



This SWPC synoptic map shows the position of solar regions referred to in the data below.

:Product: **Solar Radio Data** 30day_rad.txt

:Issued: 2152 UTC 13 Nov 2015

Prepared by the U.S. Dept. of Commerce, NOAA, Space Weather Prediction Center
Please send comments and suggestions to SWPC.Webmaster@noaa.gov
Units: 10⁻²² W/m²/Hz
Missing Data: -1

Daily local noon solar radio flux values - Updated once an hour
#

Freq	Learmonth	San Vito	Sag Hill	Penticton	Penticton	Palehua	Penticton
MHZ	0500 UTC	1200 UTC	1700 UTC	1700 UTC	2000 UTC	2300 UTC	2300 UTC

2015 Oct 28

245	39	39	29	-1	-1	-1	-1
410	54	48	46	-1	-1	-1	-1
610	75	-1	66	-1	-1	-1	-1
1415	99	83	76	-1	-1	-1	-1
2695	111	116	106	-1	-1	-1	-1
2800	-1	-1	-1	113	112	-1	112
4995	147	157	143	-1	-1	-1	-1
8800	292	268	277	-1	-1	-1	-1
15400	517	551	535	-1	-1	-1	-1

2015 Oct 29

245	-1	44	43	-1	-1	20	-1
410	-1	64	45	-1	-1	40	-1
610	-1	-1	62	-1	-1	60	-1
1415	-1	79	75	-1	-1	74	-1
2695	-1	113	106	-1	-1	114	-1
2800	-1	-1	-1	114	113	-1	112
4995	-1	153	150	-1	-1	155	-1
8800	-1	250	278	-1	-1	278	-1
15400	-1	538	546	-1	-1	593	-1

2015 Oct 30

245	38	25	-1	-1	-1	16	-1
410	50	35	-1	-1	-1	27	-1
610	72	-1	-1	-1	-1	41	-1
1415	95	77	79	-1	-1	77	-1
2695	118	119	123	-1	-1	114	-1
2800	-1	-1	-1	133	121	-1	117
4995	150	162	168	-1	-1	164	-1
8800	330	273	301	-1	-1	288	-1
15400	526	549	562	-1	-1	566	-1

:Product: **radio_bursts.txt**
:Created: 2015 Nov 13 2140 UT
Prepared by the U.S. Dept. of Commerce, NOAA, Space Weather Prediction Center
Send comments and questions to SWPC.Webmaster@noaa.gov

Updated every 30 minutes. See <http://www.swpc.noaa.gov/ftpmenu/lists/radio.html>
#

Radio Bursts in Last 45 days
10cm (2695MHz) Bursts >=100% above background,
245MHz Bursts > 100 flux units,
245MHz Radio Noise Storms,
Type II, and Type IV Sweep Frequency Bursts.

#	Date	Start	Max	End	Obs	Q	Type	Freq	Peak Flux or Sweep	Solar Wind Speed	Reg#
#-----											
	2015 10 30	0108	0108	0108	LEA	U	RBR	245	200		
	2015 10 30	0304	0304	0304	LEA	U	RBR	245	1700		
	2015 10 30	1619	1620	1620	SAG	G	RBR	245	290		
	2015 10 30	1626	1756	1805	SAG	G	RNS	245	230		
	2015 10 30	1756	1756	1756	SAG	G	RBR	245	1300		
	2015 10 29	0110	0110	0110	LEA	G	RBR	245	190		
	2015 10 29	0218	0220	0220	LEA	G	RBR	245	1400		2443
	2015 10 29	0219	////	0232	CUL	C	RSP	035-400	II/1		
	2015 10 29	0219	////	0230	PAL	C	RSP	025-180	II/1	972	
	2015 10 29	0230	////	0247	LEA	C	RSP	030-135	IV/1		2437
	2015 10 29	0238	////	0246	CUL	C	RSP	030-057	II/1		2437
	2015 10 29	0341	////	1016	LEA	C	RSP	126-180	IV/1		2443
	2015 10 29	0800	0801	0801	LEA	G	RBR	245	260		
	2015 10 29	1839	1839	1839	SAG	G	RBR	245	230		
	2015 10 29	2213	2213	2213	PAL	G	RBR	245	140		
	2015 10 28	0050	0050	0050	LEA	U	RBR	245	240		
	2015 10 28	0118	0118	0118	LEA	U	RBR	245	120		
	2015 10 28	0330	0330	0330	LEA	U	RBR	245	150		
	2015 10 28	0400	0400	0400	LEA	U	RBR	245	280		
	2015 10 28	0623	0624	0624	LEA	U	RBR	245	510		
	2015 10 28	0628	0628	0628	LEA	U	RBR	245	120		
	2015 10 28	0652	0710	0801	LEA	G	RNS	245	700		
	2015 10 28	0933	0934	0934	SVI	U	RBR	245	130		2436
	2015 10 28	1257	1257	1257	SVI	G	RBR	245	230		

:Product: **20151027events.txt**
 :Created: 2015 Oct 30 0357 UT
 :Date: **2015 10 27**

Prepared by the U.S. Dept. of Commerce, NOAA, Space Weather Prediction Center
 # Please send comments and suggestions to SWPC.Webmaster@noaa.gov

 # Missing data: ////
 # Updated every 5 minutes.

Edited Events for 2015 Oct 27

#Event	Begin	Max	End	Obs	Q	Type	Loc/Frq	Particulars	Reg#
9590	0153	////	0155	LEA	C	RSP	025-180	V/2	
9590	0154	0154	0154	PAL	G	RBR	245	470	
9590 +	0154	////	0156	CUL	C	RSP	018-270	III/2	
9600	0154	0154	0155	LEA	U	RBR	245	1400	
9610	0255	////	0255	LEA	C	RSP	031-149	III/1	
9820	0256	////	0256	CUL	C	RSP	035-057	III/1	
9620	0349	////	0349	LEA	C	RSP	025-180	III/1	
9830	0350	////	0352	CUL	C	RSP	020-400	III/1	
9630	0350	0350	0350	LEA	U	RBR	245	880	
9640 +	0421	////	0422	LEA	C	RSP	039-089	III/1	
9650	0505	0514	0520	G15	5	XRA	1-8A	C1.0	9.2E-04 2436
9660	0743	0743	0743	SVI	G	RBR	245	170	
9660	0743	////	0743	SVI	C	RSP	077-180	III/1	
9660	0743	////	0929	LEA	C	RSP	028-180	VI/1	
9670	0744	0744	0744	LEA	G	RBR	245	310	
9680 +	0748	////	0748	CUL	C	RSP	020-050	III/2	
9690	0812	0812	0813	SVI	G	RBR	245	220	
9690	0812	////	0815	SVI	C	RSP	057-180	III/1	
9700	0813	0813	0813	LEA	G	RBR	245	280	
9710 +	0836	////	0839	SVI	C	RSP	025-180	III/2	
9710 +	0837	0837	0837	SVI	G	RBR	245	4300	
9720 +	0842	////	0845	SVI	C	RSP	025-180	III/2	
9720 +	0844	0844	0844	SVI	G	RBR	245	180	
9730	0927	////	0936	SVI	C	RSP	025-138	III/1	
9740	1014	////	1156	SVI	C	RSP	025-180	VI/3	
9740	1106	1208	1308	G15	5	XRA	1-8A	C1.5	9.6E-03

9750	1151	////	1156	SAG	C	RSP	025-180	V/2		
9770	1308	1429	1515	G15	5	XRA	1-8A	C3.2	1.8E-02	
9760	1522	////	1613	SAG	C	RSP	025-180	VI/1		2435
9760	1539	1550	1602	HOL	3	FLA	S14W69	1F	DSD	2435
9760	1540	1549	1552	G15	5	XRA	1-8A	C2.3	1.6E-03	2435
9760 +	1548	////	1549	SAG	C	RSP	025-180	III/2		2435
9760 +	1554	1554	1554	SAG	G	RBR	245	870		2435
9780	1832	1854	1903	G15	5	XRA	1-8A	C1.7	2.9E-03	
9790	2010	2019	2028	G15	5	XRA	1-8A	C1.4	1.4E-03	
9810	2050	////	2250	PAL	U	RSP	058-180	CTM/1		
9810	2059	////	2252	PAL	C	RSP	025-180	VI/1		
9810	2139	////	2140	CUL	C	RSP	018-057	III/3		
9800	2159	////	2205	HOL	3	EPL	////	0.17		

:Product: 20151028events.txt
 :Created: 2015 Oct 31 0357 UT
 :Date: 2015 10 28

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 # Missing data: ////
 # Updated every 5 minutes.

Edited Events for 2015 Oct 28

#Event	Begin	Max	End	Obs	Q	Type	Loc/Frq	Particulars	Reg#	
9930	0000	////	0944	LEA	C	RSP	071-161	CTM/1		
9840	0009	////	0348	PAL	C	RSP	078-180	CTM/1		
9840 +	0050	0050	0050	LEA	U	RBR	245	240		
9850	0118	0118	0118	LEA	U	RBR	245	120		
9850	0118	////	0119	LEA	C	RSP	028-180	III/1		
120	0119	////	0120	CUL	C	RSP	018-057	III/1		
130	0204	////	0205	CUL	C	RSP	020-057	III/1		
9860	0204	////	0205	LEA	C	RSP	029-180	III/1		
9870 +	0329	////	0330	CUL	C	RSP	018-057	III/2		
9880	0330	0330	0330	LEA	U	RBR	245	150		
9940	0336	////	0941	LEA	C	RSP	027-127	VI/1		
9940	0352	////	0352	CUL	C	RSP	020-057	III/1		
9890	0400	0400	0400	LEA	U	RBR	245	280		
140	0440	////	0440	CUL	C	RSP	018-057	III/1		
9950	0549	////	0647	SVI	C	RSP	025-180	VI/1		
9950 +	0550	////	0550	CUL	C	RSP	018-057	III/3		
9920	0553	0606	0623	G15	5	XRA	1-8A	C1.2	1.9E-03	2437
9920 +	0622	////	0626	CUL	C	RSP	018-300	III/3		
9900 +	0622	////	0625	LEA	C	RSP	025-180	III/2		
9900 +	0623	0624	0624	LEA	U	RBR	245	510		
9910	0628	0628	0628	LEA	U	RBR	245	120		
40 +	0652	0710	0801	LEA	G	RNS	245	700		
9960 +	0705	0708	0711	G15	5	XRA	1-8A	C1.3	2.9E-04	
9970	0716	////	0752	SVI	C	RSP	103-169	CTM/1		2436
9970	0752	0754	0801	SVI	3	FLA	N10W60	SF		2436
9980 +	0833	0839	0847	G15	5	XRA	1-8A	C1.6	1.1E-03	2437

9980	0835	////	0837	SVI	C	RSP	104-135	III/1		2437
9980	B0838	U0838	A0904	SVI	3	FLA	S23W52	1F	ERU	2437
50	B0838	U0838	A0847	SVI	3	FLA	N10W60	SF		2436
9990	0849	0849	0855	LEA	2	FLA	S20W53	SF	ERU	2437
10	0856	0857	0859	LEA	2	FLA	S22W53	SF		2437
20	0901	////	0916	SVI	C	RSP	102-170	VI/1		
30 +	0931	0937	0942	G15	5	XRA	1-8A	C1.9	8.6E-04	2436
30 +	0932	////	0936	SVI	C	RSP	025-180	V/2		2436
30	0933	0935	0938	LEA	2	FLA	N12W61	SF		2436
30 +	0933	0934	0934	SVI	U	RBR	245	130		2436
70	0950	1023	1055	G15	5	XRA	1-8A	C1.8	6.2E-03	2436
160	A0951	////	A2345	LEA	3	DSF	N38E50	18		
60	1057	////	1059	SVI	C	RSP	075-180	III/1		
80	1148	1151	1154	SVI	3	FLA	S20W53	SF		2437
90 +	1257	1257	1257	SVI	G	RBR	245	230		
390	A1425	////	A0833	SVI	2	DSF	N42E69	16		
100	1704	1707	1710	G15	5	XRA	1-8A	B7.8	2.9E-04	
110	1915	////	1915	SAG	C	RSP	025-050	III/1		

:Product: 20151029events.txt
 :Created: 2015 Nov 01 0357 UT
 :Date: 2015 10 29

Prepared by the U.S. Dept. of Commerce, NOAA, Space Weather Prediction Center
 # Please send comments and suggestions to SWPC.Webmaster@noaa.gov

 # Missing data: ////
 # Updated every 5 minutes.

Edited Events for 2015 Oct 29

#Event	Begin	Max	End	Obs	Q	Type	Loc/Frq	Particulars	Reg#
150 +	0017	0021	0027	G15	5	XRA	1-8A	C1.5 6.1E-04	2443
170	0035	0036	0038	LEA	3	FLA	N08E79	SF	2443
270 +	0103	0125	0140	G15	5	XRA	1-8A	C1.1 2.3E-03	2440
180 +	0110	0110	0110	LEA	G	RBR	245	190	
270	0117	////	0118	CUL	C	RSP	030-057	III/1	
190	0117	////	0117	LEA	C	RSP	028-083	III/1	
200	0206	////	0206	LEA	C	RSP	035-124	III/1	
210	0212	0220	0225	LEA	2	FLA	N06E83	SF	2443
210	0212	0215	0217	G15	5	XRA	1-8A	C1.0 3.3E-04	2443
280	0218	0219	0221	G15	5	XRA	1-8A	C1.0 2.3E-04	
210 +	0218	0218	0219	LEA	G	RBR	410	500	2443
<i>210 +</i>	<i>0218</i>	<i>0220</i>	<i>0220</i>	<i>LEA</i>	<i>G</i>	<i>RBR</i>	<i>245</i>	<i>1400</i>	<i>2443</i>
280 +	0219	////	0232	CUL	C	RSP	035-400	II/1	
210 +	0219	////	0230	PAL	C	RSP	025-180	II/1 972	
280	0220	////	0221	CUL	C	RSP	018-057	III/1	
480	0227	////	0231	CUL	C	RSP	018-075	III/3	
<i>220</i>	<i>0230</i>	<i>////</i>	<i>0247</i>	<i>LEA</i>	<i>C</i>	<i>RSP</i>	<i>030-135</i>	<i>IV/1</i>	<i>2437</i>
220	0238	0240	0247	LEA	3	FLA	S22W63	SF	2437
220 +	0238	////	0246	CUL	C	RSP	030-057	II/1	2437
220	0240	////	0241	PAL	C	RSP	043-064	III/1	2437
230	0325	0335	0342	LEA	3	FLA	N06E83	SF	2443
<i>230</i>	<i>0341</i>	<i>////</i>	<i>1016</i>	<i>LEA</i>	<i>C</i>	<i>RSP</i>	<i>126-180</i>	<i>IV/1</i>	<i>2443</i>
240	0351	0353	0355	LEA	3	FLA	N07E82	SF	2443
250	0415	0419	0421	LEA	3	FLA	N07E82	SF	2443
260	0425	0425	0425	LEA	3	FLA	N07E82	SF	2443

290	0432	0439	0446	G15	5	XRA	1-8A	C1.0	8.6E-04	2443
300	0710	0710	0716	LEA	3	FLA	N00E00	SF	DSD	2443
300 +	0715	0718	0721	G15	5	XRA	1-8A	C1.1	2.5E-04	2443
310	0735	0735	0736	LEA	3	FLA	N00E00	SF	DSD	2443
320	0740	0742	0743	LEA	3	FLA	N07E84	SF	DSD	2443
490	0749	////	0749	CUL	C	RSP	020-057	III/1		
330	0800	0801	0801	LEA	G	RBR	245	260		
340 +	0804	0807	0809	G15	5	XRA	1-8A	B9.3	1.6E-04	
350	0811	0812	0815	LEA	3	FLA	N07E84	SF	DSD	2443
360	0818	0821	0831	LEA	2	FLA	N07E84	SF	DSD	2443
370	B0854	U0854	A0914	SVI	3	FLA	S20W65	SF		2437
380 +	1031	1038	1044	G15	5	XRA	1-8A	C1.3	7.8E-04	2443
400 +	1226	1229	1231	G15	5	XRA	1-8A	B9.5	1.6E-04	
410 +	1402	1406	1414	G15	5	XRA	1-8A	C1.1	6.2E-04	2443
420 +	1501	1506	1511	G15	5	XRA	1-8A	C1.5	6.7E-04	2443
430 +	1652	1656	1659	G15	5	XRA	1-8A	C1.4	4.1E-04	2443
440 +	1749	1752	1755	G15	5	XRA	1-8A	C1.0	2.3E-04	2443
450	1839	1839	1839	SAG	G	RBR	245	230		
500	2022	////	2022	CUL	C	RSP	020-057	III/1		
510	2158	////	2359	LEA	C	RSP	100-180	CTM/1		
460 +	2213	////	2213	PAL	C	RSP	025-135	III/1		
460	2213	2213	2213	PAL	G	RBR	245	140		
510	2214	////	2214	CUL	C	RSP	018-075	III/2		
470 +	2308	2315	2323	G15	5	XRA	1-8A	C1.6	1.1E-03	2443

:Product: **Daily Particle Data** DPD.txt

:Issued: 0223 UT 13 Nov 2015

Prepared by the U.S. Dept. of Commerce, NOAA, Space Weather Prediction Center
Please send comments and suggestions to SWPC.Webmaster@noaa.gov

Last 30 Days Daily Particle Data

#	GOES-13 Proton Fluence			GOES-13 Electron Fluence		Neutron	
#	--- Protons/cm2-day-sr ---			-- Electrons/cm2-day-sr --		Monitor	
#	Date	>1 MeV	>10 MeV	>100 MeV	>0.8 MeV	>2 MeV	% of bkgd
#	-----						
2015	10 14	1.2e+06	1.1e+04	2.6e+03	3.6e+09	2.7e+08	-999.99
2015	10 15	3.6e+05	1.1e+04	2.6e+03	3.9e+09	2.7e+08	-999.99
2015	10 16	1.4e+05	1.1e+04	2.7e+03	1.4e+09	7.9e+07	-999.99
2015	10 17	7.1e+05	1.1e+04	2.9e+03	1.8e+09	1.8e+08	-999.99
2015	10 18	3.0e+05	1.2e+04	2.9e+03	7.3e+08	1.7e+07	-999.99
2015	10 19	2.1e+05	1.1e+04	2.8e+03	1.6e+09	1.4e+07	-999.99
2015	10 20	3.2e+05	1.2e+04	2.7e+03	1.5e+09	3.4e+07	-999.99
2015	10 21	3.9e+05	1.1e+04	2.7e+03	7.1e+08	1.3e+07	-999.99
2015	10 22	1.6e+06	2.0e+04	2.9e+03	6.0e+08	1.4e+07	-999.99
2015	10 23	1.2e+07	2.1e+04	2.8e+03	6.4e+08	1.1e+07	-999.99
2015	10 24	5.2e+06	1.2e+04	2.7e+03	7.4e+08	1.1e+07	-999.99
2015	10 25	5.4e+05	1.2e+04	2.7e+03	3.0e+08	2.7e+06	-999.99
2015	10 26	1.7e+05	1.1e+04	2.5e+03	2.6e+08	2.1e+06	-999.99
2015	10 27	1.7e+05	1.2e+04	2.7e+03	3.5e+08	8.2e+06	-999.99
2015	10 28	4.1e+05	1.1e+04	2.8e+03	4.8e+08	1.4e+07	-999.99
2015	10 29	2.9e+06	7.9e+05	4.7e+04	3.0e+08	5.6e+06	-999.99
2015	10 30	1.6e+06	1.5e+05	5.0e+03	1.0e+08	1.4e+06	-999.99
2015	10 31	3.5e+05	3.0e+04	2.7e+03	6.3e+07	5.6e+05	-999.99
2015	11 01	3.5e+05	1.4e+04	2.6e+03	1.3e+08	6.5e+05	-999.99
2015	11 02	2.3e+05	1.2e+04	2.8e+03	2.6e+08	3.3e+05	-999.99
2015	11 03	6.9e+05	1.2e+04	2.7e+03	2.5e+08	7.7e+05	-999.99
2015	11 04	5.8e+06	1.3e+04	2.4e+03	2.1e+09	7.6e+07	-999.99
2015	11 05	1.4e+06	1.2e+04	2.8e+03	4.3e+09	1.8e+08	-999.99
2015	11 06	1.3e+06	1.2e+04	2.9e+03	6.6e+09	4.3e+08	-999.99
2015	11 07	4.4e+06	1.1e+04	2.5e+03	2.6e+09	1.3e+08	-999.99
2015	11 08	3.4e+05	1.2e+04	2.9e+03	2.9e+09	1.3e+08	-999.99
2015	11 09	1.5e+06	2.0e+04	3.1e+03	3.2e+09	2.8e+08	-999.99
2015	11 10	8.3e+06	8.5e+04	2.9e+03	5.3e+09	6.0e+08	-999.99
2015	11 11	3.1e+06	1.3e+04	2.6e+03	1.1e+10	2.0e+09	-999.99
2015	11 12	9.1e+05	1.1e+04	2.6e+03	1.1e+10	1.8e+09	-999.99

:Product: **Daily Geomagnetic Data** DGD.txt

:Issued: 2130 UT 13 Nov 2015

Prepared by the U.S. Dept. of Commerce, NOAA, Space Weather Prediction Center
Please send comment and suggestions to SWPC.Webmaster@noaa.gov

Last 30 Days Daily Geomagnetic Data

#	Date	Middle Latitude - Fredericksburg -										High Latitude ---- College ----										Estimated --- Planetary ---										
		A	K-indices										A	K-indices										A	K-indices							
2015 10 15		9	3	2	3	2	2	2	2	2	2	12	2	2	4	4	3	2	1	1	10	3	3	3	2	2	1	2	3			
2015 10 16		8	2	3	3	2	2	2	1	1	8	2	3	3	1	2	3	0	1	8	2	3	3	1	2	1	1	1	1			
2015 10 17		9	2	2	2	2	3	2	3	2	17	1	2	3	4	5	4	2	1	11	2	3	2	2	3	2	4	2				
2015 10 18		15	3	3	4	4	3	2	2	2	42	1	4	5	7	5	5	3	2	22	3	3	4	5	4	3	3	2				
2015 10 19		3	1	2	1	1	1	1	1	0	1	0	0	0	0	2	1	0	0	5	1	2	1	1	1	0	1	1				
2015 10 20		8	2	3	2	1	2	2	2	2	20	1	2	3	5	5	4	2	2	9	2	3	2	2	3	2	3	2				
2015 10 21		12	1	2	1	3	4	2	2	4	22	2	1	3	5	6	2	2	2	12	1	3	1	4	4	2	2	2				
2015 10 22		4	1	0	2	0	1	2	2	2	5	2	0	3	0	1	2	1	1	6	2	1	2	1	1	2	3	2				
2015 10 23		5	2	0	1	1	2	1	2	2	7	2	1	1	2	3	3	1	1	7	3	1	1	1	2	2	2	3				
2015 10 24		10	2	3	3	1	2	1	3	3	7	2	1	4	0	0	0	3	2	11	3	3	3	1	1	1	3	3				
2015 10 25		7	2	1	3	1	3	2	1	1	6	2	1	3	3	2	0	0	0	8	2	2	3	2	3	2	1	1				
2015 10 26		2	1	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	3	1	0	1	1	0	0	0	0				
2015 10 27		3	0	1	0	1	2	1	1	1	4	0	0	0	2	3	1	0	1	4	0	1	1	1	2	0	1	2				
2015 10 28		1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1	1	1	0	0	1	0				
2015 10 29		4	0	1	1	1	1	2	1	2	5	0	0	2	3	3	1	0	0	5	1	1	1	2	1	1	1	2				
2015 10 30		6	2	0	0	1	3	3	1	2	17	1	1	0	3	5	5	3	1	9	3	1	0	2	3	3	2	3				
2015 10 31		6	0	1	1	1	2	3	2	2	6	0	0	0	1	4	2	1	2	6	1	1	1	1	2	2	2	3				
2015 11 01		9	1	3	2	3	3	1	2	1	20	1	3	4	5	4	4	2	1	11	1	3	3	3	3	2	2	1				
2015 11 02		5	1	0	1	1	3	2	1	2	17	1	0	0	0	6	5	0	1	7	1	1	1	1	3	3	1	2				
2015 11 03		23	3	3	4	5	4	3	4	2	32	2	3	4	6	5	4	5	2	32	3	4	5	5	4	4	5	4				
2015 11 04		31	5	4	5	5	5	3	2	2	55	3	4	6	7	7	4	2	1	33	5	5	5	5	5	3	3	2				
2015 11 05		11	2	1	3	3	3	3	2	2	29	2	1	5	6	5	4	2	3	16	3	2	4	3	3	4	3	3				
2015 11 06		11	3	1	2	2	2	2	3	4	13	3	1	2	2	3	3	3	4	15	4	2	2	2	2	2	4	4				
2015 11 07		29	4	5	5	5	4	3	3	2	62	4	5	7	7	6	4	4	1	43	5	6	6	5	4	3	4	2				
2015 11 08		11	1	1	0	2	4	2	4	3	36	2	1	0	5	7	5	4	3	14	2	1	1	2	3	3	4	4				
2015 11 09		22	3	3	5	4	3	3	3	4	62	3	4	6	7	5	7	3	4	26	4	4	4	4	3	3	4	5				
2015 11 10		32	4	3	4	5	6	4	3	3	61	4	4	5	7	7	5	4	4	38	4	4	5	5	6	4	4	4				
2015 11 11		17	4	3	3	3	3	4	3	1	33	3	2	6	5	5	5	3	1	23	5	3	4	3	3	5	3	2				
2015 11 12		4	1	0	1	2	2	2	1	1	8	0	0	2	5	1	1	0	0	5	2	1	2	2	1	1	1	1				
2015 11 13		-1	1	2	1	2	4	3	3	-1	-1	1	0	0	5	5	5	4	-1	11	2	2	1	2	3	4	3	-1				

2015 10 29 0219 //// 0230 PAL C RSP 025 to 180 Type II/1 Region 2443

2015 10 29 0230 //// 0247 LEA C RSP 030 to 135 MHz Type IV/1 Region 2437

Space Weather Message Code: ALTTP4

Serial Number: 517

Issue Time: 2015 Oct 29 0241 UTC

ALERT: Type IV Radio Emission

Begin Time: 2015 Oct 29 0230 UTC

www.swpc.noaa.gov/noaa-scales-explanation

Description: Type IV emissions occur in association with major eruptions on the sun and are typically associated with strong coronal mass ejections and solar radiation storms.

Space Weather Message Code: ALTTP2

Serial Number: 1028

Issue Time: 2015 Oct 29 0248 UTC

ALERT: Type II Radio Emission

Begin Time: 2015 Oct 29 0219 UTC

Estimated Velocity: 972 km/s

Space Weather Message Code: WARPC0

Serial Number: 80

Issue Time: 2015 Oct 29 0430 UTC

WARNING: Proton 100MeV Integral Flux above 1pfu expected

Valid From: 2015 Oct 29 0445 UTC

Valid To: 2015 Oct 29 1400 UTC

Warning Condition: Onset

NOAA Space Weather Scale descriptions can be found at

www.swpc.noaa.gov/noaa-scales-explanation

Potential Impacts: An enhancement in the energetic portion of the solar radiation spectrum may indicate increased biological risk to astronauts or passengers and crew in high latitude, high altitude flights.

Additionally, energetic particles may represent an increased risk to all satellite systems susceptible to single event effects. This information should be used in conjunction with the current Solar Radiation Storm conditions when assessing overall impact.