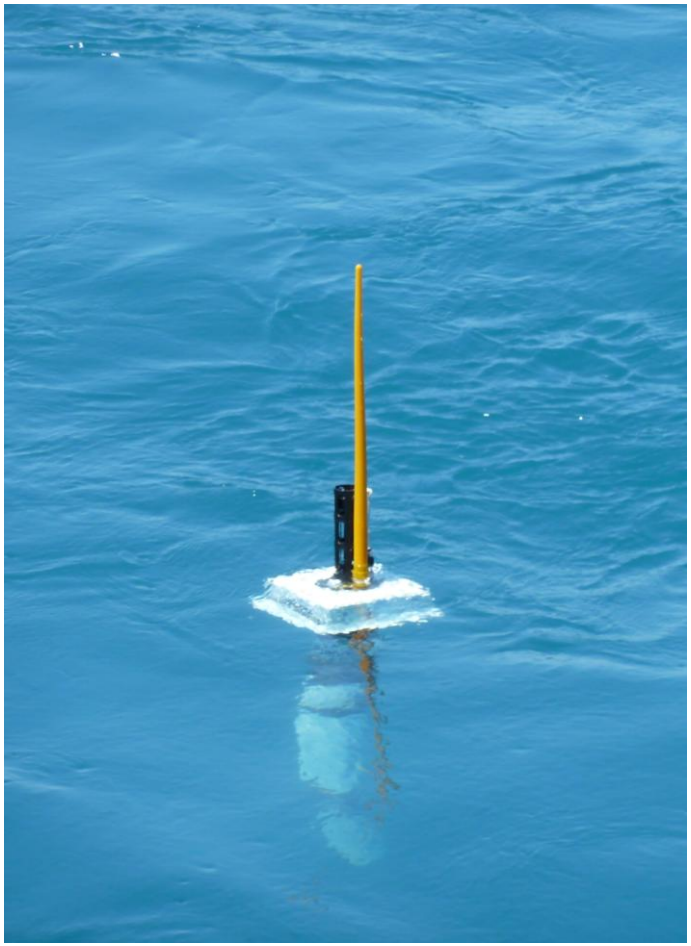
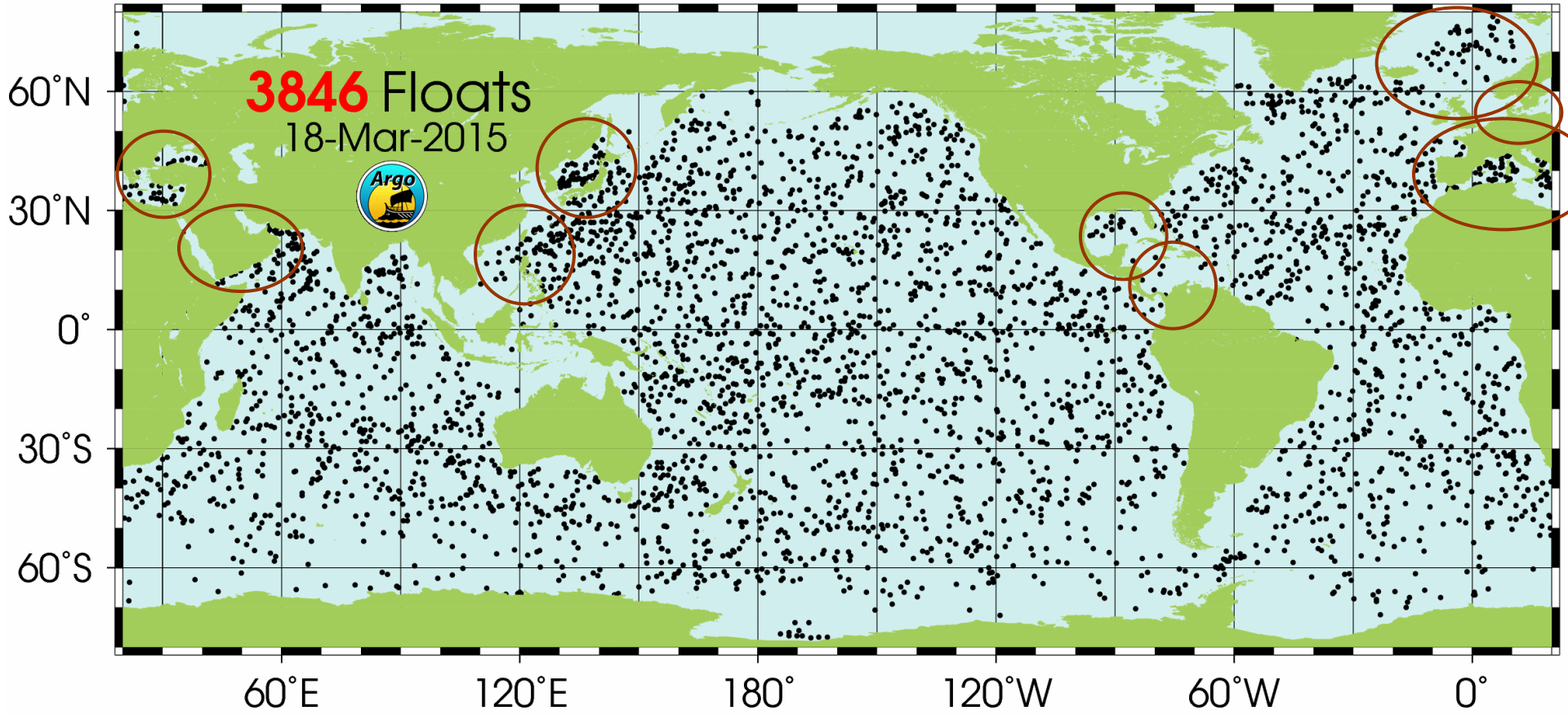
Argo in Marginal Seas



Outline:

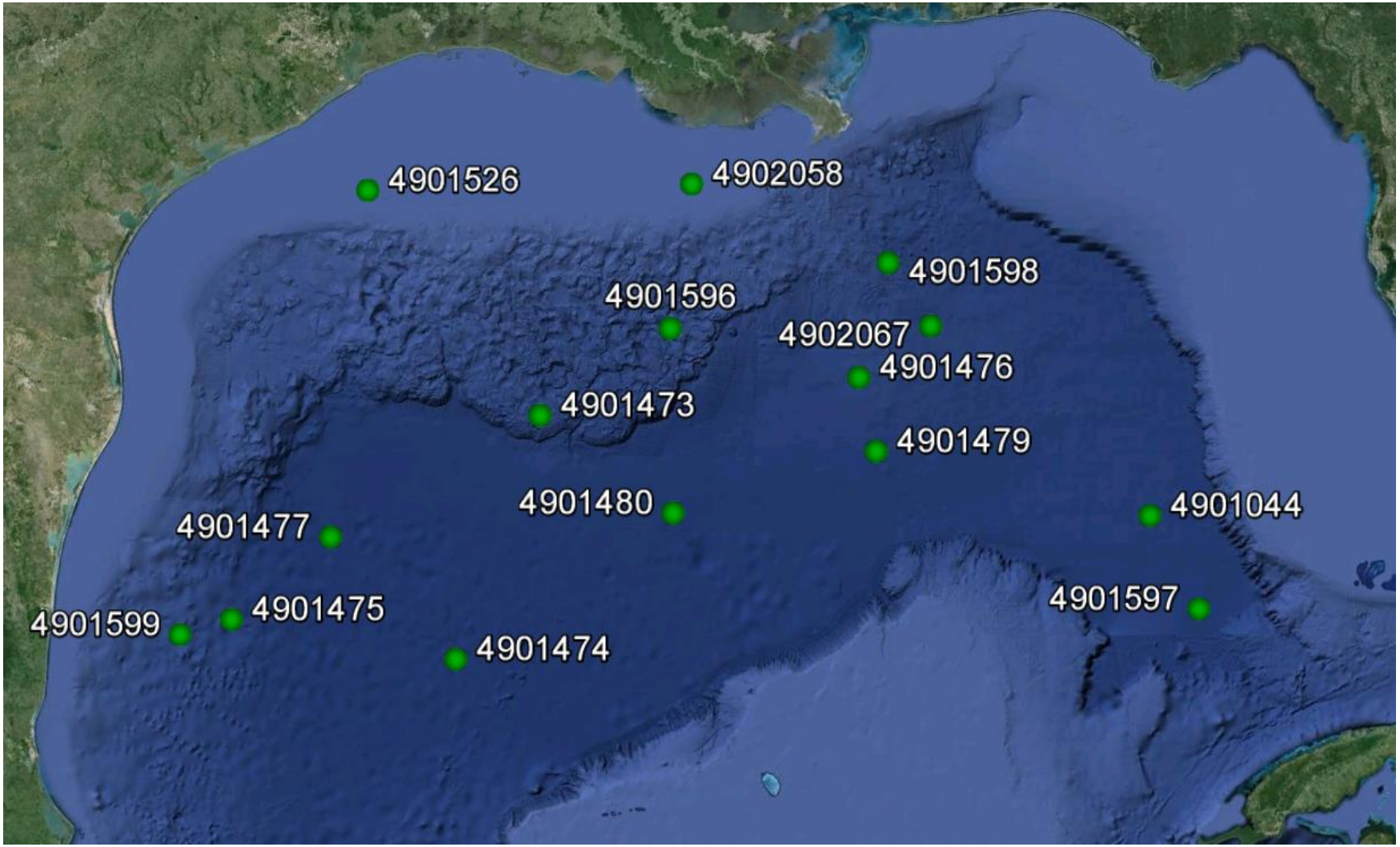
- Marginal Seas in global maps
- Argo in:
  - Asian Seas
  - Gulf of Mexico,Caribbean
- Euro-Argo focus on:
  - Nordic Sea & Baltic Seas
  - Med & Black Seas

Marginal seas on global maps



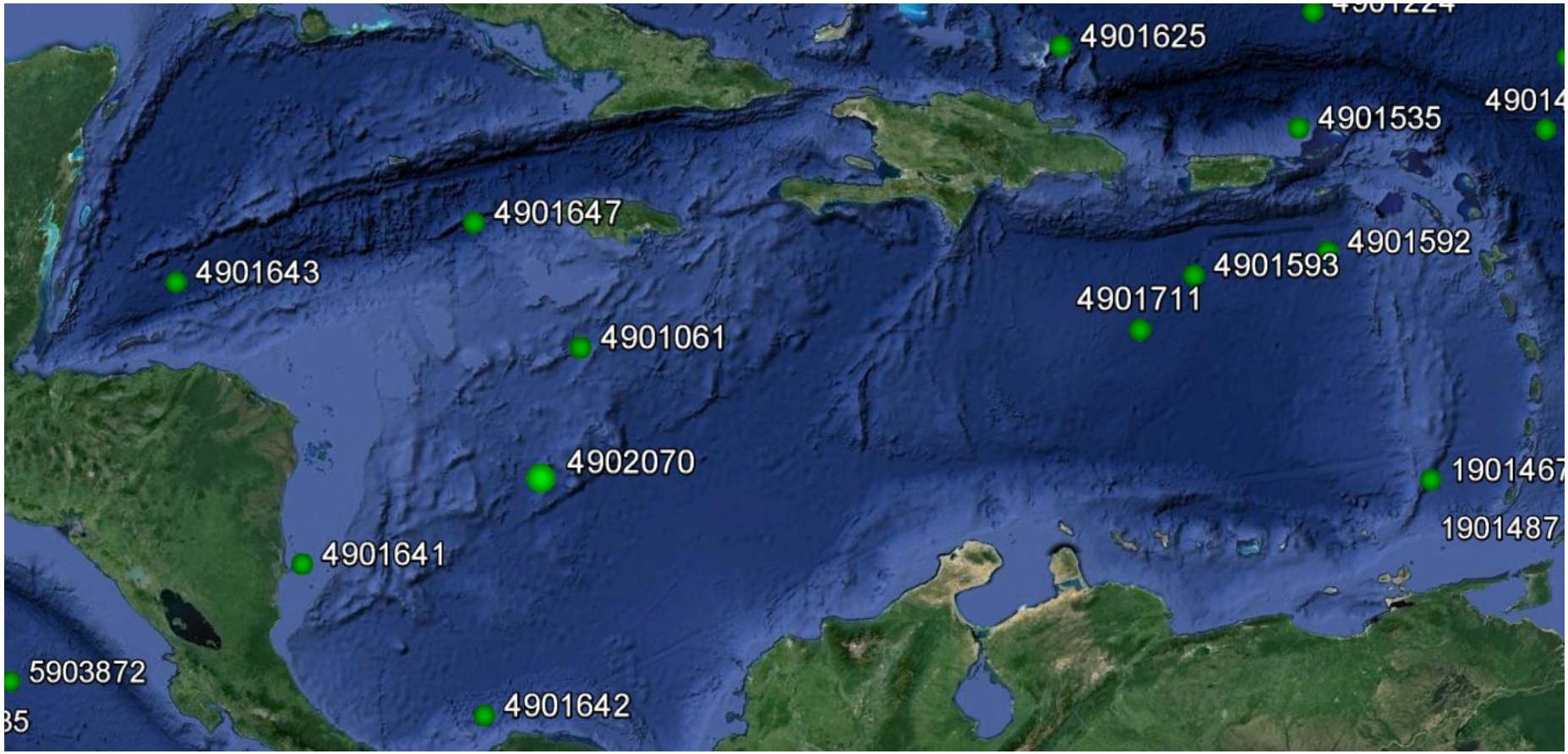
~200 active floats in Marginal seas

Gulf of Mexico



8 active floats in March 2014 to 15 active floats in March 2015 (US)

Caribbean



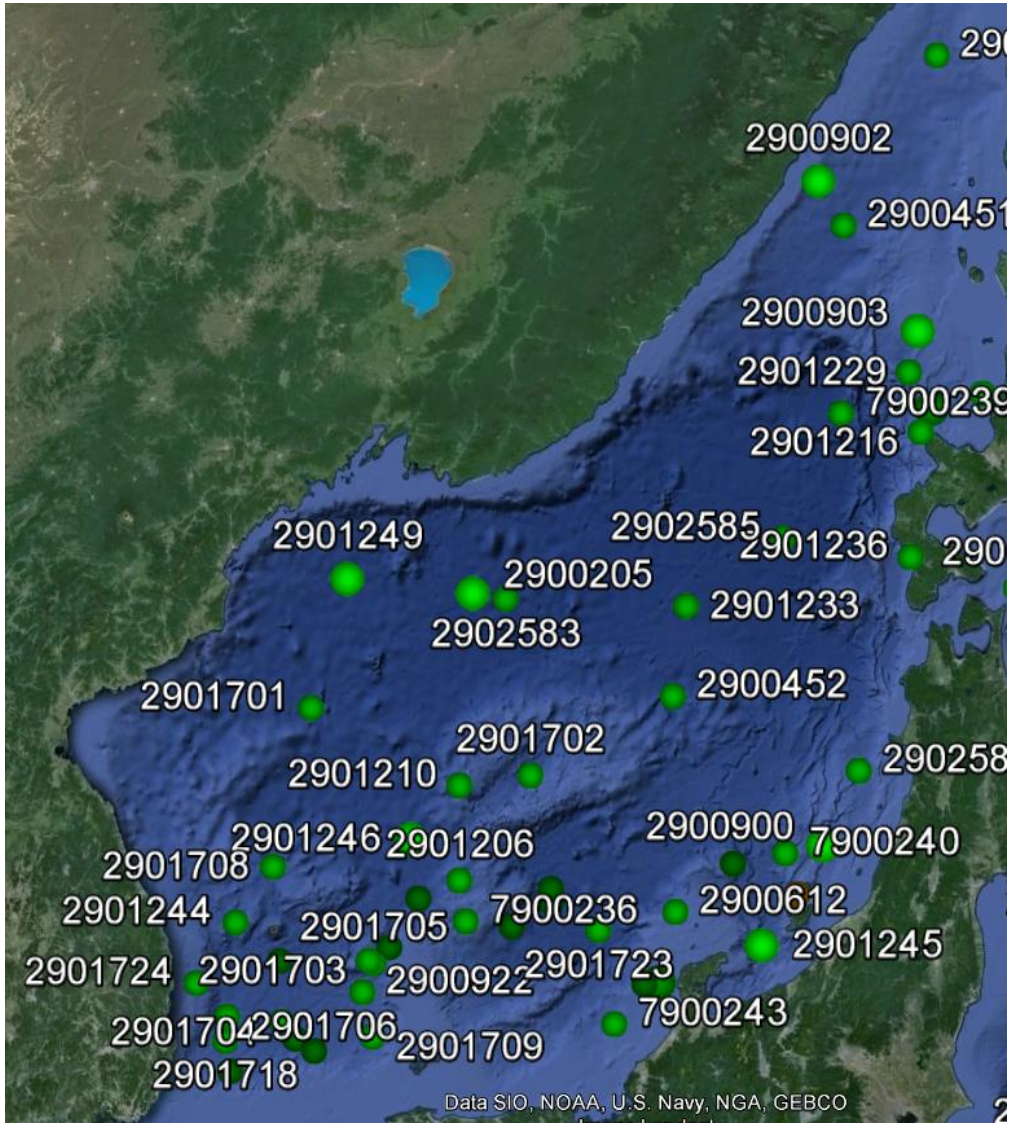
10 active floats in March 2015 (US)

Red Sea & Persian Gulf

~10 active floats in March 2014-2015 (US)

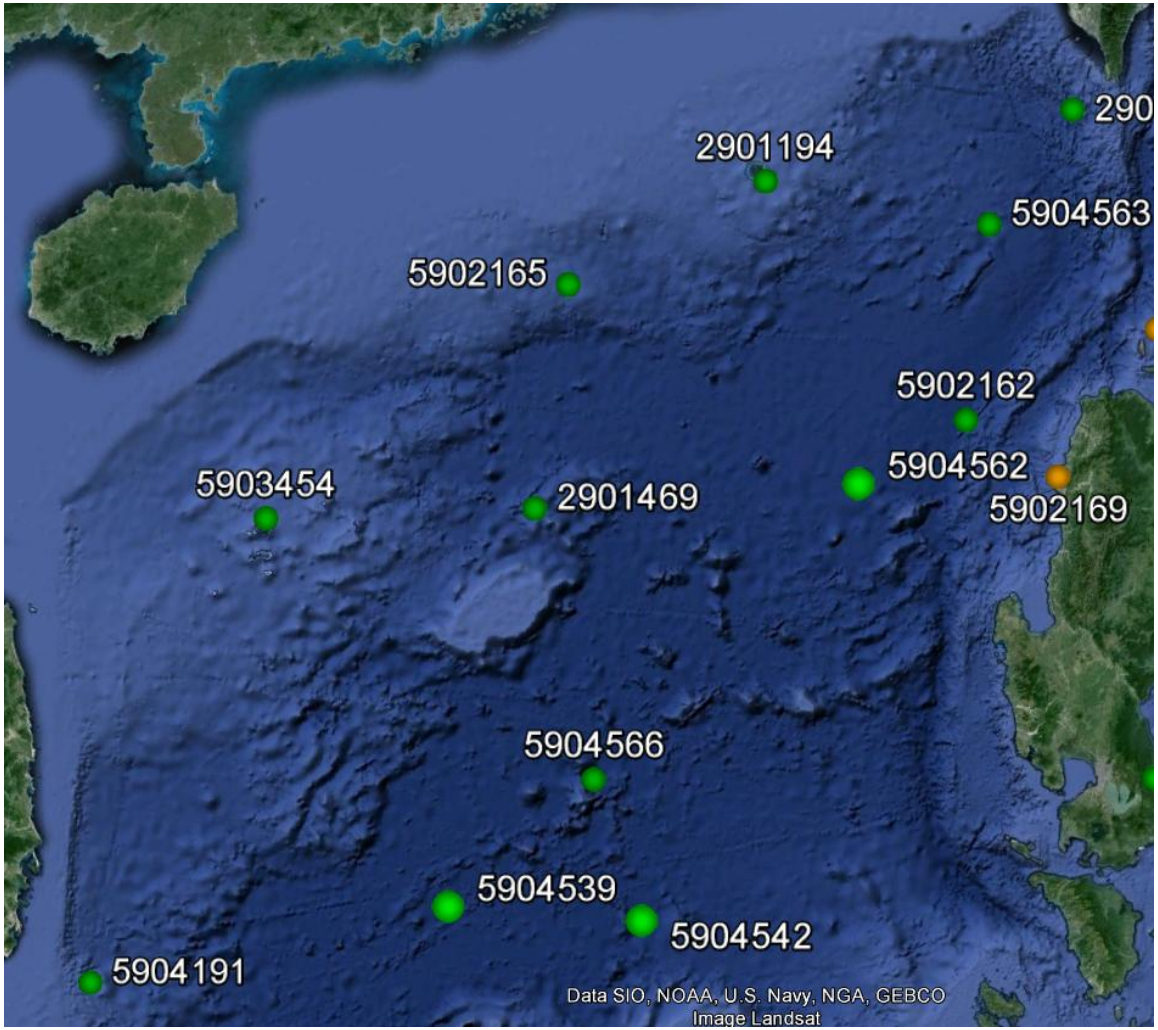
AST-16, Brest, France, 18-20 March 2015

East Sea (Sea of Japan or Korean Sea)



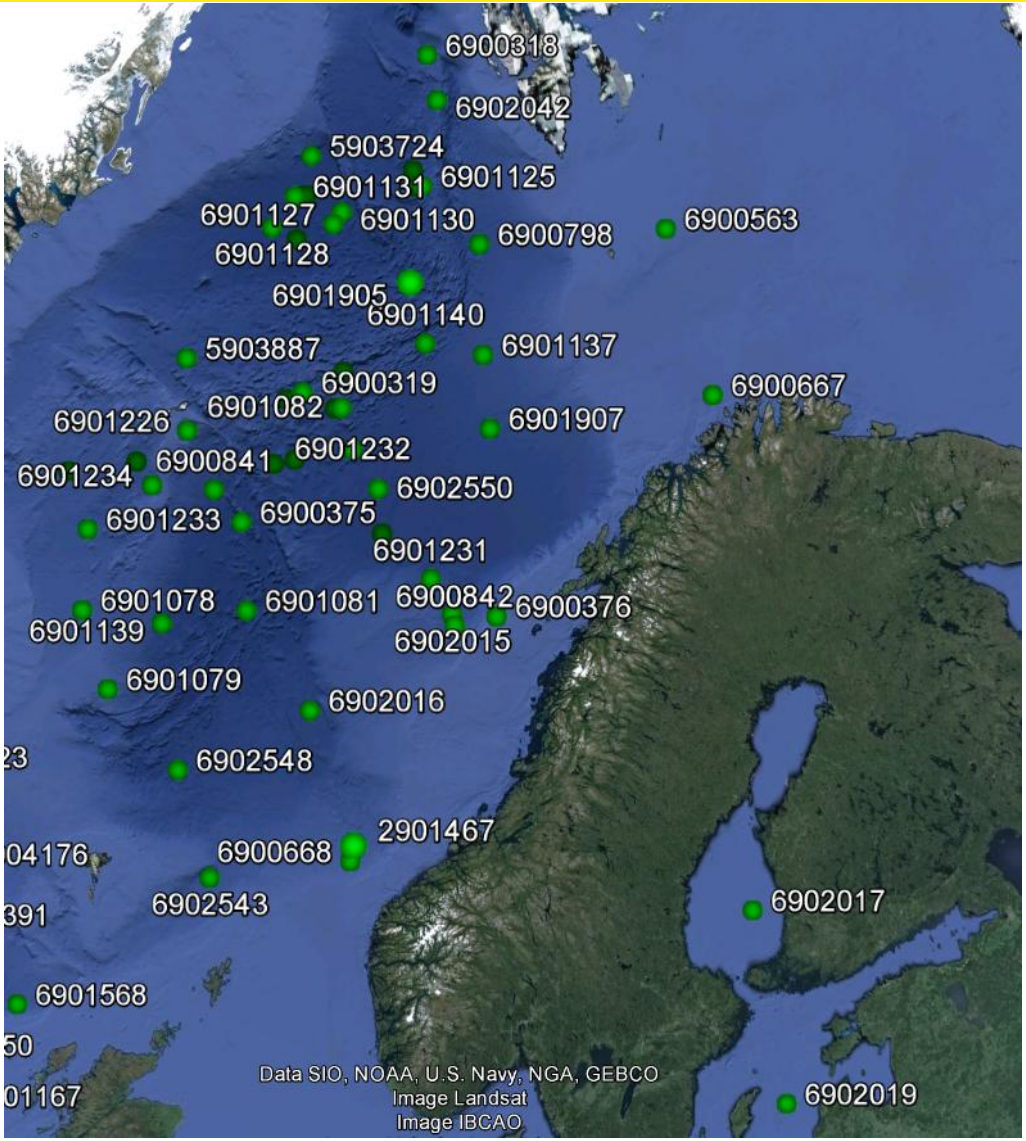
~40 active floats in March 2014-2015 (Korea)

South China Sea



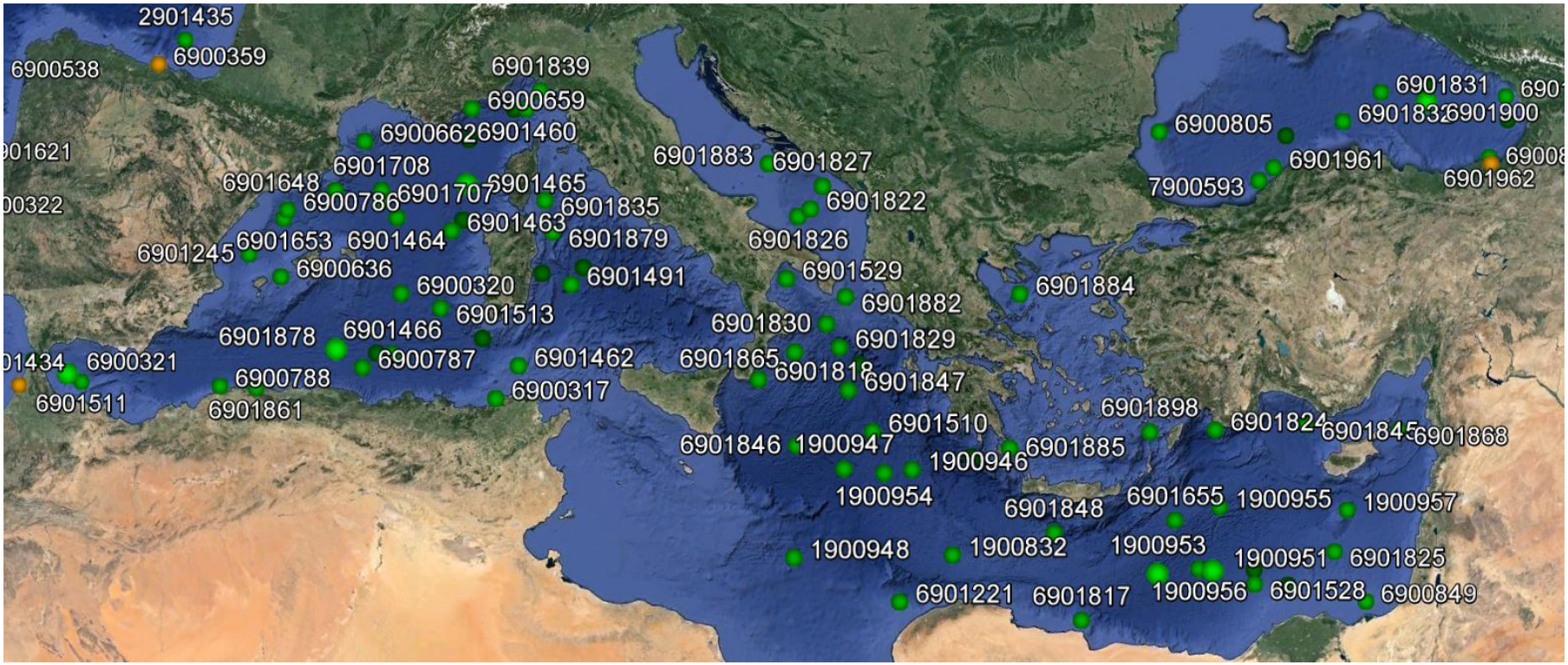
8 active floats in March 2014 and 12 floats in March 2015 (US)

Nordic & Baltic Seas



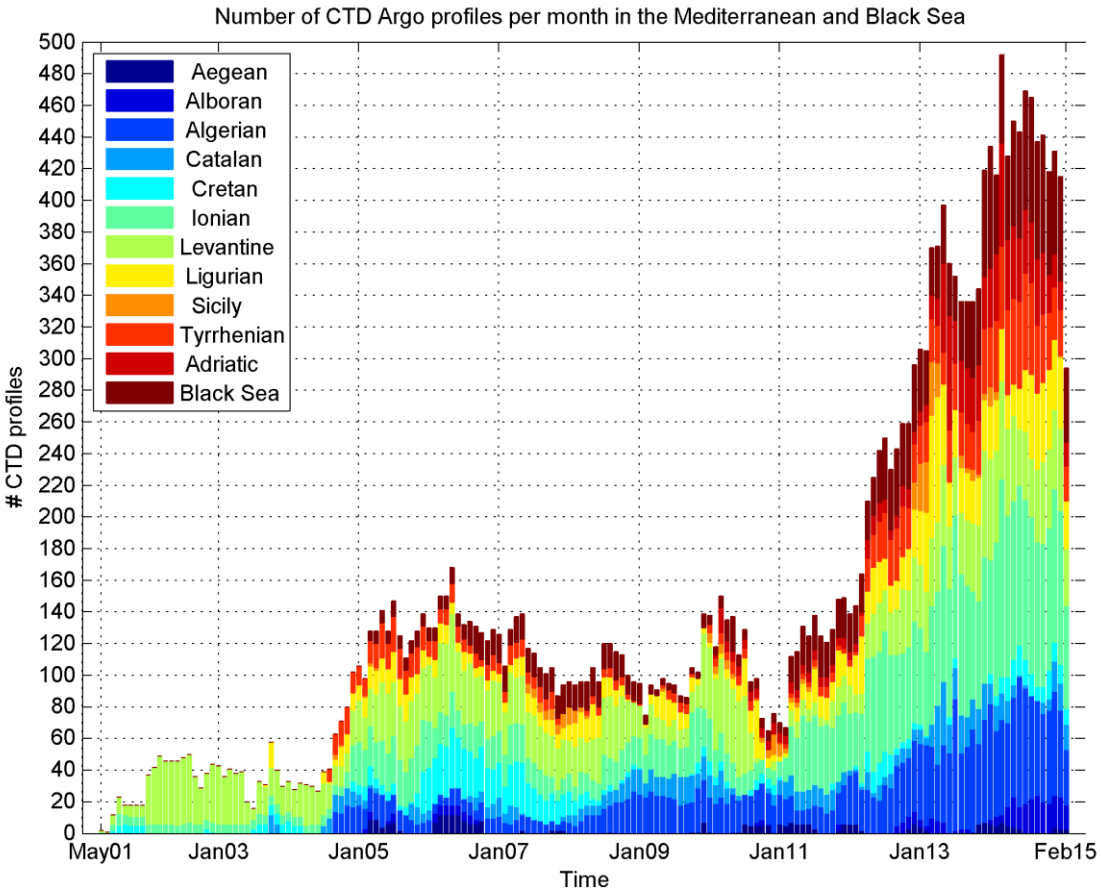
~30 active floats in March 2014 to 47 floats in March 2015 (EU, US)

Euro-Argo in Mediterranean & Black Sea



>70 active floats (EU, US), was ~40 two years ago!

Euro-Argo in Mediterranean & Black Sea

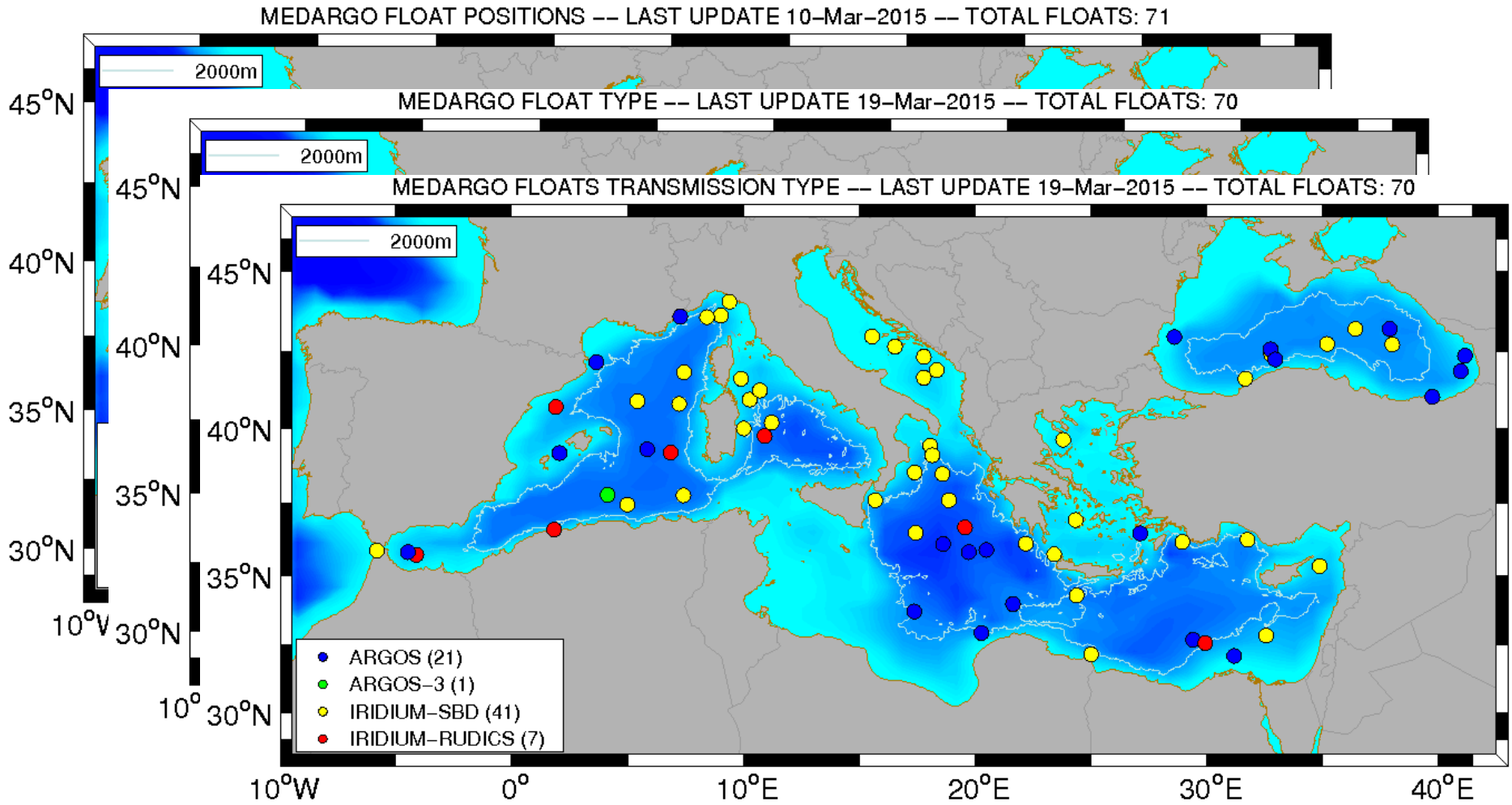


> 400 profiles per month

Country	2010	2011	2012	2013	2014
Spain	0	6	3	2	3
France	3	6	4	12	7
Germany	0	5	3	4	0
Greece	1	0	0	2	5
Italy	2	2	17	8	18
Europe	0	2	0	2	4
Bulgaria	0	3	0	1	0
USA	0	3	9	0	3
Turkey	0	0	0	4	2
Lebanon	0	0	0	1	0
China	0	0	2	0	0
Total	6	27	38	36	42

30-40 floats deployed per year

Euro-Argo in Mediterranean & Black Sea



71 active floats (60 Med + 11 BS), including 21 bio floats, contributed by 9 countries

60% with Iridium telemetry

Implementation of Marginal Seas

Marginal Sea	Floats alive in early 2014	Floats alive in early 2015	Target density
Sea of Japan	40	40	16
South China Sea	8	12	20
Gulf of Mexico	8	15	20
Caribbean	8	10	38
Red Sea/Gulf of Aden	2	2	10
Persian Gulf/Gulf of Oman	8	8	10
Nordic Sea*	30*	45	
Baltic Sea*	1*	2	
Mediterranean	60	60	36
Black Sea	10	10	6
Indonesian Seas	1	2!	21
Sea of Okhotsk	0	2	4
TOTAL	**145 (176*)**	**177 (208*)**	**209**

Using a target of 2 floats in 3x3 boxes,
most of the marginal seas are still under-sampled
(except the Sea of Japan, Mediterranean and Black Sea)

Task Team on Marginal Seas ??