

Known Issues GLODAPv2.2018

Inclusion of pCO₂

Note that it is sometimes used to calculate a missing carbon variable

Split cruises according to Basins as done for the 2nd QC

E.g. some cruises of the Indian Ocean also include Mediterranean samples
Bering Sea maybe rather part of the Pacific than AMS

Suspicious (GLODAPv2) data found during sanity check of GLODAPv2.2018 (passed check)

C13: Large scatter, see circled areas figure "c13.png" in attachment

DOC: Large scatter in Pacific

Noble gases (Helium and Neon): Check cruises:

320619940214 (PO)
06MT20010717 (AO)
33PY19960913 (AMS)
58JH19940723 (AMS)
58JH19951108 (AMS)
58JH20000527 (AMS)
ZZIC2005SWYD (AMS)

Oxygen: Check cruises:

31DS19940126 (PO)
316N19930222 (PO)
316N19950829 (IO)

CFC113: 33RR20160208 (IO)

cruise 279 stations 2-7: oxygen suspect for this area; at least quality flag>2

cruise 1008 / 06M220170104: pretty noisy CT, but probably unbiased

cruise 1027 / 18HU20150504: pH for stations 196, 200, 203 is offset by +0.1 pH units, rest of cruise is ok -> flag stations questionable or bad

cruise 1039 station 133: There may be some misassignments of bottle numbers to pH data or simply a couple of bad (deep) profile samples. The profile shape is not consistent with CANYON-B/CONTENT nor with concurrent AT/CT observations. Flag pH as bad. (see attached)

cruise 1109: Suspicious jump in nitrate vs. CANYON-B NO₃ for stations 52 - 95 of ~+ 1 umol kg⁻¹ (see attached)

cruise 1109 / 74EQ20151206: pretty noisy CT; maybe -5 umol kg⁻¹ lower CT West of 45° W than CONTENT maybe +4 umol kg⁻¹ higher AT East of 45° W than CONTENT