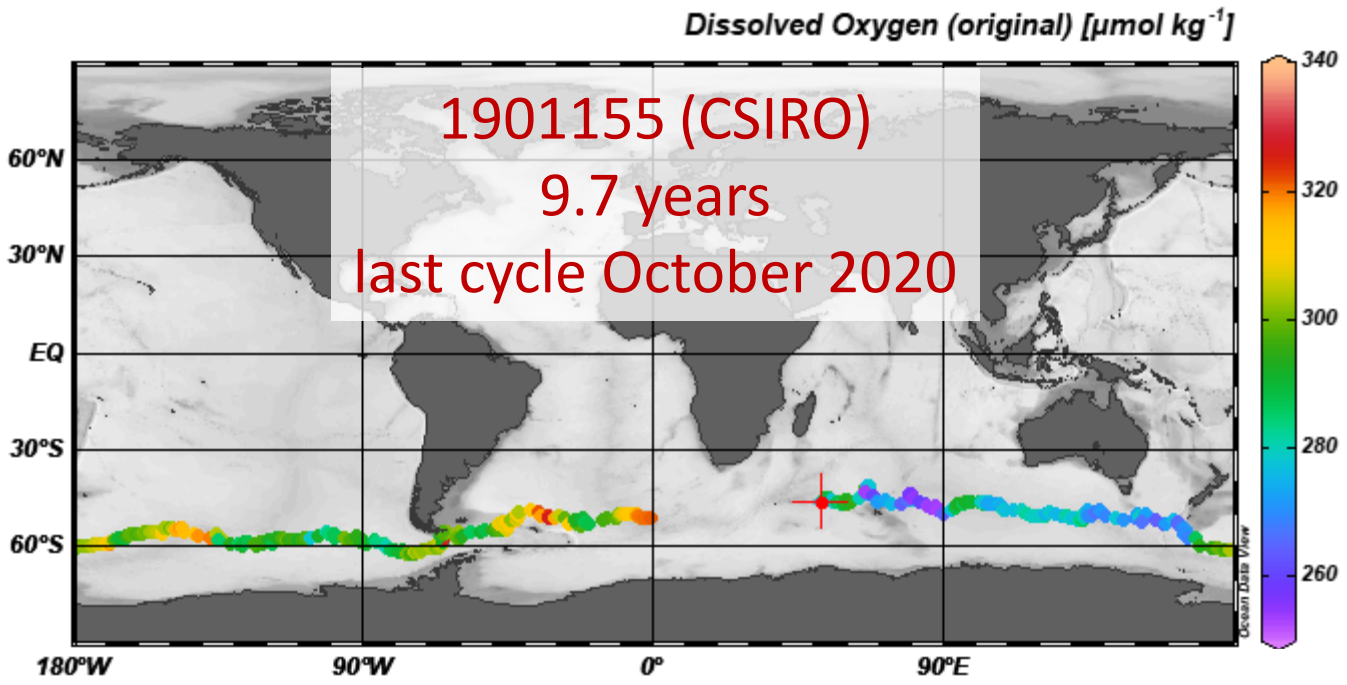
# DOXY Audit progress & questions

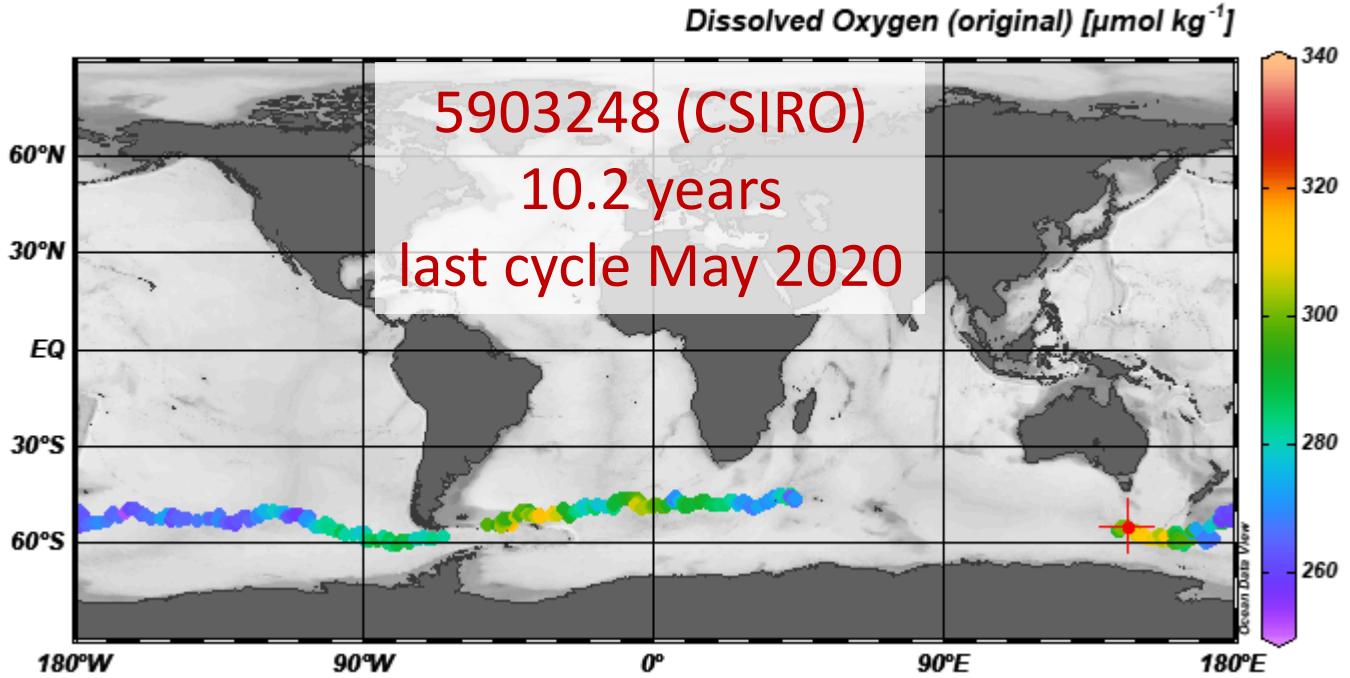
Josh Plant, Tanya Maurer
&
Ken Johnson

9th BGC Argo Meeting, ADMT 21
November 30 – December 1, 2020
Virtual




Two DOXY floats almost circumnavigated the Southern Ocean!

Just because it is pretty neat!



# ftp://ftp.mbari.org/pub/BGC_argo_audits/DOXY/

Not secure | ftp://ftp.mbari.org/pub/BGC_argo_audits/DOXY/

Apps | Argo - ifremer | West Coast Browser... | Directory listing of... | California Coronavir...

## Index of /pub/BGC_argo_audits/DOXY/

[parent directory]

| Name | Size | Date Modified |
|---|---|---|
| DOXY AUDIT readme.docx | 2.2 MB | 11/20/20, 10:18:00 AM |
| DOXY AUDIT readme.pdf | 781 kB | 11/20/20, 10:20:00 AM |
| DOXY_annom_map_112020.png | 1.6 MB | 11/20/20, 10:22:00 AM |
| DOXY_audit_112020.TXT | 647 kB | 11/20/20, 10:22:00 AM |
| DOXY_audit_flow_chart.pptx | 45.9 kB | 7/8/20, 2:02:00 PM |
| DOXY_audit_log_112020.TXT | 2.6 MB | 11/20/20, 10:22:00 AM |
| DOXY_gains_112020.TXT | 63.0 kB | 11/20/20, 10:22:00 AM |
| MBARI EXCLUSION LIST JUSTIFICATION.docx | 16.5 kB | 5/22/20, 5:00:00 PM |
| OLD/ | | 11/20/20, 10:22:00 AM |
| aoml/ | | 11/20/20, 10:22:00 AM |
| bodc/ | | 11/20/20, 10:22:00 AM |
| coriolis/ | | 11/20/20, 10:22:00 AM |
| csio/ | | 11/20/20, 10:22:00 AM |
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| exclusion_lists/ | | 7/16/20, 8:39:00 AM |
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| jma/ | | 11/20/20, 10:22:00 AM |
| kma/ | | 11/20/20, 10:22:00 AM |
| kordi/ | | 11/20/20, 10:22:00 AM |
| meds/ | | 11/20/20, 10:22:00 AM |

## DOXY Audit

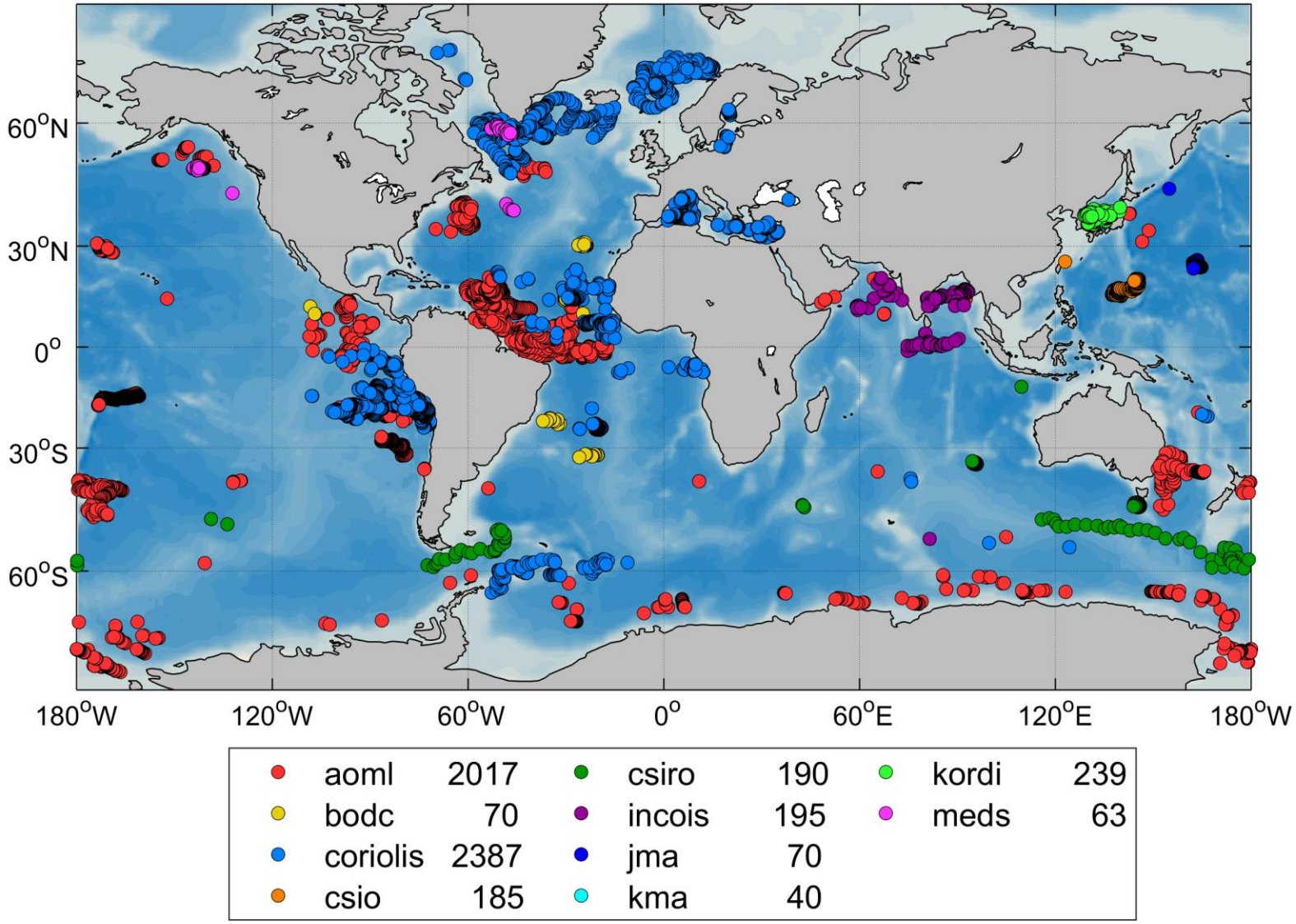
- List of anomalous profiles when compared to fleet statistics
- See readme document for details
- List of gain values for most floats

- Is it helpful – not a lot of feedback?
- If so should it be hosted at a more accessible site?

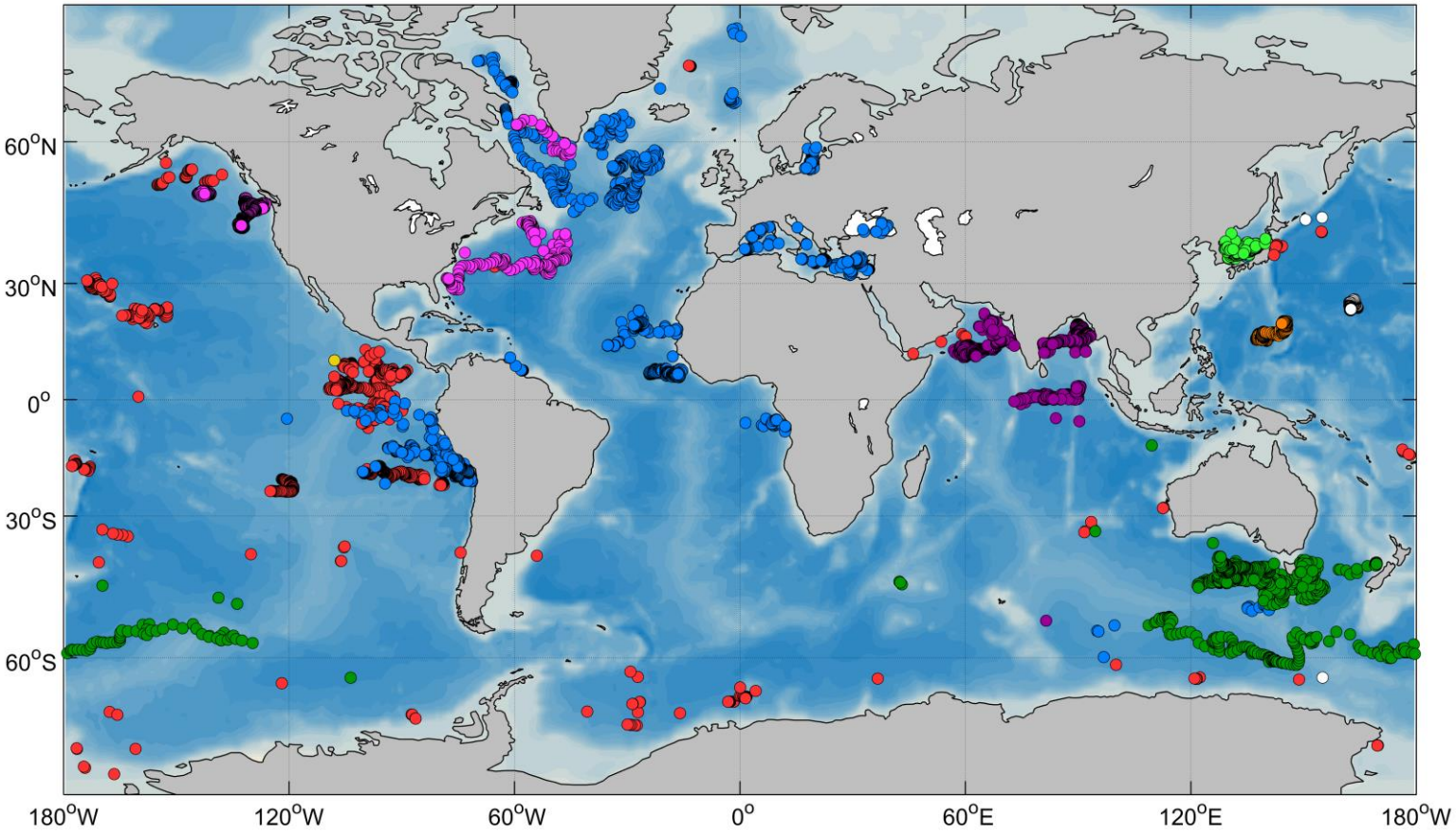
Some stats:

- ~40 million DOXY measurements
- 11% flagged bad
- 80% of good data is now corrected!
- 3.5% profiles flagged anomalous

# ADMT20, October 2019



# ADMT21, November 2020




| | | | | | |
|---|---|---|---|---|---|
| aoml | 901 | csiro | 682 | kordi | 227 |
| bodc | 1 | incois | 654 | meds | 540 |
| coriolis | 1222 | jma | 93 | | |
| csio | 184 | kma | 40 | | |

- Things are looking pretty good !
- 20% reduction in anomalous profiles (5356 vs 4544)
- A few floats could still use a second look
- False positives in high latitude Southern Ocean & Mediterranean Sea still an issue

- Questions / suggestions always welcome!