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## Title word cross-reference

**\$104.00** [Ryp13]. **\$105.00** [Cha13]. **\$149** [Pet15]. **\$167.99** [Fle16]. **\$189**  
[Pet15]. **\$209.95** [Fle16]. **\$25** [LDA<sup>+</sup>13]. **\$35.00** [LDA<sup>+</sup>13, Smi13]. **\$40.00**  
[Pra14]. **\$48** [Zyd11]. **\$55.30** [Chi13, Chr14, Nel14a]. **\$64.56** [HCD<sup>+</sup>14]. **\$69**  
[Zyd11]. **\$72.80** [Ryp13]. **\$75** [Gid14]. **\$79.00** [Chi13, Chr14, Nel14a].  
**\$85.00** [Var13]. **\$99.95** [Qui16, Shi13]. + [SZZ10]. <sup>13</sup> [GDPW10]. <sup>18</sup>  
[GDPW10]. **\$A130.00** [Ber13].  $\delta$  [GDPW10].  $S^4$  [Dud19].

-ATPase [SZZ10].

. [Zyd11].

**1\*** [HRR<sup>+</sup>11]. **11-Ketotestosterone** [MGK<sup>+</sup>18]. **15-Year** [DCJ<sup>+</sup>13].

**2010** [Yas16]. **20E** [BTWB17]. **222** [BLG<sup>+</sup>13, PET<sup>+</sup>17].

**3-Trifluoromethyl-4-Nitrophenol** [CHB<sup>+12</sup>]. **30-Year** [CAB11].

**8-mm** [CHR<sup>+17</sup>].

**Abalone** [BRS<sup>+12</sup>]. **Abandonment** [LS10b]. **Abilities** [FCG<sup>+17</sup>]. **Ability** [FMJ11, FWSW<sup>+15</sup>, ZZD10]. **Abiotic** [DHA<sup>+17</sup>]. **Above** [HP14, BLB<sup>+13</sup>]. **Above-Optimal** [HP14]. **Absorbable** [JLA17]. **Abundance** [ABS<sup>+11</sup>, Arc16, BPS11, BAKT12, BS15, BRS<sup>+12</sup>, BB10b, CKC<sup>+12</sup>, CYW<sup>+19</sup>, FSP<sup>+17</sup>, HPF<sup>+16</sup>, HAG13, HW14, HJS<sup>+16</sup>, HEW12, HMP18, KYK17, MAS10, MBG10, MHE12, MFH13, MOS13, MCO<sup>+10</sup>, OI16, PT10, PB13, PPJ15, PMN19, PGS13, PDM<sup>+14</sup>, PA10, RH14, RSB14, RSL11, RGM<sup>+11</sup>, SP10, SWB<sup>+16</sup>, TA13, WBMG10, WS15, ZBHW16, ZKB<sup>+15</sup>]. **Abundances** [Han11]. **Accelerating** [EGAW12]. **Access** [AJFO10, AJF13a, AJF13b]. **Acclimation** [BRGR10]. **Accounting** [HRG12]. **Accumulation** [HSG10]. **Accuracy** [AHS11a, BFM10, HSF12, MM10, TL14]. **Accurate** [BSSP18]. **Accurately** [DYWY17, MGK<sup>+18</sup>]. **Acid** [HWH10]. **Acidification** [BGLP19]. **Acids** [YSW<sup>+14</sup>]. **Acipenser** [FCG<sup>+17</sup>]. **Acknowledgments** [Ano18g, Ano19h]. **Acoustic** [Cha13, CHW<sup>+13</sup>, DBC<sup>+10</sup>, DBB<sup>+12</sup>, EPT<sup>+16</sup>, GZB12, HJM<sup>+12</sup>, JDS15, KHF<sup>+18</sup>, LBD<sup>+16</sup>, MCSF14, MGW13, PSH<sup>+19</sup>, REN17, RPVS15, SNP<sup>+10</sup>, SFF14, SJFF15, SHH<sup>+19</sup>]. **Acoustic-Tagged** [HJM<sup>+12</sup>, REN17]. **Acoustically** [NBC15]. **Acoustically-Tagged** [NBC15]. **Acoustics** [DMR<sup>+10</sup>]. **Across** [FFYI16, RPC14, SMM13, BBM<sup>+14</sup>, CKM<sup>+11</sup>, CJG13, DA16, FBF10, FWD10, FDWG13, FA10, PPH15, PDH<sup>+18</sup>, WDW11]. **Acrylic** [BN16]. **Act** [ACDL19, WSK19]. **Action** [BC12]. **Actions** [WCYH18]. **Actively** [ACMM<sup>+15</sup>]. **Activities** [SJFF15, WRQH17]. **Activity** [BBZGB15, BMM10, BNW<sup>+12</sup>, GZB12, MDP12, SB12a, SZZ10, WB15a]. **acuta** [SPCJ11]. **Acute** [MFAS<sup>+12</sup>, SDOK11]. **Adaptation** [DZW<sup>+12</sup>, TNOU11]. **Adaptations** [Fre19]. **Adaptive** [MHN11]. **Additions** [MWS10]. **Additive** [YJW11]. **Addressing** [TLM<sup>+19</sup>]. **Adfluvial** [ACDL19, BP13, HSM12, IRJ11, JJNB17]. **Adirondack** [BGLP19, BSGB17, JK17, RJWK10]. **Adjacent** [TT17]. **Admixture** [CCKF11]. **Adult** [ASJ17, BHC<sup>+18</sup>, BHS<sup>+17</sup>, BWD<sup>+17</sup>, CR10, CSDW10, CJL<sup>+14</sup>, CTS<sup>+15</sup>, CVB14, DCS<sup>+17</sup>, DEP<sup>+18</sup>, DH11, FSJ<sup>+11</sup>, GCM12, GKG<sup>+19</sup>, HKKS14, HN11, HBA<sup>+15</sup>, JCK<sup>+12</sup>, KST<sup>+12</sup>, KCJ<sup>+15</sup>, KHD<sup>+14</sup>, LUC<sup>+15</sup>, PM14, RSB14, RHR<sup>+15</sup>, SGP16, Str10, Str12, TA13, TCBI11, VFB<sup>+16</sup>, YSC10, YHWH10]. **Adulthood** [AHS10, EHC<sup>+14</sup>, FBWZ19]. **Adults** [JCS14, KPS<sup>+19</sup>, PPP<sup>+13</sup>]. **Advances** [Chi13]. **Advancing** [Chr14]. **Advantages** [ACB<sup>+14</sup>, DWE<sup>+19</sup>]. **Aerial** [DFB15]. **Affect** [BVA11, FBF10, MDT10, NPW12, SW11, TL15, WHP14, ZSVK13]. **Affected** [CEFQ11]. **Affecting** [CT12, KLR<sup>+15</sup>, OTR<sup>+14</sup>, RSVAB19, RBH<sup>+12</sup>]. **Affects** [JDS15, RFM<sup>+15</sup>, SAF<sup>+19</sup>]. **AFS** [Zyd11]. **after** [BAKT12, DSHG10,

DEW<sup>+14</sup>, HGB<sup>+16</sup>, HCZ13, HS13, MBG10, SRP<sup>+18</sup>, WCMP13]. **Age** [ASP<sup>+18</sup>, AS17, BMGL12, BBF<sup>+18</sup>, BMH19, BA13, BBS12, BSR12, BSSP18, CFHE11, CGA13, DLHF16, DL13, DMHO12, GN13, HNK<sup>+12</sup>, HS17, HBS12, Hoe17, HKO<sup>+18</sup>, HWHF14, JRBC13, JPHK10, KGW14, KSSK<sup>+17</sup>, KQ11, KK16, KDS18, KKM11, LS18, Mat18, MM10, MGK<sup>+18</sup>, Mic10, MFH13, MD11, MBPP18, MLC13, MS12, NAWM14, NTHR18, OWN11, OWP13, PW10b, PDH<sup>+18</sup>, PA10, RL14, RMMGPB16, RDH11, SR10, SMO<sup>+14</sup>, SDW<sup>+17a</sup>, SW11, SS11, SB12b, SPR<sup>+16</sup>, SSM16, SMH<sup>+11</sup>, SKBS18, SHP<sup>+19</sup>, SAW<sup>+17</sup>, TRMC15, TP11, TA12, UWL12a, WDW11, ZZMC13]. **Age-0** [BBF<sup>+18</sup>, HBS12, HWHF14, JRBC13, KGW14, KKM11, LS18, Mic10, MFH13, MD11, MS12, NTHR18, PW10b, PA10, RDH11, SDW<sup>+17a</sup>, SW11, SS11, SPR<sup>+16</sup>, SMH<sup>+11</sup>, WDW11]. **Age-1** [MGK<sup>+18</sup>]. **Age-2** [MGK<sup>+18</sup>]. **Age-Selective** [KK16]. **Age-Specific** [BA13, RL14, TP11]. **Age-Structured** [BBS12, SR10]. **Ages** [GBB<sup>+14</sup>]. **Aging** [LSJN13, LS10a]. **Air** [CCB16]. **Alabama** [CHPG12, SYH<sup>+15</sup>, YITI12]. **Alarm** [LRM<sup>+10</sup>]. **Alaska** [GSA<sup>+19</sup>, Yas16, AHS11a, BBC<sup>+14a</sup>, BBC<sup>+14b</sup>, BDM<sup>+10</sup>, BCS19, CTS<sup>+15</sup>, CHS<sup>+11</sup>, DSHG10, DF11, DHRQ10, EBG18, FSN<sup>+13</sup>, FRM18, FFYI16, KQ11, MHF12, MSS<sup>+11</sup>, NRZ<sup>+13</sup>, OWP<sup>+17</sup>, WTB10]. **Alaskan** [BES15, MWS10]. **Albert** [Var13]. **Aleutian** [GRS12, Spi12]. **Alevins** [RB13]. **Alewife** [CBMR14, EBA<sup>+19</sup>, MJS<sup>+19</sup>, MCO<sup>+10</sup>, SPR<sup>+16</sup>, SRP<sup>+18</sup>]. **Alewives** [FHCSN12, GGS10, GDG<sup>+15</sup>, RBK<sup>+11</sup>]. **Alga** [VFFP13]. **Algorithm** [MDP12]. **Alkaline** [BRGR10]. **Alligator** [BSR12, BSD13, DSM18, FDSB18, LS16, MSD18, RAB<sup>+18</sup>, SDSB18]. **Allometric** [CTN11]. **Alluvial** [AM13, BHP<sup>+15</sup>]. **Along** [ZHWR11, BT16, FWSW<sup>+15</sup>, GRS12, HT13, RSL11, SGP16, TT17, WB15a, WBMG10, YYA<sup>+16</sup>]. **Also** [Hoe17]. **Altamaha** [PB13, SP10]. **Alter** [CS16, LUC<sup>+15</sup>]. **Alteration** [FPD12, SWS10]. **Altered** [DSRA12, LSSYL10]. **Alternate** [JDS15]. **Alternative** [BVA11, MNM<sup>+17</sup>, NYCC19, RKEB13b]. **Ambient** [LRM<sup>+10</sup>]. **America** [BDTD17, BWDM11, GMB<sup>+19</sup>, PSGB13, Wei10, WBW<sup>+13</sup>]. **American** [Chi13, Chr14, Gid14, HKO<sup>+18</sup>, LDA<sup>+13</sup>, Nel14a, Ryp13, SRMB<sup>+15</sup>, Zyd11, ACK17, Ano13b, Ano14b, Ano16, Ano17b, Ano19i, BJA<sup>+13</sup>, CPS<sup>+15</sup>, CTP<sup>+12</sup>, CEM<sup>+19</sup>, DMCO11, DMHO12, EWSR16, FSW10, FBB<sup>+13</sup>, GPBA18, GBZ14, HCR14, HTR13, HBB17, HHES13, HEW12, HMO14, MLC13, RH14, RLL<sup>+19</sup>, SJGL16, SH12, SS15b, SAH<sup>+14</sup>, WL13, ZZMC13]. **amidst** [KGC<sup>+12</sup>]. **Ammocoetes** [HB17]. **Among** [HN13, PF11a, BLCN<sup>+10</sup>, BSS18, BGB<sup>+16</sup>, BEMF11, CN11, CR10, CGB19, CJG13, EFC<sup>+11</sup>, FBWZ19, FBS<sup>+14</sup>, HR15, HLB14, HRR<sup>+11</sup>, HBTT11, HSE<sup>+12</sup>, KDS18, LEM<sup>+11</sup>, MHN11, MSWS10, MFAS<sup>+12</sup>, MWSS13, MLBS<sup>+13</sup>, PPF<sup>+13</sup>, PHM17, PTPS10, PL13, SCC17, SF15, WSI14, WSQ<sup>+15</sup>, WKS<sup>+19</sup>, WCQD18, WLW16]. **Among-Pass** [PF11a]. **Among-Stream** [HN13]. **Amplifier** [KM10]. **Anadromous** [BBC14c, BWRA16, BCS19, GGS10, GDG<sup>+15</sup>, GDST16, HCZ13, HS13, HMO14, MC14, PBW16, RHW15, SHM<sup>+12</sup>, SR15, SHC<sup>+16</sup>, SHCB16].

**Anadromy** [HGB<sup>+16</sup>, NZF<sup>+11</sup>, WAR<sup>12</sup>]. **Anaerobic** [SB12a]. **Analog** [MWS10]. **Analogs** [KPZ<sup>+12</sup>]. **Analyses** [AHS11a, BL11, DWE<sup>+18</sup>, DSRA12, WMW<sup>+12</sup>, WMG<sup>+14</sup>]. **Analysis** [BMP<sup>+17</sup>, DCJ<sup>+13</sup>, DYWY17, EPT<sup>+16</sup>, FSN<sup>+13</sup>, GvdHBC12, GKBG12, GRS12, GNV<sup>+14</sup>, GWG<sup>+19</sup>, HH11, HHJH17, HWH10, HDH16, HCNL10, KHHG13, KPZ<sup>+12</sup>, MSW<sup>+10</sup>, MVK12, PZS17, RB12, RHKD12, RMMGPB16, RBK<sup>+11</sup>, SPM<sup>+17</sup>, SBC<sup>+16</sup>, VSC15, WB13b, ZM10]. **Analytical** [PSM12]. **Analyzed** [GSVS<sup>+10</sup>]. **Analyzing** [RPSB14]. **Ancestry** [MMY12]. **Ancient** [DKS18]. **Andrew** [Chi13]. **Anesthesia** [CJL<sup>+14</sup>]. **Anesthetic** [VSB<sup>+14</sup>]. **Anesthetics** [BLG<sup>+13</sup>]. **Angled** [HBC15]. **Angler** [CML19, LSV<sup>+13</sup>, RSBF14, SC13]. **Angler-Caught** [RSBF14]. **Angling** [ARC<sup>+13</sup>, BDS10, BNW<sup>+12</sup>, DKS18, HVD<sup>+16</sup>, LUC<sup>+15</sup>, PWP13, THL<sup>+17</sup>, VWS13]. **Angling-Induced** [THL<sup>+17</sup>]. **Angling-Sized** [BDS10]. **anguillicaudatus** [KU12, UK14]. **Annala** [Chr14]. **Annual** [CR10, GDST16, KHW<sup>+14</sup>, MKH10, MBL<sup>+18</sup>, PGWS15, REN17, SR10, ZKH12]. **Annuli** [DMCO11]. **Anthropogenic** [BDTD17, TW14]. **Antipredator** [SS15b]. **Apache** [PB17, RB13, RBF14]. **Apalachicola** [YITI12, SYH<sup>+15</sup>]. **Aperture** [BDM<sup>+10</sup>, TFM<sup>+18</sup>]. **Apex** [HB18, KBG<sup>+18</sup>, SGK16]. **Appalachian** [BMP<sup>+17</sup>, FK18, FKF<sup>+19a</sup>, FKF<sup>+19b</sup>, KP14, PHHM12, TNS<sup>+14</sup>, WK13, WCD<sup>+11</sup>]. **Apparent** [HMSG<sup>+11</sup>, PGWS15, WCQD18]. **Applicable** [DMCO11]. **Application** [BBG<sup>+18</sup>, CVL<sup>+19</sup>, CYW<sup>+19</sup>, FSN<sup>+13</sup>, PPF<sup>+13</sup>, VSC15]. **Applications** [HS17, MH11]. **Approach** [ACRA10, Chr14, Gre12, GBF12, HJS<sup>+16</sup>, JDS15, KP14, KRM13, OGM<sup>+15</sup>, PSM12, THGA15, TNS<sup>+14</sup>, WRP<sup>+12</sup>]. **Approaches** [TBGM12]. **Aquaculture** [CEM<sup>+19</sup>, DHB15]. **Aquaculture-Based** [CEM<sup>+19</sup>]. **Aquatic** [HWH10, KBG<sup>+18</sup>, MWS10, NTHR18]. **AQUI** [BTWB17]. **AQUI-S** [BTWB17]. **Arancibia** [Fle16]. **Arber** [Chr14]. **Archipelago** [BRS<sup>+12</sup>, KGC<sup>+12</sup>]. **Archival** [NB12, RMDA11]. **Archived** [OPS<sup>+14</sup>]. **Arctic** [BCS19, BS13, BDM<sup>+10</sup>, CHH<sup>+16</sup>, CPP<sup>+14</sup>, DHA<sup>+17</sup>, DMW<sup>+19</sup>, GDST16, RPC14, SS18b, TFM<sup>+18</sup>, WRP<sup>+12</sup>]. **Area** [EBG18, GWG<sup>+19</sup>, HGS<sup>+16</sup>, TBL<sup>+17</sup>]. **Areas** [ASJ17, BDM<sup>+10</sup>, FM17]. **Arizona** [DSAM12, ESD<sup>+17</sup>, CYP11, SRMB<sup>+14</sup>, Sto10]. **Arkansas** [FM17, GBF12, SJ11]. **Aromatic** [MHPB14]. **Arrival** [BA13, MM17, RCC<sup>+13</sup>]. **Arrowtooth** [MHF12]. **Arroyo** [BMOF16]. **Artificial** [AIC13, DSB<sup>+18</sup>, EWW13, PS14, SKP<sup>+10</sup>, SHR<sup>+12</sup>, SAW<sup>+17</sup>, WZCT12]. **Asian** [CCL<sup>+19</sup>]. **Assay** [CHO<sup>+15</sup>, LSD<sup>+14</sup>]. **Assays** [BSSM12, DPS14, GMB<sup>+19</sup>]. **Assemblage** [BWHF17, BR11, BKC<sup>+19</sup>, CT16, FQW<sup>+10</sup>, HCD10, JZBP16, KGC<sup>+12</sup>, KCZH14, KP14, Lan16, MRPW19, MSK15, MKK15, MBG<sup>+11</sup>, PTWK11, RBZ<sup>+17</sup>, WSQ<sup>+15</sup>, WB15b]. **Assemblages** [AM13, BEWM10, BP10, CHPG12, DSBS14, DM11a, GBW16, GWG<sup>+19</sup>, IB14, KWW14, MP10, MKH13, RW11, SFB16, SGB13, THNG14, TF13,

WDR16, WCZ<sup>+18</sup>, WK13, WBWSK12, vVO10]. **Assess** [BES15, GvdHBC12, JPFB13, KMKS13, MLS<sup>+13</sup>, RAB<sup>+18</sup>]. **Assessed** [SJFF15]. **Assessing** [ARC<sup>+13</sup>, CCH15, Gre12, HMTTC12, HARL18, JRBC13, Lis14, Lis15, MCH<sup>+13</sup>, NDC<sup>+14</sup>, PWP13, RNG<sup>+13</sup>, WK13]. **Assessment** [BBAK19, BSCA17, BBS12, CGDL18, DHA<sup>+17</sup>, DBC<sup>+10</sup>, FSC<sup>+13</sup>, HSS17, HCW14, HLH14, HKZ11, KCZH14, KVA<sup>+19</sup>, LSJN13, MCW<sup>+14</sup>, MT19, OSA<sup>+17</sup>, RL14, SJMG14]. **Assessments** [LDP19, RJ11]. **Assigning** [GBB<sup>+14</sup>]. **Assist** [LFB<sup>+15</sup>]. **Assistance** [RHR<sup>+15</sup>]. **Associated** [ARB<sup>+18</sup>, ACRAM11, BNC<sup>+15</sup>, BGV11, CM11b, DSBS14, GPBA18, GWG<sup>+19</sup>, HHJH17, JC16, NZF<sup>+11</sup>, VJGV11]. **Association** [CBW<sup>+16</sup>, DHB15]. **Associations** [BQHR17, CAB11, DGMC17, DWGF11, FBWZ19, HGSG17, Lan16, SL16]. **Asymmetric** [WDDS13]. **At-Risk** [FBWZ19]. **Atchafalaya** [MKK15]. **Atlantic** [AKM12, DG19, GN13, Han18, JZBP16, NG13, NAWM14, RBE<sup>+10</sup>, ASJ15, ASJ16, ASJ17, AHS10, AS17, BMF<sup>+15</sup>, BP16, BHLK10, BMGL12, BGV<sup>+12</sup>, BLG<sup>+13</sup>, BK11, BMC<sup>+13</sup>, DCS<sup>+17</sup>, FZZ<sup>+10</sup>, FBP11, FP19, FGW<sup>+16</sup>, GvdHBC12, GCA<sup>+18</sup>, Goo15, HKW<sup>+14</sup>, HPF<sup>+16</sup>, Han11, HCR14, HSS17, HKZ11, HMSG<sup>+11</sup>, HWN15, HWHF14, KHW<sup>+14</sup>, KSSK<sup>+17</sup>, LKS<sup>+12</sup>, LMPvdH18, LRM<sup>+10</sup>, LUC<sup>+15</sup>, LKP<sup>+13</sup>, LSJN13, MSK15, MSP12, NCW<sup>+17</sup>, PDSP<sup>+11</sup>, RSG12, RJ11, SMJ14, SF15, SP10, SWB<sup>+16</sup>, SFH15, SZZ10, TL17, TLKT17, VJGV11, VHPP19, VSC15, WNCF10, WCZT11, WZCT12, WS15, WMW<sup>+12</sup>, ZHWR11, ZZD10, dHST13, vZNW12]. **ATPase** [SZZ10]. **Attached** [JBC<sup>+12</sup>]. **Attachment** [JDS15]. **Attacks** [SS15a]. **Attention** [LMPvdH18]. **Augmentation** [CCKF11, HBTT11]. **Australia** [Ber13]. **Australian** [Ber13, HBC15]. **Authors** [Ano11b, Ano12b, Ano13b, Ano14b, Ano16, Ano17b, Ano19i, SRMB<sup>+15</sup>]. **Autosomal** [MSWD15]. **Availability** [HSS16, KGW14, KM14, MBH12, PW10a, RSL11, TES14, YCB<sup>+11</sup>]. **Available** [Yas16]. **Avian** [EHR<sup>+12</sup>, EPT<sup>+16</sup>, EPC<sup>+19</sup>, HERC12, HEC<sup>+15</sup>, KKB<sup>+10</sup>]. **Avoid** [AJFO10, AJF13a, HD16]. **Avoidance** [JBC<sup>+12</sup>, SPH19].

**B** [LDA<sup>+13</sup>]. **Back** [BSM13, CC16, PM13]. **Back-Calculated** [CC16]. **Back-Calculation** [PM13]. **Back-Calculations** [BSM13]. **Backpack** [PVJH15]. **Bad** [RKEB13b]. **Baits** [HBC15]. **Baja** [FRRCGA<sup>+15</sup>, TRHHOGSJ14]. **Balance** [JPG<sup>+18</sup>, TJB<sup>+14</sup>]. **Balancing** [MDP12]. **Baltimore** [Qui16]. **Bank** [RBZ<sup>+17</sup>, JPLS13, ZC13]. **Banking** [BMTP13]. **Barcoding** [PCFH17]. **Barge** [BWD<sup>+17</sup>]. **Barker** [CBSB15]. **Barotrauma** [BS16]. **Barracuda** [BNS<sup>+14</sup>]. **Barrier** [BWRA16, MCW<sup>+14</sup>, WCMP13, WAR12]. **Barriers** [WZC<sup>+14</sup>, WCN<sup>+19</sup>]. **Base** [MP10, OGM<sup>+15</sup>]. **Based** [CJL<sup>+14</sup>, CEM<sup>+19</sup>, Dud19, EHR<sup>+12</sup>, EPT<sup>+16</sup>, FBH<sup>+13</sup>, FA10, GKBG12, HSA<sup>+16</sup>, Hoe17, KR18, NCW<sup>+17</sup>, PPH15, PMN19, RSB14, RKEB13a, RKEB13b, SDBB12, SDSB18, SL16, TL17, THGA15, UNTA10, WR14,

WBWSK12, ZM10, WCN<sup>+</sup>19, vPWT12, WRP<sup>+</sup>12]. **Baseline** [RKEB13a]. **Baselines** [RKEB13b]. **Basin** [BDTD17, BAHP11, BHD<sup>+</sup>16, BCF<sup>+</sup>11, BBS12, CM11a, EPS<sup>+</sup>15, EMS<sup>+</sup>14, HGBE16, HHES13, KPZ<sup>+</sup>12, KCMS11, MKK15, MFR15, OTR<sup>+</sup>14, PTPS10, PDP12, PPC13, PPMJ14, PPW<sup>+</sup>14, PPJ15, RL19, SK11, WDHW14, WMW<sup>+</sup>12, ZBW10, ACRAM11, DWGF11, DWG14, EBF<sup>+</sup>14, FWBT17, HLB14, HCW14, HN11, JRP12, JAA<sup>+</sup>13, KBC<sup>+</sup>18, KK16, KHHG13, MHN11, MWG18, NHM10, PGJ11, RDR<sup>+</sup>10, SYH<sup>+</sup>15, SJ11, SMY11, SS13, Str10, Str12, SWP<sup>+</sup>18, WDR16, WAW11, WM12]. **Basin-Scale** [HGBE16]. **Basins** [KMKS13, VFFP13, ACRA10]. **Bass** [ARC<sup>+</sup>11, ARC<sup>+</sup>13, BLCN<sup>+</sup>10, BLCB13, BN16, BNW<sup>+</sup>12, BB10b, BAR15, CSDW10, CBW<sup>+</sup>16, CDB10, CCB16, DF12, DA12, DMHM<sup>+</sup>18, EFC<sup>+</sup>11, EPW15, ETC18, ER18, FDWG13, FRBA13, GWB<sup>+</sup>15, GDWD10, GA10, HHJH17, HBS12, HVD<sup>+</sup>16, HDF12, HPHB10, KGC<sup>+</sup>12, KTE<sup>+</sup>14, KAH16, KHD<sup>+</sup>14, LSJN13, LAR16, LV14, Lov11, LS10b, LCHB<sup>+</sup>18, MS13, MFH13, NDC<sup>+</sup>14, Nel14a, NLF13, NTHR18, NDW10, PW10a, PWP13, PMF<sup>+</sup>10, PET<sup>+</sup>17, RHKD12, RO16, SPC<sup>+</sup>18, SA14, SA16, SM13a, SAS17, SH12, SMH<sup>+</sup>11, SS15b, TRW10, TPA14, TPLA16, TAM15, THL<sup>+</sup>17, TBGM12, VVS13, WCZT11, WZCT12, WSK11, Nel14a]. **Basses** [TA12]. **Batch** [GDG<sup>+</sup>15]. **Bathothermal** [BAKT12]. **Bay** [ARL<sup>+</sup>12, DHRQ10, FSW10, GCM12, Gre12, IHTF11, JM14, RSG12, TT17, WLLCF16, WMW<sup>+</sup>12, BAHP11, BL11, CMM<sup>+</sup>17, HWHF14, Lov11, LN18, OSA<sup>+</sup>17, OGM<sup>+</sup>15, RL14, SMJ14, TLKT17, TF13, WF11, WLW16, WSK11]. **Bayesian** [DL13, SL16]. **Bays** [DSM18]. **Beach** [TT17, WF11]. **Bear** [CHT13]. **Beat** [MBBM10]. **Beaver** [LRW13, KGC<sup>+</sup>12]. **Bed** [FSFS17, JPSM12, MKH10, MLB18]. **Beds** [DSBS14, FWSW<sup>+</sup>15]. **Behavior** [BGW<sup>+</sup>17, BNS<sup>+</sup>14, CEFQ11, DMR<sup>+</sup>10, EWW13, EGAW12, FK18, FKF<sup>+</sup>19b, KCJ<sup>+</sup>15, LUC<sup>+</sup>15, MCSF14, MBT10, MCH<sup>+</sup>13, PDP12, RH14, RSG12, RGP17, SKP<sup>+</sup>10, SS15b, SHP<sup>+</sup>19, SPH19, TBL<sup>+</sup>17, TPLA16, TKC<sup>+</sup>18, WEW12, YSC10]. **Behavioral** [BCF<sup>+</sup>13, BSCA17, GWB<sup>+</sup>15, KBG<sup>+</sup>18, LRM<sup>+</sup>10, NPW12, PET<sup>+</sup>17, SAF<sup>+</sup>19, SHH<sup>+</sup>19]. **Behaviorally** [MCP<sup>+</sup>15]. **Behaviors** [CW11]. **Behind** [PJ11]. **below** [BLB<sup>+</sup>13, WAR12]. **Benefit** [Lan16]. **Benefits** [DCBKR14, HWD14]. **Benthic** [HLB<sup>+</sup>16, KS11, PSH<sup>+</sup>19, SS11, SAH<sup>+</sup>14, WDWC10]. **Benthivorous** [MLBS<sup>+</sup>13]. **Bering** [BBL<sup>+</sup>12, SSH<sup>+</sup>11a, SS15a, SS18b, BCP<sup>+</sup>11, BD15, GRS12, HSM<sup>+</sup>10, PBW16, Spi12]. **Berkeley** [Var13]. **Best** [RPVS15]. **Bethesda** [Chi13, Chr14, LDA<sup>+</sup>13, Nel14a, Ryp13, Zyd11]. **Better** [HUMG<sup>+</sup>18, TP11]. **Between** [AJF13a, Ano11a, BP13, BWRA16, BGOQ13, CBVF15, CHO<sup>+</sup>15, CHLN15, CM11a, DWN<sup>+</sup>15, EHC<sup>+</sup>14, FRBA13, Han18, HPHB10, JPLS13, KGC<sup>+</sup>12, KRRW18, LBC10, LHHL17, MJS<sup>+</sup>19, MOS13, NMH12, OPS<sup>+</sup>14, PB16, QSJ12, RHW15, RZW<sup>+</sup>12, RNG<sup>+</sup>13, RMW16, RB18, SB12a, SRMB<sup>+</sup>14, SPR<sup>+</sup>16, SE11, STK12, TC11, WDDS13]. **Between-Group** [AJF13a]. **Bias** [AJFO10, ELC13, KDS18, LSJN13, RL14]. **Biased** [MJGV14, SDBB12]. **Big** [PDM<sup>+</sup>14, DHA<sup>+</sup>17]. **Bighead**

[GGC17, HGSG17, LYX<sup>+10</sup>, LLWW19, SPC<sup>+18</sup>, ZRM<sup>+16</sup>]. **Bigheaded** [DAA<sup>+16</sup>]. **Bile** [YSW<sup>+14</sup>]. **Binomial** [IWB<sup>+13</sup>]. **Bioassessments** [FA10]. **Bioclimatic** [CM11b]. **Biodiversity** [BNS<sup>+16</sup>, SJ11]. **Bioelectric** [GvdHBC12]. **Bioelectrical** [DYWY17, HH11, HHJH17, VSC15]. **Bioenergetic** [AMBM12]. **Bioenergetics** [CORM13, Har17, HD16, HBHS15, JMM<sup>+11</sup>, KWS14, MDP12, MWC<sup>+13</sup>, MBBM10, PM15, SSS<sup>+12</sup>, UNTA10, WvPC12, WBH10, ZLHS10, vPWT12]. **Biogeographic** [MSBT10]. **Biogeography** [Var13]. **Biological** [RJH12, WAFL10]. **Biologically** [BNTT17]. **Biology** [ABM17, BCS19, BCMPDSZ10, CABNQ<sup>+13</sup>, CTG14, Fle16, GSR<sup>+11</sup>, Gol18, HL10, HAV<sup>+19</sup>, KSSK<sup>+17</sup>, MWSS13, Mil19, NG13, Pag19, Pra14, Shi13, Nel14a]. **Biomass** [MCO<sup>+10</sup>, PT10, STZ13, ZM10]. **Biomass-Based** [ZM10]. **Biometric** [MSD18]. **Biotelemetry** [DMR<sup>+10</sup>]. **Biotic** [MAK12, PKP<sup>+17</sup>]. **Black** [GMB<sup>+19</sup>, KAH16, MS13, SM13a]. **Blackfoot** [PPW<sup>+14</sup>, EPS<sup>+15</sup>, PDP12, PPC13, PPMJ14, PPJ15]. **Blackgill** [LF15]. **Blackspotted** [GMP<sup>+11</sup>]. **Blackwell** [Fle16]. **Bloater** [CBMR14, EBA<sup>+19</sup>, PB16, PRK<sup>+16</sup>]. **Bloaters** [BMR<sup>+12</sup>, PBM<sup>+12</sup>]. **Blood** [BS16]. **Blooms** [JC16]. **Blue** [BT16, CTN11, DDMR10, DK18, Goo15, HAR18, OWS16, RL14, RBE<sup>+10</sup>, SO15]. **Blueback** [MHHH10]. **Bluefin** [AGH18, Gol18]. **Bluefish** [MJGV14, MBL12, TT17]. **Bluegill** [CHLN15, MFH13]. **Bluegills** [OWN11, OWP13, PM10, SW11, SBW14]. **Bluehead** [FWBT17, WvPC12]. **Bluntnose** [WAFL10]. **Boats** [Lev18]. **Boca** [Shi13]. **Bodied** [AUDL18, Cla16, HW14, SRMB<sup>+14</sup>, SFF14]. **Bodies** [LBBW17]. **Body** [Ano11a, BS13, CTN11, GvdHBC12, KM14, KHF<sup>+18</sup>, Mic10, PW10b, PKL<sup>+11</sup>, RR13, SW11, TRLG13, TB16, TC11, VSBC13]. **Bomb** [GDWD10, MLC13]. **Bonneville** [BDTD17, CR10, HK12, KST<sup>+12</sup>]. **Bonytails** [OSDT18]. **Book** [Ano10a, Ano10b, Fle16, Nel14a, Qui16, Yas16, Pet15]. **Boom** [KYK17]. **Boom-and-Bust** [KYK17]. **Bootstrapping** [SMN<sup>+10</sup>]. **Borderlands** [BB15]. **Boreal** [BDS10, BSHK<sup>+11</sup>, LSPB11, TPBB14]. **Borrow** [MKH13]. **Borrow-Pit** [MKH13]. **Both** [CPS<sup>+15</sup>]. **Bottleneck** [KWCI10, KCM14]. **Bottom** [KS11]. **Bottomless** [RC16]. **Bottorff** [Yas16]. **Bradford** [Chi13]. **Branchiostegal** [BSSP18]. **Brassy** [FBF10]. **Brazilian** [CBW<sup>+16</sup>]. **Brazos** [RMW16, VFFP13]. **Breder** [RC16]. **Breeders** [BSS18]. **Breeding** [JCS14, MGWP10, SKP<sup>+10</sup>]. **Bristol** [DHRQ10]. **British** [BNS<sup>+16</sup>, MPHG10, NBC15, TA13, WAKH12, Bea10, BBC<sup>+14a</sup>, BBC<sup>+14b</sup>, MKH10, PGR13]. **Broad** [BDM<sup>+10</sup>, HLR<sup>+12</sup>]. **Brood** [LS10b]. **Brook** [AGKW12, BSGB17, BGLP19, BBAK19, BB10a, BMP<sup>+17</sup>, DW16, DW15, HH11, HCNL10, JK17, KLR<sup>+15</sup>, KHK<sup>+15</sup>, KMS<sup>+18</sup>, KRRW18, MCW<sup>+14</sup>, MFAS<sup>+12</sup>, Mit16, MWKS13, NB13, PHHM12, RMM11, RJWK10, SDW17b, TPBB14, TNS<sup>+14</sup>, WDDS13, WKS<sup>+19</sup>, WCD<sup>+11</sup>]. **Brown** [AMM<sup>+16</sup>, DW16, DH11, FWB<sup>+15</sup>, Har17, JC16, JLA17, KRRW18, KRM13, Mil19, Mit16, OS11, SHR<sup>+12</sup>, SDW17b, WDDS13, WMS15, WBH10, YHWH10]. **Brunswick** [UWL12a, UPT<sup>+13</sup>, DCS<sup>+17</sup>, TL17, UWL12b]. **Budget**

[MDP12]. **Buffers** [FQW<sup>+</sup>10]. **Bulak** [Nel14a]. **Bulkley** [WAKH12]. **Bull** [ACMM<sup>+</sup>15, ACDL19, ADS<sup>+</sup>11, BP13, BHD<sup>+</sup>16, CAB11, FH17, HCS<sup>+</sup>16, LB15, MWC<sup>+</sup>13, NAWM14, PPP<sup>+</sup>13, SK11, WBR11]. **Bullfrogs** [ACK17]. **Bullhead** [Har17]. **Bumpers** [GCA<sup>+</sup>18]. **Bundle** [MWS10]. **Buoyancy** [PBC12]. **Buoyant** [JBC<sup>+</sup>12]. **Burbot** [AIC13, BJA<sup>+</sup>13, BQHR17, CVL<sup>+</sup>19, CJGH13, CJG13, GRDO13, GS13, HP13, HUMG<sup>+</sup>18, JWHJ13, KSB16, SM13b, SWC13, SNI<sup>+</sup>13, TA13, TASC17]. **Burrhead** [PSGB13]. **Bust** [KYK17]. **Butte** [CNM<sup>+</sup>18]. **Butterfly** [BN16]. **Bypass** [SO12, HSG10].

**C** [Chi13, LDA<sup>+</sup>13, Nel14a, Shi13, GDPW10, VSBC13]. **Cage** [JKP10]. **Cairns** [Zyd11]. **Calcified** [KDS18]. **CalCOFI** [Pet15]. **Calculate** [SMN<sup>+</sup>10]. **Calculated** [CC16, STZ13]. **Calculation** [PM13]. **Calculations** [BSM13]. **California** [Gid14, Pet15, TRHHOGSJ14, Var13, ARL<sup>+</sup>12, BSC<sup>+</sup>10, BGB<sup>+</sup>16, BHP<sup>+</sup>15, CT16, FSP<sup>+</sup>17, FRRCGA<sup>+</sup>15, GLM<sup>+</sup>15, GGHS<sup>+</sup>14, GHPS<sup>+</sup>16, GNMM12, JM14, LHHL17, LSSYL10, MSD<sup>+</sup>19, MDT10, NLF13, NR16, PHM17, RG16, RL19, SMO<sup>+</sup>14, SCC17, SMS<sup>+</sup>12, TVL<sup>+</sup>12]. **californiensis** [MFR15]. **Callinectes** [DDMR10, DK18]. **Calorimetry** [GDWD10]. **Cambridge** [Cha13]. **Camera** [GWG<sup>+</sup>19]. **Campeche** [JPLS13]. **Can** [BMF<sup>+</sup>15, CGL<sup>+</sup>11, FH17, HKR18, HGS<sup>+</sup>16, MCP<sup>+</sup>15]. **Canada** [BNS<sup>+</sup>16, CHH<sup>+</sup>16, Han18, JKP10, LMPvdH18, NBC15, UWL12a, UPT<sup>+</sup>13, WMW<sup>+</sup>12]. **Canadian** [BDS10, BCP<sup>+</sup>11, DF11, WCYH18]. **Canadian-Origin** [DF11]. **Canal** [CKFQ11, GBW16, Esh14, MBT10]. **Canals** [SO12]. **Candidate** [NZF<sup>+</sup>11]. **Candy** [DA16]. **Canning** [BCS19]. **Canyon** [CYP11, SRMB<sup>+</sup>14, WvPC12, YCB<sup>+</sup>11]. **Capability** [CJM<sup>+</sup>15]. **Cape** [DCBKR14, SH12]. **Captive** [FS16, HL10, RNG<sup>+</sup>13, SVKK18]. **Captive-Reared** [SVKK18]. **Captivity** [JPG<sup>+</sup>18]. **Capture** [BMC<sup>+</sup>13, HLK11, LSV<sup>+</sup>13, MSH<sup>+</sup>14, RCC<sup>+</sup>13, RHR<sup>+</sup>15, TL17]. **Captured** [DCS<sup>+</sup>17]. **Carbon** [DAA<sup>+</sup>16, QSJ12, SPH19]. **Carcass** [KPZ<sup>+</sup>12, MWS10, RSB14]. **Carcasses** [WHC<sup>+</sup>10]. **Caribbean** [HAV<sup>+</sup>19]. **Carmel** [Smi13]. **Carolina** [RH14, THNG14, AAD14, BRA14, CTP<sup>+</sup>12, CEM<sup>+</sup>19, DDMR10, DK18, FBH<sup>+</sup>13, HARL18, MKA10, MWT14, MVP15, RLL<sup>+</sup>19, SH12, SFH15]. **Carp** [BBZGB15, BW10, GGC17, GMB<sup>+</sup>19, HGSG17, LBBW17, LYX<sup>+</sup>10, LLWW19, SS13, SWP<sup>+</sup>18, WB13a, WB13b, ZRM<sup>+</sup>16]. **Carps** [DAA<sup>+</sup>16, SPC<sup>+</sup>18]. **Carrier** [Shi13]. **Carryover** [AW19]. **Cascade** [THKG10]. **Case** [KCM14, MRPW19, PGW<sup>+</sup>11, RJ11]. **caspia** [ARL<sup>+</sup>12]. **Caspian** [ARL<sup>+</sup>12, MGWP10, SCL<sup>+</sup>13]. **Casselman** [Zyd11]. **Catalina** [LSSYL10]. **Catch** [AJFO10, AJF10, AJF13a, AJF13b, CML19, FM17, Goo15, HAG13, HJS<sup>+</sup>16, HGP<sup>+</sup>17, LUC<sup>+</sup>15, Sto10, TP11, WAFL10, YJW11]. **Catch-and-Release** [FM17, LUC<sup>+</sup>15]. **Catch-Rate** [YJW11]. **Catchability** [HJS<sup>+</sup>16, KS11, PTPS10, RSVAB19]. **Catchable** [MHE12]. **Catchable-Sized** [MHE12]. **Catches** [CM11a, VIW<sup>+</sup>17]. **Catchment**



[YYA<sup>+</sup>16]. **catesbeianus** [ACK17]. **Catfish** [BK11, FBP11, LS10a, MSB<sup>+</sup>18, MBEvdB<sup>+</sup>10, SO15, SSR<sup>+</sup>17]. **Cating** [DMCO11]. **Catostomid** [Lan16]. **Catostomids** [BBF<sup>+</sup>18, BFH14, SFF14]. **Catskill** [BEWM10, EBMV10]. **Cattaraugus** [HDBS14]. **Caught** [DDMR10, RSBF14]. **Cause** [Mit16]. **Causes** [FSRK11, TLM<sup>+</sup>19]. **Cautionary** [ACWIK13]. **Cedar** [BLB<sup>+</sup>13, TW14]. **Census** [MLS<sup>+</sup>13]. **Central** [CM11b, DDMR10, NRZ<sup>+</sup>13, PTWK11, RHKD12, SCC17, SHR<sup>+</sup>12, SMS<sup>+</sup>12, TVL<sup>+</sup>12, DG14, JPHK10, MBPP18, PDH<sup>+</sup>18, RL19, SDW17b]. **Centrarchid** [AM13, MKK15]. **Cephalopod** [PM19]. **Ceratomyxosis** [FMG<sup>+</sup>11]. **Ceratonova** [CRC<sup>+</sup>16]. **cerebralis** [FWB<sup>+</sup>15, KKB<sup>+</sup>10, PDP12]. **cerebralis-Resistant** [FWB<sup>+</sup>15]. **Cetaceans** [Cha13]. **CFT** [ACK17]. **Chain** [BSC<sup>+</sup>16, HRHS16]. **Challenge** [SKBS18]. **Challenged** [BRGR10]. **Challenges** [ACB<sup>+</sup>14]. **Champlain** [Esh14, HML13, SPR<sup>+</sup>16, SRP<sup>+</sup>18]. **Change** [BAKT12, FSFS17, FBWT19, LSSYL10, MDT10, NB12, RA10, SNC<sup>+</sup>10, SRP<sup>+</sup>18, SWS10, WSK19, ZTC12]. **Changes** [BCRP13, BS15, CTPM13, HSSS16, HK12, KGC<sup>+</sup>12, KCS<sup>+</sup>19, KR18, PT10, PRK<sup>+</sup>16, RSL11, RSBF14, SWC13, SWS10, TJB<sup>+</sup>14]. **Changing** [EBA<sup>+</sup>19, Har17, JMB<sup>+</sup>13, Mit16, SDOK19]. **Channel** [BEWM10, EBMV10, FSFS17, LS10a, PPJ15, SSR<sup>+</sup>17, WSQ<sup>+</sup>15]. **Channels** [MC14, RBZ<sup>+</sup>17, WHC<sup>+</sup>10]. **Char** [CPP<sup>+</sup>14, GDST16, SDK<sup>+</sup>10]. **Character** [FGW<sup>+</sup>16]. **Characteristics** [CKC<sup>+</sup>12, CJG13, DCS<sup>+</sup>17, EPW15, HDH16, HERC12, MKH10, MP10, MK15, PSM12, PGW<sup>+</sup>11, PGVG15, SDW15, SMS<sup>+</sup>12, VB14, WSI14, WQD14, WAFL10]. **Characterization** [CTP<sup>+</sup>12, KCJ<sup>+</sup>15, MJHP18, WBM<sup>+</sup>17]. **Characterize** [BDM<sup>+</sup>10, DFB15, FWSW<sup>+</sup>15, LMD<sup>+</sup>17, WRP<sup>+</sup>12]. **Characterizing** [ACWIK13, BES15, CHS<sup>+</sup>11, GZB12, HCD10, RJ11]. **Charles** [Nel14a]. **Chattahoochee** [SYH<sup>+</sup>15]. **Chemical** [LRM<sup>+</sup>10, NYCC19, TBGM12, TL14, ZSVK13]. **Chemistry** [BBG<sup>+</sup>18, CBVF15, CC16, NW14, SMJ14, SYH<sup>+</sup>15, SBC17]. **Chesapeake** [BL11, WF11, CMM<sup>+</sup>17, FSW10, HWHF14, Lov11, LN18, OSA<sup>+</sup>17, OGM<sup>+</sup>15, RL14, SMJ14, TF13, WSK11]. **Chicago** [Pra14, Smi13, LLWW19]. **Chichester** [Fle16]. **Chignik** [CHS<sup>+</sup>11]. **Chinese** [FCG<sup>+</sup>17]. **Chinook** [Ano11a, Bea10, BHS<sup>+</sup>17, BS18, BNC<sup>+</sup>15, BVA11, BBM<sup>+</sup>14, BWD<sup>+</sup>17, BRK<sup>+</sup>18, BDBE11, BBS12, BEMF11, BCG<sup>+</sup>12, BLB<sup>+</sup>13, CJL<sup>+</sup>14, CHO<sup>+</sup>15, CEFQ11, CKFQ11, CFHE11, CC16, CTS<sup>+</sup>15, CTPM13, CVB14, CNM<sup>+</sup>18, CTK<sup>+</sup>17, DF11, DEW<sup>+</sup>14, DWE<sup>+</sup>18, DWE<sup>+</sup>19, DBC<sup>+</sup>10, DML<sup>+</sup>10, DBS<sup>+</sup>10, EMS<sup>+</sup>14, ETC18, FJP18, FWT<sup>+</sup>14, FPM15, FMS10, FMG<sup>+</sup>11, GCG<sup>+</sup>18, GDM<sup>+</sup>10, GDM<sup>+</sup>11, GJC<sup>+</sup>18, GA17, GSA<sup>+</sup>19, HMTTC12, HLB14, HBB17, HRR<sup>+</sup>11, HSG10, HN11, HM17, JMB<sup>+</sup>13, JBC<sup>+</sup>12, JJC12, JRP12, JAA<sup>+</sup>13, KQ11, KK16, KHHG13, KRM11, KRM13, LBC10, LHS<sup>+</sup>13, LHHL17, MM17, MSBT10, MHN11, MBH16, MM10, MGK<sup>+</sup>18, MCO<sup>+</sup>10, MCH<sup>+</sup>13, MCP<sup>+</sup>15, MSWD15, NHM10, NBC15, PBG<sup>+</sup>11, PJ11, PPF<sup>+</sup>13, PPH15, PBC12, PM15, RSB14, RGM<sup>+</sup>11, RT14, SJT<sup>+</sup>16, SMO<sup>+</sup>14, SCC17, SKP<sup>+</sup>10, SCL<sup>+</sup>13,

SHH<sup>+</sup>19, SBDW11, SE11, SFLH14, SLG<sup>+</sup>14, SVKK18, SMN<sup>+</sup>10]. **Chinook** [Str10, Str12, TRMC15, TM19, TC11, TKC<sup>+</sup>12, TES14, TKC<sup>+</sup>18, TTW<sup>+</sup>11, VBJS10, WHF<sup>+</sup>12, WM12, Wei10, WBD14, ZKB<sup>+</sup>15, ZKH12]. **Chiricahua** [ACK17]. **chiricahuensis** [ACK17]. **Chloride** [SSH11b]. **Choice** [TL14]. **Choptank** [AS17]. **Chromosomal** [MGP11, MSWD15, MSS<sup>+</sup>17]. **Chronic** [DMRK14]. **Chronicling** [OGM<sup>+</sup>15]. **Chronology** [MCT17]. **Chub** [BB15, BMOF16, CCL<sup>+</sup>19, DSRA12, GLM<sup>+</sup>15, HMW19, LRH12, OMA13, PSGB13, RMW16, SPH<sup>+</sup>15, WZC<sup>+</sup>14, WMS15]. **Chum** [HT13, MSS<sup>+</sup>17, PGS13, RCC<sup>+</sup>13, STS<sup>+</sup>14, WAD<sup>+</sup>17, WRP<sup>+</sup>12]. **Cichlid** [BMH19]. **Cisco** [BHG<sup>+</sup>10, FJJ<sup>+</sup>12, HDH16]. **Ciscoes** [BD15, PBW16]. **Clair** [FPR<sup>+</sup>18]. **clarkii** [SPM<sup>+</sup>17]. **Class** [CPP<sup>+</sup>14, MBPA13, PW10a, SWP<sup>+</sup>18]. **Classification** [WBWSK12]. **Cleaner** [WHSK19]. **Cleaning** [GNV<sup>+</sup>14]. **Clear** [GZB12]. **Clearwater** [TKC<sup>+</sup>18]. **Climate** [AMBM12, BBL<sup>+</sup>12, FJJ<sup>+</sup>12, FBWT19, Har17, MDT10, RR13, SNC<sup>+</sup>10, SWS10, UACS<sup>+</sup>19, WAD<sup>+</sup>17, ZTC12]. **Climate-Growth** [RR13]. **Climate-Related** [UACS<sup>+</sup>19]. **Close** [YSC10]. **Closed** [MSH17]. **Closing** [JLA17]. **Closure** [BHC<sup>+</sup>13]. **Closures** [BDBE11, GA10]. **Club** [VWS13]. **Clupeid** [HMO14]. **Cluster** [Nel14b]. **Co** [PDP12]. **Co-occurrence** [PDP12]. **Coancestry** [BSS18]. **Coanda** [PPW<sup>+</sup>14]. **Coarse** [DW13]. **Coast** [FRRCGA<sup>+</sup>15, SMS<sup>+</sup>12, Wei10, YYA<sup>+</sup>16, ASJ16, GSVS<sup>+</sup>10, KSSK<sup>+</sup>17, TVL<sup>+</sup>12, ZHWR11]. **Coast-Wide** [ASJ16]. **Coastal** [AGJ11, AGKW12, BGB<sup>+</sup>16, BKC<sup>+</sup>19, BAR15, BGOQ13, CHPG12, CYW<sup>+</sup>19, DGMC17, DSM18, DF12, FHCSN12, GGHS<sup>+</sup>14, HRB<sup>+</sup>16, Han18, HBTT11, HCZ13, HCZG15, KHD<sup>+</sup>14, KWW14, MSK15, MSD<sup>+</sup>19, MP10, MPM<sup>+</sup>14, NDW10, OSA<sup>+</sup>17, OWS16, PGJ11, RHEF19, RSL11, RG16, RBH<sup>+</sup>12, RRG<sup>+</sup>17, RL19, SFB16, SGP16, SR15, SSM16, THNG14, TH15, TTM<sup>+</sup>15, vVO10, SMO<sup>+</sup>14]. **Coastwide** [ASJ15, WMG<sup>+</sup>14]. **Cobia** [Ada18]. **Cochlodinium** [RGP17]. **Cod** [DCBKR14, Han11, MHF12, PDSP<sup>+</sup>11, SS15a, Spi12]. **Coded** [HB17, HSA<sup>+</sup>16, Wei10]. **Coding** [GPBA18, NB13]. **Coexistence** [CHT13]. **Coho** [AKK<sup>+</sup>19, BWDM11, BNTT17, DSHG10, FSJ<sup>+</sup>11, FWT<sup>+</sup>14, FBS<sup>+</sup>14, FRM18, GWOD18, GHPS<sup>+</sup>16, HGBE16, HWH10, JPSM12, JADJ<sup>+</sup>14, KBC<sup>+</sup>18, LPM<sup>+</sup>17, MSD<sup>+</sup>19, MGW13, MSS<sup>+</sup>17, NMH12, NRZ<sup>+</sup>13, OPHD18, PKL<sup>+</sup>11, QHS<sup>+</sup>13, RRA<sup>+</sup>15, RKF<sup>+</sup>13, RBH<sup>+</sup>12, WTB10]. **Cohort** [TA13, ZM10]. **Cold** [FBJR11, IB14]. **Coldwater** [MSH17]. **Collected** [DPS14]. **Collection** [PCT<sup>+</sup>12]. **Collections** [BGV11]. **Collectors** [KVA<sup>+</sup>19]. **Collingwood** [Ber13]. **Colonial** [CML19]. **Colonization** [Esh14, HHES13, KBC<sup>+</sup>18, WCMP13]. **Colony** [ARL<sup>+</sup>12, MGWP10]. **Color** [PSM12]. **Colorado** [DWGF11, DF14, FWBT17, MWG18, Sto10, VFFP13, ZBW10, CYP11, CRH10, DF14, GBF12, HNV<sup>+</sup>18, SRMB<sup>+</sup>14, SPH<sup>+</sup>15, YCB<sup>+</sup>11, ZBW10, ZBHW16]. **Columbia** [BNS<sup>+</sup>16, EPC<sup>+</sup>19, MC14, NBC15, RDR<sup>+</sup>10, RT14, ACRA10, ACRAM11, Bea10, BBC<sup>+</sup>14a, BBC<sup>+</sup>14b, BSHK<sup>+</sup>11, BCH<sup>+</sup>11, EHR<sup>+</sup>12, FWT<sup>+</sup>14, HJM<sup>+</sup>12, HLB14, HTR13, HBB17, HN11, HHES13, HS13, JAA<sup>+</sup>13, KK16,

KPZ<sup>+12</sup>, MPHG10, MKH10, MGWP10, MHN11, MBH16, MOS13, NHM10, PGR13, SZGS12, SJT<sup>+16</sup>, SCL<sup>+13</sup>, TA13, WAKH12]. **Combination** [SS13]. **Combined** [BWD<sup>+17</sup>]. **Combining** [GA17, HUMG<sup>+18</sup>]. **Comment** [ARC<sup>+13</sup>, CCH15, Lis15, PWP13, SKBS18]. **Commercial** [DCS<sup>+17</sup>, KQ11, PGS13, WCYH18]. **Common** [BSS18, BBZGB15, BW10, GN13, LDLH15, LBBW17, MOS13, NG13, NLF13, RNG<sup>+13</sup>, SS13, TBTS12, WB13a, WB13b, WBMG10, YYA<sup>+16</sup>]. **Communication** [LDA<sup>+13</sup>]. **Communities** [BGLP19, ERL15, GS16, NJ12, SJT<sup>+16</sup>, WHSK19]. **Community** [BBL<sup>+12</sup>, BES15, CGM15, DGMC17, FPD12, HCZG15, MWS10, MWT14, RSBF14, STK12, TJB<sup>+14</sup>, HCD<sup>+14</sup>]. **Comparative** [BLB<sup>+13</sup>, CBMR14, FA10, KWS14, ZC13]. **Compare** [TPLA16]. **Comparing** [ARB<sup>+18</sup>, MBL12, PPF<sup>+13</sup>]. **Comparison** [BLG<sup>+13</sup>, BB10a, BN16, BSC<sup>+16</sup>, CM10, CBSB15, CNM<sup>+18</sup>, DM11a, DEP<sup>+18</sup>, DSB<sup>+18</sup>, ELC13, GGC17, HLB<sup>+16</sup>, HOGO10, Han11, HDBS14, HS13, KGC<sup>+12</sup>, KCZH14, MSD18, NMH12, OWN11, PNMH<sup>+12</sup>, PET<sup>+17</sup>, QHS<sup>+13</sup>, RC16, RNG<sup>+13</sup>, SMO<sup>+14</sup>, SAW<sup>+17</sup>, THGA15, YJW11, HGS<sup>+16</sup>]. **Comparisons** [BT16, HNV<sup>+18</sup>, OPS<sup>+14</sup>, PF11a, RBE<sup>+10</sup>, TT17, WCQD18]. **Compensation** [SA16]. **Compensatory** [RBK<sup>+11</sup>]. **Competition** [DMRK14, HWN15, JBV13, PKL<sup>+11</sup>]. **Complementary** [CR10]. **Complex** [AFHF12, FFYI16, KWW14, PHHM12, PPW<sup>+14</sup>]. **Complexity** [Con17, DWG14, DW13, JADJ<sup>+14</sup>, LF15, WDWC10]. **Components** [IWB<sup>+13</sup>, KAH16, PDSP<sup>+11</sup>, SF15, YSW<sup>+14</sup>]. **Composition** [BAKT12, BCM<sup>+19</sup>, CHLN15, CBM15, EMS<sup>+14</sup>, FDWG13, GJC<sup>+18</sup>, JC16, JPHK10, KHD<sup>+14</sup>, PPF<sup>+16</sup>, PM14, PDH<sup>+18</sup>, SJT<sup>+16</sup>, SFLH14, ZSVK13]. **Compressed** [KHF<sup>+18</sup>]. **Computational** [GKBG12]. **Concentration** [FWD10, SJGL16]. **Concentrations** [MHPB14, SARC13, WNCF10]. **Concept** [BYM19, PRW<sup>+10</sup>, TH15]. **Concern** [PVJH15]. **Concerns** [Zyd11]. **Condition** [BMC<sup>+13</sup>, BS13, CTN11, CT16, CM11a, DYWY17, EHC<sup>+14</sup>, FKF<sup>+19a</sup>, GvdHBC12, GA17, HOGO10, HHJH17, HML13, HER<sup>+11</sup>, KHF<sup>+18</sup>, MAK12, PRK<sup>+16</sup>, RNG<sup>+13</sup>, RT14, SF17, TRMC15, WDR16]. **Conditions** [AS17, BJA<sup>+13</sup>, CM11b, CPS<sup>+15</sup>, FS16, FRRCGA<sup>+15</sup>, GA17, HR15, HERC12, JPSM12, KCJ<sup>+15</sup>, Mit16, MWG18, SLG<sup>+14</sup>, Str12, TFM<sup>+18</sup>, WB13a]. **Confer** [DWE<sup>+19</sup>]. **Confidence** [SMN<sup>+10</sup>]. **Confirm** [ESD<sup>+17</sup>, EBF<sup>+14</sup>]. **Conflict** [LBC10]. **Conflicts** [GKG<sup>+19</sup>]. **Congeneric** [PL13]. **Connection** [MC14]. **Connections** [JPLS13]. **Connectivity** [DM11a, ERL15, KWW14, Lan16, STK12, WCN<sup>+19</sup>]. **Consecutive** [JPG<sup>+18</sup>]. **Consequences** [ACMM<sup>+15</sup>, BMC<sup>+13</sup>, Goo19, JSW<sup>+15</sup>, PET<sup>+17</sup>, TRW10]. **Consequent** [TTM<sup>+15</sup>]. **Conservation** [AGKW12, ADS<sup>+11</sup>, BMF<sup>+15</sup>, BYM19, BLCB13, BMOF16, BGV11, CVL<sup>+19</sup>, DKS18, DF12, FPM13, FBS<sup>+14</sup>, Fre19, LRH12, LFB<sup>+15</sup>, MDD<sup>+16</sup>, SDOK19, SDSB18, SPH<sup>+15</sup>, WCYH18, Zyd11]. **Conserved** [GGP<sup>+15</sup>]. **Consider** [ARC<sup>+13</sup>, Hoe17, PWP13].

**Consideration** [EPS<sup>+</sup>15]. **Considering** [MAH<sup>+</sup>12]. **Consistency** [SBMH12]. **Consistent** [PHG<sup>+</sup>16]. **Conspecific** [SJGL16]. **Constant** [GDM<sup>+</sup>10, HR15, ZBC<sup>+</sup>13]. **Constraints** [HBB13, WDH14]. **Construct** [PMN19]. **Constructed** [FSFS17]. **Consumer** [BR14]. **Consumers** [FH17]. **Consumption** [FM17, HBB17, JBV13, KLS17, KSB16, MBH12, MCO<sup>+</sup>10, PM15, PB16, RBF<sup>+</sup>11, RJWK10, SSS<sup>+</sup>12, SHCB16, TES14, vPWT12]. **Contemporary** [HSE<sup>+</sup>12, KHHG13, WKC18]. **Content** [BL11, JPH17, MBL12, SF17, VSC15]. **Contents** [BSSM12]. **Conterminous** [HTH<sup>+</sup>17]. **Context** [MAH<sup>+</sup>12, RCD<sup>+</sup>11]. **Continental** [GRS12, PDH<sup>+</sup>18, MAS10]. **Contingents** [NW14, PMF<sup>+</sup>10]. **Continued** [ZHWR11]. **Continuous** [Dud19]. **Contraction** [RG16]. **Contrasting** [CBM<sup>+</sup>13, DWE<sup>+</sup>18, NRZ<sup>+</sup>13, PNM<sup>+</sup>10]. **Contrasts** [SMS<sup>+</sup>12]. **Contribute** [TES14]. **Contributing** [HM17, SMMK12]. **Contribution** [ASJ16, ASJ17, BNS<sup>+</sup>16, GLM<sup>+</sup>15, NDC<sup>+</sup>14]. **Contributions** [Stu18, THL<sup>+</sup>17, WBR11]. **Control** [BBC14c, CHB<sup>+</sup>12, CYP11]. **Controlled** [CPS<sup>+</sup>15, KKM11]. **Controlling** [LV14, NAG13]. **Controls** [BPS11, SS13]. **Cool** [BNC<sup>+</sup>15]. **Copepoda** [MFR15]. **Copepods** [Mit16]. **Copper** [AHS11a]. **Copy** [MSS<sup>+</sup>17]. **Core** [DKD<sup>+</sup>15]. **Coregonine** [AHS<sup>+</sup>11b, TFM<sup>+</sup>18]. **Cormack** [CBSB15]. **Cormorants** [BDS10, DCJ<sup>+</sup>13, SCL<sup>+</sup>13]. **Corrections** [HHJH17]. **Correlate** [PSGB13]. **Correlated** [HN11, vS10]. **Correlates** [BS13, WL13]. **Correlation** [GDPW10]. **Correspondence** [CBVF15]. **Corresponding** [SCC17]. **Corridor** [HGG<sup>+</sup>16, WB15a]. **Corridors** [Esh14]. **Cortisol** [BLG<sup>+</sup>13]. **Cost** [FDSB18]. **Coterminous** [ADS<sup>+</sup>11]. **Count** [IWB<sup>+</sup>13]. **Countergradient** [DKD<sup>+</sup>15]. **Counts** [DMCO11]. **County** [BHK<sup>+</sup>10]. **Coupling** [STK12]. **Coutant** [Nel14a]. **Covariation** [CHLN15]. **Cover** [CSDW10, SWS10]. **Covered** [BDM<sup>+</sup>10]. **Cownose** [CMM<sup>+</sup>17]. **Crab** [BT16, CGDL18, HCR14, RL14, RMC<sup>+</sup>17, SBDW11]. **Crabs** [DDMR10, DK18, MBP<sup>+</sup>11, OWS16, RCM<sup>+</sup>19, SFF<sup>+</sup>10]. **Crappie** [MBH12, MS13, SM13a]. **CRC** [Shi13]. **Create** [SSH11b]. **Creek** [BCF<sup>+</sup>11, MDT10, PPMJ14, PPW<sup>+</sup>14, PPJ15, WAD<sup>+</sup>17, CNM<sup>+</sup>18, HDBS14, QHS<sup>+</sup>13, SBDW11]. **Creeks** [FBH<sup>+</sup>13, JPRS10, RLL<sup>+</sup>19]. **Crested** [BDS10, DCJ<sup>+</sup>13, SCL<sup>+</sup>13]. **Critical** [NCW<sup>+</sup>17, RL14, UK14]. **Critically** [AUDL18]. **Croaker** [GvdHBC12]. **Croakers** [TLKT17]. **Cross** [CHPG12, DA16, GA17]. **Cross-Life-Stage** [GA17]. **Cross-Scale** [DA16]. **Cross-Shore** [CHPG12]. **Crossing** [BP10]. **Crowded** [WB15b]. **Cryopreservation** [BMTP13]. **CSIRO** [Ber13]. **Cues** [LRM<sup>+</sup>10, VHPP19]. **Culture** [JKP10, SM13b]. **Cultured** [SDOK11]. **Culvert** [ERL15, JPMS12]. **Culverts** [MCW<sup>+</sup>14, TPBB14]. **Cumulative** [EPC<sup>+</sup>19, WHF<sup>+</sup>12]. **Cure** [RPSB14]. **Current** [MMY12, Pet15, RCD<sup>+</sup>11]. **Curves** [TP11]. **Cutthroat** [BB10a, BRG19, BRGR10, BGOQ13, CKM<sup>+</sup>11, CR10, CRH10, DZW<sup>+</sup>12, DWN<sup>+</sup>15, HBB13, HB18, HNV<sup>+</sup>18, HK12, HMP18, JJNB17, MSW<sup>+</sup>10, MPM<sup>+</sup>14, MKHC17, MDD<sup>+</sup>16, ODG<sup>+</sup>11, Pag19, PRW<sup>+</sup>10, PPW<sup>+</sup>14, SPM<sup>+</sup>17, SK11, UACS<sup>+</sup>19, ZTC12, ZBC<sup>+</sup>13]. **Cycle**

[BBZGB15, BMM10, KYK17]. **Cycles** [CM10, LKP<sup>+</sup>13, SSS<sup>+</sup>12]. **Cycling** [ZKH12]. **Cyprinid** [BB15, HMW19, HKO<sup>+</sup>18, LRH12, PCFH17]. **Cyprinidae** [HOWS10]. **Cyprinids** [DMRK14, NAG13].

**D** [Ryp13]. **Dace** [BMTP13]. **Daily** [LS18, TL15]. **Dakota** [LBBW17, PGW<sup>+</sup>11, WBD14]. **Dam** [BHK<sup>+</sup>10, BLB<sup>+</sup>13, FBWZ19, GBZ14, HGB<sup>+</sup>16, HEW12, HCZ13, HCZG15, HSM12, JZS<sup>+</sup>19, KCJ<sup>+</sup>15, QHS<sup>+</sup>13, RH14, SDW15, SH12, SMN<sup>+</sup>10, WCZ<sup>+</sup>18, WBM<sup>+</sup>17, WZK<sup>+</sup>15, YITI12, KST<sup>+</sup>12]. **Dams** [BW10, EWSR16, HUMG<sup>+</sup>18, KVA<sup>+</sup>19, LRW13, PCT<sup>+</sup>12, THNG14]. **Danio** [HKP11]. **Darter** [AFHF12, DA16, GBF12, KLS17, PAG11, PL13]. **Darters** [PSB16]. **Data** [ASP<sup>+</sup>18, AJFO10, CYW<sup>+</sup>19, GWG<sup>+</sup>19, GBB<sup>+</sup>14, HUMG<sup>+</sup>18, IWB<sup>+</sup>13, KM10, KHHG13, MRPW19, PM13, PGWS15, SR10, SMO<sup>+</sup>14, WMV<sup>+</sup>16, WBR11]. **Date** [BQF<sup>+</sup>19, CEFQ11, KGW14]. **Dates** [AS17, SPR<sup>+</sup>16]. **David** [Qui16, Zyd11]. **Day** [AJF13b, MT19]. **Debris** [TVL<sup>+</sup>12]. **Decades** [PPC13]. **Decelerating** [EGAW12]. **Deciphering** [BBGB15]. **Decisions** [AS12]. **Declination** [HAR18]. **Decline** [ABM17, BHG<sup>+</sup>10, NR16, PHM17, SBO12]. **Declines** [HMSG<sup>+</sup>11, MLC13]. **Declining** [DWGF11]. **Decompression** [PKPS11]. **Decreases** [MJH17]. **Deep** [HBC15]. **Deepwater** [Con17, JDS15, LF15, MAN<sup>+</sup>12, MHPB14, SFB16]. **Defining** [JJC12]. **Deformities** [BBF<sup>+</sup>18]. **Deformity** [SO15]. **Degree** [MT19]. **Degree-Day** [MT19]. **Delaware** [TLKT17, HPF<sup>+</sup>16, TT17]. **Delayed** [PJ11]. **Delays** [VJGV11]. **Deletion** [MSS<sup>+</sup>17]. **Delineate** [GMP<sup>+</sup>11]. **Delta** [BSSM12, DEW<sup>+</sup>14, DWE<sup>+</sup>18, DWE<sup>+</sup>19, FSP<sup>+</sup>17, KR18, LFB<sup>+</sup>15, NLF13, PMN19, RKEB13a, RKEB13b, SBC<sup>+</sup>16, YSC10, PBB<sup>+</sup>15]. **Delta-Reared** [DWE<sup>+</sup>19]. **Demand** [SHCB16]. **Demersal** [AW19, RA10]. **Demographic** [MHN11, NDP16, SH10]. **Demographics** [FSW10, VB14]. **Demography** [DH11, GBZ14, HCS<sup>+</sup>16]. **Demonstration** [BDM<sup>+</sup>10]. **Dennys** [SZZ10]. **densa** [CBW<sup>+</sup>16]. **Densities** [CM11b, EBA<sup>+</sup>19, FRM18, KBG<sup>+</sup>18, SAH<sup>+</sup>14]. **Density** [BPS11, BHLK10, BT16, BJA<sup>+</sup>13, BB10a, CTPM13, DA12, FSJ<sup>+</sup>11, GvdHBC12, GGC17, GDWD10, HML13, JPH17, MK15, PM14, PBM<sup>+</sup>12, RMC<sup>+</sup>17, RT14, RAR<sup>+</sup>16, SR10, SJT<sup>+</sup>16, SF15, SF17, VFB<sup>+</sup>16, WB13a, ZKH12]. **Density-Dependence** [WB13a]. **Density-Dependent** [BPS11, CTPM13, SR10]. **Dependence** [BHLK10, HGB<sup>+</sup>16, WB13a]. **Dependent** [BPS11, CTPM13, DW16, DCBKR14, HD16, PPH15, PM15, RBZ<sup>+</sup>17, SR10, SHM<sup>+</sup>12]. **Depleted** [HPSA16]. **Depletion** [CKS<sup>+</sup>19, HKR18, HJS<sup>+</sup>16]. **Deployment** [KM10]. **Deposition** [FPR<sup>+</sup>18, HEC<sup>+</sup>15, PAG11]. **Depression** [DSHG10]. **Depth** [BBZGB15, CHPG12, PBC12, RSG12]. **Depth-Related** [CHPG12]. **Depths** [PCC<sup>+</sup>13]. **Derived** [HWH10, HSE<sup>+</sup>12, MCW<sup>+</sup>14, WM12, WTB10]. **Deriving** [CYW<sup>+</sup>19]. **Descaling** [ZZD10]. **Describe** [HUMG<sup>+</sup>18, OSS<sup>+</sup>17]. **Description** [RKEB13a]. **Desert** [BMOF16, CM10, DFB15, DYWY17, HB18, MCD17, SBDW11, SBC17, WB15a]. **Desiccation** [KU12]. **Design**

[BEWM10, EBMV10, FMJ11, JDS15, Nel14b, PMN19, SC13, TF13].  
**Design-Based** [PMN19]. **Designed** [KM10, MAN<sup>+</sup>12]. **Designs**  
 [BP10, CBSB15, FVK<sup>+</sup>18, KCZH14, SFF<sup>+</sup>10]. **Detailed** [HPG10]. **Detect**  
 [BSGB17, LSD<sup>+</sup>14, SFF14]. **Detectability** [BSC<sup>+</sup>16, RG15, WF11].  
**Detecting** [WMV<sup>+</sup>16]. **Detection**  
 [AGJ11, BSSM12, BR14, CCL<sup>+</sup>19, FVK<sup>+</sup>18, GLM<sup>+</sup>15, HKR18, HBS13,  
 JSW12, KO16, MH11, MLB18, PF11a, PVJH15, PDM<sup>+</sup>14, SL16]. **Deter**  
 [DAA<sup>+</sup>16, MCP<sup>+</sup>15]. **Determinants** [MBG<sup>+</sup>11, TKC<sup>+</sup>18]. **Determinate**  
 [GDG<sup>+</sup>15, HMO14]. **Determination**  
 [GDWD10, HS17, KWCI10, MSD18, PB17, SB12b, TL14]. **Determine**  
 [CW11, SYH<sup>+</sup>15]. **Determined** [BWDM11, GZB12, Wei10, WMW<sup>+</sup>12].  
**Determines** [BJC12, DGMC17]. **Determining**  
 [CHO<sup>+</sup>15, PBW16, ZSVK13]. **Detroit** [FPR<sup>+</sup>18]. **Develop** [MRPW19].  
**Developing** [ABS<sup>+</sup>11, Poe14]. **Development**  
 [BS18, BMTP13, CVL<sup>+</sup>19, CEM<sup>+</sup>19, DKL<sup>+</sup>17, DA16, DG19, HHJH17,  
 HBHS15, IB14, LS16, LS18, MWC<sup>+</sup>13, MR11, NMH12, PKP<sup>+</sup>17, PM19,  
 RAB<sup>+</sup>18, SLG<sup>+</sup>14, TKC<sup>+</sup>18, WHP14, ZLHS10]. **Developmental** [ODG<sup>+</sup>11].  
**Devices** [BES15]. **Diagnostic** [GMP<sup>+</sup>11]. **DIDSON** [BFM10].  
**Didymosphenia** [JC16]. **Diel** [AHS<sup>+</sup>11b, BBZGB15, BJR14, GZB12,  
 LKP<sup>+</sup>13, MCSF14, RW11, RKF<sup>+</sup>13, SBW14, SJFF15, TASC17, WZCT12].  
**Diet** [AMBM12, BDS10, BN16, BR14, BSC<sup>+</sup>16, CBM15, DWE<sup>+</sup>18, DCJ<sup>+</sup>13,  
 DBS<sup>+</sup>10, FRBA13, FBB<sup>+</sup>13, GCA<sup>+</sup>18, GJC<sup>+</sup>18, HSSS16, Han11, HW14,  
 HML13, JC16, JK17, JPHK10, LSPB11, MKK15, RL19, SBC<sup>+</sup>16, SRMB<sup>+</sup>14,  
 SRP<sup>+</sup>18, WCD<sup>+</sup>11]. **Diets**  
 [AMM<sup>+</sup>16, EBA<sup>+</sup>19, MFH13, MLBS<sup>+</sup>13, NTHR18, RSBF14, WBD17].  
**Differ** [BSM13, SB12a]. **Differences**  
 [BMR<sup>+</sup>12, MT19, MWSS13, PM19, PVJH15, QSJ12, RGP17, SS18b, SWC13].  
**Different**  
 [BHS<sup>+</sup>17, CPS<sup>+</sup>15, HVD<sup>+</sup>16, JMM<sup>+</sup>11, KMKS13, MC14, PB15, SFF<sup>+</sup>10].  
**Differential**  
 [BQF<sup>+</sup>19, BNW<sup>+</sup>12, BEMF11, HRR<sup>+</sup>11, LRH12, MGP11, SGP16].  
**Differentiation** [BYM19, CPP<sup>+</sup>14]. **Differing** [OWN11, PTPS10].  
**Digestion** [LJHL10]. **Digital** [MVK12, WTB10]. **Diked** [KWW14].  
**diluviana** [AHS<sup>+</sup>11b]. **Dimensional** [GKBG12]. **Diminished** [BCF<sup>+</sup>11].  
**Dinoflagellate** [RGP17]. **Dinosaurs** [DKS18]. **Dioxide** [DAA<sup>+</sup>16, SPH19].  
**Diporeia** [PB16]. **Direct** [KST<sup>+</sup>12, MAK12, SS13]. **Direct-Gradient**  
 [MAK12]. **Disaggregating** [NR16]. **Discard** [BC12]. **Discharge**  
 [HHES13, PA10]. **Discordance** [CHO<sup>+</sup>15]. **Discovery** [MSW<sup>+</sup>10]. **Disease**  
 [EPS<sup>+</sup>15, PPMJ14]. **Disease-Positive** [PPMJ14]. **Disjoined** [DM11a].  
**Dispersal** [BLB<sup>+</sup>13, FWT<sup>+</sup>14, GRS12, HBS12, HCNL10, HPHB10,  
 RHKD12, SNI<sup>+</sup>13, WAKH12, YYA<sup>+</sup>16]. **Displacement** [PPP<sup>+</sup>13].  
**Dissolved** [AS12, GWB<sup>+</sup>15, KM10]. **Distance** [SSR<sup>+</sup>17]. **Distant** [HEW12].  
**Distinct** [BRG19, FH17, KBG<sup>+</sup>18, MBL<sup>+</sup>18, BYM19]. **Distinctiveness**  
 [SPM<sup>+</sup>17]. **Distinguishing** [Ano11a, TC11]. **Distributed** [RPC14].

**Distribution** [AGKW12, BPS11, BGW<sup>+17</sup>, BA13, BD15, BW10, CKM<sup>+11</sup>, CZK<sup>+17</sup>, CKS<sup>+19</sup>, CTK<sup>+17</sup>, CAB11, EMS<sup>+14</sup>, FZZ<sup>+10</sup>, FSP<sup>+17</sup>, FRM18, FSRK11, FRRCGA<sup>+15</sup>, GGP<sup>+15</sup>, GCM12, HSM<sup>+10</sup>, HW14, HCS<sup>+16</sup>, LKS<sup>+12</sup>, LKP<sup>+13</sup>, MLS<sup>+13</sup>, NCW<sup>+17</sup>, OSS<sup>+17</sup>, PBW16, PSGB13, PSB16, PDH<sup>+18</sup>, PGVG15, QHS<sup>+13</sup>, RSL11, RG15, SMO<sup>+14</sup>, SMH<sup>+11</sup>, SWC13, TPBB14, TTM<sup>+15</sup>, VJGV11, VCP<sup>+14</sup>, WDH14, WLLCF16, WBMG10]. **Distributions** [BRG19, CGM15, DWGF11, HLR<sup>+12</sup>, SGP16, SS18b, SWS10, TW14, Wei10, WTB10, ZC13]. **Disturbances** [TW14]. **Ditches** [JPRS10]. **Diurnal** [MCT17]. **Divergence** [CHS<sup>+11</sup>, DBHV14, MHN11, PGJ11]. **Diverse** [MKK15, Str12]. **Diversifying** [AHS11a]. **Diversion** [MCP<sup>+15</sup>]. **Diversions** [HUMG<sup>+18</sup>, MCH<sup>+13</sup>, PPW<sup>+14</sup>]. **Diversity** [BKC<sup>+19</sup>, CN11, CHMG<sup>+18</sup>, EPR<sup>+18</sup>, HRB<sup>+16</sup>, HBTT11, HWD<sup>+16</sup>, LMD<sup>+17</sup>, LYX<sup>+10</sup>, MSP12, MBZ<sup>+14</sup>, OWP<sup>+17</sup>, RMM11, SDK<sup>+10</sup>, STS<sup>+14</sup>, SCC17, SSR<sup>+17</sup>, TKC<sup>+18</sup>, TPBB14, WDR16, WSI14]. **DNA** [BSGB17, CKM<sup>+11</sup>, FVK<sup>+18</sup>, GMB<sup>+19</sup>, HOWS10, LYX<sup>+10</sup>, PCFH17, RBF<sup>+11</sup>, SBC<sup>+16</sup>, Whi12, WMW<sup>+12</sup>, WMG<sup>+14</sup>]. **Do** [BB10a, LRW13, NPW12]. **Documentation** [MPM<sup>+14</sup>]. **Does** [DYWY17, HSM12, LUC<sup>+15</sup>, SB12a, SBDW11, TL15, VSBB<sup>+14</sup>, VSBC13, WHSK19]. **Dogfish** [DCBKR14, DG19]. **Dolly** [BCS19, WTB10]. **Dolphinfish** [BAYS16, CYW<sup>+19</sup>, RBE<sup>+10</sup>, TRHHOGSJ14]. **Domain** [NAW12]. **Domain-Sensitive** [NAW12]. **Domesticated** [NMH12]. **Dominance** [IMO<sup>+14</sup>, TB16, vZNW12]. **Dose** [VSBB<sup>+14</sup>]. **Double** [BDS10, DCJ<sup>+13</sup>, HRG12, SCL<sup>+13</sup>]. **Double-Crested** [BDS10, DCJ<sup>+13</sup>, SCL<sup>+13</sup>]. **Downs** [GS13]. **Downstream** [CTPM13, EWSR16, MJH17, TKC<sup>+12</sup>]. **Downstream-Migrating** [MJH17]. **DPS** [BYM19]. **Drainage** [BAHP11, ERL15, HUMG<sup>+18</sup>, WL13, WKC18]. **Drainages** [RG15, RG16]. **Dramatic** [HSSS16]. **Drawdowns** [GBW16]. **Dredging** [FPD12]. **Dreissenid** [HML13, KS11, MBG10]. **Drift** [GGC17, HGS<sup>+16</sup>, UPT<sup>+13</sup>]. **Drift-Feeding** [HGS<sup>+16</sup>]. **Drift-Flow** [HGS<sup>+16</sup>]. **Driven** [OSDT18]. **Drivers** [EPR<sup>+18</sup>, KO16, MSB<sup>+18</sup>]. **Driving** [NR16]. **Drones** [HNRB19]. **Drought** [PSGB13]. **Drowned** [BR11, JRBC13]. **Drum** [RR13]. **Dry** [CNM<sup>+18</sup>, JPH17]. **Drying** [FBF10]. **Dual** [GBB<sup>+14</sup>, MJHP18, MBBM10]. **Dual-Frequency** [GBB<sup>+14</sup>, MJHP18, MBBM10]. **due** [JHK<sup>+19</sup>]. **Duration** [MGW13]. **During** [BNTT17, CNM<sup>+18</sup>, LUC<sup>+15</sup>, Arc16, AJF13b, BP13, CKFQ11, CHW<sup>+13</sup>, CSD<sup>+14</sup>, GCG<sup>+18</sup>, GA10, HPG10, HBA<sup>+15</sup>, JCK<sup>+12</sup>, KYK17, MR11, PM14, PKL<sup>+11</sup>, PHG<sup>+16</sup>, PBC12, PTG<sup>+10</sup>, PGS13, PGR13, SWB<sup>+16</sup>, SGB13, SGK16, TB14, TKC<sup>+12</sup>, ZKH12]. **Duskystripe** [SB12b]. **Dwelling** [BS13, STZ13, WNCF10]. **Dynamic** [AHS<sup>+11b</sup>, BWHF17, BCH<sup>+11</sup>]. **Dynamics** [BGB<sup>+16</sup>, BBS12, CBMR14, FM17, FMG<sup>+11</sup>, GKBG12, GP12, HSS17, IHTF11, JRBC13, KGC<sup>+12</sup>, KR18, KSB16, KRM13, LBBW17, NR16, PF11b, PM10, RKEB13a, RKEB13b, SFB16, SH10, SM13a, WvPC12, WRQH17, ZBHW16].

**e-book** [Fle16, Pet15]. **Early** [BB15, BNS+16, CSED10, CDB10, CSD+14, DWE+19, DMHM+18, FWT+14, FPM15, GCG+18, GDST16, HPF+16, HSS17, JWHJ13, KKM11, LME16, LDLH15, LHS+13, LJHL10, MNS+19, MSWS10, MWKS13, MBT10, NMH12, PFG19, PKL+11, PTG+10, PGS13, PGR13, RRA+15, SBC+16, SSH+11a, SWB+16, SHP+19, TD13, TKC+12, WDW11]. **Early-Life** [BB15]. **East** [BSCA17, DG14, GSVS+10, YYA+16]. **East-Central** [DG14]. **Eastern** [BBL+12, CTG14, CGDL18, DSBS14, DW15, SSH+11a, SS15a, SS18b, SBDW11, SMMK12]. **Echograms** [MBBM10]. **Ecological** [GS16, OTR+14]. **Ecology** [ACDL19, BGW+17, BAYS16, BL11, DKS18, FK18, Fre19, GRDO13, Gol18, HRHS16, HB18, IRJ11, Mil19, PNM+10, PSH+19, PFG19, QSJ12, Qui19, Qui19, RCM+19, RMM11, RBE+10, SK11, Sec19, SM13b, SGK16, TA12, UWL12b, Ber13, Gid14, HCD+14]. **Ecomorphological** [MBZ+14]. **Economical** [DJ17]. **Ecoregion** [PKP+17]. **Ecoregions** [KMKS13]. **Ecosystem** [Chr14, EBA+19, HCR14, Han18, KGC+12, KKB+10, RA10]. **Ecotype** [HW14]. **Ectoparasitic** [Mit16]. **Edge** [CZK+17, CKS+19, RO16, VJGV11, Zyd11]. **Edisto** [CTP+12]. **Edited** [Ber13, Chi13, Chr14, Fle16, LDA+13, Nel14a, Ryp13, Shi13, Var13, Zyd11]. **edition** [Ryp13, Shi13]. **eDNA** [FVK+18, GMB+19]. **edwardsii** [Mit16]. **Eel** [CPS+15, GPBA18, HEW12, SJGL16, ZZMC13]. **Eel-Stage** [GPBA18]. **Eels** [EWSR16, FSW10, FBB+13, GPBA18, RLL+19, SJGL16, SAH+14, WL13, Zyd11]. **Effect** [CJM+15, CT16, EPW15, GDM+11, GCA+18, HJM+12, JRP12, LS10b, MGW13, OWN11, PBB+15, SSS+12, SHR+12, SH12, UWL12b, WEW12, vZNW12]. **Effective** [BSS18, CYP11, HMSG+11, JCS14, LV14, MSP12, ZC13]. **Effectiveness** [BGV11, BR14, JADJ+14, LDP19]. **Effects** [ARL+12, AW19, ACK17, AGKW12, BPS11, BB15, BJA+13, BSC+10, BBZGB15, BCRP13, BBL+12, BWD+17, BKC+19, BHK+10, CSDW10, Cla16, CDB10, CCB16, DW13, DWN+15, EGAW12, EBMV10, EPC+19, FWB+15, FPM13, FKH15, FH12, FMS10, FMG+11, GWOD18, GBW16, GJC+18, GA17, Gre12, GIW+13, GA10, HBS13, HB17, HTR13, HMW19, HWN15, HWHF14, HMP18, IBH12, JBC+12, KH13, KHF+18, KKM11, LDLH15, LJHL10, LBBW17, LSJN13, LSV+13, MDP12, MHE12, MFH13, MK10, MS12, NDW10, NAG13, OPHD18, OPS+14, PB15, PPF+13, PGWS15, Poe14, PB16, QSVD11, RHW15, Rey16, RBF+11, SDW+17a, SO12, SDOK11, SLG+14, SPCJ11, Sto10, SCB15, TASC17, TPA14, THNG14, TM19, UACS+19, VSB+14, VSBC13, WHF+12, WMS15, WZCT12, WR14, WK13, WDW10, WF19, WCN+19, WOM14, YCB+11, YHWH10, vVO10]. **Effects** [KR18]. **Efficacy** [BSGB17, BDBE11, FDSB18]. **Efficiency** [CGL+11, MJH17, SIKR17, SFF+10]. **Efficient** [WNC10]. **Effort** [HAG13, HCD10, PDM+14, SA14]. **Efforts** [CCKF11, CBSB15, DF12]. **Egeria** [CBW+16]. **Egg** [AGKH17, Bea10, BS18, BGV11, FPR+18, FSC+13, JRP12, MLBS+13, PAG11, QSVD11, SS13, SVKK18, TM19, WBD14].



**Egg-to-Fry** [JRP12, SVKK18]. **Eggs** [BCR13, CHLN15, FH12, GGC17, RB13, RAR<sup>+</sup>16]. **Eight** [SFLH14]. **Elasmobranch** [OPS<sup>+</sup>14]. **Elastomer** [HB17]. **Electric** [ARB<sup>+</sup>18]. **Electrical** [MJH17, Rey16, TBGM12]. **Electricity** [NAG13]. **Electrode** [HH11]. **Electrodes** [Rey16]. **Electrofishing** [HAG13, HKR18, HJS<sup>+</sup>16, LDP19, MKHC17, MK10, PVJH15, Rey16]. **Electroimmobilization** [NYCC19]. **Electromagnetic** [BCF<sup>+</sup>13]. **Electronarcosis** [BLG<sup>+</sup>13]. **Electronic** [LEM<sup>+</sup>11]. **Electrosedation** [ARB<sup>+</sup>18, PET<sup>+</sup>17, RFM<sup>+</sup>15]. **Electroshocking** [MAN<sup>+</sup>12]. **Elevation** [HNV<sup>+</sup>18, WDH14, WTB10]. **Eliminates** [JJNB17]. **Elk** [PSB16]. **Elucidates** [PCFH17]. **Elusive** [JLV<sup>+</sup>10]. **Elwha** [HGB<sup>+</sup>16, LPM<sup>+</sup>17, MPM<sup>+</sup>14, QHS<sup>+</sup>13, WBM<sup>+</sup>17]. **Embryo** [MYS<sup>+</sup>11]. **Embryonic** [DG19, HDQ<sup>+</sup>17, WHP14]. **Embryos** [BQF<sup>+</sup>19, NAG13]. **Emerge** [BRG19]. **Emergence** [BS18, JSW<sup>+</sup>15]. **Emerging** [AMM<sup>+</sup>16]. **Emigrant** [BMF<sup>+</sup>15]. **Emigration** [AHS10, GGS10, HLK11, PM14, PHG<sup>+</sup>16, RRA<sup>+</sup>15, TRLG13, WF19]. **Empirical** [BGV<sup>+</sup>12, JPH17]. **Encounter** [HN13]. **Encounters** [YSC10]. **Endangered** [ACDL19, AUDL18, BB15, BH11, CCL<sup>+</sup>19, DPB13, DYWY17, DSAM12, EBF<sup>+</sup>14, GLM<sup>+</sup>15, HKO<sup>+</sup>18, JZS<sup>+</sup>19, Lan16, LFB<sup>+</sup>15, LSD<sup>+</sup>14, PAG11, PPD16, SBC17, TTM<sup>+</sup>15, WOM14]. **Endemic** [BYM19, MKA10]. **Endocrinology** [LSSYL10]. **Endogenous** [GGS10]. **Energetics** [OGM<sup>+</sup>15]. **Energy** [CKS<sup>+</sup>19, GvdHBC12, GDWD10, HR15, HGS<sup>+</sup>16, HML13, JPG<sup>+</sup>18, JPH17, MDP12, MBL12, PM14, PBM<sup>+</sup>12, SF15, SF17]. **England** [RJ11, DKL<sup>+</sup>17, FHCSN12, PMF<sup>+</sup>10]. **Enhance** [BMF<sup>+</sup>15]. **Enhanced** [Bea10, PK11]. **Enhancement** [CEM<sup>+</sup>19, DF12, HGG<sup>+</sup>16]. **Enhances** [ERL15]. **Enrichment** [KPZ<sup>+</sup>12]. **Entering** [ZZD10]. **Entrainment** [KMM<sup>+</sup>11, KR18, MBPA13, MCH<sup>+</sup>13, MCP<sup>+</sup>15, PBB<sup>+</sup>15, SO12, WHF<sup>+</sup>12]. **Entrance** [SFF<sup>+</sup>10]. **Entry** [MJHP18]. **Environment** [BWD<sup>+</sup>17, CSD<sup>+</sup>14, DSRA12, FS16, GDST16, MSWS10, MOS13, WDW11]. **Environmental** [BSGB17, CM11a, CJG13, DSM18, GGS10, HMTC12, HBB13, JPSM12, KLR<sup>+</sup>15, KCJ<sup>+</sup>15, KO16, MPHG10, MSK15, Mit16, OSDT18, PTWK11, SM13a, Str12, UWL12b, VHPP19, WB13a, WL13, FVK<sup>+</sup>18, GMB<sup>+</sup>19]. **Environments** [BHS<sup>+</sup>17, BCH<sup>+</sup>11, HT13, MAH<sup>+</sup>12, NRZ<sup>+</sup>13, WSQ<sup>+</sup>15]. **Episodic** [BAR15]. **Erie** [BBG<sup>+</sup>18, CM11a, Esh14, HDBS14, PDM<sup>+</sup>14, SWC13, VB14, YJW11, ZRM<sup>+</sup>16]. **Errata** [Ano10c, Ano10d]. **Erratum** [Ano10e, Ano11a, Ano12a, Ano14a, Ano15, Ano17a, Ano19a, Ely12, Ano13a]. **Error** [AJF13a]. **Escapements** [MK16]. **Esocids** [EWW13]. **Establish** [SBC17]. **Establishment** [PW10a, SRP<sup>+</sup>18]. **Estimate** [CGA13, DYWY17, HPF<sup>+</sup>16, KHW<sup>+</sup>14, PPH15, PHFN17, SL16, TS13, VSC15]. **Estimated** [dHST13]. **Estimates** [AJF13a, BSR12, BSSP18, BFM10, CN11, CC16, CBSB15, FBH<sup>+</sup>13, HLB<sup>+</sup>16, HJS<sup>+</sup>16, HBS12, HSE<sup>+</sup>12, JCS14, KDS18, MAS10, MCO<sup>+</sup>10, RSB14, STZ13, SJMG14, UWL12a]. **Estimating** [CTN11, CKC<sup>+</sup>12, HOGO10, HCD10, HGP<sup>+</sup>17, IWB<sup>+</sup>13, MH11, MBL<sup>+</sup>18,

PCT<sup>+12</sup>, PM15, WBR11, ZM10, ZC13, vPWT12]. **Estimation** [AFHF12, ASP<sup>+18</sup>, BC12, CCKF11, CEM<sup>+19</sup>, DLHF16, DL13, DMHO12, HBTT11, HSA<sup>+16</sup>, MBP<sup>+11</sup>, MK16, PVJH15, SKBS18, SC13]. **Estimations** [ZZMC13]. **Estimators** [HSF12, Hoe17, STZ13, THGA15]. **Estuaries** [DK18, DSBS14, FWSW<sup>+15</sup>, Fre19, LEM<sup>+11</sup>, NW14, NDW10, WBMG10]. **Estuarine** [Ada18, CT16, DWE<sup>+19</sup>, DHB15, FWD10, FDWG13, FBH<sup>+13</sup>, LDP19, MJS<sup>+19</sup>, NRZ<sup>+13</sup>, NR16, PHG<sup>+16</sup>, PE14, PA10, SF15, SMMK12, WF11]. **Estuary** [BR14, CBW<sup>+16</sup>, DCS<sup>+17</sup>, DHB15, FZZ<sup>+10</sup>, HPF<sup>+16</sup>, HSSS16, HJM<sup>+12</sup>, MSH17, MBH16, NCW<sup>+17</sup>, OSS<sup>+17</sup>, PMF<sup>+10</sup>, RT14, SCL<sup>+13</sup>, VBJS10, WBD17, BSSM12, BSC<sup>+16</sup>, KR18, NLF13, NR16, QHS<sup>+13</sup>, RKEB13a, RKEB13b, SBC<sup>+16</sup>, SMH<sup>+11</sup>]. **Ethanol** [FH12, OPS<sup>+14</sup>, VSBC13]. **Ethanol-Stored** [OPS<sup>+14</sup>]. **Etheostoma** [DPB13]. **Etowah** [AFHF12]. **Eugenol** [BTWB17, CJL<sup>+14</sup>]. **Eugenol-Based** [CJL<sup>+14</sup>]. **Eulachon** [FSN<sup>+13</sup>]. **European** [HMSG<sup>+11</sup>, SHR<sup>+12</sup>, VJGV11]. **Evaluate** [DF12, KST<sup>+12</sup>, WCQD18]. **Evaluated** [HPHB10]. **Evaluating** [ACRA10, ARC<sup>+11</sup>, GSD<sup>+12</sup>, GBF12, KRRW18, KP14, MCW<sup>+14</sup>, NAG13, PGWS15, PSB16, WCN<sup>+19</sup>]. **Evaluation** [BSS18, BHC<sup>+13</sup>, BSSP18, CCKF11, CC16, CGA13, CTP<sup>+12</sup>, EHR<sup>+12</sup>, FBJR11, FHCSN12, GDWD10, GSA<sup>+19</sup>, HAG13, HB17, HJS<sup>+16</sup>, JPH17, MP10, MWC<sup>+13</sup>, RHEF19, SC13, UNTA10, WDDS13, WBH10, ZBHW16, ZLHS10]. **Evaluations** [AIC13]. **Events** [BS16, PGVG15]. **Evidence** [BGV<sup>+12</sup>, BNTT17, CTS<sup>+15</sup>, CT12, CTPM13, DKD<sup>+15</sup>, DZW<sup>+12</sup>, Gre12, HKW<sup>+14</sup>, HDQ<sup>+17</sup>, LSSYL10, PF11b, SS13, SSR<sup>+17</sup>, Str10, TLKT17, ZTC12]. **Evidenced** [WvPC12]. **Evolution** [Bea10]. **Evolutionarily** [PRW<sup>+10</sup>]. **Evolutionary** [AKM12, ADS<sup>+11</sup>, Pag19]. **Examination** [HPG10, SBC<sup>+16</sup>]. **Examine** [GA17]. **Examined** [FSJ<sup>+11</sup>]. **Examining** [BR14, BCM<sup>+19</sup>, LBC10, NHM10]. **Example** [AGH18, ACWIK13, Goo15, GA10]. **Exclusion** [CWP<sup>+19</sup>]. **Exercise** [CJM<sup>+15</sup>]. **Exhaustive** [CJM<sup>+15</sup>]. **Exhibit** [BB10a, BNW<sup>+12</sup>]. **Exotic** [TD13]. **Expansion** [LN18, SGK16]. **Expectations** [GKG<sup>+19</sup>]. **Experience** [CGB19, WEW12]. **Experiencing** [HBTT11]. **Experiment** [JCK<sup>+12</sup>, SLG<sup>+14</sup>]. **Experimental** [BNW<sup>+12</sup>, CTP<sup>+12</sup>, DMRK14, FSC<sup>+13</sup>, GS16, HJS<sup>+16</sup>, HDQ<sup>+17</sup>, JDS15, SS18a, SAF<sup>+19</sup>, WHC<sup>+10</sup>]. **Explains** [BRA14, PJ11, SFF<sup>+10</sup>]. **Exploit** [FH17]. **Exploitation** [KQ11, PGWS15, SS18a, Fle16]. **Exploring** [BMR<sup>+12</sup>, GA10, NLF13, NDW10, SZGS12, SM13a, WB15b]. **Exposed** [BDBE11, BCG<sup>+12</sup>, DMRK14, GDM<sup>+10</sup>, PET<sup>+17</sup>, RGP17, YSC10]. **Exposure** [AW19, CRC<sup>+16</sup>, CHB<sup>+12</sup>, CCB16, MGW13, SMO<sup>+14</sup>, TNS<sup>+14</sup>]. **Exposure-Sensitivity** [TNS<sup>+14</sup>]. **Expression** [BHP<sup>+15</sup>, GPBA18]. **Expulsion** [IBH12]. **Extending** [LDP19]. **Extensive** [HUSST19, JHK<sup>+19</sup>]. **Extent** [ACRAM11, RHW15, UPT<sup>+13</sup>]. **Extents** [FSJ<sup>+11</sup>]. **External** [DEP<sup>+18</sup>, HER<sup>+11</sup>, JDS15, MHPB14]. **Externally** [JBC<sup>+12</sup>]. **Extinction** [BHG<sup>+10</sup>]. **Extinctions** [FSRK11]. **Extirpations** [FPM13]. **Extreme**

[GJC<sup>+</sup>18, STK12, SGB13]. **Extrinsic** [MNB18].

**F/SPO** [Yas16]. **Facilitate** [BDTD17, DPS14, KBG<sup>+</sup>18]. **Facilitates** [HBS12]. **Factor** [ABM17, CT12, JRP12]. **Factors** [ACRAM11, GGS10, KLR<sup>+</sup>15, KVA<sup>+</sup>19, MPHG10, MNB18, MD11, MK16, OTR<sup>+</sup>14, OSDT18, PPF<sup>+</sup>16, PTPS10, RSVAB19, RBH<sup>+</sup>12, SAS17, SWP<sup>+</sup>18, SMMK12, TTM<sup>+</sup>15, UACS<sup>+</sup>19, WBD17]. **Failure** [BHC<sup>+</sup>18, Smi13]. **Fall** [Ano11a, BGV<sup>+</sup>12, BWD<sup>+</sup>17, FJP18, FMS10, FMG<sup>+</sup>11, GDM<sup>+</sup>10, GDM<sup>+</sup>11, GGC17, HSM<sup>+</sup>10, HGBE16, MPM<sup>+</sup>14, MWKS13, PJ11, SCL<sup>+</sup>13, SE11, SFH15, SMN<sup>+</sup>10, SDW17b, TC11, TKC<sup>+</sup>12, TKC<sup>+</sup>18, WBD14, WRP<sup>+</sup>12]. **Fall-Run** [BWD<sup>+</sup>17, FMG<sup>+</sup>11, WRP<sup>+</sup>12]. **Falling** [PJ11]. **Family** [TB16]. **Farms** [JKP10]. **Fast** [JLA17, LSPB11]. **Fast-Growing** [LSPB11]. **Fasting** [SSS<sup>+</sup>12]. **Fat** [DG14]. **Fate** [LUC<sup>+</sup>15]. **Fathead** [AS12, SRMB<sup>+</sup>14]. **Fatty** [HWH10]. **Favor** [MWG18]. **Fear** [SH12]. **Feasibility** [SNP<sup>+</sup>10, SHCB16]. **Feature** [CYW<sup>+</sup>19]. **Features** [BCH<sup>+</sup>11, MWG18]. **Fecundity** [BEMF11, DG19, GDG<sup>+</sup>15, HMO14, QSVD11]. **Fed** [PB15, WRP<sup>+</sup>12]. **Federally** [CCL<sup>+</sup>19]. **Feeding** [Bel12, BAYS16, DA12, DG14, GRDO13, Han18, HGS<sup>+</sup>16, LME16, LSPB11, MCT17, NCW<sup>+</sup>17, PFG19, RBE<sup>+</sup>10, SSS<sup>+</sup>12, SGK16, TT17, TRHHOGSJ14, TA12, UWL12b]. **Female** [BRK<sup>+</sup>18, CTG14, CPS<sup>+</sup>15, DK18, JPG<sup>+</sup>18, OWS16, PSM12, SSS<sup>+</sup>12]. **Females** [CHLN15]. **Fertilizer** [WHC<sup>+</sup>10]. **Fidelity** [DPB13, GDST16, TLKT17, WLW16, YYA<sup>+</sup>16]. **Field** [Ano11a, CJL<sup>+</sup>14, HUMG<sup>+</sup>18, LDP19, MT19, SS13, TC11, VSC15, WTB10, vPWT12]. **Field-based** [vPWT12]. **Field-Surveyed** [WTB10]. **Fields** [BCF<sup>+</sup>13, Rey16]. **Fin** [BSR12, BSSP18, OPS<sup>+</sup>14, SWH<sup>+</sup>17, VSBC13]. **Findings** [RMW16]. **Fine** [BR11, HBA<sup>+</sup>15, PS14, TPBB14, WAKH12]. **Fine-Scale** [BR11, HBA<sup>+</sup>15, PS14, TPBB14, WAKH12]. **Finger** [BAKT12]. **Finley** [Smi13]. **Fire** [SMY11]. **First** [BNTT17, CKFQ11, KM14, SO15, SKP<sup>+</sup>10, VFB<sup>+</sup>16, WB13a]. **First-Generation** [SKP<sup>+</sup>10]. **First-Winter** [KM14]. **First-Year** [VFB<sup>+</sup>16, WB13a]. **Fish** [ABM17, ARB<sup>+</sup>18, AUDL18, AW19, ACB<sup>+</sup>14, BEWM10, BGLP19, BT16, BDTD17, BMOF16, BAKT12, BWHF17, BCF<sup>+</sup>13, BSCA17, BR11, BBL<sup>+</sup>12, BP10, BKC<sup>+</sup>19, BTWB17, BES15, BDM<sup>+</sup>10, BHK<sup>+</sup>10, CCL<sup>+</sup>19, CS16, CGM15, CJL<sup>+</sup>14, Chi13, Cla16, CYP11, CGA13, CBM<sup>+</sup>13, CWP<sup>+</sup>19, DGMC17, DSBS14, DW13, DM11a, DYWY17, DHB15, ESD<sup>+</sup>17, EB16, EPR<sup>+</sup>18, EHC<sup>+</sup>14, ERL15, FWD10, FBWZ19, FK18, FQW<sup>+</sup>10, FPD12, FPR<sup>+</sup>18, FBWT19, FA10, FH12, GKBG12, GBW16, GDWD10, GA17, GNV<sup>+</sup>14, GWG<sup>+</sup>19, GSD<sup>+</sup>12, HLB<sup>+</sup>16, HSSS16, HAG13, HR15, HS17, HN13, HARL18, HMW19, HKP11, HSA<sup>+</sup>16, HCZG15, HD16, HCD10, HLK11, HER<sup>+</sup>11, HERC12, HEC<sup>+</sup>15, IRJ11, IB14, JZBP16, JPH17, JKP10, KGC<sup>+</sup>12, KMKS13, KCS<sup>+</sup>19, KMM<sup>+</sup>11, KCZH14, KP14, KHF<sup>+</sup>18, KVA<sup>+</sup>19, KWW14, Lan16, LF15, LJHL10, LSD<sup>+</sup>14, MDP12, MRPW19]. **Fish** [MSK15, MP10, MLS<sup>+</sup>13, MH11, MKA10, MWT14, MKH13, MVP15,

MWG18, MBG<sup>+11</sup>, MCO<sup>+10</sup>, NPW12, NDC<sup>+14</sup>, NJ12, NYCC19, NR16, NDW10, NAG13, OSS<sup>+17</sup>, PPF<sup>+16</sup>, PW10b, PAB<sup>+11</sup>, PTWK11, PK11, PE14, PCT<sup>+12</sup>, PHFN17, PDM<sup>+14</sup>, RHEF19, RZW<sup>+12</sup>, RBZ<sup>+17</sup>, RW11, RSBF14, RJ11, RGP17, RFM<sup>+15</sup>, SARC13, SJT<sup>+16</sup>, SDBB12, SAF<sup>+19</sup>, SFB16, SF17, SJ11, STZ13, SCF16, Smi13, SR15, SHC<sup>+16</sup>, STK12, SWS10, SGB13, SAH<sup>+14</sup>, TF13, VFFP13, VIW<sup>+17</sup>, VSBC13, WDR16, WB15a, WMS15, WR14, WSQ<sup>+15</sup>, WRQH17, WCZ<sup>+18</sup>, WK13, WBWSK12, WHSK19, WB15b, WBW<sup>+13</sup>, YCB<sup>+11</sup>, YSC10, vVO10, HLH14].

**Fish-Based** [FA10]. **Fished** [HVD<sup>+16</sup>]. **Fisheries**

[Ada18, Ano14b, Ano16, Ano17b, Ano19i, BGB<sup>+16</sup>, CML19, Chi13, Chr14, CEM<sup>+19</sup>, IWB<sup>+13</sup>, Jac18, LS10a, LDA<sup>+13</sup>, MPHG10, Nel14a, Nel14b, PM19, Pet15, RCC<sup>+13</sup>, Ryp13, SRMB<sup>+15</sup>, SA16, Smi13, TH15, TBC<sup>+13</sup>, WMV<sup>+16</sup>, WBR11, WCYH18, Yas16, Zyd11, Ryp13]. **Fishers**

[AJF10, AJF13a, AJF13b, WCYH18]. **Fishery**

[ABS<sup>+11</sup>, BCM<sup>+19</sup>, CYW<sup>+19</sup>, CGDL18, DCS<sup>+17</sup>, DDMR10, DPS14, DCBKR14, GKG<sup>+19</sup>, GA10, HNRB19, KQ11, KAH16, KSB16, KYK17, PGW<sup>+11</sup>, SMO<sup>+14</sup>, VB14, WOM14]. **Fishery-Dependent** [DCBKR14].

**Fishery-Independent** [ABS<sup>+11</sup>, GKG<sup>+19</sup>]. **Fishes** [AHS<sup>+11b</sup>, BYM19, BGB<sup>+16</sup>, BS15, BSC<sup>+16</sup>, CHR<sup>+17</sup>, CT16, DWGF11, DWG14, DKS18, FMJ11, GP12, Gre12, HBC15, Han18, HLH14, HTH<sup>+17</sup>, HUSST19, JDS15, JBV13, KS11, LBBW17, LRR<sup>+15</sup>, Mat18, MK10, MLB18, MS12, MHPB14, MLBS<sup>+13</sup>, PF11a, Poe14, PA10, RA10, SF15, SGP16, SRMB<sup>+14</sup>, SHCB16, SPH<sup>+15</sup>, SL16, Sto10, WHSK19, WF11, Ber13, Gid14, Var13, Qui16].

**Fishing** [AJF13a, AJF13b, BBL<sup>+12</sup>, BNS<sup>+14</sup>, KK16, LLWW19, PAA14, PGS13, RSVAB19, TS13, ZM10, dHST13]. **Fishing-Related** [BNS<sup>+14</sup>].

**Fishpass** [CHH<sup>+16</sup>]. **Fishway**

[BMB<sup>+10</sup>, FMJ11, JCK<sup>+12</sup>, KCM14, RHEF19]. **Fishways**

[FHCSN12, KCJ<sup>+15</sup>, LMPvdH18]. **FishXing** [MCW<sup>+14</sup>]. **FISK** [HLH14].

**Fitness** [DWN<sup>+15</sup>, HWD14, PK11]. **Fitness-Related** [DWN<sup>+15</sup>]. **Five** [EWSR16, PA10]. **Fixation** [FH12]. **Fixed** [BFH14, PNMH<sup>+12</sup>].

**Fixed-Frame** [PNMH<sup>+12</sup>]. **Flannelmouth** [CGB19, FWBT17, WvPC12].

**Flatfishes** [RB18]. **Flathead** [BK11, FBP11, MSB<sup>+18</sup>, WZC<sup>+14</sup>]. **Flint** [SYH<sup>+15</sup>]. **Flood** [KKM11, MDT10]. **Flooding** [YHWH10]. **Floodplain** [AM13, DSRA12, GJC<sup>+18</sup>, HSG10, Lan16, MWS10, RW11, RAB<sup>+18</sup>].

**Florida** [Shi13, BLCN<sup>+10</sup>, CGDL18, CAB11, DG14, FWSW<sup>+15</sup>, Gre12, HAG13, MHHH10, PA10, RHKD12, SA14, SA16, SAS17, SGB13, TPLA16, TAM15, THL<sup>+17</sup>, WBMG10, YITI12, YYA<sup>+16</sup>]. **Flounder**

[AKM12, BFK15, BC12, Bel12, BL11, FDWG13, HPSA16, MHF12, NW14, RJ11, RJH12, WMG<sup>+14</sup>]. **Flow**

[Arc16, BBZGB15, BWHF17, FBWT19, GP12, HGS<sup>+16</sup>, HSE<sup>+12</sup>, MP10, OPHD18, PBB<sup>+15</sup>, PHHM12, RAB<sup>+18</sup>, RMW16, STK12, WKC18, YHWH10].

**Flow-Related** [OPHD18]. **Flow-Specific** [RAB<sup>+18</sup>]. **Flowing** [EMS<sup>+14</sup>].

**Flows** [EGAW12, FKH15, KKM11, YSC10]. **Fluctuating**

[GDM<sup>+10</sup>, GDM<sup>+11</sup>, HR15, KKM11, RB13, RBF14, ZBC<sup>+13</sup>]. **Fluctuation**

[TASC17]. **Fluid** [GKBG12]. **Flume** [MCH<sup>+</sup>13]. **Fluorescent** [HKP11, HLH14]. **Fluvial** [HGG<sup>+</sup>16, HCS<sup>+</sup>16, LB15]. **Following** [BS16, Lan16, HML13, PPJ15, RH14, RHR<sup>+</sup>15, SFB16, SFLH14, VWS13]. **fonticola** [DPB13]. **Food** [BCRP13, HTR13, JMM<sup>+</sup>11, KM14, KPZ<sup>+</sup>12, LB15, PK11, SW11, ZRM<sup>+</sup>16, vPWT12]. **Forage** [EB16, KHF<sup>+</sup>18, NR16, OGM<sup>+</sup>15, PW10b]. **Foraging** [CW11, DEW<sup>+</sup>14, HBB13, HRHS16, HDF12, JMB<sup>+</sup>13, NPW12, NCW<sup>+</sup>17, PMF<sup>+</sup>10, SK11, WDWC10, WB13b]. **Forced** [PKPS11]. **Forces** [NR16]. **Forebays** [KVA<sup>+</sup>19]. **Forecasting** [ZRM<sup>+</sup>16]. **Forest** [TPBB14]. **Forested** [FSFS17]. **Forests** [DWE<sup>+</sup>19]. **Fork** [ACDL19, HGBE16, SHCB16]. **Formalin** [FH12]. **Found** [LLWW19]. **Foundations** [Jac18]. **Fountain** [PAG11]. **Four** [BHC<sup>+</sup>13, CN11, DW13, FSJ<sup>+</sup>11, HML13, HWN15, MHF12, ODG<sup>+</sup>11, SCC17, THKG10]. **Four-Level** [THKG10]. **Fragmentation** [BBAK19, OMA13, PSGB13]. **Fragmented** [ACMM<sup>+</sup>15, SHR<sup>+</sup>12]. **Frame** [PNMH<sup>+</sup>12]. **Frameworks** [FA10]. **Francis** [PGW<sup>+</sup>11]. **Francisco** [ARL<sup>+</sup>12, BSSM12, BSC<sup>+</sup>16, KR18, NLF13, NR16, RKEB13a, RKEB13b, SBC<sup>+</sup>16, SMH<sup>+</sup>11]. **Fraser** [BNS<sup>+</sup>16, MPHG10, PGR13, REN17]. **Free** [BNC<sup>+</sup>15, EMS<sup>+</sup>14, Yas16]. **Free-Flowing** [EMS<sup>+</sup>14]. **Frequency** [BBF<sup>+</sup>18, GBB<sup>+</sup>14, MJHP18, MDT10, MBBM10, ZZMC13]. **Freshwater** [Ber13, BCF<sup>+</sup>13, BTWB17, CHW<sup>+</sup>13, DWE<sup>+</sup>19, DW13, EPR<sup>+</sup>18, Gid14, HMT12, HBC15, HTH<sup>+</sup>17, MCC<sup>+</sup>12, NDW10, Poe14, RR13, RDR<sup>+</sup>10, SJT<sup>+</sup>16, SGB13, SHP<sup>+</sup>19, SPH19, TB14, Var13, WDW11, vVO10]. **Fright** [ELC13]. **Frog** [BSHK<sup>+</sup>11]. **Frogs** [ACK17]. **Frozen** [OPS<sup>+</sup>14]. **Fry** [BCR13, HT13, JRP12, JSW<sup>+</sup>15, LME16, SVKK18, TB16]. **Fuca** [MBT10]. **Function** [CSD<sup>+</sup>14, SJGL16, TASC17, TL14]. **Functional** [EPR<sup>+</sup>18, MSWD15, PPF<sup>+</sup>16]. **Functioning** [HCR14]. **Functions** [HD16]. **Fundy** [WMW<sup>+</sup>12]. **Future** [DDMR10, DKS18, FJJ<sup>+</sup>12, HP13, SWS10, ZTC12].

**G** [HCD<sup>+</sup>14]. **Gag** [ABS<sup>+</sup>11]. **Gags** [RMMGPB16, SMMK12]. **Gain** [AGH18]. **Galaxias** [AUDL18]. **Game** [SWS10]. **Gar** [BSR12, BSD13, BSSP18, FS16, GCM12, KDS18, LS16, MRB<sup>+</sup>18, RAB<sup>+</sup>18, SDSB18]. **Gard** [Yas16]. **Gars** [DSM18, DKD<sup>+</sup>15, FVK<sup>+</sup>18, FDSB18, LS18, MSD18, SSM16, SKBS18]. **Gary** [HCD<sup>+</sup>14]. **Gas** [RMC<sup>+</sup>17, RCM<sup>+</sup>19, SDOK11]. **Gastric** [BN16, DEP<sup>+</sup>18]. **Gate** [PBB<sup>+</sup>15]. **Gauging** [BGLP19]. **Gear** [CCB16, PVJH15]. **Gears** [Poe14]. **geminata** [JC16]. **Gene** [CHO<sup>+</sup>15, GPBA18, HSE<sup>+</sup>12, MSWD15, NB13, WKC18]. **Generalist** [HSSS16, PHFN17, WDWC10]. **Generalized** [YJW11]. **Generation** [BSC<sup>+</sup>16, LFB<sup>+</sup>15, SKP<sup>+</sup>10]. **Generations** [DSHG10, ODG<sup>+</sup>11, SFLH14]. **Genes** [CPP<sup>+</sup>14, GPBA18]. **Genesis** [LS18]. **Genetic** [ACB<sup>+</sup>14, ADS<sup>+</sup>11, BLCN<sup>+</sup>10, BBAK19, BWRA16, BCM<sup>+</sup>19, BSC<sup>+</sup>16, BEMF11, BJC12, CN11, CKC<sup>+</sup>12, CVL<sup>+</sup>19, CMM<sup>+</sup>17, CHS<sup>+</sup>11, CTP<sup>+</sup>12, CEM<sup>+</sup>19, DSRA12, DSAM12, FPM13, FGW<sup>+</sup>16, GRS12, GSVS<sup>+</sup>10, HDBS14,

HBTT11, HBS12, HUMG<sup>+18</sup>, KSF13, KHK<sup>+15</sup>, KHHG13, KCMS11, LFB<sup>+15</sup>, LYX<sup>+10</sup>, LCHB<sup>+18</sup>, MBEvdB<sup>+10</sup>, MSP12, MDD<sup>+16</sup>, NHM10, NZF<sup>+11</sup>, NDP16, OWP<sup>+17</sup>, PZS17, PDSP<sup>+11</sup>, PRW<sup>+10</sup>, PGJ11, RSB14, RHKD12, RT14, SPM<sup>+17</sup>, SJT<sup>+16</sup>, SDK<sup>+10</sup>, STS<sup>+14</sup>, SMO<sup>+14</sup>, SFLH14, SSR<sup>+17</sup>, SBMH12, SS15c, TNOU11, TPBB14, VHJ<sup>+15</sup>, WAW11, WBR11, WSI14, WKS<sup>+19</sup>, WCN<sup>+19</sup>, WAKH12, WKC18, WCQD18, WLW16, WBM<sup>+17</sup>.

**Genetic-Based** [RSB14]. **Genetically** [HSE<sup>+12</sup>]. **Genetics** [AGKW12, BMOF16, CBM<sup>+13</sup>, MCD17, NB13, RPC14, SH10, Spi12].

**Genome** [BMTP13, MGP11]. **Genomic** [BYM19, BMP<sup>+17</sup>, SPM<sup>+17</sup>].

**Genotoxic** [VSBB<sup>+14</sup>]. **Genotypes** [HRR<sup>+11</sup>, SSH<sup>+11a</sup>]. **Genotypic** [CHO<sup>+15</sup>]. **Genotyping** [DPS14]. **Genus** [SDK<sup>+10</sup>]. **Geochemical** [AW19].

**Geographic** [CTN11, CHS<sup>+11</sup>, VCP<sup>+14</sup>, WDH14]. **Geography** [MSS<sup>+11</sup>]. **Geology** [NJ12]. **Geomorphic** [MP10]. **Georges** [ZC13].

**Georgia** [NBC15, BP16, BP17, FP19, FGW<sup>+16</sup>, JPF13, KTE<sup>+14</sup>, PB13, SP10, SJFF15]. **Georgian** [WLLCF16, WLW16]. **Ghost** [NB13]. **Giant** [BMH19]. **Gila** [MCD17]. **Gill** [BHC<sup>+18</sup>, PTPS10, PNMH<sup>+12</sup>, RB18, SZZ10].

**Gill-Net** [BHC<sup>+18</sup>, PTPS10]. **GIS** [WRP<sup>+12</sup>]. **GIS-Based** [WRP<sup>+12</sup>].

**Gizzard** [FBJR11, Mic10]. **Glacially** [WBD17, WRP<sup>+12</sup>]. **Glaciated** [BBM<sup>+14</sup>]. **Glaciation** [CKM<sup>+11</sup>]. **Glacier** [MDD<sup>+16</sup>]. **Glass** [GPBA18, SJGL16]. **Glass-Eel-Stage** [SJGL16]. **Global** [ILH<sup>+18</sup>, Lev18].

**Gloves** [ARB<sup>+18</sup>]. **Glue** [JLA17]. **Go** [SCF16]. **Goals** [BGLP19, HP13].

**Golden** [VFFP13]. **Goldfish** [LCO<sup>+15</sup>]. **Gonad** [BS16]. **Good** [MYS<sup>+11</sup>, RKEB13b]. **Government** [Lev18]. **Gradient** [FWD10, FDWG13, Mic10, MAK12, RSL11]. **Gradients** [CJG13]. **Grand** [SRMB<sup>+14</sup>, WvPC12, YCB<sup>+11</sup>, CYP11]. **Grande** [Arc16, BMB<sup>+10</sup>, HKO<sup>+18</sup>, HMP18, ZTC12, ZBC<sup>+13</sup>]. **Granite** [SMN<sup>+10</sup>].

**Grass** [GGC17]. **Grasse** [TCBI11]. **Gravel** [FSFS17, TM19]. **Gravel-Bed** [FSFS17]. **Gray** [FWSW<sup>+15</sup>, KSSK<sup>+17</sup>, SS11]. **Grayling** [BS13, CHH<sup>+16</sup>, DHA<sup>+17</sup>, DMW<sup>+19</sup>, RPC14]. **Grays** [RDR<sup>+10</sup>]. **Great** [BNS<sup>+14</sup>, MBG<sup>+11</sup>, PAB<sup>+11</sup>, PBM<sup>+12</sup>, SS15c, WDH14, BAKT12, BWHF17, BP10, CHT13, CHB<sup>+12</sup>, FBF10, FMJ11, HML13, IRJ11, JWHJ13, KSF13, KWW14, LRR<sup>+15</sup>, MM17, MBM10, MLB18, RAR<sup>+16</sup>, SC13, TH15].

**Greater** [BB10a, KKB<sup>+10</sup>, RGM<sup>+11</sup>]. **Green** [LEM<sup>+11</sup>, MBL<sup>+18</sup>, PGVG15]. **Greenland** [PDSP<sup>+11</sup>]. **Groove** [DMCO11].

**Groundfish** [DKL<sup>+17</sup>, GDPW10, MHF12, ZC13]. **Grounds** [HSA<sup>+16</sup>, MJS<sup>+19</sup>, RCC<sup>+13</sup>]. **Group** [AJF13a]. **Grouper** [CABNQ<sup>+13</sup>, GWG<sup>+19</sup>, RSVAB19]. **Groupers** [TA12]. **Groups** [SBMH12, SS15c, WCQD18]. **Growing** [LSPB11, MT19]. **Growth** [ASP<sup>+18</sup>, AS17, BMGL12, BDS10, BMH19, BSC<sup>+10</sup>, BS13, BVA11, CTN11, CM10, CT16, CGA13, CT12, CTPM13, CDB10, CPS<sup>+15</sup>, CSD<sup>+14</sup>, DEW<sup>+14</sup>, DKD<sup>+15</sup>, DWE<sup>+19</sup>, DBHV14, DMHO12, DF14, EWW13, EBA<sup>+19</sup>, Eva17, FBF10, FKF<sup>+19a</sup>, FMS10, GWOD18, GCG<sup>+18</sup>, GDM<sup>+10</sup>, GDM<sup>+11</sup>, GN13, Goo19, GSA<sup>+19</sup>, HNK<sup>+12</sup>, HSG10, HD16, HKO<sup>+18</sup>, HWHF14, HMP18, IBH12, JC16, JPHK10, JSW<sup>+15</sup>, JMM<sup>+11</sup>, KGW14, KM14, KCS<sup>+19</sup>,

KSSK<sup>+17</sup>, KHF<sup>+18</sup>, KKM11, KYK17, LBD<sup>+16</sup>, MSD<sup>+19</sup>, MT19, MSB<sup>+18</sup>, Mat18, MAH<sup>+12</sup>, MNB18, MCC<sup>+12</sup>, MHE12, MBH12, MBPP18, MLC13, MSWD15, NAWM14, NTHR18, OWN11, ODG<sup>+11</sup>, PBG<sup>+11</sup>, PK11, PJ11, PPH15, PRK<sup>+16</sup>, PA10, QSVD11, RBF14, RR13, RBF<sup>+11</sup>, RJWK10, RBH<sup>+12</sup>, SDW<sup>+17a</sup>, SB12b, SPR<sup>+16</sup>, SSM16, SLG<sup>+14</sup>, SAW<sup>+17</sup>, SJ14, TRLG13, TASC17, TRW10, TB14, TES14, TL15, UACS<sup>+19</sup>. **Growth** [VFB<sup>+16</sup>, WNCF10, WDW11, WB13a, WCD<sup>+11</sup>, vPWT12, vZNW12]. **Growth-Enhanced** [PK11]. **Growth-Mediated** [DBHV14]. **Guadalupe** [BLCB13]. **Guatemala** [BMH19]. **Guidance** [MJH17]. **Guide** [Ano11b, Ano12b, Ano13b, Ano14b, Ano16, Ano17b, Ano19i, SRMB<sup>+15</sup>]. **Guilds** [MRPW19]. **Gulf** [BAYS16, BCMPDSZ10, BJR14, CABNQ<sup>+13</sup>, Chr14, CGDL18, DSBS14, DSB<sup>+18</sup>, GGP<sup>+15</sup>, GCA<sup>+18</sup>, GSD<sup>+12</sup>, Han18, HPG10, JPHK10, MBPP18, MLC13, MS12, PS14, PDH<sup>+18</sup>, RCM<sup>+19</sup>, RMMGPB16, RSVAB19, SFB16, SGP16, SS11, SAW<sup>+17</sup>, SMMK12, SCB15, AKM12, ASP<sup>+18</sup>, BBC<sup>+14a</sup>, BBC<sup>+14b</sup>, DF12, FWSW<sup>+15</sup>, JPLS13, LKS<sup>+12</sup>, MHF12, MHPB14, PHG<sup>+16</sup>, TA12, WZK<sup>+15</sup>]. **Gulf-Strain** [DF12]. **Gun** [GIW<sup>+13</sup>, TLM<sup>+19</sup>]. **Gut** [BSSM12].

## **H** [Chr14, Fle16]. **Habitat**

[AS12, ACRA10, ACRAM11, ACWIK13, AKK<sup>+19</sup>, AGJ11, AMBM12, BEWM10, BQHR17, BAKT12, BBM<sup>+14</sup>, BWRA16, BB10b, BGOQ13, BW10, CTK<sup>+17</sup>, CAB11, DGMC17, DG13, DHA<sup>+17</sup>, DWG14, DFB15, DW16, DMW<sup>+19</sup>, DW13, DF12, DSB<sup>+18</sup>, DA16, EWW13, ELC13, EBMV10, FBF10, FPD12, FKH15, FFYI16, FS16, GPBA18, GCM12, GKG<sup>+19</sup>, GZB12, HPF<sup>+16</sup>, HSSS16, HKKS14, HK12, HGG<sup>+16</sup>, HGSG17, HPSA16, HM17, JZS<sup>+19</sup>, JADJ<sup>+14</sup>, KBO<sup>+12</sup>, KWW14, KCMS11, LKP<sup>+13</sup>, Lov11, MM17, MAH<sup>+12</sup>, MNM<sup>+17</sup>, MSS<sup>+11</sup>, MLS<sup>+13</sup>, MFH13, MKA10, MD11, MWKS13, MK15, NAW12, NDP16, NDW10, NCW<sup>+17</sup>, PSH<sup>+19</sup>, PKL<sup>+11</sup>, PHG<sup>+16</sup>, PB17, PTG<sup>+10</sup>, PCC<sup>+13</sup>, PPMJ14, PPW<sup>+14</sup>, PGVG15, PL13, RB12, RHW15, RSL11, RA10, RMM11, RLL<sup>+19</sup>, SHM<sup>+12</sup>, SMY11, SS11, SR15, SMS<sup>+12</sup>, STK12, SL16, SCB15, TD13, TRW10, TFM<sup>+18</sup>]. **Habitat** [UNTA10, WDR16, WCZT11, WZCT12, WSQ<sup>+15</sup>, WDWC10, WQD14, WS15, WZK<sup>+15</sup>, WRP<sup>+12</sup>]. **Habitat-Specific** [DSB<sup>+18</sup>]. **Habitats** [BP13, BDM<sup>+10</sup>, CGL<sup>+11</sup>, CR10, DBS<sup>+10</sup>, DHB15, Fre19, LDP19, MWS10, MJS<sup>+19</sup>, NRZ<sup>+13</sup>, RL14, RDH11, SJT<sup>+16</sup>, SAW<sup>+17</sup>, TES14, WDW11, WBMG10]. **Habits** [DG14, NCW<sup>+17</sup>, TRHHOGSJ14]. **Haddock** [BSM13, BJR14]. **Hake** [Han11]. **Hakes** [Fle16]. **Half** [BSC<sup>+16</sup>, HWD14, PHM17]. **Half-Lives** [BSC<sup>+16</sup>]. **Half-Pounder** [HWD14, PHM17]. **Halibut** [MHF12, dHST13]. **Haliotis** [BRS<sup>+12</sup>]. **Hall** [Chr14]. **Hall-Arber** [Chr14]. **Hallock** [Qui16]. **Handling** [ARB<sup>+18</sup>, EB16]. **Haplotypes** [RHKD12]. **Hard** [TVL<sup>+12</sup>]. **hardcover** [Ber13, Cha13, Fle16, Gid14, Nel14a, Pet15, Pra14]. **Hardened** [BT16, TT17]. **Harmful** [RGP17]. **Harrison** [BNS<sup>+16</sup>]. **Harvest** [CS16, MSH<sup>+14</sup>, SDSB18]. **Harvest-Induced** [CS16]. **Harvesting**

[SAF<sup>+</sup>19]. **Hatch** [AS17, KGW14, SPR<sup>+</sup>16]. **Hatchery** [Ano11a, BBGB15, BSS18, Bea10, BHS<sup>+</sup>17, BGV11, BCF<sup>+</sup>11, BRK<sup>+</sup>18, BCM<sup>+</sup>19, CCH15, CEFQ11, CML19, CFHE11, CWP<sup>+</sup>19, DWE<sup>+</sup>18, DML<sup>+</sup>10, EWW13, FPM15, HLB14, HSS17, HBTT11, HSF12, HSA<sup>+</sup>16, HM17, JSW<sup>+</sup>15, KMS<sup>+</sup>18, KPS<sup>+</sup>19, LHS<sup>+</sup>13, LMD<sup>+</sup>17, LFB<sup>+</sup>15, Lis14, Lis15, MM17, MSWS10, MFAS<sup>+</sup>12, MM10, MHE12, PB15, PT10, QSJ12, SKP<sup>+</sup>10, SCF16, SFLH14, SLG<sup>+</sup>14, SZZ10, SNI<sup>+</sup>13, TB16, TPLA16, TC11, TLM<sup>+</sup>19, WM12, WOM14, ZBW10]. **Hatchery-** [DML<sup>+</sup>10, LHS<sup>+</sup>13, MSWS10]. **Hatchery-Enhanced** [Bea10]. **Hatchery-Origin** [HSF12, HSA<sup>+</sup>16, WM12]. **Hatchery-Produced** [QSJ12]. **Hatchery-Reared** [SZZ10, SNI<sup>+</sup>13, TB16, TPLA16, TLM<sup>+</sup>19, ZBW10]. **Hatching** [TM19]. **Hawaii** [HLB<sup>+</sup>16]. **Head** [BW10, KVA<sup>+</sup>19, SH12, SHC<sup>+</sup>16]. **Headwater** [ACRA10, ACRAM11, BSGB17, CRH10, FRM18, HEW12, KLR<sup>+</sup>15, MBEvdB<sup>+</sup>10, WKS<sup>+</sup>19]. **Headwaters** [RSL11, SHR<sup>+</sup>12]. **Healing** [CHW<sup>+</sup>13, IBH12, LBD<sup>+</sup>16, PBG<sup>+</sup>11]. **Hearing** [CJGH13]. **Heat** [DMRK14]. **Heavily** [WHF<sup>+</sup>12]. **Heavyweight** [CCB16]. **Heithaus** [Shi13]. **Held** [CM10]. **Hemorrhagic** [EFC<sup>+</sup>11]. **Herring** [BDB<sup>+</sup>15, EB16, MHHH10, OSA<sup>+</sup>17, RRG<sup>+</sup>17, SNP<sup>+</sup>10, TL14, TL15]. **Hickory** [MR11]. **Hierarchical** [GHPS<sup>+</sup>16, HJS<sup>+</sup>16, MWT14, SL16, WBR11]. **High** [HPG10, HNV<sup>+</sup>18, KAH16, KVA<sup>+</sup>19, MSW<sup>+</sup>10, SRMB<sup>+</sup>14, SHC<sup>+</sup>16]. **High-Elevation** [HNV<sup>+</sup>18]. **High-Head** [KVA<sup>+</sup>19, SHC<sup>+</sup>16]. **High-Release** [KAH16]. **High-Resolution** [HPG10, MSW<sup>+</sup>10]. **Higher** [RMC<sup>+</sup>17]. **Highly** [CBW<sup>+</sup>16, DSRA12]. **Hill** [BBAK19]. **Hills** [PPF<sup>+</sup>16, PKP<sup>+</sup>17]. **Hind** [ZHWR11]. **Histo** [JLA17]. **Histo-Glue** [JLA17]. **Histocompatibility** [CPP<sup>+</sup>14]. **Histological** [RNG<sup>+</sup>13]. **Historic** [ZTC12]. **Historical** [CKM<sup>+</sup>11, FSRK11, HB18, HSE<sup>+</sup>12, KGC<sup>+</sup>12, MNS<sup>+</sup>19, WKC18, Var13]. **Historically** [Han11, HS13]. **Histories** [CBVF15, HCS<sup>+</sup>16, JJC12]. **History** [AKM12, ADS<sup>+</sup>11, BNS<sup>+</sup>16, BCRP13, BBC14c, BHP<sup>+</sup>15, BCM<sup>+</sup>19, CKC<sup>+</sup>12, CJG13, DBHV14, DMHM<sup>+</sup>18, FBWZ19, FH17, GA17, HRB<sup>+</sup>16, HDBS14, HP13, HWD14, HWD<sup>+</sup>16, HS13, JWHJ13, KBG<sup>+</sup>18, LDLH15, LHS<sup>+</sup>13, LMD<sup>+</sup>17, LCO<sup>+</sup>15, MSBT10, MSWS10, PJ11, PHM17, PTG<sup>+</sup>10, QSVD11, SCC17, SWH<sup>+</sup>17, SMS<sup>+</sup>12, Stu18, TKC<sup>+</sup>18, TTW<sup>+</sup>11, VBJS10, WAW11, WDW11, Yas16, ZSVK13, ZKB<sup>+</sup>15, dHST13]. **Hitch** [BYM19]. **Holes** [GWG<sup>+</sup>19]. **Holiday** [AFHF12]. **Home** [BAHP11, PS14, SK11]. **Homing** [BQF<sup>+</sup>19, DML<sup>+</sup>10]. **Hood** [CKFQ11, MBT10]. **Hooking** [HBC15]. **Hoop** [SL16, Sto10]. **Hoop-Net** [Sto10]. **Hoop-net-Based** [SL16]. **Hopkins** [Qui16]. **Horizon** [MHBP14, SFB16]. **Horizontal** [SFF<sup>+</sup>10]. **Hormone** [GWOD18, GPBA18, MSWD15]. **Hormone-Coding** [GPBA18]. **Hornyhead** [HMW19]. **Horseshoe** [MBP<sup>+</sup>11]. **Host** [PM10, SPCJ11]. **Hosts** [MOS13]. **Householders** [AJF10]. **Hudson** [BAHP11, PSH<sup>+</sup>19]. **Humpback** [CCL<sup>+</sup>19, SPH<sup>+</sup>15, WMS15]. **Humphries** [Ber13]. **Huron**



[GRDO13, JKP10, BAKT12, BBS12, CBMR14, IHTF11, OTR<sup>+14</sup>, PRK<sup>+16</sup>, RA10, RSBF14, SJ14, WLLCF16, WLW16]. **Hurricane** [vVO10]. **Hybrid** [BDB<sup>+15</sup>, Nel14a, ODG<sup>+11</sup>, TBGM12]. **Hybridization** [BDTD17, BGOQ13, DWN<sup>+15</sup>, ER18, GLM<sup>+15</sup>, JHK<sup>+19</sup>, KCMS11, LCHB<sup>+18</sup>, SDK<sup>+10</sup>, SLM10]. **Hybridizing** [DSHG10]. **Hybrids** [MKHC17]. **Hydraulic** [BGV11]. **Hydro** [BCG<sup>+12</sup>]. **Hydro-Turbine** [BCG<sup>+12</sup>]. **Hydroacoustic** [BSCA17]. **Hydroacoustics** [OSS<sup>+17</sup>]. **Hydrocarbon** [MHPB14]. **Hydroelectric** [EWSR16, MBPA13]. **Hydrogeographic** [BJC12]. **Hydrographic** [FRRCGA<sup>+15</sup>]. **Hydrokinetic** [BES15]. **Hydrologic** [GJC<sup>+18</sup>]. **Hydrological** [MC14, WBD17]. **Hydrologically** [STK12]. **Hydrology** [BKC<sup>+19</sup>]. **Hydropower** [SZGS12]. **Hydroprogne** [ARL<sup>+12</sup>]. **Hydroturbine** [PBC12]. **Hypothesis** [MNM<sup>+17</sup>]. **Hypoxia** [AW19, BAR15, DMW<sup>+19</sup>, GCA<sup>+18</sup>, RBF<sup>+11</sup>, SCB15]. **Hypoxic** [RCM<sup>+19</sup>].

**Ice** [BDM<sup>+10</sup>]. **Ice-Covered** [BDM<sup>+10</sup>]. **Icelandic** [AHS10]. **Ichthyophoniasis** [ZKH12]. **Ichthyoplankton** [CHPG12, HPG10, SWB<sup>+16</sup>]. **Idaho** [CML19, CM11b, KMS<sup>+18</sup>, KU12, KCMS11, KPS<sup>+19</sup>, SK11, UK14, WSQ<sup>+15</sup>]. **Identification** [ACB<sup>+14</sup>, BFK15, BCP<sup>+11</sup>, CKC<sup>+12</sup>, DPS14, FVK<sup>+18</sup>, GDPW10, GGP<sup>+15</sup>, GBB<sup>+14</sup>, HWH10, JHK<sup>+19</sup>, MJHP18, MSW<sup>+10</sup>, MBBM10, PHFN17, SMO<sup>+14</sup>]. **Identifies** [MGP11]. **Identify** [BDM<sup>+10</sup>, GMP<sup>+11</sup>, TFM<sup>+18</sup>, WRP<sup>+12</sup>]. **Identifying** [BBM<sup>+14</sup>, CM11a, FJJ<sup>+12</sup>, FSRK11, TLM<sup>+19</sup>, VHPP19]. **Identity** [LS10a, TM19]. **II** [PM10, CPP<sup>+14</sup>, RKEB13b]. **III** [KR18, YSC10]. **Illinois** [KMM<sup>+11</sup>, Pra14, HCD10]. **Image** [GKBG12]. **Image-Analysis-Based** [GKBG12]. **Imagery** [DFB15]. **Images** [BFM10, MVK12]. **Imaging** [OSA<sup>+17</sup>]. **Immature** [HSM<sup>+10</sup>]. **Immediate** [TBC<sup>+13</sup>]. **Immediate-Release** [TBC<sup>+13</sup>]. **Immigration** [PHG<sup>+16</sup>]. **Immobilization** [ARB<sup>+18</sup>, NYCC19]. **Immune** [TASC17]. **Imnaha** [BCF<sup>+11</sup>]. **Impact** [AS12, BHS<sup>+17</sup>, BP10, EWSR16, MGWP10, MMY12, SSR<sup>+17</sup>]. **Impacts** [AUDL18, BGLP19, BDTD17, BS18, CORM13, FPD12, FBB<sup>+13</sup>, IRJ11, JBV13, MDT10, SBO12, TD13, THL<sup>+17</sup>, VFFP13, WAD<sup>+17</sup>, ZRM<sup>+16</sup>]. **Impaired** [WDR16]. **Impairment** [CCB16]. **Impairs** [ZZD10]. **Impassable** [HSM12]. **Impedance** [DYWY17, GvdHBC12, HH11, HHJH17, VSC15]. **Impede** [LRW13, WZC<sup>+14</sup>]. **Impediments** [HPSA16]. **Imperiled** [FK18, FWBT17, GS16, HMW19, MKA10]. **Implant** [HB17]. **Implantation** [DBB<sup>+12</sup>, JDS15, MRB<sup>+18</sup>, MGW13, SHH<sup>+19</sup>]. **Implanted** [CHR<sup>+17</sup>, DBC<sup>+10</sup>, DM11b, FMS10, KHF<sup>+18</sup>, NB12]. **Implanting** [RPVS15, SNP<sup>+10</sup>, TPA14]. **Implications** [Ada18, BLCB13, BS18, BWRA16, BCM<sup>+19</sup>, BMTP13, CHB<sup>+12</sup>, CBSB15, CPS<sup>+15</sup>, DPB13, DCM10, FMJ11, FBS<sup>+14</sup>, FBWT19, HGG<sup>+16</sup>, JAA<sup>+13</sup>, JMM<sup>+11</sup>, JBV13, LRH12, LPM<sup>+17</sup>, MCO<sup>+10</sup>, PBC12, PDM<sup>+14</sup>, RRA<sup>+15</sup>, RG15, SA16, SJMG14, SDSB18, SHC<sup>+16</sup>, SPH<sup>+15</sup>, SPCJ11, TBTS12, TJB<sup>+14</sup>, TF13, WBM<sup>+17</sup>, ZTC12]. **Importance**

[BMM10, CVB14, MNS<sup>+</sup>19, RL19, TAM15]. **Important** [HCR14, HGG<sup>+</sup>16, WS15]. **Impounded** [BW10, GBW16, HSM12]. **Impoundment** [HS13]. **Impoundments** [HHES13, KTE<sup>+</sup>14, SSR<sup>+</sup>17]. **Imprinting** [HDQ<sup>+</sup>17]. **Improve** [CGL<sup>+</sup>11]. **Improved** [FWSW<sup>+</sup>15, STZ13]. **Improvement** [BWRA16, WCZ<sup>+</sup>18]. **Inbreeding** [BBAK19]. **Incidental** [BMC<sup>+</sup>13]. **Incision** [BHC<sup>+</sup>13, BDBE11, PBG<sup>+</sup>11]. **Incisions** [JLA17]. **Inconnu** [Stu18]. **Incorporating** [HGS<sup>+</sup>16, TP11]. **Increase** [WHC<sup>+</sup>10]. **Increased** [AHS11a]. **Increases** [BRGR10, BRK<sup>+</sup>18, HEW12, MBG10, PPJ15]. **Increasing** [IMO<sup>+</sup>14, MJH17, TNS<sup>+</sup>14, VJGV11]. **Incubation** [KKM11]. **Incurred** [RCC<sup>+</sup>13]. **Independent** [ABS<sup>+</sup>11, AJF13a, GKG<sup>+</sup>19]. **Indeterminate** [GDG<sup>+</sup>15, HMO14]. **Index** [ACRA10, CYW<sup>+</sup>19, IB14, Lov11, MAK12, PKP<sup>+</sup>17]. **Indexing** [HAG13]. **Indian** [CAB11]. **Indiana** [HDH16, MFH13]. **Indicate** [BH11, FDWG13, QSJ12]. **Indications** [ZHWR11]. **Indicator** [SMO<sup>+</sup>14, SNC<sup>+</sup>10]. **Indicators** [ARB<sup>+</sup>18, BS16, KH13]. **Indices** [ABS<sup>+</sup>11, DA16, LMD<sup>+</sup>17, PAB<sup>+</sup>11, PMN19, PDM<sup>+</sup>14, SF17, vS10]. **Indigenous** [Gre12]. **Individual** [Dud19, HERC12, JK17, KR18, MGK<sup>+</sup>18, RKEB13a, RKEB13b, SDBB12, UACS<sup>+</sup>19, WR14]. **Individual-Based** [Dud19, KR18, RKEB13a, RKEB13b, SDBB12, WR14]. **Individuals** [ARC<sup>+</sup>13, PWP13]. **Indo** [CORM13]. **Indo-Pacific** [CORM13]. **Induce** [VSB<sup>+</sup>14]. **Induced** [CS16, GWB<sup>+</sup>15, MBP<sup>+</sup>11, PM10, THL<sup>+</sup>17]. **Induction** [TBGM12]. **Inertia** [SBO12]. **Inexpensive** [KM10]. **Infection** [MFR15]. **Inference** [CHLN15]. **Inferior** [vS10]. **Inferred** [BL11, HOWS10, STS<sup>+</sup>14, VB14, WB13b]. **Inferring** [BA13]. **Infers** [PTG<sup>+</sup>10]. **Infestations** [JZBP16]. **Inflow** [SGB13]. **Influence** [ARC<sup>+</sup>13, AS17, BQF<sup>+</sup>19, CCH15, CGB19, CEFQ11, FRRCGA<sup>+</sup>15, HH11, HARL18, HUMG<sup>+</sup>18, HERC12, HDF12, JC16, KGW14, KM14, KLS17, KS11, KRM11, KRM13, Lis14, Lis15, LCO<sup>+</sup>15, MPHG10, MP10, MBPA13, MSS<sup>+</sup>11, NTHR18, OWP13, PBG<sup>+</sup>11, PW10b, PWP13, PK11, RPSB14, RJWK10, RHR<sup>+</sup>15, SMY11, SCW<sup>+</sup>13, SM13a, SHP<sup>+</sup>19, SPH19, TRLG13, TRMC15, TW14, TPBB14, TF13, VHJ<sup>+</sup>15, WDR16, WCZ<sup>+</sup>18, WQD14]. **Influenced** [HRHS16, VSC15, WBD17]. **Influences** [BBGB15, BDS10, BHD<sup>+</sup>16, CKM<sup>+</sup>11, DSM18, HMTTC12, JPFB13, KCMS11, MSK15, MBH12, PTWK11, PKL<sup>+</sup>11, PTPS10, RR13, TB16]. **Influencing** [GGG10, KVA<sup>+</sup>19, MNB18, MD11, MSP12, PPF<sup>+</sup>16, SAS17, TTM<sup>+</sup>15]. **Inform** [PSH<sup>+</sup>19]. **Information** [Ano18a, Ano18b, Ano18c, Ano18d, Ano18e, Ano18f, Ano19b, Ano19c, Ano19d, Ano19e, Ano19f, Ano19g]. **Informs** [MCD17]. **Inhibit** [BNS<sup>+</sup>14]. **Initial** [CTP<sup>+</sup>12, TPLA16]. **Injected** [LBD<sup>+</sup>16]. **Injections** [SSH11b]. **Injuries** [BHC<sup>+</sup>18]. **Injury** [BCG<sup>+</sup>12, ZZD10]. **Inland** [MWSS13, Nel14a, NDP16]. **Inner** [WMW<sup>+</sup>12, PDH<sup>+</sup>18]. **Inorganic** [WHC<sup>+</sup>10]. **InSAR** [TFM<sup>+</sup>18]. **Insects** [HWH10]. **Insertion** [DEP<sup>+</sup>18]. **Inshore** [PDSP<sup>+</sup>11]. **Insight** [TRW10]. **Insights** [ACDL19, BCS19, CMM<sup>+</sup>17, HBB13, HLR<sup>+</sup>12, HPSA16].

**Instability** [ODG<sup>+</sup>11]. **Instantaneous** [BS13]. **Instream** [ACWIK13, JADJ<sup>+</sup>14, MK15, PPMJ14, PPJ15, RMW16, STK12].  
**Instrument** [VSC15]. **Intact** [BWHF17]. **Intake** [HGS<sup>+</sup>16]. **Integrated** [BBS12, CHR<sup>+</sup>17, Cla16, DWE<sup>+</sup>18, DM11b, DMR<sup>+</sup>10, ELC13, EHR<sup>+</sup>12, EPT<sup>+</sup>16, HB17, HLK11, MCC<sup>+</sup>12, SDW<sup>+</sup>17a]. **Integrating** [HEC<sup>+</sup>15, MRPW19, WB15a]. **Integration** [HD16]. **Integrity** [PKP<sup>+</sup>17].  
**Intensity** [MDT10]. **Intensive** [BJA<sup>+</sup>13]. **Interaction** [HB18].  
**Interactions** [BES15, CW11, CBW<sup>+</sup>16, DW13, FRA13, Han18, HBB17, LRH12, Mit16, PCFH17, SPR<sup>+</sup>16, WDDS13, WDWC10]. **Interactive** [CCB16]. **Interannual** [IHTF11, RJWK10]. **Interconnected** [HRHS16].  
**Interferometric** [TFM<sup>+</sup>18]. **Interior** [ACRA10, ACRAM11, MKH10, PBB<sup>+</sup>15]. **Intermediate** [SPCJ11].  
**Intermittency** [Arc16]. **Intermittent** [HUSST19, OPHD18].  
**Intermittently** [MSH17]. **Internal** [GWOD18, JDS15]. **Interoceanic** [MJGV14]. **Interpreting** [CBVF15, SS15a]. **Interregional** [PF11a].  
**Intersex** [KTE<sup>+</sup>14]. **Interspecies** [CM11b]. **Interspecific** [HNV<sup>+</sup>18].  
**Interstitial** [MYS<sup>+</sup>11]. **Intersystem** [PW10a]. **Intertidal** [DHB15].  
**Intervals** [SMN<sup>+</sup>10]. **Intra** [PW10a]. **Intra-** [PW10a]. **Intrabasin** [CR10].  
**Intracoelemic** [CHW<sup>+</sup>13, MRB<sup>+</sup>18]. **Intraperitoneal** [NB12].  
**Intraspecific** [HNV<sup>+</sup>18, MWSS13]. **Intrinsic** [MT19]. **Introduced** [BK11, LRH12, LYX<sup>+</sup>10, MSB<sup>+</sup>18, MMY12, SBO12, THKG10, VHJ<sup>+</sup>15, WCD<sup>+</sup>11].  
**Introduction** [DKS18, JJNB17, SDOK19, SM13b, TNOU11]. **Introductions** [NB13]. **Introgressive** [BLCB13, GLM<sup>+</sup>15, JHK<sup>+</sup>19, SLM10]. **Inundation** [RAB<sup>+</sup>18]. **Invaded** [SDOK19]. **Invasion** [ABM17, KRRW18, LDLH15, LCO<sup>+</sup>15, MBG10, RO16]. **Invasions** [HML13].  
**Invasive** [BSSM12, CORM13, CHLN15, DAA<sup>+</sup>16, ER18, FRBA13, FRA13, GS16, GMB<sup>+</sup>19, KU12, LV14, NAG13, SS13, TD13, UK14, ZBHW16].  
**Invasiveness** [HLH14, JMM<sup>+</sup>11]. **Invertebrate** [PHFN17]. **Invertebrates** [AMM<sup>+</sup>16]. **Investigate** [BBG<sup>+</sup>18]. **Investigation** [BBL<sup>+</sup>12]. **Investment** [OWN11]. **Irrigated** [WHF<sup>+</sup>12]. **Irrigation** [SO12]. **Island** [LSSYL10, MHF12]. **Islands** [GRS12, Spi12]. **Isle** [GSJS17, MBZ<sup>+</sup>14].  
**Isolated** [CRH10, OWP<sup>+</sup>17, WKS<sup>+</sup>19]. **Isolation** [KRRW18, SDK<sup>+</sup>10, SHR<sup>+</sup>12, SE11, SSR<sup>+</sup>17]. **Isotope** [BL11, CHLN15, OPS<sup>+</sup>14, WB13b]. **Isotopes** [PBW16, QSJ12, RMM11, VSBC13]. **Isotopic** [GDPW10, HUMG<sup>+</sup>18]. **Issue** [Ano18a, Ano18b, Ano18c, Ano18d, Ano18e, Ano18f, Ano19b, Ano19c, Ano19d, Ano19e, Ano19f, Ano19g]. **Issues** [TBC<sup>+</sup>13]. **Iteroparity** [CBAC19]. **IVb** [EFC<sup>+</sup>11].

**J** [Chr14, Var13]. **Jack** [JJC12]. **James** [Nel14a, BMGL12, BGV<sup>+</sup>12]. **Jams** [FSFS17]. **Japanese** [STS<sup>+</sup>14]. **Jeffrey** [Shi13]. **Jennings** [LDA<sup>+</sup>13].  
**Jeremy** [Chi13]. **Jim** [YITI12]. **Joaquin** [FSP<sup>+</sup>17, LHHL17, PBB<sup>+</sup>15].  
**John** [DCS<sup>+</sup>17, Shi13, TL17, UWL12a, UWL12b, UPT<sup>+</sup>13, Zyd11]. **Johns** [MHHH10, Qui16, TAM15]. **Jolly** [CBSB15]. **Juan**

[BBF<sup>+18</sup>, BRS<sup>+12</sup>, CGM15, DF14, GP12, MBT10, PFG19]. **Jumping** [FMJ11]. **June** [KWCI10]. **Juvenile** [ABS<sup>+11</sup>, ARL<sup>+12</sup>, ASJ15, AAD14, AIC13, AS17, BMF<sup>+15</sup>, BP16, BFK15, BLG<sup>+13</sup>, BAHP11, BBC<sup>+14a</sup>, BBC<sup>+14b</sup>, BQHR17, BCRP13, BRS<sup>+12</sup>, BDBE11, BGW<sup>+17</sup>, BES15, BCG<sup>+12</sup>, CJM<sup>+15</sup>, CBVF15, CT16, CRC<sup>+16</sup>, CC16, CHW<sup>+13</sup>, CVB14, CBM15, DEW<sup>+14</sup>, DWE<sup>+18</sup>, DBC<sup>+10</sup>, DBB<sup>+12</sup>, DH11, DBS<sup>+10</sup>, DJ17, DHB15, DF14, EBG18, EPW15, EGAW12, ETC18, EHR<sup>+12</sup>, EHC<sup>+14</sup>, EPT<sup>+16</sup>, FCG<sup>+17</sup>, FBS<sup>+14</sup>, FRM18, FP19, FBH<sup>+13</sup>, GGS10, GvdHBC12, GDM<sup>+10</sup>, GDM<sup>+11</sup>, GJC<sup>+18</sup>, GNMM12, HPF<sup>+16</sup>, HSSS16, HGBE16, HOGO10, HJM<sup>+12</sup>, HTR13, HBB17, HWH10, HSG10, HER<sup>+11</sup>, HERC12, HPHB10, JBC<sup>+12</sup>, JPSM12, JAA<sup>+13</sup>, JADJ<sup>+14</sup>, JM14, LMD<sup>+17</sup>, LRM<sup>+10</sup>, LJHL10, LBD<sup>+16</sup>, MGWP10, MC14, MSH17, MSS<sup>+11</sup>, MLS<sup>+13</sup>, MBH16, MCC<sup>+12</sup>, MJH17, MFR15, MBL12, MGW13, MAN<sup>+12</sup>, MCT17, MCH<sup>+13</sup>, MCP<sup>+15</sup>, MK15, NPW12, NRZ<sup>+13</sup>, NBC15, NLF13, OPHD18, PBG<sup>+11</sup>, PNM<sup>+10</sup>]. **Juvenile** [PPF<sup>+13</sup>, PBB<sup>+15</sup>, PPH15, PKL<sup>+11</sup>, PBC12, PPP<sup>+13</sup>, PM15, PM10, QHS<sup>+13</sup>, RSB14, RRA<sup>+15</sup>, RGM<sup>+11</sup>, RDR<sup>+10</sup>, RBH<sup>+12</sup>, SZGS12, SPC<sup>+18</sup>, SJT<sup>+16</sup>, SMJ14, SF15, SGP16, SP10, SSH<sup>+11a</sup>, SSH11b, SBW14, SO12, SHH<sup>+19</sup>, SCF16, SDOK11, SHC<sup>+16</sup>, SS15b, SHP<sup>+19</sup>, SMMK12, SCB15, TA13, TD13, TPA14, TPLA16, TCBI11, TTW<sup>+11</sup>, TL15, VBJS10, WMS15, WM12, WB13b, WAKH12, WTB10, ZKB<sup>+15</sup>, vZNW12]. **Juveniles** [LSPB11, SF17, TKC<sup>+12</sup>, WCZT11].

**kamtschatkana** [BRS<sup>+12</sup>, BRS<sup>+12</sup>]. **Kansas** [FPD12]. **Karluk** [Yas16]. **Katrina** [vVO10]. **Keith** [Ber13]. **Keller** [Chi13]. **Kelt** [PM14]. **Kennebec** [WS15, WZK<sup>+15</sup>]. **Ketotestosterone** [MGK<sup>+18</sup>]. **Key** [CGA13, GPBA18, MWG18]. **Killifish** [Gre12]. **King** [SFF<sup>+10</sup>]. **Kirikuchi** [SDK<sup>+10</sup>]. **Kit** [HLH14]. **Klamath** [BHD<sup>+16</sup>, PGJ11, CRC<sup>+16</sup>, FMG<sup>+11</sup>, HWD14, HWD<sup>+16</sup>, KHHG13, SMO<sup>+14</sup>, Str10, Str12]. **Klickitat** [NZF<sup>+11</sup>]. **Klimley** [Pra14]. **Kodiak** [MHF12]. **Kokanee** [HGB<sup>+16</sup>, OWP<sup>+17</sup>, SBO12, WQD14, WCQD18]. **Kootenai** [WSQ<sup>+15</sup>, BQHR17, HP13]. **Kootenay** [SNI<sup>+13</sup>]. **Kopf** [Chi13]. **Kuskokwim** [Stu18].

**L** [Chr14, Ryp13]. **L.** [ACK17]. **Laboratory** [CM10, LDP19, MDP12, MT19, MAN<sup>+12</sup>, PPH15, SS13, WBH10]. **Laboratory-Based** [PPH15]. **Lack** [BDS10, WBD14]. **Lagoon** [CAB11]. **Lagoons** [TFM<sup>+18</sup>]. **Lahontan** [BRGR10, HB18, PRW<sup>+10</sup>]. **Lake** [AHS<sup>+11b</sup>, BDS10, BP13, BAHP11, BAKT12, BRGR10, CSED10, CHT13, CM11a, CSD<sup>+14</sup>, DG13, DMW<sup>+19</sup>, DCJ<sup>+13</sup>, DM11a, DMR<sup>+10</sup>, FPR<sup>+18</sup>, FSC<sup>+13</sup>, GRDO13, GSR<sup>+11</sup>, GSJS17, GS13, GZB12, HNK<sup>+12</sup>, HML13, HB18, HDH16, IHTF11, JRBC13, JKP10, JBV13, KGC<sup>+12</sup>, KBG<sup>+18</sup>, KWS14, KPS<sup>+19</sup>, LME16, MNS<sup>+19</sup>, MSWS10, MWSS13, MBPA13, MNM<sup>+17</sup>, MNB18, MFH13, MD11, MBZ<sup>+14</sup>, NB12, PNM<sup>+10</sup>, PTPS10,

RB12, RA10, RJWK10, SBO12, SH10, SCW<sup>+13</sup>, SDOK19, SBW14, SJMG14, SCF16, SIKR17, SBC17, SGK16, TA13, TCBI11, THKG10, VCP<sup>+14</sup>, VFB<sup>+16</sup>, WDW11, WLLCF16, BBGB15, BAKT12, BR11, BMM10, BBS12, BHG<sup>+10</sup>, BBG<sup>+18</sup>, BMR<sup>+12</sup>, CHT13, DSAM12, ESD<sup>+17</sup>, EBA<sup>+19</sup>, Esh14, FBB<sup>+13</sup>, GS13, HNK<sup>+12</sup>, HDBS14, HML13, HSE<sup>+12</sup>, JMB<sup>+13</sup>, JRBC13, KWCI10, KCS<sup>+19</sup>, KRM11, KRM13, MBG10, MCO<sup>+10</sup>, MLBS<sup>+13</sup>, OTR<sup>+14</sup>]. **Lake** [PGW<sup>+11</sup>, PB16, PRK<sup>+16</sup>, PDM<sup>+14</sup>, RCD<sup>+11</sup>, RMM11, RSBF14, SS18a, SPR<sup>+16</sup>, SRP<sup>+18</sup>, SWC13, SJ14, THKG10, TJB<sup>+14</sup>, VB14, WLW16, WBD14, YJW11, ZRM<sup>+16</sup>, ZZMC13, vVO10]. **Lake-Scale** [MFH13]. **Lake-Type** [PNM<sup>+10</sup>]. **Lakes** [AM13, BB10b, FJJ<sup>+12</sup>, HAG13, HRHS16, HNV<sup>+18</sup>, JK17, LSPB11, MSS<sup>+11</sup>, MFH13, MKH13, PTPS10, PCC<sup>+13</sup>, PM10, RBK<sup>+11</sup>, SS13, TBL<sup>+17</sup>, WSI14, WB13a, WBWSK12, BAKT12, CHB<sup>+12</sup>, CBMR14, HML13, IRJ11, JWHJ13, KSF13, KWW14, LRR<sup>+15</sup>, MM17, MBM10, PBM<sup>+12</sup>, RAR<sup>+16</sup>, SC13, SS15c, TH15]. **Lakes-** [BAKT12]. **Lakes-Origin** [BAKT12]. **Lakewide** [HBS12, MCO<sup>+10</sup>]. **Lampetra** [JSW12]. **Lamprey** [CHB<sup>+12</sup>, HB17, KCJ<sup>+15</sup>, MSW<sup>+14</sup>, MJHP18, MAN<sup>+12</sup>, MOS13, RG15, RG16, SS15a, YSW<sup>+14</sup>]. **Lampreys** [BMM10, CHB<sup>+12</sup>, Esh14, Eva17, HJS<sup>+16</sup>, HCZ13, HBA<sup>+15</sup>, JCK<sup>+12</sup>, JSW12, KCM14, MCC<sup>+12</sup>, MJH17, NAW12, SS18b, SJ14]. **Land** [DWGF11, GNMM12, HDH16, RBK<sup>+11</sup>, SWS10]. **Land-Locked** [RBK<sup>+11</sup>]. **Land-Use** [HDH16]. **Landings** [CYW<sup>+19</sup>]. **Landlocked** [HGB<sup>+16</sup>, WBD14]. **Landsburg** [BLB<sup>+13</sup>]. **Landscape** [ACMM<sup>+15</sup>, BCH<sup>+11</sup>, CTPM13, DFB15, FSJ<sup>+11</sup>, Spi12, WDDS13, WBWSK12]. **Landscape-Based** [WBWSK12]. **Landscape-Scale** [WDDS13]. **LaPlatte** [PPD16]. **Large** [BAHP11, BBM<sup>+14</sup>, CHMG<sup>+18</sup>, CTPM13, CM11b, DK18, DEW<sup>+14</sup>, DWE<sup>+18</sup>, EMS<sup>+14</sup>, GJC<sup>+18</sup>, HUSST19, JCK<sup>+12</sup>, JSW12, KCZH14, KCJ<sup>+15</sup>, KKM11, MCH<sup>+13</sup>, PCC<sup>+13</sup>, PE14, PRK<sup>+16</sup>, RHEF19, RPC14, RBZ<sup>+17</sup>, RA10, SPH<sup>+15</sup>, SFF14, WRQH17, WDW11]. **Large-Bodied** [SFF14]. **Large-Dam** [KCJ<sup>+15</sup>]. **Large-River** [CTPM13, HUSST19, RBZ<sup>+17</sup>, SPH<sup>+15</sup>]. **Large-Scale** [CM11b, DK18, JCK<sup>+12</sup>, PE14, PRK<sup>+16</sup>, RA10]. **Largemouth** [ARC<sup>+11</sup>, ARC<sup>+13</sup>, BNW<sup>+12</sup>, BAR15, CBW<sup>+16</sup>, CCB16, EPW15, FDWG13, GWB<sup>+15</sup>, GDWD10, GA10, HBS12, HVD<sup>+16</sup>, HDF12, KTE<sup>+14</sup>, Lov11, MFH13, NDC<sup>+14</sup>, NTHR18, NDW10, PW10a, PWP13, PET<sup>+17</sup>, SPC<sup>+18</sup>, SA16, SS15b, TPA14, TAM15, VWS13]. **Larger** [MS12]. **Larvae** [ESD<sup>+17</sup>, FRRCGA<sup>+15</sup>, GNV<sup>+14</sup>, KWCI10, LSPB11, RAR<sup>+16</sup>, UPT<sup>+13</sup>]. **Larval** [ABS<sup>+11</sup>, BH11, CHB<sup>+12</sup>, DA12, EBA<sup>+19</sup>, Eva17, GRDO13, HJS<sup>+16</sup>, HGSG17, JPLS13, JSW12, LJHL10, NYCC19, PM10, PDM<sup>+14</sup>, SS13, TL17]. **Latent** [SZGS12, SBO12]. **Lateral** [PPP<sup>+13</sup>, SMH<sup>+11</sup>]. **Laterally** [KHF<sup>+18</sup>]. **Latitudinal** [MT19]. **Lauer** [LDA<sup>+13</sup>]. **Laurel** [BBAK19]. **Lavage** [BN16]. **Lawrence** [EFC<sup>+11</sup>, Han18, ZZMC13, MLC13]. **Lead** [FS16]. **Lean** [GSR<sup>+11</sup>, SJMG14]. **Led** [Lev18]. **Lee** [Yas16]. **Legacy** [AW19, PRW<sup>+10</sup>, PSGB13]. **Legumine** [ACK17]. **Length** [ASP<sup>+18</sup>, BSM13, BFM10, CGA13, DLHF16, DL13, FBWZ19, GBB<sup>+14</sup>, HS17, KQ11, KK16,

RGM<sup>+11</sup>, SDSB18, TRMC15, THGA15, TB16, ZM10, ZC13, ZZMC13].  
**Length-** [KK16]. **Length-at-Age** [ASP<sup>+18</sup>, DLHF16]. **Length-Based** [SDSB18, THGA15]. **Length-Cohort** [ZM10]. **Lengths** [HGP<sup>+17</sup>, MFH13].  
**Lentic** [LRH12]. **Leopard** [ACK17]. **Lepisosteus** [SKBS18].  
**Lernaeopodidae** [MFR15]. **Lesions** [MHPB14]. **Less** [AJF10, CHLN15].  
**Level** [BMM10, FQW<sup>+10</sup>, GA10, NDW10, PM19, SRP<sup>+18</sup>, THKG10].  
**Levels** [BLG<sup>+13</sup>, BYM19, BH11, CKS<sup>+19</sup>, GDM<sup>+11</sup>, MC14, WHC<sup>+10</sup>].  
**Lewis** [ACDL19, SHCB16]. **Lice** [JZBP16]. **Life** [BB15, BNS<sup>+16</sup>, BCRP13, BBC14c, BHP<sup>+15</sup>, BCM<sup>+19</sup>, CKC<sup>+12</sup>, CBVF15, CSED10, CDB10, CJG13, CSD<sup>+14</sup>, DWE<sup>+19</sup>, DBHV14, DMHM<sup>+18</sup>, FH17, GA17, HMTTC12, HRB<sup>+16</sup>, HWD14, HWD<sup>+16</sup>, HS13, HCS<sup>+16</sup>, JJC12, JWHJ13, KBG<sup>+18</sup>, LDLH15, LHS<sup>+13</sup>, LMD<sup>+17</sup>, LCO<sup>+15</sup>, MSWS10, PFG19, PJ11, PHM17, PTG<sup>+10</sup>, SCC17, SBC<sup>+16</sup>, SWB<sup>+16</sup>, SCF16, SMS<sup>+12</sup>, Stu18, TB14, TKC<sup>+18</sup>, TTW<sup>+11</sup>, VBJS10, WAW11, WDW11, ZSVK13, ZKB<sup>+15</sup>, dHST13].  
**Life-History** [PJ11]. **Life-Skills** [SCF16]. **Life-Stage-Specific** [HMTTC12].  
**Lift** [RC16]. **Light** [HBS13]. **Like** [CHH<sup>+16</sup>, FHCSN12, LMPvdH18, RHEF19]. **Likelihood** [HSA<sup>+16</sup>]. **Limit** [ARC<sup>+11</sup>, AGKW12]. **Limitation** [PK11]. **Limiting** [GNMM12, JRP12].  
**Limits** [AGH18, BGOQ13, Str10]. **Limulus** [MBP<sup>+11</sup>]. **Lineage** [BRG19].  
**Lineages** [BCH<sup>+11</sup>, NHM10, SE11]. **Linear** [YJW11]. **Linking** [HBB13].  
**Lion** [KST<sup>+12</sup>]. **Lionfish** [CORM13]. **Lipid** [SF17, VSC15]. **Lipids** [HWH10]. **Lithobates** [ACK17]. **Little** [Nel14b, PDM<sup>+14</sup>, BCF<sup>+11</sup>, FRM18, Sto10]. **Littoral** [SBW14]. **Live** [LSV<sup>+13</sup>]. **Live-Release** [LSV<sup>+13</sup>]. **Lived** [HKO<sup>+18</sup>, LF15]. **Lives** [BSC<sup>+16</sup>]. **Livestock** [PPJ15]. **Load** [MKH10]. **Loads** [WM12]. **Lobster** [FRRCGA<sup>+15</sup>, HCR14]. **Local** [DZW<sup>+12</sup>, FSRK11, MFH13]. **Localized** [SA14]. **Locate** [MSH17]. **Location** [BQF<sup>+19</sup>, BWD<sup>+17</sup>, HH11, PBG<sup>+11</sup>, TL17]. **Locations** [CGB19, WB15a].  
**Loci** [HN11]. **Lock** [SDW15, SH12, YITI12]. **Lock-and-Dam** [SDW15, SH12]. **Locked** [RBK<sup>+11</sup>]. **Locomotory** [BNW<sup>+12</sup>]. **Logger** [KM10]. **Logistic** [TP11]. **Long** [AGH18, BGB<sup>+16</sup>, DSM18, GP12, HSSS16, IHTF11, KM10, KRM13, LF15, MLC13, NDC<sup>+14</sup>, NR16, OGM<sup>+15</sup>, PPJ15, RA10, SWB<sup>+16</sup>, SMH<sup>+11</sup>, VB14, WSK19, ZBHW16]. **Long-Lived** [LF15].  
**Long-Term** [AGH18, BGB<sup>+16</sup>, DSM18, GP12, HSSS16, IHTF11, KM10, KRM13, MLC13, NDC<sup>+14</sup>, NR16, OGM<sup>+15</sup>, PPJ15, RA10, SWB<sup>+16</sup>, SMH<sup>+11</sup>, VB14, WSK19, ZBHW16]. **Longfin** [NR16]. **Longitudinal** [BSM13, FRM18, PPP<sup>+13</sup>]. **Longline** [RSVAB19]. **Longlines** [GSD<sup>+12</sup>].  
**Longnose** [BSSP18, KDS18, MRB<sup>+18</sup>, SSM16]. **Loss** [DM11b, HVD<sup>+16</sup>, HRG12, Mit16, PBG<sup>+11</sup>, RH14]. **Lota** [KSB16].  
**Louisiana** [KMKS13, MKK15, RMC<sup>+17</sup>, vVO10]. **Low** [AW19, AAD14, ACB<sup>+14</sup>, BYM19, BH11, BRS<sup>+12</sup>, BW10, FDSB18, GDST16, Han11, KM10, MSWD15, SDK<sup>+10</sup>, SH12, UK14, VSBB<sup>+14</sup>, WOM14].  
**Low-Cost** [FDSB18]. **Low-Head** [BW10, SH12]. **Low-Maintenance** [KM10]. **Low-Temperature** [AAD14, UK14]. **Lower**

[HML13, HM17, REN17, RDR<sup>+</sup>10, SMN<sup>+</sup>10, BL11, BSD13, HKKS14, JSW12, JHK<sup>+</sup>19, MKH13, MWG18, RDH11, RMW16, RT14, SBDW11, SIKR17, SS15c, TKC<sup>+</sup>12, TLKT17, WSQ<sup>+</sup>15, WF11]. **Lowers** [BNC<sup>+</sup>15]. **Lumps** [GWG<sup>+</sup>19]. **Lunar** [BMM10, LKP<sup>+</sup>13].

**M** [Chr14, Ryp13, Zyd11]. **Mackenzie** [HLR<sup>+</sup>12]. **Macro** [MSB<sup>+</sup>18]. **Macro-Scale** [MSB<sup>+</sup>18]. **Macrohabitat** [BSD13]. **Macroinvertebrate** [DGMC17, SAH<sup>+</sup>14]. **Macroinvertebrates** [KMKS13]. **Macrophytes** [NTHR18, PAG11]. **Macrotidal** [DMHM<sup>+</sup>18]. **Madison** [BGW<sup>+</sup>17]. **Madtom** [MKA10]. **Magnitude** [FSC<sup>+</sup>13]. **Main** [BBS12, HPHB10, OTR<sup>+</sup>14, WSQ<sup>+</sup>15]. **Main-** [WSQ<sup>+</sup>15]. **Main-Stem** [HPHB10]. **Maine** [BJR14, Chr14, FZZ<sup>+</sup>10, GZB12, GBZ14, HCZ13, HCZG15, HKZ11, LKS<sup>+</sup>12, NCW<sup>+</sup>17, OSS<sup>+</sup>17, RSG12, SZZ10, WCZ<sup>+</sup>18, WS15, WZK<sup>+</sup>15]. **Maintained** [SFLH14]. **Maintenance** [KM10]. **Major** [BCH<sup>+</sup>11, CPP<sup>+</sup>14]. **Male** [BVA11, JJC12, KMS<sup>+</sup>18, LBC10, SKP<sup>+</sup>10]. **Males** [ARC<sup>+</sup>13, MGK<sup>+</sup>18, PWP13]. **Managed** [GP12]. **Management** [ARL<sup>+</sup>12, BLCB13, DPB13, DKS18, DCBKR14, HP13, LFB<sup>+</sup>15, LPM<sup>+</sup>17, MPHG10, Mil19, Nel14a, SDSB18, SM13b, ZTC12, Smi13]. **Managing** [ACMM<sup>+</sup>15]. **Manganese** [TL15]. **Manistee** [BHK<sup>+</sup>10, DHA<sup>+</sup>17, DG13]. **Many** [SR10, SS13, WB15b]. **Mapping** [PSH<sup>+</sup>19]. **Margin** [GRS12]. **Marine** [AJFO10, AJF10, BNTT17, CKFQ11, DGMC17, GCG<sup>+</sup>18, GA17, GWG<sup>+</sup>19, HMT12, HWH10, MBT10, MOS13, PGR13, QSJ12, Qui16, SHP<sup>+</sup>19, TB14, Wei10, Yas16]. **Marine-Derived** [HWH10]. **Mark** [Eva17, HLB<sup>+</sup>16, HRG12, MK16, PGWS15]. **Marked** [DMHO12, RGM<sup>+</sup>11]. **Marker** [AIC13]. **Markers** [CVL<sup>+</sup>19, EBF<sup>+</sup>14, NZF<sup>+</sup>11, PDSP<sup>+</sup>11, STS<sup>+</sup>14, TL14]. **Marking** [BQF<sup>+</sup>19, Chi13, HB17]. **Marks** [SSH11b]. **Marlin** [Goo15]. **Marlins** [RBE<sup>+</sup>10]. **Marsh** [BT16, JPRS10, MBH16, RC16]. **Maryland** [Chi13, Chr14, LDA<sup>+</sup>13, Nel14a, Qui16, Ryp13, Zyd11, AS17]. **Mass** [PPH15]. **Mass-** [PPH15]. **Massachusetts** [HCD<sup>+</sup>14, DCBKR14, KHD<sup>+</sup>14, RRG<sup>+</sup>17]. **Match** [FH17]. **Matching** [SBC17]. **Material** [IBH12]. **Materials** [BHC<sup>+</sup>13]. **Maternal** [BBC14c, SSH11b]. **Mating** [BSS18, OSDT18]. **Matrix** [KRM13, SR10]. **Matter** [JPH17, VSBC13]. **Matthew** [Chi13]. **Maturation** [BS16, LBC10, MGK<sup>+</sup>18, OWN11]. **Maturing** [FPM15, PM14]. **Maturity** [CFHE11, Con17, CGDL18, DL13, HNK<sup>+</sup>12, OWS16, OWP13, PM14, RMC<sup>+</sup>17, TRMC15]. **Maximum** [Goo15, HSA<sup>+</sup>16, Hoe17, PBC12, Smi13]. **May** [DWE<sup>+</sup>19, MDT10, MVP15]. **McClatchie** [Pet15]. **McCloud** [SLM10]. **McKenzie** [Chi13]. **Mead** [DSAM12]. **Mean** [HGP<sup>+</sup>17, TB16]. **Means** [PM19]. **Measurements** [HH11]. **Measures** [CEM<sup>+</sup>19, PMN19, WCYH18]. **Measuring** [Eva17]. **Mechanism** [NJ12]. **Mechanisms** [BMR<sup>+</sup>12, HM17, LRM<sup>+</sup>10]. **Mediated** [DBHV14]. **Mediates** [SS15b]. **Melting** [MSW<sup>+</sup>10]. **members** [Chi13, Chr14, LDA<sup>+</sup>13, Nel14a, Ryp13, Zyd11]. **Memorandum** [Yas16].

**Menhaden** [ASJ15, ASJ16, ASJ17, AS17, HWHF14, SMJ14, SWB<sup>+</sup>16].  
**Menippe** [CGDL18, RMC<sup>+</sup>17]. **mercenaria** [CGDL18]. **Mercury**  
 [Ada18, FWD10, HNV<sup>+</sup>18, SARC13, TA12, WNCF10]. **Mesa** [Chi13].  
**Mesohabitat** [TCBI11]. **Metabolism** [CJM<sup>+</sup>15]. **Metamorphosis**  
 [ACK17, SJ14]. **Metapopulation** [PF11b]. **Metapopulations** [BCH<sup>+</sup>11].  
**Method**  
 [DMCO11, DJ17, GKBG12, JPRS10, LV14, MH11, NYCC19, PSM12, Poe14].  
**Methods** [DEP<sup>+</sup>18, MSD18, MVK12, Poe14, PMN19, RMDA11, SC13].  
**Methylmercury** [HSG10]. **Metrics** [MRPW19, WCN<sup>+</sup>19, vS10]. **Mexico**  
 [DF14, GP12, AKM12, BB15, BAYS16, BCMPDSZ10, CABNQ<sup>+</sup>13, CGDL18,  
 DSBS14, DSB<sup>+</sup>18, FWSW<sup>+</sup>15, GGP<sup>+</sup>15, GCA<sup>+</sup>18, GSD<sup>+</sup>12, HPG10,  
 JPHK10, JPLS13, MBEvdB<sup>+</sup>10, MBPP18, MS12, MHPB14, PS14, PDH<sup>+</sup>18,  
 RCM<sup>+</sup>19, RMMGPB16, RSVAB19, SFB16, SGP16, SS11, SAW<sup>+</sup>17,  
 SMMK12, SCB15, TRHHOGSJ14, TA12]. **Michael** [Shi13]. **Michigan**  
 [CBMR14, HSE<sup>+</sup>12, BR11, BMR<sup>+</sup>12, BHK<sup>+</sup>10, DG13, DHA<sup>+</sup>17, EBA<sup>+</sup>19,  
 ERL15, GRDO13, JMB<sup>+</sup>13, JRBC13, KGC<sup>+</sup>12, KRM11, KRM13, MBG10,  
 MD11, MLBS<sup>+</sup>13, NAW12, PB16, PM10, RCD<sup>+</sup>11, TJB<sup>+</sup>14, WDW11].  
**Micro** [LBD<sup>+</sup>16, SHH<sup>+</sup>19]. **Micro-acoustic** [SHH<sup>+</sup>19]. **Microacoustic**  
 [FMS10]. **Microchemical** [BFK15, FDWG13, GNV<sup>+</sup>14]. **Microchemistry**  
 [CBM<sup>+</sup>13, HPHB10, SWH<sup>+</sup>17, VBJS10]. **Microhabitat** [FJP18].  
**Microsatellite** [BCP<sup>+</sup>11, FSN<sup>+</sup>13, KHHG13, MGP11, WMW<sup>+</sup>12].  
**Microsatellites** [BWDM11, GSVS<sup>+</sup>10]. **Microscale** [HT13].  
**Microstructure** [VBJS10]. **Microtrolling** [DJ17]. **Mid** [MGWP10, RJ11].  
**Mid-Atlantic** [RJ11]. **Mid-Columbia** [MGWP10]. **Midcoastal** [FBS<sup>+</sup>14].  
**Midcontinent** [PAB<sup>+</sup>11]. **Middle** [BH11, PTG<sup>+</sup>10]. **Midwest** [GSVS<sup>+</sup>10].  
**Midwestern** [KCS<sup>+</sup>19]. **Migrant** [RSB14]. **Migrating**  
 [CKS<sup>+</sup>19, CJL<sup>+</sup>14, DEP<sup>+</sup>18, HCW14, HKZ11, MGWP10, MJH17, SHP<sup>+</sup>19].  
**Migration** [BHC<sup>+</sup>18, BBC<sup>+</sup>14a, BWD<sup>+</sup>17, CZK<sup>+</sup>17, CHMG<sup>+</sup>18, CTS<sup>+</sup>15,  
 CVB14, CNM<sup>+</sup>18, DHRQ10, FP19, GDST16, GA17, HJM<sup>+</sup>12, HT13, HSS17,  
 HER<sup>+</sup>11, LUC<sup>+</sup>15, MPHG10, MJS<sup>+</sup>19, MSS<sup>+</sup>11, MJGV14, MR11, OS11,  
 PM14, PPP<sup>+</sup>13, PGR13, RHR<sup>+</sup>15, RKF<sup>+</sup>13, RBH<sup>+</sup>12, RRG<sup>+</sup>17, SZGS12,  
 SHM<sup>+</sup>12, SDBB12, SSH<sup>+</sup>11a, SHR<sup>+</sup>12, SH12, Str10, Str12, TTW<sup>+</sup>11,  
 VCP<sup>+</sup>14, WZC<sup>+</sup>14, WAD<sup>+</sup>17, WL13, ZKH12, Qui16]. **Migrations**  
 [AHS<sup>+</sup>11b, HBA<sup>+</sup>15, TBTS12, VHPP19]. **Migratory**  
 [BMM10, CEFQ11, CBM<sup>+</sup>13, HLR<sup>+</sup>12, PMF<sup>+</sup>10, RH14, SWH<sup>+</sup>17, SDW15,  
 SZZ10, TKC<sup>+</sup>18, WBR11, WMW<sup>+</sup>12]. **Minas** [WMW<sup>+</sup>12]. **Miniature**  
 [KM10]. **Minijack** [HLB14, JJC12, SLG<sup>+</sup>14]. **Minimum**  
 [AGH18, JLV<sup>+</sup>10, UK14, SPCJ11]. **Minnesota**  
 [SCW<sup>+</sup>13, AMM<sup>+</sup>16, BS15, DH11, FJJ<sup>+</sup>12, MMY12, PCC<sup>+</sup>13]. **Minnnow**  
 [AS12, Arc16, BYM19, BMB<sup>+</sup>10, DSRA12, FBF10, HKO<sup>+</sup>18, OMA13,  
 SRMB<sup>+</sup>14]. **Misgurnus** [KU12, UK14]. **Missing** [PVJH15]. **Mississippi**  
 [BH11, HKKS14, JHK<sup>+</sup>19, KMM<sup>+</sup>11, MKH13, PTG<sup>+</sup>10, SS13, AM13,  
 BSSM12, DF12, DLHF16, KBO<sup>+</sup>12, SWP<sup>+</sup>18]. **Missouri**  
 [ACRA10, EBF<sup>+</sup>14, RDH11, Mic10, MS13, SM13a]. **Mistassini** [HNK<sup>+</sup>12].



**Mitigation** [WRQH17]. **Mitochondrial** [CKM<sup>+11</sup>, CMM<sup>+17</sup>, HOWS10, LYX<sup>+10</sup>, MSBT10, Whi12, WMW<sup>+12</sup>]. **Mittelbach** [HCD<sup>+14</sup>]. **Mixed** [AHS11a, FSN<sup>+13</sup>, IWB<sup>+13</sup>, MM10, WBR11]. **Mixed-Stock** [AHS11a, FSN<sup>+13</sup>, MM10, WBR11]. **Mixing** [BAZ12]. **Mixture** [BEMF11, HRG12, SL16]. **mm** [CHR<sup>+17</sup>]. **Moapa** [DM11b]. **Mobility** [BFH14]. **Model** [BMB<sup>+10</sup>, BRG19, BEMF11, BZ12, Dud19, HBB13, HGS<sup>+16</sup>, HBHS15, JPFB13, MDP12, MWC<sup>+13</sup>, MWT14, NAW12, PPH15, RAB<sup>+18</sup>, SR10, SARC13, SDBB12, TFM<sup>+18</sup>, UNTA10, WRP<sup>+12</sup>, YJW11, ZLHS10, vPWT12, RKEB13a]. **Modeled** [JPLS13, MRPW19, RHW15]. **Modeling** [AFHF12, DF12, GGC17, Goo19, HS17, HLK11, JBV13, KWS14, KR18, KRM13, MPHG10, MAH<sup>+12</sup>, PCT<sup>+12</sup>, PSB16, RKEB13a, RKEB13b, SJ11, SDSB18, UWL12b]. **Models** [CBSB15, FSJ<sup>+11</sup>, HHJH17, HD16, IWB<sup>+13</sup>, JPH17, KCM14, MBM10, MLS<sup>+13</sup>, PM13, PM15, PVJH15, PHFN17, RPSB14, SL16, WDDS13, WB15a, WR14, WBH10, WTB10]. **Modes** [CW11]. **Modified** [CBW<sup>+16</sup>, MAN<sup>+12</sup>, MCP<sup>+15</sup>]. **Mohave** [ESD<sup>+17</sup>]. **Molecular** [BRG19, CCL<sup>+19</sup>, CEM<sup>+19</sup>, ESD<sup>+17</sup>, LSD<sup>+14</sup>, MCD17]. **Momma** [SSH11b]. **Monitoring** [CVL<sup>+19</sup>, Cha13, LPM<sup>+17</sup>, MNS<sup>+19</sup>, NDP16, RRA<sup>+15</sup>, SFF14, SJFF15, WAD<sup>+17</sup>, ZC13]. **Monkfish** [RMDA11]. **Montana** [SMY11, BGW<sup>+17</sup>, DMW<sup>+19</sup>, EPS<sup>+15</sup>, PDP12, PPC13, PPMJ14, PPW<sup>+14</sup>, PPJ15]. **Montane** [BZ12, BAZ12, CM10]. **Moon** [SHR<sup>+12</sup>]. **Morbidity** [TLM<sup>+19</sup>]. **Morice** [WAKH12]. **Morphological** [GWOD18, JHK<sup>+19</sup>, KHK<sup>+15</sup>, LMD<sup>+17</sup>, MWG18]. **Morphologically** [GGP<sup>+15</sup>]. **Morphology** [Ano11a, LSSYL10, MBEvdB<sup>+10</sup>, ODG<sup>+11</sup>, PTPS10, RB18, TC11]. **Morphometric** [GLM<sup>+15</sup>, HDH16]. **Morphometrics** [CBVF15]. **Morphotypes** [CHT13, CPP<sup>+14</sup>, GSJS17, HNK<sup>+12</sup>, KWS14]. **Mortal** [BCG<sup>+12</sup>]. **Mortality** [BC12, BMH19, BNTT17, BNC<sup>+15</sup>, BRK<sup>+18</sup>, BMR<sup>+12</sup>, CR10, CFHE11, CGA13, ETC18, FBJR11, FSC<sup>+13</sup>, FBH<sup>+13</sup>, GCG<sup>+18</sup>, HBC15, Hoe17, HGP<sup>+17</sup>, JPHK10, KAH16, KR18, KRM11, LAR16, LBD<sup>+16</sup>, MPHG10, MBP<sup>+11</sup>, PGWS15, PM10, PA10, RJWK10, SZGS12, SPR<sup>+16</sup>, THGA15, TB14, TPLA16, TP11, TS13, TLM<sup>+19</sup>, WM12, WF19, YHWH10, ZM10, dHST13]. **Motupiko** [YHWH10]. **Mount** [RNG<sup>+13</sup>]. **Mountain** [BGW<sup>+17</sup>, BCR13, FK18, FKF<sup>+19a</sup>, FKF<sup>+19b</sup>, PDP12, WK13, AUDL18, BEWM10, EBMV10]. **Mountains** [ACWIK13, BSGB17, BGLP19]. **Mouth** [BR11, JRBC13, RSL11]. **Movement** [BAHP11, BFH14, BSD13, CR10, CTPM13, CNM<sup>+18</sup>, DPB13, DAA<sup>+16</sup>, DF14, EBG18, FWB<sup>+15</sup>, FP19, HGBE16, HUMG<sup>+18</sup>, JCK<sup>+12</sup>, JPMS12, KHD<sup>+14</sup>, KBO<sup>+12</sup>, LAR16, LEM<sup>+11</sup>, LRW13, MCW<sup>+14</sup>, MBPA13, MBH16, MWKS13, NCW<sup>+17</sup>, PKL<sup>+11</sup>, PHHM12, RKF<sup>+13</sup>, SCW<sup>+13</sup>, TKC<sup>+12</sup>, TCBI11, WR14, WCN<sup>+19</sup>, WAR12, WSK11, YHWH10, ZBW10]. **Movements** [BP13, BW10, CHH<sup>+16</sup>, CGM15, CKFQ11, DK18, DCM10, EB16, FZZ<sup>+10</sup>, FFYI16, FH17, GBZ14, PBW16, PPW<sup>+14</sup>, PS14, REN17,

SBW14, SIKR17, WZCT12]. **Moving** [GKBG12]. **MS** [BLG<sup>+</sup>13, PET<sup>+</sup>17]. **MS-222** [BLG<sup>+</sup>13, PET<sup>+</sup>17]. **mtDNA** [MBEvdB<sup>+</sup>10]. **Much** [GNV<sup>+</sup>14]. **Mudminnow** [KO16]. **Multi** [KP14]. **Multi-Scaled** [KP14]. **Multibeam** [DMR<sup>+</sup>10]. **Multimethod** [PVJH15]. **Multimetric** [IB14, PAB<sup>+</sup>11, vS10]. **Multiple** [BW10, CW11, CHT13, FPM13, FQW<sup>+</sup>10, HMW19, MBH16, MBL12, PPF<sup>+</sup>16, PF11a, Poe14, SHM<sup>+</sup>12, SR15, WHC<sup>+</sup>10]. **Multiple-Season** [PF11a]. **Multiscale** [EPS<sup>+</sup>15, MSK15, PTWK11, RB12]. **Multispecies** [CYW<sup>+</sup>19, PSB16, SL16]. **Multistage** [PMN19]. **Multistate** [HLK11, PCT<sup>+</sup>12]. **Multivariate** [MAK12]. **Multiyear** [dHST13]. **Musick** [Shi13]. **Muskegon** [SWS10]. **Muskellunge** [KSF13, MMY12, SHC<sup>+</sup>16, WEW12, WLLCF16, WKC18, WLW16]. **Mussel** [WBW<sup>+</sup>13]. **Mussels** [KS11, MBG10]. **Mutagenic** [VSB<sup>+</sup>14]. **mykiss** [BCRP13, BBC14c, BCH<sup>+</sup>11, BWRA16, HBTT11, NZF<sup>+</sup>11, SMS<sup>+</sup>12, TRLG13, WBM<sup>+</sup>17]. **Mysis** [AHS<sup>+</sup>11b, PB16]. **Myxobolus** [FWB<sup>+</sup>15, KKB<sup>+</sup>10, PDP12].

**N** [VSBC13]. **Naivety** [HVD<sup>+</sup>16]. **Namakan** [SCW<sup>+</sup>13]. **Natal** [BFK15, BQF<sup>+</sup>19, SBC17, TL14, WCMP13, ZSVK13]. **National** [BCS19, MDD<sup>+</sup>16, SGK16, Yas16]. **Native** [ABM17, BDTD17, BFB<sup>+</sup>18, BB10a, BHD<sup>+</sup>16, BRG19, BGOQ13, CKM<sup>+</sup>11, DWGF11, DW15, DWN<sup>+</sup>15, ER18, FBWT19, GP12, HBC15, HB18, HUSST19, JKP10, JBV13, KRRW18, LRH12, LYX<sup>+</sup>10, MSB<sup>+</sup>18, MMY12, SRMB<sup>+</sup>14, SMY11, SPR<sup>+</sup>16, SBDW11, Sto10, SGK16, TD13, WB15a, WDHW14, WCD<sup>+</sup>11, WLW16]. **Natives** [BB10a]. **Natural** [Ano11a, BEWM10, BGV11, CCH15, CWP<sup>+</sup>19, DML<sup>+</sup>10, DSB<sup>+</sup>18, EBMV10, FPM15, FS16, HBC15, HAR18, Hoe17, HSE<sup>+</sup>12, LHS<sup>+</sup>13, Lis14, Lis15, LDA<sup>+</sup>13, MSD<sup>+</sup>19, MSP12, RB12, SAW<sup>+</sup>17, TNOU11, TP11, TC11, TW14, TS13, dHST13]. **Natural-Channel-Design** [BEWM10, EBMV10]. **Natural-Origin** [CWP<sup>+</sup>19, DML<sup>+</sup>10, LHS<sup>+</sup>13]. **Naturalized** [JKP10, MM17]. **Naturally** [JSW<sup>+</sup>15, KBO<sup>+</sup>12, SVKK18]. **Nature** [CHH<sup>+</sup>16, FHCSN12, LMPvdH18, RHEF19]. **Nature-Like** [CHH<sup>+</sup>16, FHCSN12, LMPvdH18, RHEF19]. **Near** [BSCA17, SFB16, MCH<sup>+</sup>13, YSC10]. **Near-Coastal** [SFB16]. **Nearby** [QHS<sup>+</sup>13]. **Nearshore** [DBS<sup>+</sup>10, JRBC13, RMC<sup>+</sup>17, TBL<sup>+</sup>17]. **Need** [TBC<sup>+</sup>13]. **Needed** [GNV<sup>+</sup>14, KMKS13, SR10]. **Needs** [PTG<sup>+</sup>10]. **Negative** [IWB<sup>+</sup>13]. **Nekton** [FSP<sup>+</sup>17, JPRS10, RC16]. **Neotropical** [CBM<sup>+</sup>13, Var13]. **nerka** [WAW11]. **Nest** [LS10b, SAS17]. **Nesting** [ARC<sup>+</sup>13, PWP13]. **Net** [BHC<sup>+</sup>18, HGS<sup>+</sup>16, PTPS10, Sto10, SL16]. **Nets** [PNMH<sup>+</sup>12, RC16]. **Network** [ERL15, MLS<sup>+</sup>13]. **Neutral** [KHK<sup>+</sup>15, PDSP<sup>+</sup>11, PBC12, WKS<sup>+</sup>19]. **Neutrally** [JBC<sup>+</sup>12]. **Nevada** [BRGR10, DSAM12, ESD<sup>+</sup>17, PPW<sup>+</sup>14]. **Next** [LFB<sup>+</sup>15]. **Next-Generation** [LFB<sup>+</sup>15]. **Niche** [FRBA13, FRA13, JK17, RB18, WB15a, WB15b]. **Niches** [DWE<sup>+</sup>18]. **Nile** [HAR18, VSB<sup>+</sup>14]. **Ninespine** [MBG10]. **Nitrogen** [QSJ12]. **Nitrophenol** [CHB<sup>+</sup>12]. **NMFS** [Yas16]. **NMFS-F** [Yas16]. **NMFS-F/SPO-125** [Yas16].

**No** [TLKT17]. **NOAA** [Yas16]. **Nonequilibrium** [HGP<sup>+</sup>17]. **Nongame** [MK10, WK13]. **Nonindigenous** [Gre12, HHES13]. **Nonlethal** [CCL<sup>+</sup>19, HOGO10, MSD18]. **Nonlethally** [DJ17]. **Nonmigrant** [MH11]. **Nonnatal** [DF11]. **Nonnative** [BB10a, BHD<sup>+</sup>16, BR14, CYP11, DWN<sup>+</sup>15, ESD<sup>+</sup>17, GP12, HBB17, HRHS16, HMW19, HGSG17, HWN15, JBV13, KRRW18, KSB16, MWG18, NB13, OMA13, SRMB<sup>+</sup>14, SMY11, SDOK19, SPR<sup>+</sup>16, SGK16, WB15a, WDHW14, vZNW12]. **Nonneutral** [PDSP<sup>+</sup>11]. **Nonsalmonid** [LMPvdH18]. **Nontidal** [DK18]. **Nonvisual** [DA12]. **North** [BDTD17, BB10b, CTG14, GN13, Gid14, LKP<sup>+</sup>13, NG13, NAWM14, SH12, SFH15, Wei10, ACDL19, AMBM12, BJA<sup>+</sup>13, BWDM11, BRA14, CEM<sup>+</sup>19, DDMR10, DK18, FBH<sup>+</sup>13, GMB<sup>+</sup>19, HARL18, HKO<sup>+</sup>18, JPHK10, MWT14, MBPP18, PSGB13, PDH<sup>+</sup>18, RB12, RH14, RBE<sup>+</sup>10, RLL<sup>+</sup>19, SHCB16, SDW17b, THNG14, WBW<sup>+</sup>13]. **North-Central** [JPHK10, MBPP18, PDH<sup>+</sup>18, SDW17b]. **Northeast** [Yas16, DHB15]. **Northeastern** [MAS10]. **Northern** [ACK17, CZK<sup>+</sup>17, CKS<sup>+</sup>19, FSP<sup>+</sup>17, GRS12, GIW<sup>+</sup>13, KGC<sup>+</sup>12, KBG<sup>+</sup>18, LDLH15, LN18, OI16, PTPS10, PCC<sup>+</sup>13, SHC<sup>+</sup>16, WCD<sup>+</sup>11, ZBHW16, CHH<sup>+</sup>16, GRDO13, GGP<sup>+</sup>15, GCA<sup>+</sup>18, GSJS17, GSD<sup>+</sup>12, HPG10, JKP10, JMM<sup>+</sup>11, MSD<sup>+</sup>19, MS12, PS14, RCM<sup>+</sup>19, SS18a, SFB16, SGP16, SS11, SCB15, WSI14]. **Northern-Strain** [WCD<sup>+</sup>11]. **Northumberland** [HCR14]. **Northwest** [DG19, FJP18, JZBP16]. **Northwestern** [BJC12, ILH<sup>+</sup>18, MBG<sup>+</sup>11]. **Notes** [CTG14]. **Novel** [CBW<sup>+</sup>16, DPS14, EBF<sup>+</sup>14, GS16, MSW<sup>+</sup>10, WCN<sup>+</sup>19, WB15b]. **Nuclear** [WMG<sup>+</sup>14]. **Nucleotide** [CHS<sup>+</sup>11, EBF<sup>+</sup>14, GMP<sup>+</sup>11, HSM<sup>+</sup>10, LFB<sup>+</sup>15, MSW<sup>+</sup>10, NB13, STS<sup>+</sup>14, SSH<sup>+</sup>11a, AHS11a, CVL<sup>+</sup>19, HN11]. **Number** [BSS18, DBB<sup>+</sup>12, GDG<sup>+</sup>15, JCS14, JHK<sup>+</sup>19, MSS<sup>+</sup>17]. **Numerical** [HD16]. **Nurseries** [BFK15]. **Nursery** [ASJ16, ASJ17, DGM17, EBG18, MNS<sup>+</sup>19, WCZT11]. **Nushagak** [KQ11]. **Nutrient** [CS16, KPZ<sup>+</sup>12, WM12]. **Nutritional** [SPH19].

**O** [GDPW10]. **Oahe** [WBD14]. **Oakland** [Gid14]. **Objectively** [GBB<sup>+</sup>14]. **Observation** [FBP11]. **Observations** [FSFS17, HL10, JPH17, KST<sup>+</sup>12, MNS<sup>+</sup>19, MR11, WvPC12]. **Observed** [DMR<sup>+</sup>10, SMMK12]. **Obstacles** [SHR<sup>+</sup>12]. **Occupancy** [AFHF12, GBF12, JSW12, KO16, PSB16, PVJH15, QHS<sup>+</sup>13, RG15, RG16, SMMK12, WDDS13]. **Occurrence** [DW15, KLR<sup>+</sup>15, MWT14, PDP12]. **Occurrences** [PVJH15]. **Occurring** [Han11, KBO<sup>+</sup>12]. **Ocean** [BNS<sup>+</sup>16, BCM<sup>+</sup>19, CNM<sup>+</sup>18, FWT<sup>+</sup>14, Lev18, Qui19, SMO<sup>+</sup>14, SCC17, TTW<sup>+</sup>11, AKM12, AMBM12, CTG14, DG19, GMP<sup>+</sup>11, GN13, JZBP16, NG13, NAWM14, RBE<sup>+</sup>10]. **Oceanic** [BA13]. **Oceanography** [Pet15]. **Oceans** [RBE<sup>+</sup>10]. **Odd** [IMO<sup>+</sup>14]. **Odd-Year** [IMO<sup>+</sup>14]. **Odor** [SJGL16, SFF<sup>+</sup>10]. **off** [FRRCGA<sup>+</sup>15, KSSK<sup>+</sup>17, QSVD11]. **Offer** [TRW10]. **Offers** [JZS<sup>+</sup>19]. **Office** [Yas16]. **Offs** [BGV11, KRRW18]. **Offshore** [Ada18, DBS<sup>+</sup>10, KBG<sup>+</sup>18, PDSP<sup>+</sup>11, RA10]. **Offspring**

[BVA11, BBC14c, CGB19]. **Ogeechee** [JPFB13]. **Ohio** [PZS17, WKC18]. **Oil** [RMC<sup>+</sup>17, RCM<sup>+</sup>19, SFB16]. **Old** [RCD<sup>+</sup>11]. **Olfactory** [HDQ<sup>+</sup>17]. **Oligohaline** [SGB13]. **Olympic** [KO16]. **Omission** [Con17]. **Omnivorous** [CS16]. **Oncorhynchus** [BCRP13, BBC14c, BCH<sup>+</sup>11, BWRA16, HBTT11, NZF<sup>+</sup>11, SPM<sup>+</sup>17, SMS<sup>+</sup>12, TRLG13, WAW11, WBM<sup>+</sup>17]. **Oneida** [DCJ<sup>+</sup>13, VFB<sup>+</sup>16]. **Ontario** [BMM10, Esh14, FBB<sup>+</sup>13, GCM12, MCO<sup>+</sup>10, SCW<sup>+</sup>13, ZZMC13].

**Ontogenetic** [DBS<sup>+</sup>10, HSSS16, Han11, LS16, MHF12, RGP17, RL19, SDBB12].

**Ontogeny** [LB15, SCB15]. **Operating** [BSCA17]. **Operational** [KVA<sup>+</sup>19]. **Operations** [PBB<sup>+</sup>15]. **Opercular** [BBF<sup>+</sup>18]. **Optimal** [DBB<sup>+</sup>12, HP14]. **Options** [TBC<sup>+</sup>13]. **Order** [Poe14]. **Oregon** [AGJ11, BHD<sup>+</sup>16, BCF<sup>+</sup>11, DSRA12, FBS<sup>+</sup>14, HGBE16, KBC<sup>+</sup>18, MSW<sup>+</sup>14, MFR15, RSL11, VBJS10]. **Organic** [JAA<sup>+</sup>13]. **Oriental** [KU12, UK14]. **Orientation** [RFM<sup>+</sup>15].

**Origin** [BAKT12, BRK<sup>+</sup>18, BBG<sup>+</sup>18, CCH15, CWP<sup>+</sup>19, DF11, DML<sup>+</sup>10, HSF12, HSA<sup>+</sup>16, LHS<sup>+</sup>13, Lis14, Lis15, MSWS10, MM10, OWP<sup>+</sup>17, RGM<sup>+</sup>11, RT14, SSH11b, SBC17, TL14, WM12, WHP14, WMW<sup>+</sup>12, ZSVK13]. **Origins** [CPS<sup>+</sup>15, SYH<sup>+</sup>15]. **Ornamental** [HLH14, HTH<sup>+</sup>17]. **Oscillations** [MJS<sup>+</sup>19]. **Osmoregulatory** [ZZD10]. **Other** [PFG19, AJF10, PTPS10, RBE<sup>+</sup>10]. **Otolith** [ASJ15, BBG<sup>+</sup>18, CBVF15, CC16, CBM<sup>+</sup>13, DMHO12, FDWG13, HS17, HLR<sup>+</sup>12, HPHB10, LS10a, NW14, PBW16, RMMGPB16, SMJ14, SYH<sup>+</sup>15, SBC17, TL14, VBJS10, ZSVK13]. **Otoliths** [BFK15, BSM13, BSR12, BSSP18, GDPW10, GNV<sup>+</sup>14, LS16, LS18, TL15]. **Otter** [BMC<sup>+</sup>13]. **Out-Migrant** [RSB14]. **Out-Migrating** [MGWP10]. **Out-Migration** [CNM<sup>+</sup>18, FP19, HER<sup>+</sup>11]. **Outbreeding** [DSHG10]. **Outcome** [CW11]. **Outcomes** [SDOK19]. **Ovary** [PSM12]. **Overdispersion** [MK16]. **Overestimates** [JHK<sup>+</sup>19]. **Overestimation** [HD16]. **Overexploitation** [ZHWR11]. **Overfishing** [BHG<sup>+</sup>10, Lev18]. **Overlap** [FRBA13, MLBS<sup>+</sup>13, SRMB<sup>+</sup>14, WCZT11]. **Overlapping** [SR15]. **Overriding** [Sto10]. **Oversummer** [GNMM12, OPHD18]. **Overwinter** [FBJR11, Mic10, PM10, SW11, TFM<sup>+</sup>18]. **Overwintering** [Bel12, BDM<sup>+</sup>10, UWL12a]. **Ovigerous** [DDMR10]. **Owens** [FPM13, GLM<sup>+</sup>15]. **Oxbow** [DM11a]. **Oxygen** [AS12, AW19, GWB<sup>+</sup>15, KM10, SSS<sup>+</sup>12]. **Oxytetracycline** [DMHO12]. **Oxytetracycline-Marked** [DMHO12]. **Oyster** [DHB15, PE14].

**Pacific** [AMBM12, CTG14, FJP18, AGH18, CN11, CORM13, DJ17, DHB15, EB16, FBWZ19, GMP<sup>+</sup>11, HB17, JCK<sup>+</sup>12, JSW12, KST<sup>+</sup>12, KCM14, KCJ<sup>+</sup>15, LB15, MHF12, MSW<sup>+</sup>14, MCC<sup>+</sup>12, MCT17, MOS13, PKPS11, Qui19, RG15, RG16, SNP<sup>+</sup>10, SS15a, SS18b, Spi12, WCYH18, WBD17, YSW<sup>+</sup>14, ZSVK13]. **Paddlefish** [PGW<sup>+</sup>11, PGWS15]. **Paddlefishat** [SDW15]. **pages**

[Ber13, Cha13, Chi13, Chr14, Fle16, HCD<sup>+</sup>14, LDA<sup>+</sup>13, Nel14a, Pet15, Pra14, Qui16, Ryp13, Shi13, Smi13, Var13, Yas16, Zyd11]. **Pain** [AGH18]. **Paiute** [SPM<sup>+</sup>17]. **Pallid** [BH11, EBF<sup>+</sup>14, HKKS14, JHK<sup>+</sup>19, KBO<sup>+</sup>12, PTG<sup>+</sup>10]. **Pamunkey** [KHW<sup>+</sup>14]. **Panel** [LFB<sup>+</sup>15]. **paper** [Chr14, HCD<sup>+</sup>14, LDA<sup>+</sup>13]. **Paradigm** [MJS<sup>+</sup>19]. **Parahucho** [FSRK11]. **Parameters** [PPH15, PM15, SH10, UWL12b]. **Parasite** [CRC<sup>+</sup>16, PM10, SPCJ11]. **Parasite-Induced** [PM10]. **Parasitism** [FSW10]. **Parentage** [HSA<sup>+</sup>16]. **Parentage-Based** [HSA<sup>+</sup>16]. **Parental** [BQF<sup>+</sup>19, JRP12, NMH12, OWP13, TM19]. **Parents** [JSW<sup>+</sup>15]. **Park** [MDD<sup>+</sup>16, SGK16]. **Parr** [CT12, FJP18, JJC12, KRM11, KRM13, VSC15]. **Parr-to-Smolt** [CT12]. **Parrish** [Ryp13]. **Parsons** [Chi13]. **Part** [PF11b]. **Partial** [OS11, RKF<sup>+</sup>13]. **Partially** [BBC14c, GP12]. **Partitioning** [MKK15]. **parvum** [VFFP13]. **Pass** [HKR18, PF11a]. **Passage** [BMB<sup>+</sup>10, BDBE11, BCG<sup>+</sup>12, EWSR16, FBWZ19, FHCSN12, LMPvdH18, PBC12, RHEF19, SDW15, WCZ<sup>+</sup>18, YITI12]. **Passing** [BSCA17]. **Passive** [CHR<sup>+</sup>17, Cla16, DM11b, EHR<sup>+</sup>12, EPT<sup>+</sup>16, HB17, HLK11, SDW<sup>+</sup>17a, SFF14, SJFF15, Cha13, ELC13, MCC<sup>+</sup>12]. **Past** [MSP12, NB13]. **Patagonia** [JMM<sup>+</sup>11, JBV13]. **Patagonian** [OS11]. **Path** [ILH<sup>+</sup>18]. **Pathogen** [BNC<sup>+</sup>15, HER<sup>+</sup>11]. **Pathogen-Associated** [BNC<sup>+</sup>15]. **Pathogen-Free** [BNC<sup>+</sup>15]. **Pathogens** [RPSB14]. **Pathway** [HJM<sup>+</sup>12]. **Pathways** [BBC<sup>+</sup>14a, HBA<sup>+</sup>15]. **Pattern** [HGBE16]. **Patterns** [BFH14, BA13, BLB<sup>+</sup>13, CBAC19, DHRQ10, EBG18, EPR<sup>+</sup>18, FDWG13, FPR<sup>+</sup>18, FWT<sup>+</sup>14, FBS<sup>+</sup>14, FRM18, GPBA18, JMB<sup>+</sup>13, JJC12, KBG<sup>+</sup>18, KHD<sup>+</sup>14, LAR16, MSW<sup>+</sup>14, MBPA13, MBH12, MVP15, MBBM10, NCW<sup>+</sup>17, PET<sup>+</sup>17, RG16, RKF<sup>+</sup>13, RRG<sup>+</sup>17, RO16, SMM13, SSH<sup>+</sup>11a, SMS<sup>+</sup>12, SJFF15, SMMK12, UACS<sup>+</sup>19, VCP<sup>+</sup>14, WMV<sup>+</sup>16, WSQ<sup>+</sup>15, WB13b, WSK11]. **Paul** [Ber13]. **Peacock** [BN16]. **Pectoral** [BSR12, BSSP18]. **Pedigree** [HBS12, HCNL10]. **Pelagia** [AHS<sup>+</sup>11b]. **Pelagic** [BGB<sup>+</sup>16, EB16, FSP<sup>+</sup>17, GRDO13, OSS<sup>+</sup>17, SGP16, SBW14]. **Pellets** [WHC<sup>+</sup>10]. **Peninsula** [TRHHOGSJ14]. **Pennsylvania** [BBAK19, BMP<sup>+</sup>17, KRRW18, SDW17b]. **Penobscot** [SZZ10, FZZ<sup>+</sup>10, GBZ14, HKZ11, OSS<sup>+</sup>17, RSG12, WCZ<sup>+</sup>18]. **Percent** [BRK<sup>+</sup>18]. **Perceptions** [WCYH18]. **Perch** [AGKH17, BPS11, BDS10, BRA14, CM11a, FRBA13, FRA13, GMP<sup>+</sup>11, GSVS<sup>+</sup>10, IHTF11, JRBC13, KGW14, LSPB11, MCSF14, MD11, RCD<sup>+</sup>11, RBF<sup>+</sup>11, SR10, SSS<sup>+</sup>12, SB12a, SS15c, VFB<sup>+</sup>16, WDW11, YJW11]. **Performance** [BMB<sup>+</sup>10, Cla16, CHW<sup>+</sup>13, DBC<sup>+</sup>10, GSD<sup>+</sup>12, HP14, JBC<sup>+</sup>12, JPG<sup>+</sup>18, JLA17, KVA<sup>+</sup>19, LHHL17, MDP12, MGW13, PB15, PPF<sup>+</sup>13, SDW<sup>+</sup>17a, YSC10, vS10]. **Periodicity** [BJR14]. **Periods** [KGC<sup>+</sup>12, SGB13]. **Peripheral** [DKD<sup>+</sup>15]. **Peritoneal** [BDB<sup>+</sup>15]. **Permanent** [HLK11]. **perryi** [FSRK11]. **Persist** [HSM12]. **Persistence** [BZ12, CRH10, GWG<sup>+</sup>19, HDH16, ZTC12]. **Persistent** [JAA<sup>+</sup>13, SE11]. **Perspective** [MBEvdB<sup>+</sup>10, MVK12, RCD<sup>+</sup>11]. **Perspectives** [CBM<sup>+</sup>13, MVK12]. **Perturbation** [VIW<sup>+</sup>17]. **Perturbed** [LSPB11].

**Pervasive** [Nel14b]. **Peshtigo** [CSED10]. **Pesticide** [CHB<sup>+</sup>12]. **Peter** [Pra14]. **pH** [LRM<sup>+</sup>10, WCD<sup>+</sup>11]. **Phase** [BMM10, RLL<sup>+</sup>19, SHR<sup>+</sup>12, WL13]. **Phased** [AGH18]. **Phased-In** [AGH18]. **Phelps** [Chi13]. **Phenological** [CHMG<sup>+</sup>18]. **Phenology** [BS18, LRR<sup>+</sup>15]. **Phenotypes** [BVA11, BRG19]. **Phenotypic** [BEMF11, CHO<sup>+</sup>15, DBHV14, LCO<sup>+</sup>15, LCHB<sup>+</sup>18, WKS<sup>+</sup>19, WCQD18]. **Pheromone** [YSW<sup>+</sup>14]. **Phototaxic** [TBL<sup>+</sup>17]. **Phylogeographic** [GHPS<sup>+</sup>16]. **Physa** [SPCJ11]. **Physical** [ACRA10, ACRAM11, MAH<sup>+</sup>12]. **Physiological** [BMC<sup>+</sup>13, DYWY17, DEP<sup>+</sup>18, GWB<sup>+</sup>15, KH13, LMD<sup>+</sup>17, TKC<sup>+</sup>18, TBGM12, VWS13, YSC10]. **Physiology** [Cla16, MGW13]. **Piedmont** [CHR<sup>+</sup>17, THNG14]. **Pigmentation** [BDB<sup>+</sup>15]. **Pike** [Grel2, GIW<sup>+</sup>13, KBG<sup>+</sup>18, LDLH15, PTPS10, PCC<sup>+</sup>13, ZBHW16]. **Pikeminnow** [SHC<sup>+</sup>16]. **Pikeminnows** [DF14, HOWS10]. **Pine** [BHK<sup>+</sup>10]. **Pink** [IMO<sup>+</sup>14, MSS<sup>+</sup>17, RCC<sup>+</sup>13]. **Pinto** [BRS<sup>+</sup>12]. **pipiens** [ACK17]. **Piscicide** [BSHK<sup>+</sup>11]. **Piscicides** [BAZ12]. **Piscivore** [KM14, RSBF14, SBO12, SRP<sup>+</sup>18]. **Piscivores** [KKB<sup>+</sup>10]. **Piscivorous** [HBS13, JBV13, LRH12]. **Piscivory** [EPW15, HBB13, YCB<sup>+</sup>11]. **PIT** [ELC13, MCC<sup>+</sup>12, MKH13, AUDL18, BFH14, SCL<sup>+</sup>13, VSC15]. **PIT-Tagged** [SCL<sup>+</sup>13]. **Placement** [PPJ15]. **Plaice** [MLC13]. **Plain** [MSK15, MP10, OSA<sup>+</sup>17, THNG14]. **Plains** [BKC<sup>+</sup>19, BWHF17, BP10, FBF10, FMJ11, MLB18, MBG<sup>+</sup>11]. **Planktivory** [HTR13]. **Plasma** [BS16, MGK<sup>+</sup>18]. **Plastic** [DBHV14]. **Platforms** [RMC<sup>+</sup>17, RCM<sup>+</sup>19]. **Played** [ER18]. **Plume** [SFF<sup>+</sup>10]. **Point** [Yas16]. **Points** [RJH12, SR10]. **Pollock** [MHF12]. **Pollutants** [JAA<sup>+</sup>13]. **Polluted** [WHSK19]. **Polycyclic** [MHPB14]. **Polyhaline** [FWSW<sup>+</sup>15]. **polykrikoides** [RGP17]. **Polymerase** [BSC<sup>+</sup>16]. **Polymorphic** [SSH<sup>+</sup>11a]. **Polymorphism** [CVL<sup>+</sup>19, CHT13, EBF<sup>+</sup>14, HN11, LFB<sup>+</sup>15, NB13, STS<sup>+</sup>14]. **Polymorphisms** [AHS11a, CHS<sup>+</sup>11, GMP<sup>+</sup>11, HSM<sup>+</sup>10, MSW<sup>+</sup>10]. **polyphemus** [MBP<sup>+</sup>11]. **Polyphyly** [HOWS10]. **Ponds** [BNW<sup>+</sup>12, LLWW19]. **Pontchartrain** [vVO10]. **Pool** [DW16, LMPvdH18]. **Pool-and-Weir** [LMPvdH18]. **Poor** [NBC15]. **Population** [ACMM<sup>+</sup>15, ACDL19, AKM12, ASP<sup>+</sup>18, AGKW12, ASJ16, ASJ17, BP17, BYM19, BWDMM11, BBAK19, BRA14, BCM<sup>+</sup>19, BBS12, BMP<sup>+</sup>17, BLB<sup>+</sup>13, CS16, CBM<sup>+</sup>13, DCS<sup>+</sup>17, DSAM12, FQW<sup>+</sup>10, FSN<sup>+</sup>13, FMG<sup>+</sup>11, GGHS<sup>+</sup>14, GA10, HLB<sup>+</sup>16, HKR18, Han11, HSM12, HMSG<sup>+</sup>11, HLK11, HPSA16, HCS<sup>+</sup>16, HCNL10, JLV<sup>+</sup>10, JPFB13, KGC<sup>+</sup>12, KSF13, KR18, KHHG13, KU12, KRM13, LEM<sup>+</sup>11, MSS<sup>+</sup>11, MBL<sup>+</sup>18, MSP12, NB13, NR16, NDW10, OMA13, OS11, PGJ11, PM13, PHG<sup>+</sup>16, PGW<sup>+</sup>11, PM10, RL14, RRA<sup>+</sup>15, RPC14, RKEB13a, RKEB13b, SR10, SS18a, SMM13, SH10, SB12b, SBDW11, SFLH14, Spi12, SS15c, UWL12a, VHJ<sup>+</sup>15, VB14, WvPC12, WAW11, WSI14, WRQH17, WF19, WCN<sup>+</sup>19, WAKH12, WHP14, WOM14, ZBHW16, CWP<sup>+</sup>19]. **Population-Level** [FQW<sup>+</sup>10, GA10, NDW10]. **Populations**

[AMM<sup>+16</sup>, AGKW12, BBGB15, BSGB17, BGLP19, BLCN<sup>+10</sup>, Bea10, BSC<sup>+10</sup>, BBAK19, BJC12, CVL<sup>+19</sup>, CCH15, CHO<sup>+15</sup>, CRH10, CVB14, CJG13, CHS<sup>+11</sup>, DSHG10, DKD<sup>+15</sup>, DW16, DSRA12, DHRQ10, DA16, Eva17, FWD10, GSD<sup>+12</sup>, GSVS<sup>+10</sup>, GMB<sup>+19</sup>, HLB14, HBTT11, HVD<sup>+16</sup>, HSE<sup>+12</sup>, HMSG<sup>+11</sup>, HEC<sup>+15</sup>, HWN15, JPLS13, Lis14, Lis15, MSB<sup>+18</sup>, MHN11, MWSS13, MNM<sup>+17</sup>, MMY12, MSS<sup>+17</sup>, NDC<sup>+14</sup>, OWP<sup>+17</sup>, OWN11, PRW<sup>+10</sup>, PPF<sup>+13</sup>, PPH15, RMC<sup>+17</sup>, SDK<sup>+10</sup>, STS<sup>+14</sup>, SB12a, SMY11, SDSB18, SSM16, TNOU11, VFFP13, WBR11, WKS<sup>+19</sup>, WLW16].

**Portable** [ARB<sup>+18</sup>]. **Portion** [DHA<sup>+17</sup>]. **Position** [RFM<sup>+15</sup>, TRHHOGSJ14]. **Positive** [PPMJ14]. **Possible** [HM17]. **Post** [MHPB14]. **Post-Deepwater** [MHPB14]. **Postcapture** [DDMR10, RHR<sup>+15</sup>]. **Postcopulatory** [DK18]. **Posthatch** [LS18]. **Posthodiplostomum** [SPCJ11]. **Postrelease** [HBC15, TLM<sup>+19</sup>]. **Postsmolts** [LKS<sup>+12</sup>, RSG12]. **Postspawning** [EB16]. **Poststocking** [HDBS14]. **Postsurgical** [CHW<sup>+13</sup>]. **Pot** [DDMR10, SFF<sup>+10</sup>].

**Potamodromous** [FFYI16]. **Potential** [ARL<sup>+12</sup>, AUDL18, ARC<sup>+11</sup>, ARC<sup>+13</sup>, BDS10, BCRP13, BHP<sup>+15</sup>, BES15, CHLN15, DDMR10, DEW<sup>+14</sup>, DCBKR14, DSB<sup>+18</sup>, FRA13, HWD14, MT19, MBBM10, NAG13, PWP13, PGW<sup>+11</sup>, PM10, TKC<sup>+18</sup>, WBW<sup>+13</sup>].

**Potholes** [MGWP10]. **Potomac** [OI16, WL13]. **Pounder** [HWD14, PHM17]. **Practices** [CEFQ11, RPVS15]. **Pre** [HDBS14]. **Pre-** [HDBS14]. **Precision** [AHS11a, BFM10, HSF12, KM10, KDS18, VSC15].

**Precocious** [JJC12, LBC10]. **Predation** [AS12, ARL<sup>+12</sup>, BDS10, CSED10, CML19, ESD<sup>+17</sup>, ETC18, EHR<sup>+12</sup>, EPT<sup>+16</sup>, EPC<sup>+19</sup>, FBP11, HERC12, HEC<sup>+15</sup>, JJNB17, KST<sup>+12</sup>, KRM11, KRM13, LSD<sup>+14</sup>, LB15, MLBS<sup>+13</sup>, NLF13, PW10b, PK11, RBK<sup>+11</sup>, SPC<sup>+18</sup>, SBC<sup>+16</sup>, SCL<sup>+13</sup>, SS13, SHC<sup>+16</sup>, WMS15]. **Predator** [BPS11, CW11, DW13, EPW15, GS13, HN13, HB18, HEC<sup>+15</sup>, JBC<sup>+12</sup>, MAH<sup>+12</sup>, NPW12, NLF13, OGM<sup>+15</sup>, SDOK19, SGK16, TJB<sup>+14</sup>, WDWC10, ZBHW16]. **Predator-Specific** [HEC<sup>+15</sup>]. **Predators** [AGKH17, CW11, HKP11, KBG<sup>+18</sup>, OMA13, OWN11, WEW12].

**Predatory** [HSSS16, SBO12]. **Predict** [BHC<sup>+18</sup>, GvdHBC12, HGS<sup>+16</sup>, LSSYL10, WTB10]. **Predicting** [DW15, PSM12, PM19, PCT<sup>+12</sup>, PPD16, SR10, SWS10]. **Prediction** [EPS<sup>+15</sup>]. **Predictive** [SARC13]. **Predictor** [MYS<sup>+11</sup>]. **Predictors** [BC12, MBL12, SGP16]. **Predicts** [FBWT19, MGK<sup>+18</sup>]. **Preferences** [CTK<sup>+17</sup>]. **Preliminary** [RMW16]. **Preparation** [GDWD10].

**Preparations** [RNG<sup>+13</sup>]. **Prerestoration** [HKZ11]. **Presence** [PDSP<sup>+11</sup>]. **Present** [MSP12]. **Preservation** [FH12, OPS<sup>+14</sup>, VSBC13]. **Preserving** [PRW<sup>+10</sup>]. **Presmolt** [MGW13]. **Prespawn** [BNC<sup>+15</sup>, BRK<sup>+18</sup>]. **Press** [Cha13, Gid14, Pra14, Qui16, Shi13, Smi13, Var13]. **Pressure** [GIW<sup>+13</sup>].

**Prevalence** [EFC<sup>+11</sup>, HER<sup>+11</sup>, MHPB14]. **Prey** [BAKT12, CW11, CSDW10, DW13, DCJ<sup>+13</sup>, DA12, EPW15, GJC<sup>+18</sup>, HBS13, HN13, HB18, JC16, JBV13, KGW14, KLS17, KBG<sup>+18</sup>, KR18, LJHL10,

MBH12, MCO<sup>+10</sup>, NLF13, NCW<sup>+17</sup>, PW10b, PW10a, PB16, PHFN17, PGR13, SDOK19, SHCB16, TES14, TAM15, TJB<sup>+14</sup>, WDWC10, YCB<sup>+11</sup>].  
**Primary** [JRP12]. **Primer** [FVK<sup>+18</sup>]. **Principles** [Mat18]. **Prior** [QHS<sup>+13</sup>, WBM<sup>+17</sup>, GBZ14]. **Prioritization** [EPS<sup>+15</sup>]. **Prioritize** [WB15a]. **Private** [AJF10, AJF13a]. **Probabilities** [CGL<sup>+11</sup>, HEC<sup>+15</sup>, MH11, PF11a, PVJH15, PDM<sup>+14</sup>, SL16]. **Probability** [MLB18, PCT<sup>+12</sup>]. **Process** [NAW12]. **Processes** [HGS<sup>+16</sup>, MSP12].  
**Processing** [GNV<sup>+14</sup>]. **Produced** [BSS18, QSJ12, THKG10]. **Production** [BMF<sup>+15</sup>, BB10a, HGB<sup>+16</sup>, HTR13, MC14, MVP15, PM19, SFLH14, TTM<sup>+15</sup>]. **Productivity** [CCH15, KPS<sup>+19</sup>, Lis14, Lis15, Mic10, WOM14, WHC<sup>+10</sup>]. **Professionals** [LDA<sup>+13</sup>]. **Profiles** [DEP<sup>+18</sup>]. **Progenitor** [MSWD15]. **Progeny** [BQF<sup>+19</sup>, BSS18]. **Program** [BCF<sup>+11</sup>, CYP11, CTP<sup>+12</sup>, LLWW19, MNS<sup>+19</sup>, ZBHW16, Pet15].  
**Programs** [BGV11, CPS<sup>+15</sup>, SWB<sup>+16</sup>]. **Progress** [TH15]. **Projection** [SR10]. **Promote** [HDH16]. **Prone** [DMW<sup>+19</sup>]. **Pronounced** [WLW16]. **Propellers** [KMM<sup>+11</sup>]. **Properties** [PPF<sup>+16</sup>]. **Propofol** [VSBB<sup>+14</sup>]. **Proportion** [HSF12, HSA<sup>+16</sup>]. **Proportional** [WBR11]. **Proportions** [CCKF11]. **Protect** [BYM19]. **Protected** [GWG<sup>+19</sup>, SPCJ11]. **Protocol** [BMTP13]. **Protocols** [BSC<sup>+16</sup>]. **Provide** [AHS11a, BFK15]. **Provides** [CRC<sup>+16</sup>]. **Proximate** [Mit16, PM14, SF15]. **Proximity** [MS12].  
**Prymnesium** [VFFP13]. **Pseudogene** [MSWD15]. **Public** [AJFO10, AJF13a, AJF13b]. **Publication** [Yas16]. **Publishing** [Ber13].  
**Puget** [RGM<sup>+11</sup>, CEFQ11, DBS<sup>+10</sup>, GCG<sup>+18</sup>, RKF<sup>+13</sup>, WAFL10].  
**Pughead** [SO15]. **Pulse** [GIW<sup>+13</sup>]. **Pulsed** [BN16, CBM15, SBO12]. **Pulses** [FH17]. **Pupfish** [FPM13, SPCJ11]. **Purebred** [BDB<sup>+15</sup>]. **Purgatory** [ILH<sup>+18</sup>]. **Purifying** [MKHC17]. **Putative** [BWRA16, Esh14, YSW<sup>+14</sup>].

**Quality** [ARC<sup>+13</sup>, BPS11, EBMV10, HK12, LHHL17, PWP13, PKL<sup>+11</sup>, TES14, UNTA10]. **Quantification** [ELC13, TH15]. **Quantify** [BSGB17, PVJH15, VIW<sup>+17</sup>]. **Quantifying** [ACRAM11, BCG<sup>+12</sup>, HEC<sup>+15</sup>, LSJN13, MH11, MLB18, SBO12, SA16, WHF<sup>+12</sup>, WM12]. **Quantile** [CTN11]. **Quantitative** [BSC<sup>+16</sup>, HCW14, MCT17]. **Quantitatively** [JPRS10]. **Quantity** [MNM<sup>+17</sup>, RB12]. **Quebec** [HNK<sup>+12</sup>]. **Queen** [HAV<sup>+19</sup>]. **Quinton** [Chi13].

**R** [Chi13, Chr14, Shi13, Var13]. **Radar** [BDM<sup>+10</sup>, TFM<sup>+18</sup>, WTB10]. **Radar-Derived** [WTB10]. **Radio** [JCK<sup>+12</sup>, KCM14, TPA14]. **Radio-Tagged** [JCK<sup>+12</sup>, KCM14]. **Radiocarbon** [MLC13]. **Radiotelemetry** [GCM12, KST<sup>+12</sup>, TPLA16]. **Rain** [GWB<sup>+15</sup>]. **Rain-Induced** [GWB<sup>+15</sup>]. **Rainbow** [BS13, CML19, DWN<sup>+15</sup>, FWB<sup>+15</sup>, FFYI16, HP14, IBH12, JJNB17, JMM<sup>+11</sup>, KKM11, KYK17, LMPvdH18, MGP11, MSW<sup>+10</sup>, MHE12, MKHC17, OTR<sup>+14</sup>, ODG<sup>+11</sup>, PB15, PGJ11, PT10, RL19, SPR<sup>+16</sup>, TD13, WMS15, WAR12]. **Rajidae** [MAS10]. **Raker**



[RB18]. **Ramp** [RHEF19]. **Random** [SDBB12]. **Range** [BAHP11, CKM<sup>+11</sup>, DW15, PF11b, RG16, SK11, SMM13, VCP<sup>+14</sup>, ZTC12]. **Ranges** [PS14]. **Rangewide** [BLCB13]. **Ranking** [TNS<sup>+14</sup>]. **Rapid** [HAR18, HMSG<sup>+11</sup>, WNCF10]. **Rare** [NLF13]. **Rate** [BDS10, Eva17, HLB14, HGS<sup>+16</sup>, LJHL10, SLG<sup>+14</sup>, TRLG13, TL15, YJW11]. **Rates** [BMH19, BVA11, EBA<sup>+19</sup>, HMTC12, HN13, HBB17, HAR18, HVD<sup>+16</sup>, HSE<sup>+12</sup>, HGP<sup>+17</sup>, KMM<sup>+11</sup>, KKM11, MH11, NB12, PGWS15, SPR<sup>+16</sup>, Sto10, WAFL10, ZBW10, dHST13]. **Ratio** [CPS<sup>+15</sup>, VSBC13]. **Ration** [GDM<sup>+11</sup>]. **Rations** [PB15]. **Ratios** [RBF<sup>+11</sup>]. **Raton** [Shi13]. **Ray** [SWH<sup>+17</sup>]. **Rays** [BSR12, BSSP18, CMM<sup>+17</sup>, Pra14]. **Razorback** [DSAM12, ESD<sup>+17</sup>, PFG19, ZBW10]. **Re** [PM15]. **Re-Estimating** [PM15]. **Reach** [JZS<sup>+19</sup>]. **Reaches** [DW15, REN17]. **Reaction** [BSC<sup>+16</sup>]. **Reappraisal** [GDG<sup>+15</sup>]. **Reared** [BJA<sup>+13</sup>, DWE<sup>+19</sup>, EWW13, MSWS10, SZZ10, SVKK18, SNI<sup>+13</sup>, TB16, TPLA16, TLM<sup>+19</sup>, ZBW10]. **Rearing** [BCP<sup>+11</sup>, BHS<sup>+17</sup>, BWD<sup>+17</sup>, CEFQ11, CSD<sup>+14</sup>, DF11, JADJ<sup>+14</sup>, NRZ<sup>+13</sup>, PB15, PPP<sup>+13</sup>, SLG<sup>+14</sup>, TES14]. **Rebuild** [AGH18]. **Recapture** [ASP<sup>+18</sup>, Eva17, HLB<sup>+16</sup>, HLK11, HRG12, MK16, PGWS15, WvPC12]. **Recaptured** [DMHO12]. **Recognized** [Nel14b]. **Recognizing** [SSH11b]. **Recolonization** [LPM<sup>+17</sup>, PKL<sup>+11</sup>, WBM<sup>+17</sup>]. **Recolonize** [HCZ13]. **Recolonizing** [BLB<sup>+13</sup>]. **Recompression** [BS16]. **Reconditioned** [JPG<sup>+18</sup>]. **Reconnected** [RDR<sup>+10</sup>]. **Reconnection** [NDP16]. **Reconstruct** [SWH<sup>+17</sup>]. **Reconstructing** [FSRK11, VBJS10]. **Reconstruction** [HBS12, HCNL10, PPJ15, SMN<sup>+10</sup>]. **Record** [SO15]. **Recoveries** [EHR<sup>+12</sup>, Wei10]. **Recovery** [ARB<sup>+18</sup>, BGLP19, CGL<sup>+11</sup>, CHB<sup>+12</sup>, FCG<sup>+17</sup>, HGB<sup>+16</sup>, HEC<sup>+15</sup>, HPSA16, JAA<sup>+13</sup>, PB15, PTG<sup>+10</sup>, PET<sup>+17</sup>, RFM<sup>+15</sup>, TBGM12, VB14, YSC10]. **Recreational** [AJFO10, AJF10, AJF13a, AJF13b, BGB<sup>+16</sup>, DPS14, KQ11, KAH16, WBR11]. **Recruiting** [DSAM12, ZZMC13]. **Recruitment** [ARC<sup>+11</sup>, ARC<sup>+13</sup>, BP16, CBMR14, CVB14, DMRK14, FBF10, FWSW<sup>+15</sup>, GSA<sup>+19</sup>, JRBC13, JM14, KWCI10, KYK17, MHE12, MS13, MS12, OTR<sup>+14</sup>, PW10a, PWP13, RCD<sup>+11</sup>, RAB<sup>+18</sup>, RMW16, SP10, SA16, SM13a, SS13, SS11, SMMK12, THL<sup>+17</sup>, VFB<sup>+16</sup>, WB13a]. **Recruits** [ASJ16]. **Red** [BCMPDSZ10, DSB<sup>+18</sup>, GWG<sup>+19</sup>, JPLS13, MS12, PS14, PDH<sup>+18</sup>, RSVAB19, SJ11, SFF<sup>+10</sup>, SAW<sup>+17</sup>, SCB15, TS13]. **Redband** [CM10, DFB15, HSM12, HS13, KCMS11, PGJ11, SLM10]. **Redd** [Dud19]. **Redds** [BGV11]. **Redfish** [KPS<sup>+19</sup>]. **Redhorse** [FK18, FKH15, SJFF15]. **Redside** [BMTP13]. **Reduce** [MVK12]. **Reduced** [CRC<sup>+16</sup>, LRM<sup>+10</sup>, MWG18]. **Reduces** [WNCF10]. **Reduction** [Arc16, LS10b, PPMJ14]. **Reductions** [FBF10, GWB<sup>+15</sup>]. **Reed** [LDLH15]. **Reef** [GSD<sup>+12</sup>, JDS15, PE14, SDBB12]. **Reefs** [DSB<sup>+18</sup>, PS14, RB12]. **Reference** [RJH12]. **Reflect** [RSBF14]. **Reflex** [BC12, CCB16]. **Refuge** [BNC<sup>+15</sup>, BCS19, BNS<sup>+14</sup>, CRC<sup>+16</sup>, FJJ<sup>+12</sup>, JJNB17]. **Refuge-Seeking** [BNS<sup>+14</sup>]. **Refugia** [MSH17, PHHM12]. **Regarding** [TBC<sup>+13</sup>]. **Regime** [BWHF17, GP12]. **Regimes**

[BHD<sup>+</sup>16, GJC<sup>+</sup>18, HR15, MSD<sup>+</sup>19, RB13, RBF14]. **Region** [BMP<sup>+</sup>17]. **Regional** [AGJ11, EPR<sup>+</sup>18, OWS16, SJ11, VJGV11, Pet15]. **Regional-Scale** [EPR<sup>+</sup>18]. **Regionalizing** [FA10]. **Regions** [MGP11, MSS<sup>+</sup>17]. **Regression** [CTN11]. **Regulate** [WB13a]. **Regulated** [FKH15, HK12, KKM11, WRQH17]. **Regulating** [SWP<sup>+</sup>18]. **Regulation** [MRPW19]. **Regulations** [SDSB18]. **Rehabilitation** [KWW14]. **Reintroducing** [SHCB16]. **Reintroduction** [MNS<sup>+</sup>19]. **Reintroductions** [SHC<sup>+</sup>16]. **Reis** [Var13]. **Reject** [AGKH17]. **Relate** [VFB<sup>+</sup>16]. **Related** [BNS<sup>+</sup>14, CHPG12, DWN<sup>+</sup>15, HK12, KQ11, MK16, MR11, OPHD18, PT10, SZGS12, TB14, UACS<sup>+</sup>19, WBD17]. **Relation** [DM11a, JPSM12, KCJ<sup>+</sup>15, LKP<sup>+</sup>13, MSD<sup>+</sup>19, MK15, PA10, RT14, RB18]. **Relations** [BK11, FKF<sup>+</sup>19a, RHW15]. **Relationship** [BWRA16, DLHF16, EHC<sup>+</sup>14, HER<sup>+</sup>11, RZW<sup>+</sup>12, RMW16, WBW<sup>+</sup>13]. **Relationships** [BLCN<sup>+</sup>10, CM11a, LHHL17, MOS13, RR13, SF15, SM13a, TA12, WSI14]. **Relative** [BS15, BMM10, BA13, CN11, HHJH17, JSW<sup>+</sup>15, KDS18, MSWD15, PFG19, PA10, RL19, SCL<sup>+</sup>13, SWB<sup>+</sup>16, SIKR17, WF19, WBMG10]. **Relatives** [Shi13]. **Release** [BQF<sup>+</sup>19, CS16, CEFQ11, CFHE11, FM17, KAH16, LUC<sup>+</sup>15, LSV<sup>+</sup>13, RHR<sup>+</sup>15, TBC<sup>+</sup>13]. **Released** [BNS<sup>+</sup>14, KPS<sup>+</sup>19, SVKK18, SNI<sup>+</sup>13]. **Reliable** [CYW<sup>+</sup>19]. **Relief** [KCM14]. **Relocation** [LPM<sup>+</sup>17]. **Remain** [CEFQ11]. **Remnant** [AGKW12]. **Remote** [DFB15, WRP<sup>+</sup>12, WTB10]. **Remote-Sensing** [WRP<sup>+</sup>12]. **Removal** [BHK<sup>+</sup>10, FWB<sup>+</sup>15, GBZ14, HGB<sup>+</sup>16, HEW12, HCZ13, HCZG15, JZS<sup>+</sup>19, PPJ15, QHS<sup>+</sup>13, STZ13, SDOK19, WCZ<sup>+</sup>18, WCMP13, WBM<sup>+</sup>17, WZK<sup>+</sup>15, ZBHW16]. **Removals** [RH14]. **Removing** [LV14, MKHC17]. **Repeat** [JPG<sup>+</sup>18]. **Replace** [BB10a, HKR18]. **Replacement** [ER18, ERL15]. **Reported** [AJFO10]. **Representative** [BCF<sup>+</sup>13, DA16, FRA13]. **Reproduction** [BH11, FBWT19, GDG<sup>+</sup>15, GSJS17, HGSG17, MBPP18, PW10a, RJWK10, SSM16, THL<sup>+</sup>17]. **Reproductive** [BVA11, BCF<sup>+</sup>11, BS16, BGW<sup>+</sup>17, BCMPDSZ10, BJR14, CABNQ<sup>+</sup>13, CTG14, Con17, DDMR10, DSB<sup>+</sup>18, FK18, GSR<sup>+</sup>11, HAV<sup>+</sup>19, HM17, JCS14, JPG<sup>+</sup>18, KSSK<sup>+</sup>17, KMS<sup>+</sup>18, LF15, LRR<sup>+</sup>15, MR11, NDC<sup>+</sup>14, NG13, OWN11, OSDT18, PSM12, PCFH17, QSVD11, RNG<sup>+</sup>13, SCW<sup>+</sup>13, SA14, SE11]. **Required** [CGA13, HCD10, MNM<sup>+</sup>17]. **Requirements** [HGS<sup>+</sup>16, PB17]. **Research** [Nel14b, Yas16]. **Reservoir** [ETC18, FRBA13, FRA13, LAR16, MGWP10, MBPA13, SCW<sup>+</sup>13, SHC<sup>+</sup>16, TES14, WF19, WB15b]. **Reservoirs** [BRA14, HBB17, HARL18, Mic10, MS13, MFR15, PNMH<sup>+</sup>12, RHKD12, SM13a, SHCB16, SL16, TRW10, TKC<sup>+</sup>12, VFFP13]. **Residence** [BNTT17, GCG<sup>+</sup>18]. **Residency** [FDWG13, MBH16, WSK11]. **Resident** [BWRA16, CMM<sup>+</sup>17, CM10, FRBA13, FPM15, MS12, SHCB16, TAM15, WAR12]. **Residualization** [MH11]. **Resilience** [PAA14, RCC<sup>+</sup>13]. **Resistance** [Rey16]. **Resistant** [FWB<sup>+</sup>15]. **Resolution**

[ACB<sup>+</sup>14, HPG10, MSW<sup>+</sup>10, WR14]. **Resolving** [MHN11]. **Resorption** [HCW14]. **Resource** [BMTP13, CHLN15, CBM15, FH17, LDA<sup>+</sup>13]. **Resources** [BCRP13, GJC<sup>+</sup>18]. **Respond** [SJGL16]. **Response** [ACDL19, ARC<sup>+</sup>13, AKK<sup>+</sup>19, AMBM12, CWP<sup>+</sup>19, DEP<sup>+</sup>18, DBHV14, EMS<sup>+</sup>14, EB16, FPD12, FPR<sup>+</sup>18, HCZG15, JKP10, JMM<sup>+</sup>11, LRM<sup>+</sup>10, Lis15, PHHM12, PPC13, PE14, PPP<sup>+</sup>13, PKPS11, SHH<sup>+</sup>19, Str12, TASC17, WRQH17, WCYH18, WZK<sup>+</sup>15]. **Responses** [BEWM10, BCF<sup>+</sup>13, BSCA17, BAR15, FQW<sup>+</sup>10, GWB<sup>+</sup>15, HBS13, LRM<sup>+</sup>10, MWS10, NDP16, NDP19, OGM<sup>+</sup>15, RBZ<sup>+</sup>17, RBK<sup>+</sup>11, SR10, SS18a, SDSB18, TBGM12, VWS13, VIW<sup>+</sup>17, YSC10]. **Responsible** [CEM<sup>+</sup>19]. **Restoration** [AKK<sup>+</sup>19, BEWM10, DEW<sup>+</sup>14, EPS<sup>+</sup>15, EBMV10, FPR<sup>+</sup>18, Lan16, PPC13, PPMJ14, PE14, WB15a]. **Restore** [JADJ<sup>+</sup>14]. **Restored** [JZS<sup>+</sup>19, MWS10, PPW<sup>+</sup>14]. **Restraint** [CJL<sup>+</sup>14]. **Restricted** [GRS12, SR15]. **Results** [AJF10, RKEB13a]. **Resumption** [HGB<sup>+</sup>16]. **Retention** [LBD<sup>+</sup>16, PBG<sup>+</sup>11]. **Retrospective** [WS15]. **Return** [BQF<sup>+</sup>19, MNS<sup>+</sup>19]. **Returning** [EMS<sup>+</sup>14, IMO<sup>+</sup>14]. **Reveal** [DWE<sup>+</sup>18, DBHV14, MLBS<sup>+</sup>13, SSH<sup>+</sup>11a]. **Revealed** [HSM<sup>+</sup>10, HCNL10, KHHG13, MCSF14, NW14, PDSP<sup>+</sup>11, RMM11, ZKH12]. **Reveals** [BQF<sup>+</sup>19, BBAK19, GRS12, LEM<sup>+</sup>11, RHKD12, SPM<sup>+</sup>17, Spi12]. **Review** [Ber13, Cha13, Chi13, Chr14, Fle16, Gid14, HCD<sup>+</sup>14, LDA<sup>+</sup>13, Nel14a, Pet15, Pra14, Qui16, Ryp13, Shi13, Smi13, Var13, Yas16, Zyd11]. **Reviewer** [Ano18g, Ano19h]. **Reviews** [Ano10a, Ano10b]. **Revisited** [ETC18]. **Revisiting** [Bea10]. **Rice** [Nel14a]. **Richard** [Yas16]. **Richness** [HCD10]. **Ring** [LS18]. **Rings** [Rey16]. **Rio** [Arc16, BMB<sup>+</sup>10, HKO<sup>+</sup>18, HMP18, ZTC12, ZBC<sup>+</sup>13]. **Riparian** [FQW<sup>+</sup>10]. **Riprap** [BT16, TT17]. **Riprap-Hardened** [TT17]. **Riprap-Sill-Hardened** [BT16]. **Rise** [PGS13]. **Risk** [AS12, ABM17, BHG<sup>+</sup>10, EPS<sup>+</sup>15, FBWZ19, HTH<sup>+</sup>17, HMSG<sup>+</sup>11, MCH<sup>+</sup>13, NPW12, PW10b]. **Risk-Taking** [NPW12]. **Risks** [HLH14]. **River** [AHS11a, ACRA10, ACRAM11, ACDL19, AFHF12, Arc16, AS17, BP16, BP17, BMGL12, BGV<sup>+</sup>12, BP13, BQF<sup>+</sup>19, BAHP11, BNS<sup>+</sup>16, BHD<sup>+</sup>16, BDB<sup>+</sup>15, BSCA17, BR11, BWD<sup>+</sup>17, BHP<sup>+</sup>15, BKC<sup>+</sup>19, BGW<sup>+</sup>17, BDM<sup>+</sup>10, BCS19, BSD13, BHK<sup>+</sup>10, BW10, CSED10, CGM15, CTS<sup>+</sup>15, CTPM13, CTP<sup>+</sup>12, DCS<sup>+</sup>17, DHA<sup>+</sup>17, DF11, DWGF11, DWG14, DEW<sup>+</sup>14, DWE<sup>+</sup>18, DHRQ10, DF14, EPS<sup>+</sup>15, EBF<sup>+</sup>14, EMS<sup>+</sup>14, FJP18, FZZ<sup>+</sup>10, FKH15, FRM18, FPM15, FWBT17, FGW<sup>+</sup>16, GPBA18, GBW16, GP12, GJC<sup>+</sup>18, GA17, GBZ14, HGBE16, HGB<sup>+</sup>16, HLB14, HSS17, HBTT11, HCW14, HN11, HK12, HHES13, HGG<sup>+</sup>16, HCZ13, HCZG15, HKZ11, HUMG<sup>+</sup>18, HUSST19, HERC12, JPFB13, JRBC13, JRP12, JAA<sup>+</sup>13, JZS<sup>+</sup>19, JSW12, KHW<sup>+</sup>14, KBC<sup>+</sup>18, KQ11, KK16, KHHG13, KCZH14, KPZ<sup>+</sup>12, KKM11, KCMS11, LHS<sup>+</sup>13, LHHL17, LCO<sup>+</sup>15, MPHG10, MHN11, MSW<sup>+</sup>14, MHHH10]. **River** [MSS<sup>+</sup>11, MPM<sup>+</sup>14, MKK15, MVP15, MFR15, MWG18, NHM10, NCW<sup>+</sup>17, OS11, OSA<sup>+</sup>17, PSH<sup>+</sup>19, PFG19, PBB<sup>+</sup>15, PB13, PHM17, PDP12, PPC13, PPMJ14, PSB16, PPD16, PA10, QHS<sup>+</sup>13, RHEF19, RPC14, RBZ<sup>+</sup>17, RW11,

RMW16, RDR<sup>+10</sup>, RRG<sup>+17</sup>, SYH<sup>+15</sup>, SK11, SP10, SJ11, SRMB<sup>+14</sup>, SS13, SE11, SH12, SFH15, SIKR17, SHCB16, SPH<sup>+15</sup>, SGB13, Sto10, SJFF15, Str10, Str12, SWP<sup>+18</sup>, TL17, TB14, TW14, TCBI11, TAM15, TBTS12, TL14, TL15, UWL12a, UWL12b, UPT<sup>+13</sup>, VFFP13, VBJS10, WDR16, WB15a, WAW11, WM12, WSQ<sup>+15</sup>, WRQH17, WCZ<sup>+18</sup>, WAKH12, WS15, WRP<sup>+12</sup>, Yas16, YHWH10, YITI12, ZBW10, ZBHW16, ZKB<sup>+15</sup>, ACRA10, Ano11a, BBF<sup>+18</sup>, BK11, BNS<sup>+16</sup>, BQHR17, BNC<sup>+15</sup>, BCH<sup>+11</sup>, BH11, BWD<sup>+17</sup>, BEMF11, BD15, BLB<sup>+13</sup>, CKC<sup>+12</sup>, CCKF11, CRC<sup>+16</sup>, CFHE11, CYP11, CRH10, CDB10]. **River** [CBAC19, CAB11, DML<sup>+10</sup>, DM11b, DMHM<sup>+18</sup>, EFC<sup>+11</sup>, ETC18, EHR<sup>+12</sup>, EPC<sup>+19</sup>, EWSR16, FPD12, FPR<sup>+18</sup>, FWT<sup>+14</sup>, GDM<sup>+10</sup>, GDM<sup>+11</sup>, HMTc12, HKW<sup>+14</sup>, HPF<sup>+16</sup>, HP13, HJM<sup>+12</sup>, HLR<sup>+12</sup>, HTR13, HBB17, HSG10, HKKS14, HWD14, HWD<sup>+16</sup>, HS13, JSW12, JHK<sup>+19</sup>, KBO<sup>+12</sup>, KPS<sup>+19</sup>, LPM<sup>+17</sup>, MGWP10, MC14, MBH16, MKH13, MOS13, NZF<sup>+11</sup>, OI16, PZS17, PJ11, PTG<sup>+10</sup>, PGVG15, PGS13, PGR13, RH14, RDH11, REN17, RT14, SZGS12, SJT<sup>+16</sup>, SMO<sup>+14</sup>, SCL<sup>+13</sup>, SLM10, SFLH14, SZZ10, SPH<sup>+15</sup>, SWS10, SNI<sup>+13</sup>, Stu18, TC11, TKC<sup>+12</sup>, TKC<sup>+18</sup>, TLM<sup>+19</sup>, TTM<sup>+15</sup>, VCP<sup>+14</sup>, VHJ<sup>+15</sup>, VFFP13, VHPP19, WL13, WKC18, WBM<sup>+17</sup>, YCB<sup>+11</sup>, ZZMC13, ZKH12]. **River-Specific** [GPBA18, HSS17]. **Riverine** [CR10, HBA<sup>+15</sup>, KM10, LB15, PNM<sup>+10</sup>, SJ11, SSR<sup>+17</sup>, TES14]. **Rivers** [BDM<sup>+10</sup>, DF12, HBC15, HR15, HPHB10, ILH<sup>+18</sup>, Lov11, MLB18, NAW12, PAB<sup>+11</sup>, PDM<sup>+14</sup>, RHKD12, BES15, GSA<sup>+19</sup>, KMM<sup>+11</sup>]. **Riverscape** [FBF10, FBS<sup>+14</sup>, FFYI16, PHHM12]. **RNA** [RBF<sup>+11</sup>]. **Road** [BP10, ILH<sup>+18</sup>, MCW<sup>+14</sup>, TPBB14]. **Roanoke** [ER18, SFH15]. **Robust** [FKH15, OS11, SJFF15]. **Rock** [ER18, HCR14, RHEF19]. **Rockfish** [BS16, Con17, GMP<sup>+11</sup>, GRS12, JM14, LF15, PKPS11]. **Rocky** [ACWIK13]. **Rods** [Rey16]. **Role** [BHG<sup>+10</sup>, DWG14, ER18, Esh14, GNMM12, HHES13, MKH10, MHF12, OMA13, PRW<sup>+10</sup>]. **Roles** [Mic10]. **Rondeau** [GCM12]. **Ross** [Gid14]. **Rotenone** [ACK17, BSHK<sup>+11</sup>, BZ12]. **Rougheye** [GMP<sup>+11</sup>]. **Roundtail** [LRH12]. **Route** [HT13]. **Routine** [BNW<sup>+12</sup>]. **Royale** [MBZ<sup>+14</sup>, GSJS17]. **Ruin** [ILH<sup>+18</sup>]. **Rules** [TRW10]. **Run** [BWD<sup>+17</sup>, FMG<sup>+11</sup>, HN11, KHW<sup>+14</sup>, LMD<sup>+17</sup>, MHHH10, MBL<sup>+18</sup>, SCC17, SMN<sup>+10</sup>, VJGV11, WRP<sup>+12</sup>]. **Runge** [Chr14]. **Runs** [OSA<sup>+17</sup>, Str12].

**S** [Nel14a, Var13, BTWB17]. **Sablefish** [CBM15, EBG18]. **Saco** [NCW<sup>+17</sup>]. **Sacramento** [FSP<sup>+17</sup>, PBB<sup>+15</sup>, HSG10, PGVG15]. **Safety** [BTWB17]. **Sagavanirktok** [BDM<sup>+10</sup>]. **Sagehen** [MDT10]. **Saginaw** [IHTF11]. **Sagittal** [BSSP18]. **Saint** [DCS<sup>+17</sup>, TL17, UWL12a, UWL12b, UPT<sup>+13</sup>]. **Sakhalin** [FSRK11]. **Saline** [BRGR10]. **Salinity** [CDB10, FWD10, FDWG13, NDW10, SPCJ11]. **Salmincola** [Mit16, MFR15]. **Salmon** [AHS11a, AKK<sup>+19</sup>, Ano11a, AHS10, BMF<sup>+15</sup>, BHLK10, BQF<sup>+19</sup>, BHC<sup>+18</sup>, Bea10, BWDM11, BCP<sup>+11</sup>, BBC<sup>+14a</sup>, BBC<sup>+14b</sup>, BNTT17, BNS<sup>+16</sup>, BHS<sup>+17</sup>, BS18, BNC<sup>+15</sup>, BVA11, BGV11, BBM<sup>+14</sup>, BWD<sup>+17</sup>,

BRK<sup>+18</sup>, BDBE11, BA13, BBS12, BEMF11, BCG<sup>+12</sup>, BLB<sup>+13</sup>, BFM10, CBVF15, CZK<sup>+17</sup>, CKS<sup>+19</sup>, CHMG<sup>+18</sup>, CJL<sup>+14</sup>, CHO<sup>+15</sup>, CEFQ11, CKFQ11, CRC<sup>+16</sup>, CFHE11, CC16, CTS<sup>+15</sup>, CHW<sup>+13</sup>, CTPM13, CTG14, CVB14, CNM<sup>+18</sup>, CTK<sup>+17</sup>, CHS<sup>+11</sup>, DSHG10, DF11, DEW<sup>+14</sup>, DWE<sup>+18</sup>, DWE<sup>+19</sup>, DBC<sup>+10</sup>, DEP<sup>+18</sup>, DML<sup>+10</sup>, DHRQ10, DBS<sup>+10</sup>, DJ17, DHB15, EMS<sup>+14</sup>, ETC18, FBWZ19, FJP18, FSJ<sup>+11</sup>, FWT<sup>+14</sup>, FBS<sup>+14</sup>, FRM18, FPM15, FMS10, FMG<sup>+11</sup>, FH17, GWOD18, GCG<sup>+18</sup>, GDM<sup>+10</sup>, GDM<sup>+11</sup>, GHPS<sup>+16</sup>, GJC<sup>+18</sup>, GA17, GSA<sup>+19</sup>, HSM<sup>+10</sup>, HMTTC12, HGBE16, HBS13, HGB<sup>+16</sup>, HLB14, HT13, HBB17, HDQ<sup>+17</sup>, HSS17, HRR<sup>+11</sup>, HWH10, HSG10, HN11, HKZ11, HMSG<sup>+11</sup>]. **Salmon** [HWN15, HM17, IMO<sup>+14</sup>, ILH<sup>+18</sup>, JMB<sup>+13</sup>, JBC<sup>+12</sup>, JJC12, JRP12, JPMS12, JAA<sup>+13</sup>, JADJ<sup>+14</sup>, KBC<sup>+18</sup>, KQ11, KK16, KHHG13, KPZ<sup>+12</sup>, KPS<sup>+19</sup>, KRM11, KRM13, LKS<sup>+12</sup>, LBC10, LHS<sup>+13</sup>, LRM<sup>+10</sup>, LHHL17, LUC<sup>+15</sup>, LPM<sup>+17</sup>, LBD<sup>+16</sup>, LB15, MPHG10, MKH10, MM17, MWS10, MSBT10, MSD<sup>+19</sup>, MHN11, MNS<sup>+19</sup>, MSS<sup>+11</sup>, MBH16, MM10, MGK<sup>+18</sup>, MK16, MGW13, MCT17, MCO<sup>+10</sup>, MCH<sup>+13</sup>, MCP<sup>+15</sup>, MSWD15, MSS<sup>+17</sup>, NHM10, NMH12, NRZ<sup>+13</sup>, NBC15, OPHD18, PBG<sup>+11</sup>, PNM<sup>+10</sup>, PT10, PJ11, PPF<sup>+13</sup>, PBB<sup>+15</sup>, PPH15, PKL<sup>+11</sup>, PBC12, PM15, PGS13, PGR13, QHS<sup>+13</sup>, Qui19, RCC<sup>+13</sup>, RSB14, RPSB14, RRA<sup>+15</sup>, RSG12, RGM<sup>+11</sup>, RHR<sup>+15</sup>, RT14, RKF<sup>+13</sup>, RBH<sup>+12</sup>, SJT<sup>+16</sup>, STS<sup>+14</sup>, SMO<sup>+14</sup>, SCC17, SK11, SKP<sup>+10</sup>, SCL<sup>+13</sup>, SSH<sup>+11a</sup>, SHH<sup>+19</sup>, SBDW11, SE11, SFLH14, SLG<sup>+14</sup>, SZZ10, SVKK18, SMN<sup>+10</sup>, SHP<sup>+19</sup>, Str10, Str12, TRMC15, TM19]. **Salmon** [TC11, TKC<sup>+12</sup>, TES14, TKC<sup>+18</sup>, TW14, TLM<sup>+19</sup>, TTW<sup>+11</sup>, TTM<sup>+15</sup>, VJGV11, VBJS10, VSC15, WHF<sup>+12</sup>, WNCF10, WM12, WCZT11, WZCT12, WCYH18, WAD<sup>+17</sup>, Wei10, WHP14, WOM14, WBD14, WHC<sup>+10</sup>, WRP<sup>+12</sup>, WTB10, Yas16, ZSVK13, ZKB<sup>+15</sup>, ZKH12, ZZD10, vZNW12, VBJS10, WAD<sup>+17</sup>]. **Salmon-Derived** [WM12]. **Salmonid** [AGJ11, CM11b, Dud19, EGAW12, GBB<sup>+14</sup>, HWN15, JKP10, LMPvdH18, MYS<sup>+11</sup>, MC14, MLS<sup>+13</sup>, PT10, RHW15, RDR<sup>+10</sup>, SMY11, SDOK19, TNOU11, TD13]. **Salmonids** [ARL<sup>+12</sup>, ACWIK13, CN11, DBB<sup>+12</sup>, EHR<sup>+12</sup>, EPT<sup>+16</sup>, Fre19, HOGO10, HJM<sup>+12</sup>, HGS<sup>+16</sup>, KST<sup>+12</sup>, LRH12, MGWP10, MFR15, RSL11, SZGS12, SHM<sup>+12</sup>, SHC<sup>+16</sup>, SHCB16, SGK16, TBL<sup>+17</sup>, UNTA10, vZNW12]. **Salmonine** [TJB<sup>+14</sup>]. **Salmonines** [BB10a]. **Salt** [JPRS10, RC16, QHS<sup>+13</sup>]. **Salt-Marsh** [JPRS10, RC16]. **Salvelinus** [DPS14, SDK<sup>+10</sup>]. **Sam** [Pet15]. **Sample** [CGA13, DJ17, GDWD10, Hoe17, JPRS10, SC13, ZC13]. **Sampled** [WBWSK12]. **Samples** [Goo19, OPS<sup>+14</sup>]. **Sampling** [BN16, BR14, BSC<sup>+16</sup>, CGL<sup>+11</sup>, CBSB15, FWSW<sup>+15</sup>, GBF12, HCD10, KCZH14, MAN<sup>+12</sup>, Nel14b, Poe14, PNMH<sup>+12</sup>, PDM<sup>+14</sup>, RC16, SIKR17]. **San** [FSP<sup>+17</sup>, KR18, PBB<sup>+15</sup>, RKEB13a, RKEB13b, ARL<sup>+12</sup>, BSSM12, BBF<sup>+18</sup>, BRS<sup>+12</sup>, BSC<sup>+16</sup>, CGM15, DF14, GP12, LHHL17, NLF13, NR16, PFG19, SBC<sup>+16</sup>, SMH<sup>+11</sup>]. **Sand** [FPD12, MLB18, PPF<sup>+16</sup>, PKP<sup>+17</sup>, RMC<sup>+17</sup>, Yas16]. **Sand-Bed** [MLB18]. **Sandbanks** [RW11]. **Sands** [SPCJ11]. **Sandy** [TT17]. **Santa** [LSSYL10]. **sapidus** [DDMR10, DK18]. **SAR** [BDM<sup>+10</sup>]. **Saskatchewan** [VCP<sup>+14</sup>].

**Satilla** [FGW<sup>+</sup>16]. **Saugers** [Whi12]. **Saugeye** [ZLHS10]. **Savannah** [BP16, BP17, VHPP19]. **Scale** [BR11, CBVF15, CM11b, DK18, DW16, DA16, EPR<sup>+</sup>18, HGBE16, HCW14, HBA<sup>+</sup>15, HMP18, JJC12, JCK<sup>+</sup>12, MSB<sup>+</sup>18, MFH13, PE14, PS14, PRK<sup>+</sup>16, RA10, SLG<sup>+</sup>14, TPBB14, TL14, WDDS13, WAKH12]. **Scale-Dependent** [DW16]. **Scaled** [KP14]. **Scales** [BHLK10, BSM13, BSR12, FQW<sup>+</sup>10, KMKS13, MBH16, MM10, PPF<sup>+</sup>16]. **Scan** [FDSB18]. **Scaphirhynchus** [HGG<sup>+</sup>16]. **Scenarios** [FJJ<sup>+</sup>12, SWS10]. **School** [SCF16]. **Science** [HNRB19, Jac18, Zyd11]. **Scientific** [Yas16, LDA<sup>+</sup>13]. **Scientists** [LS10a]. **Screen** [HTH<sup>+</sup>17, MGP11, YSC10]. **Screened** [SO12]. **Screening** [CCL<sup>+</sup>19, HLH14]. **Sculpin** [WCN<sup>+</sup>19]. **Sculpins** [WBD17]. **sdY** [CHO<sup>+</sup>15]. **Sea** [BMM10, CHB<sup>+</sup>12, DJ17, Esh14, HCZ13, HBA<sup>+</sup>15, JZBP16, KST<sup>+</sup>12, MJHP18, MJH17, NAW12, Smi13, SJ14, TA12, VJGV11, BCP<sup>+</sup>11, BBL<sup>+</sup>12, GRS12, HSM<sup>+</sup>10, SSH<sup>+</sup>11a, SS15a, SS18b, Spi12]. **Sea-Run** [VJGV11]. **Seabass** [SDOK11]. **Seabed** [DGMC17]. **Seagrass** [DSBS14, DHB15, FWSW<sup>+</sup>15]. **Search** [TLM<sup>+</sup>19]. **Seascape** [Sec19]. **Season** [BP13, PF11a, WLLCF16]. **Seasonal** [BHLK10, BAH11, CHPG12, CAB11, DW16, FWD10, FDWG13, FZZ<sup>+</sup>10, FFY116, GBW16, GZB12, HN13, LAR16, LB15, MP10, MBH12, MVP15, PMF<sup>+</sup>10, QHS<sup>+</sup>13, RSL11, RL19, SCW<sup>+</sup>13, TCBI11, TTW<sup>+</sup>11, WSK11]. **Seasonality** [HPG10, SCB15]. **Seasonally** [AHS<sup>+</sup>11b, FH17, SB12a, TAM15]. **Seatrout** [AAD14, DLHF16, RPVS15]. **Seattle** [Yas16]. **Seaward** [HT13]. **Seawater** [CHW<sup>+</sup>13, MCC<sup>+</sup>12, MGW13, ZZD10]. **Seber** [CBSB15]. **second** [Shi13]. **Secor** [Qui16]. **Section** [DKS18, SM13b, TNOU11]. **Sections** [GBW16]. **Sedation** [TBGM12]. **Sedative** [BTWB17]. **Sedatives** [TBC<sup>+</sup>13]. **Sediment** [BB15, MKH10]. **Seeking** [BNS<sup>+</sup>14]. **Segment** [ASP<sup>+</sup>18, BYM19, MBL<sup>+</sup>18]. **Segments** [DM11a, HK12, KLR<sup>+</sup>15]. **Segregation** [BGOQ13, DCBKR14, MCD17, WCQD18]. **Seine** [WF11]. **Seining** [MLB18]. **Seismic** [GIW<sup>+</sup>13]. **Seitz** [Chi13]. **Selected** [BNW<sup>+</sup>12, FA10]. **Selecting** [Goo19]. **Selection** [AS12, AHS11a, AIC13, BCM<sup>+</sup>19, BB10b, DWG14, DCJ<sup>+</sup>13, DML<sup>+</sup>10, EWW13, GPBA18, HKKS14, KQ11, KBO<sup>+</sup>12, MGP11, MAH<sup>+</sup>12, RB12, TRW10, WCZT11]. **Selective** [BNTT17, CFHE11, GCG<sup>+</sup>18, KK16, SAF<sup>+</sup>19, TB14]. **Selectivity** [CSDW10, MSH<sup>+</sup>14, PGR13, TP11, WDWC10]. **seleniris** [SPM<sup>+</sup>17]. **Selenium** [HNV<sup>+</sup>18]. **Self** [MNM<sup>+</sup>17]. **Self-Sustaining** [MNM<sup>+</sup>17]. **Semi** [BJA<sup>+</sup>13]. **Semi-Intensive** [BJA<sup>+</sup>13]. **Semichronic** [KH13]. **Sensing** [WRP<sup>+</sup>12]. **Sensitive** [EB16, NAW12]. **Sensitivity** [CJGH13, SH10, TNS<sup>+</sup>14]. **Sensor** [KM10]. **Sensory** [ABM17]. **Sentinel** [DCM10]. **Separate** [HLK11]. **Separation** [PL13, RB18]. **Septicemia** [EFC<sup>+</sup>11]. **Sequence** [Whi12]. **Sequences** [HOWS10]. **Sequencing** [LFB<sup>+</sup>15]. **Serendipitous** [CYP11]. **Series** [HPG10, WMV<sup>+</sup>16]. **Service** [Yas16]. **Several** [BS15]. **Severity** [Mic10]. **Sex** [BS16, BMR<sup>+</sup>12, CHO<sup>+</sup>15,

CPS<sup>+15</sup>, LSSYL10, MSD18, MJGV14, MSH<sup>+14</sup>, SCW<sup>+13</sup>, YSW<sup>+14</sup>].  
**Sex-Biased** [MJGV14]. **Sex-Determining** [CHO<sup>+15</sup>]. **Sex-Specific** [BMR<sup>+12</sup>, MSH<sup>+14</sup>]. **Sexes** [SB12a]. **Sexual** [DCBKR14, PM14, SWC13].  
**Shad**  
[CTP<sup>+12</sup>, CEM<sup>+19</sup>, DMCO11, DMHO12, FBJR11, GBZ14, HTR13, HBB17, HHES13, HMO14, Mic10, MR11, PNMH<sup>+12</sup>, RH14, SYH<sup>+15</sup>, SH12, YITI12].  
**Shallow** [CHT13, LBBW17, SJT<sup>+16</sup>, WB13a]. **Shallow-Water** [CHT13].  
**Shape** [MVK12, RMMGPB16]. **Shapes** [PNM<sup>+10</sup>]. **Shaping** [CKM<sup>+11</sup>].  
**Shared** [JBV13]. **Shark** [GN13, NG13, NAWM14]. **Sharks**  
[CTG14, CAB11, GGP<sup>+15</sup>, Pra14, Shi13, WAFL10]. **shasta** [CRC<sup>+16</sup>].  
**Sheep** [BCF<sup>+11</sup>]. **Sheephead** [LSSYL10]. **Sheepshead** [RCM<sup>+19</sup>]. **Shelf**  
[MAS10, PDH<sup>+18</sup>]. **Shenandoah** [EWSR16]. **Shift** [PB16]. **Shifting**  
[OGM<sup>+15</sup>]. **Shifts** [BCM<sup>+19</sup>, CS16, DBS<sup>+10</sup>, HSSS16, KGC<sup>+12</sup>, LCO<sup>+15</sup>, MD11, SRP<sup>+18</sup>, SMH<sup>+11</sup>]. **Shiner** [SB12b]. **Shoal**  
[DSBS14, RMC<sup>+17</sup>, RMW16]. **Shoal-** [DSBS14]. **Shore**  
[CHPG12, TLKT17, WQD14]. **Shore-Spawning** [WQD14]. **Shoreline**  
[BT16, DSBS14, WBMG10]. **Shoreline-Associated** [DSBS14]. **Shorelines**  
[TT17]. **Short**  
[AGH18, CHB<sup>+12</sup>, DEP<sup>+18</sup>, FWB<sup>+15</sup>, FH12, HKO<sup>+18</sup>, MBP<sup>+11</sup>, MGW13].  
**Short-Duration** [MGW13]. **Short-Lived** [HKO<sup>+18</sup>]. **Short-Term**  
[AGH18, CHB<sup>+12</sup>, FWB<sup>+15</sup>, FH12, MBP<sup>+11</sup>, DEP<sup>+18</sup>]. **Shortjaw**  
[BHG<sup>+10</sup>]. **Shorthead** [BP17, FZZ<sup>+10</sup>, JPF13, JZS<sup>+19</sup>, KDS18, PSH<sup>+19</sup>, PF11b, PB13, UWL12a, UWL12b, UPT<sup>+13</sup>, VHPP19, WS15, WZK<sup>+15</sup>].  
**Should** [ARC<sup>+13</sup>, Hoe17, PWP13]. **Shovelnose** [PTG<sup>+10</sup>, SDW<sup>+17a</sup>].  
**Shows** [CHO<sup>+15</sup>]. **Shrimp** [RW11]. **Shubenacadie** [CDB10, DMHM<sup>+18</sup>].  
**Shutdowns** [EWSR16]. **Siberian** [BHC<sup>+13</sup>, CJM<sup>+15</sup>]. **Sibling** [RB18].  
**Sibship** [WCN<sup>+19</sup>]. **Sibship-based** [WCN<sup>+19</sup>]. **Sicklefin** [FK18]. **Side**  
[FDSB18, MC14, RBZ<sup>+17</sup>, SFF<sup>+10</sup>, WSQ<sup>+15</sup>]. **Side-Channel** [WSQ<sup>+15</sup>].  
**Side-Entrance** [SFF<sup>+10</sup>]. **Side-Scan** [FDSB18]. **Signatures**  
[ASJ15, BFK15]. **Significance** [AMM<sup>+16</sup>]. **Significant** [BNTT17, PRW<sup>+10</sup>].  
**Sill** [BT16]. **Silver**  
[EWSR16, GGC17, HGSG17, LLWW19, SPC<sup>+18</sup>, SWP<sup>+18</sup>, ZRM<sup>+16</sup>].  
**Silverside** [BSSM12]. **Silvery** [Arc16, BMB<sup>+10</sup>, HKO<sup>+18</sup>]. **Similar**  
[BNW<sup>+12</sup>, KBG<sup>+18</sup>]. **Similarity** [HCD10]. **Simple** [ZM10]. **Simulated**  
[BRGR10, BDBE11, BCG<sup>+12</sup>, BAZ12, LSV<sup>+13</sup>, RCC<sup>+13</sup>]. **Simulating**  
[HR15, WR14]. **Simulation** [GKBG12, RJH12, THGA15]. **Simulations**  
[CM10, LV14, MCH<sup>+13</sup>]. **Sinauer** [HCD<sup>+14</sup>]. **since** [BBS12]. **sinensis**  
[FCG<sup>+17</sup>]. **Single**  
[BDBE11, CHS<sup>+11</sup>, EBF<sup>+14</sup>, GMP<sup>+11</sup>, HSM<sup>+10</sup>, HKR18, HRG12, LFB<sup>+15</sup>, MSW<sup>+10</sup>, NB13, PF11a, STS<sup>+14</sup>, SSH<sup>+11a</sup>, AHS11a, CVL<sup>+19</sup>, HN11].  
**Single-** [PF11a]. **Single-Nucleotide** [CHS<sup>+11</sup>, EBF<sup>+14</sup>, GMP<sup>+11</sup>, HSM<sup>+10</sup>, LFB<sup>+15</sup>, MSW<sup>+10</sup>, STS<sup>+14</sup>, SSH<sup>+11a</sup>, AHS11a, CVL<sup>+19</sup>, HN11].  
**Single-Pass** [HKR18]. **Single-Suture** [BDBE11]. **Siscowet**  
[AHS<sup>+11b</sup>, GSR<sup>+11</sup>, SJMG14]. **Site**

[DPB13, DML<sup>+10</sup>, HCD10, TLKT17, TNS<sup>+14</sup>, WLW16, YYA<sup>+16</sup>].  
**Site-to-Site** [HCD10]. **Situ** [DMR<sup>+10</sup>, TM19]. **Situations** [HGP<sup>+17</sup>]. **Six** [PKPS11]. **Sixgill** [WAFL10]. **Size** [AGH18, ARC<sup>+11</sup>, BAHP11, Bea10, BBC<sup>+14b</sup>, BNTT17, BBL<sup>+12</sup>, CS16, CEFQ11, CFHE11, CC16, CTPM13, CPS<sup>+15</sup>, EPW15, FH12, GCG<sup>+18</sup>, GDG<sup>+15</sup>, GGC17, Goo15, Goo19, HBS13, Hoe17, HMSG<sup>+11</sup>, IBH12, JLV<sup>+10</sup>, KM14, LJHL10, MBPA13, Mic10, MBL<sup>+18</sup>, MSP12, MSH<sup>+14</sup>, OWS16, OWN11, OWP13, PW10b, PKL<sup>+11</sup>, PB13, QSVD11, QHS<sup>+13</sup>, RZW<sup>+12</sup>, RMC<sup>+17</sup>, SJT<sup>+16</sup>, SMO<sup>+14</sup>, SCC17, SAF<sup>+19</sup>, SK11, SW11, SAW<sup>+17</sup>, TRLG13, TB14, TM19, TA12, UWL12a, VSBC13, WMS15, WBD14, ZC13].  
**Size-** [MSH<sup>+14</sup>]. **Size-Class** [MBPA13]. **Size-Selective** [BNTT17, CFHE11, GCG<sup>+18</sup>, SAF<sup>+19</sup>, TB14]. **Sized** [BDS10, MHE12].  
**Sizes** [BGB<sup>+16</sup>, CGA13]. **Skagit** [TB14, ZKB<sup>+15</sup>]. **Skates** [MAS10].  
**Skeena** [PGS13]. **Skeins** [AGKH17]. **Skill** [DBC<sup>+10</sup>]. **Skills** [SCF16]. **Skin** [MHPB14]. **Skip** [JPG<sup>+18</sup>]. **Skipped** [SJMG14, TBTS12]. **Slimy** [WCN<sup>+19</sup>]. **Small** [ACMM<sup>+15</sup>, AUDL18, AKK<sup>+19</sup>, BRA14, BAZ12, Cla16, EB16, FMJ11, HW14, HCZG15, JPRS10, KHF<sup>+18</sup>, MKH10, MBPA13, PCC<sup>+13</sup>, SRMB<sup>+14</sup>, SBW14, SAH<sup>+14</sup>, THNG14, VWS13, vVO10].  
**Small-Bodied** [AUDL18, Cla16, HW14, SRMB<sup>+14</sup>]. **Small-Stream** [HCZG15]. **Smallmouth** [BB10b, CSDW10, EFC<sup>+11</sup>, ETC18, HPHB10, KGC<sup>+12</sup>, LV14, LS10b, RO16, WCZT11, WZCT12]. **Smallscale** [DG14].  
**Smelt** [BSSM12, KR18, LMPvdH18, LFB<sup>+15</sup>, NLF13, NR16, OTR<sup>+14</sup>, PMN19, RKEB13a, RKEB13b, SBC<sup>+16</sup>, SPR<sup>+16</sup>, YSC10]. **Smith** [HGBE16]. **Smoking** [TLM<sup>+19</sup>]. **Smolt** [AHS10, BSC<sup>+10</sup>, BHS<sup>+17</sup>, CHMG<sup>+18</sup>, CT12, HGB<sup>+16</sup>, HDQ<sup>+17</sup>, SLG<sup>+14</sup>, SHP<sup>+19</sup>]. **Smolt-to-Adult** [BHS<sup>+17</sup>]. **Smoltification** [HSM12]. **Smolting** [LBC10, TB16]. **Smolts** [CNM<sup>+18</sup>, HSS17, HKZ11, MBT10, SZZ10, TRMC15, TLM<sup>+19</sup>, ZZD10].  
**Smoothhound** [GGP<sup>+15</sup>]. **Snake** [KCMS11, TKC<sup>+12</sup>, WDR16, Ano11a, BWD<sup>+17</sup>, CKC<sup>+12</sup>, CBAC19, DWG14, ETC18, GDM<sup>+10</sup>, GDM<sup>+11</sup>, HMTTC12, HCW14, KPS<sup>+19</sup>, PJ11, TC11, TLM<sup>+19</sup>, TTM<sup>+15</sup>, WAW11, WM12]. **Snakehead** [LN18].  
**Snakeheads** [OI16]. **Snapper** [BCMPDSZ10, DSB<sup>+18</sup>, FWSW<sup>+15</sup>, JPHK10, JPLS13, MBPP18, MS12, PS14, PDH<sup>+18</sup>, SAW<sup>+17</sup>, SCB15, TS13].  
**Snook** [DG14, RNG<sup>+13</sup>, TBTS12, WBMG10, YYA<sup>+16</sup>]. **Snorkeling** [ELC13]. **SNP** [CVL<sup>+19</sup>, HN11, DPS14]. **SNPs** [AHS11a]. **Social** [SAF<sup>+19</sup>, vZNW12]. **Society** [Ano13b, Ano14b, Ano16, Ano17b, Ano19i, Chi13, Chr14, LDA<sup>+13</sup>, Nel14a, Ryp13, Zyd11, SRMB<sup>+15</sup>]. **Sockeye** [AHS11a, BQF<sup>+19</sup>, BHC<sup>+18</sup>, BCP<sup>+11</sup>, BBC<sup>+14a</sup>, BBC<sup>+14b</sup>, BNS<sup>+16</sup>, CZK<sup>+17</sup>, CKS<sup>+19</sup>, CHW<sup>+13</sup>, CHS<sup>+11</sup>, DEP<sup>+18</sup>, DHRQ10, FH17, HSM<sup>+10</sup>, HGB<sup>+16</sup>, HDQ<sup>+17</sup>, KPS<sup>+19</sup>, MPHG10, MKH10, MNS<sup>+19</sup>, MSS<sup>+11</sup>, PNM<sup>+10</sup>, PGR13, RHR<sup>+15</sup>, SSH<sup>+11a</sup>, SHP<sup>+19</sup>, TW14, TLM<sup>+19</sup>, TTM<sup>+15</sup>, WHP14, Yas16]. **Software** [MCW<sup>+14</sup>]. **Somatic** [MNB18]. **Some** [JPH17].  
**Sonar** [BFM10, FDSB18, GBB<sup>+14</sup>, MJHP18, MBBM10, OSA<sup>+17</sup>]. **Sonic** [SNI<sup>+13</sup>]. **Sonic-Tagged** [SNI<sup>+13</sup>]. **Sound**



[MVP15, CEFQ11, DBS<sup>+10</sup>, GCG<sup>+18</sup>, RGM<sup>+11</sup>, RKF<sup>+13</sup>, WAFL10]. **Source** [BLB<sup>+13</sup>]. **Sources** [AJF13a, FSC<sup>+13</sup>, LLWW19]. **South** [CTP<sup>+12</sup>, MVP15, NRZ<sup>+13</sup>, TRHHOGSJ14, WBD14, AAD14, CEM<sup>+19</sup>, LBBW17, MSK15, PGW<sup>+11</sup>]. **South-Central** [NRZ<sup>+13</sup>]. **Southeast** [DSHG10, EBG18, GSA<sup>+19</sup>]. **Southeastern** [FRBA13, Ada18, ABS<sup>+11</sup>, AMM<sup>+16</sup>, DH11, EPR<sup>+18</sup>, KSSK<sup>+17</sup>, LAR16, PPF<sup>+16</sup>, PKP<sup>+17</sup>, RSVAB19, SDW15, ZHWR11]. **Southern** [AKM12, AGKW12, FDWG13, HL10, MBL<sup>+18</sup>, NW14, PF11b, RG16, TVL<sup>+12</sup>, VJGV11, WCD<sup>+11</sup>, BHP<sup>+15</sup>, BCMPDSZ10, CABNQ<sup>+13</sup>, CML19, FK18, FKF<sup>+19a</sup>, FKF<sup>+19b</sup>, GSR<sup>+11</sup>, Han18, HMSG<sup>+11</sup>, KP14, MLC13, RMMGPB16, RJ11, SJMG14, TNS<sup>+14</sup>, WK13]. **Southern-Strain** [WCD<sup>+11</sup>]. **Southernmost** [SDK<sup>+10</sup>]. **Southwest** [HKO<sup>+18</sup>, OWP<sup>+17</sup>, PCFH17, SGB13]. **Southwestern** [BJR14, MD11, WDW11]. **Space** [WB15b]. **Spanning** [Mic10]. **Spartina** [BT16]. **Spatial** [BHLK10, BR11, BGOQ13, CTK<sup>+17</sup>, DHRQ10, DCM10, EPT<sup>+16</sup>, FSJ<sup>+11</sup>, FQW<sup>+10</sup>, FM17, HGBE16, HCNL10, HMP18, IWB<sup>+13</sup>, KMKS13, KHK<sup>+15</sup>, MCD17, MSB<sup>+18</sup>, MAH<sup>+12</sup>, MBH16, MVP15, PZS17, PPF<sup>+16</sup>, PSH<sup>+19</sup>, PGVG15, RHW15, RL19, SJT<sup>+16</sup>, SMO<sup>+14</sup>, SMJ14, SA14, SS18b, SWC13, SBMH12, SMMK12, TL14, WR14, WBD17, YJW11]. **Spatially** [Dud19, HBT11, RBZ<sup>+17</sup>, VB14]. **Spatiotemporal** [HGSG17, RO16, WB13b, PHG<sup>+16</sup>]. **Spawn** [SVKK18]. **Spawner** [CCH15, Lis14, Lis15, RSB14]. **Spawners** [HSF12]. **Spawning** [BGV<sup>+12</sup>, BP13, BHC<sup>+18</sup>, BMM10, BGW<sup>+17</sup>, BD15, BGOQ13, CGB19, CM11a, Con17, CTK<sup>+17</sup>, DML<sup>+10</sup>, EBF<sup>+14</sup>, FPR<sup>+18</sup>, FPM15, FS16, GBZ14, GA10, HKW<sup>+14</sup>, HDBS14, HCW14, HSA<sup>+16</sup>, HBA<sup>+15</sup>, HUSST19, HM17, JPG<sup>+18</sup>, JZS<sup>+19</sup>, JSW<sup>+15</sup>, KHW<sup>+14</sup>, MPHG10, MKH10, MM17, MSW<sup>+14</sup>, MHHH10, MJS<sup>+19</sup>, MSS<sup>+11</sup>, MPM<sup>+14</sup>, MBL<sup>+18</sup>, MR11, OSA<sup>+17</sup>, PDP12, PPP<sup>+13</sup>, PGVG15, RB12, RCC<sup>+13</sup>, RHW15, RRG<sup>+17</sup>, RO16, SNC<sup>+10</sup>, SKP<sup>+10</sup>, SJMG14, SHR<sup>+12</sup>, SH12, SFH15, SBMH12, SFF14, SJFF15, SS15c, SJ14, TL17, TW14, TBTS12, VHPP19, WZC<sup>+14</sup>, WLLCF16, WQD14, WCQD18, WZK<sup>+15</sup>, WRP<sup>+12</sup>, YITI12, YYA<sup>+16</sup>, ZKH12]. **Spawning-Phase** [BMM10]. **Special** [DKS18, LMPvdH18, SM13b, TNOU11]. **Specialization** [JK17]. **Species** [ACDL19, AFHF12, BBC14c, BCF<sup>+13</sup>, CT16, CBW<sup>+16</sup>, DPB13, DW13, DPS14, DYWY17, DCM10, FBWZ19, FRA13, GS16, GBB<sup>+14</sup>, HARL18, HRHS16, HCD10, HWN15, LSD<sup>+14</sup>, MHF12, MCD17, MSW<sup>+10</sup>, MDT10, Mit16, MWG18, MBBM10, NDW10, PPF<sup>+16</sup>, PFG19, PL13, PVJH15, PKPS11, SF17, SR15, Sto10, TD13, WDDS13, WB15a, ZSVK13]. **Species-Specific** [Sto10]. **Specific** [BBC<sup>+14a</sup>, BBC<sup>+14b</sup>, BA13, BMR<sup>+12</sup>, DSB<sup>+18</sup>, GPBA18, HMTC12, HSS17, HEC<sup>+15</sup>, MSH<sup>+14</sup>, RL14, RAB<sup>+18</sup>, Sto10, TP11, TTW<sup>+11</sup>]. **Speckled** [ZHWR11]. **Spectra** [BBL<sup>+12</sup>]. **Sperm** [BMTP13]. **Spheres** [Rey16]. **Spill** [SFB16]. **Spiny** [DCBKR14, DG19, FRRCGA<sup>+15</sup>]. **SPO-125** [Yas16]. **Sport** [HARL18, KSB16, LBBW17, PGW<sup>+11</sup>]. **Spot** [FBH<sup>+13</sup>, TLKT17]. **Spotted**

[AAD14, BSHK<sup>+11</sup>, BSSP18, DKD<sup>+15</sup>, DLHF16, FS16, GCM12, KDS18, LS18, LCHB<sup>+18</sup>, RPVS15]. **spp** [JSW12, RMC<sup>+17</sup>]. **spp.** [SKBS18]. **Spring** [Arc16, BHS<sup>+17</sup>, DML<sup>+10</sup>, FJP18, GCM12, HMTC12, HM17, JRP12, LBC10, LHS<sup>+13</sup>, MGK<sup>+18</sup>, PPMJ14, PPW<sup>+14</sup>, PPJ15, SKP<sup>+10</sup>, TKC<sup>+12</sup>]. **Springer** [Pet15]. **Springfish** [DM11b]. **Springs** [SFLH14]. **sSOD** [HRR<sup>+11</sup>]. **sSOD-1\*** [HRR<sup>+11</sup>]. **St** [EFC<sup>+11</sup>, Han18, MLC13, ZZMC13]. **St.** [FPR<sup>+18</sup>, MHHH10, TAM15]. **Stability** [BEWM10, CJG13, PPD16]. **Stabilization** [RBZ<sup>+17</sup>]. **Stable** [BL11, CHLN15, OPS<sup>+14</sup>, QSJ12, RMM11, VSBC13, WB13b]. **Stage** [BB15, CDB10, GPBA18, GA17, HMTC12, KRM13, LV14, PSM12, PFG19, SJGL16, SBC<sup>+16</sup>, TD13, TB16]. **Stage-Structured** [LV14]. **Stages** [CSED10, CSD<sup>+14</sup>, HDQ<sup>+17</sup>, PKL<sup>+11</sup>, TA13, TB14]. **Staghorn** [WBD17]. **Standardization** [YJW11]. **Standardized** [CEM<sup>+19</sup>, PSM12, Poe14]. **Starvation** [FBJR11]. **State** [BBG<sup>+18</sup>, EPR<sup>+18</sup>, SHM<sup>+12</sup>, TBL<sup>+17</sup>, BRS<sup>+12</sup>]. **State-** [EPR<sup>+18</sup>]. **State-Dependent** [SHM<sup>+12</sup>]. **State-Straying** [BBG<sup>+18</sup>]. **States** [Ada18, ABS<sup>+11</sup>, ADS<sup>+11</sup>, DW15, FA10, HLH14, HTH<sup>+17</sup>, MAS10, PPF<sup>+16</sup>, PKP<sup>+17</sup>, ZHWR11]. **Static** [RB13, RBF14]. **Statistical** [SMN<sup>+10</sup>]. **Statistically** [CYW<sup>+19</sup>]. **Status** [ACRA10, BP17, BLCB13, BS16, DKS18, FBB<sup>+13</sup>, FGW<sup>+16</sup>, HGG<sup>+16</sup>, MBEvdB<sup>+10</sup>, MGK<sup>+18</sup>, MDD<sup>+16</sup>, PSB16, SCW<sup>+13</sup>, SPH19, Zyd11]. **Steamboat** [GWG<sup>+19</sup>]. **Steelhead** [AMBM12, BSC<sup>+10</sup>, BGV11, BCF<sup>+11</sup>, BHP<sup>+15</sup>, BCM<sup>+19</sup>, BBG<sup>+18</sup>, BGOQ13, CKC<sup>+12</sup>, CCH15, CJL<sup>+14</sup>, CBSB15, CBAC19, CWP<sup>+19</sup>, DBHV14, EHC<sup>+14</sup>, EPC<sup>+19</sup>, GGHS<sup>+14</sup>, GNMM12, HMTC12, HRB<sup>+16</sup>, HCW14, HWD14, HWD<sup>+16</sup>, HER<sup>+11</sup>, HERC12, JPG<sup>+18</sup>, JSW<sup>+15</sup>, KH13, LMD<sup>+17</sup>, Lis14, Lis15, MGP11, MSH17, MBT10, MK15, PM14, PHM17, QSVD11, QSJ12, RL19, SSH11b, SO12, TVL<sup>+12</sup>, TB14, TB16, VHJ<sup>+15</sup>, WCMP13, WAKH12]. **Steelhead/Rainbow** [RL19]. **Stem** [HPHB10]. **Stephen** [Gid14]. **Stephenson** [Chr14]. **Stickleback** [HBHS15, MBG10]. **Stingray** [HL10]. **Stock** [AHS11a, ARC<sup>+11</sup>, ACB<sup>+14</sup>, BBGB15, BBC<sup>+14a</sup>, BBC<sup>+14b</sup>, CKC<sup>+12</sup>, CTS<sup>+15</sup>, EMS<sup>+14</sup>, FSN<sup>+13</sup>, HP13, HS13, JAA<sup>+13</sup>, KHD<sup>+14</sup>, LSJN13, MM10, NMH12, PDSP<sup>+11</sup>, RL14, RMMGPB16, RGM<sup>+11</sup>, RT14, RJ11, SJT<sup>+16</sup>, SMO<sup>+14</sup>, SM13a, SJMG14, TTW<sup>+11</sup>, VFB<sup>+16</sup>, WBR11, WMW<sup>+12</sup>, WMG<sup>+14</sup>]. **Stock-Recruitment** [SM13a]. **Stock-Specific** [BBC<sup>+14a</sup>, BBC<sup>+14b</sup>, TTW<sup>+11</sup>]. **Stocked** [CML19, FKF<sup>+19a</sup>, FKF<sup>+19b</sup>, HT13, KM14, KMS<sup>+18</sup>, NDC<sup>+14</sup>, WK13]. **Stocking** [AGKW12, BMF<sup>+15</sup>, BJA<sup>+13</sup>, CPS<sup>+15</sup>, CTP<sup>+12</sup>, MHE12, MMY12, PGW<sup>+11</sup>]. **Stocks** [AGH18, AHS10, ACB<sup>+14</sup>, CKC<sup>+12</sup>, DMCO11, GDPW10, HSM<sup>+10</sup>, RNG<sup>+13</sup>, SZZ10, VHJ<sup>+15</sup>]. **Stomach** [BN16, BL11]. **Stone** [CGDL18, RMC<sup>+17</sup>, RCM<sup>+19</sup>]. **Stonecats** [PPD16]. **Stored** [OPS<sup>+14</sup>]. **Strain** [DF12, WCD<sup>+11</sup>]. **Strains** [BAKT12, HP14, MFAS<sup>+12</sup>]. **Strait** [HCR14, MBT10, NBC15]. **Strategies** [BSS18, HS13, JWHJ13, Str12, ZKB<sup>+15</sup>]. **Strategy** [Bel12, HLK11, NPW12, NAG13]. **Straying** [BWD<sup>+17</sup>, BBG<sup>+18</sup>, HSE<sup>+12</sup>].

**Stream**

[ACRA10, ACRAM11, AKK<sup>+19</sup>, BS13, BWHF17, CHR<sup>+17</sup>, Cla16, CVB14, DWG14, DW15, ERL15, FQW<sup>+10</sup>, FSFS17, HJS<sup>+16</sup>, HN13, HCZG15, HUSST19, HLK11, HCNL10, JADJ<sup>+14</sup>, KLR<sup>+15</sup>, KPZ<sup>+12</sup>, LBC10, MRPW19, MCD17, MWS10, MSD<sup>+19</sup>, MJHP18, MP10, MBM10, MLS<sup>+13</sup>, MKHC17, MKA10, MWT14, NJ12, OSA<sup>+17</sup>, PPF<sup>+16</sup>, PM14, PF11a, PCFH17, PKL<sup>+11</sup>, PPC13, PPMJ14, PPP<sup>+13</sup>, PHFN17, RSL11, SKP<sup>+10</sup>, STZ13, UNTA10, UACS<sup>+19</sup>, WDR16, WNCF10, WZCT12, WCMP13, WHC<sup>+10</sup>, ZSVK13].

**Stream-Dwelling** [BS13, STZ13, WNCF10]. **Stream-Maturing** [PM14].

**Stream-Rearing** [PPP<sup>+13</sup>]. **Stream-Type** [CVB14, LBC10]. **Streamflow**

[FBF10, GNMM12]. **Streams** [ACRA10, ACRAM11, AGJ11, BEWM10, BSGB17, BGLP19, BP10, BZ12, BAZ12, CRH10, DF11, DMRK14, DH11, EBMV10, FKF<sup>+19a</sup>, FKF<sup>+19b</sup>, FRM18, FHCSN12, GNMM12, HEW12, HCD10, KMKS13, KMS<sup>+18</sup>, KRRW18, KP14, MKH10, MSK15, MBM10, MFR15, MBG<sup>+11</sup>, OPHD18, PTWK11, PSGB13, RMM11, SPH<sup>+15</sup>, SAH<sup>+14</sup>, THNG14, TNS<sup>+14</sup>, WCZT11, WK13, WTB10]. **Streamside** [WHC<sup>+10</sup>]. **Strength** [CCB16, SWP<sup>+18</sup>]. **Stress** [ARB<sup>+18</sup>, CKS<sup>+19</sup>, CM10, DMRK14, FBJR11, KH13, RCC<sup>+13</sup>, TASC17, YSC10]. **Stressors** [BNS<sup>+14</sup>].

**Stretch** [SGB13]. **Striped**

[CDB10, DF12, DA12, DMHM<sup>+18</sup>, HHJH17, KHD<sup>+14</sup>, LSJN13, Nel14a, NLF13, PMF<sup>+10</sup>, SB12b, SH12, SMH<sup>+11</sup>, TRW10, TBGM12, WSK11].

**Stronach** [BHK<sup>+10</sup>]. **Strontium** [HLR<sup>+12</sup>, PBW16, SSH11b]. **Structural** [KVA<sup>+19</sup>]. **Structure**

[AKM12, AGKW12, ADS<sup>+11</sup>, BWDM11, BRA14, BR11, BKC<sup>+19</sup>, BJC12, CHPG12, CS16, CC16, CTS<sup>+15</sup>, CBM<sup>+13</sup>, FSN<sup>+13</sup>, GGHS<sup>+14</sup>, GHPS<sup>+16</sup>, HCNL10, KSF13, KHK<sup>+15</sup>, KHHG13, KP14, KCMS11, LEM<sup>+11</sup>, LCHB<sup>+18</sup>, MSK15, MSS<sup>+11</sup>, MBG<sup>+11</sup>, PGJ11, PTWK11, PB13, RB12, STS<sup>+14</sup>, SMM13, SB12b, STK12, SAW<sup>+17</sup>, SS15c, VHJ<sup>+15</sup>, VIW<sup>+17</sup>, WAW11, WSQ<sup>+15</sup>, WAKH12, WKC18, WLW16, WMG<sup>+14</sup>]. **Structured**

[BCH<sup>+11</sup>, BBS12, LV14, SR10, SS11]. **Structures**

[JMM<sup>+11</sup>, KDS18, MCP<sup>+15</sup>, SH12]. **Structuring** [NJ12]. **Studies**

[BSC<sup>+16</sup>, ELC13, HEC<sup>+15</sup>, MBBM10, MSH<sup>+14</sup>, VSC15]. **Study** [BEMF11, DKS18, DCJ<sup>+13</sup>, HRG12, KCM14, MRPW19, RJH12, TF13, VB14, ZC13].

**Sturgeon** [ASP<sup>+18</sup>, BP16, BP17, BMGL12, BGV<sup>+12</sup>, BLG<sup>+13</sup>, BAHP11, BMC<sup>+13</sup>, BH11, BHC<sup>+13</sup>, CJM<sup>+15</sup>, CSED10, CSD<sup>+14</sup>, DCS<sup>+17</sup>, DG13, EBF<sup>+14</sup>, FCG<sup>+17</sup>, FZZ<sup>+10</sup>, FPR<sup>+18</sup>, FBP11, FSC<sup>+13</sup>, FP19, FGW<sup>+16</sup>, HKW<sup>+14</sup>, HPF<sup>+16</sup>, HKKS14, HSE<sup>+12</sup>, JLV<sup>+10</sup>, JPFB13, JCS14, JZS<sup>+19</sup>, JHK<sup>+19</sup>, KHW<sup>+14</sup>, KBO<sup>+12</sup>, LEM<sup>+11</sup>, MBPA13, MNM<sup>+17</sup>, MNB18, MBL<sup>+18</sup>, MSP12, NCW<sup>+17</sup>, PSH<sup>+19</sup>, PF11b, PB13, PHG<sup>+16</sup>, PTG<sup>+10</sup>, PGVG15, RDH11, REN17, SMM13, SP10, SH10, SDW<sup>+17a</sup>, SWH<sup>+17</sup>, SCW<sup>+13</sup>, SCF16, SFH15, SIKR17, TL17, TCBI11, UWL12a, UWL12b, UPT<sup>+13</sup>, VCP<sup>+14</sup>, VHPP19, WS15, WZK<sup>+15</sup>, WMW<sup>+12</sup>]. **Sturgeons** [HGG<sup>+16</sup>]. **Sub** [WRP<sup>+12</sup>]. **Sub-Arctic** [WRP<sup>+12</sup>]. **Subadult** [BNS<sup>+14</sup>, SIKR17]. **Subarctic** [DGMC17]. **Subdivision** [Spi12].

**Subestuary** [WSK11]. **Subpopulations** [WLLCF16]. **Subsequent** [AIC13].  
**Subsidies** [CBM15, Lev18]. **Substrate** [FPR<sup>+</sup>18, NAW12]. **Subtropical**  
 [BR14, NW14, PSGB13]. **Subyearling**  
 [FMS10, GCG<sup>+</sup>18, HBB17, RT14, SCL<sup>+</sup>13, TBL<sup>+</sup>17, TES14]. **Subyearlings**  
 [Ano11a, CTPM13, TC11]. **Success** [ABM17, BCF<sup>+</sup>11, BMB<sup>+</sup>10, FPM15,  
 GBF12, HM17, JCS14, KMS<sup>+</sup>18, KKM11, LSPB11, LCO<sup>+</sup>15, MWG18,  
 OSDT18, PGW<sup>+</sup>11, RHW15, RAB<sup>+</sup>18, RHR<sup>+</sup>15, SKP<sup>+</sup>10, TM19].  
**Successful** [EBF<sup>+</sup>14]. **Sucker**  
 [CGB19, DCM10, ESD<sup>+</sup>17, KWCI10, PFG19, SBC17, WvPC12]. **Suckers**  
 [CTN11, DSAM12, FWBT17, ZBW10]. **Suggest** [LV14, RA10]. **Suitability**  
 [ACWIK13, DF12, DA16, FJP18, FKH15, Lov11, MKA10, TFM<sup>+</sup>18].  
**Suitable** [BBM<sup>+</sup>14, JZS<sup>+</sup>19, TRW10]. **Sulfated** [YSW<sup>+</sup>14]. **Summer**  
 [BL11, CMM<sup>+</sup>17, CM10, CKFQ11, DG13, GCM12, HSM<sup>+</sup>10, HMTc12,  
 MBM10, RJWK10, RJH12, TRW10, UACS<sup>+</sup>19, WAD<sup>+</sup>17, BFH14].  
**Summer-Resident** [CMM<sup>+</sup>17]. **Sunderland** [HCD<sup>+</sup>14]. **Sunfish**  
 [THNG14]. **Superimposition** [Dud19]. **Superior**  
 [AHS<sup>+</sup>11b, BHG<sup>+</sup>10, GSR<sup>+</sup>11, GSJS17, GS13, MBZ<sup>+</sup>14, RMM11, SJMG14].  
**Supersaturation** [SDOK11]. **Supplementation** [BCF<sup>+</sup>11, PT10].  
**Supplemented** [DML<sup>+</sup>10]. **Supply** [SHCB16]. **Support** [MNM<sup>+</sup>17, TH15].  
**Supports** [BWHF17, HB18, HUSST19]. **Surf** [SGP16]. **Surface** [RGM<sup>+</sup>11].  
**Surgeon** [DBC<sup>+</sup>10]. **Surgical** [BHC<sup>+</sup>13, DBB<sup>+</sup>12, SHH<sup>+</sup>19]. **Surgically**  
 [DBC<sup>+</sup>10, FMS10, KHF<sup>+</sup>18, RPVS15, SNP<sup>+</sup>10, TPA14]. **Surrogate**  
 [AUDL18]. **Surrogates** [SF17]. **Survey**  
 [AJFO10, AJF10, AJF13a, AJF13b, BLCB13, DKL<sup>+</sup>17, GSD<sup>+</sup>12, HLB<sup>+</sup>16,  
 KTE<sup>+</sup>14, MAS10, Nel14b, RL14, TF13, WF11]. **Surveyed** [WTB10].  
**Surveying** [FDSB18]. **Surveys**  
 [BH11, DCBKR14, GKG<sup>+</sup>19, HCD10, MK16, RSB14, RG15, SC13]. **Survival**  
 [ACK17, AHS10, BB15, BJA<sup>+</sup>13, BMC<sup>+</sup>13, BHS<sup>+</sup>17, Bel12, BRGR10,  
 CHR<sup>+</sup>17, CHW<sup>+</sup>13, CBSB15, CT12, CDB10, CNM<sup>+</sup>18, CSD<sup>+</sup>14, DDMR10,  
 DMW<sup>+</sup>19, DMRK14, DM11b, EHC<sup>+</sup>14, EWSR16, FBF10, FBWZ19,  
 FWB<sup>+</sup>15, FKF<sup>+</sup>19b, FMS10, GDM<sup>+</sup>10, GA17, GSA<sup>+</sup>19, GNMM12,  
 HMTc12, HNK<sup>+</sup>12, HJM<sup>+</sup>12, HRR<sup>+</sup>11, HAR18, HKZ11, HLK11, HER<sup>+</sup>11,  
 IBH12, JRP12, JSW<sup>+</sup>15, KGW14, KM14, KMS<sup>+</sup>18, KHF<sup>+</sup>18, KKM11,  
 KYK17, KRM11, LSV<sup>+</sup>13, MYS<sup>+</sup>11, MCC<sup>+</sup>12, MHE12, Mic10, MBT10,  
 NBC15, OPHD18, PBG<sup>+</sup>11, PKL<sup>+</sup>11, PBC12, PHFN17, RH14, RPSB14,  
 RB13, RBF14, RSG12, RBH<sup>+</sup>12, RLL<sup>+</sup>19, RAR<sup>+</sup>16, SDW<sup>+</sup>17a, SW11,  
 SWB<sup>+</sup>16, SAS17, SS15b, SVKK18, SNI<sup>+</sup>13, SHP<sup>+</sup>19, SDW17b, SJ14, TM19,  
 WEW12, WDW11, WAD<sup>+</sup>17, WCD<sup>+</sup>11, ZBW10, ZKB<sup>+</sup>15]. **Susceptibility**  
 [HERC12, MBPA13]. **Susitna** [FRM18]. **Suspended** [BB15]. **Sustainability**  
 [MCO<sup>+</sup>10]. **Sustainable** [Smi13]. **Sustaining** [MNM<sup>+</sup>17]. **Sutton** [Ryp13].  
**Suture** [BHC<sup>+</sup>13, BDBE11, DBC<sup>+</sup>10, IBH12, PBG<sup>+</sup>11]. **Sutures**  
 [DBB<sup>+</sup>12, JLA17]. **Suturing** [DBB<sup>+</sup>12]. **Suwannee** [PA10]. **Swimming**  
 [BMB<sup>+</sup>10, CJM<sup>+</sup>15, Cla16, CHW<sup>+</sup>13, DMR<sup>+</sup>10, FCG<sup>+</sup>17, FMJ11, JBC<sup>+</sup>12,  
 KCJ<sup>+</sup>15, LHHL17, MGW13, PPF<sup>+</sup>13, RSG12, RGP17, SDW<sup>+</sup>17a].

**Swordfish** [LKP<sup>+</sup>13]. **Sympatric** [BGOQ13, CHT13, CPP<sup>+</sup>14, DW16, RB18, SE11]. **Symposium** [Chi13, Chr14, Nel14a]. **Synchronous** [ZKH12]. **Synchrony** [CM11b, JRBC13, MS13]. **Syndromes** [NPW12]. **Synthesis** [CAB11, HP13]. **Synthetic** [TFM<sup>+</sup>18, BDM<sup>+</sup>10]. **System** [ARB<sup>+</sup>18, BR11, DKL<sup>+</sup>17, DHRQ10, FPR<sup>+</sup>18, FPM15, GWB<sup>+</sup>15, GBW16, HKW<sup>+</sup>14, HLR<sup>+</sup>12, KM10, MPM<sup>+</sup>14, MAN<sup>+</sup>12, OSDT18, Pet15, Rey16, SZGS12, WS15, Yas16, AFHF12, WZK<sup>+</sup>15]. **Systematically** [BSM13]. **Systems** [KM10, LRH12, RPC14, SDW15]. **Systemwide** [EHR<sup>+</sup>12].

**T** [Gid14, LDA<sup>+</sup>13, Ryp13]. **Tactics** [CVB14]. **Tadpole** [ACK17]. **Tadpoles** [BSHK<sup>+</sup>11]. **Tag** [DM11b, DJ17, FMS10, HEC<sup>+</sup>15, HRG12, IBH12, MBP<sup>+</sup>11, MGW13, VB14, WvPC12, Wei10]. **Tag-Induced** [MBP<sup>+</sup>11]. **Tagged** [BDBE11, DEP<sup>+</sup>18, HJM<sup>+</sup>12, HLK11, JCK<sup>+</sup>12, KCM14, KHD<sup>+</sup>14, MH11, MCC<sup>+</sup>12, NBC15, REN17, SNI<sup>+</sup>13, SCL<sup>+</sup>13]. **Tagging** [AUDL18, AIC13, Chi13, CHW<sup>+</sup>13, DEP<sup>+</sup>18, EMS<sup>+</sup>14, EB16, HSA<sup>+</sup>16, LEM<sup>+</sup>11, MSH<sup>+</sup>14, RMDA11, dHST13]. **Tags** [CHR<sup>+</sup>17, Cla16, DM11b, EHR<sup>+</sup>12, EPT<sup>+</sup>16, HB17, HRG12, JDS15, KHF<sup>+</sup>18, NB12, SDW<sup>+</sup>17a, SNP<sup>+</sup>10, VSC15]. **Tail** [MBBM10]. **Tail-Beat** [MBBM10]. **Tailwater** [IB14, KYK17]. **Tailwaters** [FM17]. **Taimen** [FSRK11]. **Taiwanese** [CYW<sup>+</sup>19]. **Taken** [AJF13b, BFM10]. **Taking** [NPW12]. **Tale** [RBK<sup>+</sup>11]. **Tales** [RCD<sup>+</sup>11]. **Tampa** [Gre12]. **Tandem** [SL16]. **Tapeworm** [CCL<sup>+</sup>19]. **TaqMan** [BSSM12]. **Targeted** [FWSW<sup>+</sup>15]. **Tautogs** [MT19]. **Taxonomy** [Pag19]. **Technical** [FHCSN12, Yas16]. **Technique** [DBB<sup>+</sup>12, MCW<sup>+</sup>14, RNG<sup>+</sup>13]. **Techniques** [ESD<sup>+</sup>17, ELC13, Eva17, FH12, GDWD10, HOGO10, Mat18, Ryp13]. **Technology** [GIW<sup>+</sup>13, Chi13]. **Telemetry** [BFH14, FBH<sup>+</sup>13, GZB12, HBB13, MCSF14, PSH<sup>+</sup>19, TL17, TS13]. **Telemetry-Based** [FBH<sup>+</sup>13]. **Teleost** [SPH19]. **Teleostei** [HOWS10]. **Teleosts** [PSM12]. **Telephone** [AJFO10]. **Temperate** [BB10b, MFH13, RB12, RW11]. **Temperature** [AAD14, BS18, BCRP13, BMM10, BRK<sup>+</sup>18, CM10, CDB10, DBC<sup>+</sup>10, DBHV14, FBJR11, FBWT19, HHJH17, HAR18, HK12, HHES13, HD16, HWHF14, HMP18, KGW14, KWCI10, LJHL10, MRPW19, MT19, MBM10, NB12, PPH15, PHHM12, PPMJ14, PM15, RB13, RBF14, RT14, SW11, TASC17, TVL<sup>+</sup>12, UK14, VSC15, WMS15, WHP14, YCB<sup>+</sup>11, YHWH10]. **Temperature-Dependent** [HD16, PPH15, PM15]. **Temperature-Related** [HK12]. **Temperatures** [GDM<sup>+</sup>10, GDM<sup>+</sup>11, HP14, KWCI10, MRPW19, MBH12, RJWK10, TNS<sup>+</sup>14, VJGV11, ZBC<sup>+</sup>13]. **Temporal** [ACRAM11, BSC<sup>+</sup>10, BR11, CBM15, CHS<sup>+</sup>11, DHRQ10, DCM10, EFC<sup>+</sup>11, EPT<sup>+</sup>16, FM17, GWG<sup>+</sup>19, IWB<sup>+</sup>13, MHF12, OWS16, PZS17, PGVG15, RRG<sup>+</sup>17, SJT<sup>+</sup>16, SMJ14, SA14, SWC13, SBMH12, SJFF15, SS15c, SMMK12, VWS13, WMV<sup>+</sup>16, WR14, WBD17, WBD14]. **Tendency** [CEFQ11]. **Tennessee** [IB14, PSB16]. **Term**

[AGH18, BGB<sup>+16</sup>, CHB<sup>+12</sup>, DSM18, FWB<sup>+15</sup>, FH12, GP12, HSSS16, IHTF11, KM10, KRM13, MBP<sup>+11</sup>, MLC13, NDC<sup>+14</sup>, NR16, OGM<sup>+15</sup>, PPJ15, RA10, SWB<sup>+16</sup>, SMH<sup>+11</sup>, VB14, WSK19, ZBHW16, DEP<sup>+18</sup>]. **Terminal** [GGC17]. **Tern** [ARL<sup>+12</sup>, MGWP10]. **Terns** [SCL<sup>+13</sup>]. **Tessellated** [KLS17]. **Test** [CJL<sup>+14</sup>, GS16, JPSM12, WHC<sup>+10</sup>]. **Testing** [MAN<sup>+12</sup>]. **Texan** [BKC<sup>+19</sup>]. **Texas** [BSD13, DSM18, LCHB<sup>+18</sup>, MBEvdB<sup>+10</sup>, OWS16, PTWK11, RHKD12, RMW16, VFFP13]. **Their** [AGKW12, BHD<sup>+16</sup>, BP10, BDM<sup>+10</sup>, CZK<sup>+17</sup>, CHLN15, CNM<sup>+18</sup>, GS13, MOS13, PF11b, Rey16, Shi13, TJB<sup>+14</sup>, AS12, BNS<sup>+16</sup>, CKS<sup>+19</sup>, DW15, MBBM10]. **There** [BNTT17, CTS<sup>+15</sup>]. **Thermal** [ACWIK13, AMBM12, BHD<sup>+16</sup>, BHP<sup>+15</sup>, BCR13, CRC<sup>+16</sup>, DMRK14, HR15, HP14, HAR18, KH13, MRPW19, MFAS<sup>+12</sup>, MWSS13, PHHM12, PCC<sup>+13</sup>, RZW<sup>+12</sup>, Str10, UK14, ZBC<sup>+13</sup>]. **Thiamine** [FBB<sup>+13</sup>]. **third** [Ryp13]. **Threadfin** [PNMH<sup>+12</sup>]. **Threatened** [BSSM12, BMC<sup>+13</sup>, CKC<sup>+12</sup>, DSRA12, DYWY17, GCM12, NDP16]. **Threatens** [Arc16]. **Three** [CT16, Eval7, FMJ11, FWSW<sup>+15</sup>, HKR18, HP14, HWN15, OWP<sup>+17</sup>, PCC<sup>+13</sup>, SF17, SHCB16, PM10]. **Three-Pass** [HKR18]. **Threespine** [HBHS15]. **Thresher** [GN13, NG13]. **Thresholds** [Sto10]. **Throughout** [SWP<sup>+18</sup>, DW15]. **Throw** [CGL<sup>+11</sup>]. **Tibet** [LCO<sup>+15</sup>]. **Tidal** [BSCA17, DK18, DEW<sup>+14</sup>, DWE<sup>+19</sup>, JPRS10, Lov11, MBH16, RDR<sup>+10</sup>, RLL<sup>+19</sup>, SJT<sup>+16</sup>, TBTS12, WF11]. **Tides** [PBB<sup>+15</sup>]. **Tiger** [CABNQ<sup>+13</sup>, SHC<sup>+16</sup>, WEW12]. **Tilapia** [HARL18, HAR18, VSB<sup>+14</sup>]. **Time** [HJM<sup>+12</sup>, HPG10, KGC<sup>+12</sup>, KCS<sup>+19</sup>, OWP<sup>+17</sup>, RFM<sup>+15</sup>, WMV<sup>+16</sup>, vPWT12]. **Time-Varying** [vPWT12]. **Times** [PHFN17]. **Timing** [BQF<sup>+19</sup>, BA13, CHMG<sup>+18</sup>, CC16, CTS<sup>+15</sup>, CYP11, EMS<sup>+14</sup>, HN11, JSW<sup>+15</sup>, LSSYL10, MM17, MSS<sup>+11</sup>, MDT10, OMA13, PW10a, RBH<sup>+12</sup>, SHM<sup>+12</sup>, SNC<sup>+10</sup>, TRLG13, TL17, UPT<sup>+13</sup>, VJGV11, WAD<sup>+17</sup>, WHP14]. **Timings** [SCC17]. **Tissue** [OPS<sup>+14</sup>, SARC13]. **Tissues** [HNV<sup>+18</sup>]. **Toad** [BSHK<sup>+11</sup>]. **Togiak** [CTS<sup>+15</sup>]. **Tolerance** [AAD14, BCR13, DMW<sup>+19</sup>, DMRK14, HAR18, KWCI10, KU12, MRPW19, MFAS<sup>+12</sup>, RZW<sup>+12</sup>, SPH19, UK14, WCD<sup>+11</sup>]. **Tolerances** [ZBC<sup>+13</sup>]. **Too** [WB15b]. **Tool** [BR14, CCL<sup>+19</sup>, CEM<sup>+19</sup>, DAA<sup>+16</sup>, PSB16, SWH<sup>+17</sup>]. **Top** [MAH<sup>+12</sup>, SFF<sup>+10</sup>]. **Top-** [SFF<sup>+10</sup>]. **Topographic** [WDHW14]. **Total** [CGA13, GvdHBC12, HGP<sup>+17</sup>, THGA15]. **Total-Body** [GvdHBC12]. **Tournaments** [LSV<sup>+13</sup>, VWS13]. **Towboat** [KMM<sup>+11</sup>]. **Towed** [GWG<sup>+19</sup>]. **Toxicity** [BSHK<sup>+11</sup>]. **Tracers** [AW19]. **Tracking** [AW19, ELC13]. **Trade** [BGV11, KRRW18, QSVD11]. **Trade-off** [QSVD11]. **Trade-Offs** [BGV11, KRRW18]. **Traditional** [WCN<sup>+19</sup>]. **Training** [SCF16]. **Trait** [BFH14]. **Traits** [BEMF11, DBHV14, DWN<sup>+15</sup>, LCO<sup>+15</sup>, PK11]. **Trajectories** [BCRP13]. **Transactions** [Ano13b, Ano14b, Ano16, Ano17b, Ano19i, SRMB<sup>+15</sup>]. **Transformation** [BSC<sup>+10</sup>]. **Transgenerational** [SSH11b]. **Transgenesis** [GWOD18]. **Transgenic** [HKP11, HLH14, PK11]. **Transient** [TAM15]. **Transition**

[CHW<sup>+13</sup>, KWCI10]. **Translocated** [PRW<sup>+10</sup>]. **Translocation** [SPH<sup>+15</sup>, SPCJ11]. **Translocations** [FPM13, GBF12]. **Transmitter** [IBH12, LBD<sup>+16</sup>, PBG<sup>+11</sup>]. **Transmitters** [DBC<sup>+10</sup>, DBB<sup>+12</sup>, JBC<sup>+12</sup>, LBD<sup>+16</sup>, MRB<sup>+18</sup>, PPF<sup>+13</sup>, RPVS15, SHH<sup>+19</sup>, TPA14]. **Transplanted** [WAR12]. **Transponder** [CHR<sup>+17</sup>, Cla16, DM11b, ELC13, EHR<sup>+12</sup>, EPT<sup>+16</sup>, HLK11, SDW<sup>+17a</sup>]. **Transponders** [HB17, MCC<sup>+12</sup>]. **Transport** [JPLS13, MKH10]. **Transportation** [BWD<sup>+17</sup>, PB15]. **Transverse** [BAZ12, DMCO11]. **Trapping** [SFF<sup>+10</sup>, WBR11]. **Traps** [CGL<sup>+11</sup>, RC16, RSB14]. **Travel** [HJM<sup>+12</sup>]. **Trawl** [BMC<sup>+13</sup>, DKL<sup>+17</sup>]. **Trawls** [KS11, PNMH<sup>+12</sup>]. **Treatments** [JADJ<sup>+14</sup>]. **Trematodes** [PM10]. **Trend** [HKR18]. **Trends** [ACRA10, AGJ11, Arc16, Bea10, CZK<sup>+17</sup>, DSM18, KQ11, KYK17, LRR<sup>+15</sup>, MS13, OI16, PM19, RA10, SWB<sup>+16</sup>, SJFF15]. **Trial** [AUDL18]. **Tributaries** [BBG<sup>+18</sup>, CGM15, CGB19, IRJ11, LPM<sup>+17</sup>, MSW<sup>+14</sup>, OI16, PDM<sup>+14</sup>, REN17, TF13, WF11]. **Tributary** [BQHR17, CBSB15, DF11, DWG14, FWBT17, HCZ13, HCZG15, HPHB10, KRM11, MM17, RMM11, RAR<sup>+16</sup>, SPH<sup>+15</sup>, vVO10]. **Trifluoromethyl** [CHB<sup>+12</sup>]. **Triggerfish** [HAV<sup>+19</sup>, KSSK<sup>+17</sup>, SS11]. **Trinidad** [JM14]. **Trinity** [BSD13, PHM17]. **Trip** [AJF10]. **Trophic** [BK11, BL11, CORM13, DWE<sup>+18</sup>, FRBA13, FRA13, FKF<sup>+19a</sup>, HBB17, HB18, KSB16, LBBW17, LB15, MHF12, RCM<sup>+19</sup>, RMM11, RB18, SRP<sup>+18</sup>, SHCB16, TRHHOGSJ14, THKG10, WB15b, WHC<sup>+10</sup>]. **Trophy** [BGB<sup>+16</sup>]. **Tropical** [HTH<sup>+17</sup>, PNMH<sup>+12</sup>]. **Trout** [AHS<sup>+11b</sup>, ACMM<sup>+15</sup>, ACDL19, AMM<sup>+16</sup>, AGKW12, ADS<sup>+11</sup>, BBGB15, BSGB17, BGLP19, BP13, BBAK19, BB10a, BHD<sup>+16</sup>, BS13, BAKT12, BRG19, BRGR10, BGOQ13, BMP<sup>+17</sup>, CKM<sup>+11</sup>, CR10, CM10, CHT13, CML19, CRH10, DFB15, DW16, DW15, DH11, DZW<sup>+12</sup>, DWN<sup>+15</sup>, DMR<sup>+10</sup>, FWB<sup>+15</sup>, FKF<sup>+19a</sup>, FM17, FKF<sup>+19b</sup>, FFY116, FH17, GSR<sup>+11</sup>, GSJS17, GS13, HH11, HNK<sup>+12</sup>, HBB13, HBS13, HP14, HB18, HNV<sup>+18</sup>, HK12, HSM12, HS13, HCS<sup>+16</sup>, HCNL10, HMP18, ILH<sup>+18</sup>, IBH12, JC16, JLA17, JK17, JJNB17, JMM<sup>+11</sup>, KLR<sup>+15</sup>, KHK<sup>+15</sup>, KBG<sup>+18</sup>, KMS<sup>+18</sup>, KWS14, KRRW18, KKM11, KYK17, KCMS11, KRM13, LME16, LRW13, LB15, MCW<sup>+14</sup>, MGP11, MSWS10, MFAS<sup>+12</sup>, MWSS13, MSW<sup>+10</sup>, MPM<sup>+14</sup>, MWC<sup>+13</sup>, MHE12, MKHC17, MDT10, Mil19, Mit16, MWKS13, MDD<sup>+16</sup>, MBZ<sup>+14</sup>, NB12, NB13, NDP16, OS11, ODG<sup>+11</sup>, Pag19, PB15]. **Trout** [PRW<sup>+10</sup>, PGJ11, PT10, PB17, PHHM12, PPC13, PPW<sup>+14</sup>, PPJ15, PPP<sup>+13</sup>, Qui19, RB13, RBF14, RMM11, RJWK10, RL19, SPM<sup>+17</sup>, SK11, SBO12, SLM10, SJMG14, SHR<sup>+12</sup>, SDW17b, TD13, TPBB14, THKG10, TNS<sup>+14</sup>, UACS<sup>+19</sup>, WDDS13, WMS15, WBR11, WDHW14, WKS<sup>+19</sup>, WK13, WCD<sup>+11</sup>, WBH10, WAR12, YCB<sup>+11</sup>, YHWH10, ZTC12, ZBC<sup>+13</sup>]. **True** [HLK11]. **Tsangpo** [LCO<sup>+15</sup>]. **Tubes** [BN16]. **Tui** [GLM<sup>+15</sup>]. **Tuna** [AGH18, Gol18, RBE<sup>+10</sup>]. **Turbid** [BES15]. **Turbidity** [CSDW10, HBS13, HDF12, KLS17, MSD<sup>+19</sup>, MWG18, Sto10, YCB<sup>+11</sup>]. **Turbine** [BSCA17, BDBE11, BCG<sup>+12</sup>, EWSR16]. **Turnover** [RW11].

**Twelve** [HNV<sup>+18</sup>]. **Twenty** [MMY12]. **Twist** [WBW<sup>+13</sup>]. **Two** [AHS10, BSC<sup>+10</sup>, CGM15, DSHG10, DM11a, FWD10, FBWZ19, FHCSN12, FBH<sup>+13</sup>, GKBG12, HBC15, HRB<sup>+16</sup>, HS13, IRJ11, KBG<sup>+18</sup>, KWS14, KCZH14, LRH12, LPM<sup>+17</sup>, MCD17, MSD18, PB15, PPC13, PDM<sup>+14</sup>, RBH<sup>+12</sup>, RBK<sup>+11</sup>, SGP16, SDW15, SSM16, STK12, TBL<sup>+17</sup>, THGA15, WDDS13, WBH10, YSC10, LRR<sup>+15</sup>]. **Two-Dimensional** [GKBG12]. **Two-Species** [WDDS13]. **Two-Vector** [YSC10]. **Type** [CVB14, DBC<sup>+10</sup>, EFC<sup>+11</sup>, HH11, HKP11, LBC10, PW10b, PNM<sup>+10</sup>, PK11, RR13]. **Types** [SHM<sup>+12</sup>, SAF<sup>+19</sup>].

**U.S** [KCS<sup>+19</sup>]. **U.S.**

[DF11, FJP18, HAV<sup>+19</sup>, ILH<sup>+18</sup>, LKS<sup>+12</sup>, LAR16, SDW15]. **UK** [Fle16]. **Ultralight** [CCB16]. **Ultraoligotrophic** [JBV13]. **Ultrasonic** [HBB13, IBH12, TL17, TS13]. **Umpqua** [OMA13]. **Uncertainty** [HRG12, PMN19, RJ11]. **Undergoing** [HSSS16]. **Underlying** [BMR<sup>+12</sup>]. **Understanding** [Goo15]. **Unfished** [HVD<sup>+16</sup>]. **Unintended** [MK10]. **Unique** [HB18]. **Unit** [HAG13, PRW<sup>+10</sup>]. **United** [Ada18, ABS<sup>+11</sup>, DW15, MAS10, PPF<sup>+16</sup>, PKP<sup>+17</sup>, ZHWR11, ADS<sup>+11</sup>, FA10, HLH14, HTH<sup>+17</sup>]. **Units** [ADS<sup>+11</sup>]. **University** [Cha13, Gid14, Pra14, Qui16, Smi13, Var13]. **unlike** [HCR14]. **Unmarked** [RGM<sup>+11</sup>]. **Unobstructed** [RPC14]. **Unregulated** [HK12]. **Unsampled** [WBWSK12]. **Unscreened** [MCH<sup>+13</sup>]. **Unstratified** [RJWK10]. **Untagged** [SMO<sup>+14</sup>]. **Unusual** [MPM<sup>+14</sup>, WMV<sup>+16</sup>]. **upon** [AS12, HH11, RCC<sup>+13</sup>]. **Upper** [BCR13, KWCI10, KBC<sup>+18</sup>, RZW<sup>+12</sup>, Str10, ZBC<sup>+13</sup>, ACRA10, BHD<sup>+16</sup>, CHR<sup>+17</sup>, DWGF11, EFC<sup>+11</sup>, EBF<sup>+14</sup>, EPC<sup>+19</sup>, FWBT17, JRP12, KMM<sup>+11</sup>, KR18, KCMS11, MC14, PGJ11, PBM<sup>+12</sup>, RKEB13a, RKEB13b, SK11, SS13, SLM10, VFFP13, WDR16, ZBW10, ZZMC13]. **Upriver** [DHRQ10, LUC<sup>+15</sup>]. **Ups** [GS13]. **Upstate** [GBW16]. **Upstream** [GDST16, HSM12, JPSM12, MCW<sup>+14</sup>, PM14, PPP<sup>+13</sup>, RO16, WZC<sup>+14</sup>, WL13]. **Uptake** [TL15]. **Urban** [BMOF16, GWB<sup>+15</sup>, HSSS16, LLWW19, TBL<sup>+17</sup>]. **Urge** [SZZ10]. **USA** [BGLP19, BB15, CGM15, EPR<sup>+18</sup>, FSW10, FP19, HNV<sup>+18</sup>, HHES13, KTE<sup>+14</sup>, KSSK<sup>+17</sup>, KU12, KPZ<sup>+12</sup>, PAB<sup>+11</sup>, PSH<sup>+19</sup>, TT17, UK14, Yas16]. **Usage** [TCBI11]. **Use** [BBZGB15, BAKT12, BDM<sup>+10</sup>, BSD13, BW10, CGL<sup>+11</sup>, CHLN15, CBM15, DG13, DWGF11, DWG14, DW16, DMW<sup>+19</sup>, DCM10, ESD<sup>+17</sup>, ELC13, FJP18, FFYI16, FWBT17, GvdHBC12, GGC17, GCM12, GKG<sup>+19</sup>, GZB12, GNMM12, HPF<sup>+16</sup>, HR15, HJS<sup>+16</sup>, HNRB19, HKKS14, HK12, HGG<sup>+16</sup>, HDH16, HPSA16, KST<sup>+12</sup>, LMD<sup>+17</sup>, LKP<sup>+13</sup>, LSD<sup>+14</sup>, LSSYL10, MM17, MWKS13, MBBM10, PBW16, PMF<sup>+10</sup>, PHG<sup>+16</sup>, PTG<sup>+10</sup>, PAG11, PL13, RA10, RMM11, RDR<sup>+10</sup>, SHM<sup>+12</sup>, SMO<sup>+14</sup>, SR15, SMN<sup>+10</sup>, SCB15, TD13, TS13, TBC<sup>+13</sup>, WZCT12, WSQ<sup>+15</sup>, WZK<sup>+15</sup>]. **Useable** [HGS<sup>+16</sup>]. **Used** [HBA<sup>+15</sup>, LS10a, PCC<sup>+13</sup>]. **Useful** [EPS<sup>+15</sup>]. **Using** [AGH18, ACRA10, AW19, ASP<sup>+18</sup>, Ano11a, BSSM12, BC12, BSS18, BYM19,



BEMF11, CKC<sup>+12</sup>, CCL<sup>+19</sup>, CC16, CPP<sup>+14</sup>, CHS<sup>+11</sup>, DFB15, DMR<sup>+10</sup>, FDWG13, GCM12, GDWD10, Gre12, GA10, HLH14, HSA<sup>+16</sup>, HOWS10, HPHB10, IWB<sup>+13</sup>, JJC12, LFB<sup>+15</sup>, MAS10, MJHP18, MLS<sup>+13</sup>, MM10, MLBS<sup>+13</sup>, OSS<sup>+17</sup>, PSM12, PM13, PPH15, PGWS15, PCT<sup>+12</sup>, PMN19, PVJH15, PHFN17, RPSB14, RMMGPB16, SR10, SDBB12, SBC<sup>+16</sup>, STZ13, SSH11b, SL16, SJFF15, TPLA16, TC11, VIW<sup>+17</sup>, VBJS10, WDDS13, WBR11, WCN<sup>+19</sup>, WCQD18, WMG<sup>+14</sup>, BFH14, CBSB15, HBC15, HS17, KCM14, MCSF14, OSA<sup>+17</sup>, TL14]. **Utah** [DF14, GP12, KWCI10, PFG19, ZBW10]. **Utility** [BSR12, FA10, ZSVK13].

**V** [Ryp13]. **Validates** [MLC13]. **Validating** [PM13, SWH<sup>+17</sup>]. **Validation** [DMHO12, DA16, HOGO10, SARC13]. **Valley** [AM13, SCC17, SMS<sup>+12</sup>].

**Valuable** [KSB16]. **Values** [OPS<sup>+14</sup>]. **Varden** [BCS19, WTB10].

#### **Variability**

[ACRAM11, AJF13b, BSC<sup>+10</sup>, BS18, CPS<sup>+15</sup>, CTK<sup>+17</sup>, DSAM12, MHF12, MSB<sup>+18</sup>, RL19, SJT<sup>+16</sup>, TA13, TRHHOGSJ14, WAW11, WDHW14].

**Variable** [BEWM10, GDST16, HBTT11, RJWK10]. **Variables**

[CM11a, OPHD18, SM13a, WTB10]. **Variance** [OSDT18, STZ13, VIW<sup>+17</sup>].

**Variation** [AS12, AMBM12, BRA14, BR11, CTN11, CKM<sup>+11</sup>, CMM<sup>+17</sup>, CBM15, DKD<sup>+15</sup>, DSRA12, EFC<sup>+11</sup>, FDWG13, GSVS<sup>+10</sup>, HGBE16, HLR<sup>+12</sup>, HLB14, HN13, IWB<sup>+13</sup>, KHK<sup>+15</sup>, LHS<sup>+13</sup>, LYX<sup>+10</sup>, MSBT10, MT19, MSWS10, MFAS<sup>+12</sup>, MVK12, MSWD15, MSS<sup>+17</sup>, MK15, OWS16, PW10a, PJ11, RL19, SMJ14, SJ11, SA14, SLG<sup>+14</sup>, SGB13, TES14, VWS13, VSBC13, WKS<sup>+19</sup>, WB13b, Whi12, WBD17, WBD14]. **Various** [SDSB18].

**Vary** [SMM13]. **Varying** [BHLK10, LDLH15, MBH12, VB14, vPWT12].

**Vector** [YSC10]. **Vectors** [KKB<sup>+10</sup>]. **Vegetated** [CGL<sup>+11</sup>]. **Vegetation**

[EWW13]. **Velocities** [PB15]. **Velocity**

[GGC17, JCK<sup>+12</sup>, MYS<sup>+11</sup>, MJH17]. **Ventilation** [RHR<sup>+15</sup>]. **Verification**

[LS10a]. **Vermilion** [JPHK10, MBPP18]. **Vermont** [BBGB15, PPD16].

**Versus** [HMO14, CJL<sup>+14</sup>, CNM<sup>+18</sup>, ELC13, GDG<sup>+15</sup>, GDPW10, LMPvdH18, PF11a, PCC<sup>+13</sup>, Poe14, RKEB13b, SMO<sup>+14</sup>, SGP16, WF19].

**Vertical** [AHS<sup>+11b</sup>, GKG<sup>+19</sup>, GZB12, GSD<sup>+12</sup>, LKP<sup>+13</sup>, SFF<sup>+10</sup>]. **via**

[GDWD10, GSVS<sup>+10</sup>, JPLS13, MKHC17]. **Viability**

[JPF13, KPS<sup>+19</sup>, SVKK18]. **Viable** [JLV<sup>+10</sup>]. **Vicariance** [BJC12].

**Victoria** [Ber13]. **Video** [DKL<sup>+17</sup>, MAS10]. **Viral** [EFC<sup>+11</sup>]. **Virgin**

[CCKF11]. **Virginia**

[BMGL12, BGV<sup>+12</sup>, KHW<sup>+14</sup>, OI16, PCFH17, TNS<sup>+14</sup>]. **Virus** [EFC<sup>+11</sup>].

**Visible** [BHC<sup>+18</sup>]. **Visual** [HLB<sup>+16</sup>, HBB13, HBS13, HB17]. **Volcanism**

[CKM<sup>+11</sup>]. **volume** [Ano11a]. **Vondracek** [LDA<sup>+13</sup>]. **Vulnerability**

[BNW<sup>+12</sup>, SPC<sup>+18</sup>, SCL<sup>+13</sup>, TNS<sup>+14</sup>, WMS15]. **Vulnerable**

[HKP11, OMA13].

**Wadeable** [HJS<sup>+16</sup>, HCD10, KMKS13]. **Wahoos** [RBE<sup>+10</sup>]. **Walk**

[SDBB12]. **Walker** [Ber13, BRGR10]. **Walleye**

[BJC12, FPR<sup>+18</sup>, HRHS16, IHTF11, JJNB17, LSV<sup>+13</sup>, MHF12, RBK<sup>+11</sup>, RAR<sup>+16</sup>, SS18a, SNC<sup>+10</sup>, SBMH12, WSI14, WF19]. **Walleyes** [GKG<sup>+19</sup>, HDBS14, KRM13, MSH<sup>+14</sup>, PZS17, RB12, VB14]. **Walter** [Cha13]. **Warm** [SFLH14]. **Warming** [ILH<sup>+18</sup>]. **Washington** [BRS<sup>+12</sup>, Yas16, ACDL19, BLB<sup>+13</sup>, CKFQ11, HRB<sup>+16</sup>, HGB<sup>+16</sup>, LHS<sup>+13</sup>, MPM<sup>+14</sup>, PT10, RBH<sup>+12</sup>, SBDW11, SE11, SHCB16, TBL<sup>+17</sup>, TB14, TW14, WAD<sup>+17</sup>, WBM<sup>+17</sup>, ZKB<sup>+15</sup>]. **Water** [BPS11, BBZGB15, BRGR10, BMM10, BRK<sup>+18</sup>, CHT13, DBC<sup>+10</sup>, GIW<sup>+13</sup>, LJHL10, LHHL17, LBBW17, MRPW19, MBM10, MBH12, MJH17, MCH<sup>+13</sup>, MCP<sup>+15</sup>, PB15, RR13, RJWK10, RT14, SS15b, WMS15, WHP14, WSK19, YHWH10]. **Waterbird** [CML19]. **Waterfalls** [TPBB14]. **Waterfront** [AJF10]. **Waters** [Ada18, BBC<sup>+14a</sup>, BBC<sup>+14b</sup>, CKFQ11, HAV<sup>+19</sup>, KHD<sup>+14</sup>, OWS16, PDSP<sup>+11</sup>, RGM<sup>+11</sup>, TRHHOGSJ14]. **Watershed** [BBM<sup>+14</sup>, CHMG<sup>+18</sup>, CTS<sup>+15</sup>, CHS<sup>+11</sup>, Lov11, LN18, MK15, PT10, SLM10, SR15, SWS10, SBC17, SDW17b, TVL<sup>+12</sup>, TPBB14, WDR16, WHF<sup>+12</sup>, WSK19, WBM<sup>+17</sup>]. **Watersheds** [HRB<sup>+16</sup>, NRZ<sup>+13</sup>, RBH<sup>+12</sup>]. **Waterweed** [CBW<sup>+16</sup>]. **Way** [Yas16]. **Weakfish** [TT17]. **Weakly** [TB16]. **Weatherfish** [KU12, UK14]. **Web** [JMM<sup>+11</sup>, KPZ<sup>+12</sup>, LB15, ZRM<sup>+16</sup>]. **Webs** [HTR13]. **Weight** [FH12, HS17, RH14]. **Weighted** [Gre12, HGS<sup>+16</sup>]. **Weighted-Evidence** [Gre12]. **Weir** [LMPvdH18]. **West** [FRRCGA<sup>+15</sup>, HGBE16, Wei10]. **Western** [ASP<sup>+18</sup>, BDTD17, PHG<sup>+16</sup>, RG15, AHS<sup>+11b</sup>, AKM12, BGLP19, BAYS16, CM11a, DSB<sup>+18</sup>, GN13, LKP<sup>+13</sup>, NG13, NAWM14, RA10, SMY11, SAW<sup>+17</sup>, TBL<sup>+17</sup>]. **Westslope** [DZW<sup>+12</sup>, DWN<sup>+15</sup>, MDD<sup>+16</sup>, PPW<sup>+14</sup>, SK11]. **Wet** [CNM<sup>+18</sup>, RNG<sup>+13</sup>]. **Wetland** [KWW14, TH15]. **Wetlands** [DWE<sup>+19</sup>, RDR<sup>+10</sup>]. **Whirling** [EPS<sup>+15</sup>, PPMJ14]. **White** [BRA14, DM11b, DCM10, FRBA13, FRA13, Han11, JLV<sup>+10</sup>, JCS14, LAR16, MCSF14, MBH12, REN17, SMM13, SJ11, SWH<sup>+17</sup>, SDOK11, SPCJ11, VFB<sup>+16</sup>, SE11]. **Whitefish** [BGW<sup>+17</sup>, BCR13, BDM<sup>+10</sup>, FPR<sup>+18</sup>, GZB12, HLR<sup>+12</sup>, HML13, PDP12]. **Whitefishes** [TFM<sup>+18</sup>]. **Who** [SSH11b]. **Wide** [ASJ16]. **Width** [JK17]. **Wild** [BMF<sup>+15</sup>, BBGB15, CKC<sup>+12</sup>, CHO<sup>+15</sup>, CBAC19, CNM<sup>+18</sup>, CPS<sup>+15</sup>, DW16, DWE<sup>+18</sup>, EMS<sup>+14</sup>, GSVS<sup>+10</sup>, HKP11, JZBP16, JSW<sup>+15</sup>, KU12, MSWS10, MHE12, MWKS13, PK11, PPC13, QSJ12, RNG<sup>+13</sup>, SKP<sup>+10</sup>, TRMC15, TPLA16]. **Wild-Origin** [MSWS10]. **Wild-Type** [HKP11, PK11]. **Wildlife** [BCS19]. **Wiley** [Fle16]. **Wiley-Blackwell** [Fle16]. **Willamette** [JSW12, KBC<sup>+18</sup>, BNC<sup>+15</sup>, CFHE11, MSW<sup>+14</sup>, MFR15, VHJ<sup>+15</sup>]. **Willingness** [PW10b]. **Willow** [SS15b]. **Wind** [HUMG<sup>+18</sup>]. **Windowpane** [HW14]. **Winter** [AMM<sup>+16</sup>, AS17, BFK15, BNTT17, Bel12, DMW<sup>+19</sup>, FJP18, HR15, HPSA16, JADJ<sup>+14</sup>, KM14, LMD<sup>+17</sup>, Mic10, MWKS13, RJ11, SDW17b, TKC<sup>+12</sup>, WMG<sup>+14</sup>]. **Winter-Emerging** [AMM<sup>+16</sup>]. **Winter-Run** [LMD<sup>+17</sup>]. **Winterkill** [DMW<sup>+19</sup>]. **Winterkill-Prone** [DMW<sup>+19</sup>]. **Wire** [HB17, HSA<sup>+16</sup>, Wei10]. **Wisconsin** [SS18a, CSED10, SIKR17, WSI14]. **Within** [AJF13b, BQF<sup>+19</sup>, HCNL10, KP14, SYH<sup>+15</sup>, ACRA10, AFHF12,

CHMG<sup>+18</sup>, CGB19, CEFQ11, EBG18, HPF<sup>+16</sup>, HBTT11, KAH16, KCJ<sup>+15</sup>, MFAS<sup>+12</sup>, PPF<sup>+13</sup>, PHHM12, WKS<sup>+19</sup>, WSK11, ZTC12]. **Within-Day** [AJF13b]. **Within-River** [BQF<sup>+19</sup>, SYH<sup>+15</sup>]. **Within-Stream** [HCNL10]. **without** [SAH<sup>+14</sup>, TRW10]. **Wolf** [SIKR17]. **Wood** [FSFS17, JADJ<sup>+14</sup>, MWS10, PPJ15, DHRQ10, MSS<sup>+11</sup>]. **Woodruff** [YITI12]. **Woody** [DW13, TVL<sup>+12</sup>]. **World** [Fre19, PM19]. **Wound** [CHW<sup>+13</sup>, IBH12, LBD<sup>+16</sup>]. **Woundfin** [CCKF11]. **Wyoming** [CRH10, HUMG<sup>+18</sup>, MRPW19].

**Y-Chromosomal** [MSWD15, MSS<sup>+17</sup>]. **Yakima** [JRP12, DML<sup>+10</sup>, LHS<sup>+13</sup>]. **Yampa** [ZBHW16]. **Yaqui** [BB15]. **Yarlung** [LCO<sup>+15</sup>]. **Year** [Bel12, BB10b, CNM<sup>+18</sup>, CAB11, DCJ<sup>+13</sup>, IMO<sup>+14</sup>, LV14, PW10a, SWP<sup>+18</sup>, VFB<sup>+16</sup>, WB13a]. **Year-Class** [PW10a, SWP<sup>+18</sup>]. **Yearling** [CKFQ11, CFHE11, SLG<sup>+14</sup>]. **Years** [FBS<sup>+14</sup>, RKEB13b, STK12]. **Yellow** [AGKH17, BPS11, BDS10, CM11a, GSVS<sup>+10</sup>, IHTF11, JRBC13, KGW14, LSPB11, MD11, RCD<sup>+11</sup>, RBF<sup>+11</sup>, RLL<sup>+19</sup>, SR10, SSS<sup>+12</sup>, SB12a, SS15c, WDW11, WL13, YJW11]. **Yellow-Phase** [RLL<sup>+19</sup>, WL13]. **Yelloweye** [BS16]. **Yellowfin** [RBE<sup>+10</sup>]. **Yellowstone** [SGK16, CKM<sup>+11</sup>, KKB<sup>+10</sup>, MKHC17, ODG<sup>+11</sup>, SGK16, THKG10]. **Yellowtail** [BC12]. **Yield** [BJA<sup>+13</sup>, Smi13, vS10]. **Yolo** [HSG10]. **York** [BGLP19, Cha13, PSH<sup>+19</sup>, Pet15, BSGB17, BSCA17, DCJ<sup>+13</sup>, EBMV10, GBW16, HKW<sup>+14</sup>, MBM10, TCBI11, VFB<sup>+16</sup>]. **Young** [Bel12, BB10b, LV14, MT19, RBF<sup>+11</sup>]. **Young-of-the-Year** [Bel12]. **Young-of-Year** [BB10b]. **Yukon** [BEMF11, BD15, DF11, ZKH12]. **YY** [KMS<sup>+18</sup>].

**Zale** [Ryp13]. **Zealand** [YHWH10]. **Zebra** [HKP11]. **Zimmer** [Cha13]. **Zone** [RCM<sup>+19</sup>, SGP16, TLKT17]. **Zooplankton** [HTR13].

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