

9/15/2017	246	7.87	-16.3816	-15.07	-5.2292	13.0961	238.5281	236.9448	6.3157	6.7805	45.9748
9/30/2017	255	12.11	-7.5107	-6.89	-2.4916	14.6002	247.3990	245.6852	6.8363	7.7639	60.2776
10/1/2017	258	12.43	-4.5537	-4.17	-1.5203	13.9489	250.3559	248.6076	6.9740	6.9749	48.6496
10/4/2017	273	13.26	10.2311	9.39	3.3647	9.8986	265.1407	263.2910	7.3783	2.5202	6.3515
10/5/2017	274	14.02	11.2167	10.30	3.6748	10.3458	266.1264	264.2742	7.3880	2.9577	8.7480
10/6/2017	277	14.32	14.1737	13.03	4.5806	9.7385	269.0833	267.2272	7.4040	2.3345	5.4498
10/7/2017	278	14.81	15.1593	13.94	4.8734	9.9340	270.0690	268.2126	7.4050	2.5291	6.3963
10/8/2017	279	14.97	16.1450	14.85	5.1610	9.8113	271.0546	269.1986	7.4037	2.4076	5.7965
10/16/2017	280	17.45	17.1307	15.77	5.4431	12.0070	272.0403	270.1851	7.4003	4.6067	21.2220
10/27/2017	281	19.04	18.1163	16.68	5.7194	13.3245	273.0260	271.1722	7.3946	5.9299	35.1638
10/29/2017	289	19.55	26.0015	24.07	7.6864	11.8590	280.9112	279.0884	7.2711	4.5879	21.0486
11/3/2017	300	20.44	36.8437	34.46	9.4949	10.9483	291.7534	290.0292	6.8776	4.0706	16.5701
11/4/2017	302	20.15	38.8150	36.39	9.6913	10.4633	293.7247	292.0252	6.7792	3.6841	13.5725
11/5/2017	307	20.08	43.7433	41.24	9.9856	10.0992	298.6529	297.0239	6.4982	3.6011	12.9677
11/10/2017	308	19.91	44.7289	42.22	10.0098	9.9007	299.6386	298.0251	6.4361	3.4646	12.0035
11/11/2017	309	19.71	45.7146	43.20	10.0222	9.6917	300.6242	299.0268	6.3722	3.3195	11.0191
11/12/2017	316	19.64	52.6142	50.16	9.7756	9.8601	307.5238	306.0515	5.8729	3.9872	15.8975

Data for Marking (arrows) 6 points on Dec vs HA Plot to Right

Event	Date	DOY	Dec	HA	Have data for
WS	12/21/2016	356	-23.7	0.39	Same Date
VE	3/20/2017	79	0.37	-1.74	Same Date
AE	9/22/2017	265	2.89	1.97	9/15/17 and 9/30/17
SS	6/21/2017	172	23.53	-0.22	6/20/2017
Perihelion	1/4/2017	4	-22.53	-1.51	1/1/17 and 1/6/17
Aphelion	7/3/2017	194	22.86	-0.86	7/4/2017

