12, RBI⁺10, SD10, SPMW11, SBA⁺11, TIF⁺15, ZS18]. **Planktothrix** [GPH⁺13, VSP⁺11]. **plant** [CFD⁺19, GAM⁺19, GK10, GK14, GN16, JMJ⁺19, KGvdH16, MBK⁺11, MACM11, PCPZ18, SJ11, VCPC⁺16]. **plant-influenced** [MACM11]. **plant-mediated** [JMJ⁺19]. **plant-microbe** [VCPC⁺16]. **Plants** [CFD⁺19, GN16, SSP⁺18]. **Plasticity** [SSP⁺18, THA17, BTJ⁺12, PGRR⁺19, SvKP⁺18, TAE⁺18]. **plastidic** [FPP⁺19]. **plastids** [JB19]. **Plateau** [LCW⁺17b, ZZY⁺10, MNW⁺19, SHL⁺18]. **platform** [GPH⁺13, GLF17]. **play** [DKSA19]. **Pleistocene** [MXWC11]. **Pleistocene-driven** [MXWC11]. **Plesné** [KKP⁺19]. **plume** [CSS⁺16, GBD⁺10, GCH⁺12, HDK⁺12, HCC⁺13, LWWC⁺16, PHPH⁺16, WFR10, WDL⁺17]. **plumes** [MAF19]. **plumosus** [SPPS10]. **Pluses** [GWD⁺16]. **Plußsee** [RMNZ12]. **POC** [FCC11]. **Pocillopora** [WHD10]. **pockmarks** [BSSW11, HSP⁺16, WBS⁺10]. **Poeobius** [CHS⁺18]. **Poincaré** [BBR12, CTH15]. **point** [CESC13, LHS19, PVLMT⁺16, VLMTEW11]. **point-source** [PVLMT⁺16, VLMTEW11]. **polar** [BHS⁺16, BHB⁺12, DHG⁺17, LLB17, MKLKP16]. **pollen** [MBK⁺11, MPK⁺13]. **pollution** [BJDMH10, FPD⁺10]. **polonium** [CSJ⁺14]. **polyamines** [KHP18, MWBM19]. **polychaete** [BBR⁺14, CHS⁺18, CH11]. **polychaetes** [HHA18]. **polychlorinated** [CMW⁺19]. **Polycyclic** [ZZW16, GPS15]. **polykrikoides** [JLG10, JLG11]. **polymeric** [MKW⁺19, TMK⁺13]. **polymetallic** [SLBH⁺19]. **polymictic** [OSB⁺15]. **polymorpha** [KKS10]. **Polynya** [SSPK⁺12]. **polynyas** [PKB⁺17]. **Polyphosphate** [DBH⁺16, OBNP⁺10, MLS⁺18]. **polyunsaturated** [IWF19]. **POM** [LRG16, MBO⁺16]. **pond** [MCCA18, MDF⁺14, VZJ⁺17, vBBM⁺19]. **ponds** [DBSP⁺16, LVM⁺10, MM11, OCB⁺18, SGS18]. **pool** [SM10, SM11b, SKK⁺13, SC10, Tho19, WTC⁺17]. **pool-riffle-pool** [SC10]. **pools** [BBB⁺14, LWS⁺17, SWZ⁺15]. **poor** [OSB⁺15]. **Population**

[BBS12, Car10, MGT15, AA18, BRM⁺19, CNL⁺15, CRB⁺17, Edm15, KTRK11, KSY11, KTL17, MCWB10, MTK⁺17, NG13, PDP⁺10, SMF10, SGG⁺11, SVG⁺18, WKK⁺11, ZKL⁺14]. **populations** [BMDC10, CGP⁺19, CBFK19, CR16, GRSD⁺14, HLSW⁺15, KP13, MACM11, MBP⁺17, MMJ⁺12, OMSC13, PvDM⁺13, PWF18, SPFP11, TDF⁺17, WB19]. **Porcupine** [vOSH12]. **Pore** [FEW⁺14, AFG⁺16, AES11, RPI⁺12, SCR⁺12, SBdB10, TMH⁺18, YKT⁺15, ZZAC13]. **Pore-water** [FEW⁺14, AFG⁺16, AES11, RPI⁺12, SCR⁺12, SBdB10, TMH⁺18, YKT⁺15, ZZAC13]. **porewater** [VPWW10]. **Porites** [CHH⁺17, Edm11, LCBC16, MPSA17, TLB⁺16, TEGL11]. **pose** [GM12]. **poses** [JTH⁺11]. **Posidonia** [AFSM17, CB12, CB19, GPA⁺14, HCK11, IOB⁺11, MMGO⁺17b]. **Possible** [MNW⁺19, XSAM12, MCC⁺10, WGH⁺16]. **postglacial** [MXWC11]. **Potential** [AAC⁺19, GGL⁺18, HCH⁺19, RETS16, TMH⁺10, ARB⁺19, BCRC16, BWS⁺14, DJD⁺14, DBC⁺13, HST⁺14, HVM12, HNL⁺13, KP13, KBA⁺14, KZR⁺16, KNL10, KWF⁺17, KLM⁺17, Lat14, LSHK11, MDF⁺14, MAFCD⁺18, PRL18, SSG⁺17, WYL16, WCV⁺12, YLH⁺16, uGH⁺11, vdJFS⁺18]. **potentially** [GRPB⁺17]. **potentials** [RSJ⁺18]. **pothole** [ZZAC13]. **prairie** [OWFS11, WWS11, ZZAC13]. **pre** [GPH⁺13]. **pre-alpine** [GPH⁺13]. **prealpine** [SPFP11]. **precipitation** [CBK18, DMB⁺12, KWGN⁺10, SRA10]. **precision** [SSC⁺10]. **preconditioning** [GGTC⁺18]. **Predation** [KKHP14, KMH⁺17, LRY12, PKWS19, vSGAK17, HHA18, HBCK10, LBS17, Rie15, SBFB17, ŠSP17, VMC⁺13, ZEXH15]. **Predator** [DML17, BMPF19, BSH16, GMD11, HJMD13, KMH⁺17, LWE⁺19, MAB⁺17, MWSB18, SGCI14, SBDS⁺15, SD10, SBA⁺11, ŠSP17, VMC⁺13, WLW17]. **predator-derived** [BMPF19]. **predator-prey** [HJMD13, SD10]. **predators** [CFRL10, DRE⁺10, KM10, Meh10, SBFC18, TIS⁺13]. **predatory** [BBB⁺17, CMG⁺15, JCS⁺18]. **predict** [KIH⁺15, MA18, PCPZ18]. **predictability** [KSP⁺12, PHL⁺18]. **predicted** [KPV⁺11, NBDM16]. **Predicting** [MZH15, WLO⁺19, ZHG15, ML19]. **Prediction** [TPM⁺14]. **predictions** [BMW10, MD10, WS18]. **predictive** [SRAB10, SRA10]. **predictors** [BPGE13]. **predicts** [GGC⁺14, WAB⁺17]. **preference** [RBRH10]. **preferential** [NMST18]. **preindustrial** [OSHS19]. **presence** [BC19, FLLH18, KCB⁺17, SMLC⁺18]. **present** [CGP⁺19, RKG⁺11]. **presented** [Bre10]. **preservation** [NTM⁺10]. **pressure** [CESC13, LBS17, MMGO⁺17a, MMGO⁺17b, ZMS⁺18]. **pressures** [BDC⁺14]. **Prevalence** [YLH⁺16]. **prevent** [PSH⁺11]. **Prey** [AvSGK18, BBMS17, CBP10, DPLG⁺19, KGC⁺16, MF19, SGCC16, DML17, GMD11, GNWDL19, GBK⁺18, GK15, HJMD13, HBBM19, HPS⁺10a, LSK11, MG14, Meh10, MWSB18, NSO19, SGCI14, SBDS⁺15, ŠGH⁺18, SD10]. **Primary** [SHT⁺17, SFLQ⁺19, WSUC⁺18, AGMR14, BRNS18, BPRG⁺18, CvHB⁺18, CB19, DRE⁺10, DdG10, EM13, FPGR⁺13, GJWS14, GJWS16, GSB⁺17,

HYK⁺¹⁵, HC10, HAA⁺¹⁹, KEH⁺¹⁴, KTK⁺¹³, LFB⁺¹⁰, LMR14, MRB11, OY10, QS19, SLA⁺¹⁵, SKK⁺¹³, SSM⁺¹⁹, WHL⁺¹¹, WTC⁺¹⁷, WTN⁺¹⁵].
prime [dCGS19]. **Priming** [HA16, CKP⁺¹⁵]. **Prince** [VML⁺¹⁹]. **principal** [KFP⁺¹⁸]. **principles** [HESU13]. **Print** [BCF⁺¹⁷]. **Prionace** [VdSLC⁺¹⁶].
prism [BGP⁺¹⁵]. **prized** [TDF⁺¹⁷]. **probabilistic** [BMN16].
probabilistic-survey [BMN16]. **probability** [HPS^{+10a}]. **Proboscia** [MEM⁺¹⁷]. **process** [DHW11, SOM17]. **process-based** [SOM17]. **Processes** [ADS⁺¹⁷, OrIA10, PHJ12, Ano21a, BK11, Clo19, DJS18, GSG⁺¹⁷, HHW⁺¹⁹, HSP⁺¹⁶, HZC⁺¹³, JKKM13, KBH⁺¹⁹, LFB⁺¹⁰, MDB19, MHA⁺¹⁸, MBH⁺¹⁵, MT11, NO17, OLF⁺¹¹, SLHA19, Scu16, TBSL17, VSdG17, WSB⁺¹³].
processing [ASR⁺¹⁷, GBP⁺¹², HJB⁺¹², MM11, MAS⁺¹⁶, OEMB10].
processors [SBM⁺¹⁵]. **Prochlorococcus** [BCRC16, CGL⁺¹⁶, DNH⁺¹⁸, GRRA⁺¹⁷, HS18]. **produced** [BSMC12, FPSL18, KLEH16, KGL⁺¹⁶, VLDM19]. **producers** [GSB⁺¹⁷, KTK⁺¹³, SSM⁺¹⁹, WSUC⁺¹⁸]. **producing** [HHW⁺¹⁹, HLSW⁺¹⁵]. **Production** [CSÁS⁺¹⁰, HT17a, KNL10, MSD⁺¹⁴, RCSÁS⁺¹⁰, WRB⁺¹⁹, ARW⁺¹⁰, AGMR14, BA14, BRNS18, BWB⁺¹⁰, CB19, CJWS15, CFF⁺¹⁷, DHW11, DML17, DVSV13, DHK11, DdG10, EM13, ESMS13, FBV11, FPGR⁺¹³, FYT⁺¹², GRGL⁺¹³, GJWS14, GJWS16, GMS⁺¹⁸, GCH⁺¹², HBD⁺¹⁶, HC10, HLH13, HAA⁺¹⁹, HEBS10, HCAF18, HCC⁺¹³, HML⁺¹⁴, JTH⁺¹³, JBPM15, JP10, KEH⁺¹⁴, KKH11, KTS⁺¹⁴, LEK⁺¹⁸, LRY12, LTPA17, LFB⁺¹⁰, LM12, LMR14, MTT17, MBTK18, ML19, MCC⁺¹⁰, MRB11, MW15, MQJG13, NTK⁺¹⁸, OEMB10, OPZ13, PD11, PWF18, QS19, RCH⁺¹⁵, RGG⁺¹⁰, SLC⁺¹⁶, SPS19, SBT⁺¹⁹, SLA⁺¹⁵, SBDS⁺¹⁵, SPTS15, SKK⁺¹³, SFLQ⁺¹⁹, SSYT14, SHF⁺¹¹, SCG⁺¹⁹, TST⁺¹⁹, VHV10, WCC⁺¹⁷, WKB⁺¹⁰, WWS11, WCG⁺¹⁷, WDL⁺¹⁷, YYMN13, ZTS13, ZMS⁺¹⁸, dBWL⁺¹³]. **productive** [BCC⁺¹², GHS14, JHD⁺¹¹, SFLB16]. **Productivity** [WCJ16, BPRG⁺¹⁸, BAG⁺¹⁷, CvHB⁺¹⁸, DBSP⁺¹⁶, DTM18, GWD⁺¹⁶, HYK⁺¹⁵, HVJ⁺¹⁹, HCK11, KHH19, LDT⁺¹¹, MVL⁺¹⁰, OY10, PH13, RASD10, RDB⁺¹⁶, RAV⁺¹⁷, SHSK14, SCF⁺¹⁵, SGJB14, SAH⁺¹⁹, SHT⁺¹⁷, SHD⁺¹¹, SS12a, SH11, Tad10, VCM13, VB17, WS18, WLO⁺¹⁹, WHL⁺¹¹, WAB⁺¹⁷, WTC⁺¹⁷, WTN⁺¹⁵]. **products** [BB11]. **profile** [PMP⁺¹⁷, RLSC⁺¹³, SGME11]. **profiles** [AES11, RLB⁺¹⁰, RHSD⁺¹⁰, YKT⁺¹⁵]. **profiling** [HGD14, HCK14, SGG⁺¹¹, TGG⁺¹¹, VLJ⁺¹⁰]. **proglacial** [FHR⁺¹⁵].
projections [Edm15]. **prokaryotes** [MSD⁺¹⁴]. **prokaryotic** [ORC⁺¹⁷, SKKV11, TFLS14, YYMN13]. **prolifera** [HZC⁺¹³, ZXN⁺¹¹].
prolong [LWS⁺¹⁷]. **prolonged** [BHM⁺¹⁷]. **promising** [SW11]. **promote** [KWM⁺¹⁹, PBV16, RCIB14]. **promotes** [SSP17]. **promoting** [SK19].
pronounced [ZHN⁺¹⁰]. **Propagule** [PBV16, BDC⁺¹⁴]. **propagules** [TDS⁺¹⁰]. **properties** [AGCA16, BDB⁺¹⁴, BSG14, BGP⁺¹⁵, CDA16, DVC⁺¹⁷, HKP⁺¹⁶, HE10, JPH⁺¹⁸, LdlSB⁺¹², LLH⁺¹⁵, MTH⁺¹¹, PE13, SCQ⁺¹⁷, USB⁺¹⁰, UVGS10, WSTG18, YKBJL12]. **protactinium** [CSJ⁺¹⁴].

protect [SBFC18]. **protected** [GBMG12]. **protection** [SHM⁺¹⁹, SGVR16]. **protein** [AWG⁺¹², MRKR⁺¹⁴, nVOH12, SZH⁺¹⁰, SBFB17]. **proteins** [NTM⁺¹⁰]. **proteobacteria** [FYT⁺¹²]. **Proteomic** [UCOG16, DWDH10]. **proteomics** [NTM⁺¹⁰]. **protist** [PCM⁺¹⁶]. **protistan** [CVS⁺¹⁰, HMD11, MMD15, MMD18, ŠGN⁺¹⁹]. **protists** [BSB⁺¹⁰, DLBF17, GRPB⁺¹⁷, HJMD13, WOC⁺¹⁸]. **protons** [LK15]. **protozoan** [GRDPL14]. **provenance** [ZMWM11]. **provide** [BJDMH10, FWvD⁺¹⁸, KGRV18, PCJK13, WDH⁺¹⁷]. **provides** [FGBS⁺¹⁸, WS18]. **province** [JHW⁺¹⁹]. **Proxies** [BA14, WZC13, ZKMT⁺¹³]. **proxy** [TRD⁺¹⁴, WYL16]. **Prydz** [FYC⁺¹⁸]. **Prymnesiophyceae** [KS13, LG10]. **prymnesiophyte** [BSCC15]. **Pseudo** [LBHS13, SHF⁺¹¹]. **Pseudo-nitzschia** [LBHS13, SHF⁺¹¹]. **Pseudocalanus** [TSK13]. **Pseudodiaptomus** [VIS⁺¹³]. **Pseudomonas** [FYT⁺¹²]. **pseudonana** [FAF⁺¹², MEM⁺¹⁷, SLC⁺¹⁶, Sch19, SLH⁺¹⁵]. **pteropod** [TSSH19]. **Publications** [How15b]. **Puget** [KT13, UMHH⁺¹⁴]. **pulex** [LLL10, SOM⁺¹⁵]. **pulse** [EOM16, MMPSB14]. **pulse-chase** [EOM16, MMPSB14]. **pulsed** [OHKC⁺¹²]. **pulses** [Dem19]. **pump** [ALL^{+10a}, HLFM⁺¹⁰, OSB⁺¹⁵, SCR⁺¹², VGJ17]. **pumping** [FEW⁺¹⁴, XDC⁺¹⁹]. **purity** [GDCM13]. **purpuratus** [PLS⁺¹⁶]. **putative** [HCH⁺¹⁹]. **puzzles** [LSDW18]. **pyriferia** [DPM18, MRB11, PMLC⁺¹⁰, RCH⁺¹⁵, RMDK10, RDZ⁺¹³]. **pyrosomes** [DSLLL19].

Qiandaohu [ZWL⁺¹⁴]. **Qinghai** [MNW⁺¹⁹]. **quadrat** [LAM12]. **quadrat-level** [LAM12]. **quagga** [RAV⁺¹⁷]. **qualitative** [BRS18]. **quality** [Ano19c, BH13, BMPF19, BISZ17, BGB⁺¹⁴, Clo19, CFF⁺¹⁷, FGBS⁺¹⁸, FPD⁺¹⁰, FDB⁺¹⁵, GBB⁺¹⁸, HEB⁺¹⁹, JC14, MBK⁺¹¹, MTEM15, MW15, PMP⁺¹⁷, PMY^{+19b}, PvEF12, PWF18, RWM⁺¹⁹, SCL⁺¹⁹, VABMS⁺¹², WL18, WCM19, WDH⁺¹⁷, WCG⁺¹⁷, ZHG15]. **Quantification** [BHC14, BPA12, CMW⁺¹⁹, HSBA10, RMH⁺¹⁷]. **quantified** [BFD⁺¹¹]. **Quantifying** [AES11, BYD19, HBR⁺¹⁴, JTH⁺¹³, KGC⁺¹², KPP⁺¹⁸, RPMK17, TSDF⁺¹⁶, TMO⁺¹⁸, YKBJL12, DHW11, KYRMD18]. **Quantitative** [VSP⁺¹¹, BBTk⁺¹⁶]. **Quantity** [CFF⁺¹⁷, PMY^{+19b}, ŠF19, VABMS⁺¹²]. **quantum** [EMB12, KBT16]. **quarter** [Edm15]. **quarter-century** [Edm15]. **quartet** [HGvB⁺¹³]. **Questioning** [WLO⁺¹⁹]. **questions** [GMMV19]. **Quintana** [YMB⁺¹⁸]. **quotas** [TNMV⁺¹⁰].

Ra [HGvB⁺¹³, LKLH10, SBNC⁺¹⁹]. **Radiance** [SGH12]. **radiant** [Kir13]. **Radiation** [FSST11, BSH16, BCVAⁿ10, CRS⁺¹⁷, EHW⁺¹⁵, FOT⁺¹⁵, HS11, HVJ⁺¹⁹, HBB⁺¹¹, HKS⁺¹⁵, KMF10, RWF⁺¹², SEYJ11, SMC⁺¹⁰, VMF⁺¹¹, VABMS⁺¹², WFB⁺¹¹]. **radiation-induced** [HS11, SMC⁺¹⁰]. **radiative** [HE10]. **radiatively** [Aus19]. **Radiocarbon** [DKK⁺¹⁴, ZMWM11, KWB⁺¹⁶, SKK⁺¹⁵]. **radionuclides** [CSJ⁺¹⁴].

radium [BTH⁺16, HGvB⁺13]. **radon** [DB11, KDGL19, WSM⁺19, WGC⁺13]. **radon-222** [DB11, KDGL19]. **rafts** [uGH⁺11, vHOM⁺19]. **rain** [CH11, OBT⁺11]. **rainfall** [CTG15, CT18b]. **rainforest** [BBLN11]. **range** [SES18]. **ranging** [KYG⁺12]. **Rapid** [BVSR⁺15, FDB⁺15, JLG11, OEMB10, PDP⁺10, PHB⁺10, BDC⁺14]. **rapidly** [SCP⁺16]. **rare** [LZR⁺17, LCW⁺17b, SJM11]. **raschii** [BPW⁺19, CTA⁺19]. **Rate** [EMB12, BYD19, CL11, CH11, ETKL12, Fie13, HST⁺14, HBD⁺11, KGT12, SDS⁺11, WCI⁺14]. **Rates** [CGT16, MBBG⁺12, SBS⁺13, AES11, AACs11, AvSGK18, AGMR14, AA18, BPA12, BAA⁺13, CB12, CJW⁺19, DHW11, FRA⁺17, FWWF18, GLKK10, GMMV19, GSPM13, GHS14, HH14, HRG⁺15, KRB⁺18, KTL17, Lat14, LBHS13, LFL17, MDE11, MMD18, MQJG13, NFW13, RN14, SGCI14, SDCF16, Tad10, TDS⁺10, WC17, WRH⁺17, ZTS13]. **rather** [DPLG⁺19, PKB⁺17, SGVR16, WYL16]. **ratio** [BRR⁺13, BD15, JM16, THA17, YJO⁺19, Joh10]. **ratios** [AHD⁺18, HBCK10, KK13, LRM17, MGW⁺13, MZB⁺15, MQJG13, OSB⁺15, SGCI14, UA10, WDMF13, WC17, WGCC14, WLHW13]. **Reach** [RAB⁺17]. **Reach-scale** [RAB⁺17]. **reaches** [ZZW16]. **Reaching** [LHS19]. **reaction** [GBK⁺18, PZHD18, ZKL⁺14]. **reactive** [CSJ⁺14, HQB⁺18]. **reactivity** [IR16]. **reactors** [CRCGG⁺17, WE19]. **reaeration** [HSBA10]. **real** [Joh10, SDH⁺14]. **Realizing** [KWF⁺17]. **really** [BB10]. **reassessment** [SL10b]. **recolonization** [MXWC11]. **Reconciling** [KTL17]. **reconfiguration** [LN11]. **reconsidered** [TMF⁺14]. **Reconstructing** [GdG11, SSH⁺16, VSdG17, GM12]. **reconstructions** [CSGW18]. **record** [ACW⁺18, MWR17]. **recorded** [JAS⁺15, RK13]. **recorder** [TIF⁺15]. **records** [BBB⁺17, LYL⁺17, Sha10, WCM19]. **Recovering** [LFL17].

Recovery [MJJMM17, SVG⁺18, AMQ⁺11, AEH19, MACM11, WRWPG19, Ano21c].

Recruitment [MKBSK19, MSK⁺17, MFL11, CGP⁺19, FJBP15, HAL17, LCS⁺19, MFM⁺12, TCFP19, WAB⁺17, WDH⁺17, WMT⁺12, ZEXH15].

recurrence [GGPM⁺10]. **recurrent** [SS12b, SS12c]. **recurring** [SWZ⁺15].

recycling [GHS14, LZK18, REE⁺12, VLJ⁺10, WGRS⁺17]. **Red** [MM11, HST⁺14, LKLH10, OLF⁺11, SW14, CvHB⁺18, WMP⁺19]. **red-tides** [LKLH10]. **Redfield** [Joh10]. **redistribution** [CTG15, KYR⁺12]. **redox** [EO13, HHM⁺18, SWD11, SBH⁺11]. **redox-gradient** [SBH⁺11]. **redox-stratified** [HHM⁺18]. **reduce** [KKS10, PSH⁺11, WHL⁺11].

Reduced [PRL18, PHLSSS19, MMN⁺10, SMH⁺11]. **reduces** [BTJ⁺12, HRG⁺15, KvdPVB13]. **reduction** [BSA⁺16, DSS⁺11, JP10, KJG10, LTH⁺12, MC16, MAS⁺16, RRB⁺16, RDB⁺18, TG17, WZG⁺14, ZMS⁺18]. **reductions** [SKV⁺19]. **Reef** [UA10, BGP⁺15, CPPdAR⁺13, CESC13, CESC14, CRS⁺17, Edm11, ELJ⁺16, FZL⁺14, FDH⁺14, GFPSG13, GJR⁺19, GSZL13, GLF17, GLF18, HGT⁺18, HCS11, IPGP10, JLRK12, KCH⁺12, KTH⁺19, LSD18, MRB11, MDS⁺10, NLHAA⁺17, OBL⁺19, PGRR⁺19, PCD⁺19, PJFJ⁺15, RPI⁺12, RCH⁺15,

RDC⁺¹⁹, RMK⁺¹⁶, SLC18, SPTS15, SHD⁺¹¹, TDM⁺¹³, WGDA19, WHD10, WDH⁺¹⁷, WFL⁺¹², WLHW13, YLH⁺¹⁶, BWS10, CUW11, LÁSDC18, MLC13, RGG⁺¹⁰. **reef-building** [CRS⁺¹⁷, ELJ⁺¹⁶, GFPSG13, JLRK12, PGR⁺¹⁹, YLH⁺¹⁶]. **reef-scale** [RCH⁺¹⁵]. **reefs** [GDD⁺¹⁶, KYC⁺¹⁵, LGC13a, LGC13b, Man10, RDP⁺¹⁷, YKT⁺¹⁵]. **reflect** [PHDH14, SWP11]. **reflectance** [SW14]. **reflects** [SBvH⁺¹⁵]. **refuge** [LL11]. **refugial** [MXWC11]. **regenerated** [XLS⁺¹⁹]. **regeneration** [BSR⁺¹⁷, CMM⁺¹¹, MGL⁺¹⁶, NSV⁺¹⁴]. **regime** [AP12, GMGM⁺¹³, HNSM12, PCJK13, SGCC16, VLWV14, WVV⁺¹¹]. **regimes** [ASK⁺¹¹, BHG⁺¹⁸, CZB⁺¹⁸, LS15, SAH⁺¹⁹, SBBNM14, SBB⁺¹⁸, TBHM⁺¹³]. **region** [BSB⁺¹⁰, CMM⁺¹¹, GLI⁺¹⁵, HEBS10, IHSS⁺¹⁹, MRH⁺¹⁵, RDT⁺¹⁴, STC⁺¹¹, SSS⁺¹⁹, TSC⁺¹⁹, ZHG15]. **Regional** [ACW⁺¹⁸, BRNS18, FWS⁺¹⁴, MGJH18, SWCL12, SLP⁺¹⁴, WAB⁺¹⁷, FWO⁺¹⁸, HHHT19, LSHK11, MRSS12, MHPW18]. **Regional-scale** [SWCL12, SLP⁺¹⁴, HHHT19]. **regions** [KSP⁺¹², RDB⁺¹⁶, VPG⁺¹⁹]. **regression** [MA18]. **regressions** [WS18]. **Regular** [SS16]. **regulate** [MSM⁺¹⁷, WCJ16]. **regulated** [DBSP⁺¹⁶]. **regulates** [GNWDL19, KKB⁺¹⁸]. **regulating** [PCF14, RWF⁺¹²]. **Regulation** [AWK⁺¹⁷, BLWV10, BBS12, DDK10, MMG16, RKTLM18, TST⁺¹⁹, WGJ⁺¹⁹]. **regulations** [LTX⁺¹⁷]. **rejection** [LSK11]. **Rejoinder** [LGR⁺¹²]. **related** [AWG⁺¹², CH11, DCCB17, DMB⁺¹², GOD⁺¹⁸, KMC⁺¹⁵, LRG16, SGVR16, SZH⁺¹⁰, TGC⁺¹⁰, VLMTEW11]. **relates** [GAM⁺¹⁹, HLG17]. **Relating** [SWD11]. **Relation** [KSG⁺¹⁰, LLH⁺¹⁵, MSK⁺¹⁷, BAG⁺¹⁴, BSH16, HTL⁺¹⁸, HKS⁺¹⁵, LTPA17, MvdPK⁺¹⁵, MRE18, OY10, RKMN⁺¹³, SDS⁺¹¹]. **Relations** [BL13].

Relationship [BHB⁺¹², CL11, ETI⁺¹⁶, JM16, LKLH10, SBK18, VPC10, YP18].

Relationships [CL10, CJC⁺¹², FWS⁺¹⁴, KGL⁺¹⁶, LGR⁺¹², LSDW18, RSN16, SPTS15, SSFR19, SLBNG11, TCFP19]. **Relative** [BBT⁺¹⁰, HQB⁺¹⁸, AAIA14a, AAIA14b, BDS11, LBC⁺¹⁸, MMHT10, MAS⁺¹⁶, SSYT14, VSdG17]. **relaxation** [MFM⁺¹²]. **release** [CHV⁺¹⁷, HFP10, SRCL⁺¹³, SFLQ⁺¹⁹, WBG⁺¹⁶, WFL⁺¹²]. **released** [HCAF18]. **relevance** [IWF19]. **relevant** [AHJS15, SM10]. **relieve** [SBH⁺¹¹]. **rely** [FEC⁺¹⁶]. **remains** [VHR⁺¹¹]. **Remineralization** [BIS⁺¹⁰, PPPA14, BIM⁺¹⁶, BK11, HA16, JMM14, SSGM18, TNK⁺¹⁴].

Remote [GMGM⁺¹³, BPRG⁺¹⁸, KCH⁺¹², SBM⁺¹⁵]. **Removal** [DMS⁺¹⁸, HSP⁺¹⁶, LZC⁺¹⁴, ACC⁺¹⁷, CGB⁺¹⁸, FDB⁺¹⁵, HCF⁺¹⁰, HCK14, PPPA14, VB17]. **removes** [LTPK⁺¹⁸]. **renewal** [HRN11, JMM14, WP14].

reniformis [ETI⁺¹⁶, SWM⁺¹⁰]. **Reorganization** [RPH⁺¹⁰]. **repair** [HBD⁺¹¹, SSPK⁺¹²]. **repeated** [UFW⁺¹⁸]. **replete** [DM17, FDBW16, LDY⁺¹⁶]. **Reply** [KGC⁺¹⁶, ACC⁺¹⁹, CL11]. **represent** [WRH⁺¹⁷]. **representation** [SBF18, TBLG14]. **representative** [NMST18]. **representing** [GRRA⁺¹⁷, MF19]. **represents** [JBT11]. **reproduced**

[LEN⁺15]. **reproducibility** [PCW19]. **reproduction** [BPW⁺19, HRPW15, SGVR16]. **reproductive** [CRB⁺17, HP19, MAC⁺10, MBHG11, PCF14]. **Republic** [KKP⁺19]. **requirement** [HVD⁺18, TW10a]. **requirements** [AMMH⁺13, SMH⁺11]. **Research** [MKBSK19, HSCM19, SCL⁺19, SOO⁺17, SSFR19]. **reservoir** [BSN⁺14, BMN16, BBS12, DFWPK16, DHW11, DHH15, DPSW16, ILPL13, KGRV18, OIS10, PHJ12, ŠNZ⁺14, WMI⁺17, XFLM14, ZWL⁺14, RBY⁺17]. **reservoirs** [CFW⁺14, GHS14, HVM⁺18, MRSS12, RQC⁺15]. **residence** [BGB⁺14, CF14, SHSK14]. **residency** [FC11]. **resident** [KMH⁺17]. **Residual** [NI10]. **Resilience** [BJF18, JCS⁺18, SBdB10, WHR18, GDD⁺16, KGRV18, KJKS18]. **resistance** [BMDC10, JLG11, LFH⁺12, LCCF10, WGH⁺16]. **resolution** [ABS⁺19, BPA12, HCK14, JD16, PHPH⁺16, SSH⁺14, SPO⁺18, TDM⁺13]. **Resolving** [LSDW18, RKBA14]. **Resource** [MKB⁺19, MCLT15, MZB⁺15, SPHVA19, BH13, BLMS17, CLWD13, CLN⁺19, CJWS15, GEC⁺17, OPA⁺14, REDW10, SWP11, TYX⁺19]. **Resource-driven** [BH13]. **Resources** [BCC⁺12, CPHD15, GFDC11, MCLT12, WCCP14]. **respect** [NLM⁺12]. **respiration** [AdGAD14, Dem19, ERA⁺12, HWZ13, HEH⁺17, HH14, HCH⁺19, KCL⁺14, KRB⁺18, MGK15, MG17, RPI⁺12, SNM11, SHSK14, SBR⁺13, SFLQ⁺19, SVG⁺18, TSDF⁺16, TTK⁺17, WMP⁺19]. **responds** [BG10a]. **Response** [ATP⁺15, AHS11, ACD10, BHC14, FBFR13, JMNG⁺13, KBA⁺14, KVA18, KWRS13, Lan14, LWE⁺11, LBR⁺13, SM11b, SSM⁺19, AP12, ARW⁺10, BH13, BVC⁺14, BPPF12, BPL⁺19b, BGM⁺13, BLM⁺10, CHH⁺17, CT18b, DFK⁺17, DC15, EHW⁺15, FCC11, GTPB⁺11, GHSR⁺16, HLJ12, HPS⁺10a, ILPL13, KK13, KBJ⁺18, LTH⁺12, LEN⁺15, LMR14, MFMC⁺10, MMB17, MLL⁺14, MMBP18, MZB⁺15, MP17, PMLC⁺10, PRL18, RPH⁺10, SGME11, SCPE15, SGG⁺11, SPHVA19, SK19, ŠGH⁺18, SSH⁺14, SSPK⁺12, SMC⁺10, SBF18, SRAB10, SRA10, TIN⁺14, TW10b, TFLS14, VPMrI12, VABMS⁺12, WHAM15, XZC⁺16, XNK18, ZWL⁺14, ZBSR15]. **Responses** [AJC15, IHSS⁺19, QFH18, SIW⁺11, YH17, CJHR19, CESC13, KSTA18a, KRR16, LLL10, LABJ18, LH19, NBDM16, PNR19, RR13, SMMF19, SGJB14, SFWP12, SGA⁺17, Spi15, SGRB10, WCJ⁺15, WdBJF16, WBZ⁺14, WHR18, WD15, WRH⁺18, XFH14, ZCK⁺16]. **Resting** [DHK11, BSBK13, SM11a]. **restoration** [CZB⁺18, SGA⁺17]. **restored** [LHSG15, LH17]. **restructures** [BSY⁺16]. **resulting** [SWM⁺10]. **Results** [GJWS14, GJWS16, GVS⁺10, KK13, LK14, MKBSK19, PGP⁺14, SCF⁺15, SGRB10, WCCP14]. **resurgence** [GK14]. **resuspended** [NXL⁺18, SMW⁺18]. **Resuspension** [KYR⁺12, KFJ13, KHG⁺13, VBBR17]. **retention** [CMS17, FTC10, GHS14, IH11, JWS15, KGM14, MFL11, MS13, OEMB10, PPPA14, RBY⁺17, RGB⁺19, SS19]. **Retracted** [ZXZ17b]. **Retraction** [Ano17]. **retreating** [MWR17]. **reveal** [ALdML⁺14, RHV⁺13, WCM19, WRH⁺18]. **revealed** [AJC15, BCRW15,

CHL⁺¹⁷, CBF10, DTM18, GFDC11, KGL⁺¹⁶, LVDM19, MCYR17,
 OHKC⁺¹², OEMB10, ORGE16, PFJ10, SSC⁺¹⁰, VKC18, WFK⁺¹⁶.
Revealing [CPPdAR⁺¹³]. **reveals**
 [BSCC15, CPF16, GCH⁺¹⁸, HEB⁺¹⁹, KVMA17, LdJMS⁺¹³, MDB19,
 MPM⁺¹⁵, MTK⁺¹⁷, OVRJ13, PvEF12, SSFR19, WZR19, WGRS⁺¹⁷].
reverses [WLV17]. **reversing** [KGRV18]. **review**
 [FHS10, JBB⁺¹⁶, MHT13]. **revisited** [HSB⁺¹³]. **Revisiting**
 [HBR13, MRBR10]. **Rhodophyta** [SGME11]. **rhythms** [SAH⁺¹⁹, SMN⁺¹⁵].
Ria [IR16, VMCM⁺¹⁷]. **ribbon** [LDT⁺¹¹]. **Ribulose** [nVOH12].
Ribulose-1 [nVOH12]. **Rica** [GRSD⁺¹⁴, ANP⁺¹⁴]. **rich**
 [FPD⁺¹⁰, KHCH14, àNTS13, OVRJ13, RLC⁺¹¹, SS12a]. **richness**
 [BBCM⁺¹³, LTPA17, LV16]. **Ridge** [HSP⁺¹⁶, SPB⁺¹⁴, CSC⁺¹¹, SSN12].
rifle [SC10]. **right** [LHLT13]. **rigidity** [RN14]. **ringed** [BAY⁺¹⁴]. **rings**
 [KZR⁺¹⁶, KZR⁺¹⁹, Lee18, NA17]. **Rio** [CKB⁺¹⁶, NEH⁺¹⁹]. **rip** [FRP⁺¹⁴].
rip-channeled [FRP⁺¹⁴]. **riparian** [SCAB⁺¹⁶]. **rippled** [KGC⁺¹²]. **rise**
 [NTK⁺¹⁸]. **Rising** [RWB⁺¹⁹, NFRU11]. **risk**
 [BTJ⁺¹², DIC⁺¹⁸, vSGAK17, LRY12, Rie15, ZS18]. **risky** [MWSB18]. **rival**
 [HSC⁺¹⁴]. **River**
 [APP12, CWRX19, HMFF12, LZC⁺¹⁴, PMP⁺¹⁷, QS19, REE⁺¹², APB⁺¹⁷,
 CFW⁺¹⁴, CAS⁺¹⁷, DPSW16, FB12, FLM⁺¹⁹, FEC⁺¹⁶, GLI⁺¹⁵, GKT⁺¹⁵,
 HDK⁺¹², HC10, HCF⁺¹⁰, HCC⁺¹³, KHH19, Ker17, KZB⁺¹⁰, KCB⁺¹⁷,
 LG16, MU17, NXL⁺¹⁸, PHPH⁺¹⁶, PD11, RAB⁺¹⁷, SAH⁺¹⁹, SFMF15,
 SSKdB14, SGA10, SDS⁺¹⁶, TLH⁺¹¹, TMH⁺¹⁰, TT12, TZD⁺¹⁵, WGH⁺¹⁰,
 WFR10, WDL⁺¹⁷, CS12, CSS⁺¹⁶, CFF⁺¹⁷, DBRB⁺¹⁵, EHT10, FDB⁺¹⁵,
 GPS15, GBD⁺¹⁰, GCH⁺¹², HYK⁺¹⁵, HPM⁺¹⁰, HHS⁺¹⁸, HSC⁺¹¹, HMFF10,
 LWWC⁺¹⁶, MKG⁺¹⁵, OPZ13, PHPH⁺¹⁶, SFB12, SRAB10, SSC⁺¹⁰,
 TEZ⁺¹⁸, TT12, WLG⁺¹⁶, WCC⁺¹⁷, XZGW17, ZKMT⁺¹³, ZZW16].
river-borne [KZB⁺¹⁰]. **river-dominated** [PHPH⁺¹⁶].
river-estuary-ocean [CAS⁺¹⁷]. **river-floodplain** [SDS⁺¹⁶].
river-influenced [FB12]. **river-loaded** [NXL⁺¹⁸]. **river-scale** [KCB⁺¹⁷].
Riverine [MGSM10, PLS⁺¹⁶, AEH19, CCV⁺¹⁸, Ker17, KHG⁺¹³, MT11].
rivers [BMF⁺¹⁶, BBSK18, BLJ13, CRCGG⁺¹⁷, ERA⁺¹², HC12, HCK14,
 HEH⁺¹⁷, HAA⁺¹⁹, IH11, LS15, MH16, MGJH18, SIH⁺¹⁷, VB17, dCGS19].
rock [WRB⁺¹⁹]. **rockfishes** [WAB⁺¹⁷]. **rocky**
 [JD16, LAM12, MBBW11, PPPA14, SMF10]. **rocky-shore**
 [LAM12, MBBW11]. **Role** [EBMR12, JP10, SOM17, TGGZS⁺¹⁰,
 VMCM⁺¹⁷, ACA⁺¹¹, BIM⁺¹⁶, CKD⁺¹⁶, CBS⁺¹⁷, CSJ⁺¹⁴, CPOMA15,
 DHG⁺¹⁷, DSLLL19, DJD⁺¹⁴, DKSA19, FOT⁺¹⁵, FGMN17, HEBS10, IH11,
 KBH⁺¹⁹, LRS⁺¹⁰, LALGM18, ML19, PBA⁺¹⁵, PCF14, RWF⁺¹²,
 RMLVK12, STCS10, SAPI14, SFI⁺¹⁸, SSW19, SBKO18, SSGM18, SSS⁺¹⁹,
 TIS⁺¹³, VHR10, WB19, WGH⁺¹⁰, WXMS10, WYW⁺¹⁰, XSAM12]. **Roles**
 [BCVA_n10, BFW⁺¹³, GLMG15, JMM14, LBS17, MKW⁺¹⁹, SSG⁺¹⁷]. **Roos**
 [YMB⁺¹⁸]. **root** [HCK11, MSS⁺¹⁸]. **Ross** [BHD⁺¹⁷, SJ11, SSPK⁺¹²].
rotation [BK13]. **rotation-affected** [BK13]. **rotifer** [ZEXH15]. **rotifers**

[FA10, RG19]. **rotundata** [MPAS17]. **round** [TB18]. **rRNA** [SSS⁺16].
rubescens [GPH⁺13, VSP⁺11]. **RuBisCO** [nVOH12, HBB⁺11]. **rubrum**
 [JJ17]. **run** [DPSW16]. **run-of-the-river** [DPSW16]. **Rusinga** [GNHGM13].

S [SSS⁺16]. **Saanich** [CHHT18]. **Saginaw** [NHP17]. **Saharan**
 [MFMC⁺10, vdJFS⁺18]. **Sakinaw** [VHM⁺10]. **Sal** [CL11]. **salina** [GBL13].
saline [MMH⁺18, MAD⁺15]. **salinity** [CJS⁺17, GPCJ16, HAL17, PMY⁺19b,
 PKWS19, VLMTEW11, WVGB10, WVV⁺11]. **salinization** [Ker17]. **salmon**
 [AP12]. **salmonids** [CBP10]. **salp** [DPLG⁺19, SSH⁺14]. **Salpa** [HP19]. **Salt**
 [BPL⁺19a, CF14, JW14, ALG⁺13, AC17, BvBB⁺16, CZB⁺18, CF13b,
 KJG10, REE⁺12, SCR⁺12, SSW19, SGS18, WKG⁺16]. **salt-wedge**
 [REE⁺12]. **saltmarsh** [SML⁺19]. **saltwater** [PVLMT⁺16]. **salty** [dIFN10].
same [GN16]. **sample** [MLS⁺14, SBM⁺15, SSC⁺17]. **samples**
 [ALL⁺10a, WCV⁺12]. **sampling** [GPH⁺13, PPH⁺16, SJ11, SCL⁺19]. **San**
 [CVS⁺10, CJS⁺17, GOD⁺18]. **sands**
 [CSME13, KGC⁺12, OEM12, RPI⁺12, SWE⁺18]. **sandy** [IR16, OEMB10].
Santa [BSG14, HVM12]. **Sapphirinid** [TIS⁺13]. **Sargasso**
 [DNH⁺18, HBD⁺16, KNL10, MLK11, NFW13, OALD10, OBNP⁺10,
 RLPL14, TFLS14, TNMV⁺10, ZXN⁺12]. **Sargassum** [LLW⁺18, vHOM⁺19].
satellite [BGW⁺15, SBM⁺15, WSTD10, ZD18]. **satellite-derived** [ZD18].
saturating [BMW10]. **saturation**
 [Bre10, CLLH14, JCF⁺10, LGC13a, LGC13b, NLHAA⁺17, SW11]. **saxitoxin**
 [HLSW⁺15]. **saxitoxin-producing** [HLSW⁺15]. **scalable** [WBZ⁺14]. **Scale**
 [CdC⁺11, BBT⁺10, BPPF12, BSRP⁺12, BCM⁺17, CAQS16, DTM18,
 FJBP15, GMGM⁺13, HHHT19, KCB⁺17, KPP⁺18, MWC⁺16, NLO⁺12,
 PH15, PRL18, RCH⁺15, RKL14, RBI⁺10, RAB⁺17, SCF⁺15, SWCL12,
 SCPE15, SSB⁺18, SLP⁺14, SI10, SSGM18, SS17, TB18, TBSL17, TLH⁺11,
 VPMr12, VAH11, WGJ⁺19, WJHS18, WTN⁺15, YYMN13, ZXN⁺11].
Scale-dependent [CdC⁺11, TBSL17]. **scaled** [RMDK10, RDZ⁺13]. **scales**
 [BRM⁺19, HCD19, HLH13, HSC⁺14, LACI10, MG14, MMWR17, PST⁺13,
 SGRB10]. **scaling**
 [CFAE⁺15, ETKL12, Hir12, HLGA17, KTL17, SLU11, SASB⁺15]. **Scallop**
 [JAS⁺15]. **Scandinavian** [HJT⁺13b, HJT⁺13a]. **scandium** [MBC⁺18].
scanning [CMG⁺15]. **scarce** [TFH17]. **scattering**
 [BBMS17, EM13, PE16b, PE17]. **Scavenging**
 [DJS18, FTC10, CSJ⁺14, OSHS19, VLJ⁺10, vdJFS⁺18]. **scenarios** [FCC11].
Scenedesmus [HNZ⁺16, HCL⁺18]. **Scientific** [How15b]. **scintillans**
 [VdRA⁺19]. **Scleractinia** [CRB⁺17]. **scleractinian**
 [ETI⁺16, HRG⁺15, TFH17, TEGL11, GBR14]. **sclerochronology** [SDS⁺11].
SCM1 [AMMH⁺13]. **scope** [IH18]. **Scotia** [BIM⁺16]. **Scotland** [HGvB⁺13].
Scoured [BDU⁺19]. **scyphomedusae** [RG13]. **Sea**
 [BJDMH10, BIM⁺16, FDH⁺14, LFB⁺10, SSFF12, VPG⁺19, ÅCA⁺18,
 AMNU16, APF⁺18, AJ15, BAY⁺14, BCF⁺17, CBP12, EM13, FGBS⁺18,
 GLI⁺15, GEC⁺17, GRT⁺14, GVS⁺10, HRMD19, HEBS10, JSK⁺15, KVA18,

LKT17, LKLH10, LRG16, MWR17, MKBSK19, MRH⁺15, NFRU11, PHB⁺10, RBRH10, RNG⁺13, RWB⁺19, RVvdP⁺17, SLU11, SLG10, SKV⁺19, SAPI14, SLBH⁺19, SVG⁺18, TvBR⁺19, TGG⁺11, TAV⁺10, TBSL17, UVGS10, WCB⁺10, WCG⁺17, YMB⁺18, ZCZ⁺18, ZTW⁺11, ZXL⁺19, ABD⁺17, ASL16, ABS⁺19, ACC⁺17, BA14, BHD⁺17, BRS18, BKD⁺16, BHB⁺12, BSA⁺16, BTH⁺16, CFD15, CvHB⁺18, CRJ⁺14, CMMKH12, DNH⁺18, DDH⁺19, DWDH10, EO13, GGPM⁺10, GML⁺12, GLI⁺15, GAH11, GBD⁺10, HBD⁺16, HJB⁺12, HPS⁺10a, HCW⁺10, HCLS11, HZC⁺13, JZZY18, KBH⁺19, KK13, KKHP14, KNL10, LYH17, LLW⁺18, LGC16, MGGS18, MGHS18, MPONC⁺17, MBLD15, MLK11, MdBKL13, MVG⁺15, MDSG18, MSR16, NTK⁺18]. **Sea** [NFW13, OALD10, OBNP⁺10, PKB⁺17, PWS⁺11, Piw19, RBG⁺10, RF13, RCJ15, RGLM⁺12, RLPL14, SLE10, SWM⁺18, SJ11, STC⁺11, SW14, SFI⁺18, SSPK⁺12, SFLQ⁺19, SBH⁺11, SSB⁺16, SCQ⁺17, TBLG14, TRD⁺14, Tho19, TFLS14, TNMV⁺10, VPG⁺19, WDX⁺11, WXF⁺15, WMP⁺19, WLR17, XDC⁺19, ZXN⁺12, ZCY⁺15, ZYZ19, ZXL⁺19]. **sea-ice** [PHB⁺10]. **Seabed** [SAS⁺11, RBD18]. **seabird** [WGRS⁺17]. **seafloor** [JBB⁺16, SCP⁺16, SSS⁺19, ZS18]. **seagrass** [AHH⁺16, AFG⁺16, AFSM17, AHJS15, BBT⁺10, BDP⁺19, CB12, CB19, CHL⁺17, CDA16, CUW11, EMO⁺11, EMS16, GPA⁺14, HE10, HLH13, HCAF18, HBZ12, LdlSB⁺12, MMGO⁺17a, MHH⁺17, MMBP18, OWM⁺18, RASV⁺17, RRD14, SVLS⁺16, SM11a, SWCL12, SCPE15, SLS⁺11, SvKP⁺18, TTTM⁺19, ZWA⁺14]. **seagrasses** [CF13a, HCK11, MSS⁺18, RMLVK12]. **seals** [BAY⁺14]. **Seas** [PvDM⁺13, SSB⁺16, SLA⁺18]. **seascapes** [KEH⁺14]. **Season** [TKB18, GBD⁺10, MSK⁺17, PS17]. **Season-specific** [TKB18]. **Seasonal** [ALdML⁺14, ABS⁺19, AGMR14, ARB⁺19, BSR⁺17, BK13, BLMS17, CB12, CH11, CVS⁺10, DBMP⁺11, DDF⁺10, FNSS15, FMM⁺14, HKU⁺10, JM16, KVMA17, LRM17, MPvBS⁺18, MMD18, NUH⁺12, PVLMT⁺16, PMP⁺12, PMPD13, PSZ⁺13, PWF18, RMF11, RRGCA19, RK13, RKTLM18, SKJD⁺14, SJ11, STC⁺11, SI10, SvKP⁺18, TAE⁺18, TST⁺19, vBBM⁺19, ADS⁺17, BNW⁺14a, BMD17, BSY⁺16, CFVU11, CSD10, FDH⁺14, HTL⁺18, HV19, HNL⁺13, HSC⁺11, LKT17, MDB19, MAV⁺13, MKK15, MGS12, QWRJ10, RMJ⁺18, SCAB⁺16, SSU⁺16, SWD11, SMA15, TGGZS⁺10, UMHH⁺14, VSdG17, VBGG⁺13, WLS⁺11, WVGB10]. **Seasonality** [FVSL19, HONR11, JC14, SBT⁺19, WRH⁺17, APF⁺18, BPW⁺19, CvHB⁺18, GTR⁺13, KVA18, REDW10, WKJS⁺14]. **seasonally** [BBC⁺13, CHHT18, MF19, SSGB⁺17, SSB⁺16, VSP⁺11, WCB⁺10]. **seasons** [CCW⁺19, JMJ⁺19, SHM⁺19]. **seawater** [BOT⁺15, JHD⁺11, KPSW10, KK13, LTPK⁺18, LF19, LM12, Man10, PCD⁺19, RSN16, SH10b, TvBR⁺19, ZYZ19]. **seaweed** [FDH⁺14, WGM16]. **seaweeds** [WdBJF16]. **Secchi** [LSDW18]. **Second** [SCQ⁺17]. **Second-order** [SCQ⁺17]. **secondary** [DML17, LEK⁺18, SBT⁺19, VB17, WCG⁺17]. **sections** [GKT⁺15]. **sector** [RBCS16]. **Sediment** [FEC⁺16, JPH⁺18, SFMF15, VBBR17, ALL⁺10a, AHH⁺16, AHS11, ACW⁺18, AC17, BHB⁺19, BC19, BLG⁺15, BBB⁺17,

BRF⁺¹⁷, BLM⁺¹⁰, BSSW11, CZB⁺¹⁸, CR11, CCW⁺¹⁹, CKCEP10, CCC10, CF10, EMH12, EMO⁺¹¹, GCSO14, GKS12, GMS⁺¹⁸, HHM⁺¹⁸, HT17a, HCAF18, JLR⁺¹⁷, KFJ13, LVDM19, LHSG15, LK15, MDB19, MTT17, MMN⁺¹⁰, MAF19, MMPSB14, MW15, MMFBB18, NNE12, àNTS13, OWM⁺¹⁸, SLK⁺¹⁴, SSKdB14, SPP⁺¹⁶, SWZ⁺¹⁵, SHD⁺¹¹, SWD11, SSB⁺¹⁶, TTTM⁺¹⁹, VKC18, VvO11, XBR⁺¹⁸, YKT⁺¹⁵, ZZAC13]. **sediment-based** [MMN⁺¹⁰]. **sediment-dwelling** [SHD⁺¹¹]. **sediment-trap** [EMH12]. **Sedimentary** [LYL⁺¹⁷, RSG11, SSGB⁺¹⁷, CGT16, DCCB17, EMB12, FMGR⁺¹¹, HA16, HMFB16, MBLD15, RK13, SKK⁺¹⁵, WCM19, WKJS⁺¹⁴]. **Sedimentation** [MAC⁺¹⁰, OY10, ALdML⁺¹⁴, MDB19, PE16a]. **Sedimented** [ZLLM10]. **sedimentological** [KBH⁺¹⁹, NEH⁺¹⁹]. **sediments** [AWG⁺¹², AES11, AWK⁺¹⁷, ASH⁺¹⁴, AHD⁺¹⁸, BLH⁺¹³, BPRG⁺¹⁸, BPV⁺¹⁹, BGR14, BBM11, BK11, BMB⁺¹⁸, CEPPR14, CHW14, CPG⁺¹⁰, CKD⁺¹⁶, DIC⁺¹⁸, DT16, DMS⁺¹⁸, EOM16, GML⁺¹², GLKK10, GCR⁺¹⁰, GBP⁺¹², HNHS⁺¹⁵, HGM10, HSP⁺¹⁶, JAZ⁺¹⁰, JBB⁺¹⁶, JAD⁺¹³, JPH⁺¹⁸, JBT11, JP10, KYR⁺¹², KPW⁺¹¹, KHCH14, KPJ12, KJG10, LTH⁺¹², LCM⁺¹², LK14, LZK18, MBB⁺¹⁸, MHL⁺¹⁶, MMGO^{+17a}, MT11, MGW⁺¹³, MPvBS⁺¹⁸, MAS⁺¹⁶, NPT11, NXL⁺¹⁸, OEMB10, OSB⁺¹⁵, RSTP12, RSM13, RRB⁺¹⁶, RETS16, RWC16, SVLS⁺¹⁶, SM11a, SBdB10, SPP⁺¹⁶, SEYJ11, SBNC⁺¹⁹, SMW⁺¹⁸, SBH⁺¹¹, SPG⁺¹¹, TMK⁺¹³, TBK15, VLDM19, VPWW10, WKJS⁺¹⁴, ZZW16, ZMS⁺¹⁸, ZXL⁺¹⁹]. **seed** [RMLVK12, ZXM⁺¹¹]. **seeding** [SBM⁺¹⁵]. **seedling** [CZB⁺¹⁸, IOB⁺¹¹]. **seedlings** [OLC18]. **seep** [CBF10, TLR⁺¹³]. **seepage** [IR16, WMC⁺¹⁵]. **seeps** [ÁCA⁺¹⁸, VFS⁺¹⁵]. **segment** [TLH⁺¹¹]. **segregation** [MACM11]. **Seiche** [BL18, SWL11]. **seiches** [BK13]. **seiching** [DHH15]. **Seine** [RGB⁺¹⁹]. **selected** [DTL⁺¹⁹]. **selection** [BMDC10, CLWD13, FBL15, KM10, MF19, SBDS⁺¹⁵, SNTK15]. **Selective** [MJH⁺¹⁶, GPL11, SRCL⁺¹³]. **Selectivity** [MG14, GNWDL19]. **selenium** [JSB⁺¹⁴]. **self** [CGB⁺¹⁸, OBM⁺¹¹, SSP⁺¹⁸]. **self-adapting** [SSP⁺¹⁸]. **self-cleaning** [CGB⁺¹⁸]. **self-utilization** [OBM⁺¹¹]. **semen** [LFH⁺¹²]. **semi** [BMBI12, GEC⁺¹⁷, Ker17]. **semi-arid** [BMBI12, Ker17]. **semi-enclosed** [GEC⁺¹⁷]. **semiarid** [BGM⁺¹³, YH17]. **semienclosed** [SGA⁺¹⁷]. **senescence** [FAF⁺¹²]. **sensing** [SBM⁺¹⁵]. **sensitive** [CESC14, WD15]. **Sensitivity** [AA11, TBSR13, CF13a, CL17, ES13, HS11, LCZ⁺¹⁹, WP14]. **sensor** [BGW⁺¹⁵]. **sensors** [WBZ⁺¹⁴]. **Sensory** [CMG⁺¹⁵, TSK13, BRT⁺¹⁰]. **Sensory-scanning** [CMG⁺¹⁵]. **sensu** [RSE⁺¹⁷]. **sentinel** [WBZ⁺¹⁴]. **separately** [LdlSB⁺¹²]. **separates** [OCR10]. **separation** [MCYR17]. **sequence** [PTS12, SSS⁺¹⁶, SC10]. **sequestration** [BOT⁺¹⁵, CG17, HHE⁺¹⁹, HLFM⁺¹⁰, KYC⁺¹⁵, MHH⁺¹⁷, SSGM18, WWC⁺¹⁸]. **Sereda** [ACD10]. **series** [CHHT18, FSBT16, GK14, KH16, WRS13]. **services** [SWCL12]. **seston** [BVC⁺¹⁴, MKK15]. **set** [BPGE13, SHSK14, WMT⁺¹²]. **setting** [CSU13]. **settled** [MTSG18]. **Settlement** [TDS⁺¹⁰, ZXM⁺¹¹, FDP⁺¹⁸, PRL18, ZSZ12]. **settlement-stage** [FDP⁺¹⁸].

settling [AJ15, DMN15, SKLG10, vdJFS⁺18]. **seven** [SBF18]. **several** [RHV⁺13]. **Severe** [WHL⁺11, JHW⁺19]. **sewage** [AEH19, BJDMH10]. **sex** [BD15, DdD⁺10, HBCK10]. **sexes** [MHA⁺18]. **Sexual** [FJBP15, BVSR⁺15, SNTK15]. **shading** [BJF18]. **shadows** [SIH⁺17]. **Shallow** [SGS18, AHS11, ASH⁺14, BPV⁺19, BLG⁺15, BVvB⁺19, BKA⁺14, BBQ⁺10, BGM⁺13, BSY⁺16, CWHP14, CAS⁺17, DKG15, GTPB⁺11, GCR⁺10, GSBR11, HCD19, HAC⁺11, HSP⁺16, HKU⁺10, JMJ⁺19, JHD⁺11, KFJ13, LRM17, LRM⁺19, LALM16, LSD18, MMC⁺10, OEMB10, OEM12, QS19, RDC⁺19, REE⁺12, SJB⁺19, SK19, SI10, SSB⁺16, SSYT14, TGC⁺10, TCG⁺17, TTV⁺13, TST⁺19, VP15b, WSM⁺19, WMI⁺17, XFLM14, ZCL⁺19, ZHD⁺16, ZPK⁺12, dKNL⁺15, dlFN10, vH19]. **shallow-water** [AHS11, ASH⁺14, LALM16]. **shape** [ABD⁺17, CPF16, HCD19, Hir12, PBV16, VZJ⁺17, ZEXH15, ZD18]. **shaped** [KTK⁺13, SPFP11]. **shapes** [FDH⁺14, RKG⁺11, UMHH⁺14]. **shaping** [WYW⁺10]. **shark** [VdSLC⁺16, WLS⁺11]. **Shear** [CTH15, NMST18, SVS⁺19]. **Shelf** [ABD⁺17, FYC⁺18, RMJ⁺18, VMAS⁺16, APF⁺18, BRR⁺13, BPPF12, BGR14, GMGM⁺13, GFDC11, HRMD19, HDK⁺12, HGM10, HCC⁺13, JAZ⁺10, JBT11, KSFT13, KVA18, LCBC16, LDT⁺11, MRBR10, MAF19, MBAS⁺17, NTK⁺18, PGB⁺19, RNG⁺13, SS12b, SS12c, TSC⁺19, WBG⁺16, WS13, WDL⁺17, BDB⁺14, CBP10]. **Shelf-basin** [ABD⁺17]. **shelf-slope** [BPPF12]. **shelf/near** [TSC⁺19]. **shelf/near-shelf** [TSC⁺19]. **shell** [BMDC10, MWC⁺16, PLS⁺16, WGH⁺16]. **shellfish** [BMDC10, MMHT10]. **shells** [JAS⁺15]. **shelves** [FDS⁺18]. **Shield** [AA18]. **shift** [AAIA14a, AAIA14b, CBF10, HNSM12, PCJK13, SLK⁺10, THA17, VLWV14]. **shifting** [LAC⁺19]. **Shifts** [LC11, SCF⁺15, GMGM⁺13, HMFF10, MGL⁺13, RMF11, SMA13, TK12, Tho19, WCJ⁺15, WMC⁺18]. **Shimizu** [PHJ12]. **ships** [BBM11]. **shoaling** [NI10]. **shoals** [LP10]. **shore** [LAM12, MBBW11, MCT⁺14, VML⁺19]. **shoreline** [SHM⁺19]. **Short** [ADCH18, BvBB⁺16, GPH⁺13, JHD⁺11, NPT11, CESC14, ETI⁺16, MS13, PD11, RPG13, SSS⁺19, YMB⁺18]. **short-circuit** [PD11]. **short-lived** [MS13]. **Short-term** [ADCH18, BvBB⁺16, GPH⁺13, JHD⁺11, NPT11, CESC14, ETI⁺16, RPG13, SSS⁺19, YMB⁺18]. **shortwave** [SW14]. **shotgun** [DWDH10]. **show** [AEH19, WE19, WHH⁺11]. **showing** [LCZ⁺19]. **shows** [BHW⁺12, PSH⁺11, SM11b]. **shredder** [MM11]. **shrimp** [BPL⁺19a, JW14]. **Shutdown** [TF11]. **Si** [CFD⁺11]. **Siberia** [PRS⁺18]. **sibling** [RF13]. **siderophile** [BTC⁺19]. **Sierra** [SMM11]. **signal** [ACW⁺18, MDB19]. **signature** [HBZ12, Les19]. **signatures** [CBF10, EMH12, HMFB16, HSC⁺11, KPJ12, RPMK17, SMG12, SSC⁺10]. **Significance** [SH10b, WLS⁺11]. **significant** [ASR⁺17, BPGE13, DVSV13, GRPB⁺17]. **Silica** [MRBR10, CF13b, CF14, DMB⁺12, HSC⁺11, KBL⁺10, KNL10, LYL⁺17, MBTK18, WLR17]. **Silicic** [DBC⁺13, KBVW12, MVL⁺10]. **siliciclastic** [PMY19a]. **silicification** [DBC⁺13]. **silico** [GRRR⁺17]. **Silicon**

[CFD⁺¹¹, GRE⁺¹⁶, LALM16, LALGM18, CFD15, HSC⁺¹¹, KBL⁺¹⁰, MRBR10, MEM⁺¹⁷, PRS⁺¹⁸, WLR17]. **silvery** [JGR⁺¹⁴]. **Similar** [LCW^{+17b}, RF13]. **similarities** [LSHK11]. **similarity** [MMD18]. **similis** [MNW⁺¹⁹]. **simple** [HBR⁺¹⁴]. **simplifies** [NB17]. **simulated** [DBA16, SNK12]. **simulation** [IH18, LBS17, OBI12]. **Simulations** [SRA10, FRP⁺¹⁴, GBMG12, LBR⁺¹³]. **Simultaneous** [HSBA10, Joh10, GSB11, SFWP12]. **since** [WWC⁺¹⁸]. **Single** [MDE11, HNL⁺¹³, HPS10b, RGLM⁺¹², SDMK10, YWL⁺¹⁷]. **Single-cell** [MDE11, HPS10b, RGLM⁺¹², SDMK10]. **single-stranded** [HNL⁺¹³]. **sink** [BSN⁺¹⁴, CCV⁺¹⁸, CAS⁺¹⁷, MSGS⁺¹³, MMGO^{+17b}, TSB⁺¹⁹, WLHW13]. **Sinking** [DVDB16, ALL^{+10a}, DM17, HCLS11, KGT12, LdJMS⁺¹³, LKK13, LBNT11, MB10, MLGZ16, SSFF12, SSG⁺¹⁷, SSGM18, TIS⁺¹³, TNK⁺¹⁴]. **sinkings** [MD10]. **sinks** [PMY19a, PHPH⁺¹⁶]. **sinuosa** [HCK11]. **site** [DCRC16]. **sites** [LKS⁺¹⁶, WC17]. **Sitka** [BLLB12]. **situ** [ALL^{+10a}, AFSM17, BFD⁺¹¹, BMC⁺¹⁶, BMD17, DHW11, FPGR⁺¹³, GOD⁺¹⁸, GJWS14, GJWS16, GKS12, HMH⁺¹⁶, KYRMD18, KDGL19, KFJ13, KTH⁺¹⁹, LP10, MMPSB14, MCYR17, NLM⁺¹², SDS⁺¹¹, SPTS15, TIF⁺¹⁵, WPL⁺¹⁴]. **six** [BCDR⁺¹⁹]. **Size** [CBFK19, SPGRP⁺¹⁷, SPR⁺¹⁵, BFW⁺¹³, BPW⁺¹⁹, BBQ⁺¹⁰, CL10, CL11, CLWD13, DPLG⁺¹⁹, DOD10, DML17, Edm15, EHW⁺¹⁵, GC16, KHTO13, KBL⁺¹⁰, KTL17, LYH17, LUM15, MCLT12, MCLT15, MRSS12, Meh10, MRE18, MBO⁺¹⁶, NTA14, NLM⁺¹², OR16, PBV16, Piw19, PMRRA19, RSN16, SGCI14, SLU11, SASB⁺¹⁵, SP11, SH10b, SS17, VMC⁺¹³, WM12, WDJF12, WSTG18]. **size-based** [VMC⁺¹³]. **size-dependent** [WSTG18]. **size-distribution** [SP11]. **size-fractionated** [LYH17]. **size-scaling** [KTL17, SLU11]. **size-structure** [LUM15]. **size-structured** [WDJF12]. **sized** [SPG⁺¹³]. **sizes** [DRE⁺¹⁰]. **Skagerrak** [BBT⁺¹⁰]. **skeletal** [WTC⁺¹⁷]. **skeleton** [YLH⁺¹⁶]. **slope** [BPPF12, FB12, HGM10, JAZ⁺¹⁰, KJKS18, NTK⁺¹⁸, NI10, PCF14]. **Slovenia** [MMGP⁺¹²]. **Slow** [WGH⁺¹⁶, SJM11]. **Small** [DKSA19, BK13, CKD⁺¹⁶, DHW11, DB11, HSC⁺¹⁴, MCCA18, MGW⁺¹³, MFL11, OIS10, PHJ12, PSB⁺¹⁶, RR13, SNO⁺¹⁶, SBvH⁺¹⁵, SSB⁺¹⁸, SBK18, SRAB10, SRA10, TB18, TSK13, VLDM19, WGH⁺¹⁰, WCCP14, vEG10]. **small-scale** [SSB⁺¹⁸]. **snow** [LKK13, RLC⁺¹¹, vdJFS⁺¹⁸]. **snowmelt** [CMS17]. **Society** [ELJ⁺¹⁶]. **soft** [BMDC10, HATF17, NNE12]. **soft-shell** [BMDC10]. **softer** [HATF17]. **Soil** [PBL⁺¹⁸, AWG⁺¹², KZB⁺¹⁰, YJO⁺¹⁹]. **Solar** [BPRG⁺¹⁸, SEYJ11, HVJ⁺¹⁹, SSPK⁺¹²]. **solids** [TRA19]. **Solimões** [BMF⁺¹⁶]. **solitary** [CNL⁺¹⁵, CRB⁺¹⁷]. **Solubility** [SDSC12]. **soluble** [JBT11]. **solute** [CHW14, HC12, SLK⁺¹⁴]. **somatic** [MCWB10]. **Some** [KVA18, HCAF18, APF⁺¹⁸]. **Sound** [KT13, MSAM18, UMHH⁺¹⁴, BBMS17, BAY⁺¹⁴, BCF⁺¹⁷, GLMG15, GBT⁺¹⁷, VW17]. **sounder** [RK13]. **soundscapes** [TLH⁺¹¹]. **Source** [FPG11, MMXC15, WLHW13, AHJS15, BSN⁺¹⁴, CAS⁺¹⁷, FBFR13, GCH⁺¹⁸, GRPB⁺¹⁷, HFP10, JSH12, JBT11, KLM⁺¹⁷, LHSG15, PVLMT⁺¹⁶,

RASV⁺¹⁷, RBRH10, RHDTS⁺¹¹, SCR⁺¹², SLH⁺¹⁵, VLMTEW11, WKG⁺¹⁶, WSM⁺¹⁹, WCG⁺¹⁷, ZLLM10, ZXM⁺¹¹, ZPK⁺¹², dKYH⁺¹²].

Source-age [MMXC15]. **Source-sink** [WLHW13, CAS⁺¹⁷]. **Sources** [MHA⁺¹⁸, PMY19a, WGCC14, ZZAC13, Ano19c, BTH⁺¹⁶, CPPdAR⁺¹³, FYVU17, FEC⁺¹⁶, GMMV19, GBB⁺¹⁸, HCW⁺¹⁰, HCLS11, HSC⁺¹⁴, KSFT13, LRM17, LWWC⁺¹⁶, LGC16, LDL⁺¹⁹, MGGS18, MMGO^{+17a}, OCR10, OLC18, PLS⁺¹⁶, PHPH⁺¹⁶, SKK⁺¹⁵, SMR⁺¹⁷, TLG⁺¹¹, TTV⁺¹³, THFG16, WLG⁺¹⁶, ZZY⁺¹⁰]. **South** [RMJ⁺¹⁸, BNW^{+14b}, MvdPK⁺¹⁵, WBZ⁺¹³, WZG⁺¹⁴, BBTK⁺¹⁶, CCV⁺¹⁸, CRJ⁺¹⁴, CJW⁺¹⁹, DTFR12, DTL⁺¹⁹, DWDH10, DBV⁺¹¹, GBD⁺¹⁰, HCW⁺¹⁰, HCLS11, JKKM13, MWBM19, NLO⁺¹², PSS⁺¹⁴, RDB⁺¹⁶, VGM14, WDX⁺¹¹, WMM18, XDC⁺¹⁹, ZCY⁺¹⁵, ZXL⁺¹⁹]. **south-Alpine** [BNW^{+14b}, WBZ⁺¹³]. **Southeast** [TLB⁺¹⁶, AAIA14a, AAIA14b]. **southeastern** [SSFF12, STC⁺¹¹, SRM⁺¹⁸]. **Southern** [HMV12, MMHT10, BWS⁺¹⁴, BGR14, Car10, DLP13, HZC⁺¹³, LKLH10, NSO19, PMLC⁺¹⁰, REDW10, SCAB⁺¹⁶, SWD⁺¹⁴, SBM⁺¹⁵, TBLG14, vEG10, AdBVA10, BAG⁺¹⁴, BPRG⁺¹⁸, CFD⁺¹¹, CFRL10, CDA16, EB12, FYC⁺¹⁸, FRA⁺¹⁷, HSC⁺¹⁴, JTG⁺¹¹, KYRMD18, MEM⁺¹⁷, MVT⁺¹⁷, MQJG13, OCLW11, OFGF12, RBCS16, RKTLM18, SNvD⁺¹⁰, SDSC12, SMH⁺¹¹, SHF⁺¹², WGRS⁺¹⁷, YYMN13, vdHHC⁺¹⁹]. **Southward** [Ano17l, ZXZ17b]. **southwest** [LWE⁺¹¹, LG16, SNO⁺¹⁶]. **Southwestern** [IR16, ERA⁺¹²]. **sp** [CHS⁺¹⁸, KMF10, QFH18, RG13, RJFMG17, RWM⁺¹⁴, TSK13]. **space** [ITO⁺¹⁷]. **sparse** [CJHR19]. **Spartina** [CZB⁺¹⁸, TMH⁺¹⁸]. **Spatial** [ASH⁺¹⁴, BL13, BHB⁺¹², FA10, GNHGM13, GBT⁺¹⁷, GFDC11, HL13, HOD⁺¹⁷, MBBW11, MBO⁺¹⁶, PE16a, PRS⁺¹⁸, RS16, RMH⁺¹⁷, RKMN⁺¹³, VBC⁺¹², WLS⁺¹¹, WRWPG19, AFSM17, BRM⁺¹⁹, BRT⁺¹⁰, CLWD13, DOD10, DTKMK15, EED10, FZL⁺¹⁴, FMP⁺¹³, GRSD⁺¹⁴, GAK⁺¹⁹, HS10, JHW⁺¹⁹, KT13, MG14, MACM11, MMWR17, NAH⁺¹¹, OWS⁺¹⁷, PST⁺¹³, RPMK17, RNT⁺¹⁹, RAV⁺¹⁷, SKKV11, SPO⁺¹⁸, TLH⁺¹¹, VPMrI12, VMMS⁺¹³, WWC⁺¹⁸, ZYZ19, dIFN10, Ano21c]. **spatially** [BMN16, SVS⁺¹⁹, Tho19]. **Spatio** [CKB⁺¹⁶, NSG⁺¹⁶, SKGT17]. **Spatio-temporal** [CKB⁺¹⁶, NSG⁺¹⁶, SKGT17]. **Spatiotemporal** [JZZY18, KHP18, Man10, OY10, PCD⁺¹⁹, SPP10, TCG⁺¹⁷, JAD⁺¹³, MSAM18]. **spatiotemporally** [FLM⁺¹⁹]. **spawner** [BMC⁺¹⁶]. **spawning** [BMC⁺¹⁶, FLM⁺¹⁹, SVS⁺¹⁹]. **specialist** [TMK⁺¹³]. **speciation** [AHD⁺¹⁸, BAG⁺¹⁴, JKKM13, LG16, VGM14]. **Species** [CCK⁺¹², BCDR⁺¹⁹, BYD19, BDS11, BBCM⁺¹³, CTA⁺¹⁹, CUW11, ETKL16, GYP⁺¹⁸, GBD⁺¹⁰, GN16, HHW⁺¹⁹, HMD11, HVJ⁺¹⁹, HS10, HSR15, ITO⁺¹⁷, KSP⁺¹², LABJ18, LTPA17, MNW⁺¹⁹, MMB17, PZHD18, RBG⁺¹⁰, RF13, RVvdP⁺¹⁷, SRCL⁺¹³, SMF10, SMA13, SGME11, SSFR19, TDS⁺¹⁰, Tho19, TGGZS⁺¹⁰, TBSR13, WZC13, YKBJL12]. **Species-dependent** [CCK⁺¹²]. **species-specific** [SRCL⁺¹³]. **specific** [BBCM⁺¹³, BCM⁺¹⁷, CL11, DNH⁺¹⁸, EBMR12, Fie13, HOD⁺¹⁷, MBTK18,

NLM⁺¹², PBA⁺¹⁵, PMP⁺¹², Piw19, RDT⁺¹⁴, SRCL⁺¹³, TKB18, WRH⁺¹⁸].
spectra [SW14]. **Spectral**
 [GRGL⁺¹³, NBG17, PE13, FB12, HS11, RM14, RNT⁺¹⁹, RDT⁺¹⁴, ZD18].
spectrometry [SSC⁺¹⁰]. **spectroscopy** [AC15, FHS10, SKK⁺¹⁵].
spectrum [BKD⁺¹⁶]. **speed** [LdJMS⁺¹³]. **speeds** [FDP⁺¹⁸, MD10].
spinuligerum [vHOM⁺¹⁹]. **spiny** [BBS12]. **spiralis** [ZLLM10].
Spitsbergen [KvdPB18]. **splash** [MBBW11]. **sponge**
 [ASR⁺¹⁷, KYC⁺¹⁵, LKF⁺¹⁸, MBLP11, MJH⁺¹⁶]. **Sponges**
 [KSFT13, FT11, HGT⁺¹⁸, HTLM18, LALM16, LALGM18, MRBR10,
 MCYR17, SWM⁺¹⁰, WMP⁺¹⁹]. **sporadic** [KMC⁺¹⁵]. **spot** [WMBR13].
spots [GGL⁺¹⁵, SFLB16]. **spp**
 [Edm11, HKS⁺¹⁵, IWF19, KHPIP⁺¹⁴, MQP⁺¹⁶, RG13, SGCC16, TGG⁺¹¹].
sprat [HPS^{+10a}, NZH⁺¹¹]. **Spreading** [SPB⁺¹⁴]. **Spring**
 [KTK⁺¹³, AC15, BJ15, CR16, GLMG15, GGTC⁺¹⁸, HC10, HCF⁺¹⁰, HC12,
 HCC⁺¹³, HKS⁺¹⁵, IHSS⁺¹⁹, JZZY18, KYRMD18, KIH⁺¹⁵, MMD15, SS16,
 SPSG14, SNvD⁺¹⁰, SLA⁺¹⁸, ŠNZ⁺¹⁴, SLG⁺¹⁴, SFLQ⁺¹⁹, TF11,
 VMCM⁺¹⁷, ZXN⁺¹²]. **spring-fed** [AC15, HC10, HCF⁺¹⁰, HC12]. **springs**
 [BR17, KGvdH16]. **St** [GdVT⁺¹¹, MPM⁺¹⁵, vdHHC⁺¹⁹]. **St.**
 [BPW⁺¹⁹, FLM⁺¹⁹, HT17a]. **stability** [ABS⁺¹⁹, DBMP⁺¹¹, MGJH18].
stabilize [DML17]. **Stable**
 [BSCG17, BWBB15, BGB⁺¹⁴, CCC10, GMMV19, GCH⁺¹⁸, RHV⁺¹³,
 VHR⁺¹¹, AHD⁺¹⁸, BJD MH10, BTH⁺¹⁶, CPPdAR⁺¹³, CBF10, EED10, FC11,
 GLS⁺¹³, HPCD13, HHM⁺¹⁸, JBT11, JSB⁺¹⁴, KBA⁺¹², KBA⁺¹⁴, KGL⁺¹⁶,
 KLM⁺¹⁷, KWB⁺¹⁶, LRM17, MTEM15, MBLD15, SBvH⁺¹⁵, SMG12,
 SSYT14, VTH⁺¹⁸, WFK⁺¹⁶, WGCC14, WLHW13, ZMWM11, ZHD⁺¹⁶].
stable-isotope [CBF10]. **stable-isotope-addition** [EED10]. **stage**
 [BBCM⁺¹³, FDP⁺¹⁸]. **stages** [AACS11, RR12]. **staining** [FAF⁺¹²].
standardized [SJB⁺¹⁹]. **standing** [KKH11, KOFN11, LSDW18, MRBR10].
starvation [WRH⁺¹⁸]. **state** [BHS⁺¹⁶, BLS⁺¹⁶, FBFR13, FMM⁺¹⁴,
 GBL13, NEH⁺¹⁹, RCIB14, SZH⁺¹⁰, Spi15, SRA10, ZZY⁺¹⁰]. **States**
 [BHC13, JCF⁺¹⁰, LGC13a, LGC13b, MA18, ZHD⁺¹⁶, BHC14, BGB⁺¹⁴,
 MRSS12, MLS⁺¹⁴, SDH⁺¹⁴, WWC⁺¹³]. **station**
 [AAIA14a, AAIA14b, BDK⁺¹⁷, DBH⁺¹⁶, GWB⁺¹⁴, MGK15, MG17].
statistical [HSBA10]. **status**
 [CR11, JHW⁺¹⁹, PS13, SJB⁺¹⁹, SvKP⁺¹⁸, Tad10]. **Steady** [GBL13].
Steady-state [GBL13]. **steelhead** [CBP10]. **steep**
 [BBLN11, NSO19, SSU⁺¹⁶]. **step** [KM10]. **steps** [GRDPL14]. **sterol**
 [CWF11]. **sterols** [RASD10]. **stickleback** [KKHP14]. **stimulate** [REE⁺¹²].
stimulated [TTTM⁺¹⁹]. **stimulation** [SSGL19]. **stipulacea**
 [CvHB⁺¹⁸, SLS⁺¹¹]. **stochastic** [SRA10]. **stock** [SAS⁺¹¹]. **Stockholm**
 [TBK15]. **stocks** [BBS⁺¹⁸, MRBR10, PHLSSS19, TTTM⁺¹⁹].
Stoichiometric [GHS14, SMC⁺¹⁰, BMPF19, BISZ17, HSB⁺¹³].
stoichiometry [BMW10, BK11, CJ17, FWWF18, HBBM19, HESU13,
 JSH12, KBHT19, MRKR⁺¹⁴, MVNG11, MEM⁺¹⁷, PFH⁺¹⁷, PWF18,

RBCS16, SD10, SWP11, THA17, WZBW⁺¹¹, YJO⁺¹⁹]. **Stokes** [MD10].
stony [MBHG11, MPSA17]. **storage**
 [CMS⁺¹⁸, GHS14, HCAF18, JWS15, MKB⁺¹⁹]. **storm**
 [GPA⁺¹⁴, GGL⁺¹⁸, SVMT15, WLL⁺¹¹]. **storms** [FSBT16, SLG10]. **Strain**
 [PBA⁺¹⁵, DNH⁺¹⁸, FRA⁺¹⁷, HS18]. **Strain-specific** [PBA⁺¹⁵]. **strains**
 [SBF18]. **Strait** [GRT⁺¹⁴, JMM14, MVT⁺¹⁷]. **Straits** [HCS11]. **stranded**
 [HNL⁺¹³]. **strategies**
 [Ano19c, GBB⁺¹⁸, LLL10, MAC⁺¹⁰, SMH⁺¹¹, WZR19]. **strategy**
 [BFW⁺¹³, CMG⁺¹⁵, PVA⁺¹⁹]. **Stratification**
 [MRSE14, SBBNM14, ASL16, ABS⁺¹⁹, BCRW15, CR10, CSD10, IGP⁺¹²,
 KGT12, LBC⁺¹⁸, MvdPK⁺¹⁵, PRL18, RAKE05, RMNZ12, RVvdP⁺¹⁷,
 SNO⁺¹⁶, SLP15, VLDM19, VCM13, WP14]. **stratification-induced**
 [IGP⁺¹²]. **stratified**
 [Ano21a, BHB⁺¹⁹, BSN⁺¹⁴, CR10, CFW⁺¹⁴, FDL17, GSG⁺¹⁷, HHM⁺¹⁸,
 HD19, KKB⁺¹⁸, KCM⁺¹⁰, KKS10, LBS17, MMGP⁺¹², OSC14, QWRJ10,
 RAKE05, SII10, SdlFdlF⁺¹⁰, SPO⁺¹⁸, SCBR12, SSB⁺¹⁶, VPMrI12].
stratifying [APF⁺¹⁸, KVA18]. **Stratigraphic** [SLK⁺¹⁴]. **Stream**
 [KB15, Ano19c, BMBI12, BDU⁺¹⁹, CRCGG⁺¹⁷, CLN⁺¹⁹, DRE⁺¹⁰, Dem19,
 DVSV13, FUS⁺¹⁶, FHR⁺¹⁵, GTR⁺¹³, GSB⁺¹⁷, GBB⁺¹⁸, HHS⁺¹⁸, JC14,
 KRB⁺¹⁸, LSHK11, LBR⁺¹², MACM11, MBP⁺¹⁷, OVRJ13, PH13, PGP⁺¹⁴,
 SCAB⁺¹⁶, SSU⁺¹⁶, SGRB10, SC10, TBAS14, TBSL17, TBF⁺¹³, WWS11,
 WYW⁺¹⁰]. **streamflow** [DBA16]. **streamlined** [HS18]. **streams**
 [BLJ13, BLMS17, CFAE⁺¹⁵, CFD⁺¹⁹, HEB⁺¹⁹, HEH⁺¹⁷, HAA⁺¹⁹, HH14,
 JBLJ12, JTH⁺¹³, LHSG15, LH17, LDL⁺¹⁹, MTT17, PCO⁺¹⁵, PJUR15,
 RWM⁺¹⁹, RvSM17, REDW10, SBM16, SWP11]. **streamwater**
 [CK12, CK13]. **strength** [BCVAn10, SSM⁺¹⁹, WHH⁺¹¹, WDH⁺¹⁷]. **stress**
 [CRS⁺¹⁷, FWO⁺¹⁸, GvBBB17, GHSR⁺¹⁶, LABJ18, Les19, RLSC⁺¹³,
 RKMN⁺¹³, SHKU11, SCPE15, SMC⁺¹⁰, TGGZS⁺¹⁰, WHD10]. **stressors**
 [Les16, MMBP18]. **stromatolites** [RPB17]. **Strong** [AGCA16, LBR⁺¹³].
strongly [BHB⁺¹⁹, BG10a, ILPL13, NLHAA⁺¹⁷, VBC⁺¹²]. **Strontium**
 [MAC⁺¹⁰]. **Structural** [YLJ11]. **Structure**
 [CFVU11, AA11, BSG14, BAG⁺¹⁷, BRS18, BBQ⁺¹⁰, CPHD15, CVS⁺¹⁰,
 DDF⁺¹⁰, FMM⁺¹⁴, GRSD⁺¹⁴, HVM⁺¹⁸, HHHT19, HLJ12, HOD⁺¹⁷,
 JPH⁺¹⁸, KCH⁺¹², KT13, KHH19, KMP⁺¹¹, KZR⁺¹⁶, KBL⁺¹⁰, LBC⁺¹⁸,
 LSH⁺¹⁷, LJL⁺¹⁸, LUM15, LDT⁺¹¹, MCLT12, MCLT15, MvdPK⁺¹⁵,
 MDE11, MRE18, NB17, PMP⁺¹², PHCD14, Piw19, PFJ10, RBCS16,
 RGO⁺¹¹, RRGCA19, SCF⁺¹⁵, SWCL12, SFI⁺¹⁸, TA14, VPMrI12,
 VMCM⁺¹⁷, WRB⁺¹⁹, WWS11, XFLM14, ZWL⁺¹⁴]. **structured**
 [LGC13a, LGC13b, WDJF12]. **structures** [BBR⁺¹⁴, CWRX19, GBB^{+19a}].
structuring [CPOMA15, WXMS10]. **studied** [Clo19, MBB⁺¹⁸]. **studies**
 [APS⁺¹⁹, BLWV10, IH18, KYG⁺¹², PCW19, RHV⁺¹³, RGM⁺¹¹, SRAB10,
 WP14, WLG⁺¹⁶, Xen19, ZTW⁺¹¹]. **Study**
 [YAC⁺¹⁹, AFG⁺¹⁶, BC19, BBTK⁺¹⁶, BBR⁺¹⁴, BAY⁺¹⁴, CSJ⁺¹⁴, CJS⁺¹⁷,
 CFD⁺¹⁹, EMH12, EP14, EOM16, GYP⁺¹⁸, GBL13, HMH⁺¹⁶, IGP⁺¹²,

LBS17, MBC⁺¹⁸, MGS12, MU17, MCYR17, OEM12, PDER10, PHL⁺¹⁸,
 PLE⁺¹⁷, RASD10, RF13, RMNZ12, RAV⁺¹⁷, SDS⁺¹¹, Scu16, SW14,
 VTH⁺¹⁸, WWC⁺¹³, WXF⁺¹⁵, WVGB10, WRS13]. **Stylophora**
 [HRG⁺¹⁵, SIW⁺¹¹]. **sub**
 [GDCM13, GSB⁺¹⁷, KT13, ORGE16, PMA18, RNT⁺¹⁹, RAB⁺¹⁷, VML⁺¹⁹].
sub-alpine [GDCM13, GSB⁺¹⁷]. **sub-Antarctic** [PMA18, VML⁺¹⁹].
sub-Arctic [ORGE16]. **sub-catchment** [RAB⁺¹⁷]. **sub-estuary**
 [KT13, RNT⁺¹⁹]. **subalpine** [EKS⁺¹⁸, EWB12, HEB⁺¹⁹, VMI13].
subannual [HMF16]. **subarctic** [ATP⁺¹⁵, DMMV15, FMM⁺¹⁴, HEBS10,
 MLD⁺¹⁶, MLL⁺¹⁴, MGS12, NO17, PNR19, PFvO⁺¹⁸, RMF11, RLL⁺¹⁰,
 RHSD⁺¹⁰, SKJD⁺¹⁴, STB⁺¹⁶, UFW⁺¹⁸]. **subduction** [SSGM18]. **subfossil**
 [CSGW18]. **subject** [GLF17]. **subjected** [BBS⁺¹⁸]. **sublittoral** [GCR⁺¹⁰].
Submarine [KKH11, RDP⁺¹⁷, BOT⁺¹⁵, GSZL13, KDGL19, KCL⁺¹⁴,
 KSG⁺¹⁰, LKS⁺¹⁶, LKLH10, LSH⁺¹⁷, LCH⁺¹⁴, LSD18, OBL⁺¹⁹,
 PVLMT⁺¹⁶, RGM15, SS12b, SS12c, VLMTEW11]. **submerged**
 [NBG17, VP15b, WZTK15, ZLLM10]. **submergence** [MBBW11].
submerging [SKGT17]. **submersed** [GK10, GK14]. **submesoscale** [MS13].
submicron [JYS18]. **Subpolar** [JWGH19, FPP⁺¹⁹, MMD15].
subpopulations [ALdML⁺¹⁴]. **subsea** [BOT⁺¹⁵]. **subsequent** [DMN15].
subsidence [KMC⁺¹⁵]. **subsidies**
 [ALG⁺¹³, BLWV10, MSM⁺¹⁷, dKNL⁺¹⁵]. **subsidizes** [HMH⁺¹⁶]. **subsidy**
 [MDF⁺¹⁴]. **substances** [MMN⁺¹⁰, RJFMG17, TMK⁺¹³]. **substantial**
 [MNW⁺¹⁹, SFFF12]. **Substrate** [BKD⁺¹⁶, AFG⁺¹⁶, MKBSK19, XLS⁺¹⁹].
substrates [LTH⁺¹²]. **Subsurface** [SBM⁺¹⁵, SVS⁺¹⁹, ZXL⁺¹⁹].
subterranean [PMY^{+19b}, PMY19a]. **subtidal**
 [EOM16, MHL⁺¹⁶, OEMB10, OEM12, SMF10]. **Subtropical** [CPHD15,
 DDK10, DBV⁺¹¹, HPCD13, HDP15, LWB⁺¹⁷, ARML10, ASSG12, BCRC16,
 BSB⁺¹⁰, CCW⁺¹⁹, DBH⁺¹⁶, DKSA19, EOM16, HC10, HCF⁺¹⁰, HEBS10,
 JMJ⁺¹⁹, KBVW12, LCZ⁺¹⁹, OEMB10, OEM12, OY10, PZHD18, PD11,
 RQC⁺¹⁵, RHMSE15, SOM17, SHD⁺¹¹, UFW⁺¹⁸, WE19, YH17, ZWL⁺¹⁴].
success [BSBK13, LRY12, LFH⁺¹², PWWF18, SNTK15]. **succession**
 [FGMN17, GYP⁺¹⁸, HV19, KVMA17, MAV⁺¹³, MTM⁺¹⁶, SPB⁺¹⁴,
 ZXM⁺¹¹]. **successions** [TB18]. **sudden** [BLS⁺¹⁶, OLF⁺¹¹]. **sufficient**
 [HS10]. **suffocated** [BDU⁺¹⁹]. **suggest** [GLS⁺¹³, SPTS15]. **suggests**
 [PTS12]. **Sul** [PMP⁺¹⁷]. **sulfate** [JP10, ZMS⁺¹⁸]. **Sulfide**
 [VSD10, ARW⁺¹⁰, FDL17, GFT⁺¹⁴, KWM⁺¹⁹, WBZ⁺¹³, ZYZ19].
sulfide-dependent [WBZ⁺¹³]. **sulfoniopropionate** [ARW⁺¹⁰]. **Sulfur**
 [FC11, DJD⁺¹⁴, GRPB⁺¹⁷, JZZY18, MBH⁺¹⁵, NUH⁺¹², TNMV⁺¹⁰,
 YLH⁺¹⁶]. **Summer** [FPPA⁺¹¹, WRH⁺¹⁷, AA11, CWRX19, HVJ⁺¹⁹,
 KBVW12, OBT⁺¹¹, PSG⁺¹⁶, PCY⁺¹⁰, RBCS16, RMNZ12, RVvdP⁺¹⁷,
 SNvD⁺¹⁰, SLA⁺¹⁸, SK19, VCM13, ZCY⁺¹⁵]. **summers** [BWS10].
summertime [GMBL16]. **sun** [DHG⁺¹⁷]. **sunlight** [GRGL⁺¹³].
sunscreens [HKS⁺¹⁵]. **Superior**
 [AMB⁺¹¹, AA11, Aus13, BVC⁺¹⁴, BS18b, KYG⁺¹², KWB⁺¹⁶, LCM⁺¹²,

LK14, LZK18, TA14, VLWV14, YAC⁺19, ZMWM11]. **superoxide** [HBD⁺16, RGG⁺10, SCG⁺19]. **supersaturation** [SWM⁺18]. **supplied** [DBC⁺13]. **supplies** [BBS⁺18]. **supply** [CFD⁺11, GSZL13, KCL⁺14, MCLT15, MSM⁺17, MZB⁺15, THA17, UFW⁺18, VMCM⁺17, WDMF13, ZSZ12]. **support** [ANP⁺14, BBSK18, CS12, DTM18, KBA⁺12, KBA⁺14, LJL⁺18, WCG⁺17]. **supported** [Bre10, DKSA19]. **supporting** [BCC⁺12, GFDC11, MMGO⁺17a, vOSH12]. **supports** [BBTK⁺16, SSS⁺16]. **suppresses** [JSFC18, LRY12]. **Suppression** [MTH⁺11, SSGL19]. **Surf** [MSM⁺17, FRP⁺14]. **Surface** [BDB⁺14, BHS⁺16, BMW10, BHB⁺12, BBB⁺14, CEES14, CL10, CFW⁺14, FCD12, HLGA17, HCW⁺10, HRN11, LWE⁺11, ML19, NFRU11, OIS10, OLF⁺11, PHJ12, PH15, PHL⁺18, RS19, RETS16, RGGL⁺12, RGLM⁺12, SGH12, SBM⁺15, SBFB17, TAV⁺10, TPM⁺14, TFLS14, UIY⁺11, VPC10, XBR⁺18, YHS⁺17, ZMS⁺18, ZXL⁺19, vHOM⁺19]. **surfaces** [YWL⁺17]. **surge** [GGL⁺18, MBBW11, SVMT15]. **surpass** [MRBR10]. **surrounded** [CKB⁺16, SML⁺19]. **surrounding** [BBJ⁺19, MHH⁺17]. **survey** [BMN16, HEH⁺17, OWS⁺17]. **Survival** [CGL⁺16, HPS⁺10a, IGP⁺12, MKB⁺19, All10b, BPL⁺19a, LdlSB⁺12, VvO11]. **Susceptibility** [WZR19]. **Suspended** [GPS15, ALL⁺10a, BVvB⁺19, CT18b, GCH⁺18, HPCD13, HMFF10, TRA19]. **suspension** [USB⁺10]. **sustainability** [PE16a]. **sustaining** [VSdG17]. **Svalbard** [HSP⁺16, DHG⁺17, GLKK10, HDDH⁺17, KPW⁺11]. **swarms** [TT14]. **Sweden** [JBLJ12, vEG10]. **Swedish** [Bre14, SLP⁺14]. **swell** [MP17]. **swim** [KK11]. **Swimming** [FDP⁺18, LWE⁺19]. **switch** [WE19]. **Switzerland** [BNW⁺14b, RLB⁺10]. **SwmA** [SBFB17]. **sydowii** [RBRH10]. **Symbiodiniaceae** [Les19]. **Symbiodinium** [BWD⁺11, BWD⁺12, KHPIP⁺14, WHD10]. **symbiont** [JLRK12, PGRR⁺19, UA10]. **symbiont-bearing** [JLRK12, UA10]. **symbionts** [HBD⁺11, HRPW15, LKF⁺18, TFH17]. **symbioses** [MWS10]. **symbiosis** [DBMP⁺11]. **symbiotic** [FPPA⁺11, FPGR⁺13, FT11, GRPB⁺17]. **sympatric** [BPW⁺19]. **symphony** [ŠNZ⁺14]. **Synchronized** [BPPF12]. **Synchronous** [WCJ⁺15]. **synchrony** [ASW⁺19, BRM⁺19, BCM⁺17]. **Synechococcus** [ANP⁺14, BWP⁺10, DNH⁺18, DMN15, JBPM15, MZB⁺15, SBFB17, TNMV⁺10]. **Synergistic** [ARML10, ŠSP17]. **synoptic** [HEH⁺17, SS17]. **synoptic-scale** [SS17]. **synthase** [BMM⁺13]. **synthesis** [ASA⁺18, ETKL16, HBR13, LWWE⁺18]. **system** [AHS11, BSCC15, BPPF12, DBSP⁺16, DJD⁺14, DPG⁺12, DTM18, EO13, EED10, FZL⁺14, HDK⁺12, KSG⁺10, Man10, MFM⁺12, MBO⁺16, MGSM10, MGT15, NSO19, PJFJ⁺15, RSG11, RMK⁺16, STC⁺11, SFB12, WM12, WWC⁺13, WGM16, WAB⁺17, WDL⁺17, YH17, BTC⁺19, TSC⁺19]. **systems** [AP12, FDBW16, GMMV19, HAC⁺11, HCH⁺19, JHD⁺11, PE17, SGA⁺17, SRM⁺18, VPC10, VLJ⁺10, WSM⁺19, WGH⁺10].

T. [CTA⁺¹⁹, ETI⁺¹⁶]. **tactics** [GMD11]. **Tahoe** [PHL⁺¹⁸]. **Taihu** [CCK⁺¹², MQP⁺¹⁶, XPQ⁺¹⁰, dKYH⁺¹², QHVM18, TGC⁺¹⁰, TCG⁺¹⁷, XXZ⁺¹⁹]. **Taiwan** [JHD⁺¹¹, YWY⁺¹⁵]. **tale** [CRCGG⁺¹⁷]. **tallgrass** [WWS11]. **tamarensis** [SFWP12]. **tanakai** [ITO⁺¹⁷]. **Tanganyika** [CMK⁺¹⁰, VAH11]. **Tanzania** [WKJS⁺¹⁴]. **taurine** [CHV⁺¹⁷]. **taxa** [BVP⁺¹⁵, RCIB14, SK19, ŠGN⁺¹⁹, WMT⁺¹², XFH14]. **taxifolia** [EMO⁺¹¹, OBM⁺¹¹, RSTS⁺¹⁸]. **Taxon** [BBCM⁺¹³, MBTK18]. **Taxon-**[BBCM⁺¹³]. **Taxon-specific** [MBTK18]. **Taxonomic** [HSTK15, ETKL12, ETKL15, RKG⁺¹¹, WKAM⁺¹⁹, ZCL⁺¹⁹]. **taxonomy** [DPLG⁺¹⁹]. **technique** [HBM11]. **techniques** [KB15, SMMF19]. **telemetry** [VdSLC⁺¹⁶]. **Temora** [SNTK15]. **temperate** [BWBB15, BDP⁺¹⁹, BK13, BKA⁺¹⁴, CF13b, CRB⁺¹⁷, CGP⁺¹⁹, CHL10, DPSW16, DBMP⁺¹¹, FPPA⁺¹¹, FPGR⁺¹³, GLMG15, GJWS14, GJWS16, HS11, HNL⁺¹³, HAA⁺¹⁹, JM16, JC14, KOFN11, LACI10, LLB17, MA18, MGL⁺¹⁶, MEM⁺¹⁷, MRB11, MDE11, PBL⁺¹⁸, PHLSSS19, RR13, RRGCA19, SPS19, SBvH⁺¹⁵, SWZ⁺¹⁵, SWL11, SLPM15, VBC⁺¹², VSP⁺¹¹, WL17, WS13, ZCK⁺¹⁶]. **Temperature** [KTL17, LUM15, MCLT12, RKBA14, SLU11, SHKU11, SNK12, SLG⁺¹⁴, SW11, WZBW⁺¹¹, BHB⁺¹⁹, BYD19, BPGE13, CSGW18, CL10, CL17, DBSP⁺¹⁶, ETKL16, ETI⁺¹⁶, Fie13, FDH⁺¹⁴, GdVT⁺¹¹, GLMG15, GLF17, GBR14, HYK⁺¹⁵, HSLH⁺¹⁴, HBB⁺¹¹, HQB⁺¹⁸, JHLK⁺¹⁹, JC14, KNA⁺¹⁴, KSY11, LABJ18, LAM12, MKK15, MSK⁺¹⁷, MMJ⁺¹², NFRU11, PvEF12, PMP⁺¹², PSG⁺¹⁶, PHL⁺¹⁸, PWF18, RLB⁺¹⁰, Rie15, SJB⁺¹⁹, SDS⁺¹¹, SPHVA19, SIW⁺¹¹, SPPS10, SH11, TJJ⁺¹⁵, THA17, TPM⁺¹⁴, VLWV14, WLO⁺¹⁹, WHD10, XXZ⁺¹⁹, YWL⁺¹⁷, ZMS⁺¹⁸]. **Temperature-**[KTL17, SW11]. **Temperature-induced** [SHKU11, THA17]. **temperatures** [BBQ⁺¹⁰, RMNZ12, SNO⁺¹⁶, SMF10, WdBJF16, WRH⁺¹⁷]. **Temporal** [AFSM17, BCRC16, BDK⁺¹⁷, CFAE⁺¹⁵, CDA16, CBF10, EED10, GFT⁺¹⁴, PRL18, TvBR⁺¹⁹, TEZ⁺¹⁸, VMMS⁺¹³, WWC⁺¹⁸, ZYZ19, dFN10, BRM⁺¹⁹, CKB⁺¹⁶, DB11, GBT⁺¹⁷, HLH13, IBPG17, JD16, MHRH11, MTM⁺¹⁶, MBO⁺¹⁶, NSG⁺¹⁶, PE16a, RS16, RPMK17, RMH⁺¹⁷, RAV⁺¹⁷, RKMN⁺¹³, SKGT17, VPMrI12, WV18]. **Temporal-spatial** [WWC⁺¹⁸]. **temporary** [MM11, TBAS14, WVGB10]. **tentative** [WLR17]. **term** [AAIA14a, AAIA14b, APS⁺¹⁹, ADCH18, BHW⁺¹², BGW⁺¹⁵, BvBB⁺¹⁶, CJS⁺¹⁷, CESC14, DC15, EP14, ETI⁺¹⁶, GPH⁺¹³, HSCM19, JHD⁺¹¹, KMC⁺¹⁵, KHK⁺¹⁹, LC12, MKBSK19, MKG⁺¹⁵, MSR16, NPT11, OEMB10, PCW19, PJUR15, RWM⁺¹⁹, RKWH18, RGO⁺¹¹, RG13, RPG13, RNT⁺¹⁹, RMNZ12, SK19, SSFR19, SSS⁺¹⁹, TNI19, TCFP19, VKC18, VvO11, WCM19, WV11, WB19, Xen19, YMB⁺¹⁸, ZHN⁺¹⁰, ZWL⁺¹⁴, MKBSK19]. **terminates** [ŠF19]. **termination** [BRF⁺¹⁷]. **terms** [KPV⁺¹¹]. **Terrestrial** [AWG⁺¹², BBSK18, CS12, HMH⁺¹⁶, KBA⁺¹², KHVS11, AAC⁺¹⁹, BLWV10, TYX⁺¹⁹, WLS⁺¹¹, KBA⁺¹⁴]. **terrestrially** [SBC⁺¹⁷]. **terrestrially-derived** [SBC⁺¹⁷]. **terrigenous** [FB12, MBAS⁺¹⁷]. **test** [LLL10, LAM12, MMFBB18]. **Testing** [SMA13, Lan14]. **testudinum**

[BBS⁺18, BJF18, HE10, SCPE15]. **tetraether** [ZKMT⁺13]. **Th** [SBNC⁺19]. **Thai** [TLB⁺16]. **Thai-Malay** [TLB⁺16]. **Thalassia** [BBS⁺18, BJF18, HE10, SCPE15]. **Thalassiosira** [BRS⁺13, FAF⁺12, HBB⁺11, MEM⁺17, SLC⁺16, Sch19, SLH⁺15, TJJ⁺15]. **Thaumarchaeal** [SSG⁺17, HQB⁺18]. **Thaumarchaeota** [PWS⁺11]. **thaw** [DMMV15, LVM⁺10]. **Their** [SBKO18, TIS⁺13, BBMS17, BBM11, CBF11, CFRL10, DJD⁺14, FT11, GK15, GAK⁺19, LOS12, LTH⁺12, LALGM18, MDB19, MSAM18, MSR16, NCT⁺15, PZHD18, PE17, RASD10, RLC⁺11, RMJ⁺18, RMK⁺16, RR12, SSG⁺17, SRCL⁺13, SGA⁺17, SMN⁺15, SKK⁺13, SSN12, Tad10, VBBR17, uGH⁺11]. **theoretical** [VTH⁺18, ZF17]. **theories** [APF⁺18, KVA18]. **theory** [KTL17, SMA13, WLO⁺19, WFB⁺11]. **there** [CL17]. **Thermal** [CUW11, JLRK12, PZHD18, SASB⁺15, SNO⁺16, XFLM14, ZWL⁺14, AA11, BCRW15, CRS⁺17, FZL⁺14, GSBR11, GHSR⁺16, LBC⁺18, Les19, LS15, LCZ⁺19, PMP⁺12, PST⁺13, PRL18, RDC⁺19, RGO⁺11, SFS⁺16, SBB⁺18, TA14, ZKL⁺14]. **thermally** [BSN⁺14, CR10, KKS10, RAKE05]. **thermocline** [PPL10, SGJB14]. **Thermodynamics** [RMK⁺16]. **thermography** [KDGL19]. **Thermohaline** [ASL16]. **thermohydrodynamics** [dlFN10]. **thermokarst** [MLD⁺16]. **Thiamin** [FLLH18]. **thin** [SBBNM14, TWWY18]. **things** [MTT17]. **thiols** [LFC17]. **thiotrophic** [LFB⁺10]. **third** [XXZ⁺19]. **thompsoni** [HP19]. **thorium** [CSJ⁺14]. **those** [MRBR10]. **threat** [JTH⁺11]. **threatened** [LABJ18]. **Three** [MMFBB18, OBI12, EMS16, HE10, HH14, IH11, LWE⁺19, LWWC⁺16, OSC14, RF13, SPP10, TGGZS⁺10, WE19, WOC⁺18, RBY⁺17]. **Three-dimensional** [MMFBB18, OBI12, HE10, LWE⁺19]. **threespine** [KKHP14]. **Threshold** [SMA13, Bre10]. **Threshold-driven** [SMA13]. **Thresholds** [DdG10, SW11]. **through-flow** [OHKC⁺12]. **throughout** [EB12, HPM⁺10, MQP⁺16, SHM⁺19]. **Thysanoessa** [BPW⁺19, CTA⁺19]. **Tibetan** [MNW⁺19, SHL⁺18]. **Tidal** [KGM14, RBD18, VLMTEW11, WMC⁺18, ADCH18, AC17, BFD⁺11, BMD17, BGP⁺15, CEES14, CF14, CMW⁺19, DCCB17, DTM18, FEW⁺14, HPM⁺10, HMFF12, LSH⁺17, LHSBP18, MSGS⁺13, MCT⁺14, PE16a, RGM15, SML⁺19, SHM⁺19, SSP⁺18, SVMT15, WGC⁺13]. **tidally** [GJR⁺19, VPG⁺19]. **tide** [CTG15, CT18b, GLF17, GLF18, HCD19, HST⁺14, KG18, KSWFG13, LWS⁺17, OPA⁺14, OLF⁺11, WXF⁺15, ZXM⁺11]. **tide-dominated** [GLF17, GLF18]. **tide-driven** [HCD19]. **tides** [LKLH10, LLW⁺18, VMCM⁺17]. **tiered** [OMSC13]. **tightly** [VCPC⁺16]. **time** [BGB⁺14, CHHT18, CF14, DdD⁺10, FSBT16, GBS17, GK14, IBPG17, Joh10, KH16, MPM⁺15, SHSK14, SLHA19, Sha10, SSPK⁺12, WRS13]. **time-dependent** [SSPK⁺12]. **time-frequency** [SLHA19]. **time-series** [CHHT18, FSBT16, KH16, WRS13]. **times** [BM16]. **timescale** [ASW⁺19, BSB⁺18]. **timescales** [LH17, SM10, SHK13]. **Timing** [BMC⁺16, LHS19, MDB19]. **tip** [ZCZ⁺18]. **tipping** [CESC13]. **tissue** [BLJ13, JLRK12]. **Tohoku** [KJKS18]. **Tokyo** [KHK⁺19, TNI19]. **tolerance**

[CUW11, IOB⁺¹¹, LGW⁺¹⁹, WA14, WHD10]. **tolerances** [PMP⁺¹²].
tolerates [VFS⁺¹⁵]. **Tonga** [SPB⁺¹⁴]. **tonsa**
 [DHK11, JLG10, JLG11, TW10b]. **tool** [BGB⁺¹⁴]. **tools** [KWF⁺¹⁷, MH16].
top [Meh10, PDER10]. **top-down** [Meh10, PDER10]. **Topographic**
 [AAO⁺¹⁹]. **Total** [YKT⁺¹⁵, FSCB11, Kir13, TRA19]. **Tower** [CSC⁺¹¹].
toxic [BH16, BRF⁺¹⁷, FWvD⁺¹⁸, GNWDL19, JLC⁺¹⁵, LGW⁺¹⁹, XNK18].
toxicity [DBFL11, HST⁺¹⁴, HLSW⁺¹⁵, JHLK⁺¹⁹, WZR19]. **toxicokinetics**
 [HHW⁺¹⁹]. **toxin** [DMS⁺¹⁸, MMHT10, SBDS⁺¹⁵]. **toxins** [BMDC10].
Toxoplasma [SSL⁺¹²]. **Trace** [BLLB12, HCW⁺¹⁰, HCLS11, LYH17,
 ANP⁺¹⁴, CJ17, MMH⁺¹⁸, ORC⁺¹⁷, SH10b, TNK⁺¹⁴, WFR10]. **traced**
 [LKLH10]. **tracer** [DTM18, EWB12, FB12, GVS⁺¹⁰, JTH⁺¹³, RF13].
tracers [BTH⁺¹⁶, GMMV19, RASD10, TLG⁺¹¹, TMO⁺¹⁸]. **Tracing**
 [MMPSB14]. **tracked** [CFD⁺¹¹]. **Tracking** [CLB19, KGM14, LHSG15].
tracks [PWS⁺¹¹]. **trails** [LKK13]. **Trait** [FFA13, FPP⁺¹⁹, TBLG14,
 KVMA17, KWF⁺¹⁷, SPR⁺¹⁵, WGH⁺¹⁶, WKAM⁺¹⁹]. **Trait-based**
 [FFA13, FPP⁺¹⁹, TBLG14, KWF⁺¹⁷]. **traits**
 [ALdML⁺¹⁴, BCDR⁺¹⁹, BH16, BSM17, CPOMA15, ETKL12, FBL15,
 GBB^{+19a}, HV19, KVMA17, PLS⁺¹⁶, SYdTP⁺¹¹, SvKP⁺¹⁸]. **trajectories**
 [RCJ15]. **transboundary** [TZD⁺¹⁵]. **transcription** [DMB⁺¹²].
transcriptional [SDCF16]. **transcriptome** [KBHT19]. **Transcriptomic**
 [LGW⁺¹⁹]. **transect** [HHS⁺¹⁸, MLS⁺¹⁸, MCGF⁺¹¹, ZTW⁺¹¹, dGCB⁺¹¹].
transfer [ACW⁺¹⁸, GBT⁺¹⁷, HE10, KWB⁺¹⁶, MDSG18, RN14, RMH⁺¹⁷,
 SSU⁺¹⁶, SAS⁺¹¹, VPC10]. **Transformation** [OEM12, RJFMG17, EKS⁺¹⁸,
 GAM⁺¹⁹, MKW⁺¹⁹, ORGE16, PML⁺¹⁹, RBY⁺¹⁷]. **Transformations**
 [CAS⁺¹⁷, KPJ12, KHG⁺¹³, OHKC⁺¹², RGB⁺¹⁹]. **transformed**
 [CJC⁺¹², LGR⁺¹²]. **transient** [JWS15]. **transition** [MD15, RRD14].
transitional [KMH⁺¹⁷]. **transitions** [BVSR⁺¹⁵, PT11]. **translocation**
 [PGP⁺¹⁴]. **transmission** [HNL⁺¹³]. **transparency**
 [FOT⁺¹⁵, SNO⁺¹⁶, WFB⁺¹¹]. **transparent** [AAC⁺¹⁹]. **Transport**
 [FYC⁺¹⁸, FWFB10, BBK⁺¹⁵, BBCM⁺¹³, BDC⁺¹⁴, BMB⁺¹⁸, CHW14,
 CLB19, EWB12, FRP⁺¹⁴, GPS15, HSR⁺¹⁰, HC12, HCS11, IR16, KYR⁺¹²,
 KMC⁺¹⁵, KBE⁺¹⁷, LKS⁺¹⁶, MMFBB18, PHPH⁺¹⁶, RBY⁺¹⁷, RCV⁺¹⁴,
 RKTLM18, SFMF15, SHT⁺¹⁷, SGG⁺¹¹, SBNC⁺¹⁹, SKK⁺¹³, SC10, TBK15,
 WKS13, WBG⁺¹⁶, WLL⁺¹¹]. **transported** [BBM11]. **transregional**
 [WWC⁺¹³]. **trap** [ALL^{+10a}, EMH12]. **treated** [KCB⁺¹⁷, LM12].
treatment [MACM11]. **tree** [KKP⁺¹⁹]. **Trench** [KJKS18]. **Trend**
 [RMNZ12, JHW⁺¹⁹]. **trends**
 [DC15, HLH13, LKT17, MKG⁺¹⁵, MSR16, PHDH14, TKB18]. **tributaries**
 [PFH⁺¹⁷]. **Trichodesmium** [BS18a, BAA⁺¹³, BWB⁺¹⁰, BRS⁺¹³, GWB⁺¹⁴,
 HBD⁺¹⁶, Ho13, KWGN⁺¹⁰, OALD10, OBNP⁺¹⁰, RWM⁺¹⁴, WKB⁺¹⁰].
tricornutum [CSJ⁺¹⁴, RLSC⁺¹³]. **trigger** [FMGR⁺¹¹, FPSL18, GMD11].
triggered [BS18b, DMSHC16, WLL⁺¹¹]. **triggers** [BMC⁺¹⁶, WHAM15].
triphosphate [MLK11]. **triple** [MQJG13, TMO⁺¹⁸, WSB⁺¹³]. **triplet**
 [MA18]. **Trophic**

[ACA⁺¹¹, CTA⁺¹⁹, CHL⁺¹⁷, CPHD15, HHW⁺¹⁹, KLM⁺¹⁷, MTEM15, MCYR17, SLBNG11, BBT⁺¹⁰, BHS⁺¹⁶, BFW⁺¹³, BSSR10, CR11, CFRL10, DLP13, DLBF17, DC15, FPSL18, GAH11, GBT⁺¹⁷, GRDPL14, JSB⁺¹⁴, JC14, KCH⁺¹², KVMA17, KWRS13, LS14, PGRR⁺¹⁹, PS13, PLE⁺¹⁷, PMA18, RHV⁺¹³, RCIB14, RRCH⁺¹⁹, RRGCA19, SJB⁺¹⁹, SD10, Spi15, WL17, WB19, WHL⁺¹¹, WWS11, WKAM⁺¹⁹, XZC⁺¹⁶, ZZY⁺¹⁰].

Tropical [ASA⁺¹⁸, DSELL19, WMM18, AJC15, BBLN11, BPA12, BSY⁺¹⁶, CF13a, CEPPR14, CRJ⁺¹⁴, CJW⁺¹⁹, CPOMA15, CSS⁺¹⁶, CKB⁺¹⁶, DSS⁺¹¹, HE10, HOD⁺¹⁷, JK13, KCM⁺¹⁰, LWE⁺¹¹, L18, LÁSDC18, MRBR10, MBC⁺¹⁶, MSS⁺¹⁸, MLS⁺¹⁸, MSD⁺¹⁴, MRC⁺¹⁶, PZHD18, RBG⁺¹⁰, SWP11, SPGRP⁺¹⁷, VGM14, VFS⁺¹⁵, WLS⁺¹¹, WCC⁺¹⁷, WLL⁺¹¹, WMI⁺¹⁷, XFLM14, ZOB⁺¹⁵, dKNL⁺¹⁵]. **trout** [CBP10]. **trumps** [GWB⁺¹⁴]. **tube** [BBR⁺¹⁴]. **tube-building** [BBR⁺¹⁴]. **tunas** [LRS⁺¹⁰]. **tundra** [DHZ⁺¹⁹, MDF⁺¹⁴, MW15]. **tuned** [ŠNZ⁺¹⁴]. **tunicate** [LBR⁺¹³]. **tunnel** [PBV16]. **turbid** [BVvB⁺¹⁹, SW14]. **Turbidity** [HYK⁺¹⁵, LS14, NXL⁺¹⁸, SVLS⁺¹⁶, TRA19, VBBR17]. **Turbulence** [CLN⁺¹⁹, FBL15, MCCA18, AGML18, CT18a, GTPB⁺¹¹, JCS⁺¹⁸, LP10, PPL10, RMDK10, VPC10]. **Turbulence-mediated** [CLN⁺¹⁹]. **Turbulent** [vH19, CSD10, LBS17, PTS⁺¹⁹, TDS⁺¹⁰, TF11, WVL⁺¹⁸]. **turf** [LCS⁺¹⁹]. **turn** [RPH⁺¹⁰]. **turn-of-the-century** [RPH⁺¹⁰]. **turnover** [ADS⁺¹⁷, BSSW11, GHSR⁺¹⁶, HS10, LWWE⁺¹⁸, MWBM19, REDW10, SSKdB14, WMC⁺¹⁵]. **Twenty** [AEH19]. **twilight** [SBKO18]. **Two** [KM10, LABJ18, PST⁺¹³, BBK⁺¹⁵, CBK18, CBS⁺¹⁷, CGT16, CUW11, CKCEP10, CRS⁺¹⁷, FEW⁺¹⁴, HSLH⁺¹⁴, HHW⁺¹⁹, HNL⁺¹³, JLC⁺¹⁵, JWS15, LDY⁺¹⁶, LKS⁺¹⁶, LALM16, LSD18, MTT17, MEM⁺¹⁷, PK14, PE16b, RDP⁺¹⁷, SMA13, SWM⁺¹⁰, SBNC⁺¹⁹, SIW⁺¹¹, SRM⁺¹⁸, SSM⁺¹⁹, TEG11, TSK13, VBC⁺¹², VIS⁺¹³, WFK⁺¹⁶, XF14]. **two-component** [PE16b]. **two-dimensional** [HSLH⁺¹⁴]. **two-layer** [SBNC⁺¹⁹]. **Two-step** [KM10]. **type** [TBLG14]. **types** [SOH⁺¹⁸]. **Typha** [KOFN11]. **typhoon** [WCJ⁺¹⁷]. **typical** [PSZ⁺¹³].

U.K. [YJO⁺¹⁹]. **U.S.** [HEH⁺¹⁷, JCF⁺¹⁰, LPLH18, OWFS11]. **U.S.A** [PHL⁺¹⁸]. **U.S.A.** [AJG13, CWHP14, GMBL16, HHM⁺¹⁸, HTLM18, KT13, KSG⁺¹⁰, LHSBP18, QS19, VdRA⁺¹⁹]. **ubiquitous** [NMST18]. **Uca** [LDCT11]. **Ugandan** [PHG13]. **Uinta** [HML⁺¹⁴]. **Ulleung** [NTK⁺¹⁸]. **ultimate** [RKLH11]. **Ultrahigh** [PD11, SSC⁺¹⁰]. **ultraviolet** [BSH16, BCVA_n10, CRS⁺¹⁷, FOT⁺¹⁵, HS11, HBB⁺¹¹, HKS⁺¹⁵, KMF10, RWF⁺¹², SSPK⁺¹², SMC⁺¹⁰, UVGS10, VMF⁺¹¹, WFB⁺¹¹]. **Ulva** [HZC⁺¹³, ZX11]. **un-stratified** [LBS17]. **Unbalanced** [BSA⁺¹⁶]. **Uncertainty** [KBA⁺¹⁴]. **Uncoupling** [BB11, WL18]. **Under-ice** [BCRW15, BBC⁺¹³, EM13, KIH⁺¹⁵]. **Underestimation** [SNM⁺¹⁵]. **underlie** [LCW^{+17b}]. **underlying** [OLF⁺¹¹]. **Understanding** [RNK⁺¹⁶, RvSM17, SLC⁺¹⁶]. **understory** [CHPH13, MRB11]. **underwater** [JGR⁺¹⁴, SGH12, SPO⁺¹⁸, TLH⁺¹¹]. **Unexpected** [GK14, MD15].

unicellular

[ABB⁺14, BAA⁺13, GFH13, MFK⁺13, SMLC⁺18, SPHVA19, YLJ11].

Uniform [ZHD⁺16]. **Unimodal** [CL11, SASB⁺15]. **uninvaded** [EMO⁺11].

unique [ANP⁺14, DSL11, WM12, WGDA19]. **United**

[MLS⁺14, BHC13, BHC14, BGB⁺14, MRSS12, SDH⁺14, WWC⁺13].

universal [BDC⁺14]. **unmanaged** [KKP⁺19]. **Unprecedented** [SJM11].

unproductive [KBA⁺14, RKG⁺11]. **Unraveling**

[WYW⁺10, WSTG18, YWL⁺17]. **unrestored** [LHSG15, LH17]. **Untersee**

[SMA15]. **upgrade** [TYX⁺19]. **upland** [MMFBB18]. **uplift** [MNW⁺19].

upon [GMS⁺18, HVD⁺18]. **upper** [BIM⁺16, BIS⁺10, GOD⁺18, GCH⁺18,

RS16, SWM⁺18, SSH⁺14, SRAB10, ZNX⁺12]. **Uptake**

[SMH⁺11, ASSG12, BSR⁺17, BMW10, BMBI12, BC19, BDS11, BB11,

BLM⁺10, CFD⁺11, CLN⁺19, FFA13, GWD⁺16, GLF18, HS18, HCC⁺13,

JJ17, KRR16, KBVW12, LF16, LF17b, MFK⁺13, MBP⁺17, MEM⁺17,

MLK11, MSD⁺14, NCT⁺14, OALD10, PFvO⁺18, RvSM17, SBC⁺17, TJJ⁺15,

TKK⁺17, WM17, WMM18, WFL⁺12, XSAM12]. **Upward** [HSR⁺10].

Upwelling

[BWS10, CMK⁺10, HLH13, ANP⁺14, CMM⁺11, CFVU11, GFT⁺14, GRE⁺16,

HDK⁺12, HHHT19, JAS⁺15, KTS⁺14, LS15, MFM⁺12, SdIFdIF⁺10, VFME18,

VMCM⁺17, WM12, WCJ⁺15, WAB⁺17, WDL⁺17, ZCZ⁺18, ZCY⁺15].

upwelling-driven [WCJ⁺15]. **Upwelling-influence** [HLH13].

upwelling-influenced [HHHT19]. **urban**

[CKB⁺16, FPG11, LHSG15, LH17, MH16, vBBM⁺19]. **Urbanization**

[PCO⁺15, SLE10]. **urchin** [FGBS⁺18]. **urchins** [SLG10]. **urea**

[DBFL11, FPD⁺10, SMR⁺17]. **Urrutia** [CL11]. **USA**

[CF10, FYVU17, KH16, KDGL19, SBM16]. **USC** [CVS⁺10]. **Use**

[HH14, KFP⁺18, WCCP14, BMM⁺13, BSM17, CF13a, DCCB17, GEC⁺17,

GTR⁺13, HNHS⁺15, Ker17, KSG⁺10, KGvdH16, LLH⁺15, LKK13,

MHRH11, NCT⁺14, OPA⁺14, RASD10, SLE10, TT12, WYW⁺10, ZTW⁺11].

Using [GBMG12, HGvB⁺13, LAM12, NTA14, NTM⁺10, OLC18, PCPZ18,

RASV⁺17, SSB⁺18, SHK13, SSYT14, AES11, AC15, BFD⁺11, BBTK⁺16,

BAY⁺14, CPPdAR⁺13, CAQS16, CCK⁺12, DWDH10, DTM18, FPP⁺19,

GPH⁺13, GKS12, HBR⁺14, HMF16, HGD14, HESU13, HSBA10, HML⁺14,

JSH12, JD16, JTH⁺13, KBA⁺14, KGM14, LC12, LBR⁺12, MH16, MMXC15,

MMP14, OHKC⁺12, PHL⁺18, PFJ10, RKBA14, RGM⁺11, SBT⁺19, SJ11,

SBNC⁺19, SPO⁺18, SC10, TIF⁺15, TB18, TPM⁺14, TMO⁺18, WGCC14,

WSTD10, ZLLM10]. **using-small** [TB18]. **Utah** [BPL⁺19a, HML⁺14].

utilization

[BS18a, ETKL12, HRPW15, MKB⁺19, OBM⁺11, PRS⁺18, SYdTP⁺11]. **UV**

[AdGAD14, EHW⁺15, SGVR16, TAE⁺18, VABMS⁺12]. **UV-A** [EHW⁺15].

UV-enhanced [AdGAD14]. **UV-induced** [TAE⁺18]. **UV-protection**

[SGVR16]. **UVR** [CCV⁺18, DMSHC16].

V [CFD⁺19]. **VA** [QS19]. **Valleys** [DKK⁺14, DTKMK15]. **Vallisneria**

[ZLLM10]. **Valu** [SPB⁺¹⁴]. **value** [JLG10, TYX⁺¹⁹]. **values** [DLP13, LHLT13]. **valve** [WHH⁺¹¹]. **valvometry** [SDS⁺¹¹]. **vanadium** [JBPM15]. **vanadium-dependent** [JBPM15]. **Vancouver** [DCRC16, RPMK17]. **Variability** [ASK⁺¹¹, HLJ12, LVM⁺¹⁰, MB10, RLSC⁺¹³, AFSM17, ACW⁺¹⁸, ASR⁺¹⁷, ADS⁺¹⁷, AMB⁺¹¹, BA14, BLW15, BJ15, BDK⁺¹⁷, BLS⁺¹⁶, CJS⁺¹⁷, Clo19, CH11, CKB⁺¹⁶, DCRC16, EED10, FWS⁺¹⁴, FMP⁺¹³, GNHGM13, KH16, KTK⁺¹³, KHK⁺¹⁹, LRM17, MCLT15, ML19, MWC⁺¹⁶, MGL⁺¹³, MBBW11, MHPW18, NSG⁺¹⁶, NLM⁺¹², PCD⁺¹⁹, PSS⁺¹⁴, PVLMT⁺¹⁶, PBL⁺¹⁸, RKBA14, RNK⁺¹⁶, RG13, RNT⁺¹⁹, RMH⁺¹⁷, RVvdP⁺¹⁷, RGGL⁺¹², RPL16, SHSK14, SPSG14, SLE10, STC⁺¹¹, SBR⁺¹³, SCQ⁺¹⁷, TNI19, TvBR⁺¹⁹, TEZ⁺¹⁸, TST⁺¹⁹, VLMTEW11, VML⁺¹⁹, VMMS⁺¹³, WB19, WTC⁺¹⁷, WJHS18, XFLM14, XDC⁺¹⁹, ZSM14]. **Variable** [BLM⁺¹⁰, BAY⁺¹⁴, BCF⁺¹⁷, CGP⁺¹⁹, DBMP⁺¹¹, FLM⁺¹⁹, GMS⁺¹⁸, HGD14, MKB⁺¹⁹, SLC18]. **variables** [CJC⁺¹², DC15, LGR⁺¹², VBGG⁺¹³]. **Variation** [BMD17, BDC⁺¹⁴, NCT⁺¹⁵, PFH⁺¹⁷, YJO⁺¹⁹, Ano21c, BBCM⁺¹³, BGP⁺¹⁵, CDA16, DPM18, ELJ⁺¹⁶, ETKL12, ETKL15, EKS⁺¹⁸, FZL⁺¹⁴, GFDC11, JPH⁺¹⁸, KSY11, LAM12, LH19, LGW⁺¹⁹, MDB19, NLHAA⁺¹⁷, PMPD13, PTS12, RS16, RR13, RMJ⁺¹⁸, RBI⁺¹⁰, SSU⁺¹⁶, SLP⁺¹⁴, SvKP⁺¹⁸, WRWPG19, WKK⁺¹¹, YYMN13, vBBM⁺¹⁹]. **Variations** [AC17, TNMV⁺¹⁰, USB⁺¹⁰, CNL⁺¹⁵, CB12, CB19, GLF17, HP19, HKU⁺¹⁰, HSC⁺¹¹, LCW17a, OY10, RPMK17, RGO⁺¹¹, Scu16, SRA10, SH10b, WLS⁺¹¹, WVl⁺¹⁸, YMB⁺¹⁸, ZKL⁺¹⁴]. **varies** [LDCT11, MTEM15, RCIB14]. **variety** [UIY⁺¹¹]. **various** [GdG11]. **varved** [JAD⁺¹³]. **varying** [BLH⁺¹³, GAH11, SSM⁺¹⁹, Tho19, THFG16]. **vector** [BBCM⁺¹³]. **vector-specific** [BBCM⁺¹³]. **vegetated** [RWC16]. **vegetation** [LN11, NBG17, SKGT17]. **vegetative** [WZTK15, ZXM⁺¹¹]. **vehicle** [SPO⁺¹⁸]. **velocities** [BM16, RMH⁺¹⁷]. **velocity** [MB10, SVS⁺¹⁹, VPC10, VLMTEW11]. **vent** [CGP⁺¹⁹, SPB⁺¹⁴]. **vents** [BOT⁺¹⁵]. **vermiculophylla** [GSPM13]. **Vertical** [AGLM17, BRF⁺¹⁷, HCW⁺¹⁰, HCS11, IPGP10, LKT17, LCW17a, OSC14, OR16, SPFP11, AGML18, BM16, BLG⁺¹⁵, BSB⁺¹⁸, DHG⁺¹⁷, EHW⁺¹⁵, FOT⁺¹⁵, HSR⁺¹⁰, HPS^{+10a}, HPL11, JSFC18, KWGS18, LMR14, MWSB18, MvdPK⁺¹⁵, OMSC13, OFGF12, PGB⁺¹⁹, PK14, PFJ10, RCV⁺¹⁴, RRCH⁺¹⁹, RRGCA19, RWF⁺¹², RHSD⁺¹⁰, SAS⁺¹¹, SMN⁺¹⁵, SVS⁺¹⁹, TGGZS⁺¹⁰, VMC⁺¹³, WCB⁺¹⁰, WMC⁺¹⁸, WFB⁺¹¹]. **Vertically** [JSFC18, HV16, NL14]. **vesiculosus** [ARB⁺¹⁹, RCJ15]. **Vestnesa** [HSP⁺¹⁶]. **via** [KJG10, SMMF19, TMH⁺¹⁰]. **viability** [KvdPVB13]. **vicinity** [GDD⁺¹⁶]. **Victoria** [GNHGM13, MRSE14, PHJ12, OrIA10]. **video** [TIF⁺¹⁵]. **view** [CAQS16, GvBBB17]. **Vigo** [VMCM⁺¹⁷]. **Viral** [EB12, CPF16, PS13, PD11, USB⁺¹⁰]. **Virginia** [EHT10]. **viridis** [RF13]. **virus** [HNL⁺¹³, MGS12, MMWR17]. **virus-host** [MMWR17]. **virus-induced** [MGS12]. **Viruses** [LTPK⁺¹⁸, BSB⁺¹⁰, LTX⁺¹⁷]. **viscous** [SGCC16]. **visual** [GDCM13]. **Vitamin**

[BWP⁺¹⁰, PBA⁺¹⁵, CEB⁺¹⁷, FLLH18, KMP⁺¹¹]. **vitamins** [KSWFG13].
volatile [HGG⁺¹⁷]. **volcanic** [MLL⁺¹⁴, MBE⁺¹³]. **Volcano**
 [FWFB10, LFB⁺¹⁰]. **volume** [GBK⁺¹⁸]. **vs**
 [BAA⁺¹³, CFD15, DBRB⁺¹⁵, GPCJ16, KMF10, MCGF⁺¹¹, NXL⁺¹⁸,
 PMY^{+19b}, SML⁺¹⁹, WRB⁺¹⁹, WMC⁺¹⁸]. **vulnerabilities** [SFS⁺¹⁶].
vulnerability [KS16, NFRU11, SBFB17, WKK⁺¹¹]. **vulpes** [HCD19].

Wadden [GML⁺¹², VPG⁺¹⁹]. **walled** [SMA15]. **wane** [TBAS14]. **Waquoit**
 [MDE11]. **warm**
 [BWS10, MDB16, RGO⁺¹¹, SKK⁺¹³, TIF⁺¹⁵, VLWV14, WRB⁺¹⁹, WTC⁺¹⁷].
warm-core [WRB⁺¹⁹]. **Warmer** [SHD⁺¹¹, CEPPR14, KSP⁺¹², WBB⁺¹⁷].
Warming [GBK⁺¹⁸, YAC⁺¹⁹, AHS11, CLHL12, DMSHC16, GHSR⁺¹⁶,
 MLGZ16, NRL15, NBDM16, PNR19, QFH18, RSE⁺¹⁷, RCIB14, RSTS⁺¹⁸,
 RPH⁺¹⁰, SMF10, Sch19, Tad10, VMF⁺¹¹, WSUC⁺¹⁸, WRH⁺¹⁷, XFH14,
 ZNVF16, ZHG15]. **warnings** [PCJK13]. **Washington** [KT13]. **Wastewater**
 [BHM⁺¹⁷, KCB⁺¹⁷, MACM11]. **Water**
 [CFD15, FCRW⁺¹⁶, HHM⁺¹⁸, Kus14, PMP⁺¹⁷, RMJ⁺¹⁸, Rie15, UA10,
 YAC⁺¹⁹, AFG⁺¹⁶, AES11, AdBVA10, AHS11, ÁSNCÁ⁺¹³, ASH⁺¹⁴,
 BHB⁺¹⁹, BPGE13, BC19, BGW⁺¹⁵, BNW^{+14b}, BGB⁺¹⁴, BBS12, CDW⁺¹⁶,
 CKP⁺¹⁵, Clo19, CKCEP10, CFW⁺¹⁴, DFWP16, DWDH10, EHT10,
 ERA⁺¹², FEW⁺¹⁴, FSCB11, FPD⁺¹⁰, FLP⁺¹⁰, FVSL19, FDB⁺¹⁵, FBFR13,
 FDS⁺¹⁸, FYT⁺¹², GTPB⁺¹¹, GGC⁺¹⁴, GdVT⁺¹¹, GDD⁺¹⁶, GGL⁺¹⁸,
 GAM⁺¹⁹, HCK10, HMV⁺¹⁸, HT17a, HJB⁺¹², HCW⁺¹⁰, HCLS11, HMHI13,
 HD19, HGvB⁺¹³, IHSS⁺¹⁹, JCS⁺¹⁸, JAD⁺¹³, JMM14, JLR⁺¹⁷, KYC⁺¹⁵,
 KCL⁺¹⁴, Kir13, KB15, KKP⁺¹⁹, KFP⁺¹⁸, KZR⁺¹⁶, KNL10, LKF⁺¹⁸,
 LFGK10, LH19, LALM16, LBB18, LGC13a, LGC13b, MKB⁺¹⁹, MGW⁺¹³,
 MVT⁺¹⁷, MMH⁺¹⁸, MW15, MRC⁺¹⁶, NO17, NWT⁺¹⁹, OBT⁺¹¹, PMP⁺¹²,
 PH15, PHLSSS19, RPI⁺¹², RSG11, RWM⁺¹⁹, RHSD⁺¹⁰, SVLS⁺¹⁶,
 SCR⁺¹², SNO⁺¹⁶, SLK⁺¹⁴, SJB⁺¹⁹, SAPI14]. **water**
 [SBdB10, SBK18, SWD11, SCL⁺¹⁹, SSB⁺¹⁶, TIF⁺¹⁵, TvBR⁺¹⁹, TBSL17,
 TMH⁺¹⁸, UCOG16, UIY⁺¹¹, VLDM19, VLWV14, VHR⁺¹¹, WP14, WL18,
 WCM19, WDX⁺¹¹, WCJ⁺¹⁷, WBZ⁺¹³, WXMS10, WJHS18, WFB⁺¹¹,
 WSB⁺¹³, YKT⁺¹⁵, YWL⁺¹⁷, ZZAC13, ZOB⁺¹⁵, ZHG15]. **water-column**
 [ERA⁺¹², SSB⁺¹⁶]. **water-level** [GTPB⁺¹¹]. **water-quality** [Clo19].
Waterborne [HNZ⁺¹⁶]. **waterlouse** [FA10]. **waters**
 [ACA⁺¹¹, ADS⁺¹⁷, BDB⁺¹⁴, BHS⁺¹⁶, BSCG17, BHG⁺¹⁸, BHB⁺¹²,
 CCV⁺¹⁸, CDA16, CWHP14, EBMR12, GMBL16, GM12, HJT^{+13a}, HMV12,
 HATF17, HSC⁺¹⁴, JYS18, JM16, JHW⁺¹⁹, JBT11, KP13, KMH⁺¹⁷,
 LDY⁺¹⁶, LK15, LCZ⁺¹⁹, LÁSDC18, MLCD13, MBBG⁺¹², OMB⁺¹⁶,
 PSZ⁺¹³, Piw19, RS19, RGGL⁺¹², RGLM⁺¹², SAH⁺¹⁹, SWD⁺¹⁴, SWM⁺¹⁸,
 SHK13, SW14, SOH⁺¹⁸, SL10a, SDMK10, TMF⁺¹⁴, TFLS14, WMBR13,
 WSM⁺¹⁹, WM17, YHS⁺¹⁷, vH19, HJT^{+13b}]. **Watershed**
 [TT12, BMBI12, DTM18, HAA⁺¹⁹, JLR⁺¹⁷, PFH⁺¹⁷, SHL⁺¹⁸, UIY⁺¹¹].
watersheds [CBK18, TWP13]. **watsonii** [GFH13, MFK⁺¹³]. **Wave**

[HCD19, HFP10, RCV⁺¹⁴, VP15b, BBR12, IOB⁺¹¹, JD16, KFJ13, MMGO^{+17b}, MBBW11, MP17, NBG17, SVLS⁺¹⁶, SPG⁺¹³, VMMS⁺¹³, WKS13, WZTK15, ZWA⁺¹⁴, vH19]. **wave-driven** [WKS13, WZTK15]. **wave-exposed** [MBBW11]. **wave-imposed** [JD16]. **Wave-induced** [HFP10, RCV⁺¹⁴]. **Waves** [LdlSB⁺¹², ABS⁺¹⁹, CTH15, NI10, NRL15, PPL10, RDC⁺¹⁹, RDZ⁺¹³, SGH12, SPG⁺¹³, SI10, SSP⁺¹⁸, SSN12, VPMrI12, VBBR15, VMI13, VMCM⁺¹⁷]. **wax** [CBP12, PT11, TBAS14]. **Weak** [KBJ⁺¹⁸, NZH⁺¹¹, XSAM12]. **weakly** [BHB⁺¹⁹, RSJ⁺¹⁸]. **weather** [BJ15, JLR⁺¹⁷, KTK⁺¹³]. **weather-climate** [BJ15]. **web** [BCC⁺¹², CPPdAR⁺¹³, CS12, DFK⁺¹⁷, DvOR⁺¹⁶, FHR⁺¹⁵, FCRW⁺¹⁶, FPSL18, HOD⁺¹⁷, KGL⁺¹⁶, KWB⁺¹⁶, LEN⁺¹⁵, LJL⁺¹⁸, LH13, NB17, PH13, PDER10, PLE⁺¹⁷, RHV⁺¹³, SCF⁺¹⁵, ŠNZ⁺¹⁴, SMG12, SL10b, VMF⁺¹¹, VMC⁺¹³, WDJF12, WRO⁺¹¹, WD15, vOSH12]. **webs** [CBF10, DML17, DRP⁺¹⁷, GLS⁺¹³, GFDC11, GRDPL14, HDDH⁺¹⁷, JTV⁺¹⁶, KBA⁺¹², LPLH18, LWWC⁺¹⁶, MDF⁺¹⁴, MPK⁺¹³, MBLD15, ŠGN⁺¹⁹, SBA⁺¹¹, SCP⁺¹⁶, TIF⁺¹⁵]. **webs-evidence** [JTV⁺¹⁶]. **Weddell** [MdBKL13]. **Wedderburn** [SdlFdIF⁺¹⁰]. **wedge** [REE⁺¹², SCR⁺¹²]. **week** [SSH⁺¹⁴]. **Weekly** [Piw19, RMNZ12]. **weight** [ASSG12, LCW17a, LFC17]. **weissflogii** [HBB⁺¹¹, TJJ⁺¹⁵]. **well** [TMF⁺¹⁴, TMH⁺¹⁰]. **well-oxygenated** [TMF⁺¹⁴, TMH⁺¹⁰]. **West** [BBTK⁺¹⁶, RVvdP⁺¹⁷, RPMK17, SS12b, SS12c, VdRA⁺¹⁹, RHV⁺¹³]. **Western** [FGMN17, HNSM12, WMI⁺¹⁷, BSR⁺¹⁷, BBK⁺¹⁵, CLJ⁺¹⁹, CSS⁺¹⁶, DDH⁺¹⁹, DKSA19, FMM⁺¹⁴, HCH⁺¹⁹, JABZ19, JHLK⁺¹⁹, Ker17, LEK⁺¹⁸, NRS16, NO17, OBL⁺¹⁹, PE13, RS19, RWM⁺¹⁴, SKK⁺¹³, SFI⁺¹⁸, SBC⁺¹⁷, SSN12, TLG⁺¹¹, UFW⁺¹⁸, VCM13, WCC⁺¹⁷, WTC⁺¹⁷, HVJ⁺¹⁹, LYH17, MMD18, NXL⁺¹⁸, PTS12, TSSH19, WSTD10]. **wet** [dCGS19]. **wet-phase** [dCGS19]. **Wetland** [HMFF10, JMJ⁺¹⁹, BFD⁺¹¹, BSB⁺¹⁸, EED10, FSCB11, MF19, OHKC⁺¹², RHMSE15, SSH⁺¹⁶, TT12, TZD⁺¹⁵, VZJ⁺¹⁷, WVGB10]. **Wetland-driven** [HMFF10]. **wetlands** [ARML10, CSU13, FMP⁺¹³, MA18, PBL⁺¹⁸, SML⁺¹⁹]. **WH8102** [MZB⁺¹⁵]. **whales** [BCF⁺¹⁷, CdC⁺¹¹, NSO19]. **Where** [AHH⁺¹⁶]. **which** [DKSA19]. **Who** [WXF⁺¹⁵]. **whole** [DKG15, DFK⁺¹⁷, DTM18, EED10, GKS12, KBJ⁺¹⁸, NSG⁺¹⁶, OHKC⁺¹², PCJK13, PCW19, ZCK⁺¹⁶]. **whole-ecosystem** [OHKC⁺¹²]. **whole-lake** [GKS12, PCW19, ZCK⁺¹⁶]. **whole-system** [EED10]. **wide** [Meh10]. **widens** [IH18]. **Widespread** [SHSK14, PSD⁺¹⁷, SDH⁺¹⁴]. **will** [PSH⁺¹¹, SPTS15]. **Willamette** [APP12]. **Winam** [PHJ12, OrIA10]. **Wind** [LS15, WMI⁺¹⁷, ABS⁺¹⁹, BSSR10, CFVU11, HSR15, HCC⁺¹³, ILPL13, KFJ13, MAF19, PBV16, SPG⁺¹³, SSM⁺¹⁹, VPMrI12, XDC⁺¹⁹]. **Wind-driven** [LS15, BSSR10, CFVU11, HSR15, HCC⁺¹³, MAF19]. **wind-induced** [XDC⁺¹⁹]. **wind-wave** [KFJ13]. **Windermere** [SLPM15]. **windows** [FHS10]. **windy** [MFL11]. **Winnipeg** [BLS⁺¹⁶]. **Winter** [GGTC⁺¹⁸, JLR⁺¹⁷, KIH⁺¹⁵, TA14, FPPA⁺¹¹, GLMG15, MQP⁺¹⁶,

MDB19, MPAS17, NHP17, OBI12, PWS⁺¹¹, RLB⁺¹⁰, RVvdP⁺¹⁷, RGLM⁺¹², SSFF12, VLWV14]. **Winter-mixing** [GGTC⁺¹⁸]. **Wintertime** [BJ15, VCM13]. **Wisconsin** [WMC⁺¹⁵]. **Within** [UIY⁺¹¹, AJG13, BYD19, BVC⁺¹⁴, BLLB12, CBFK19, DTKMK15, EM13, EED10, FLM⁺¹⁹, FDH⁺¹⁴, IR16, JMJ⁺¹⁹, LCM⁺¹⁷, LCS⁺¹⁹, MPM⁺¹⁵, MAB⁺¹⁷, MBH⁺¹⁵, MRC⁺¹⁶, NRS16, PTS12, RHV⁺¹³, RS19, RPB17, RMDK10, SC10, TNMV⁺¹⁰, WBG⁺¹⁶, WZTK15, WKK⁺¹¹, WMM18, WJHS18, ZKL⁺¹⁴]. **Within-lake** [UIY⁺¹¹]. **within-population** [ZKL⁺¹⁴]. **without** [LWE⁺¹⁹, SK19, WCJ⁺¹⁷]. **Woods** [RPH⁺¹⁰]. **woody** [WLL⁺¹¹]. **world** [WXF⁺¹⁵]. **worms** [RF13]. **Wyoming** [BBK⁺¹⁵].

xanthophyll [BHV⁺¹⁷, KMF10]. **Xestospongia** [MBLP11].

Yangtze [GLI⁺¹⁵, ZZW16]. **Yarra** [REE⁺¹²]. **year** [AMNU16, CHHT18, EMH12, SDS⁺¹¹, SGRB10, WRS13]. **years** [AEH19, BPRG⁺¹⁸, CSC⁺¹¹, DKG15, DBRB⁺¹⁵, FVSL19, JAD⁺¹³, KIH⁺¹⁵, LYL⁺¹⁷, SSGL19]. **Yellow** [HZC⁺¹³, LZC⁺¹⁴, LLW⁺¹⁸, SW14, SCQ⁺¹⁷, TEZ⁺¹⁸, WXF⁺¹⁵, WLR17, XZGW17]. **yield** [BRF⁺¹⁷, EMB12, KBT16]. **York** [HHM⁺¹⁸, EMH12, EP14, EHT10, HMFF10, HMFF12, PE16b, QS19]. **Young** [MSAM18]. **Younger** [Ano17l, LOS12, ZXZ17b]. **Yungui** [LCW^{+17b}, ZZY⁺¹⁰].

Zealand [MWS10]. **zebra** [CS12]. **zetterstedtii** [SJM11]. **Zhejiang** [JHW⁺¹⁹]. **Zinc** [SES18, HS18, TNMV⁺¹⁰, XSAM12]. **Zizaniopsis** [LHSBP18]. **zone** [BG10a, BVvB⁺¹⁹, BSC⁺¹⁵, CTG15, DTFR12, FUS⁺¹⁶, FCD12, FRP⁺¹⁴, HMFF12, JD16, KBH⁺¹⁹, KMC⁺¹⁵, KBL⁺¹⁰, LKT17, MSSH12, MGK15, MG17, MBH⁺¹⁵, MD15, NHS⁺¹², OBT⁺¹¹, RGB⁺¹⁹, SBKO18, SC10, TSB⁺¹⁹, VFME18, VGM14, WMM18]. **zones** [CRJ⁺¹⁴, CMK⁺¹⁰, GCH⁺¹⁸, GYP⁺¹⁸, HFP10, JWS15, MSM⁺¹⁷, ORC⁺¹⁷, SBdB10, SPG⁺¹³, YYMN13]. **zooplankter** [BH16, WLW18]. **zooplanktivorous** [GBK⁺¹⁸]. **Zooplanktivory** [Edm11]. **Zooplankton** [GTPB⁺¹¹, GNWDL19, Kiø13, PCJK13, WRS13, AAO⁺¹⁹, AA18, BBSK18, BSSR10, BBQ⁺¹⁰, BSH16, BCVAn10, BSY⁺¹⁶, BCM⁺¹⁷, CPOMA15, CHV⁺¹⁷, DHG⁺¹⁷, DLP13, DBRB⁺¹⁵, EHW⁺¹⁵, FWvD⁺¹⁸, FLLH18, GLMG15, GMJW13, GBT⁺¹⁷, HRMD19, HPCD13, HDP15, HV16, HLFM⁺¹⁰, HSTK15, HMH⁺¹⁶, HPL11, IBPG17, KVMA17, KGM14, KSTA18a, KGT12, KBL⁺¹⁰, LL11, LWrDM⁺¹², LWWC⁺¹⁶, LV16, MBK⁺¹¹, MF19, MKK15, MXWC11, MGL⁺¹³, MSM⁺¹⁷, MDSG18, NZH⁺¹¹, NL14, OR16, PGB⁺¹⁹, PBV16, PVA⁺¹⁹, RMF11, RKLH11, RRGCA19, SMMF19, SGJB14, SWM⁺¹⁸, SRM⁺¹⁸, SHL⁺¹⁸, VKC18, VABMS⁺¹², WRB⁺¹⁹, WCB⁺¹⁰, WCCP14, WFB⁺¹¹, WBB⁺¹⁷, YP18, dKYH⁺¹², dKNL⁺¹⁵]. **zooxanthellate** [CRB⁺¹⁷]. **Zostera** [AHJS15, DIC⁺¹⁸, EMO⁺¹¹, FJBP15, HHHT19, HBM11, LdISB⁺¹², MZH15, MHH⁺¹⁷, MMBP18, RBM14].

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