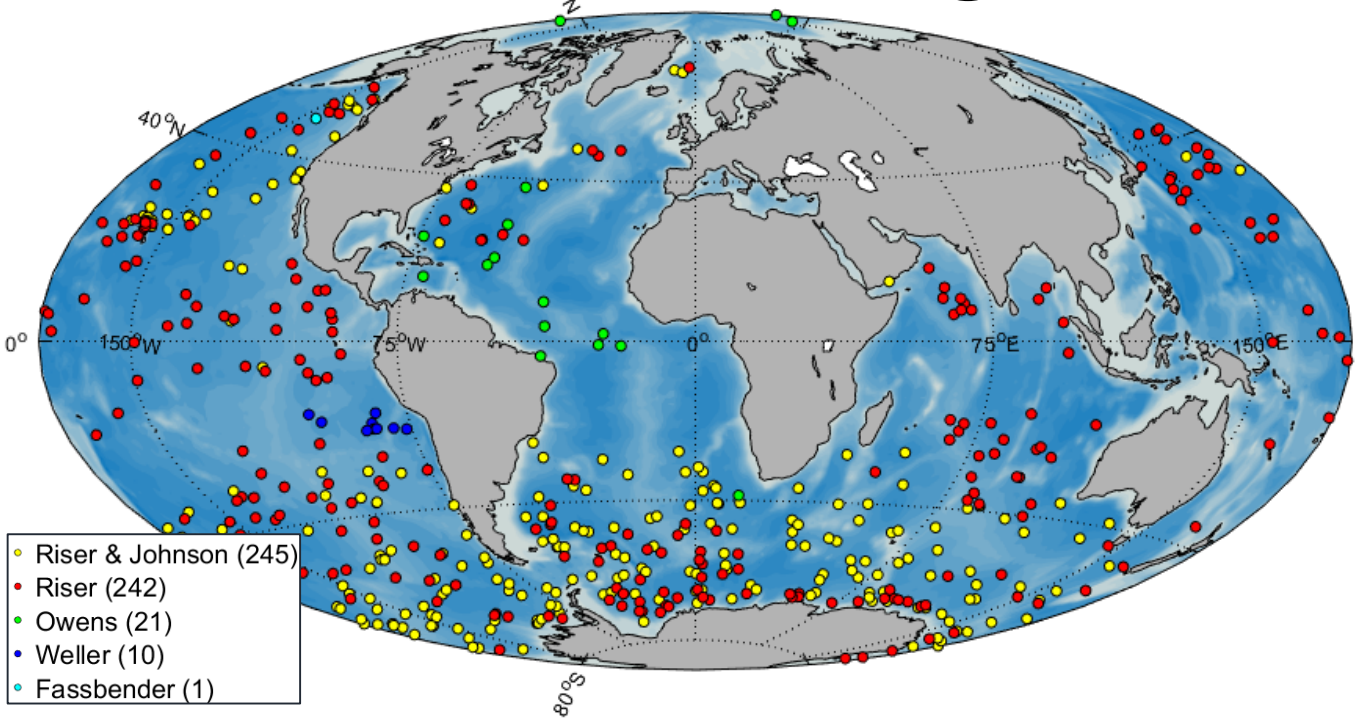
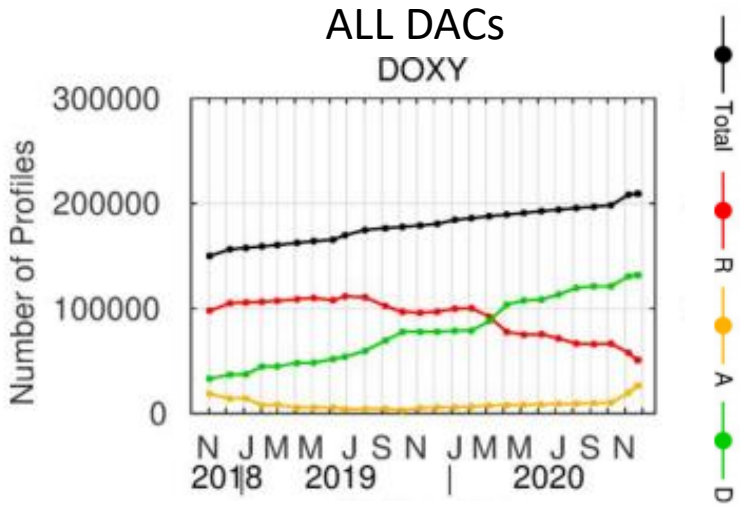
US DAC BGC-Argo Data Management: STATUS



- US BGC data management a collaboration between MBARI, UW, AOML
- BGC processing system at AOML is maturing
- DMQC of historical UW O2 floats lead by Matt Alkire (UW)
- MBARI-developed tools & reports help to increase level of adjusted data on the GDAC!
  - DOXY audit by Josh Plant (80% of total good DOXY profs are now adjusted!)
  - SAGE tools being utilized by other DACs

- **Total 519 Floats**
- **459 APEX, 29 Navis, 31 SOLO-1**
- **48 floats deployed since ADMT20**
  - **34 SOCCOM**
  - **3 CalCurrent (NOAA/PMEL)**
  - **11 NOAA TPOS**

PARAMETER	N FLOATS
DOXY	519
NITRATE	245
PH_IN_SITU_TOTAL	215
CHLA	209
BBP	209
CDOM	28
DOWN_IRRADIANCE	0
UP_IRRADIANCE	0



Right plot from https://biogeochemical-argo.org/cloud/document/implementation-status/BGC_summary.pdf

US DAC BGC-Argo Data Management: FUTURE

- SOCCOM project extended by NSF to 2024 (150 more floats)!
- The Global Ocean Biogeochemistry (GO-BGC) array has been funded!!
  - $52,900,000 & 500 floats (via US GO-SHIP)
  - 5 institution consortium PI team (MBARI, SIO, UW, Princeton, WHOI)
  - MBARI to process BGC data, core data managed by deployment institutions
- *654 more BGC floats managed by US DAC over the next 5 years!*

		Year 1					Year 2					Year 3				Year 4				Year 5				All
Lab	Float	GO-BGC	NOAA NASA	NOPP	SOCCOM	Total	GO-BGC	NOAA	NOPP	SOCCOM	Total	GO-BGC	NOAA	SOCOM	Total	GO-BGC	NOAA	SOCOM	Total	GO-BGC	NOAA	SOCCOM	Total	
UW	APX	40	5		30	75	40	5		30	75	40		30	70	40		30	70	40			40	320
	NAV	6		4		10	24	3	5		32	25			25	25			25	25			25	105
WHOI	NAV	10	5			15	15				15	25			25	30			30	35			35	120
SIO	IDG SOL			4		4																		4
	MRV SOL						5	2	1		8	15			15	30			30	30			30	83
Total						104					130				135				155				130	654

GO-BGC Global Ocean Biogeochemistry Array