GOOS GRA Modeling Inventory - Overview and Analysis

Summary:

-Inventories received from 9 GRAs (Black Sea GOOS, EUROGOOS, IOCARIBE, IOGOOS, MONGOOS, IMOS, PI-GOOS, SEAGOOS, and U.S. IOOS).

-OCEATLAN and GRASP indicated they do not have operational models.

-No inventory received from GOOS for Africa or NEARGOOS.

-Majority of models being run are circulation or wave models, with a handful of ecological models (Harmful Algal Bloom, Hypoxia, Coral Bleaching, and other Biogeochemical models).

-Operating at varying degrees of horizontal resolution, though the majority fall in the 500m - 4km range.

Methodology for Analysis: An attempt was made to catagorize/classify the models into the following groups. A column has been added to each inventory to reflect this classification. Models were classified into the most promient model type group, but there is potential a model could fall into various groups. One one group was selected for this analysis.

GRA	Circulation	Wave	Tsunami	Oil Spill	Ecosystem	HAB	Hypoxia	Coral Bleaching	Innundation/ Water Level/ Storm Surge/ Tides	Sea Level	Biogeochemical	Sea Ice	Atmospheric	Other	Totals
Black Sea GOOS	10			1											11
EUROGOOS	75	40		9	7				16	2	3	4	2	1	159
GOOS for Africa															
GRASP															
IOCARIBE	34	4	2	2	3				1		1		22	1	70
IOGOOS	8	3											1		12
MONGOOS	28	34		2						3	1				68
NEARGOOS															
OCEATLAN															
IMOS	4	1			2										7
PIGOOS	3	1						1		1					6
SEAGOOS		1													1
U.S. IOOS	51	18		4	4	3	1		6				1	2	90
Totals:	213	102	2	18	16	3	1	1	23	6	5	4	26	4	424
Percentage:	50.2%	24.1%	0.5%	4%	4%	1%	0%	0%	5%	1%	1%	1%	6%	1%	100.0%