

- bipole, see eddies
- Black Sea 272, 274 – 275, 281 – 283, 295 , 296
- Bohai Gulf 168, 169
- Bosphorus Strait 282 - 283
- Bottom Water
- Antarctic 53, 77 – 80, 140 – 141, 146, 200 – 201, 203, 255 – 256, 259
 - Arctic 93 – 95, 99 – 101, 256 – 258, 263
 - Baffin Bay 273
 - Japan Sea 168
 - Yellow Sea 169
- boundary currents
- western 41, 43, 45 – 46, 50, 57, 121 ff., 140, 146, 147, 163 – 165, 182, 188 ff., 199, 200 ff., 238ff., 269, 286 ff., 306, 318 - 319
 - eastern 131 ff., 139, 154, 158, 195 ff., 247 ff.
- Boussole Strait 162
- Bowers Ridge 157, 158
- Bransfield Strait 78
- Brazil Current 50, 232, 233, 237, 244 – 246
- Broken Plateau 177
- Buru Basin 224, 226
- Buy's-Ballot's Law 31
- California Current 110, 134, 136
- Campbell Plateau 66
- Canada Basin 85, 88, 92, 93, 95, 97
- Canadian Archipelago 84, 98, 99
- Canary Current 232, 240, 247 – 251, 303 - 305
- Caribbean
- Current 232, 283, 287
 - Countercurrent 287
 - Sea 271, 283 - 287
- Carlsberg Ridge 177
- Cayman Basin 284, 287
- Celebes Sea, see Sulawesi Sea
- Celtic Sea 291, 293
- Central Indian
- Basin 177
 - Ridge 177
- Central Pacific Basin 108
- Central Water 53, 56
- Indian 191, 208 – 213, 218, 226, 264, 299 - 300
- North Atlantic 251, 265 – 267, 269, 303
- South Atlantic 150, 208, 249 – 251, 263 – 267, 299, 303
- Western South Pacific 52, 150 – 153, 208, 263, 299 - 301
- Eastern South Pacific 150
- Western North Pacific 150 - 151
- Eastern North Pacific 150, 152
- Chagos-Laccadive Ridge 177
- Chatham Rise 130, 140, 149
- Chile (see also Peru/Chile ...)
- Basin 108
 - Rise 64, 140
- China Coastal Current 169
- Chukchi Sea 84, 88, 93, 157
- Circumpolar
- Current 64 – 66, 70, 78 – 82, 101, 102, 110, 140, 200, 203, 245, 246, 255
 - Water 71, 78, 80, 103, 200, 261
- Columbia Basin 284, 287
- Continental Water Boundary 71, 72, 111, 233,
- convection 57, 77 – 79, 81, 277, 278, 283
- atmospheric 325 - 327
- convergence 40, 41, 43, 46 (see also Subtropical C., Antarctic C.)
- Costa Rica Dome 116, 117, 119
- Coral Sea 52 – 53, 108, 109, 110, 121, 126 – 129, 138, 140, 149, 152 – 153, 299 - 300
- Coriolis
- force 29 – 30, 39
 - parameter 31, 35, 36, 39, 41, 42
- Cromwell C., see Equatorial Underc. in PO
- CTD 15 - 17
- Dardanelles 275, 282
- Davidson Current 134
- Davis Strait 231, 271, 273
- Deep Water 52, 319, 321, 322
- Indian 146, 203 - 204
 - Japan Sea 167 - 168
- Mediterranean 278 - 281
- North Atlantic 72, 75, 77, 78, 99ff., 145, 191, 208, 238, 246, 253, 256, 258, 261, 264, 267, 278, 284, 285, 319, 362
- Pacific 144 - 146

- evaporation, see mass flux
- Falkland Current, see Malvinas Current
- Filchner ice shelf 79
- Flores Sea 221, 224
- Florida
 - Current 238 – 240, 247
 - Strait 238, 249
- Faroe Bank Channel 84, 99, 231
- Fram Strait 84, 88, 98
- Franz Joseph Land 98
- freshwater budget 320 - 322
- friction, effect on currents 29 – 30, 36, 39, 43, 114, 131
- fronts (see also Subantarctic, Subtropical, Polar Front) 57, 301 – 302, 303 – 307, shallow sea 290 – 291, 294 - 295
- geostrophy 30 – 34, 37
 - in SO: 63, 75, 82
 - mass transport, geostr. 31, 32, 43, 48
- geothermal vents 218
- Ghana upwelling 250, 252
- Gibbs Fracture Zone 100, 229
- Gibraltar Strait 231, 258, 259
- Grand Banks, see Newfoundland Bank
- Great Australian Bight 127, 197, 201, 207, 208, 215, 299, 301
- Great Barrier Reef Undercurrent 116
- Great Whirl, see Somali Current
- greenhouse effect 349, 362
- Greenland Sea 92 – 94, 98, 100, 319, 362
 - Deep Water 92 - 94
- Greenland-Iceland-Scotland Ridge 89, 98 – 100, 256, 257, 362
- Grenada Basin 287
- Guinea Dome 237, 238, 249, 266, 267
- Gulf of
 - Carpentaria 157, 173
 - Guinea 237, 251 - 252
 - Mexico 271, 283 – 283, 287 - 290
 - Oman 176
 - Panama 139
 - Suez 215, 216
 - Thailand 157, 171, 173
- Gulf Stream 11, 13, 36, 45, 46, 50, 190, 193, 232, 238 – 243, 254, 262, 296, 324
 - Extension 234, 238 - 240
- Guyana C. 246, 254, 262, 267, 283
- gyre
 - subpolar 46, 70
 - in AO: 232, 234, 244
 - in PO: 112, 121, 124, 125, 136
 - subtropical 46
 - in AO: 232, 233, 240, 244, 245, 247
 - in IO: 179 - 182
 - in PO: 110 – 112, 120 – 123, 125, 130, 132, 133, 134, 136
- Halmahera
 - Eddy 111, 125
 - Sea 226
- halocline 58, 59, 61, 297
- heat
 - balance
 - in Bay of Bengal 213
 - in equatorial PO: 120
 - flux 11 – 12, 61, 311, 313 – 320, 322 - 324
 - latent 314
- loss
 - in Agulhas C. 193
 - In Gulf Stream 244
 - in Leeuwin C. 196, 197
 - in SO: 324
 - transport 49, 51, 61, 317, 324
 - in Arctic Med: 97
 - in SO: 82
- Hokkaido 124, 160 – 162, 165
- Honshu 121, 124
- Hormuz Strait 219, 220
- Hudson
 - Bay 271, 274
 - Strait 271
- Humboldt C. see Peru/Chile C.
- ice
 - Antarctic 76 – 77
 - Arctic 90 – 91
 - in Baltic Sea 296, 297
 - in Bering Sea 159
 - in Hudson Bay 274
 - in Sea of Okhotsk 159, 160
- Iceland Sea 84, 262, 362
- Indonesian throughflow 101, 102, 126, 179, 182, 196, 215, 220 – 228, 317, 318, 321
- Intermediate Water
 - Antarctic 52, 72, 74, 77, 78, 81
 - in AO: 244, 256, 261
 - in IO: 207

- mixing 300, 303, 306 - 309
- diapycnal 57, 175, 211
 - in Australasian Med. 228 - 229
- isopycnal 57, 175
- tidal 226, 227
- Mode Water 77
 - Madeira 266
 - subantarctic 77, 78, 324
 - subtropical 264, 265, 266, 318
 - 13° Water 264
 - 18° Water 266
- modelling, numerical 313, 317, 322, 325, 349, 353, 360
- Molucca Sea 221, 224, 226
- monsoon 5, 8, 177, 317, 325, 327
 - Northeast or Winter
 - in IO: 177 - 183, 186 - 188, 193
 - in western PO: 109, 110, 111,
 - Southwest or Summer
 - in IO: 179, 181 - 183, 186 - 187, 193 - 195
 - in western PO: 109, 110, 339, 342
- Northwest (in Coral Sea) 111, 116, 119
- in Australasian Med. 218, 222 - 224
- Mornington Abyssal Plain 64, 108
- Mozambique
 - Basin 201
 - Current 179, 180, 188 - 190
 - Ridge 190
 - Strait 189, 202, 215
- Nansen
 - Basin 85, 94, 95, 98
 - Ridge 85
- Nares Strait 84, 271
- Nauru 339, 340, 341, 432
- Newfoundland Bank 90, 239
- New Guinea
 - Coastal Current 111, 116, 125
 - Coastal Undercurrent 116
- New Zealand 110, 112, 127, 130, 140, 146 - 150, 207
- Ninety East Ridge 177, 201, 203
- North Atlantic Current 234, 239, 240, 262, 265
- North Brazil C. 237, 246, 264
- North Korea Cold Current 165
- North Pacific Current 110 - 112, 122, 125
- North Polar Sea, see Arctic Med. Sea
- North Sea 84, 293 - 295
- Northeast Pacific Basin 108, 140, 144
- Northwest Pacific Basin 108, 140
- Northwest Passage 271 - 274
- Northwest (Australian) Shelf 178
- Novaya Semlya 98
- Norwegian
 - Current 91, 98, 99, 231, 233, 234, 240
 - Sea 84, 88, 92 - 95, 98, 99
 - Sea Deep Water 94, 95
 - Trench 290, 293 - 295
- Okhotsk, Sea of 160 - 165, 167
- Okinawa
 - Islands 121, 169
 - Trough 168
- Owen Fracture Zone 177
- oxygen
 - in AO: 247, 253, 256, 257, 269
 - in American med. 285
 - in Arabian Sea 209 - 211
 - in Australasian Med. 225 - 227
 - in Baffin Bay 273
 - in Baltic Sea 295, 296, 298
 - in Bay of Bengal 211
 - in Black Sea 281, 282, 283
 - in Eurafrican med. 278, 279
 - in IO: 202 - 205, 209 - 211
 - in PO: 141, 143 - 145
 - in Red Sea: 216 - 220
- Oyashio 112, 122, 124 - 125, 140, 147
 - Front 124, 125
- Pacific-Antarctic
 - Basin 64
 - Ridge 64, 105
- Pacific Subarctic Current 125
- Panama Basin 144
- Persian Gulf 175, 219 - 220
 - Water 203 - 206
- Peru Basin 108, 144
- Peru/Chile
 - Current 2, 110, 116, 133, 134
 - Undercurrent 116
 - Trench 144
- Philippines 171
 - Current 110
 - Trench 23
- Polar Atlantic Water 273
- Polar Front 46
 - Antarctic 71 - 72, 74, 77, 78, 81, 307
 - in AO: 233

- Subantarctic
 - Front 71, 72, 81
 - in AO: 233
 - in IO: 180
 - in PO: 111
 - Zone 71, 76, 77, 81
- Subtropical
 - Convergence (STC) 56, 57, 64, 71 – 73, 299
 - in AO: 262 – 265
 - in IO: 51, 188
 - in PO: 150, 154, 299
 - Countercurrents in PO: 111, 120 - 121
 - Front 64, 71 – 73, 76, 81
 - in AO: 233
 - in IO: 180, 181
 - in PO: 111, 134
- Sulawesi Sea 221, 222, 223
- Sulu Sea 221
- Sunda Shelf 171, 173, 174
- Surface Water
 - Antarctic 77
 - Arctic 92, 95, 97 – 99, 273
- Svalbard 85, 93
- Sverdrup circulation 43ff.,
 - in WO: 45 – 48, 51, 61
 - in AO: 232 – 234
 - in IO: 179 – 182
 - in PO: 110 – 112
- Taiwan 121, 168
 - Strait 168, 169, 171 – 173
 - Warm C. 169, 170
- Tasman
 - Current 112
 - Front 126, 127, 129
 - Sea 84, 108, 127, 128, 130, 137, 140, 149, 157, 299ff.
- Tasmania 64, 82, 112, 147, 150
- Tatarskyi Strait 162
- temperature
 - equilibrium 311, 312, 316
 - sea surface 311, 312, 314, 325, 350ff.
 - for AO: 254, 346 – 347
 - for IO: 200
 - for Irish Sea 262
 - for North Sea 265
 - for PO: 118, 124, 139 – 140, 333, 334, 340ff.
 - for WO: 19
 - sub-surface, for WO: 20, 21, 63, 309
- thermal wind relation 34, 91, 114, 140, 259
- thermocline
 - depth in PO 114
 - permanent or oceanic (see also Central Water) 32 – 36, 43, 55 – 57, 63
 - seasonal 54, 56, 59 – 61, 295
 - tropical 54, 58
- Timor 221, 226
 - Sea 173,
 - Trough 174
- TOGA 339, 344, 345, 363
- Tokara Strait 121, 123
- Trade Winds (Trades) 3, 8, 11, 12, 40, 41, 46, 48, 49
 - in AO: 231, 232, 234, 238, 247, 248, 347
 - in IO: 177 – 179
 - in PO: 109, 114, 117, 131, 335, 339, 343
- Tropical Front in PO: 130
- TS-diagram 52, 53, 56, 57, 61
 - in Arctic Med.: 97
 - in SO: 77 – 78
- Tsugaru
 - Strait 124, 164
 - Warm Current 124, 164
- Tushima
 - Current 121, 162, 164, 165, 167, 169, 170
 - Strait 168
- turbulence 300, 307, 308
- Upper Water
 - Subantarctic 77, 78, 151, 154
 - Subarctic 149, 152, 154
- upwelling
 - coastal 120, 131ff., 179, 312
 - in Arabian Sea 186 – 187, 193ff.
 - in AO: 247 – 252, 254, 303 – 306, 315, 346
 - in IO: 179, 186ff., 191ff., 196, 317
 - in Java Sea 179, 196
 - in PO: 123, 315, 329, 332 – 336, 338
 - dynamic (in Agulhas C.) 190, 191
 - equatorial 118, 120, 179, 235, 316
 - in Eurafrican Med. 278, 282
 - in SO: 72, 74
- Venezuela Basin 287
- Vietnam 168, 171, 172
- volume transport 31

