Edits to CCHDO cruise 06MT22\_5 Dissolved Oxygen Quality Flags

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<https://cchdo.ucsd.edu/cruise/06MT22_5>

Examination of the bottle data file ([a10\_hy1.csv](https://cchdo.ucsd.edu/data/763/a10_hy1.csv)) for this 1992-1993 cruise shows oxygen data value anomalies that should be addressed with changes in quality codes from their present "2" (good) to "4" (bad). These are gross data errors, perhaps reflecting a sampling or analytic error. None of the values recommended for new flags showed accompanying signatures in T, S, or nutrients.

There are, however, moderately suspicious (too low) mid-depth low oxygens at stations 89, 91, and 93 that I decided to leave be (quality code 2), because there are some lower oxygen waters in this domain and depth range and who knows?

The recommended O2 flag changes:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Station | bottle | CTDPRS | OXYGEN | NEW O2 CODE |
| 632 | 307 | 1799 | 280.5 | 4 |
| 10 | 315 | 1198 | 277.1 | 4 |
| 11 | 316 | 2501 | 204.9 | 4 |
| 11 | 312 | 3505 | 223.1 | 4 |
| 50 | 317 | 900 | 271.1 | 4 |
| 50 | 302 | 3653 | 286.4 | 4 |
| 58 | 313 | 999 | 246.8 | 4 |
| 62 | 315 | 1200 | 280.7 | 4 |
| 81 | 306 | 4255 | 193.8 | 4 |
| 83 | 314 | 2501 | 185.3 | 4 |
|  |  |  |  |  |
| 89 | 202 | 501 | 142.6 | unchanged |
| 91 | 202 | 400 | 162.6 | unchanged |
| 93 | 204 | 504 | 158.7 | unchanged |