

```

%
% Columns are: [fltID, mission length, IMEI, ballast depth, date down YYYYMMDD, time down GMT, lat
launch,
% lon launch, date up YYYYMMDD, time up GMT, lat surface, lon surface,
% flt_clockoffset_init correction (sec, negative (-) means flt clock fast) flt_clockoffset_final
correction
% (sec, negative (-) offset means float clock fast).
% For example: if GPS module (with correction for ~15 secnd offset) reads 11:10:55
% and float clock reads 11:10:52, then yeilds 3.0 s correction applied to RAFOS data.
%
% Updated 09 November 2015, hhfurey, WHOI.
%
% RAFOS-equipped APEX : clock drifts for APEX we applied according to APEX clock adjusments.
% look to 'Excessive RTC skew' in raw data files. Each instrument had ~10 skew corrections
over course
% of deployment.
%
7036 999 300224010645360 1500 20121004 0155 27.467 -87.404 20151004 0155 42.162 -66.027 0 0
7544 999 300224010641360 1500 20110719 1800 25.688 -86.145 20130823 1800 24.671 -80.253 0 0
7658 999 300224010643240 1500 20120127 1005 27.453 -88.571 20150929 1800 27.110 -93.300 0 0
7590 999 300224010647550 1500 20120117 0155 25.783 -88.228 20151006 1004 20.983 -96.413 0 0
7671 999 300224010946330 1500 20120712 0155 23.201 -90.531 20150924 1800 26.880 -88.925 0 0
8405 999 300025010719970 1500 20120710 0155 24.016 -94.819 20150923 0155 25.419 -94.244 0 0
8512 999 999999999999999 1500 20120925 1800 21.061 -94.761 20150930 0155 24.540 -88.420 0 0
%
% RAFOS, grouped by deployment. If instrument did not return data, it is not included here.
% R/V Pelican cruise July 2011, pressure leak flts, all flts replaced, overwrite floats.
%
1018 730 300234010506300 1500 20110720 1509 27.293 -89.786 20110814 0430 27.126 -90.319 0 -2
1019 315 300234010702530 1500 20110720 1509 27.293 -89.786 20110814 1810 26.990 -90.254 0 -1
1024 315 300234010554960 1500 20110720 0905 26.502 -89.253 20120530 2105 26.563 -87.442 0 0
1025 730 300234010557950 1500 20110720 0905 26.502 -89.253 20120808 0046 24.830 -84.356 0 0
1028 730 300234010552950 1500 20110722 0550 25.924 -91.134 20130721 2115 25.368 -85.015 -1 0
1029 315 300234010558960 1500 20110722 0550 25.924 -91.134 20120601 2115 23.974 -95.194 -2 0
1032 730 300234010250590 1500 20110722 0122 26.133 -91.834 20110929 0100 25.750 -95.215 0 0
1033 315 300234010556960 1500 20110722 0122 26.133 -91.834 20120601 2102 40.087 -51.031 0 -2

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1036	730	300234010326640	1500	20110719	0618	25.653	-86.193	20110801	0216	25.118	-85.588	0	-1
1037	315	300234010138700	1500	20110719	0618	25.653	-86.193	20120529	2102	22.925	-84.463	0	-1
1038	315	300234010119350	1500	20110720	0233	25.836	-88.408	20120530	2103	25.740	-86.525	1	-2
1039	730	300234010137980	1500	20110720	0233	25.836	-88.408	20130719	2103	27.843	-87.572	0	0
1040	730	300234010135530	1500	20110716	1805	27.005	-87.498	20120326	1855	27.320	-91.270	0	-1
1041	730	300234010130990	1500	20110717	0548	27.900	-86.833	20130716	2105	27.330	-90.382	0	-7
1042	730	300234010551950	1500	20110717	1923	26.530	-85.756	20130716	2106	25.589	-84.709	0	-6
1043	730	300234010550960	1500	20110717	1156	27.250	-86.251	20130716	2103	27.131	-85.710	0	0
1044	730	300234010555950	1500	20110719	1710	25.750	-87.249	20130718	2105	25.798	-92.091	0	-1
1045	730	300234010115360	1500	20110719	1710	25.750	-87.249	20130718	2107	26.982	-88.783	0	-2
1046	180	300234010115350	1500	20110718	2325	26.304	-85.299	20120114	2117	27.782	-87.140	0	-1
1047	730	300234010553960	1500	20110718	2325	26.304	-85.299	20130717	2127	23.734	-96.004	0	-1
1048	730	300234010113360	2500	20110719	1710	25.750	-87.249	20110810	0542	25.894	-88.425	0	-1
1049	730	300234010551960	2500	20110719	0618	25.653	-86.193	20130718	2103	24.225	-84.923	0	1
1050	730	300234010114360	2500	20110718	1525	25.598	-85.006	20110807	1110	24.269	-84.568	0	-1
1051	730	300234010112350	2500	20110718	2325	26.304	-85.299	20130717	2109	23.328	-85.250	0	0
1052	730	300234010110360	2500	20110717	1923	26.530	-85.756	20110801	1028	25.240	-85.109	0	-1
1054	730	300234010111350	2500	20110720	0905	26.502	-89.253	20130802	0530	26.621	-89.230	0	-5
1055	730	300234010552960	2500	20110720	0233	25.836	-88.408	20110728	1408	25.972	-88.921	0	0

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% R/V Pelican cruise January 2012, replacement floats, overwrite floats.

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1021	730	300234010137530	1500	20120115	1931	25.835	-88.408	20120904	2128	26.477	-93.278	0	-2
1026	730	300234010253590	1500	20120116	0841	27.294	-89.787	20120311	0217	26.695	-90.766	0	-3
1068	730	300234010466110	1500	20120116	2155	25.924	-91.133	20140115	2103	22.835	-92.969	0	-1
1069	730	300234010587230	1500	20120117	0250	26.133	-91.834	20140116	2104	26.748	-86.415	0	-1
1070	90	300234010582230	1500	20120114	2010	25.303	-86.083	20120413	2104	25.262	-87.820	0	-1
1071	730	300234010587240	1500	20120115	0400	25.750	-87.249	20140114	2121	26.680	-87.325	0	0
1072	730	300234010583230	1500	20120114	0505	26.304	-85.298	20140113	2103	25.761	-85.471	0	-1
1073	730	300234010586240	1500	20120117	0250	26.133	-91.834	20140116	2102	24.865	-84.806	0	-2
1074	90	300234010582240	1500	20120116	2155	25.924	-91.133	20120415	2105	25.406	-89.227	0	-1
1075	730	300234010580240	1500	20120114	2010	25.303	-86.083	20140113	2103	25.095	-85.840	0	-1
1076	730	300234010589240	2500	20120114	0505	26.304	-85.298	20140114	1929	25.806	-91.582	0	0
1077	730	300234010589230	2500	20120114	1021	25.597	-85.005	20140113	2106	23.934	-83.990	0	-1
1079	730	300234010582250	2500	20120114	0130	26.531	-85.755	20140113	2127	25.252	-85.156	0	-1
1081	730	300234010581240	2500	20120116	2155	25.924	-91.133	20130322	1219	21.322	-93.993	0	-2

1082	730	300234010584250	2500	20120115	1931	25.835	-88.407	20140115	1225	23.760	-95.771	0	-2
1083	730	300234010588230	2500	20120115	0400	25.750	-87.249	20140114	2114	27.897	-86.405	0	0

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% R/V Justo Sierra cruise JuneJuly 2012, overwrite floats.

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1084	730	300234010725580	1500	20120710	2359	22.633	-92.133	20140711	2102	25.071	-88.885	0	-2
1085	730	300234010320610	1500	20120710	2359	22.633	-92.133	20140711	2107	25.367	-94.060	0	0
1086	730	300234010734180	1500	20120623	2131	23.384	-95.182	20140626	0031	20.529	-94.926	0	-1
1087	730	300234010327600	1500	20120623	2130	23.384	-95.182	20140626	0033	23.366	-91.380	0	0
1088	730	300234010729560	1500	20120623	1635	24.082	-95.635	20140626	0031	24.280	-91.098	0	-1
1089	730	300234010722590	1500	20120623	1634	24.082	-95.634	20140626	0031	21.114	-93.982	0	-1
1090	730	300234010586230	1500	20120623	1248	24.622	-96.005	20140627	0002	20.036	-94.541	0	1
1091	730	300234010721570	1500	20120623	1246	24.622	-96.005	20140626	0031	19.678	-94.542	0	-1
1092	730	300234010720570	1500	20120624	0433	20.375	-95.920	20140626	0045	25.048	-91.085	0	-1
1093	730	300234010137170	1500	20120612	0436	20.375	-95.920	20140626	0047	23.812	-93.132	0	-1
1094	730	300234010134170	1500	20120710	1536	23.162	-90.552	20140318	1710	24.375	-86.607	0	-1
1095	730	300234010323610	1500	20120710	1536	23.162	-90.552	20140710	2123	25.503	-91.155	0	-1

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% R/V Justo Sierra Sept 2012 replacement cruise

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1056	630	300234010729580	1500	20120912	0342	23.395	-95.160	20140604	2114	20.458	-95.721	0	0
1057	630	300234010460190	1500	20120912	0343	23.395	-95.161	20140604	2114	20.620	-95.918	0	0
1059	630	300234010468190	1500	20120912	1538	23.692	-96.539	20140604	2114	21.332	-93.342	0	-1
1060	630	300234010463200	1500	20120913	2211	22.147	-96.633	20140605	2114	24.313	-93.362	0	-1
1061	630	300234010460200	1500	20120913	2209	22.147	-96.633	20140605	2114	24.017	-93.297	0	1
1062	630	300234010468110	1500	20120910	0549	25.362	-95.442	20140602	2114	21.688	-95.857	0	0
1064	630	300234010464120	1500	20120910	2334	25.121	-95.272	20140603	2114	24.509	-91.797	0	-1
1067	630	300234010469110	1500	20120910	2332	25.121	-95.272	20140603	2114	24.919	-95.041	0	0
1096	630	300234010133170	1500	20120923	0247	20.672	-93.402	20140615	2102	23.718	-89.351	0	-3
1097	630	300234010721590	1500	20120923	0248	20.672	-93.402	20140615	2106	23.322	-91.066	0	-1
1098	630	300234010328610	1500	20120924	1518	20.990	-94.740	20140616	2125	22.665	-93.782	0	0
1099	630	300234010322620	1500	20120924	1520	20.990	-94.740	20140616	2102	24.283	-92.663	0	0
1100	630	300234010720590	1500	20120915	1626	20.667	-95.911	20140607	2102	23.189	-90.364	0	0
1101	630	300234010723570	1500	20120915	1627	20.667	-95.910	20140607	2114	24.034	-93.844	0	0
1102	630	300234010722570	1500	20120918	1930	19.280	-95.194	20140607	2102	24.699	-94.746	0	-1
1103	630	300234010723590	1500	20120918	1931	19.280	-95.194	20140610	2104	22.718	-93.772	0	-1

1104	630	300234010131170	1500	20120915	0237	21.858	-94.032	20140607	2105	24.307	-95.472	0	0
1105	630	300234010726580	1500	20120915	0239	21.859	-94.032	20140607	2104	22.469	-93.666	0	-4
1106	630	300234010729580	1500	20120910	0544	25.356	-95.445	20140602	2114	22.900	-96.870	0	0
1107	630	300234010728580	1500	20120910	0547	25.361	-95.443	20140602	2103	24.380	-93.714	0	-1

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% R/V Bellow FL Sept 2012 replacement cruise

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1108	630	300234011471420	1500	20120916	2155	25.951	-88.166	20140609	2157	24.265	-84.831	0	0
1109	630	300234011472190	1500	20120915	2059	24.833	-85.335	20140607	2102	24.737	-84.953	0	0
1110	630	300234011378250	1500	20120915	1350	25.599	-84.998	20140607	2102	24.261	-86.184	0	0
1111	630	300234011478160	1500	20120915	1350	25.599	-84.998	20140607	2103	21.061	-86.039	0	0
1112	630	300234011479510	1500	20120917	2326	28.002	-87.882	20140610	2103	27.156	-87.394	0	1
1113	630	300234011472450	1500	20120917	2326	28.002	-87.882	20140610	2103	26.897	-86.550	0	0
1114	630	300234011473520	1500	20120916	0834	25.393	-86.759	20140608	2102	26.420	-90.518	0	0
1115	630	300234011475510	1500	20120916	1234	25.393	-86.759	20130320	0357	26.439	-87.319	0	1
1116	630	300234011477520	1500	20120918	0959	27.615	-87.194	20140610	2102	22.871	-84.717	0	0
1117	630	300234011477240	1500	20120918	0959	27.615	-87.194	20140610	2105	27.151	-88.845	0	0
1118	630	300234011475240	1500	20120919	0221	27.334	-85.584	20140611	2105	25.173	-86.622	0	1
1119	630	300234011476510	1500	20120919	0221	27.334	-85.584	20140611	2102	28.174	-86.793	0	1
1121	630	300234011476460	1500	20120916	2155	25.951	-88.166	20140609	2102	25.924	-94.775	0	0
1122	630	300234011474240	1500	20120915	2059	24.833	-85.335	20140608	2102	25.699	-87.108	0	1
1123	630	300234011474520	1500	20120915	2059	24.833	-85.335	20140608	2114	24.794	-86.316	0	1
1124	630	300234011476520	1500	20120918	1942	27.467	-86.367	20140611	2102	26.766	-91.308	0	0
1125	630	300234011474510	1500	20120918	1942	27.467	-86.367	20140611	2102	25.530	-87.187	0	0
1126	630	300234011476240	1500	20120917	2326	28.002	-87.882	20140610	2102	27.611	-88.607	0	0
1127	630	300234011473170	1500	20120919	0221	27.334	-85.584	20140611	2102	26.036	-92.426	0	0
1148	630	300234011473160	2500	20120916	0833	25.393	-86.759	20140608	2102	24.892	-87.363	0	0
1149	630	300234011471190	2500	20120916	0833	25.393	-86.759	20140608	2102	27.386	-86.142	0	0
1150	630	300234011474460	2500	20120916	2154	25.951	-88.167	20140530	2107	25.021	-85.473	0	0
1151	630	300234011472160	2500	20120915	1349	24.833	-85.335	20140608	2102	26.396	-89.381	0	0
1152	630	300234011479180	2500	20120919	0220	27.334	-85.584	20140611	2103	22.215	-94.893	0	0
1153	630	300234011479440	2500	20120919	0220	27.334	-85.584	20140611	2102	25.995	-93.833	0	1
1154	630	300234011478180	2500	20120916	2154	25.951	-88.167	20140609	2127	25.511	-90.249	0	1
1155	630	300234011470170	2500	20120915	2154	25.951	-88.167	20140609	2114	26.418	-89.424	0	1
1156	630	300234011472170	2500	20120915	1349	25.599	-84.997	20140607	2114	24.818	-88.129	0	0
1157	630	300234010322610	2500	20120915	1349	25.599	-84.997	20140607	2127	27.602	-86.652	0	0

1158	630	300234011477160	2500	20120918	1941	27.467	-86.366	20140611	2116	27.632	-86.485	0	0
1159	630	300234011474160	2500	20120919	0220	27.334	-85.584	20140611	2106	26.451	-90.627	0	0
1160	630	300234011475160	2500	20120915	1349	24.833	-85.335	20140608	2102	26.558	-85.755	0	1
1161	630	300234011476160	2500	20120915	1349	24.833	-85.335	20140610	0535	26.035	-91.222	0	0
1163	630	300234011476150	2500	20120918	1941	27.467	-86.366	20140611	2103	24.963	-85.320	0	-2

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% R/V Acadiana LA Sept 2012 replacement cruise.

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1128	630	300234010136170	1500	20120925	0230	27.300	-89.334	20140617	2103	27.451	-89.838	0	0
1129	630	300234010132180	1500	20120925	0230	27.300	-89.334	20140617	2103	23.319	-83.662	1	1
1130	630	300234011471520	1500	20120925	0230	27.300	-89.334	20140617	2114	21.990	-96.447	0	0
1131	630	300234010139170	1500	20120925	0644	26.582	-89.559	20140617	2102	27.290	-86.810	0	0
1132	630	300234010262530	1500	20120925	0644	26.582	-89.559	20140617	2103	26.120	-89.380	0	0
1134	630	300234011470520	1500	20120925	1122	25.867	-89.800	20140617	2102	25.360	-95.170	1	0
1135	630	300234011478510	1500	20120925	1122	25.867	-89.800	20140617	2102	28.240	-87.850	1	1
1136	630	300234010269230	1500	20120925	1122	25.867	-89.800	20140617	2103	25.070	-86.410	1	1
1137	630	300234011472510	1500	20120925	1701	25.917	-90.802	20140617	2106	25.170	-85.540	1	0
1138	630	300234011476450	1500	20120925	1701	25.917	-90.802	20140617	2103	25.990	-87.260	0	0
1139	630	300234011474450	1500	20120925	1701	25.917	-90.802	20140617	2103	21.540	-93.300	0	0
1140	630	300234011477510	1500	20120925	2213	25.951	-91.801	20140618	2114	19.720	-95.630	0	0
1142	630	300234011472460	1500	20120926	0320	26.167	-92.801	20140618	2114	26.380	-93.830	0	1
1143	630	300234011473510	1500	20120926	0320	26.167	-92.801	20140619	0606	26.980	-93.000	0	0
1144	630	300234011478520	1500	20120926	0320	26.167	-92.801	20140618	2103	25.880	-95.090	1	0
1145	630	300234011379250	1500	20120926	0730	26.334	-92.116	20140618	2102	24.742	-87.287	1	0
1146	630	300234011471510	1500	20120926	0730	26.334	-92.116	20140618	2104	24.777	-95.718	1	0
1147	630	300234011470450	1500	20120926	0730	26.334	-92.116	20140619	0457	22.972	-96.490	1	1

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% R/V Justo Sierra MX June 2013.

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1226	630	300234060308610	1500	20130615	0739	23.600	-90.017	20150307	2102	24.953	-95.435	0	-27
1227	630	300234060300480	1500	20130630	0414	21.620	-92.581	20150322	2101	24.521	-86.236	0	-24
1228	630	300234060303610	1500	20130701	0635	21.245	-95.432	20150323	2102	25.953	-92.254	0	-37
1229	630	300234060308470	1500	20130701	0636	21.245	-95.432	20150323	2101	23.258	-94.230	-2	-74
1230	630	300234060400130	1500	20130615	0826	24.005	-92.001	20150307	2103	23.541	-94.732	-3	-74
1232	630	300234060300620	1500	20130630	0415	21.620	-92.582	20150322	2102	26.452	-89.160	0	-39
1233	630	300234060309470	1500	20130615	0736	23.601	-90.017	20150307	2102	23.263	-90.888	0	-35

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% R/V Pelican LA August 2013.

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1223	630	300234060307210	1500	20130822	1739	25.599	-88.368	20150514	2101	27.035	-86.003	-2	-23
1224	630	300234060304480	1500	20130822	1738	25.598	-88.368	20150514	2101	28.511	-87.717	-2	-27
1234	630	300234060302480	1500	20130803	0255	26.056	-86.704	20150424	2101	26.751	-87.756	0	-27
1236	630	300234060879200	1500	20130801	2042	27.603	-88.106	20150423	2101	24.564	-96.143	-2	-50
1237	630	300234060873240	1500	20130801	2024	27.603	-88.106	20150423	2102	25.782	-85.196	0	-2
1238	630	300234060874230	1500	20130824	1748	25.524	-93.444	20150516	2101	25.903	-88.361	0	-62
1239	630	300234060872230	1500	20130824	1748	25.524	-93.444	20150516	2101	24.892	-90.739	0	-52
1240	630	300234060871220	1500	20130820	2135	25.306	-91.485	20150512	2101	25.374	-92.287	0	-24
1241	630	300234060871210	1500	20130820	2134	25.306	-91.485	20150512	2104	20.587	-95.876	0	-20
1242	630	300234060876200	1500	20130806	2114	27.399	-86.749	20150428	2105	28.219	-87.615	0	-34
1243	630	300234060778720	1500	20130806	2114	27.399	-86.749	20150428	2100	26.900	-89.337	0	-95
1244	630	300234060777700	1500	20130819	2024	23.837	-92.835	20150512	1339	22.864	-92.184	0	-4
1245	630	300234060775690	1500	20130819	2024	23.837	-92.835	20150511	2102	25.062	-95.026	0	-16
1249	630	300234060304470	2500	20130822	1737	25.599	-88.368	20150514	2102	26.192	-90.998	2	-54
1250	630	300234060774710	2500	20130822	1738	25.599	-88.368	20150514	2241	25.904	-91.492	0	-48
1252	630	300234060773580	2500	20130803	0254	26.056	-86.704	20150425	2121	23.356	-84.382	0	-44
1253	630	300234060779710	2500	20130806	2113	27.399	-86.749	20150428	2110	25.783	-88.613	0	-33
1254	630	300234060775670	2500	20130822	1737	25.598	-88.368	20150514	2104	24.937	-89.565	0	-21
1255	630	300234010135180	2500	20130806	2113	27.399	-86.749	20150428	2105	26.826	-85.262	0	-62
1256	630	300234060771700	2500	20130803	0253	26.056	-86.704	20150425	2107	25.176	-89.811	0	-87

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% Justo Sierra MX September 2013.

% float number 9999 is s/n 1070 second use.

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1235	630	300234060402570	1500	20130924	2203	22.324	-96.073	20150616	2103	21.349	-94.150	-1	-41
1246	630	300234060775720	1500	20130924	2201	22.265	-96.073	20150616	2101	21.424	-94.728	0	-48
1247	630	300234060778670	1500	20131005	1118	21.858	-94.025	20150627	2101	25.695	-90.549	0	-13
1248	630	300234060776680	1500	20131005	1121	21.859	-94.024	20150627	2101	24.831	-87.137	0	-38
1065	630	300234010465120	1500	20130926	1031	20.743	-95.801	20150618	2115	24.578	-91.107	0	0
9999	630	300234010582230	1500	20130923	1618	23.635	-96.483	20150615	2104	19.760	-94.480	0	0
1172	630	300234010720580	1500	20130923	1617	23.635	-96.484	20150615	2103	23.587	-92.440	0	0
1220	630	300234010733180	1500	20130923	1620	23.635	-96.483	20150615	2103	21.900	-92.806	0	1

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% END
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