December 6th 2013
Rio de Janeiro
CURRENT / TIDE MODEL VS EASYCURRENTS EMPIRIC RESULTS

EasyCurrents current speed and direction have been obtained for every sample. Each sample's end point, has been taken as a point and time reference to obtain the model's current speed and direction.

| | | MODEL | | | EASYCURRENTS | | | | |
| | | hh:mm:ss | m/s | degrees | hh:mm:ss | m/s | degrees | # | |
Latitude	Longitude	Time	Speed	Direction	Time	Speed	Direction	Measurements	Name
43.143	22.913	14:00:00	0.20	170	13:48:50	0.15	166	60	Day 6 002
43.154	22.914	14:00:00	0.10	180	14:02:21	0.21	339	63	Day 6 003
43.154	22.913	14:30:00	0.10	170	14:35:53	0.20	170	89	Day 6 004
43.145	22.928	15:00:00	0.10	170	14:48:11	0.08	172	37	Day 6 005
43.156	22.915	15:00:00	0.00	180	15:00:31	0.34	35	60	Day 6 006
43.152	22.911	15:00:00	0.10	170	15:08:34	0.09	157	89	Day 6 007
43.149	22.925	15:30:00	0.00	160	15:24:37	0.07	312	42	Day 6 008
43.152	22.912	15:30:00	0.00	160	15:35:23	0.14	15	111	Day 6 009
43.154	22.918	16:00:00	0.10	10	15:48:50	0.16	321	46	Day 6 010
43.151	22.925	16:00:00	0.10	350	15:58:58	0.22	346	64	Day 6 011
43.148	22.920	16:00:00	0.10	340	16:02:02	0.15	328	47	Day 6 012
43.157	22.914	16:00:00	0.10	20	16:05:49	0.24	16	63	Day 6 013
43.155	22.911	16:30:00	0.20	5	16:21:36	0.17	7	116	Day 6 014
43.154	22.910	16:30:00	0.20	340	16:28:20	0.23	3	65	Day 6 015
43.158	22.917	16:30:00	0.10	45	16:40:16	0.26	55	108	Day 6 016

CONCLUSIONS

According to the model, until 16:00 the current was outbound from Guanabara Bay (From North to South ↓); EasyCurrents verifies the model (samples 002 - 007), but has sensed the current direction change a bit earlier, around 15.30h. Regarding the second set of samples (007 – 016), with current inbound direction (From South to North ↑), the differences between EasyCurrents measurements and the model were almost imperceptible, having being carried out in different spots within the bay. Model intensities ranged 0 – 0.2 m/s, whilst EasyCurrents measured some peaks above 0.25. Possible wrong measurements may have taken place regarding direction in sample 003 and intensity in sample 006. Direction discordances in samples 008 and 009, are not considered as an error, but as a model correction regarding the previously mentioned current direction change time.