

Space Weather Summary

As uneventful month as they come, in solar terms: real bottom-of-cycle stuff. The sun was spotless from the 7th onwards and the solar flux averaged 67.6, with a 'high' of 68.8 on the 11th and a 'low' of 66.1 on the 24th. The X-ray flux was at minimum level throughout. Solar wind speeds ranged between 690km/sec on the 26th and 273km/sec on the 12th. The Ap averaged a quiet 7, with the highest reported daily figure of 20 on the 25th and the lowest only 1 on the 11th and 17th. The highest 3-hour figure was 39 for 1500-1800 on the 25th. All these figures are provisional

50MHz in the UK

DX Propagation

There were no F2 or tep reports.

Sporadic-E

Sporadic-E is sometimes discussed as essentially a summer phenomenon with a possible post-Christmas peak. Yet it can occur up to, and even beyond 50MHz, at any time of the year and at relatively northern latitudes. Several contacts were indeed reported at 70MHz (as noted by SV1DH) in the course of the month. However, not many Octobers produce such a rich harvest. This was actually more substantial than the tabulation below suggests because it features a single figure for any three-hour period which at times represents a substantial string of reports.

At one time or another there were openings from the UK to most of continental Europe within single-hop range plus several double hop contacts with UT, 5B, SV and 4X. Generally southerly bearings were preferred, particularly CN, CT, EA and I, although the higher latitudes (ES, LA, OH, SM) featured from time to time. SP was the most notable absentee (though worked by ms), while DL was barely represented, although not all of Germany lies at a range requiring a higher MUF. LX, ON and PA were not worked, presumably because they were too close in. The solitary F sporadic-E contact with the UK was with a station was well down towards the Spanish border. The most notable report was of VE8BY, heard by MM0AMW, who not only is advantageously located to catch any openings in that direction – but is also an keen-eared operator who seems always to be on the spot for them. Not everyone was so fortunate: Eric, G2ADR's 'log' – though he disdains the word because the pickings were so slim – was confined to two beacon reports. As it happens, one of those reports was not picked up by anyone else. Nothing daunted, he goes on to say, 'I refuse to relinquish my persistent watch – only a matter of time before a big scoop comes along', though the adding of a '(?)' suggests a trace of uncertainty. Would that we had more operators as tenacious as Eric.

	CN				CT										DL		EA														
	13	23	26	29	13	14	16	18	19	20	21	23	24	26	27	28	29	30	31	27	30	5	13	14	21	23	24	26	27	28	29
6										3											3										
9			7			9			1			5	9			9	9	7		9	5			9	5	9	9		9	9	
12		8	5	7		7	2	7			9	9	7	9	9	9	9			9					5	9	9			9	
15	5			3		5											2														9
18	6					5																									
21																							4								

<u>ES</u> 18	<u>F</u> 28	<u>HA</u> 18 19 24 26	<u>I,IS,IT</u> 19 20 21 24 26 27 28 29	<u>LA</u> 19 21	<u>LZ</u> 19 27	<u>OE</u> 21 27	<u>OH</u> 18 19	<u>OK</u> 27	<u>OY</u> 29
6			9 5 1		9 9	8		5	
9			9 9 7 9 9 9 5 9	5	9 5	5 9		7	
12	9	5	9		9		5	9	
15		9 9	9						
18									3
21				9			9		

<u>SM</u> 21	<u>S5,T9,YU,E7</u> 7 19 26 27 31	<u>TF</u> 13 26	<u>UT</u> 27	<u>VE8</u> 26	<u>YO</u> 19	<u>4X</u> 27	<u>5B</u> 26	<u>9H</u> 27
6 5								
9	9 9 5 7		9		9	7	9	5
12	9 9 4		9		5			
15					9			
18								
21		3 3		3				

While there was a few early openings (before 0900) and late ones (after 2100), as the table below shows a high proportion of reports came mid-to-late morning or early after noon. The table also shows how much of the propagation was concentrated in the last third of the month.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
UTC																															
00-03																															
03-06																															
06-09					+															+	+						+	+	+		
09-12							+						+				+	+	+	+		+	+		+	+	+	+	+	+	+
12-15													+		+		+	+		+		+	+		+	+	+	+		+	
15-18												+						+										+	+		
18-21												+																+			
21-24												+							+							+					

Tropospheric Propagation

Not much of a month for tropo. Most of the very modest number of reports received were for contacts from eastern England into Belgium and France. The exceptions were from G2KP/p in JO02 with LA4ANA, credited to a mix of tropo and ms, and reception of the Buxton beacon (JO93) by DH6JL (JO31) 539 at 0858, compared with a usual 419.

Aurora

In so quiet a month, geomagnetically, it is scarcely surprising that there were so few UK auroral reports. MM0AMW reported TF3SIX 53a into his IO75 location at 1826 on the 25th. He also reported the beacon at 539 on the 26th at 2206, followed by the VE8BY beacon at 539 at 2214, but Es looks the more likely mode in both instances.

EME

Another mode that produced few UK reports. For the record these were PE1BTX>G4IGO at 1858 on the 28th, -22dB, and MM0AMW>PE1BTX at 2000 on the 29th, -24dB

Meteor Scatter

During these years of low solar activity meteor scatter has become a major focus for 50MHz activity in Europe – less so in North America, where ms reports remain very occasional, probably because in most areas the amateur population is more dispersed than in western Europe. Previous commentaries in these Reports have underlined the importance of ms during periods when nothing much else is happening, particularly in the wake of the development of JT6M.

However, in a month like October there is an analytical problem: on days when other propagation modes are activity – as with the Es openings towards the end of the month – ms working virtually comes to a halt as operators return to more traditional modes. Accordingly, we cannot gauge the ‘true’ availability of ms during such periods – particularly since many reports indicate use of JT6M but give no suggested mode of propagation. A number of JT6M reports specifically suggest Es and one or two credit tropo, but in the great majority of cases ms was almost certainly the relevant agent. However, the compilation below should be seen as a best estimate of contacts made. The Orionids in part coincided with the spell of sporadic-E conditions, probably leading to that shower being under-exploited. A ‘?’ indicates tentative identification of ms.

Oct 1-3 no reports

Oct 4 2224 SM7

Oct 5 0646 F 0740 LA 0947 LA

Oct 12 0857 HA2

Oct 13 0746 I4 1026 EA3

Oct 14 1026 EA3 1049 I1

Oct 15 1027 DL

Oct 16 0850 EA7 0923 F 1259 CT 1823 DL 1904 LA 1950 PA

Oct 17 0900 CT

Oct 20 0733 SP9 0806 OE5 1227 SM7 1318 LA

Oct 21 0332 OZ7IGY 0629,0640 OE9 0759 I0 0817 EB1 0834 I5 0938 HA2 0944 I5 0947 OE51324 I0

Oct 22 0731 LZ1 1047 S5 1848 OZ 1919 OE5 1954 OE9 2047 OE1 2235 HA2

Oct 23 0844 HA2 1603 OE9

Oct 24-5 no reports

Oct 26 1124 OE9

Oct 27 no reports

Oct 28 1618 SP9 1917 OH8(?) 2021 OY(?)

Oct 29 0830 F 0919 F(F) 1038 ON

Oct 30 0943 OZ7IGY

Oct 31 no reports

Countries worked were: CT,DL,EA,F,HA,I,LA,LZ,OE,OH(?),ON,OY(?)OZ,PA,SM,SP,S5

50 MHz Outside the UK

Continental Europe, Africa and the Middle East

Auroral-related Propagation

Even at high latitudes there were few auroral reports

Oct 19 1927-9 LA7SIX(JP99)>OH3(KP10) JW9SIX>OH3(KP10) 20-2100
 LA7SIX,LA9SIX,48248.7video,JW9SIX>SM0(Ae) JW9SIX,LA7SIX,JW5SIX>SM7(JO77)(Ae?) 21-
 2200 LA7SIX>OZ(JO55)(Ae?) OY(IP62)>OH3(KP10)(jt)

Oct 25 1644 LA,OH,SM>DL(au) 17-1800 LA>SM2(55a) LA>OZ(55a) OH9>SK2(53a) SM6>OZ(55a)
 LA(JO59)>SK2(KP03) OZ7IGY>LA(519a,340) LA(KP03)>OZ(JO47) OY(IP62)>OZ(JO55)(55a)
 LA(JO59)>PA(JO22) DL>LA(55a) LA(JO48)>DL(JO31)(54a)(000) 1937 ES1>SM2
 OH9SIX>SK2(53a) 20-2100 TF3SIX>SK2(53a variable)

Oct 29 16-1700 JW7SIX>SK2(599) OH9SIX>SK2(53a) LA>SK2 JW5SIX>SK2(539) 18-1900
 JW9SIX>OH3(KP10) JW5SIX>OH3(KP10) 19-2000 JW9SIX>SM0(559) 20-2100 LA7SIX>OZ(599)
 OH9SIX>OZ(599) 21-2200 OY6BEC>OH3(KP10)(569)

Other Modes

For continental Europe the propagation mix was much as we have seen for the UK: for most of the month regular ms working, jt6m assisted, together with a small number of tropo reports. There was rather more sporadic-E in the earlier part of the month than the UK experienced and this became the dominant mode and stirred a big increase in activity from the 18th onwards. There was a small amount of double hop, but there were no reports of tep, not even from SV1DH - another who sticks to the band through thick and thin. Outside our brief here but Costas was also the man behind the SV1FOUR beacon that signaled 4m openings during the summer. Costas' report naturally has a somewhat different mix of countries from what the UK experienced, but dates and times are very similar.

Oct 1 1709 EA6>F(jt) 1949 LZ1>I1(jt) 20-2100 SM0>LA(jt)G>SM0(jt) 2115 DL>SM0(jt)

Oct 2 1258 GB3BAA>I2 1814 SP3>SP9(jt) JR6EXN>PE1BTX(eme)

Oct 3 0823 OZ7IGY>DL(tr) 1140 DL>I0(jt) 18-1900 OH8>LA(jt) HG1BVB>S5(tr) 1934 G>OZ

Oct 4 1943 OH8>SP9(jt)

Oct 5 0046 9U0A>>PE1BTX(eme) 0059 MM0AMW>PE1BTX(eme)08-0900 IK5ZUL>I0(tr)
 OZ7IGY>I0(ms) SV1SIXI0(ms) ON0SIX>I0(ms) EA6DX>I0(tr) I8EMG>I0(tr) I0ICR>I0(tr) F>I0(ms)
 HA3>I0(ms)

Oct 6 06-0700 F>EA6(ms) OZ>EA6(Es) 08-0900 GB3BUX,GB3BAA>DL(tr) GB3MCB>DL(ms/tr)
 LA>OZ(ms) DF0ANN(JN59)>DL(JO31)(tr) OZ7IGY(JO55)>DL(JO31)(tr) LA>PA 0955 LA>OZ(jt)
 11-1200 LA>OZ(jt) LA>PA(jt) 1503 SP9>PA(jt) 20-2100 OZ>PA(jt) LA>PA(jt) OZ>LA(jt) 21-2200
 OZ>PA(jt) GM>OZ(ht) F>OZ(jt)

Oct 7 08-0900 CS1RLA>EI F>ON 09-1000 ON>S5 S5>DL F>ON 10-1100 SR3FHB>EI GM>PA(jt)
 DL>PA SP2>EI GM>DL(Es) DL>OZ(tr) 1140 PA>SP3(ms) 1412 GW>PA(ms) 16-1700
 G>OE9(ms) 17-1800 PA>OE9(ms) G>PA(jt) 18-1900 G>EA1(ms) JW7SIX>OH6 21-2200
 JW5SIX,JW7SIX>SM2

Oct 8 1643 G>OE9(ms) 1723-46 PA>OE9(ms) G>PA(jt) 1840-3 G>EA1(ms) JW7SIX>OH6 2139-41
 JW5SIX,JW7SIX>SM2

Oct 9 0939 ON0SIX>PA(tr) 1836 DL>PA 19-2000 LA>9A(jt) PA>ON 20-2100 PA>DL

Oct 10 1033 OE5>DL(jt) 16-1700 K1SG>PA(eme) AfricanTV>CT 20-2100 PA>LA(jt) 21-2200
 JW5SIX,JW7SIX,JW9SIX>SM2

Oct 11 0859 LZ1>HA7(,s) 0902 HA2>HA7(ms) 1315 OZ|>HB(ms) 15-1600 SM7>PAS(ms)
CT1ART,CS1RLA>I2 17-1800 SM3>DL(iono) S5>9A SK2>SM3 OH8>SK2 OZ>DL LA>S5 S5>OZ
18-1900 OZ,SM3>PA OH7>SM2 SM3>S5 S5>9A OH8,OH6>SK2 LA>SM2 SP9>LA(jt) SM2>PA(jt)
19-2000 OE9>LA SM3>S5 OH6>SK2 OZ>S5 SM3>PA(jt) LA>HA2(ms) SM0>PA(jt) 20-2100
OH6(OZ) I2>LA(ms) OZ>9A(jt) I4>LA(jt) SK2>OZ(ms) (NAC contest)

Oct 12 08-0900 HA2>OZ(jt) G>HA2(ms) 1159 GW>LA(jt) 1307 I8EMG>CT(Es) 1956 DL>HA2 2014
SM7>HA2(jt) 2308 PA>LA(ms)

Oct 13 0649-53 HB>SP9(jt) SP9>HB(ms) 08-0900 DL>IS0(ms) EA6>OZ(ms) EA6>DL(jt) G>HA2(jt) 09-
1000 PA>HA2(jt) SM7>HA2(jt) 10-1100 F>DL(jt) PA>DL(jt) PA>HA2(jt) G>EA3(ms) HA2>DL(jt)
SP9>DL(jt) 15-1600 GB3MCB,GB3BUX,EI0SIX>CT(Es) 16-1700 LX0SIX,DL>CT(Es)
CN8MC,CS1RLA,CT1ART>EI 17-1800
S55ZMS,HB9SIX,IZ1EPM,IW3FZQ,IQ4AD,DF0ANN,EI>CT CT0SIX>HB CT>OE5 LX0SIX>DL(tr)
CT>I1(Es) HB>DL(tr) CS1RLA,CT0SIX>DL 20-2100 OH8>LA(jt) 21-2200 CT1ART>EA8 OH8>LA

Oct 14 06-0700 ON0SIX,LX0SIX>DL(tr) 0709 EA6>LA 08-0900 OH8>LA(jt) DL>OZ(jt) 09-1000
G>DL,PA,ON (contest) 10-1100 G,GU>F G>ON,PA I0JX/b>EA6 EA6>I0 G>I1 11-1200
EI0SIX(599),G>EA5 HA2>DL(jt) DL>EA1,EA6 ON>EA1 G>F,EA4,EA7 SM7>HA2(jt) EA7>PA
SM7>LA(jt) 12-1300 CS1RLA>9A 1438 SO5>PA 1639 LZ0SIX>DL

Oct 15 09-1000 I0JX>DL(Es) LX0SIX>DL(tr) GW>DL(jt) 11-1200 SM7>DL(jt) 15-1600 East AftV>CT
HBtv>CT ON0SIX>CT(Es) OZ>DL(tr?) 19-2000 OH8>LA(ms) JW5SIX,JW7SIX>SK2 2157
SK2>SP9(ms)

Oct. 16 0902 EA7>EA1(ms) 12-1300 IS0,IZ1EPM,I0JX>CT(Es) CS1RLA,CT0SIX>IS0(Es)
IQ1SP,IK5ZUL,EA3SIX(1033km)>CT(Es) 13-1400 CN8MC>I2(Es)
EA3RCC,IS0GRB,F5TND,GB3IOJ>CT(Es) 1823 GW>DL(ms) 19-2000 G>LA(s) SM7>I4(ms) 2007
G>PA 21-2200 F>EA1(ms) PA>EA1(ms)

Oct 17 12-1300 CS1RLA,CT0SIX>IS0(Es) I5MXX>EA5 I8E GM>CT(Es) 18-1900 GB3BUX>CT
CN8MC,CT1ART>EI(Es) 19-2000 OY>LA(ms) LA>PA(jt) JW5SIX,JW7SIX>SM2 21-2200 CT>9A

Oct 18 09-1000 GB3MCB>CT(Es) GB3BAA>T9 10-1100 LA7SIX,JW9SIX>OH5(Es) 12-1300 SM3>OZ
OH5>PA(Es) DL>SM2 G>OH6(Es) OH9SIX>DL(ms) ON0SIX>I8 OH3>DL
ES4,ES1,OH5,SM2>PA(Es) OH7,OH5,OH3,SM2,LA7SIX,OH0SIX>DL(Es) LA>OK1 13-1400
OH1>DL(Es) LA7SIX,OH3,SM5>PA G>OH5(Es) LA7SIX>DL(Es) F>OH3 GB3RAL>OH5
DL,F>SM7(Es) SK6QW>DL LX0SIX>SM6 14-1500 SM2>DL(Es) LA,ES2,OH9SIX>DL
LA7SIX,OH5>OZ GB3MCB,IQ4AD,HB9SIX,IW3FZQ,S55ZRS,SV1,F>CT 15-1600 IQ4AD>LA
OZ7IGY>OH5 16-1700 G>SP9(Es) GB3BUX,OZ7IGY>DL(tr) 1958 JW5SIX,JW7SIX>SK2 20-2100
JW9SIX>SK2 JW5SIX,JW9SIX>SM5

Oct 19 0733 I8EMG>I7 09-1000 UT6>9A IQ4AD>SP7 YO2>DL UU5,I7>SP1 OZ7IGY>I8
YU7>ON,OZ(Es) UU5>DL,SP5(Es) G>I5(Es) S5>UY5(Es) LZ2>DL(Es) 10-1100 LZ2>SP1
UU5SIX,LZ3>DL(Es) UY5>I3(Es) GB3MCB>CT(Es) SV2,LZ2CM,LZ1JH,YO3JW>DL(Es)
LZ3,I8EMG,LZ1JH,SV9SIX(Es)>OZ I3>UY5(Es) DL>YO7 I8EMG>DL(Es) UY5>I1 LZ2>SP2,OZ
UR5>I4,I1 LZ3>SP5,DL CS1RLA>I1 LZ2>F,PA(Es) I1>CT SV1SIX>OZ I3,I4>UY5 IZ1EPM>CT
DL,OE2>YO7 DL>TA7A 11-1200 DL,YL2,OE9,OK1,G>YO7 S5>UY5 I9>DL,OE5(Es) YO7>PA
LZ1SJ>DL UY5>CT(2xEs) I9>OE5 CT,YO3JW,SV1SIX,SV9SIX>OE5(Es)
I8EMG,LZ1SJ,LZ1JH>DL(Es) IW3FZQ,ON0SIX,F5TND,FX4SIX,HB9SIX,I8EMG>CT(Es)
CS1RLA,LZ1JH>OE5(Es) SR3FHB>I7 I9>SP2,DL HA2>UY5 DL>YU1 12-1300
SV9SIX,LZ1JH,LZ2>DL LX0SIX,ON0SIX>LZ2 CT>IS0(Es) LZ1>F,PA(Es) DL>YU1
YU1,UT2,HG8>I1(Es) 13-1400 YO7,YO2>F(Es) IS0>HA6(Es) G,LZ1,ON,DL,PA>YO2 HA6>I1,I2

I8EMG>PA,OZ SP6>I1 9A0BHH,YU1>DL 14-1500 IS0>PA I8EMG,S5>DL(Es) IQ4AD>SP6
I0JX,IK5ZUL,I5MXX,IQ4AD>CT(Es) F>HA6(Es) HA8>D(Es) YO7>DL(Es)
9A,YU1,UT7,S6,HA8>DL(Es) I2>SP6,SP7(Es) G>LZ1(Es) 9A>OZ ON>YO2
EA3SIX,I21EPM,I5MXX,EA7,UT7>SP6 UT2>F(Es) OZ>I8 LX>YO5 DL>I8 15-1600
UT7>DL,SP2(Es) SR3FHB>I2,EA6(Es) G>S5 SM0>I0(Es) EA6,S5>OZ DL>I8,I6 IS0>PA
I8EMG,I4>DL(Es) LX>ER1,UY5 DL>EA6(Es) CT>SP9(Es) I4>SP1,SM4,OZ EA5>DL LX>DL(tr)
I5>SP2(Es) OZ>I6 SM7>EA6(Es) EA6>SP2,DL,OZ(Es) G>DL(ms/tr) UY5>OZ(Es) UO7>ON(Es)
PA>DL(tr) G>HA7(Es) 16-1700 LX>DL(tr) I4>SP1 SM7>I2(Es) LX>ER1 YL2>I2(Es) OH8>PA(jt)

Oct 20 07-0800 LZ2CM>YO7 OZ7IGY>EA6(Es) G,LA>SP9(ms) 08-0900 5B4CY,OE9>PA PA>LA(ms)
OZ7IGY>OE5 09-1000 LZ1>IS0(Es) I9>SP8 10-1100 9H1SIX>DL(Es) LZ1>IS0(Es) 11-1200
SV9SIX>EA6,EA5 9H>EA5 1416 DL,HBtv>CT(Es) 15-1600 G>SP9(jt) EA8>EA1(ES) 1647
PA>HA2(jt) 19-2000 OZ>HA2 20-2100 SM7,OZ>HA2(jt) OE5>SM0(jt)

Oct 21 06-0700 G>OE9(ms) OH9SIX>DL (ms/Es) 07-0800 I0>F(Es) 08-0900 I4,I0>DL(tr) G>EA1(ms)
SV2>SP9(ms) F>I5 I5>LY2 S5>SV2 09-1000 I0>ON,PA G>HA2(jt) G>I5(jt) 10-1100 F>OE5(Es)
G>HA2(jt) G>SM0(jt) I9>I1,I3 SV9SIX>EA6(Es)CN8MC>I8 SV9SIX>EA5 EA6>5B(Es) EA5>SV1
G>SM0 11-1200 EA5,CN8MC,SV1SIX>EA6(Es) HG1BVB>DL(tr) SV1>EA5(Es)
EA7,CT,CN8IG>EA6(Es) CT1ART,SV9SIX>IS0 SV1SIX,SV9SIX(2xEs) CS1RLA>EA5 12-1300
CU3URA>EA5,CT CU3URA,IS0GRB,IQ6VP>CT EA5/G0KOM>CT1HZE(59 715km)
SV9SIX,9H1SIX>EA6(Es) CT>SV1(2xEs) EA2SIX>CT(Es) CT>CU3EQ I1,IT9>CT UT9>CU3 13-
1400 OD5SIX>CT I0>I4 14-1500 CU3,GB3MCB,GB3IOJ>CT(Es) 15-1600 CS1RLA,CT0SIX>IS0
16-1700 LA>OZ(jt) SV1SIX,SV9SIX>I1 SV9SIX,SV1SIX>I2 17-1800 LA>PA(jt) SM7>OE9(ms) 20-
2100 SO5>PA(jt) LA>SO5(ms) SM7>F(jt)

Oct 22 07-0800 G>LZ1(jt/ms) OZ,OE5>LZ1(ms) 08-0900 EA2>EB1(tr) OE5>EB1(ms) F,CT>OE5(ms)
F>EA2(jt) 09-1000 I3>IT9 10-1100 IS0GRB,I0JX,IK5ZUL,IQ1SP,I8EMG,I5MXX>CT(Es) S5>G(ms)
1229 CQ3SIX>EA5 1712 JR6EXN>PA(eme) GM>OE5(ms) G>OE9(ms) 20-2100 PA,G>OE1(ms)
I1>OE9(ms) 21-2200 LA>LA(jt) I1>HA2(jt) 22-2300 GM>HA2(jt) HA2>OZ(jt)

Oct 23 08-0900 LA1>HA2(jt) LZ1>OE5(tr/jt) 0953 SM7>HA2(jt) 10-1100 CN8IG>PA EB1>LZ1(jt)
EA2B>PA IK5ZUL>EB1(ms) 11-1200 CS1RLA>PA,DL CT1ART,CT0SIX>DL(Es) 4U>EB1(ms)
CN8IG>DL EA1>LZ1,DL,F ON0SIX,GB3BAA,GB3IOJ,EI0SIX,PA>EA5 I1>EA1 I1>EB1(ms) 4U>I4
12-1300 EA4,EA1>DL EH1>I2 13-1400
GB3BUX,GB3BAA,GB3MCB,EI0SIX,GB3RAL,GB3IOJ>CT EA1>PA,DL ON0SIX>CT 14-1500
EA1>DL HB9SIX>EA5 CT>G EH1DVY>EI G>EA1 16-1700 G>OE9(jt)18-1900 DL>OZ
JW5SIX,JW7SIX>OH6 SM7>OE1(ms) 19-2000 OZ>OE2(ms) OH0SIX>SM0 OZ>PA(jt)
JW5SIX,JW9SIX>SM2 JW9SIX>OH3 JW5SIX,JW9SIX,JW7SIX>SM0 JW9SIX>LA 20-2100
LA7SIX>SM0 JW7SIX,OH9SIX>LA,SK2 SM3,OH6,TF3SIX>SK2 21-2200 OZ7IGY>DL

Oct 24 0758 OZ,S5>EB1(ms) 08-0900 LA>OZ(tr/jt) EB1>OZ(jt) 09-1000 SV1SIX,SV9SIX>OE5(Es)
I8EMG,SV9SIX>DL(Es) 10-1100 SV9SIX>DL(Es) GB3BAA>CT,EB1 CT1ART>DL ON0SIX>EB1
IW3FZQ,I8EMG,GB3RAL,HB9SIX,S55ZRS>CT OE6>EB1(Es) CT0SIX>OE5(Es) EB1>9A(Es)
EA1>9A GU,ON>EA1(Es) 11-1200 LX0SIX,DL>CT DL>CT G,I1,OE5,I4>EA1
CS1RLA>OE5,ON,DL CT1ART>DL,OE5 ON0SIX,I9>CT CT0SIX>DL EA1>S5(Es) 12-1300
DF0ANN,GB3BUX,I0JX,EI0SIX,I9,IS0GRB,F5TND>CT(Es) 13-1400 I1>S5(tr) LX>F,S5 14-1500
DL>S5 EA3RCC>CT(Es,short) EI0SIX>CT 17-1800 OH8>LA(jt) OH8>OZ(jt) 18-1900
JW5SIX>SM2 JW7SIX>OH1 19-2000 OH8>LA(jt) 2112 OY>LA(jt)

Oct 25 10-1100 SV1SIX,SV9SIX>DL(Es) 1158 HB9SIX>CT 12-1300 IK5ZUL>CT CN8IG>DL aurora

Oct 26 0747 HB>OE9 09-1000 LY>DL 1023 EA5>OE3(Es) 11-1200 GB3IOJ>S5 G>I4,S5(Es) EA1>S5
G>I4 1A4A>I4,S5,I0 CT0SIX,I0JX>DL G>OE9 EA2B,EA2SIX>DL,OE5(Es)
CS1RLA,EA3RCC>DL(Es) CT1ART,CT0SIX,CS1RLA>OE5(Es) 12-1300

GB3MCB,GB3BAA,GB3RAL,GB3IOJ,PA,LX0SIX,GB3BUX,DF0ANN,ON0SIX,EI0SIX>CT(Es)
DL>EA5(Es) 1A>DL GB3IOJ>IS0 EI0SIX>CU3 CT1ART,CN8IG>PA 13-1400 EI0SIX>CT(Es)
EA7>PA SV1SIX,SV9SIX>S5 14-1500 UT7>DL,S5 1657 HA3>OE9(ms) 17-1800 LX0SIX>EA7 18-
1900 CS1RLA,CT1ART,CT0SIX>DL HB9SIX>CT

Oct 27 0745 LZ1SJ>UA4 0848 LZ1SJ>UA4 09-1000 LY0SIX>I1,DL,UA4(Es) LZ1SJ>OZ OZ7IGY>LZ4
UT4>I1(Es) OH0SIX>S5(Es) LZ1JH>OZ S5>OH3 HG7BVA>UA4 UT3>DL,ON 10-1100
LZ3,LZ1SJ>DL LA,SK6,OZ>YU1 ON0SIX>EA5 GM>OE5,S5 GW>SP9 HA3>OZ LZ1,LZ3>UY
LZ2,LZ3,LZ4>DL(Es) S5>SM6 SM2>OH3 I1>UT(jt) SM6,SM5>9A EI0SIX>OE5(Es) I0JX>LZ|(Es)
9A>OZ G4DEZ>OK1 ES1SIX,U5MXX,IQ4AD>UY5 GM>DL G>HA6 F>UT4 1A>SM0 EI,LZ4>OE5
IZ1EPM>EI HG1BVB>UA4 GW>OK1 11-1200 ON>LZ4 PA>HA6 1A,I2,I0>LA GW,G>OK1
ON>YO3 HA3>PA 1A>OZ LZ4>YO3 G>SP6,OE1 5B4FL,HA1,I8EMG>DL GB3MCB>SP6
GB3BAA,F>LZ4 EI>OE2 G>LZ4,OE1 12-1300 F>SP1 GW>DL G>OK1,DL,OE1,9A,ON,CT SP9>F
DL>EI(Es) EA6>OZ EI>OE1 EI>CT 13-1400 IW3FZQ>EI GW>OE1,DL GB3BUX>CT(Es) 17-1800
JN1FJC>OZ1DJJ,PE1BTX(eme) 18-1900 EI0SIX>DL JR6EXN>EA3(eme) 1927 OH8>LA(jt) 2244
W1JJ>PE1BTX(eme)

OCT 28 0730 k6myc>pe1btx(eme) 0839-59 OZ>LA(jt) SP9>F(jt) 09-1000 F6FHP>PE1BTX(eme) G>F(jt)
LZ1>S5 I8EMG>UT3 I0>LZ4 Sv1SIX,SV5SIX>SP3 10-1100 SV9SIX>SP3,OE5,DL,HA1,HA4
SV5SIX>OE5,DL SV1SIX>DL,HA4 I0>LZ4 SP3>HA1 CS1RLA>EI LZ1SJ>I4,I3 I9>HA4
OZ7IGY>EA5 IQ6VP,I8EMG>EI(Es) OY>LA(jt) ON,DL>I0 ON0SIX,PA>EA5 11-1200
EB5>DL,SP3 UT3>SM0 F>HA3(Es) OK2>OM3 SV9SIX>OE1 F>I7 HG1BVB,LX0SIX) PA,F>I8(Es)
GB3MCB>I8 EA2B,EA5,CT0SIX,CT1ART>DL EA1>9A,HA3 CS1RLA>DL GB3BAA>I0
EA6>SP3(Es),F,DL OK2>OM3 SV9SIX>I1 PA,DL,HA3>EB5(Es) 12-1300 G,HA1>EB5(Es),PA
F,EA5,CT0SIX,CT1ART,EA3RCC,EA6,PA,EB2>DL EA>HA3(Es) EB3>F GW>EA5 13-1400
EA5,EB3>PA EB2>OZ EA2SIX>DL G>EA5 1401 GM>EA5 1618-48 G>SP9(ms)
K6MYC>OZ1DJJ(eme) 1858 G4IGO>PE1BTX(eme) 20-2100 OH8>LA(jt),SP9(jt)

OCT 29 08-0900 SM7>HA2(jt) 10-1100 9A0BHH>EI(Es) EI>DL(Es)
IQ4AD,IW3FZQ,HB9SIX,SR1RLA,I4,IS0>EI(Es) GM>I1 I1>GW EI0SIX>I0 EI>PA 11-1200
EA3RCC,CU3URA,CN8MC,I0JX>EI GB3BUX,EI0SIX,GB3BUX,GB3BAA,CN8IG,
CT1ART,CS1RLA>IS0 12-1300 CT,EA2SIX>EI PA,F>EA1(Es) CN8IG>OE5,DL(ES) PA>EA6
CT0SIX,CU3URA>DL,OE5(Es) S55ZRS,IW3FZQ,I0JX,IQ4AD,DF0ANN,G,F8KOT>CT
G>EA5,EA1 CT1ART,CT0SIX>PA GU>I1 EA2B,EA1>DL 13-1400 EA1,CU3URA,CT1ART>DL(Es)
G>EA1,I1(Es) GB3MCB>I1 DL>F(Es) CS1RLA>DL,OE5 EA1>OE5(Es) I2>HB CU3,IK5ZUL>EI
CU3>DL(2xEs) 14-1500 GB3IOJ,GU>EA5 15-1600 GB3BUX,GB3BAA>EA4 EI0SIX>EA5 20-2100
MM0AMW>PE1BTX(eme) OY6BEC>OH3 LA7SIX,OH9SIX>OZ

Oct 30 10-1100 GB3IOJ,GB3RAL,GB3BAA,EI0SIX,GB3BUX,IW3FZQ,LX0SIX,IQ4AD,IZ1EPM,
S55ZRS,HB9SIX,GB3MCB,F5TND,I0JX>CT(Es) GB3MCB,CT0SIX>DL LZ2CM>YO7 11-1200
CS1RLA>I1 DF0ANN>DL(tr) 1202 IZ1EPM>CT 15-1600 CS1RLA,CT0SIX,CT1ART,LX0SIX(tr),
HB9SIX(tr)>DL 2009 OH8>LA(jt) 2118 G4IGO>PE1BTX(eme)

Oct 31 10-1100 GB3BAA,GB3RAL>CT 13-1400 GB3IOJ>S5 1422 EA2SIX>DL(Es) 18-1900
JW9SIX,JW7SIX>SM2

50MHz PROPAGATION REPORT FOR OCTOBER 2007 BY SV1DH

1. Data for all days (31)
2. Relatively good days on: 19,21,28
3. 48 MHz AF video (9L+3C) on: NIL
4. 55 MHz AF video (5N) on: NIL
5. " CT on: 21(2E!)

- 6. " EA6 on: 21
- 7. " EA on: 21
- 8. " I on: 21,28
- 9. " S5 on: 26
- 10. " OE on: 19,24
- 11. " LX on: 19
- 12. " OZ on: 19
- 13. " GM on: 21(2E!)
- 14. " DL on: 19,25,28
- 15. " SP on: 28
- 16. " OK on: 19,28
- 17. " HA on: 28

18. Special events on:

- 8(0040 PJ4 to LU on 2m, 5000Km!)
- 10(0045 PJ4 to PY4 on 2m)
- 19(1115 OZ to SV1,2 on 4m)
- 23(1315 CT to G on 4m)
- 26(1030 I0 to G on 4m)7
- 27(1100 S5 to G+1300 I0+1A to G on 4m)
- 28(1015 SV14 to SP+ 1030 I0 to G+ 1100 S5 to G, all on 4m)
- 29(1100 I0 to G on 4m)
- The second Es peak of late Oct, better then the Jan one.

- 19. DXCC entities heard/worked during Oct 2007 :13 on 1 cont
- 20. DXCC entities heard/worked on 21st Oct 2007 5 on 1 cont.
- 73 COSTAS

The Americas

Auroral-related Modes

Oct 19 0602 VE4SPT(EO26)>VE7(CO88)

Other Modes

For much of the month the US and Canada, like Europe, had no propagation of note, though a little sporadic-E was reported on the 20th, 21st and 25th. However, there was a substantial sporadic-E event on the 26th, lasting for several hours and including a number of coast-to-coast double-hop contacts and extending at times to most regions. The compressed summary below does not do full justice to the high level of activity that developed.

By contrast, trans-equatorial propagation made the entire month more fruitful for stations in South America and the Caribbean, with contacts seemingly attributable to that mode every day except the 17th. (There was no obvious explanation for the absence of reports for that day.) Perhaps because we are so close to solar minimum openings were mostly in the optimum tep zones, including the northern fringe of South America. Brazil was particularly favoured – though this may be a function of its size and amateur population, but there were no reports of the western side of South America (though CE and OA are known to have been active). There were no reported contacts between South America and the southern United States and there was just one reported reception of Central America in South America. Sporadic-e, which might have furnished an extension from the tep zone further north unfortunately did not occur during the

peak periods in the first half of the month. It is also worth noting, as SV1DH has done already, that tep contacts were also made on 2m on the 8th and 10th, over ranges up to 5,000km. All contacts appear to have been 'evening type'.

Transequatorial Propagation October 2007

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+

CX 1 day: 22(YV)

LU 4 days: 8(PJ,YV) 10(PJ) 12(PJ,YV) 26(PJ)

PY 29 days: 1(9Y,FG,FM,FY) 2(9Y,FY,FG) 3(9Y,YV,FY,FM) 4(FY) 5(9Y,FM,KP4,YV,P4,FY) 6(9Y,FM,FY) 7(9Y,KP4,FM) 8(FG,YV,9Y) 9(FG,FM,YV,9Y) 10(PJ,YV,FM,9Y) 11(PJ,9Y) 12(9Y,FY,FM,YV) 13(9Y,FY,FM,YV) 14(9Y,YV) 15(9Y,FY) 16(9Y,FY) 18(PY,9Y) 19(9Y,FG,PJ) 20(9Y,FG,YV) 21(FG,YV,KP4,9Y) 22(9Y,FG,P4,KP4,YV) 23(9Y,YV) 24(FS,9Y,YV,FM,TI) 25(YV,FG,KP) 27(9Y,PY) 28(9Y,KP4) 29(9Y) 30(9Y) 31(9Y)

ZP 2 days: 1(PY) 2(FY)

Oct 1 00-0100 FY7THF>PY5 YV4AB>PP5 9Y4AT>PY4,PY2 YV4DYJ>PY2,PY5,LU,PP5 FM5AD>PY5,PP5 FM5AN>PY2,PY5 FS5HL>KP4 ZP4KFX>YY5,PP5 FM5AA>PP5,PU2 FM1HM>PY5 01-0200 FM5AA>PP5,PU2 9Y4AT>PY5 02-0300 FM5AD,FM1HM,FY7THF>PY5 2219 W4>W4(ms) 23-2400 9Y4AT,FG5GP>PY5 FG5GP>PY2 FY7THF,FY1FL>PY5

Oct 2 00-0100 FY1FL>PY2 FG5GP>PY5 YV4DYJ>PY5 ZP4KFX>FY1FL 01-0200 9Y4AT,FY7THF>PY5 03-0400 9Y4AT,FY7THF(417)>PY5 04-0500 VE7,W7>VE7

Oct 3 00-0100 9Y4AT,YV4AB,PR8SIX,FY7THF>PY5 9Y4AT>PY2 FM1HM>PY5 YV5DRN>PY5,PY2 FM1HM>PY2 01-0200 FM5AA>PY5 PY2WBC>FM5AA W8>W2 02-0300 PY5IP>FM5AA 9Y4AT>PY5,PY4 0306 9Y4AT>PY4

Oct 4 00-0100 W4>W4(tr) PT2>PY2 01-0200 W8IF/b>W8 02-0300 PY2>PY2 1329 TI2NA>KE4WBO 1415 NOLL/b>W0(tr) 2023 PY2WFG/b>PY2 2133 FY7THF>YV5 2309 PY2WFG/b>PY2

Oct 5 00-0100 9Y4AT>PY5 PY2WBG/b>PY2,PY5 PR8ZIX/b>PY5 W5>W4(jt) FM1HM>PY5,PY2 WP3UX,KP4YI>PY5EW PY2VV,PY2RDS>FM1HM 01-0200 PY2RDS>FM1HM W8IF/b>W8 9Y4AT,PY2WFG/b>PY2 YV4DYJ,YV4DDK,YV5DSL>PR8 YV4DYJ>PY5 9Y4AT,YV4AB>PY2 YV4AB>PY5,PY2 W4>W4 P43A>PY2 02-0300 YV4DYJ>PY4,PY2 P43A>PY2 PR8>PY5 9Y4AT>PY5,PY4 FY7THF>PY5 YV4AB>PY2 YV5GRB>PR8 0401-48 VY1DX/b>W7(ms) 9Y4AT>PY2 VE7>VE7,W7

Oct 6 00-0100 9Y4AT>PP5,PY2 FM1HM>PP5 9Y4AT,YV4DYJ>PY5 FM1HM>PY4 W3DOG/b>W4 FM5AA>PY5 PY4AQA>FM5AA 02-0300 FY7THF/b>PY5 FM5AA>PY5 PU2MXU,PY2REK>FM5AA 02-0300 9Y4AT>PY2 0437 W7>VE7 1421 W0>W0(jt)

Oct 7 00-0100 9Y4AT>PY2,PP5,PY4 PY2MTV/b>PY2 01-0200 KP4>PY4 PY2RDS,PY2BN,PY2BT,PY2EU,PU2MXU,PY2REK>FM5AA 0208 9Y4AT>PY2 0437 VE7>W7 2344 9Y4AT>PY5

Oct 8 00-0100 YV4DYV>LW1DZ.PY5 PJ/PA3CNX>LW1DZ ,PY5 YV5IAL>PY5 9Y4AT>PY2
LU3WX>YY5PER PY5HOT>FY1FL FG5GP>PY5,PY2 0231 9Y4AT>PY5 04-0500 W7>VE7
W6>W6(ms)

Oct 9 00-0100 FM1HM,YV4AB>PP5 01-0200 PY2WFG/b>PY2 VE3>W4(Es/sc) W3>W4(sc) 21-2200
PU2TIB/b>PY2 22-2300 PY0FF/b>PP5,PY2 PR8ZX/b>PP5,PY2 23-2400 9Y4AT>PP5,PY2
PY0FF>PY5 FG5GP>PP5 YV4DYJ>PY5

Oct 10 00-0100 PY2WFG/b>PY2 LU8EOT>PJ4/PA3CNX 01-0200 W1>W2 YY5PER>PY5 02-0300
PY5HOT>FM5AA FM5AA>PY2REK PJ4/PA3CNX>PY5 03-0400 9Y4AT,PR8ZIX/b>PY5 22-2300
W4>W4

Oct 11 01-0200 9Y4AT>PU3 02-0300 PJ4/PA3CNX>PY4(tep) VE7>W7 04-0500 W4CGA>W4 05-0600
PY2WFG/b>PY2

Oct 12 0049 9Y4AT>PY5 01-0200 W4>W4 YV4AB/b,PJ4/PA3CNX>LW3EX PY9MP>FY1FL
9Y4AT>PU3,PP5 FM5AA>PY5,PY2 0225 YV4AB/b>PY5 0311-19 FY7THF>PY5 9Y4AT>PY2
0441-8 W7>W7,VE7 23-2400 W8IF/b>W8 LU5EGY/b>PY4

Oct 13 00-0100 LW3EX,LU8DIO>PY4 LW3UK>PY2 9Y4AT>PY4,PY5 FY1FL>PY5 W4>W3
LU5EGY/b>PY4 01-0200 9Y4AT/b>PY2,PY5 YV4AB>PY5 15-1600
LW3EX,LU1DMA,LW3EWZ,LU8DFM,
LU6ARR,LU88DIO,LU4DMX,LU6QI,CE3AA/b>LU7YS(Tierra del Fuego) ON4GG>KJ9I(eme)
W9DR/b>W8 16-1700 W7>VE7 23-2400 9Y4AT,FY1FL>PY5 9Y4AT/b>PY2
FM5AA>PY2,PY4,PY5 PY4>YV5

Oct 14 00-0100 W9>W4 9Y4AT/b>PY2,PY5 PR8ZIX/b>PY5 YV4AB>PY5,PY2 0102 9Y4AT/b>PY2 0209-
23 YV4AB/b,9Y4AT>PY5 0324 9Y4AT/b>PY5 1251 W8>W8 1833 PU3SIX/b>PY2 20-2100 LU5EGY>PY2
21-2200 LU2NI>PP5 LU1FVE>PY2 22-2300 CX2CC>PY5 LU3EX>PY2 9Y4AT/b>PY5 2342 9Y4AT>PY5

Oct 15 00-0100 W5,W4 9Y4AT>PY2 02-0300 WZ8D>W8,W4HRS/b>W4 W9VW>W8 23-2400
PR8ZIX/b,FY7THF>PY5

Oct 16 00-0100 9Z4BM>PY5 PR8>PY5 9Y4AT/b>PY2(tep) 2157 PY0FF>PP5 23-2400
9Y4AT/b>PY5,PY2 FY1FL>PY5

Oct 17 00-0100 PU3SIX/b>PY2 W4>W0 01-0200 W0>W>W4,W5 02-0300 W4>W0 03-0400 K0KP/b>W3
0318 W0MTK/b>W7

Oct 18 0-0100 FG5FP>PY2 12-1300 W4>W8,W5 W8>W8 W9DR/b>W8 2022 VE7FG>W7 2137
PY0FF/b>PP5 2213 9Y4AT/b>PY5

Oct 19 00-0100 9Y4AT/b>PY2 01-0200 9Y4AT/b>PY2 PJ4/PA3CNX,FG5GP>PP5 0319 VE7>W7(sc)
0519 W7>VE7(tr) 2058 VE7FG/b>W7 2334-2349 W9>W4,W5(Es)

Oct 20 00-0100 9Y4AT/b>PY2 W9DR/b>VE2 W8>W4(Es) VE2,W5>W4 ZF2BI>W4(Es)
W4(EL87)>W6(DN22)(Es) W8>W4(Es) W7>W4 W0>W4 ZF2BI>W8 W5>W0 01-0200 W5>W4
,W7 W5,W7>W6 KA0CDN/b>W5 W0>W7 LU6FCI>FY1 9Y4AT/b>PY2 02-0300
9Y4AT/b,YV4AB/b>PY2 W0>W5 W4,W8>W8 03-0400 W5>W6 23-2400 W5>W4
9Y4AT/b>PP5,PY2 FG5GP>PY4,PP5 23-2400 W5>W4(Es) W1>W1 PR8ZX>YV5
YV5ESN>PP5,PY2 W0>W4

Oct 21 (sprint contest) 00-0100 FG5GP>PY5 W0,W5>W4 YV5ESN>PY2,PY5 W4>W5(tr)
PY5HOT>NP3CW,WP3UX,KP4SQ KP4TG>PY5 W5>W4(Es) PR8>PY5 LW3EX>PR8
KA0CDN/b>W5 W7>W4 01-0200 CX2CC>YV5ESN W5>W4 W1>W2 W4>W5(Es) 9Y4AT/b>PY5
02-0300 YV4AB/b>PY4,PY5 W2,W4>W4 1241 W4>W5(tr) 13-1400 K4TQR/b>VE3 19-2000
LU5EGY/b>PY2 W5>W4 2008 LU>PP5 22-2300 LU5EGY,CX2CC>PP5 9Y4AT/b>PY2 PR8>YV5
PR8ZX/b>PP5 23-2400 PU2>PR7 PR8>PY2 9Y4AT/b>PY5 PR8ZIX>PY2,PY5 YV4DYJ>PY2
KP4SQ>PY2,PY5 P43A>PP5,PY2 CX2CC>YV5

Oct 22 00-0100 PR8>PP5 P43A>PY2 9Y4AT/b>PY2(tep) YV5ESN>PP5 FG5GP>PY5 CX4CR>YV5,PY2
LU5EGY/b>PY2 LU7MB/b>PY9 PR8>PY5 01-0200 9Z4BM>PY2 1202 W4>W4 1506 W4>W9 22-
2300 9Y4AT/b>PY2 KP4EIT,WP4CNU>PP5 23-2400 FG5FP>PY2,PY5,FM5 CX2CC>YV5

Oct 23 0614 VE7FG/b>W7 1436 W8>W9 23-2400 9Y4AT/b>PY2,PP5 YV5ESN>PY2 PY2>YY7

Oct 24 00-0100 PT2PA>YV5 FS5HL>PP5 YV5ESN>PT9 9Y4AT/b>PY2,PT9 YV4AB>PY2,PP5 LU>PR8
WP3UX>PY2 OA4B/b>PP5 W4>W8 01-0200 TI2NA/b>PP5 FM5AA>PY2,PP5
LU5FCI,PY1ZV,PY2MTV>FM5AA LU>PR8 9Y4AT/b,YV4AB>PY2 02-0300 PY2,PT9>PR8 1445
W8>W9 2339 9Y4AT/b>PY2 2255 VE1>VE2(Es) 23-2400 VO2FUN>W3 VE1SMU>VE2(Es)

Oct 25 00-0100 YV5ESN>PP5(tep) FG5FP,9Y4AT/b,YV4AB/b(tep)>PY2 WP4AZT>PY2,PP5
YV5DVN>PY2 01-0200 W4CBX/b,K9MU/b>W4 0703 VE7>W7 1744 HC8N>YY5 2255
VE1>VE2(Es) 23-2400 VE1SMU/b>VE2(Es) VO2FUN/b,W1>W3 W2,VE1SMU/b>W8

Oct 26 00-0100 VE1SMU/b>W3,W8 VO2FUN/b>W4 PJ2/K1QX>LU W8>W9
K4TQR/b,WB0RMO/b,KD4AOZ/b,WZ8D,N0LL/b>VE2(Es) W0>W4 W1,W3>W9 W0>W3
K0KP/b>W4 W1,K0KP/b>W8 W2>W3 01-0200 W0>W1,W3 W2,W9>W9 W5,W6>W8 W5>W2,W3
W8>VE3,W0 W4>W1 W1,W3,W4,W5,W8>W9 N0LL/b,VE3,W1>W4 W7,W6>W3(2xEs) 02-0300
W5,W8>W2 W0>W5 W4>W3,W2 W4,W5>W9 W6>W4,W5,W8(2x) K0UO/b>W3
W5GPM/b,K4TQR/b>W3 W4CHA,KD4AOZ/b>W8 K5AB/b>W0 W7>W3(2x),W8 03-0400
W4>W2,W8 W5>W3,W0 W7>W4(2x),W2,W9 W2>W3 11-1200 W4>W8 1233 W5>W9 1322
W4>W1 2226 W4>W1

Oct 27 15-1600 W4>W4 23-2400 PR8ZX/b>PP5 9Y4AT/b>PP5,PP1

Oct 28 00-0100 9Y4AT/b>PY2 KP4BJB>PP5 23-2400 9Y4AT/b>PP5

Oct 29 00-0100 9Y4AT/b>PP5,PY2 0240 9Y4AT>PY2 1254 WZ8D/b,W8IF/b>W8 20-2100 W2>W2

Oct 30 1125-42 W1,W5>W4 12-1300 W4>W4(Es) W0>W4 1308 W9>W4 17-1800 W1,W2,W3>W4 18-
1900 W4>W3 W8,W1,W2>W4 1917 W9>W4 2014 W2>W2 2358 9Y4AT/b>PY5

Oct 31 00-0100 9Y4AT/b>PP5,PY2 05-0600 VE7>W7 23-2400 W1>W3

Asia and the Pacific

A quiet month with few reports, a substantial proportion of which related to TV reception below 50MHz.
Activity in Australia and, even more, New Zealand appears to languish.

Oct 2 0340 45250(ZL)>JA1

Oct 16 0709 BY,UAtv>DU7 0819 BY/UAtv>DU7

Oct 17 0033 VK5RAS>VK3

Oct 18 0624 VR2SIX,UA0/BYtv>DU7

Oct 19 0045 57750(BY)>JE7 1247 VK6RPH>VK5

Oct 20 0843 VK5RBV/b>VK6

Oct 22 0517 JH1WHS>VK5BC 1638 G4IGO>JR6EXN(eme) 1708 PE1BTX>JR6EXN(eme)

Oct 23 0358 45250(ZL)>JA1 0355 46172(VK4)>JE1

Oct 25 0022 57750(BY)>JA7 0247-9 VK4RTL,VK4ABP>VK5 0357 BV2NT/b>DU7 0416 BV2NT/b>JH7
1105 57750(BY)>JE7 0646 VK2RSY>VK5 0821 BG7>BG9

Oct 26 0358 46172(VK4)>JE1 0738 BY/UAtv>DU7 1120 V8AQM>BG7

Oct 28 0413 45250(ZL)>JE1 0732 UA/BYtv>DU7 1737 PE1BTX>JR6EXN(eme)

Oct 29 0330 45250(ZL)>JE1 0335 45239.6(ZL)>JE1

Oct 30 0252 VK4ABP>VK5 0434 VK2RSY>VK5 0626 UA/BYtv>DU7 also, time unstated, VK9ZLH(Lord Howe)>VK5

28 MHz Beacon Reception in the UK

Beacons In Europe

The table below covers all beacons in continental Europe reported into Britain, by 3-hour (UTC) blocks of time and the number of days, in percentage terms, when the signal was heard. (i.e. '3' = 1 day, and so on.)

Beacon	06-09	09-12	12-15	15-18	18-21	21-24
C3OP			10	3		
DF0ANN		3				
DK0TEN		3	13	10		
DL0IGI		13	6	13		
DM0AAB		6	3			
DM0ING		3				
F5ZUU		10	6			
F5ZWE		13	10	3		
I1M		16	13	16		
IQ1SP	3	13	10	16	3	
IW3FZQ		19	10	6	3	
I8EMG	10	13	16	13	6	
LA5TEN		3	3			
OH5TEN		3				
OH9TEN				3		
OK0EG	6	10	13	6		
SM5HUA		3				
SK0CT		3				
SV3AQR	3	3	3			

Beacons Outside Europe

	06-0900	09-1200	12-1500	15-1800	18-2100	21-2400
4X6TU	10	3		3		
CS3B		3	3	6		
YV5B				3		
ZS6DN		3	10	10		

Countries worked from the UK in October included:

1A 3DA 4O 4X 5L 8P 9A A7 C3 C5 C9 CE CT2 CX DL EA EA6 EA8 F FY HB0 HC8 HV I LU OE OH OZ P3 PJ PY PZ S5 SM T7 T9 UA V2 VP8 W YO YV ZC4 ZD7 ZL ZP ZS ZS9

28 MHz Worldwide

In what is expected to be the final October of cycle 23, with flux levels just a fraction above the lowest levels they are thought to reach – 65 being considered as approximating to absolute zero – 28 MHz could scarcely be said to have been in flourishing condition, but once as seen worse. Doubtless the generally low level of geomagnetic activity for much of the month helped, and there was also the helpful coincidence of sporadic-E in some regions with the CQ DX ssb contest. (As on 50MHz, sporadic-E was reported widely in Europe and, to a lesser extent North America, from around the 18th.)

Apart from contests, dxpeditions were also a stimulus to activity, at times demonstrating that the band was not in quite as bad shape as it was reputed to be. Among the less-activated areas that put some time in on 28MHz one notes 3C7Y, 9U0A, 6V7G, C52C, 5U5U and 5L2MS. Some of these were put on for the contest, but most also operated outside the contest period. The CQ contest is of course not alone in creating activity on the band: the monthly NAC contest also attracts attention at unfashionable times.

Perhaps a trifle surprisingly, although there were days, particularly at the beginning of the month, when most operators would have heard nothing when they checked the band, on every day operators somewhere in the world were able to make contacts beyond groundwave range. There would doubtless have been considerably more had more people kept regular watch on the band. Beacons and dedicated beacon watchers, especially in the United States, were a major source of information on openings. Sadly, there were much fewer of them in some other parts of the world.

Taking all periods of the day, contacts or beacon loggings were reported between stations within Europe on 29 days and within North America on 20 days, recovering after a lean period when there were no reports on 10 of the month's first twelve days and, like Europe, profiting from sporadic-E events towards the end of the month. There were reports of propagation between North and South America every day except the 7th and 8th, many of which appear attributable to tep. Stations in the southern states and the Caribbean in consequence enjoyed a marked advantage over those further north.

Contacts between Europe and Africa were reported on all but two days, the 4th and 5th, with the noon and early afternoon periods the most favoured. As in North America, southerly-sited stations had a marked advantage over those in the UK, who had many days without DX signals, and for similar reasons. Beacons featured prominently in the results, due largely to low activity in

Africa. The only other path from Europe to show appreciable results was with South America, which is known to have been open every day except the 1st, 8th-10th and 21st, with the evenings much the most reliable and the evening of the 16th particularly good. On the 27th, SP5XVY worked PY2ZZ at 2150 – the latest the path is known to have been open. Other intercontinental paths were reported open much less regularly, without it being possible to judge how far this could be attributed to low activity and how far to conditions. About the only notable one was South America (evening) to Japan and Australia at the start of the WW contest – a path that is routine further up the cycle but is currently infrequent

A number of reports stand out as beating the averages. Among them, in no particular order, were contacts on the 25th between SM3EAE at 1935, GM3POI and N6WK and NT5C at 1957, K9RX(AZ) at 1947 and W5GAI at 2025. Also on the 25th MM0SJH on Orkney spotted W4, W5 and W8 between 1900 and 2000. Around the same time SM3EAE worked KF4GDX. (The 25th was well above average within the US and between US and Africa.) Previously, VE1YX had worked S58AL at 1546 on the 19th, with K3OO reporting I5, F and EA 59+. MS contacts within Europe were reported on the morning of the 16th. SN5INC reported auroral signals at 1848 on the 4th, including OH2K

The table below (which I hope will be better presented in future reports) shows the daily reliability, in percent, for each time period: morning = before 1130LMT, noon =1130-1430, afternoon =1430-1700 and evening after 1700.

	Oceania				Asia				Europe				Africa				N. America				S. America			
	M	N	A	E	M	N	A	E	M	N	A	E	M	N	A	E	M	N	A	E	M	N	A	E
OC	16	16	3	3	29	23	16	19	0	0	10	10	0	0	0	0	10	16	10	0	0	6	6	3
AS	23	16	6	19	23	26	29	6	19	23	10	10	3	6	16	10	6	0	0	3	19	0	3	6
EU	10	0	0	0	33	16	10	3	61	77	58	48	35	81	42	33	0	13	13	13	3	13	48	77
AF	0	0	0	0	3	16	10	6	23	74	55	48	0	6	10	0	0	0	19	35	0	0	10	35
NA	0	10	19	10	3	3	3	0	19	16	3	0	19	32	13	0	32	42	35	52	23	68	52	48
SA	0	0	0	13	10	6	0	16	35	68	39	3	3	23	23	6	3	52	61	68	19	29	39	45

One can of course only tabulate reported contacts. As usual – or more than usual – a number of caveats are required. Propagation was undoubtedly poor for much of the time, but activity was low and it is a reasonable assumption that some openings passed unnoticed and others went unreported. So, at the continental level, the results can be considered a proven minimum. On the other hand, however, continents being quite large and varied, an opening to one part of a continent may not have been enjoyed by all parts. For example, assiduously compiled reports from DJ7KG in southern Germany showed that he enjoyed substantially more openings than colleagues in Britain.

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