# Part 1: Data scraping and preparation

### Scraping your competitor's data

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```
In [1]: | #Imports
         import numpy as np
         import requests
         from bs4 import BeautifulSoup
         from urllib.parse import urlparse
         import pandas as pd
         r = requests.get('https://cmsc320.github.io/files/top-50-solar-flares.html')
         #Extracting the text, reading and parsing the data
          root = BeautifulSoup(r.content, "html.parser")
         #Using prettify to find the appropriate data - Too long so I commented it out
          #print(root.prettify())
         #Isolating the data in a table
         solartable = root.find("table")
         #Creating an empty datafram with the appropriate column names
          table = pd.DataFrame(columns=['rank', 'x_class', 'date', 'region', 'start_time', 'max_time',
                                              'end_time', 'movie'], index = range(0,50))
In [7]: | #Filling out the dataframe with the table data
         row marker = 0
         for row in solartable.find_all('tr'): #Iterating through rows
             column marker = 0
             columns = row.find all('td')
             row marker += 1
             for column in columns: #Iterating through each cell in the rows
                  if row_marker > 1: #First row has unwanted info so skip that
                      table.iloc[row_marker-2,column_marker] = column.get_text()
                      column_marker += 1
         table
            rank x_class
                               date region start_time max_time end_time
                                                                                  movie
                    X28+ 2003/11/04 0486
                                                19:29
                                                          19:53
                                                                   20:06 MovieView archive
                    X20+ 2001/04/02
                                     9393
                                                21:32
                                                          21:51
                                                                   22:03 MovieView archive
                   X17.2+ 2003/10/28
                                     0486
                                                09:51
                                                          11:10
                                                                    11:24 MovieView archive
                    X17+ 2005/09/07
                                     0808
                                                17:17
                                                          17:40
                                                                   18:03 MovieView archive
                    X14.4 2001/04/15
                                      9415
                                                13:19
                                                          13:50
                                                                   13:55 MovieView archive
                      X10 2003/10/29
                                     0486
                                                20:37
                                                          20:49
                                                                   21:01 MovieView archive
                     X9.4
                           1997/11/06
                                      8100
                                                11:49
                                                          11:55
                                                                    12:01 MovieView archive
                     X9.3 2017/09/06
                                                11:53
                                     2673
                                                                    12:10 MovieView archive
                          2006/12/05
                                      0930
                                                10:18
                                                          10:35
                                                                   10:45 MovieView archive
                          2003/11/02
                                                17:03
                                                          17:25
                                                                   17:39 MovieView archive
                          2017/09/10
                                                15:35
                                                          16:06
                                                                    16:31 MovieView archive
                     X7.1
                          2005/01/20
                                                06:36
                                                          07:01
                                                                   07:26 MovieView archive
                          2011/08/09
                                      1263
                                                07:48
                                                          08:05
                                                                   08:08 MovieView archive
              14
                          2006/12/06
                                      0930
                                                18:29
                                                          18:47
                                                                   19:00 MovieView archive
                     X6.2 2005/09/09
                                                 19:13
                                                          20:04
                                                                   20:36 MovieView archive
                          2001/12/13 9733
                                                14:20
                                                          14:30
                                                                   14:35 MovieView archive
                     X5.7 2000/07/14
                                      9077
                                                10:03
                                                          10:24
                                                                   10:43 MovieView archive
              18
                     X5.6 2001/04/06
                                     9415
                                                19:10
                                                          19:21
                                                                    19:31 MovieView archive
                     X5.4 2012/03/07
                                     1429
                                                00:02
                                                          00:24
                                                                   00:40 MovieView archive
                                               20:52
             20
                    X5.4 2005/09/08 0808
                                                          21:06
                                                                   21:17 MovieView archive
```

	rank	x_class	date	region	start_time	max_time	end_time	movie
20	21	X5.4	2003/10/23	0486	08:19	08:35	08:49	MovieView archive
21	22	X5.3	2001/08/25	9591	16:23	16:45	17:04	MovieView archive
22	23	X4.9	2014/02/25	1990	00:39	00:49	01:03	MovieView archive
23	24	X4.9	1998/08/18	8307	22:10	22:19	22:28	View archive
24	25	X4.8	2002/07/23	0039	00:18	00:35	00:47	MovieView archive
25	26	X4	2000/11/26	9236	16:34	16:48	16:56	MovieView archive
26	27	X3.9	2003/11/03	0488	09:43	09:55	10:19	MovieView archive
27	28	X3.9	1998/08/19	8307	21:35	21:45	21:50	View archive
28	29	X3.8	2005/01/17	0720	06:59	09:52	10:07	MovieView archive
29	30	X3.7	1998/11/22	8384	06:30	06:42	06:49	MovieView archive
30	31	X3.6	2005/09/09	0808	09:42	09:59	10:08	MovieView archive
31	32	X3.6	2004/07/16	0649	13:49	13:55	14:01	MovieView archive
32	33	X3.6	2003/05/28	0365	00:17	00:27	00:39	MovieView archive
33	34	X3.4	2006/12/13	0930	02:14	02:40	02:57	MovieView archive
34	35	X3.4	2001/12/28	9767	20:02	20:45	21:32	MovieView archive
35	36	X3.3	2013/11/05	1890	22:07	22:12	22:15	MovieView archive
36	37	X3.3	2002/07/20	0039	21:04	21:30	21:54	MovieView archive
37	38	X3.3	1998/11/28	8395	04:54	05:52	06:13	MovieView archive
38	39	X3.2	2013/05/14	1748	00:00	01:11	01:20	MovieView archive
39	40	X3.1	2014/10/24	2192	21:07	21:41	22:13	MovieView archive
40	41	X3.1	2002/08/24	0069	00:49	01:12	01:31	MovieView archive
41	42	Х3	2002/07/15	0030	19:59	20:08	20:14	MovieView archive
42	43	X2.8	2013/05/13	1748	15:48	16:05	16:16	MovieView archive
43	44	X2.8	2001/12/11	9733	07:58	08:08	08:14	MovieView archive
44	45	X2.8	1998/08/18	8307	08:14	08:24	08:32	View archive
45	46	X2.7	2015/05/05	2339	22:05	22:11	22:15	MovieView archive
46	47	X2.7	2003/11/03	0488	01:09	01:30	01:45	MovieView archive
47	48	X2.7	1998/05/06	8210	07:58	08:09	08:20	MovieView archive
48	49	X2.6	2005/01/15	0720	22:25	23:02	23:31	MovieView archive
49	50	X2.6	2001/09/24	9632	09:32	10:38	11:09	MovieView archive

# Tidying the top 50 solar flare dat

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In [9]: #Drop last column
table = table.drop('movie', axis=1)

#Combining the date and each of the three time columns into three datetime columns
table('start_datetime') = pd.to_datetime(table('date') + ' + table('start_time'))
table('mad_datetime') = pd.to_datetime(table('date') + ' + table('max_time'))
table('end_datetime') = pd.to_datetime(table('date') + ' + table('end_time'))

#New table with only the specified columns in the right order
table = table(['rank', 'x_class', 'start_datetime', 'max_datetime', 'end_datetime', 'region')]

table.replace('-','NaN') #No regions missing
table
```

Out[9]:		rank	x_class	start_datetime	max_datetime	end_datetime	region
	0	1	X28+	2003-11-04 19:29:00	2003-11-04 19:53:00	2003-11-04 20:06:00	0486
	1	2	X20+	2001-04-02 21:32:00	2001-04-02 21:51:00	2001-04-02 22:03:00	9393
	2	3	X17.2+	2003-10-28 09:51:00	2003-10-28 11:10:00	2003-10-28 11:24:00	0486
	3	4	X17+	2005-09-07 17:17:00	2005-09-07 17:40:00	2005-09-07 18:03:00	0808
	4	5	X14.4	2001-04-15 13:19:00	2001-04-15 13:50:00	2001-04-15 13:55:00	9415
	5	6	X10	2003-10-29 20:37:00	2003-10-29 20:49:00	2003-10-29 21:01:00	0486
	6	7	X9.4	1997-11-06 11:49:00	1997-11-06 11:55:00	1997-11-06 12:01:00	8100
	7	8	X9.3	2017-09-06 11:53:00	2017-09-06 12:02:00	2017-09-06 12:10:00	2673
	8	9	Х9	2006-12-05 10:18:00	2006-12-05 10:35:00	2006-12-05 10:45:00	0930
	9	10	X8.3	2003-11-02 17:03:00	2003-11-02 17:25:00	2003-11-02 17:39:00	0486
	10	11	X8.2	2017-09-10 15:35:00	2017-09-10 16:06:00	2017-09-10 16:31:00	2673

	rank	x_class	start_datetime	max_datetime	end_datetime	region
11	12	X7.1	2005-01-20 06:36:00	2005-01-20 07:01:00	2005-01-20 07:26:00	0720
12	13	X6.9	2011-08-09 07:48:00	2011-08-09 08:05:00	2011-08-09 08:08:00	1263
13	14	X6.5	2006-12-06 18:29:00	2006-12-06 18:47:00	2006-12-06 19:00:00	0930
14	15	X6.2	2005-09-09 19:13:00	2005-09-09 20:04:00	2005-09-09 20:36:00	0808
15	16	X6.2	2001-12-13 14:20:00	2001-12-13 14:30:00	2001-12-13 14:35:00	9733
16	17	X5.7	2000-07-14 10:03:00	2000-07-14 10:24:00	2000-07-14 10:43:00	9077
17	18	X5.6	2001-04-06 19:10:00	2001-04-06 19:21:00	2001-04-06 19:31:00	9415
18	19	X5.4	2012-03-07 00:02:00	2012-03-07 00:24:00	2012-03-07 00:40:00	1429
19	20	X5.4	2005-09-08 20:52:00	2005-09-08 21:06:00	2005-09-08 21:17:00	8080
20	21	X5.4	2003-10-23 08:19:00	2003-10-23 08:35:00	2003-10-23 08:49:00	0486
21	22	X5.3	2001-08-25 16:23:00	2001-08-25 16:45:00	2001-08-25 17:04:00	9591
22	23	X4.9	2014-02-25 00:39:00	2014-02-25 00:49:00	2014-02-25 01:03:00	1990
23	24	X4.9	1998-08-18 22:10:00	1998-08-18 22:19:00	1998-08-18 22:28:00	8307
24	25	X4.8	2002-07-23 00:18:00	2002-07-23 00:35:00	2002-07-23 00:47:00	0039
25	26	X4	2000-11-26 16:34:00	2000-11-26 16:48:00	2000-11-26 16:56:00	9236
26	27	X3.9	2003-11-03 09:43:00	2003-11-03 09:55:00	2003-11-03 10:19:00	0488
27	28	X3.9	1998-08-19 21:35:00	1998-08-19 21:45:00	1998-08-19 21:50:00	8307
28	29	X3.8	2005-01-17 06:59:00	2005-01-17 09:52:00	2005-01-17 10:07:00	0720
29	30	X3.7	1998-11-22 06:30:00	1998-11-22 06:42:00	1998-11-22 06:49:00	8384
30	31	X3.6	2005-09-09 09:42:00	2005-09-09 09:59:00	2005-09-09 10:08:00	8080
31	32	X3.6	2004-07-16 13:49:00	2004-07-16 13:55:00	2004-07-16 14:01:00	0649
32	33	X3.6	2003-05-28 00:17:00	2003-05-28 00:27:00	2003-05-28 00:39:00	0365
33	34	X3.4	2006-12-13 02:14:00	2006-12-13 02:40:00	2006-12-13 02:57:00	0930
34	35	X3.4	2001-12-28 20:02:00	2001-12-28 20:45:00	2001-12-28 21:32:00	9767
35	36	X3.3	2013-11-05 22:07:00	2013-11-05 22:12:00	2013-11-05 22:15:00	1890
36	37	X3.3	2002-07-20 21:04:00	2002-07-20 21:30:00	2002-07-20 21:54:00	0039
37	38	X3.3	1998-11-28 04:54:00	1998-11-28 05:52:00	1998-11-28 06:13:00	8395
38	39	X3.2	2013-05-14 00:00:00	2013-05-14 01:11:00	2013-05-14 01:20:00	1748
39	40	X3.1	2014-10-24 21:07:00	2014-10-24 21:41:00	2014-10-24 22:13:00	2192
40	41	X3.1	2002-08-24 00:49:00	2002-08-24 01:12:00	2002-08-24 01:31:00	0069
41	42	Х3	2002-07-15 19:59:00	2002-07-15 20:08:00	2002-07-15 20:14:00	0030
42	43	X2.8	2013-05-13 15:48:00	2013-05-13 16:05:00	2013-05-13 16:16:00	1748
43	44	X2.8	2001-12-11 07:58:00	2001-12-11 08:08:00	2001-12-11 08:14:00	9733
44	45	X2.8	1998-08-18 08:14:00	1998-08-18 08:24:00	1998-08-18 08:32:00	8307
45	46	X2.7	2015-05-05 22:05:00	2015-05-05 22:11:00	2015-05-05 22:15:00	2339
46	47	X2.7	2003-11-03 01:09:00	2003-11-03 01:30:00	2003-11-03 01:45:00	0488
47	48	X2.7	1998-05-06 07:58:00	1998-05-06 08:09:00	1998-05-06 08:20:00	8210
48	49	X2.6	2005-01-15 22:25:00	2005-01-15 23:02:00	2005-01-15 23:31:00	0720
49	50	X2.6	2001-09-24 09:32:00	2001-09-24 10:38:00	2001-09-24 11:09:00	9632

## Scraping the NASA data

3/4/2021

```
In [10]: r = requests.get('http://odaw.gsfc.nasa.gov/CME_list/radio/waves_type2.html')
root = BeautifulSoup(r.content, "html.parser")

In [11]: nasa_table = root.find('pre')
nasa_table

Out[11]: 

The content of the pre-
NOTE: List includes DH type II bursts observed by Wind spacecraft, but after STEREO launch on Oct 2006 the start and end times and frequencies of bursts are determined using both Wind and STEREO observations

The pre-
DH Type II Flare CME
```

| Start | End | Frequency | Loc | NOAA | Imp | Date | Time | CPA | Width | Spd | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) |

```
Project 1
1997/04/01 14:00 04/01 14:15 <a href="https://cdaw.qsfc.nasa.qov/CME list/daily movies/1997/04/01/c2rdif waves.html">8000</a> <a href="https://cdaw.qsfc.nasa.qov/CME list/daily movies/1997/04/01/c3rdif waves.html">4000</a> <a href="https://cdaw.qsfc.nasa.qov/CME list/daily movies/1997/04/01/c3rdif w
                                8.p073g.htp.html">312</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/1997_04/sephtx_19970401.png">PHTX</a>
1997/04/07 14:30 04/07 17:30 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/1997/04/07/c3rdif_waves.html">1000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/1997_04/07/c3rdif_waves.html">1000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1997_04/19970407.142744.pl23g/c2_rdif.html">04/07</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1997_04/19970407.pl23g/c2_rdif.html">04/07</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1997_04/1997
 4.pl23g.htp.html">878</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily plots/sephtx/1997 04/sephtx 19970407.png">PHTX</a>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/1997/05/12/c3rdif_waves.html">80</a> N21W08 80
 1997/05/12 05:15 05/14 16:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/1997/05/12/c2rdif_waves.html">12000</a>
38 Cl.3 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsmovies/1997_05/jsm
 1997/05/21 20:20 05/21 22:00 <a href="https://cdaw.gsfc.nasa.gov/CME list/daily movies/1997/05/21/c2rdif waves.html">5000</a>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <a href="https://cdaw.gsfc.nasa.gov/CME list/daily movies/1997/05/21/c3rdif waves.html">500</a>
 40 M1.3 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1997_05/jsmovies/1997_05/j970521.210053.p267g/c2_rdif.html">05/21</a> 21:00 263 165 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1997_05/jsmovies/1997_05/httpng/19970521.21005
0.pll6g.htp.html">712</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/1997_09/sephtx_19970923.png">PHTX</a>
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16 B9.4 ca href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1997_12/htmg/1997_12/htmg/1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12/sephtx_1997_12
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10 M6.8 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsmovies/1998_04/jsm
 1998/05/02 14:25 05/02 14:50 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/1998/05/02/c2rdif_waves.html">5000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/1998/05/02/c3rdif_waves.html">3000</a> 815W15 82
 10 X1.1 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_05/jsmovies/1998_05/19980502.140612.p331g/c2_rdif.html">05/02</a> 14:06 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_05/httpng/19980502.14061
2.p331g.htp.html">938</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/1998_05/sephtx_19980502_png">PHTX</a>
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p294g.htp.html">1099</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/1998_05/sephtx_19980506.png">PHTX</a>
1998/05/09 03:35 05/09 10:00 <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/1998/05/09/c2rdif_waves.html">9000</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/1998/05/09/c3rdif_waves.html">9000</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/1998/05/09/c3rdif_w
p275g.htp.html">2331</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/1998_05/sephtx_19980509.png">PHTX</a>
 1998/05/11 21:40 05/11 22:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/1998/05/11/c2rdif_waves.html">10000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/1998/05/11/c3rdif_waves.html">10000</a> N32W90 82
 14 B6.6 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_05/jsmovies/1998_05/19980511.215522.p284g/c2_rdif.html">05/11</a> 21:55 208 &gt;301 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_05/htpng/19980511.215
522.p284g.htp.html">830</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_plots/sephtx/1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998_05/sephtx_1998
                                 6.p311g.htp.html">801</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/1998_05/sephtx_1998.05/27_png">PHTX</a> = 1998/05/27 13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_05/27_13:30_0
 2.p306g.htp.html">878</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/1998_05/sephtx_19980527.png">PHTX</a>
 1998/06/11 10:15 06/11 10:20 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/1998/06/11/c2rdif_waves.html">8000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/1998/06/11/c3rdif_waves.html">4000</a> N16E86 82
43 M1.4 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/jsmovies/1998_06/jsmovies/1998_06/jsmovies/1998_06/jsmovies/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/https://cdaw.gsfc
 1998/06/16 18:20 06/17 21:00 <a href="https://cdaw.gsfc.nasa.gov/CME list/daily movies/1998/06/16/c2rdif waves.html">50</a> 822W90 82
32 M1.0 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/jsmovies/1998_06/19980616.182705.p278g/c2_rdif.html">06/16</a> 18:27 341 281 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_06/htpng/19980616.182705.
p278g.htp.html">1484</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06/sephtx/1998_06
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<a href="https://cdaw.gsfc.nasa.gov/CME list/daily movies/1998/11/05/c3rdif waves.html">50</a> N22W18 83
 75 M8.4 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_11/jsmovies/1998_11/j9981105.204402.p300s/c2_rdif.html">11/05</a> 20:44 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1998_11/httpg/19981105.204402.
805.p188s.htp.html">405</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/1998_11/sephtx_19981106.png">PHTX</a>
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file:///Users/tunderockson/Downloads/Project 1 (1).html

5.p214s.htp.html">559</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily plots/sephtx/1998 11/sephtx 19981108.png">PHTX</a>

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 p036s.htp.html">1749</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/1998_12/sephtx_19981218.png">PHTX</a>
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05.p038s.htp.html">1569</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_plots/sephtx/1999_06/sephtx_19990611.png">PHTX</a>
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9046s.htp.html">1006</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/UniversAll/1999_06/jsmovies/1999/0623.073124.]
9046s.htp.html">1006</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/UniversAll/1999_06/jsmovies/1999/0623.073124.]
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6.p182g.htp.html">512</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily plots/sephtx/1999_09/sephtx_19990903.png">PHTX</a> 1999/09/10 07:30 09/10 07:35 <a href="https://cdaw.gsfc.nasa.gov/CME list/daily movies/1999/09/10/c2rdif waves.html">5000</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily movies/1999/09/10/c3rdif waves.html">2000</a>
                                   <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1999_09/jsmovies/1999_09/19990910.075405.p001g/c2_rdif.html">09/10</a> 07:54 18 125 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/1999_09/httpng/19990910.075405.</pre>
  p001g.htp.html">1467</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/1999_09/sephtx_19990910.png">PHTX</a>
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p195s.htp.html">1177</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2000_01/sephtx/2000/02/05 19:34 02/05 19:38 <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2000/02/05/c2rdif_waves.html">5800</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2000/02/05/c3rdif_waves.html">5800</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2000/02/05/c3rdif_waves.html">2000/02/05/c3rdif_waves.html">5800</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2000/02/05/c3rdif_waves.html">5800</a> <a href="https://cdaw.gsfc.nasa.gov/CME 
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58 MI.3 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2000 02/impovies/2000 02/08/c37dif_waves.html">20</a> N25E26 88
 p050s.htp.html">1079</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2000_02/sephtx_20000208.png">PHTX</a>
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D208.htp.html*>1107c/x> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2000_02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/17/c2rdif_waves.html">1000/02/
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82 M6.5 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2000_03/20000302.135405.p221s/c2_rdif.html">03/02</a> 13:54 235 76 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2000_03/httpng/20000302.135405.p221s.htp.html">8355</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plot/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/2000_03/sephtx/20
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5.pl14s.htp.html">644</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2000_03/sephtx/20000307.png">PHTX</a> 2000/03/27 06:56 03/27 06:58 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2000/03/27/c3rdif_waves.html">10000</a> 800E90 89 32 C2.3 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2000_03/spov/cs2000/03/27/c3rdif_waves.html">03/2000327.073120.pl15s/c2_rdif.html">03/27</a> 07:31 129 90 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2000_03/htpng/20000327.073120.pl15s/c2_rdif.html">03/27</a> 07:31 29 90 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2000_03/htpng/20000327.073120.pl1
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48 M3.1 <a href="https://cdaw.gsfc.nasa.gov/CME\_list/UNIVERSAL/2000\_04/jsmovies/2000\_04/20000410.003005.p225s/c2\_rdif.html">04/10</a> 00:30 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME\_list/UNIVERSAL/2000\_04/httpng/20000410.00300

5.p225s.htp.html">409</a> <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_plots/sephtx/2000\_04/sephtx\_20000409.png">PHTX</a>

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 405.p293s.htp.html"https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2000_06/sephtx/20000623.ngm">PHTX</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2000/06/25 ps-10 06/25 08:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25 09:10 06/25
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27 C4.4 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2000_11/jsmovies/2000_11/22/c3rdif_waves.html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stpn/20001112.145005.pz/14/c2_rdif_html">1/stp
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   39 C7.9 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2000_11/jsmovies/2000_11/20001123.213008.p144g/c2_rdif.html">11/23</a> 21:30 124 148 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2000_11/https/20001123.213008.
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  p313q.htp.html">1005</a> <a href="https://cdaw.qsfc.nasa.qov/CME list/daily plots/sephtx/2000 11/sephtx 20001124.pnq">PHTTX/a>
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   40 M8.2 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2000_11/jsmovies/2000_11/20001125.013158.p082g/c2_rdif.html">11/25</a> 01:31 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2000_11/htpng/20001125.013158.
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21,53-69, 11,011 | 7386-745 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 71,015 | 
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                                        <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_01/jsmovies/2001_01/20010128.155405.p254g/c2_rdif.html">01/28</a> 15:54 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_01/jsmovies/2001_01/https//cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_01/https//cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_01/https//cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_01/jsmovies/2001_01/https//cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_01/jsmovies/2001_01/https//cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies/2001_01/jsmovies
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   2001/03/29 10:12 03/30 06:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/03/29/c2rdif_waves.html">4000</a>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/03/29/c3rdif_waves.html">60</a> N20W19 93
  93 X1.7 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_03/jsmovies/2001_03/20010329.102605.p071g/c2_rdif.html">03/29</a> 10:26 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_03/htpng/20010329.102605.p071g/c2_rdif.html">04/25/25 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2001_03/sephtx/20010329.102605.p071g/c2_rdif_waves.html">05/2001/04/25/21130 04/20 12:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/04/02/c3rdif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html">10001/03/2027dif_waves.html</a>
   93 X1.1 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/jsmovies/2001_04/20010402.112605.p278g/c2_rdif.html">04/02</a> 11:26 270 80 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/httpng/20010402.11260
 5.p278g.htp.html">992</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2001_04/sephtx_20010402.png">PHTX</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/04/02/c3rdif_waves.html">2600.f04/02/c3rdif_waves.html">2600.f04/02/c3rdif_waves.html">2600.f04/02/c3rdif_waves.html">2600.f04/02/c3rdif_waves.html">2600.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html">2700.f04/02/c3rdif_waves.html
  p293g.htp.html">2505</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2001_04/sephtx_20010402.png">PHTX</a>
 2001/04/03 03:40 04/03 07:25 <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2001/04/03/c3rdif_waves.html">400</a> <
  p120g.htp.html">1613</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2001_04/sephtx_20010403.png">PHTX</a>
    2001/04/04 09:50 04/04 10:10 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/04/04/02rdif_waves.html">3000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/04/04/03rdif_waves.html">3000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/04/04/03rdif_w
 15 M1.6 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/jsmovies/2001_04/20010404.095005.p090g/c2_rdif.html">04/04</a> 09:50 86 89 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/httpng/20010404.095005.p090g.http.html">1065</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2001_04/sephtx_20010404.ppg">PHTX</a>
   2001/04/05 09:14 04/05 09:34 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/04/05/c2rdif_waves.html">14000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies
   93 M8.4 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/jsmovies/2001_04/20010405.090606.p281g/c2_rdif.html">04/05</a> 09:06 283 205 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/htpng/20010405.090606.
 p147g.htp.html">1270</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2001_04/sephtx_20010406.png">PHTX</a> Double type II, CME-CME interaction?
 2001/04/09 15:53 04/10 01:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/04/09/c3rdif_waves.html">100</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/04/09/c3rdif_waves.html">100</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001_04/09/c3rdif_waves.html">100</a> <
  p2l1q.htp.html">1192</a> <a href="https://cdaw.qsfc.nasa.qov/CME list/daily plots/sephtx/2001 04/sephtx 20010409.png">PETRIX/a>
   2001/04/10 05:24 04/10 24:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/04/10/c2rdif_waves.html">14000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/04/10/c3rdif_waves.html">100</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/04/10/c3rdif_waves.html">100</a>
   15 X2.3 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/jsmovies/2001_04/20010410.053000.p166g/c2_rdif.html">04/10</a> 05:30 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/htpng/20010410.053000.
 15 M2.3 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2001/04/10/21/133148.25/2072 | 15 M2.3 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2001/04/10/21/133148.25/2072 | 15 M2.3 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/04/11/22-dif_waves.html">15 M2.3 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/11/22-dif_waves.html">15 M2.3 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/11/23-dif_waves.html">15 M2.3 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/11/23-dif_waves.html">15 M2.3 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/11/23148.p224/62_rdif_waves.html">15 M2.3 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/11/23148.p224/62_rdif_waves.h
  p224g.htp.html">1103</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2001_04/sephtx_20010411.png">PHTX</a>
 2001/04/12 10:40 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001_04/12/02rdif_waves.html">14000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/04/12/c3rdif_waves.html">7000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001_04/12/c3rdif_waves.html">300</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001_04/12/c3rdif_waves.html">15 X2.0 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/jsmovies/2001_04/2010412.103129.p221g/c2_rdif.html">10:31 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL
  p221g.htp.html">1184</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily plots/sephtx/2001 04/sephtx 20010412.png">PHTX</a>
   2001/04/15 14:05 04/16 13:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/04/15/c2rdif_waves.html">1400</a>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     \label{limit} $$ \an in the febber of the 
 2001/04/18 02:55 04/18 14:00 <a href="https://cdaw.gsfc.nasa.gov/CME list/daily movies/2001/04/18/c2rdif waves.html">1000</a>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <a href="https://cdaw.gsfc.nasa.gov/CME list/daily movies/2001/04/18/c3rdif waves.html">100</a>
   -- C2.2 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/jsmovies/2001_04/20010418.023005.p263g/c2_rdif.html">04/18</a> 02:30 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/httpng/20010418.023005.p263g/c2_rdif.html">04/18</a> 02:30 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/httpng/20010418.023005.pdf]
 p263g.htp.html">2465</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2001_04/sephtx_20010418.png">PHTX</a> 2001/04/26 | 12:40 04/28 05:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/04/26/c2rdif_waves.html">200</a> N20W05 94 33 ML.S <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/jsmovies/2001_04/26/c2rdif_waves.html">04/26</a> 12:30 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/jsmovies/2001_04/2010426.123005.pdf">04/2010426.123005.pdf</a> 133 ML.S <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/jsmovies/2001_04/2010426.123005.pdf">04/2010426.123005.pdf</a> 133 ML.S <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_04/jsmovies/2001_04/2010426.123005.pdf">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/20104/26/c3rdif_waves.html">05/201
  p037g.htp.html">1006</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2001_04/sephtx_20010426.png">PHTX</a>
  2001/05/07 12:00 05/07 13:50 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/05/07/c2rdif_waves.html">2000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/05/07/c3rdif_waves.html">280</a> NW90b --- <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001_05/jsmovies/2001_05/20010507.120606.p267g/c2_rdif.html">05/07</a> 12:06 286 205 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_05/htpng/20010507.120606.
  p267g.htp.html">1223</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily plots/sephtx/2001 05/sephtx 20010507.png">PHTX</a>
   2001/05/12 23:52 05/13 00:12 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/05/12/c2rdif_waves.html">3000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/05/12/c3rdif_waves.html">3000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/05/12/c3rdif_waves.html">3000</a>
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                                             <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_05/jsmovies/2001_05/20010530.000607.p082g/c2_rdif.html">05/30</a> 00:06 70 216 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_05/htpng/20010530.000607.</pre>
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2001/09/17 08:35 09/17 08:47 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/09/17/c2rdif_waves.html">14000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/09/17/c3rdif_waves.html">5400</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmovies/2001_09/jsmov
p175g.htp.html">1009</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily plots/sephtx/2001 09/sephtx 20010917.png">PHTX</a>
 2001/09/20 18:43 09/20 18:57 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/09/20/c2rdif_waves.html">10000</a> N09W11 96
3.p274g.htp.html">446</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2001_09/sephtx_20010920.png">PHTX</a> 2001/09/24 10:45 09/25 20:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/09/24/c2rdif_waves.html">7000</a>
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 32 X2.6 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_09/jsmovies/2001_09/20010924.103059.p142g/c2_rdif.html">09/24</a> 10:30 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_09/httpng/20010924.103059.
 p142g.htp.html">2402</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2001_09/sephtx_20010924.png">PHTX</a>
 2001/09/27 08:15 09/28 07:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/09/27/c2rdif_waves.html">4000</a>
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    EP C9.5 <a href="https://cdaw.gsfc.nasa.gov/CME list/UNIVERSAL/2001 09/jsmovies/2001 09/20010927.080605.p200g/c2 rdif.html">09/27</a> 08:06 224 138 <a href="https://cdaw.gsfc.nasa.gov/CME list/UNIVERSAL/2001 09/jsmovies/2001 09/httpng/20010927.080605
 5.p200g.htp.html">669</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2001_09/sephtx_20010927.png">PHTX</a>
 2001/10/01 07:00 10/01 18:30 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/10/01/c2rdif_waves.html">1000</a>
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28 M9.1 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/jsmovies/2001_10/20011001.053005.p225g/c2_rdif.html">10/01</a> 05:30 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/httpng/20011001.053005.p225g.http.html">10/01</a> 05:30 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/html">10/01</a> 05:30 Ha
 2001/10/05 11:35 10/05 12:55 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/10/05/c2rdif_waves.html">1400</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/10/05/c3rdif_waves.html">500</a>
                                   <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/jsmovies/2001_10/20011005.103027.p222g/c2_rdif.htm1">10/05</a> 10:30 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/httpng/20011005.103027.</pre>
p222g.htp.html">1537</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2001_10/sephtx_20011005.png">PHTX</a>
2001/10/09 11:15 10/09 16:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/10/09/c3rdif_waves.html">200</a> 6 82888 96 3 M1.4 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/jsmovies/2001_10/20011009.113005.p184g/c2_rdif.html">10/09</a> 11:30 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/https://daw.gsfc.nasa.gov/CME_
 5.pl84g.htp.html">973</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2001_10/sephtx_20011009.png">PHTX</a>
2001/10/09 13:10 10/09 23:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/10/09/c2rdif_waves.html">5000</a>
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                                                                                                                                        <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2001_10/sephtx_20011009.png">PHTX</a> Possible HALO
N16W18 96
7.p284g.htp.html">558</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2001_10/sephtx_20011019.png">PHTX</a>
 2001/10/19 16:45 10/21 16:40 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/10/19/c2rdif_waves.html">14000</a>
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61 X1.6 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/jsmovies/2001_10/20011019.165005.p273g/c2_rdif.html">10/19</a> 16:50 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/httpng/20011019.165005.p273g.htp.html">901</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/sphtx_20011019.png">PHTX</a>
 2001/10/22 15:15 10/22 17:40 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/10/22/c2rdif_waves.html">8000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/10/22/c3rdif_waves.html">1000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/10/22/c3rdif_waves.html">2001/10/22/c3rdif_waves.html">8000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/10/22/c3rdif_waves.html">1000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/da
 72 M6.7 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/jsmovies/2001_10/20011022.150605.p122g/c2_rdif.html">10/22</a> 15:06 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/jsmovies/2001_10/20011022.150605.
p122g.htp.html">1336</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2001_10/sephtx_20011022.png">PHTX</a>
2001/10/25 15:30 10/27 23:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/10/25/c2rdif_waves.html">14000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/10/25/c3rdif_waves.html">30</a> $16W21 96
72 X1.3 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/jsmovies/2001_10/25/c2rdif_html">10/25</a> 15:26 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_10/httpng/20011025.152605.
p175g.htp.html">1092</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2001_10/sephtx_20011025.png">PHTX</a>
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p239g.htp.html">1810</a> <a href="https://cdaw.gsfc.nasa.qov/CME list/daily plots/sephtx/2001 11/sephtx 20011104.png">PHTX</a>
 2001/11/17 05:35 11/17 06:40 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/11/17/c2rdif_waves.html">1700</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/11/17/c3rdif_waves.html">1700</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2001/11/17/c3rdif_w
04 M2.8 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_11/jsmovies/2001_11/20011117.053006.p058s/c2_rdif.html">11/17</a> 05:30 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_11/https/20011117.053006.p058s/c2_rdif.html">11/17</a> 05:30 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_11/https/2001117.053006.p058s/c2_rdif.html">11/17</a> 05:30 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2001_11/html">11/17</a> 05:30 Halo 360 <a href="https://cdaw.gsfc.nasa.go
p058s.htp.html">1379</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2001_11/sephtx_20011117.png">PHTX</a> uncertain
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66 M1.6 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_03/jsmovies/2002_03/20020322.110605.p259n/c2_rdif.html">03/22</a> 11:06 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_03/htpng/20020322.110605.
p259n.htp.html">1750</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2002_03/sephtx_20020322.png">PHTX</a>
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 66 M1.6 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_03/jsmovies/2002_03/20020322.123006.p249g/c2_rdif.html">03/22</a> 12:30 243 120 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_03/httpng/20020322.12300
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 2002/04/15 03:35 04/15 04:15 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2002/04/15/c2rdif_waves.html">1000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2002/04/15/c3rdif_waves.html">1500</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2002/04/15/c3rdif_w
06 M1.2 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_04/psmovies/2002_04/20020415.035005.p198s/c2_rdif.html">04/15</a> 03:50 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_04/httpng/20020415.03500
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2002/04/30 22:30 04/30 23:20 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2002/04/30/c2rdif_waves.html">500</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2002/04/30/c3rdif_waves.html">500</a>
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119 99 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_05/httpng/20020502.23181</pre>
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48 C9.7 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsmovies/2002_05/jsm
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 67 C3.7 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_05/jsmovies/2002_05/20020527.13271ā.p035s/c2_rdif.html">05/27</a> 13:27 49 &gtil61 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_05/httpng/20020527.13271
18.p035s.htp.html">1106</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2002_05/sephtx/2002_57.png">PHTX</a> 2002/07/07 11:35 07/07 20:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2002/07/07/63rdif_waves.html">2004/07/07/62rdif_waves.html">2005/07/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html">2005/07/07/62rdif_waves.html
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 30 M1.8 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_07/jsmovies/2002_07/20020715.213005.p045s/c2_rdif.html">07/15</a> 21:30 14 &gt;188 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_07/httpng/20020715.213005.p045s/c2_rdif.html">07/15</a> 30 14 &gt;188 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_07/ht
<a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_07/jsmovies/2002_07/htpng/20020717.073147.p032g/c2_rdif.html">07/17</a> 07:31 36 177 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_07/htpng/20020717.073147.p032g/c2_rdif.html">07/17</a> 07:31 36 177 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_07/html">07/15</a> 07:31 36 175 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_07/html">07/15</a> 07:31 36 175 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_07/html">07/15</a> 07:31 36 175 <a href="http
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39 M8.7 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_07/jsmovies/2002_07/20020726.220610.p172s/c2_rdif.html">07/26</a> 22:06 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_07/htpng/20020726.220610.p172s.htp.html">0.p172s.htp.html">818</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2002_07/sephtx_20020726.png">PHTX</a> 2002/07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 12:10 07/29 1
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733.p301g.htp.html">562</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2002_07/sephtx_2002_079.png">PHTX</a> 2002/08/03 19:20 08/03 20:30 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2002/08/03/c2rdif_waves.html">20002/08/03/c2rdif_waves.html">20002/08/03/c2rdif_waves.html">20002/08/03/c2rdif_waves.html">20002/08/03/c2rdif_waves.html">20002/08/03/c2rdif_waves.html">20002/08/03/c2rdif_waves.html">20002/08/03/c2rdif_waves.html">20002/08/03/c2rdif_waves.html">20002/08/03/c2rdif_waves.html">20002/08/03/c2rdif_waves.html">20002/08/03/c2rdif_waves.html">20002/08/03/c2rdif_waves.html">20002/08/03/c2rdif_waves.html">20002/08/03/c2rdif_waves.html">20002/08/03/c2rdif_waves.html">20002/08/03/c2rdif_waves.html">20002/08/03/c2rdif_waves.html">20002/08/03/c2rdif_waves.html">20002/08/03/c2rdif_waves.html">20002/08/03/c2rdif_waves.html">20002/08/03/c2rdif_waves.html</a>
 39 X1.0 <a href="https://cdaw.gsfc.nasa.gov/CME list/UNIVERSAL/2002 08/jsmovies/2002 08/20020803.193149.p272s/c2 rdif.html">08/03</a> 19:31 259 138 <a href="https://cdaw.gsfc.nasa.gov/CME list/UNIVERSAL/2002 08/httpng/20020803.193149.
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 2002/12/19 21:45 12/19 22:30 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2002/12/19/c2rdif_waves.html">14000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2002/12/19/c3rdif_waves.html">1500</a> N15W09 102
 29 M2.7 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_12/jsmovies/2002_12/20021219.220605.p300g/c2_rdif.html">12/19</a> 22:06 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_12/htpng/20021219.220605.
p300g.htp.html">1092/a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2002_12/sephtx/202_12/sephtx/a> 2002/12/22 04:20 12/22 04:20 12/22 04:50 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2002/12/22/c2rdif_waves.html">5500</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2002/12/22/c2rdif_waves.html">3500</a> N23W42 102
 23 M1.1 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_12/jsmovies/2002_12/20021222.033011.p294g/c2_rdif.html">12/22</a> 03:30 328 272 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2002_12/htpng/20021222.033011.
p294g.htp.html">1071</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2002_12/sephtx_20021222.png">PHTX</a>
2003/01/20 19:10 01/20 20:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2003/01/20/c2rdif_waves.html">6000</a> N34W26 FI
LA C1.7 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/jsmovies/2003_01/20030120.18300_p330g/c2 rdif.html">01/20</a> 18:30 315 105 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/https://daw.gsfc.nasa.gov/CME_lis
5.p330g.htp.html">733</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2003_01/sephtx_20030120.png">PHTX</a>
 2003/01/27 22:20 01/27 22:26 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2003/01/27/c3rdif_waves.html">1000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2003/01/27/c3rdif_waves.html">8000</a>
LA C2.4 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/jsmovies/2003_01/20030127.222327.p191g/c2_rdif.html">01/27</a> 22:23 205 267 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_01/httpng/20030127.222327.p191g.http.html">1053</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/sephtx/2003_01/seph
 2003/03/18 12:25 03/18 13:45 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2003/03/18/c2rdif_waves.html">500</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2003/03/18/c3rdif_waves.html">500</a> <
 14 X1.5 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_03/jsmovies/2003_03/20030318.123005.p266g/c2_rdif.html">03/18</a> 12:30 263 209 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_03/htpng/20030318.123005.
p181g.htp.html">1042</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2003_03/sephtx_20030318.png">PHTX</a>
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                                      <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_04/jsmovies/2003_04/jsmovies/2003_04/jsmovies/2003_04/psmovies/2003_04/htmg/20030422.07363</pre>
87 171 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_04/htmg/20030422.07363</pre>
7.p083g.htp.html">918</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_plots/sephtx/2003_04/sephtx_2003/05/27_23:12_05/27_23:45 <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2003/05/27/c2rdif waves.html">1000</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2003/05/27/c3rdif waves.html">2003/05/27/c3rdif waves.html">2003/05/27/c3rdif waves.html">1000</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2003/05/27/c3rdif waves.html">2003/05/27/c3rdif waves.html</a>
                                  <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_05/jsmovies/2003_05/20030527.235005.p067g/c2_rdif.html">05/27</a> 23:50 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_05/jsmovies/2003_05/htpng/20030527.235005.p067g/c2_rdif.html">05/27</a> 23:50 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_05/jsmovies/2003_05/htpng/20030527.235005.p067g/c2_rdif.html">05/27</a> 23:50 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_05/htpng/20030527.235005.p067g/c2_rdif.html">05/27</a> 23:50 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_05/html">05/27</a> 23:50 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_lis
5.p067g.htp.html">964</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2003_05/sephtx_2003_057_png">PHTX</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2003/05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html">2007.05/28/c3rdif_waves.html
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 2003/05/31 03:00 05/31 08:00 <a href="https://cdaw.gsfc.nasa.gov/CME list/daily movies/2003/05/31/c2rdif waves.html">150</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily movies/2003/05/31/c3rdif waves.html">150</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily movies/2003/05/31/c3rdif waves.html">150</a>
65 M9.3 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_05/jsmovies/2003_05/20030531.023019.p256g/c2_rdif.html">05/31</a> 02:30 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_05/htpng/20030531.023019.
p256g.htp.html">1835</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2003_05/sephtx_20030531.png">PHTX</a> 2003/06/05 00:00 06/05 00:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2003/06/05/c2rdif_waves.html">?????</a> W90b --- <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2003_06/20030605_20065_27dif_waves.html">?????</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_06/30030605_200605_27dif_waves.html">?????</a> W90b --- <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_06/30030605_200605_27dif_waves.html">?????</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_06/30030605_200605_27dif_waves.html">??????</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_06/300505_27dif_waves.html">??????</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_06/300505_27dif_waves.html">?????</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_06/30050
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86 M6.8 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_06/jsmovies/2003_06/20030617.231814.pl17g/c2_rdif.html">06/17</a> 23:18 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2003_06/htpng/20030617.231814.pl17g/c2_rdif.html">10113</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2003_06/sephtx_2003_06/pephtx_2003_06/htpng/2003_06/sephtx_2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06/htpng/2003_06
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p167g.htp.html">1368</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2004_04/sephtx_20040406.png">PHTX</a> 2004/04/08 10:25 04/08 12:50 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2004/04/08/c3rdif_waves.html">500</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2004/04/08/c3rdif_waves.html">500</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2004_04/08/c3rdif_waves.html">500</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2004_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2004_04/https://com/com/com/caphic/movies/2004_04/d20044088.103019.ltml">>000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2004_04/https://com/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/2004_04/caphic/movies/20
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 88 C9.6 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2004_04/jsmovies/2004_04/20040411.043006.p237g/c2_rdif.html">04/11</a> 04:30 203 314 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2004_04/htpng/20040411.043006.
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file:///Users/tunderockson/Downloads/Project 1 (1).html

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p082s.htp.html">1035</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2004_12/sephtx_20041230.png">PHTX</a> 2005/01/01 00:45 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2005/01/01/c3rdif_waves.html">450</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2005/01/01/c3rdif_waves.html">450</a> N06E34 107 15 X1.7 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_01/jsmovies/2005_01/01/0505010.005405.p090s/c2_rdif.html">05405_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/jsmovies/2005_01/
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p359s.htp.html">2049</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2005_01/sephtx_20050115.png">PHTX</a> 2005/01/15 23:00 01/17 00:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2005/01/15/c3rdif_waves.html">3000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2005/01/15/c3rdif_waves.html">3000</a> N15W05 107 20 X2.6 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01/ispunies/2005_01
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 58 C8.0 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_05/jsmovies/2005_05/20050502.222627_p137g/c2_rdif.html">05/02</a> 22:26 105 148 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_05/httpng/20050502.22262
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<a href="https://cdaw.gsfc.nasa.gov/cME_list/UNIVERSAL/2005 07/20050727.075405.p054s/c2 rdif.html">07/27</a> 07:54 65 51 <a href="https://cdaw.gsfc.nasa.gov/cME_list/UNIVERSAL/2005 07/20050727.075405.p054s/c2 rdif.
 5.p054s.htp.html">533</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2005_07/sephtx_20050727.png">PHTX</a>
2005/07/30 07:40 07/30 20:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2005/07/30/c2rdif_waves.html">9000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2005/07/30/c3rdif_waves.html">80</a> N12E60 107 92 X1.3 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_07/jsmovies/2005_07/20050730.065028.p050s/c2_rdif.html">9000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVE
                                                                                                                                                                                                                                                                                                                                        <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2005/07/30/c3rdif_waves.html">80</a> N12E60 107
                                                                 <a href="https://cdaw.gsfc.nasa.gov/CME list/daily plots/sephtx/2005 07/sephtx 20050730.png">PHTX</a>
 2005/08/01 14:15 08/01 14:50 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2005/08/01/c2rdif_waves.html">4500</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2005/08/01/c3rdif_waves.html">4500</a> N13E32 107
1.p068s.htp.html">984</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_plots/sephtx/2005_08/sephtx/20050801.png">PHTX</a> 2005/08/22 01:30 08/22 03:35 <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2005/08/22/c3rdif_waves.html">550</a> S11W54 107
 98 M2.6 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_08/jsmovies/2005_08/20050822.013148.p220s/c2_rdif.html">08/22</a> 01:31 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_08/httpng/20050822.013148.
p227s.htp.html">2378</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2005_08/sephtx_20050822.png">PHTX</a>
2005/08/29 11:10 08/29 11:14 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2005/08/29/c2rdif_waves.html">10000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2005/08/29/c3rdif_waves.html">6000</a>
03 C2.0 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_08/jsmovies/2005_08/20050831.113005.p287s/c2_rdif.html">08/31</a> 11:30 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_08/jsmovies/2005_08/httpng/20050831.11300
 5.p287s.htp.html">825</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2005_08/sephtx_20050831.png">PHTX</a>
2005/08/31 22:10 08/31 23:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html">18005/08/31/02rdif_waves.html</a>
p181s.htp.html">1808</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2005_08/sephtx_20050831.png">PHTX</a>
 2005/09/03 03:20 09/03 05:15 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2005/09/03/c2rdif_waves.html">2000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2005/09/03/c3rdif_waves.html">500</a>
-- --- <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_09/jsmovies/2005_09/20050903.031205.p138s/c2_rdif.html">09/03</a> 03:12 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_09/httpng/20050903.031205.p138s.http.html">1672</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/sephtx/2005_09/seph
 2005/09/05 10:40 09/06 00:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2005/09/05/c2rdif_waves.html">1500</a>
                                                                                                                                                                                                                                                                                                                                          <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2005/09/05/c3rdif_waves.html">60</a> S07E81 ---
   - C2.7 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_09/jsmovies/2005_09/20050905.094805.p107s/c2_rdif.html">09/05</a> 09:48 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_09/htpng/20050905.094805.
2005/09/09 19:45 09/09 22:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2005/09/09/c2rdif_waves.html">10000</a>
                                                                                                                                                                                                                                                                                                                                          <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2005/09/09/c3rdif_waves.html">50</a> S12E67 108
08 X6.2 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_09/jsmovies/2005_09/20050909.194805.pl15s/c2_rdif.html">09/09</a> 19:48 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_09/htpng/20050909.194805.
pl15s.htp.html">2257</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily plots/sephtx/2005 09/sephtx 20050909.png">PHTX</a>
 2005/09/10 21:45 09/11 01:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2005/09/10/c2rdif_waves.html">2005/09/10/c2rdif_waves.html">1005/09/10 21:45 09/11 01:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html">2005/09/10/c3rdif_waves.html</a>
 08 X2.1 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_09/jsmovies/2005_09/20050910.215207.p120s/c2_rdif.html">09/10</a> 21:52 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_09/htpng/20050910.215207.
p120s.htp.html">1893</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2005_09/sephtx_20050910.png">PHTX</a> 2005/09/11 13:10 09/11 15:15 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2005/09/11/c3rdif_waves.html">350</a> S16E39 108
 08 M3.0 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_09/jsmovies/2005_09/20050911.130053.p125s/c2_rdif.html">09/11</a> 13:00 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_09/htpng/20050911.130053.
p125s.htp.html">1922</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2005_09/sephtx_20050911.png">PHTX</a>
2005/09/13 20:20 09/15 06:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2005/09/13/c2rdif_waves.html">1100</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2005/09/13/c3rdif_waves.html">35</a> S09E10 108 08 X1.5 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_09/jsmovies/2005_09/20050913.200005.p149s/c2 rdif.html">909/13</a> 20:00 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_09/jsmovies/2005_09/13/c3rdif_waves.html">35</a> S09E10 108 08 X1.5 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_09/jsmovies/2005_09/13/c3rdif_waves.html">100</a> > 20:00 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmovies/2005_09/jsmov
p149s.htp.html">1866</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2005_09/sephtx_20050913.png">PHTXX</a>
 2006/04/30 16:20 05/02 01:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2006/04/30/c2rdif_waves.html">1000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2006/04/30/c3rdif_waves.html">200</a> S09E08 108
76 Cl.8 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_04/jsmovies/2006_04/20060430.095404.p047s/c2_rdif.html">04/30</a> 09:54 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_04/htpng/20060430.095404.p047s.htp.html">544</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2006_04/sephtx/20060430.png">PHTX</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2006/07/06/c3rdif_waves.html">300</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_mov
 98 M2.5 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/jsmovies/2006_07/20060706.085404.p205g/c2_rdif.html">07/06</a> 08:54 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_0
 4.p205g.htp.html">911</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2006_07/sephtx_20060706.png">PHTX</a>
4.p161g.htp.html">888</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2006_08/sephtx_20060816.png">PHTX</a>
6.pl63g.htp.html">786</a> da href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2006_08/sephtx_20060826.png">PHTX</a> WAVES Data Gap. Lower f may be 500 kHz.
 2006/11/05 17:35 11/05 19:20 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2006/11/05/c2rdif_waves.html">14000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2006/11/05/c3rdif_waves.html">400</a>
                         <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_11/jsmovies/2006_11/20061105.175404.p078s/c2_rdif.htm1">11/05</a> 17:54 39 196 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2006_11/htpng/20061105.175404.</pre>
p078s.htp.html">1398</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2006_11/sephtx_2006/1106_ng">PHTX</a> 2006/11/06 10:35 11/06 11:05 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2006/11/06/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html">106/c3rdif_waves.html</a>
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4.p078s.htp.html">829</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2006_11/sephtx_20061106.png">PHTX</a>
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p071s.htp.html">1994</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2006_l1/sephtx_20061106.png">PHTX</a>
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2006/12/06 02:00 12/06 03:30 100 200 S07E69 10930 M1.1 --/- --- --- <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2006_12/sephtx_20061206_png">PHTX</a> LASCO_DATA_GAP 2006/12/06 08:30 12/06 09:45 400 600 S04E63 10930 M6.0 --/- ---- --- <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2006_12/sephtx_20061206_png">PHTX</a> LASCO_DATA_GAP 4 https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2006_12/sephtx_20061206_png">PHTX</a> LASCO_DATA_GAP 5 https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2006_png">PHTX</a> LASCO_DATA_GAP 5 https://cdaw
 2006/12/06 19:00 12/08 24:00 <a href="https://cdaw.gsfc.nasa.gov/CME list/daily movies/2006/12/06/c2rdif waves.html">16000</a>
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80 C8.3 <a href="https://cdaw.gsfc.nasa.gov/CME\_list/UNIVERSAL/2007\_12/jsmovies/2007\_12/20071231.013140.p099g/c2\_rdif.html">12/31</a> 01:31 92 164 <a href="https://cdaw.gsfc.nasa.gov/CME\_list/UNIVERSAL/2007\_12/jsmovies/2007\_12/https://cdaw.gsfc.nasa.gov/CME\_list/UNIVERSAL/2007\_12/https://cdaw.gsfc.nasa.gov/CME\_list/U

40 C6.3 <a href="https://cdaw.gsfc.nasa.gov/CME\_list/UNIVERSAL/2007\_01/jsmovies/2007\_01/20070125.065404.p088g/c2\_rdif.html">01/25</a> 06:54 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME\_list/UNIVERSAL/2007\_01/httpng/20070125.065404.

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p097g.htp.html">1103</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2008_03/sephtx_20080325.png">PHTX</a> 2008/04/26 14:23 04/26 14:23 04/26 14:39 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2008/04/26/c2rdif_waves.html">7600</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2008/04/26/c3rdif_waves.html">4900</a> N08E09 ---
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5.p261g.htp.html">349</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_plots/sephtx/2011_01/sephtx_20110127.png">PHTX</a> 2011/02/13 17:50 02/13 18:00 <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2011/02/13/c3rdif_waves.html">8000</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/d
 58 M6.6 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_02/jsmovies/2011_02/20110213.183605.p089g/c2_rdif.html">02/13</a> 18:36 359 276 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_02/jsmovies/2011_02/httpng/20110213.18360
5.p089g.htp.html">373</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2011_02/sephtx_20110213.png">PHTX</a> 2011/02/15 02:10 02/15 07:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2011/02/15/c3rdif_waves.html">400</a> S20W12 111 58 X2.2 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/2011_02/spsovies/20
 5.p189g.htp.html">669</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2011_02/sephtx_20110215.png">PHTX</a>
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6. Mi.9 (a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies/2011_03/jmovies
64 M3.7 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_03/jsmovies/2011_03/20110307.200005.p313g/c2_rdif.html">03/07</a> 20:00 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_03/htpng/20110307.200005.
 p313g.htp.html">2125</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2011_03/sephtx_20110307.png">PHTX</a>
2011/05/09 21:00 05/10 04:00 <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2011/05/09/c3rdif_waves.html">900</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2011/05/09/c3rdif_waves.html">900</a> N16E88 --- C5.4 <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2011 05/jsmovies/2011 05/jsmovies/
p073g.htp.html">1318</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2011_05/sephtx_20110509.png">PHTX</a>
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27 C8.7 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_05/jsmovies/2011_05/20110529.212408.p105g/c2_rdif.html">05/29</a> 21:24 107 186 a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_05/htpng/20110529.212408.
p105g.htp.html">1407</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily plots/sephtx/2011 05/sephtx 20110529.png">PHTX</a>
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 27 C3.7 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_06/jsmovies/2011_06/20110602.081206.p098g/c2_rdif.html">06/02</a> 08:12 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_06/httpng/20110602.08120
6.p098g.htp.html">976</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2011_06/sephtx_20110602.png">PHTX</a> 2011/06/04 07:00 06/04 13:45 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2011_06/o4/c2rdif_waves.html">16000c/a> <
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                               <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_06/jsmovies/2011_06/jsmovies/2011_06/jcdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_06/htpng/20110604.064806.p284g/c2_rdif.html">06/04</a> 06:48 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_06/htpng/20110604.064806.p284g/c2_rdif.html">06/04</a> 06:48 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_06/html">06/04</a> 06:48 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_06/html">06/04</a> 06:48 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_06/html">06/06</a> 06:
p284g.htp.html">1407</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2011_06/sephtx_20110604.png">PHTX</a>
2011/06/04 22:00 06/07 01:30 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2011/06/04/c2rdif_waves.html">25</a> W90b 112 22 ---- <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_06/jsmovies/2011_06/04/c2rdif_waves.html">25</a> W90b 12 23 ---- <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_06/jsmovies/2011_06/21010604.220502.p300g/c2_rdif.html">06/04</a> 22:05 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_06/httpng/20110604.220502.p300g/c2_rdif.html">06/04</a> 22:05 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_06/httpng/20110604.220502.pdf]
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26 M2.5 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_06/jsmovies/2011_06/otnoor.064912.p250g/c2_rdif.html">06/07</a> 06:49 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_06/htpng/20110607.064912.p250g.htp.html">12555</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_06/htpng/20110607.png">PHTX</a>
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 36 C7.7 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_06/jsmovies/2011_06/20110621.031610.p065g/c2_rdif.html">06/21</a> 03:16 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_06/httpng/20110621.03161
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p298g.htp.html">1315</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2011_08/sephtx_20110804.png">PHTX</a>
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 63 M3.5 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_08/jsmovies/2011_08/20110808.181207.p281g/c2_rdif.html">08/08</a> 18:12 305 237 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_08/httpng/20110808.181207.
p281g.htp.html">1343</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2011_08/sephtx/2011_08/sephtx/2014_08/sephtx/2011_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08/sephtx/2012_08
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p279g.htp.html">1610</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2011_08/sephtx_20110809.png">PHTX</a>
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83 X2.1 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsmovies/2011_09/jsm
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p072g.htp.html">1905</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2011_09/sephtx_20110922.png">PHTX</a> 2011/09/24 | 12:50_09/24 | 22:45 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2011/09/24/c3rdif_waves.html">300</a> N10E56 113 02 W7.1 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_09/sephcy20110924.124807.bpg/c2_rdif.html">02 W7.1 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_09/sephcy20110924.124807.bpg/c2_rdif.html">03 
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<a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2011/11/26/c3rdif_waves.html">50</a> N17W49 113
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  2011/12/25 18:45 12/25 18:55 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2011/12/25/c2rdif_waves.html">14000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2011/12/25/c3rdif_waves.html">7000</a> S22W26 113
87 M4.0 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_12/jsmovies/2011_12/20111225.184806.p235g/c2_rdif.html">12/25</a> 18:48 247 125 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12/jsmovies/2011_12
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2012/01/19 15:00 01/20 02:45 <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2012/01/19/c2rdif_waves.html">16000</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2012/01/19/c3rdif_waves.html">100</a> N32E22 114 02 M3.2 <a href="https://cdaw.gsfc.nasa.gov/CME list/UNIVERSAL/2012 01/jsmovies/2012 01/20120119.143605.p020g/c2 rdif.html">01/19</a> 14:36 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME list/UNIVERSAL/2012 01/httpnq/20120119.143605.p020g/c2 rdif.html">01/19</a> 14:36 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME list/UNIVERSAL/2012 01/httpnq/20120119.143605.p020g
p020g.htp.html">1120</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily plots/sephtx/2012 01/sephtx 20120119.png">PHTX</a>
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29 X1.1 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsfc.nasa.gov/CME_l
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29 X5.4 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsmovies/2012_03/20120307.002406.p057g/c2_rdif.html">03/07</a> 00:24 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https://cdaw.gsfc.nasa.gov/CME_list
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29 M6.3 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsmovies/2012_03/20120309.042600.p029g/c2_rdif.html">03/09</a> 04:26 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/httpng/20120309.042600.p029g/c2_rdif.html">03/09</a> 04:26 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/html">03/09</a> 04:26 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_
9.p029g.htp.html">950</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2012_03/sephtx_20120309.png">PHTX</a>
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 29 M8.4 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsmovies/2012_03/20120310.180005.p005g/c2_rdif.html">03/10</a> 18:00 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/httpng/20120310.180005.
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29 MT.9 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2012/03/j3/c3rdif_waves.html">200</a> N17W66 114
29 MT.9 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/j3/govies/2012/0313.173605.p286g/c2_rdif.html">03/13</a> 17:36 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https/20120313.173605.p286g/c2_rdif.html">03/13</a> 17:36 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/https/20120313.173605.p286g/c2_r
p286g.htp.html">1884</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2012_03/sephtx_20120313.png">PHTX</a>
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                                   <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovi
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                                    <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies/2012_03/jsmovies
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2012/03/27 21:45 03/27 22:30 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2012/03/27/c2rdif_waves.html">4000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2012/03/27/c3rdif_waves.html">1500</a> BACK --- <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/jsmovies/2012_03/27/c2rdif_waves.html">2012/03/27/c2rdif_waves.html">2012/03/27/c2rdif_waves.html">2012/03/27/c2rdif_waves.html">2012/03/27/c2rdif_waves.html">2012/03/27/c2rdif_waves.html">2012/03/27/c2rdif_waves.html">2012/03/27/c2rdif_waves.html">2012/03/27/c2rdif_waves.html">2012/03/27/c2rdif_waves.html">2012/03/27/c2rdif_waves.html">2012/03/27/c2rdif_waves.html">2012/03/27/c2rdif_waves.html">2012/03/27/c2rdif_waves.html">2012/03/27/c2rdif_waves.html</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/html">2012/03/27/c2rdif_waves.html</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_03/ht
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 5.p248g.htp.html">622</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2012_03/sephtx_20120327.png">PHTX</a>
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51 C3.9 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_04/jsmovies/2012_04/20120409.123607.p310g/c2_rdif.html">04/09</a> 12:36 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_04/htpng/20120409.123607.p310g.htp.html">921</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2012_04/sephtx_20120409.123607.p310g.htp.html">921</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2012_04/15/c23rdif_waves.html">921</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2012/04/15/c23rdif_waves.html">921</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2012/04/15/c23rdif_waves.html">921</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2012/04/15/c3rdif_waves.html">921</a> <a href="https://cdaw.gsfc.nasa.go
 61 Cl.7 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_04/jsmovies/2012_04/20120415.022407.p089g/c2_rdif.html">04/15</a> 02:24 79 173 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_04/httpng/20120415.022407.
p089g.htp.html">1220</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_plots/sephtx/2012_04/sephtx_20120415.png">PHTX</a> 2012/05/17 01:40 05/17 06:20 <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2012/05/17/c2rdif_waves.html">16000</a>
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 76 M5.1 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_05/jsmovies/2012_05/20120517.014805.p261g/c2_rdif.html">05/17</a> 01:48 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_05/htpng/20120517.014805.
p261g.htp.html">1582</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2012_05/sephtx_20120517.png">PHTX</a>
2012/07/04 17:00 07/04 17:20 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2012/07/04/c2rdif_waves.html">14000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2012/07/04/c3rdif_waves.html">8000</a> N14W34 115 13 M1.8 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/jsmovies/2012_07/20120704.172404.p124g/c2_rdif.html">07/04</a> 17:24 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/jsmovies/2012_07/20120704.172404.p124g/c2_rdif.html">07/04</a> 17:24 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/https://daw.gsf
4.pl24g.htp.html">662</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2012_07/sephtx_20120704.png">PHTX</a>
 2012/07/05 22:40 07/05 23:50 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2012/07/05/c2rdif_waves.html">3000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2012/07/05/c3rdif_waves.html">800</a> S12W46 115
15 M1.6 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/jsmovies/2012_07/20120705.220004.p235g/c2_rdif.html">07/05</a> 22:00 220 94 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/httpng/20120705.220004.p235g.htp.html">980</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx_2012_07/sephtx_2012_07/spptx_20120705.png">PHTX</a>
 2012/07/06 23:10 07/07 03:40 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2012/07/06/c2rdif_waves.html">300</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2012/07/06/c3rdif_waves.html">300</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2012/07/06/c3rdif_waves.html">300</a>
 15 X1.1 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/jsmovies/2012_07/20120706.232406.p233g/c2_rdif.html">07/06</a> 23:24 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/htpng/20120706.232406.
 p233g.htp.html">1828</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2012_07/sephtx_20120706.png">PHTX</a>
2012/07/08 16:35 07/08 22:00 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2012/07/08/c2rdif_waves.html">16000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2012/07/08/c3rdif_waves.html">300</a> S17W74 115 M6.9 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/jsmovies/2012_07/20120708.165405.p234g/c2_rdif.html">07/08</a> 16:54 212 157 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/httpng/20120708.165405.p234g/c2_rdif.html">07/08</a> 16:54 212 157 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/httpng/20120708.165405.p234g/c2_rdif.html">0
p234g.htp.html">1495</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2012_07/sephtx_20120708.png">PHTX</a>
2012/07/12 16:45 07/13 09:00 <a href="https://cdaw.gsfc.nasa.gov/CME list/daily movies/2012/07/12/c2rdif waves.html">250</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily movies/2012/07/12/c3rdif waves.html">250</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily movies/2012/07/12/c3rdif waves.html">250</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/UNIVERSAL/2012 07/jsmovies/2012 07/20120712.164805.p158s/c2 rdif.html">07/12</a> 16:48 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME list/UNIVERSAL/2012 07/https://cdaw.gsfc.nasa.gov/CME list/UNIVERSAL/2012 07/https://daw.gsfc.nasa.gov/CME list/UNIVERSAL/2012 07/https://daw.gsfc.nasa.gov
 5.p158s.htp.html">885</a> <a href="https://cdaw.qsfc.nasa.qov/CME list/daily plots/sephtx/2012 07/sephtx 20120717.png">PHTX</a>
 20 C9.9 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/jsmovies/2012_07/20120717.134806.p241g/c2_rdif.html">07/17</a> 13:48 255 176 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/httpng/20120717.13480
6.p241g.htp.html">958</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_plots/sephtx/2012_07/sephtx_20120717.png">PHTX</a> 2012/07/19 05:30 07/19 06:20 <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2012/07/19/c2rdif_waves.html">5000</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2012/07/19/c2rdif_waves.html">5000</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2012/07/19/c3rdif_waves.html">600</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2012/
                                   <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmovies/2012_07/jsmov
p275g.htp.html">1631</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2012_07/sephtx_20120719.png">PHTX</a>
2012/07/23 02:30 07/23 21:40 <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2012/07/23/c2rdif_waves.html">16000</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2012/07/23/c3rdif_waves.html">20</a> $17\132 115 20 ---- <a href="https://cdaw.gsfc.nasa.gov/CME list/UNIVERSAL/2012 07/jsmovies/2012 07/20120723.023605.p286g/c2 rdif.html">07/23</a> 02:36 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME list/UNIVERSAL/2012 07/httpnq/20120723.023605.p286g/c2 rdif.html">07/23</a> 02:36 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME list/UNIVERSAL/2012 07/httpnq/20120723.023605.p286g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                p286g.htp.html">2003</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2012_07/sephtx_20120723.png">PHTX</a>
 2012/08/31 20:00 08/31 23:45 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2012/08/31/c2rdif_waves.html">10000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2012/08/31/c3rdif_waves.html">400</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2012/08/31/c3rdif_waves.html">400</a>
63 C8.1 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsmovies/2012_08/jsm
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 77 C3.7 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_09/jsmovies/2012_09/20120928.001205.p251g/c2_rdif.html">09/28</a> 00:12 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_09/httpng/20120928.00120
5.p251g.htp.html">947</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2012_09/sephtx_2012/0927.png">PHTX</a> 2012/10/22 01:50 10/22 11:15 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2012/10/22/c3rdif_waves.html">200</a> S10E76 115 98 MI.3 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2012_10/21/2012_10/22/20174">3012/10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/20174 | 3012/2012_10/22/2012_10/22/20174 | 3012/2012_10/22/2012_10/22/20174 | 3012/2012_10/22/2012_10/22/20174 | 3012/2012_10/22/2012_10/22/20
 8.p090g.htp.html">496</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2012_10/sephtx_20121022.png">PHTX</a>
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 5.p236g.htp.html">648</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily plots/sephtx/2013 01/sephtx 20130116.png">PHTX</a>
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92 M1.1 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_03/jsmovies/2013_03/20130315.071205.p112g/c2_rdif.html">03/15</a> 07:12 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_03/htpng/20130315.071205.
p112g.htp.html">1063</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2013_03/sephtx_20130315.png">PHTX</a>
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 19 M6.5 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/jsmovies/2013_04/20130411.072406.p085g/c2_rdif.html">04/11</a> 07:24 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_04/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_0
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 EP C1.3 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_09/jsmovies/2013_09/20130929.221205.p343g/c2_rdif.html">09/29</a> 22:12 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_09/20130929.221205.p343g/c2_rdif.html">09/29</a> 32:12 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013
 5.p343g.htp.html">1179</a> / a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2013_09/sephtx_20130929.png">PPTTX</a> / a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2013_09/sephtx_20130929.png">PPTTX</a> / a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2013/10/02/c3rdif_waves.html">>10000x/a> / a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2013/10/02/c3rdif_waves.html">>10000x/a> / a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_10/20131002.203605.p288g/c2_rdif.html">>10000x/a> / a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_10/20131002.203605.p288g/c2_rdif.html">>1000x/a> / a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_10/20131002.203605.p288g/c2_rdif.html">>1000x/a> / a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_10/20131002.203605.p288g/c2_rdif.html">>1000x/a> / a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_10/20131002.203605.p288g/c2_rdif.html">>100x/a> / a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_1
   5.p288g.htp.html">619</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2013_10/sephtx_20131002.png">PHTX</a>
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 65 ---- <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_10/jsmovies/2013_10/20131005.070951.pl10g/c2_rdif.html">10/05</a> 07:09 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plotes/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/2013_10/sephtx/20
                                         <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_10/jsmovies/2013_10/20131011.072410.p092g/c2_rdif.htm1">10/11</a> 07:24 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_10/httpng/20131011.072410.</p>
 p092g.htp.html">12004/a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2013_10/sephtx_20131011.png">PHTX</a> 2013/10/13 18:47 10/14 05:15 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2013/10/13/c2rdif_waves.html">21004/a>
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                                          <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_10/jsmovies/2013_10/20131013.141205.p221g/c2_rdif.htm1">10/13</a>> 14:12 220 83 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_10/htpng/20131013.14120</pre>
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 75.p42.19.10/22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.22 22:103 40.19.2
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 82 X2.1 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_10/jsmovies/2013_10/20131025.151209.p068g/c2_rdif.html">10/25</a> 15:12 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_10/htmg/20131025.151209.p068g.htp.html">10/25</a> 15:12 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_10/htmg/20131025.151209.p068g.htp.html">10/25</a> 15:12 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_10/htmg/20131025.151209.p068g.htp.html">10/25</a> 15:12 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2013_10/htmg/20131025.pmg">10/25</a> 15:12 Halo 360 <a href="https://cdaw.gs
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75 C9.1 <a href="https://cdaw.gsfc.nasa.gov/CME list/UNIVERSAL/2013 10/27/smovies/2013 10/27181205.p292g/c2 rdif.html">10/27</a> 18:12 308 189 <a href="https://cdaw.gsfc.nasa.gov/CME list/UNIVERSAL/2013 10/https://cdaw.gsfc.nasa.gov/CME list/UNIVERSAL/2013 10/https://daw.gsfc.nasa.gov/CME list/UNIVERSAL/
   5.p292g.htp.html">795</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily plots/sephtx/2013 10/sephtx 20131027.png">PPHTX/oa
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#### Project 1

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17 M2.6 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_03/20140328.234807.p327g/c2_rdif.html">5018/2014_03/20140328.234807.p327g/c2_rdif.html">5018/2014_03/20140328.234807.p327g/c2_rdif.html">5018/2014_03/20140328.234807.p327g/c2_rdif.html">5018/2014_03/20140328.234807.p327g/c2_rdif.html">5018/2014_03/2014_03/20140328.234807.p327g/htp.html">5018/2014_03/2014_03/20140328.234807.p327g/htp.html">5018/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/2014_03/
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  2014/12/18 22:31 12/18 22:54 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2014/12/18/c2rdif_waves.html">5100</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2014/12/18/c3rdif_waves.html">120</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2014/12/18/c3rdif_waves.html">120</a>
41 M6.9 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/jsmovies/2014_12/20141219.010442_p098g/c2_rdif.html">12/19</a> 01:04 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/httpg/20141219.01044219.p098g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_rdif.html">1998g/c2_r
  41 M1.0 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/jsmovies/2014_12/20141221.121205.p189g/c2_rdif.html">12/21</a> 12:12 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/jsmovies/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2014_12/https://cdaw.gsfc.nasa.gov/CME_list
5.p321g.htp.html">764</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2015_03/sephtx_20150303.png">PHTX</a>
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97 M1.5 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsmovies/2015_03/jsm
  2015/03/10 00:10 03/10 00:27 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2015/03/10/c3rdif_waves.html">14000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2015/03/10/c3rdif_waves.html">6200</a>
  97 M5.8 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_03/jsmovies/2015_03/20150310.000005.p107g/c2_rdif.html">03/10</a> 00:00 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_03/httpng/20150310.00000
5.pl07g.htp.html">995</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2015_03/sephtx_20150310.png">PHTX(a>
2015/03/11 10:30 03/11 14:50 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2015/03/11/c3rdif_waves.html">205</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2015_03/11/c3rdif_waves.html">250</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2015_03/11/c3rdif_waves.html">250</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/20150311.08240">2015_03/htpng/2015_03/htpng/20150311.08240">2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htpng/2015_03/htp
  5.p067g.htp.html">530</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2015_03/sephtx_20150311.png">PHTX</a>
2015/03/24 09:00 03/24 11:47 a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2015/03/24/c2rdif_waves.html">400</a> SW90b ---
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<a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2015/03/24/c2rdif_waves.html">53/24</a> 08:24 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_03/jsmovies/2015_03/24/c32dif_waves.html">03/24</a> 08:24 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_03/htpng/20150324.082405.
 p255g.htp.html">1794</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2015_03/sephtx_20150324.png">PHTX</a>
  2015/04/26 03:21 04/26 03:33 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2015/04/26/c2rdif_waves.html">8000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2015/04/26/c3rdif_waves.html">4600</a>
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7.p283g.htp.html">772</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2015_05/sephtx_20150512.png">PHTX</a> uncertain
2015/06/09 20:23 dof/09 20:33 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2015/06/09/c3rdif_waves.html">200</a> 
 p067g.htp.html">1036</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2015_06/sephtx_20150609.png">PHTX</a>
  2015/06/14 05:26 06/14 05:41 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2015/06/14/c2rdif_waves.html">3000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2015/06/14/c3rdif_waves.html">1250</a> S12W34 123
65 C5.9 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_06/jsmovies/2015_06/20150614.041206.p222g/c2_rdif.html">06/14</a> 04:12 199 195 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_06/htpng/20150614.041206.p222g/c2_rdif.html">199 195 <a href="https://cdaw.gsfc.nasa.gov/CME_list/Universal/2015_06/htpng/20150614.041206.p222g/c2_rdif.html">PHTX</a> 2015/06/18 19:40 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2015/06/18/c3rdif_waves.html">500</a> N15E50 123 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2015/06/18/c3rdif_waves.html">500</a> N15E50 123
  71 M3.0 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_06/jsmovies/2015_06/20150618.172424.p092g/c2_rdif.html">06/18</a> 17:24 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_06/htpng/20150618.172424.
  p092g.htp.html">1305</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2015_06/sephtx_20150618.png">PHTX</a>
2015/06/21 02:33 06/21 21:20 <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2015/06/21/c2rdif_waves.html">5500</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily_movies/2015/06/21/c3rdif_waves.html">500</a> 
                                                                                                    <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2015_06/sephtx_20150621.png">PHTX</a>
2015/06/22 18:20 06/22 21:55 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2015/06/22/c3rdif_waves.html">300</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2015/06/22/c3rdif_waves.html">300</a> N12W08 123 71 M6.5 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_06/jsmovies/2015_06/20150622.183605.p358g/c2_rdif.html">06/22</a> 18:36 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_06/httpng/20150622.183605.p358g/c2_rdif.html">06/22</a> 18:36 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_06/httpng/20150622.183605.pdf]
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  71 M7.9 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_06/jsmovies/2015_06/20150625.083605.p330g/c2_rdif.html">06/25</a> 08:36 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_06/htpng/20150625.083605.
 330g.htp.html">1627</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2015_06/sephtx_20150625.png">PHTX</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2015/07/01/c2rdif_waves.html">1000.701 20:47 <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2015/07/01/c2rdif_waves.html">0000.701 20:47 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_07/07/01/c3rdif_waves.html">0000.701 20:47 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_07/07/01/c3rdif_waves.html">0000.701 20:47 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_07/07/01/c3rdif_waves.html">0000.701 20:47 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_07/01/c3rdif_waves.html">0000.701 20:47 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_07/https://cdaw.gsfc.nasa.gov/CME_list/UNIV
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2015/08/22 07:07 08/22 07:07 08/22 07:07 08/22 07:08 da href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2015/08/22/c2rdif_waves.html">14000</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_movies/2015/08/22/c3rdif_waves.html">7300</a> S15E13 124 03 M1.2 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_08/jsmovies/2015_08/20150822.071204.p095g/c2_rdif.html">08/22</a> 07:12 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_08/httpg/20150822.071204.p095g/c2_rdif.html">08/22</a> 07:12 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_08/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_08/https://daw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_08/https://daw.gsfc.nasa.gov/CME_list/UNIV
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15 C2.6 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_09/psmovies/2015_09/20150918.050006.p188g/c2 rdif.html">09/18</a> 05:00 201 131 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_09/httpng/20150918.050006.p188g.htp.html">823</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2015_09/sephtx_20150918.png">PHTX</a>
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3 M 3.7 . <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_11/jmsovies/2015_11/20151104.144804.pzg/c2rdif_html">11/04</a> 14:48 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_11/jmsovies/2015_11/144804.pzg/c2rdif_html">11/04</a> 14:48 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME_list/UNIVERSAL/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_11/jmsovies/2015_1
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4.p334g.htp.html">579</a> <a href="https://cdaw.gsfc.nasa.gov/CME_list/daily_plots/sephtx/2015/12/3o/2rdif waves.html">12/3o/2rdif waves.html</a>
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73 M1.8 <a href="https://cdaw.qsfc.nasa.qov/CME list/UNIVERSAL/2015 12/jsmovies/2015 12/20151228.121205.p163q/c2 rdif.html">12/28</a> 12:12 Halo 360 <a href="https://cdaw.qsfc.nasa.qov/CME list/UNIVERSAL/2015 12/jsmovies/2015 12/20151228.121205.p163q/c2 rdif.html">12/28</a> 12:12 Halo 360 <a href="https://cdaw.qsfc.nasa.qov/CME list/UNIVERSAL/2015 12/jsmovies/2015 12/20151228.121205.p163q/c2 rdif.html">12/28</a> 12:12 Halo 360 <a href="https://cdaw.qsfc.nasa.qov/CME list/UNIVERSAL/2015 12/jsmovies/2015 12/20151228.121205.p163q/c2 rdif.html">12/28</a> 12:12 Halo 360 <a href="https://cdaw.qsfc.nasa.qov/CME list/UNIVERSAL/2015 12/jsmovies/2015 12/20151228.121205.p163q/c2 rdif.html">12/28</a> 12:12 Halo 360 <a href="https://cdaw.qsfc.nasa.qov/CME list/UNIVERSAL/2015 12/jsmovies/2015 12/20151228.121205.p163q/c2 rdif.html">12/28</a> 12:12 Halo 360 <a href="https://cdaw.qsfc.nasa.qov/CME list/UNIVERSAL/2015 12/jsmovies/2015 12/20151228.121205.p163q/c2 rdif.html">12/28</a> 12:12 Halo 360 <a href="https://cdaw.qsfc.nasa.qov/CME list/UNIVERSAL/2015 pl63g.htp.html">1212</a> <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_plots/sephtx/2015\_12/sephtx\_20151228.png">PHTX</a> 2016/01/02 00:55 01/02 03:08 <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_movies/2016/01/02/c2rdif\_waves.html">1100</a> <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_movies/2016/01/02/c3rdif\_waves.html">300</a> <a href="https://cdaw.gsfc.nasa.gov/CME\_list/UNIVERSAL/2016\_01/jsmovies/2016\_01/02/c2rdif\_haves.html">300</a> <a href="https://cdaw.gsfc.nasa.gov/CME\_list/UNIVERSAL/2016\_01/jsmovies 2016/02/05 20:28 02/05 23:31 <a href="https://cdaw.gsfc.nasa.gov/CME list/daily movies/2016/02/05/c2rdif waves.html">500</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily movies/2016/02/05/c3rdif waves.html">500</a> <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_plots/sephtx/2016\_02/sephtx\_20160205.png">PHTX</a> uncertain 2016/02/05 22:35 02/05 22:55 <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_movies/2016/02/05/c2rdif\_waves.html">5200</a> <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_movies/2016/02/05/c3rdif\_waves.html">5200</a> <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_movies/2016/02/05/c3rdif\_waves.html">5200</a> <a href="https://cdaw.gsfc.nasa.gov/CME\_list/UNIVERSAL/2016\_02/jsmovies/2016\_02/20160205.212404.p241s/c2\_rdif.html">5200</a> <a href="https://cdaw.gsfc.nasa.gov/CME\_list/UNIVERSAL/2016\_02/jsmovies/2016\_02/20160205.212404.p241s/c2\_rdif.html">5200</a> <a href="https://cdaw.gsfc.nasa.gov/CME\_list/UNIVERSAL/2016\_02/https://c <a href="https://cdaw.gsfc.nasa.gov/CME list/daily plots/sephtx/2016 02/sephtx 20160205.png">PHTX</a> 2016/05/04 14:20 05/04 14:34 <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_movies/2016/05/04/c3rdif\_waves.html">10500</a> N06W61 125 <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_plots/sephtx/2016\_05/sephtx\_20160524.png">PHTX</a> uncertain 2016/08/15 18:21 08/15 18:28 <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_movies/2016/08/15/c2rdif\_waves.html">1000</a> <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_movies/2016/08/15/c3rdif\_waves.html">3400</a> E90b --- <a href="https://cdaw.gsfc.nasa.gov/CME\_list/UNIVERSAL/2016\_08/jsmovies/2016\_08/ <a href="https://cdaw.gsfc.nasa.gov/CME list/daily plots/sephtx/2016 08/sephtx 20160815.png">PHTXX/a> 2017/04/23 06:00 04/23 06:13 <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_movies/2017/04/23/c2rdif\_waves.html">15000</a> <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_movies/2017/04/23/c3rdif\_waves.html">8300</a> N16E41 ---<a href="https://cdaw.gsfc.nasa.gov/CME\_list/UNIVERSAL/2017\_04/jsmovies/2017\_04/jsmovi 5.p088g.htp.html">955</a> <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_plots/sephtx/2017\_04/sephtx\_20170423.png">PHTX</a> 2017/07/14 01:18 07/14 21:30 <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_plots/sephtx/2017\_04/sephtx\_20170423.png">PHTX</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily movies/2017/07/14/c3rdif waves.html">70</a> S06W29 126 65 M2.4 <a href="https://cdaw.gsfc.nasa.gov/CME\_list/UNIVERSAL/2017\_07/jsmovies/2017\_07/20170714.012541.p230g/c2\_rdif.html">07/14</a> 01:25 Halo 360 <a href="https://cdaw.gsfc.nasa.gov/CME\_list/UNIVERSAL/2017\_07/httpng/20170714.012541. p134g.htp.html">1848</a> <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_plots/sephtx/2017\_07/sephtx\_20170723.png">PHTX</a> faint 2017/09/04 20:27 09/05 04:54 <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_movies/2017/09/04/c2rdif\_waves.html">1400</a> <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_movies/2017/09/04/c3rdif\_waves.html">210</a> <a href="https://cdaw.gsfc.nasa.gov/CME\_list/UNIVERSAL/2017\_09/jsmovies/2017\_09/35.70%]
73 M5.5 <a href="https://cdaw.gsfc.nasa.gov/CME\_list/UNIVERSAL/2017\_09/jsmovies/2017\_09/45.70%]
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80 href="https://cdaw.gsfc.nasa.gov/CME\_list/UNIVERSAL/2017\_09/45.70%]
80 href="https://cdaw.gsfc.nasa.gov/CME\_list/UNIVERSAL/2017\_09/45.70%]
81 href 2017/09/06 12:05 09/07 08:00 <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_movies/2017/09/06/c2rdif\_waves.html">70</a> S08W33 126 73 X9.3 <a href="https://cdaw.gsfc.nasa.gov/CME\_list/UNIVERSAL/2017\_09/spowies/2017\_09/cos/caif\_waves.html">157 X9.3 <a href="https://cdaw.gsfc.nasa.gov/CME\_list/UNIVERSAL/2017\_09/https/2017096.122405.p201g/c2\_rdif.html">2010/06/c2/caif\_waves.html">2010/c6/ca> 12:2405.p201g/c2\_rdif.html">2010/c6/ca> 12:2405.p201g/c2\_rdif.htm p262g.htp.html">3163</a> <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_plots/sephtx/2017\_09/sephtx\_20170910.png">PHTX</a> onset has WAVES Data Gap 2017/09/12 07:38 09/12 07:43 <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_movies/2017/09/12/c3rdif\_waves.html">16000</a> <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_movies/2017/09/12/c3rdif\_waves.html">13000</a> N08E48 126 80 C3.0 <a href="https://cdaw.gsfc.nasa.gov/CME\_list/UNIVERSAL/2017\_09/jsmovies/2017\_09/jsmov 3.p106g.htp.html">252</a> <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_plots/sephtx/2017\_09/sephtx\_20170912.png">PHTX</a> uncertain 2017/09/17 11:45 09/17 12:35 <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_movies/2017/09/17/c3rdif\_waves.html">900</a> <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_movies/2017/09/17/c3rdif\_waves.html">900</a> <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_movies/2017/09/17/c3rdif\_waves.html">900</a> <a href="https://cdaw.gsfc.nasa.gov/CME\_list/daily\_movies/2017\_09/17/c3rdif\_waves.html">900</a> < p072g.htp.html">1385</a> <a href="https://cdaw.gsfc.nasa.gov/CME list/daily plots/sephtx/2017 09/sephtx 20170917.png">PHTX</a> STEREO A data #Putting each line of the html into an arrat text = nasa\_table.get\_text() lines = text.split('\n') lines = lines[12:-2] #creating empty dataframe new\_nasa = pd.DataFrame(columns=['start\_date', 'start\_time', 'end\_date', 'end\_time', 'start\_frequency', 'end\_frequency', 'flare\_location', 'flare\_region', 'flare\_classification', 'cme\_date', 'cme\_time', 'cme\_angle', 'cme\_width', 'cme\_speed'], index = range(0,len(lines))) #Filling dataframe with html values. Splitting each line on whitespace row marker = 0 for line in lines: columns = line.split() column\_marker = 0 for cell in columns[:14]: new\_nasa.iloc[row\_marker][column\_marker] = cell column marker+=1 row marker+=1 new nasa start date start time end date end time start frequency end frequency flare location flare region flare classification cme width cme speed 0 1997/04/01 04/01 14:15 8000 4000 S25E16 79 312 14:00 8026 M1.3 04/01

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	<b>1</b> 1997/04/07	14:30	04/07	17:30	11000	1000	S28E19	8027	C6.8	04/07	14:27	Halo	360	878
	<b>2</b> 1997/05/12	05:15	05/14	16:00	12000	80	N21W08	8038	C1.3	05/12	05:30	Halo	360	464
	<b>3</b> 1997/05/21	20:20	05/21	22:00	5000	500	N05W12	8040	M1.3	05/21	21:00	263	165	296
	4 1997/09/23	21:53	09/23	22:16	6000	2000	S29E25	8088	C1.4	09/23	22:02	133	155	712
5	13 2017/09/04	20:27	09/05	04:54	14000	210	S10W12	12673	M5.5	09/04	20:12	Halo	360	1418
5	14 2017/09/06	12:05	09/07	08:00	16000	70	S08W33	12673	X9.3	09/06	12:24	Halo	360	1571
5	15 2017/09/10	16:02	09/11	06:50	16000	150	S09W92		X8.3	09/10	16:00	Halo	360	3163
5	16 2017/09/12	07:38	09/12	07:43	16000	13000	N08E48	12680	C3.0	09/12	08:03	124	96	252
	<b>17</b> 2017/09/17	11:45	09/17	12:35	16000	900	S08E170			09/17	12:00	Halo	360	1385

518 rows × 14 columns

#### Tidying the NASA data

```
In [13]: def onlyInt(x): # Helper
               bad_chars = [';', '>', 'h']
               x = str(x)
               for i in bad_chars:
                   x = x.replace(i, '')
               return x
           #Replacing unavailable data with NaN
           new_nasa = new_nasa.replace('????', 'NaN')
           #New is_halo column that returns if cme_angle is a halo. Replace all hale ine cme_angle with NaN
           new_nasa["is_halo"] = new_nasa['cme_angle'].map(lambda x: x == 'Halo')
           new_nasa = new_nasa.replace('Halo', 'NA')
           #New width lower bound that indicates if the cme width is given as a lower bound
           new_nasa["width_lower_bound"] = new_nasa['cme_width'].map(lambda x: str(x)[0] == '>')
           #Removing non numeric parts of cme width
           new_nasa["cme_width"] = new_nasa["cme_width"].map(lambda x: onlyInt(x))
           new nasa
               start_date start_time end_date end_time start_frequency end_frequency flare_location flare_region flare_classification cme_date cme_time cme_angle cme_width cme_speed is_halo width_lower_bound
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         518 rows x 16 columns
           #Combining date and time columns for start, end and cme
           for row in range(0,len(lines)):
               temp = new_nasa.values[row][0].split('/')[0] # Getting each year
new_nasa.iloc[row, 2] = temp + '/' + new_nasa.values[row][2] # Replacing end_date
               new_nasa.iloc[row, 9] = temp + '/' + new_nasa.values[row][9] # Replacing cme_date
           new_nasa=new_nasa.replace('24:00','00:00') #Replace 24:00 with 00:00
           new_nasa('start_datetime') = pd.to_datetime(new_nasa('start_date') + ' ' + new_nasa('start_time'))
new_nasa('end_datetime') = pd.to_datetime(new_nasa('end_date') + ' ' + new_nasa('end_time'))
           new nasa['cme_datetime'] = pd.to_datetime(new_nasa['cme_date'] + ' ' + new_nasa['cme_time'], errors='coerce')
           new_nasa
               start_date start_time end_date end_time start_frequency end_frequency flare_location flare_region flare_classification cme_date cme_time cme_angle cme_width cme_speed is_halo width_lower_bound
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                                                   12:35
         518 rows x 19 columns
In [15]: new_nasa = new_nasa[['start_datetime', 'end_datetime', 'start_frequency', 'end_frequency',
```

file:///Users/tunderockson/Downloads/Project 1 (1).html

Out[15]:	sta	rt_datetime	end_datetime	start_frequency	end_frequency	flare_location	flare_region	flare_classification	cme_datetime	cme_angle	cme_width	cme_speed	is_halo	width_lower_bound
	<b>0</b> 1997-04	-01 14:00:00	1997-04-01 14:15:00	8000	4000	S25E16	8026	M1.3	1997-04-01 15:18:00	74	79	312	False	False
	<b>1</b> 1997-04	-07 14:30:00	1997-04-07 17:30:00	11000	1000	S28E19	8027	C6.8	1997-04-07 14:27:00	NA	360	878	True	False
	<b>2</b> 1997-05	-12 05:15:00	1997-05-14 16:00:00	12000	80	N21W08	8038	C1.3	1997-05-12 05:30:00	NA	360	464	True	False
	<b>3</b> 1997-05	-21 20:20:00	1997-05-21 22:00:00	5000	500	N05W12	8040	M1.3	1997-05-21 21:00:00	263	165	296	False	False
	4 1997-09	-23 21:53:00	1997-09-23 22:16:00	6000	2000	S29E25	8088	C1.4	1997-09-23 22:02:00	133	155	712	False	False
5	<b>13</b> 2017-09-	-04 20:27:00	2017-09-05 04:54:00	14000	210	S10W12	12673	M5.5	2017-09-04 20:12:00	NA	360	1418	True	False
5	<b>14</b> 2017-09	-06 12:05:00	2017-09-07 08:00:00	16000	70	S08W33	12673	X9.3	2017-09-06 12:24:00	NA	360	1571	True	False
Ę	<b>15</b> 2017-09	-10 16:02:00	2017-09-11 06:50:00	16000	150	S09W92	NaN	X8.3	2017-09-10 16:00:00	NA	360	3163	True	False
5	<b>16</b> 2017-09	-12 07:38:00	2017-09-12 07:43:00	16000	13000	N08E48	12680	C3.0	2017-09-12 08:03:00	124	96	252	False	False
ŧ	<b>17</b> 2017-09	9-17 11:45:00	2017-09-17 12:35:00	16000	900	S08E170	NaN	NaN	2017-09-17 12:00:00	NA	360	1385	True	False

518 rows × 13 columns

# Part 2: Analysis

## Replication

```
import warnings
warnings.filterwarnings('ignore')
#Obtaining the top 50 flares
#Getting X class rows
top_50 = new_nasa[new_nasa['flare_classification'].str.contains('X')]

#Creating column for sorting the X class flares
top_50['flare'] = top_50.flare_classification.str.strip('X').astype(float)
top_50 = top_50.sort_values(by=('flare'), ascending=Palse)

#Top 50
top_50 = top_50.head(50)

#Resetting the index
top_50.index = range(l,len(top_50)+1)

#Removed extra column used for sorting
top_50.drop('flare',l, inplace=True)
top_50.
```

t[16]:		start_datetime	end_datetime	start_frequency	end_frequency	flare_location	flare_region	flare_classification	cme_datetime	cme_angle	cme_width	cme_speed	is_halo	width_lower_bound
	1	2003-11-04 20:00:00	2003-11-04 00:00:00	10000	200	S19W83	10486	X28.	2003-11-04 19:54:00	NA	360	2657	True	False
	2	2001-04-02 22:05:00	2001-04-03 02:30:00	14000	250	N19W72	9393	X20.	2001-04-02 22:06:00	261	244	2505	False	False
	3	2003-10-28 11:10:00	2003-10-29 00:00:00	14000	40	S16E08	10486	X17.	2003-10-28 11:30:00	NA	360	2459	True	False
	4	2001-04-15 14:05:00	2001-04-16 13:00:00	14000	40	S20W85	9415	X14.	2001-04-15 14:06:00	245	167	1199	False	False
	5	2003-10-29 20:55:00	2003-10-29 00:00:00	11000	500	S15W02	10486	X10.	2003-10-29 20:54:00	NA	360	2029	True	False
	6	1997-11-06 12:20:00	1997-11-07 08:30:00	14000	100	S18W63	8100	X9.4	1997-11-06 12:10:00	NA	360	1556	True	False
	7	2017-09-06 12:05:00	2017-09-07 08:00:00	16000	70	S08W33	12673	X9.3	2017-09-06 12:24:00	NA	360	1571	True	False
	8	2006-12-05 10:50:00	2006-12-05 20:00:00	14000	250	S07E68	10930	X9.0	NaT	NaN	NaN	NaN	False	False
	9	2003-11-02 17:30:00	2003-11-03 01:00:00	12000	250	S14W56	10486	X8.3	2003-11-02 17:30:00	NA	360	2598	True	False
	10	2017-09-10 16:02:00	2017-09-11 06:50:00	16000	150	S09W92	NaN	X8.3	2017-09-10 16:00:00	NA	360	3163	True	False
	11	2005-01-20 07:15:00	2005-01-20 16:30:00	14000	25	N14W61	10720	X7.1	2005-01-20 06:54:00	NA	360	882	True	False
	12	2011-08-09 08:20:00	2011-08-09 08:35:00	16000	4000	N17W69	11263	X6.9	2011-08-09 08:12:00	NA	360	1610	True	False
	13	2006-12-06 19:00:00	2006-12-08 00:00:00	16000	30	S05E64	10930	X6.5	NaT	NaN	NaN	NaN	False	False
	14	2005-09-09 19:45:00	2005-09-09 22:00:00	10000	50	S12E67	10808	X6.2	2005-09-09 19:48:00	NA	360	2257	True	False
	15	2000-07-14 10:30:00	2000-07-15 14:30:00	14000	80	N22W07	9077	X5.7	2000-07-14 10:54:00	NA	360	1674	True	False
	16	2001-04-06 19:35:00	2001-04-07 01:50:00	14000	230	S21E31	9415	X5.6	2001-04-06 19:30:00	NA	360	1270	True	False
	17	2012-03-07 01:00:00	2012-03-08 19:00:00	16000	30	N17E27	11429	X5.4	2012-03-07 00:24:00	NA	360	2684	True	False
	18	2001-08-25 16:50:00	2001-08-25 23:00:00	8000	170	S17E34	9591	X5.3	2001-08-25 16:50:00	NA	360	1433	True	False
	19	2014-02-25 00:56:00	2014-02-25 11:28:00	14000	100	S12E82	11990	X4.9	2014-02-25 01:25:00	NA	360	2147	True	False

	start_datetime	end_datetime	start_frequency	end_frequency	flare_location	flare_region	flare_classification	cme_datetime	cme_angle	cme_width	cme_speed	is_halo	width_lower_bound
20	2002-07-23 00:50:00	2002-07-23 04:00:00	11000	400	S13E72	10039	X4.8	2002-07-23 00:42:00	NA	360	2285	True	False
21	2000-11-26 17:00:00	2000-11-26 17:15:00	14000	7000	N18W38	9236	X4.0	2000-11-26 17:06:00	NA	360	980	True	False
22	2003-11-03 10:00:00	2003-11-03 12:30:00	6000	400	N08W77	10488	X3.9	2003-11-03 10:06:00	293	103	1420	False	False
23	2005-01-17 10:00:00	2005-01-17 10:35:00	6100	1500	N15W25	10720	X3.8	2005-01-17 09:54:00	NA	360	2547	True	False
24	2003-05-28 01:00:00	2003-05-29 00:30:00	1000	200	S07W20	10365	X3.6	2003-05-28 00:50:00	NA	360	1366	True	False
25	2006-12-13 02:45:00	2006-12-13 10:40:00	12000	150	S06W23	10930	X3.4	2006-12-13 02:54:00	NA	360	1774	True	False
26	2001-12-28 20:35:00	2001-12-29 03:00:00	14000	350	S26E90	9756	X3.4	2001-12-28 20:30:00	NA	360	2216	True	False
27	2002-07-20 21:30:00	2002-07-20 22:20:00	10000	2000	S13E90	10039	X3.3	2002-07-20 22:06:00	NA	360	1941	True	False
28	2013-05-14 01:16:00	2013-05-14 08:20:00	16000	240	N08E77	11748	X3.2	2013-05-14 01:25:00	NA	360	2625	True	False
29	2002-08-24 01:45:00	2002-08-24 03:25:00	5000	400	S02W81	10069	X3.1	2002-08-24 01:27:00	NA	360	1913	True	False
30	2013-05-13 16:15:00	2013-05-13 19:10:00	16000	300	N11E85	11748	X2.8	2013-05-13 16:07:00	NA	360	1850	True	False
31	2015-05-05 22:24:00	2015-05-05 23:14:00	14000	500	N15E79	12339	X2.7	2015-05-05 22:24:00	NA	360	715	True	False
32	1998-05-06 08:25:00	1998-05-06 08:35:00	14000	5000	S11W65	8210	X2.7	1998-05-06 08:29:00	309	190	1099	False	False
33	2003-11-03 01:15:00	2003-11-03 01:25:00	3000	1500	N10W83	10488	X2.7	2003-11-03 01:59:00	304	65	827	False	False
34	2005-01-15 23:00:00	2005-01-17 00:00:00	3000	40	N15W05	10720	X2.6	2005-01-15 23:06:00	NA	360	2861	True	False
35	2001-09-24 10:45:00	2001-09-25 20:00:00	7000	30	S16E23	9632	X2.6	2001-09-24 10:30:00	NA	360	2402	True	False
36	1997-11-27 13:30:00	1997-11-27 14:00:00	14000	7000	N17E63	8113	X2.6	1997-11-27 13:56:00	98	91	441	False	False
37	2004-11-10 02:25:00	2004-11-10 03:40:00	14000	1000	N09W49	10696	X2.5	2004-11-10 02:26:00	NA	360	3387	True	False
38	2001-04-10 05:24:00	2001-04-10 00:00:00	14000	100	S23W09	9415	X2.3	2001-04-10 05:30:00	NA	360	2411	True	False
39	2000-11-24 15:25:00	2000-11-24 22:00:00	14000	200	N22W07	9236	X2.3	2000-11-24 15:30:00	NA	360	1245	True	False
40	2000-06-06 15:20:00	2000-06-08 09:00:00	14000	40	N20E18	9026	X2.3	2000-06-06 15:54:00	NA	360	1119	True	False
41	2011-02-15 02:10:00	2011-02-15 07:00:00	16000	400	S20W12	11158	X2.2	2011-02-15 02:24:00	NA	360	669	True	False
42	2005-09-10 21:45:00	2005-09-11 01:00:00	14000	200	S13E47	10808	X2.1	2005-09-10 21:52:00	NA	360	1893	True	False
43	2011-09-06 22:30:00	2011-09-07 15:40:00	16000	150	N14W18	11283	X2.1	2011-09-06 23:05:00	NA	360	575	True	False
44	2013-10-25 15:08:00	2013-10-25 22:32:00	16000	200	S06E69	11882	X2.1	2013-10-25 15:12:00	NA	360	1081	True	False
45	1997-11-04 06:00:00	1997-11-05 04:30:00	14000	100	S14W33	8100	X2.1	1997-11-04 06:10:00	NA	360	785	True	False
46	2000-11-24 05:10:00	2000-11-24 15:00:00	14000	100	N20W05	9236	X2.0	2000-11-24 05:30:00	NA	360	1289	True	False
47	2001-04-12 10:20:00	2001-04-12 10:40:00	14000	7000	S19W43	9415	X2.0	2001-04-12 10:31:00	NA	360	1184	True	False
48	2004-11-07 16:25:00	2004-11-08 20:00:00	14000	60	N09W17	10696	X2.0	2004-11-07 16:54:00	NA	360	1759	True	False
49	2005-01-17 09:25:00	2005-01-17 16:00:00	14000	30	N15W25	10720	X2.0	2005-01-17 09:30:00	NA	360	2094	True	False
50	2000-11-25 19:00:00	2000-11-25 19:35:00	6000	2000	N20W23	9236	X1.9	2000-11-25 19:31:00	NA	360	671	True	False

A lot of the observations from the SpaceWeatherLive data seem to be present in the NASA table based on the flare classification but the information inside the similar observations seems to be slightly different. The regions are the same for the most part, the times rarely match and there are quite a new flare classifications in the SpaceWeatherLive dataset that aren't present in the NASA dataset.

## Integration

```
In [17]: \left| \begin{tabular}{ll} \begin{tabular} \begin{tabular}{ll} \begin{tabular}{ll} \begin{tabular}{
                                                                             try:
                                                                                                return float(s)
                                                                              except ValueError:
                                                                                                   return s
                                                         newsolar = table #making a copy of the SpaceWeatherLive data table
                                                         newnasa = new_nasa #making a copy of the NASA data table
                                                         newnasa['SWL_rank'] = pd.Series('NaN', index=newnasa.index)
                                                         #getting flare classification column ready for comparison with masa's flare classifications
                                                        newsolar['x_class'] = newsolar['x_class'].str.strip('X')
newsolar['x_class'][:4] = newsolar['x_class'][:4].str.strip('+')
                                                         newsolar['x_class']=newsolar['x_class'].astype(float)
                                                         #This function iterates through the whole solar table and checks if the region and flare
                                                         #classification match for any of single row observation in the NASA table. If they match, the
                                                         #rank is returned and if they don't 'None' is returned
                                                         #####
                                                         rank_tracker = []
                                                         def rank_finder(row_count):
                                                                              for i,row in newsolar.iterrows():
                                                                                                    \textbf{if} \ (\texttt{newnasa.iloc}[\texttt{row\_count}, 5][-4:] == \texttt{row}[\texttt{'region'}]) \ \ \textbf{and} \ (\texttt{isFloat}(\texttt{newnasa.iloc}[\texttt{row\_count}, 6][1:]) == \texttt{row}[\texttt{'x\_class'}]): \\ \textbf{(inewnasa.iloc}[\texttt{row\_count}, 6][1:]) == \texttt{row}[\texttt{row\_count}, 6][1:]) == \texttt{row}[\texttt{row\_c
                                                                                                                         rank_tracker.append(int(row['rank']))
                                                                                                                         return row['rank']
                                                         #Applying the function to all the rows in the NASA table
```

```
for i, row in newnasa.iterrows():
    rank = rank_finder(i)

newnasa.iloc[i, 13]= rank

#pd.set_option('display.max_rows', newnasa.shape[0]+1)
newnasa
```

Out[17]:	start_datetime	end_datetime	start_frequency	end_frequency	flare_location	flare_region	flare_classification	cme_datetime	cme_angle	cme_width	cme_speed	is_halo	width_lower_bound	SWL_rank
0	1997-04-01 14:00:00	1997-04-01 14:15:00	8000	4000	S25E16	8026	M1.3	1997-04-01 15:18:00	74	79	312	False	False	None
1	1997-04-07 14:30:00	1997-04-07 17:30:00	11000	1000	S28E19	8027	C6.8	1997-04-07 14:27:00	NA	360	878	True	False	None
2	1997-05-12 05:15:00	1997-05-14 16:00:00	12000	80	N21W08	8038	C1.3	1997-05-12 05:30:00	NA	360	464	True	False	None
3	1997-05-21 20:20:00	1997-05-21 22:00:00	5000	500	N05W12	8040	M1.3	1997-05-21 21:00:00	263	165	296	False	False	None
4	1997-09-23 21:53:00	1997-09-23 22:16:00	6000	2000	S29E25	8088	C1.4	1997-09-23 22:02:00	133	155	712	False	False	None
513	2017-09-04 20:27:00	2017-09-05 04:54:00	14000	210	S10W12	12673	M5.5	2017-09-04 20:12:00	NA	360	1418	True	False	None
514	2017-09-06 12:05:00	2017-09-07 08:00:00	16000	70	S08W33	12673	X9.3	2017-09-06 12:24:00	NA	360	1571	True	False	8
515	2017-09-10 16:02:00	2017-09-11 06:50:00	16000	150	S09W92	NaN	X8.3	2017-09-10 16:00:00	NA	360	3163	True	False	None
516	2017-09-12 07:38:00	2017-09-12 07:43:00	16000	13000	N08E48	12680	C3.0	2017-09-12 08:03:00	124	96	252	False	False	None
517	2017-09-17 11:45:00	2017-09-17 12:35:00	16000	900	S08E170	NaN	NaN	2017-09-17 12:00:00	NA	360	1385	True	False	None

518 rows × 14 columns

#### Analysis

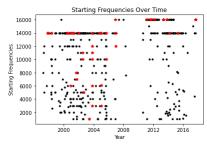
These plots show how the starting frequencies, ending frequencies and cme widths for the top 50 flares compare to the rest of the NASA dataset. The top 50 flares are in red while the rest are in black

```
import matplotlib.pyplot as plt
import matplotlib inline

In [19]:
#By start_frequency
new nasa['start_frequency'].replace('NaN', np.nan, inplace=True)
top_50['start_frequency'] = top_50['start_frequency'].astype(float) # to get an ordered y axis
new_nasa['start_frequency'] = new_nasa['start_frequency'].astype(float)

plt.plot(new_nasa['start_datetime'], new_nasa['start_frequency'], '.', color='black')
plt.plot(top_50['start_datetime'], top_50['start_frequency'], '*', color='red') # top 50
plt.title('Starting Frequencies Over Time')
plt.xlabel('Year')
plt.ylabel('Starting Frequencies')
```

Out[19]: Text(0, 0.5, 'Starting Frequencies')



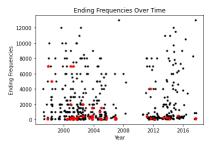
The top 50 flares seem to fit in to the rest of the NASA dataset. Most of them seem to have high starting frequencies but so do a lot of other flares not in the top 50.

```
#Plotting Top 50 Flares

#By end_frequency
new_nasa['end_frequency'].replace('NaN', np.nan, inplace=True)
top_50['end_frequency'] = top_50['end_frequency'].astype(float) # to get an ordered y axis
new_nasa['end_frequency'] = new_nasa['end_frequency'].astype(float)

plt.plot(new_nasa['start_datetime'], new_nasa['end_frequency'], '.', color='black')
plt.plot(top_50['start_datetime'], top_50['end_frequency'], '*', color='red') #top 50
plt.title('Ending Frequencies Over Time')
plt.ylabel('Year')
plt.ylabel('Ending Frequencies')
```

Out[20]: Text(0, 0.5, 'Ending Frequencies')



There is little distinction between the top 50 flares and those not in the top 50. You would not be able to tell the difference if they were all the same color

```
#Plotting Top 50 Flares

#By cme_width

new_nasa('cme_width').replace('NaN', np.nan, inplace=True)

top_50('cme_width') = top_50('cme_width').astype(float) # to get an ordered y axis

new_nasa('cme_width') = new_nasa('cme_width').astype(float)

plt.plot(new_nasa('start_datetime'), new_nasa('cme_width'), '.', color='black')

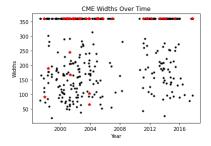
plt.plot(top_50('start_datetime'), new_nasa('cme_width'), '*', color='red') #top 50

plt.xlabel('Year')

plt.xlabel('Year')

plt.ylabel('Widths')
```

Out[21]: Text(0, 0.5, 'Widths')



The vast majority of the top 50 flares seem to have large widths, but so do a lot of other flares not in the top 50.

There seems to be a positive correlation between the cme widths and the starting frequencies as their plots over time look very similar.