



Km Units View From $\gamma = 0.0^\circ$, $P = 0.0^\circ$, $R = 15.0^\circ$
 Sun-Centered J2KE Coordinate System
 Short way from post-Pluto New Horizons to KBO 2014 PN70

New Horizons Post-Pluto Flyby Course Correction Δv (km/s)

2014 PN70 Arrive Date	Post-Pluto Coast Depart Date																		
	9/1/15	9/5/15	9/9/15	9/13/15	9/17/15	9/21/15	9/25/15	9/29/15	10/3/15	10/7/15	10/11/15	10/15/15	10/19/15	10/23/15	10/27/15	10/31/15	11/4/15	11/8/15	11/12/15
9/15/18	2.462	2.471	2.480	2.489	2.498	2.507	2.517	2.526	2.535	2.545	2.554	2.564	2.574	2.583	2.593	2.603	2.613	2.623	2.633
9/25/18	2.311	2.319	2.328	2.336	2.345	2.353	2.362	2.370	2.379	2.388	2.397	2.406	2.415	2.424	2.433	2.442	2.451	2.461	2.470
10/5/18	2.163	2.170	2.178	2.186	2.194	2.202	2.210	2.218	2.226	2.234	2.242	2.250	2.259	2.267	2.276	2.284	2.293	2.301	2.310
10/15/18	2.017	2.024	2.031	2.038	2.046	2.053	2.060	2.068	2.075	2.083	2.090	2.098	2.106	2.113	2.121	2.129	2.137	2.145	2.153
10/25/18	1.874	1.880	1.887	1.894	1.900	1.907	1.914	1.921	1.928	1.934	1.941	1.948	1.956	1.963	1.970	1.977	1.984	1.992	1.999
11/4/18	1.733	1.739	1.745	1.751	1.757	1.764	1.770	1.776	1.782	1.789	1.795	1.802	1.808	1.815	1.821	1.828	1.834	1.841	1.848
11/14/18	1.595	1.601	1.606	1.612	1.617	1.623	1.628	1.634	1.640	1.646	1.652	1.657	1.663	1.669	1.675	1.681	1.687	1.693	1.700
11/24/18	1.459	1.464	1.469	1.474	1.479	1.484	1.490	1.495	1.500	1.505	1.510	1.516	1.521	1.527	1.532	1.537	1.543	1.548	1.554
12/4/18	1.326	1.330	1.335	1.339	1.344	1.349	1.353	1.358	1.362	1.367	1.372	1.377	1.382	1.386	1.391	1.396	1.401	1.406	1.411
12/14/18	1.195	1.199	1.203	1.207	1.211	1.215	1.219	1.223	1.227	1.232	1.236	1.240	1.244	1.249	1.253	1.258	1.262	1.266	1.271
12/24/18	1.066	1.069	1.073	1.077	1.080	1.084	1.087	1.091	1.095	1.099	1.102	1.106	1.110	1.114	1.118	1.121	1.125	1.129	1.133
1/3/19	0.939	0.942	0.946	0.949	0.952	0.955	0.958	0.961	0.965	0.968	0.971	0.974	0.978	0.981	0.984	0.988	0.991	0.995	0.998
1/13/19	0.815	0.818	0.820	0.823	0.826	0.829	0.831	0.834	0.837	0.840	0.842	0.845	0.848	0.851	0.854	0.857	0.860	0.863	0.866
1/23/19	0.693	0.695	0.698	0.700	0.702	0.705	0.707	0.709	0.712	0.714	0.716	0.719	0.721	0.723	0.726	0.728	0.731	0.733	0.736
2/2/19	0.574	0.576	0.577	0.579	0.581	0.583	0.585	0.587	0.589	0.591	0.593	0.595	0.597	0.599	0.601	0.602	0.605	0.607	0.609
2/12/19	0.457	0.459	0.460	0.462	0.463	0.465	0.466	0.467	0.469	0.471	0.472	0.474	0.475	0.477	0.478	0.480	0.481	0.483	0.485
2/22/19	0.344	0.345	0.346	0.347	0.349	0.350	0.351	0.352	0.353	0.354	0.355	0.356	0.357	0.359	0.360	0.361	0.362	0.363	0.364
3/4/19	0.237	0.238	0.239	0.239	0.240	0.241	0.241	0.242	0.243	0.244	0.245	0.245	0.246	0.247	0.248	0.248	0.249	0.250	0.251
3/14/19	0.145	0.145	0.146	0.146	0.147	0.147	0.148	0.148	0.148	0.149	0.149	0.150	0.150	0.151	0.151	0.152	0.152	0.153	0.153
3/24/19	0.108	0.108	0.108	0.109	0.109	0.109	0.110	0.110	0.110	0.111	0.111	0.111	0.112	0.112	0.113	0.113	0.113	0.114	0.114
4/3/19	0.164	0.164	0.165	0.165	0.166	0.166	0.167	0.167	0.168	0.169	0.169	0.170	0.170	0.171	0.171	0.172	0.173	0.173	0.174
4/13/19	0.256	0.257	0.258	0.258	0.259	0.260	0.261	0.262	0.263	0.264	0.264	0.265	0.266	0.267	0.268	0.269	0.270	0.271	0.272
4/23/19	0.356	0.357	0.358	0.359	0.361	0.362	0.363	0.364	0.365	0.366	0.367	0.369	0.370	0.371	0.372	0.373	0.375	0.376	0.377
5/3/19	0.458	0.459	0.460	0.462	0.463	0.465	0.466	0.468	0.469	0.471	0.472	0.474	0.475	0.477	0.478	0.480	0.481	0.483	0.484
5/13/19	0.559	0.561	0.562	0.564	0.566	0.568	0.569	0.571	0.573	0.575	0.577	0.578	0.580	0.582	0.584	0.586	0.588	0.590	0.591
5/23/19	0.660	0.662	0.664	0.666	0.668	0.670	0.672	0.674	0.676	0.678	0.680	0.682	0.684	0.687	0.689	0.691	0.693	0.695	0.697
6/2/19	0.759	0.762	0.764	0.766	0.768	0.771	0.773	0.775	0.778	0.780	0.783	0.785	0.787	0.790	0.792	0.795	0.797	0.800	0.802
6/12/19	0.858	0.860	0.863	0.865	0.868	0.871	0.873	0.876	0.878	0.881	0.884	0.886	0.889	0.892	0.895	0.897	0.900	0.903	0.906
6/22/19	0.955	0.958	0.960	0.963	0.966	0.969	0.972	0.975	0.978	0.981	0.984	0.987	0.990	0.993	0.996	0.999	1.002	1.005	1.008
7/2/19	1.051	1.054	1.057	1.060	1.063	1.066	1.069	1.072	1.076	1.079	1.082	1.085	1.089	1.092	1.095	1.099	1.102	1.105	1.109
7/12/19	1.145	1.149	1.152	1.155	1.159	1.162	1.165	1.169	1.172	1.176	1.179	1.183	1.186	1.190	1.193	1.197	1.201	1.204	1.208
7/22/19	1.239	1.242	1.246	1.249	1.253	1.257	1.260	1.264	1.268	1.271	1.275	1.279	1.283	1.286	1.290	1.294	1.298	1.302	1.306
8/1/19	1.331	1.334	1.338	1.342	1.346	1.350	1.354	1.358	1.362	1.366	1.370	1.374	1.378	1.382	1.386	1.390	1.394	1.398	1.402
8/11/19	1.422	1.426	1.430	1.434	1.438	1.442	1.446	1.450	1.454	1.459	1.463	1.467	1.471	1.476	1.480	1.484	1.489	1.493	1.498
8/21/19	1.511	1.515	1.520	1.524	1.528	1.533	1.537	1.541	1.546	1.550	1.555	1.559	1.564	1.568	1.573	1.577	1.582	1.587	1.591
8/31/19	1.600	1.604	1.608	1.613	1.617	1.622	1.627	1.631	1.636	1.641	1.645	1.650	1.655	1.659	1.664	1.669	1.674	1.679	1.684
9/10/19	1.687	1.691	1.696	1.701	1.706	1.710	1.715	1.720	1.725	1.730	1.735	1.740	1.744	1.749	1.755	1.760	1.765	1.770	1.775

KBO 2014 PN70 Flyby Speed (km/s)

2014 PN70 Arrive Date	Post-Pluto Coast Depart Date																		
	9/1/15	9/5/15	9/9/15	9/13/15	9/17/15	9/21/15	9/25/15	9/29/15	10/3/15	10/7/15	10/11/15	10/15/15	10/19/15	10/23/15	10/27/15	10/31/15	11/4/15	11/8/15	11/12/15
9/15/18	16.970	16.978	16.987	16.996	17.005	17.015	17.024	17.033	17.042	17.052	17.061	17.071	17.081	17.090	17.100	17.110	17.120	17.130	17.140
9/25/18	16.818	16.826	16.834	16.843	16.851	16.860	16.868	16.877	16.885	16.894	16.903	16.912	16.921	16.930	16.939	16.948	16.957	16.967	16.976
10/5/18	16.669	16.676	16.684	16.692	16.700	16.707	16.715	16.723	16.731	16.739	16.748	16.756	16.764	16.773	16.781	16.789	16.798	16.807	16.815
10/15/18	16.522	16.529	16.536	16.543	16.551	16.558	16.565	16.573	16.580	16.588	16.595	16.603	16.610	16.618	16.626	16.634	16.642	16.650	16.658
10/25/18	16.378	16.384	16.391	16.398	16.404	16.411	16.418	16.425	16.431	16.438	16.445	16.452	16.459	16.466	16.474	16.481	16.488	16.495	16.503
11/4/18	16.236	16.242	16.248	16.254	16.261	16.267	16.273	16.279	16.285	16.292	16.298	16.304	16.311	16.317	16.324	16.331	16.337	16.344	16.351
11/14/18	16.097	16.103	16.108	16.114	16.119	16.125	16.131	16.136	16.142	16.148	16.153	16.159	16.165	16.171	16.177	16.183	16.189	16.195	16.201
11/24/18	15.960	15.965	15.970	15.975	15.980	15.986	15.991	15.996	16.001	16.006	16.011	16.017	16.022	16.027	16.033	16.038	16.044	16.049	16.055
12/4/18	15.826	15.830	15.835	15.839	15.844	15.849	15.853	15.858	15.862	15.867	15.872	15.877	15.881	15.886	15.891	15.896	15.901	15.906	15.911
12/14/18	15.694	15.698	15.702	15.706	15.710	15.714	15.718	15.722	15.726	15.730	15.735	15.739	15.743	15.747	15.752	15.756	15.761	15.765	15.769
12/24/18	15.564	15.567	15.571	15.574	15.578	15.581	15.585	15.589	15.592	15.596	15.600	15.604	15.607	15.611	15.615	15.619	15.623	15.627	15.631
1/3/19	15.436	15.439	15.442	15.445	15.448	15.451	15.454	15.458	15.461	15.464	15.467	15.471	15.474	15.477	15.480	15.484	15.487	15.491	15.494
1/13/19	15.310	15.312	15.315	15.318	15.320	15.323	15.326	15.329	15.331	15.334	15.337	15.340	15.343	15.345	15.348	15.351	15.354	15.357	15.360
1/23/19	15.186	15.188	15.190	15.193	15.195	15.197	15.200	15.202	15.204	15.206	15.209	15.211	15.214	15.216	15.218	15.221	15.223	15.226	15.228
2/2/19	15.064	15.066	15.068	15.070	15.071	15.073	15.075	15.077	15.079	15.081	15.083	15.085	15.087	15.089	15.091	15.093	15.095	15.097	15.099
2/12/19	14.944	14.946	14.947	14.949	14.950	14.951	14.953	14.954	14.956	14.957	14.959	14.960	14.962	14.963	14.965	14.966	14.968	14.970	14.971
2/22/19	14.826	14.827	14.828	14.829	14.830	14.832	14.833	14.834	14.835	14.836	14.837	14.838	14.839	14.840	14.841	14.842	14.844	14.845	14.846
3/4/19	14.710	14.711	14.711	14.712	14.713	14.714	14.714	14.715	14.716	14.716	14.717	14.718	14.718	14.719	14.720	14.721	14.721	14.722	14.723
3/14/19	14.596	14.596	14.596	14.597	14.597	14.597	14.598	14.598	14.598	14.599	14.599	14.599	14.600	14.600	14.600	14.601	14.601	14.601	14.602
3/24/19	14.483	14.483	14.483	14.483	14.483	14.483	14.483	14.483	14.483	14.483	14.483	14.483	14.483	14.483	14.483	14.483	14.483	14.482	14.482
4/3/19	14.372	14.372	14.372	14.371	14.371	14.370	14.370	14.370	14.369	14.369	14.368	14.368	14.368	14.367	14.367	14.366	14.366	14.366	14.365
4/13/19	14.263	14.262	14.262	14.261	14.260	14.260	14.259	14.258	14.257	14.257	14.256	14.255	14.254	14.254	14.253	14.252	14.251	14.251	14.250
4/23/19	14.156	14.155	14.154	14.153	14.152	14.150	14.149	14.148	14.147	14.146	14.145	14.144	14.143	14.142	14.141	14.140	14.139	14.137	14.136
5/3/19	14.050	14.048	14.047	14.046	14.044	14.043	14.042	14.040	14.039	14.037	14.036	14.035	14.033	14.032	14.030	14.029	14.027	14.026	14.025
5/13/19	13.945	13.944	13.942	13.940	13.939	13.937	13.935	13.934	13.932	13.930	13.929	13.927	13.925	13.923	13.922	13.920	13.918	13.916	13.915
5/23/19	13.843	13.841	13.839	13.837	13.835	13.833	13.831	13.829	13.827	13.825	13.823	13.821	13.819	13.817	13.815	13.813	13.810	13.808	13.806
6/2/19	13.741	13.739	13.737	13.735	13.732	13.730	13.728	13.726	13.723	13.721	13.719	13.716	13.714	13.712	13.709	13.707	13.704	13.702	13.700
6/12/19	13.641	13.639	13.636	13.634	13.631	13.629	13.626	13.624	13.621	13.619	13.616	13.613	13.611	13.608	13.605	13.603	13.600	13.597	13.595
6/22/19	13.543	13.540	13.537	13.535	13.532	13.529	13.526	13.523	13.521	13.518	13.515	13.512	13.509	13.506	13.503	13.500	13.497	13.494	13.491
7/2/19	13.446	13.443	13.440	13.437	13.434	13.431	13.428	13.424	13.421	13.418	13.415	13.412	13.409	13.406	13.402	13.399	13.396	13.393	13.389
7/12/19	13.350	13.347	13.344	13.340	13.337	13.334	13.330	13.327	13.324	13.320	13.317	13.313	13.310	13.307	13.303	13.300	13.296	13.292	13.289
7/22/19	13.256	13.252	13.249	13.245	13.242	13.238	13.235	13.231	13.227	13.224	13.220	13.216	13.213	13.209	13.205	13.201	13.198	13.194	13.190
8/1/19	13.163	13.159	13.155	13.152	13.148	13.144	13.140	13.136	13.132	13.129	13.125	13.121	13.117	13.113	13.109	13.105	13.101	13.097	13.093
8/11/19	13.071	13.067	13.063	13.059	13.055	13.051	13.047	13.043	13.039	13.035	13.031	13.026	13.022	13.018	13.014	13.010	13.005	13.001	12.997
8/21/19	12.981	12.976	12.972	12.968	12.964	12.960	12.955	12.951	12.947	12.942	12.938	12.934	12.929	12.925	12.920	12.916	12.911	12.907	12.902
8/31/19	12.891	12.887	12.883	12.878	12.874	12.869	12.865	12.860	12.856	12.851	12.846	12.842	12.837	12.833	12.828	12.823	12.818	12.814	12.809
9/10/19	12.803	12.799	12.794	12.789	12.785	12.780	12.775	12.771	12.766	12.761	12.756	12.752	12.747	12.742	12.737	12.732	12.727	12.722	12.717