

The Radio Weather in May 2008

Another month of characteristic bottom-of-cycle radio weather: the sunspot number was zero on all but seven days and the solar flux varied only between 66.4 and 71.6, averaging 68.4. The 90-day average was down to 70. There were no solar flares and the X-ray flux stayed at A0 throughout. Apart from brief surges particle densities were in single figures. Solar wind speeds ranged from a low point of 287km/sec on the 12th to 710km/sec when a high-speed coronal stream arrived on the 31st. In HF terms, the crucial variable remained the level of geomagnetic activity. As the table below of 3-hour

	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
LER	10	9	16	12	16	10	8	7	2	3	4	3	4	4	4	9	1	2	11	12	14	17	13	10	9	4	5	15	16	13	15
ESK	13	12	18	15	19	13	9	9	6	9	8	5	6	6	5	12	3	5	13	17	19	19	14	16	12	6	6	21	18	17	16
HAR	13	13	21	15	19	14	10	8	6	9	9	5	7	6	6	13	2	8	15	17	20	18	16	17	11	8	7	20	20	17	18
Kp	14	18	21	16	17	16	10	10	7	10	8	7	9	5	7	10	4	7	15	18	21	18	16	15	13	8	6	21	16	16	16

Acknowledgement to BGS and NOAA.

K measurements for the three British observatories and the planetary figures shows, it was a fairly quiet month. There was not one 3-hour reading of K5 and only a handful of K4s. On the Ap scale the highest daily figure was a mere 13 units and all but nine days returned single figures.

Data Problems

Regretably, data for the compilation are incomplete. This mainly arose because your compiler was abroad, just as the number of 'spots' posted on the web cluster hugely increased and the cluster underwent a remake that made downloading material in a readily usable form difficult. Much of the missing UK material on 50MHz could be traced, but the task of retrieving North American spots was simply too great. 28MHz material suffered similarly. June will be better.

50MHz

Propagation to and from Britain

Was it just a month ago that we were lamenting a 'miserable month'? How much can change in only a couple of weeks – even if we know that it will not last. The onset of sporadic-E brought a great increase in activity, not only by way of Es, now coming into its own for the summer months, but also in ms and tropo contacts. One suspects that many of the latter might well have been possible during the earlier lean months had operators been there to make them.

Meteor Scatter/JT

For months 50MHz activity had been sustained – to the modest extent to which one could describe it as sustained – by JT working, mostly employing meteor scatter (though occasional 'iono' reports came into the frame. Almost all reports collated below were specifically identified by one or both participants as 'ms'. (Where they credited other modes those reports are listed under that heading.) Contacts were more numerous in the first half of the month than in recent

months. (The period included the Lyrids and Aquarids.) However, once the sporadic E season got seriously under way JT6M reports almost completely vanished. They will doubtless return once the sporadic-E wanes.

Day	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
QSOs	1	1	8	14	6	1	8	9	2	6	7	5	1	0	2	2															1

A wider range of countries were heard or worked than in May: CT DL EA E7 F HA HB I IS LA LY LZ OK ON OY OZ SM UR 9A 9H. The times of reported contacts followed a familiar pattern, with its peak during or just before breakfast – but there were again no reports before 0600utc.

UTC	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
QSOs	0	10	14	5	8	9	1	5	0	6	1	3	0	1	5	1	1	0	0

EME

6m EME remains very much a niche involvement, and reporting contacts apparently even more so. The only reports this month were for G5WQ working W7GJ on the 4th, 5th and 6th.

Tropo

Few tropo reports, if any, were particularly noteworthy – but there were certainly more of them. This probably owed more to the increase in activity levels rather than to any marked enhancement of tropo. Most many of the reports were inter-G or for G-EI working, but there were also a number of reports from eastern England of working F, ON or PA (including several by that old 50MHz hand, GJ4ICD, after a long absence. These are classed under this rubric because, although often not mentioning tropo, there was no evidence that sporadic-E had been sufficiently intense to result in very short skip distances. The best ranges reported were all around the 500km mark: GJ4ICD<>DG5YIL (0801 on the 11th), PA0O hearing GB3BUX (2044 13th) and G0JHC working GU4CHY(1807 12th). G3VYF noted ‘nice tropo’ in copying LX0SIX at 0753 on the 6th.

Sporadic-E

‘Back to life1’, exclaims that most persevering of observers, G2ADR. After the long months of band noise, for those who had not embraced the joys of JT6M – radio’s spring awakening came in May though, characteristic of sporadic-E, it arrived on different dates in different places. Some fortunate operators were making the odd contact during the first week of the month, but Ted, G4UPS, had to wait until the 13th for life to return to the band. Up to that point even 21 and 28MHz had offered few signals. Meanwhile G2ADR found nothing until the 24th. From that point on it seems that the whole UK enjoyed daily openings. Incidentally, almost none of G2ADR’s log entries tallied with those from other reporters; sporadic-E can differ markedly between places which may not be all that far apart. Despite the data deficiencies already explained, we know that Es propagation into the UK occurred on all days except May 1 and 2, 8 and 16 – although of course not every part of the country had propagation on all the ‘good’ days.

The tabulation below, set out in (very roughly) alphabetical order of prefix, shows what is known to have been workable within a three-hour resolution. The figures for each record are the strongest reported during the period. Where no signal strength was included in the report this is indicated by a # mark.

	CT	DL
	5 7 10 11 17 19 20 21 23 24 25 26 27 30 31	5 6 13 14 21 24 25 26 27 28
03-06		
06-09	7 9 #	# #
09-12	5 9 9 7 9 #	9 9 4
12-15	8 9 4 # #	2 9 9 9 9 9 9
15-18	9 9 9	9 7 7 7 9
18-21	9 5	# 7 8
21-24	9	9

In terms of times, there were no reported contacts between 0000 and 0300 UTC and only a modest number after 2100, with the main concentration between 0900 and 1800. There

	EA/EA6/ZB	ER	ES0	F(Es)
	3 4 10 11 12 13 14 17 18 19 22 24 26 27 28 29 30 31	13 21 23 25	24 25 30 31	13 14 19 23 24 26 29
03-06	#			
06-09	9 9 5			7 9 7
09-12	9 5 9 9 9 7 9	9	9 5	9 # 7
12-15	9 9 # 9 4		9	9 9
15-18	# 9 5 # 9 # 9 4 9 8 #		# 6	# 9 9
18-21	9 7	# # 9		7
21-24				

may have been a tendency for Nordic stations to be heard more towards the end of the day. At one time or other every country in continental Europe that allowed 50MHz operation was worked from Britain, except ON and PA, which were worked by tropo but were too close in for Es at this

	G-GM	HA	I
	26 27	9 11 12 13 14 17 18 23 24 25 26 27 30 31	1 4 11 13 14 18 22 23 24 25 26 27 28 30 31
03-06		7 9	
06-09		1 9 9	8 9 #
09-12		8 5 6 # #	# 9 9 9 2 5 7 9
12-15	9	1 7 9 # 5 9 7 # 5 7	5 9 7 8 6 # 9 9 9
15-18		9 9 5 9 9 7	9 9 9 4 9 5 5
18-21		4 9 #	# 9 9 5
21-28	5		8 #

point in the season. There were, however, several close-range contacts between England and Scotland and EI, which appeared attributable to Es. The French reports listed were all for

	IS0	IT9	HB	LA
	4 11 13 21 27 29 31	9 13 24 25 28 31	6 13 24 26 27 29 30	4 24 25 26 27 28
03-06				
06-09	9 9	5 9 9	6 6	
09-12	9 # #	# #	3 7 6	# 9
12-15	9 # #	5 # 5	1 6 5 5 9	5
15-18		# 5	9 9	6 # 9
18-21	9			7 #
21-24			#	

Contacts with southern France, well beyond tropo range on the days concerned. LX was marginal but contacts should be considered 'probable Es' rather than definite. (Generally speaking the reporters' indication of mode is followed, though a small number of improbable attributions had to be deleted.)

The geographical spread of contacts were much as one would expect, with areas at ranges between around 1600 and 2000km the most consistent, and somewhat favouring headings

	JW7+9	LX	LY	LZ
	24 27	6 18 27	12 14 20 22 24 25 27 28 31	9 12 13 18 20 21 22 23 24 25 27
03-06			9	9
06-09			4 9	7
09-12		#		9 #
12-15			7 9 9	7 5
15-18		2 8	2 6 #	6 9 9 9
18-21			9 9	9 2 9
21-24	5 9		3	9

south of east. Activity continues to increase in Ukraine, making one realize what an

	OE
	13 14 19 24 28 31
03-06	
06-09	
09-12	9
12-15	9 5 # 9 9
15-18	9
18-21	
21-24	9 9

impact release of 50MHz frequencies to Russian amateurs would have. The great majority of reported contacts were over single-hop ranges, within which so much of Europe lies. Those with

	OH/OH0	OK	OM	OY	OZ
	23 24 25 27 28 30 31	9 13 24 25	12 13 14 17 24 27	24 26 28	11 25 27 30 31
03-06	7 4		9		
06-09	5	# 9 6	# 9	9	
09-12	7 7				#
12-15	5	5 9	9 6 # # 9	6	#
15-18	5 9 9	9	9 7	9	#
18-21	9 5 7				9 9 9
21-24	7 9			7	

SV – which lies beyond maximum range for single hop Es from much of the uk – may have required a double hop, as would much of Ukraine. Turkey, Cyprus and the Greek islands fairly

	SM
	19 22 24 25 27 28 31
03-06	2
06-09	#
09-12	# 7
12-15	
15-18	5 9 #
18-21	7 # #
21-24	#

	SP	SV1-9	S5	TA
	13 14 15 20 22 23 24 25 26 27 28 29 30	5 9 13 14 15 20 24 25 26 27 30	13 17 21 24 31	30 31
03-06				
06-09	8 9 7 7	# #	5 9	
09-12	9 5 7 #	# 9 9 5 # 7 #		
12-15	9 9 7 9 9 # #		5	#
15-18	# 9 8 9 9 7	7 #	3 9 9	
18-21	5 9 7	9 8 7		#
21-24		9		

certainly rrequired a second hop, as did Israel, Georgia (4L) and Lebanon. (Incidentally, the 4X

	UR	YO	YL
	13 18 22 23 24 25 27 30 31	12 13 18 21 22 23 24 25 27 31	22 24 25 28 31
03-06			
06-09	9	9	
09-12	9	1 #	7
12-15	9 9 9 5	7 9 9 # 7 6	9
15-18	9 7 5 # 9	5 7	7 4
18-21	9 # 9 7 9	# 9 8	#
21-24			

Beacon, not reported. appears to have gone silent.) EX (Kyrgystan) looks to be more like 3-hop range. The total number of reports for this group was not very large, but at this point to season was still quite

	T9/YU/Z3/9A	5B	9H	TF
	5 12 13 14 17 18 20 21 23 24 25 27 28 31	24	9 24 25	27
03-06	7			
06-09	7 9		9	
09-12	9 9 6			
12-15	9 9 9 9 9			
15-18	9 # 9 9 7 8 5 6 9	7	9	
18-21	9 9 # 6	4	7	7
21-24	9 9 9			9

young. There were no reports of JY or SU activity in May. Northern Africa lies within single-hop

	CN	CT2	CT3/CU3	D4	EA8	EA9
	10 11 13 17 19 20 21 22 26 29 31	25 30	9 25 26 28 30 31	17 26	19 20 25 26	19 31
03-06						
06-09	6 9 9			3	7	#
09-12	7 9		#		9 5	
12-15	9 9		# 9 #			
15-18	2 5 9 7		# #	9	5	
18-21	9 7	# 7	9 # 2	2	9	9
21-24						

range of the UK and the CN beacons were regular visitors. Reports of CT3 and EA8 were also rather more frequent than we are used to. The relatively new Cape Verde beacon, D4C, which was a frequent visitor to CT and EA, was heard in the UK on two days. There appear to be no current 6m operators in D4 and, while TR8CA at least listened on the band, he is not known to have made any contacts during the month.

	EX	OD	4L	4X
	31	24 28	25	24 31
03-06				
06-09				
09-12		5	8	
12-15				5
15-18	#	5		7
18-21		5		7
21-24				

Westerly propagation patterns during the last few days of the month favoured the Caribbean. The results, though incomplete for reasons already rehearsed, also reflect the increase in activity in the region during recent years. By contrast, only three contacts could be traced between the UK and the United States, though it is possible that others lie inaccessible in the DX Summit archives or went unreported. Nevertheless, it looks as if, during this early phase of the season, more southerly latitudes had the advantage.

	FJ	FY	HI	KP4	V4	YV	8P
	27	28 29	27 28	27 28 30	29	27 31	27 28 29 31
03-06							
06-09							
09-12							
12-15							
15-18	8			#	7		# 7 9 2
18-21		2	7	4 3			5
21-24		3	8 9	7		5 #	3

which we have knowledge: G0KSC worked W1JJ at 1121 on the 25th, followed by G4IGO at 1226 and G0TSM reported K4SN at 2123 on the 31st.

Continental Europe, Africa and the Middle East

Auroral-related Propagation

No reports

Other Modes

As with the UK, most material for the 17th to the 30th was unfortunately unavailable and this severely limits what can be said. Contacts listed during that period mostly represent those DX QSOs that could be tracked down by way of the Council of Europe site. There was of course a far greater volume of bread and butter working within Europe during this period, but in practical terms they could not be retrieved. SV1DH' listing of 'special events' in his report at the end of this section; contains several interesting observations not listed elsewhere. The main body of his report also sheds some light on propagation during the 'missing days'.

For Costas, as for most continental colleagues, the band began coming to life about the 5th. Before that, reported contacts were mostly by ms or tropo. Sporadic-E reached full volume from about the 11th onwards, with the daily total of reports well into four figures.

The daily listings can only convey an impression of the extraordinary volume of activity, most of it inevitably of a routine nature. Just look at what is crammed into the listing for the 31st. The contrast between (say) late April and late May was truly remarkable. Very little that might be considered DX was worked to the east of Europe: UK8 worked into EA6 and EA8 on the 31st and EX8 worked into Ukraine on the same day. Some double-hop within Europe occurred, mainly along the Mediterranean.

Westerly directions were more productive, with known multihop openings as shown in the box below. There may well have been more that were not traced. Southern Europe was favoured with a couple of openings to the Caribbean for SV2 (but not SV1!) Openings did reach as far north as SP and OZ on the better days. The most northerly operator on the American side, VE1YX, though active throughout the period, reported only three European contacts in May.

The table does not take into account activity from CU2, CU3 and EA8, which seemed to be up on previous years.

Continental Europe<>Americas		
FG 3 days 26 27 31	KP2 1 day 31	VO 1 day 31
FJ 1 day 31	KP4 4 days 26 27 28 31	W 6 days 22 25 26
FM 1 day 31	PJ 2 days 18 31	27 30 31
FY 2 days 28 30	V4 3 days 27 30 31	YV 1 day 31
HI 3 days 27 28 29	VE 3 days 25 30 31	8P 3 days 27 29 31
		9Y 3 days 27 28 30

May 1 0602 HG1BVB>PA 0737 HG1BVB>PA 08-0900 DL>EA3(ms/iono) F>LX LX>DL(tr) 09-1000 DL>DL(tr) PA>ON UX0>UT7 IS0>DL(iono) CT>EB1(ms) IS0>PA,SP6 F>EB1(ms) DL>PA(tr) HG1BVB>PA 1139 EB7>EB1(ms) 1358 I4>DL,HA3(tr) 14-1500 S5>HA3(tr) S5>I2 I5>I4 EA6>PA(jt) 15-1600 EA3>EB1(ms) PA>F(ms) EB3>IS0 F>PA(jt) 16-1700 EA6IS0 1730-1 LA>OY(jt)

May 2 0626 YO2>SP9(jt) EA6>F(jt) HG1BVB>PA SP9>F(ms) 0702 F>SP9(jt) 0830 HG1BVB>HA8(tr) 1350 W7GJ>OZ1DJJ(eme -19dB) 1516-44 OH4>OZ(ms) DL>HA3 1610-33 OH4>SP9(ms) 18-1900 EA8>CT(tr) YU1>YT2 EA8>CN 2037 EA6>PA(jt)

May 3 0527-21 I1>EA3(jt) HB>EA3(jt) EA3>HB(ms) 06-0700 HG1BVB,DF0ANN,LX0SIX>OE5(tr) 07-0800 SV8>EA3(jt) EA6>9H(jt) OY,I5>ON(jt) 9H>PA(jt) EA2>EA3(jt) HG1BVB>PA 08-0900 I5>DL(Es) 1111 EA3SIX>EA5 12-1300 9A>S5 HG1BVB>PA LA>CT 15-1600 I1>IS0 OH8>OZ(jt) F>ON 1601-47 I3,IQ4AD>9A 17-1800 I3>9A ON>PA 1816-54 E7>9A YO2>DL

May 4 06-0700 EA3>9A(tr/ms) E7>EA3(es/ms) E7>EB1(ms),F,EA6(ms),PA,I4 EA1>EA3 EA6>SV2 9A>EA6 07-0800 E7>9H,OZ,DL,I1(ms/iono) SV2>EA3 9A>9H,I4 08-0900 F>ON EH3>EA6 E7>9A,DL(ms),I3,PA(ms/Es) EA2>9A(ms/iono) 09-1000 IS0>EA6 E7>OE6,YU7,OE1,HA1(tr),LX,I1(ms) ON>F IS0>SV2,I6,SV8 I5>9A ON>PA EA1>PA 9H>EA6(ms) SV1>IS0 I1,EA6>9A IS0>EA6 10-1100 IS0>DL(ms),I1 EA7>IS0 EA6>EA3

EA8>EA7 I5>IS0 11-1200 EA8,CT1ART>EA7 EA2>EA3 EA1>9A 12-1300 I5>EA3 I3>EA2
F>ON 1348 I5MXX>9A 1400 DL>9A 1839-53 CS1RLA>IT9 CT0WW>I9

May 5 0643 HG1BVB>PA 0727-9 OH4>SM7(ms) OH2>LY(ms) 08-0900 OH2>SM7(ms)
HA3>9A 09-1000 HG1BVB,HB9SIX,LX0SIX>DL 10-1100 LZ1SJ,LZ1JH,YO6>IS0(Es)
SV1SIX>I4 HG1BVB>SP6(tr) 9H1SIX>DL(Es),9A IS0,IT9>9A HA5,9H>HA7 IG9>9A
YO3JW>I0(Es) 9H>SP6 11-1200 SV1SIX,SV8>DL(Es) HG8BVB>IS0(Es) I7,LZ1JH>DL
YO2S>F YT5>F,I1 HG5>IS0(Es) IS0>HA6 SV8,I7>PA SP9>I8(Es) I0JX>HA6(Es) I8>SP6
LZ1SJ>DL(Es) IK5ZUL,I5MXX,EA3SIX>HA8 SV2>DL(Es),F SR2FHM>I8(Es) YU1>F,I2(Es)
SQ9>I0 9H>SM7 12-1300 F>ER1 T9>F I7>DL(Es) IT9,SP5,I1>ER1 SV8,I7(Es),I9>DL SV2>ON
I5>HA6(Es) I7,T9,IS0>LY 9H>SM7(jt/Es) I0JX>DL I1>HA8 LZ2CM>SQ1 OZ7IGY>LZ4 IT9>SM7
F>YU1 SV2,I7(Es)>PA I1>HA3 IT9,F>HA3(Es) F>HA8,HA3 SV8,I7>PA(Es) HB9SIX>YU1
I2>HA3(Es) EA3SIX>HA6(Es) DL>IT9 I0JX>SQ1 I8>DL(Es) DL>ER1 T9>LX SV2>DL I1>OM3
F>HA8 1633 CU3URA>EA7 1837-44 IQ4AD>9A EA8>EA3 1917 CU3URA>EA7

May 6 DL>PA OH2>LY(jt?) 08-0900 HG1BVB>PA HG5BVC>IS0 SV1SIX>SP6(Es)
HA6>9A,SP6 IS0>HA6(Es) 11-1200 DL,LX>PA PA>I5(ms) 15-1600 I3>IS0 HG1BVB>DL(tr) 16-
1700 EA3SIX>EA6(tr) 1809 LX0SIX>PA(tr) 1919-30 LA>LA(jt) HB0>DL 2155 LA>LA(jt)

May 7 0638-51 OH5RAC>SP6(iono) DL>OZ 0738 I1>LZ2(jt) 08-0900 HB0>DL,I1 09-1000
FX4SIX>CT(Es) CS1RLA>F LX0SIX>DL(tr/sc) HB9SIX>DL(tr) IZ1EPM>CT(Es) 10-1100 I1>CT
LX0SIX>PA DL>9A 16-1700 I0JX>CT CN8MC>9A(Es) CU3URA>EA5(Es) 17-1800 IS0>I1
S5>9A(jt) 9H>EA6,EA5,EA6 W7GJ>S57RR(eme) IT9>EA5 19-2000 9H,IT9>CT(Es)
IT9>EA4,EA5,EA7 OH6>LA(jt) LY>OH7(jt) 2009 OH2>OH7(jt/tr)

May 8 0521 OH7>YL(jt) 07-0800 LZ2>DL(jt),F(jt) HA6>DL(jt)(ms) HA6>F(jt) 1058 EA8>CT(ES)
11-1200 EA8>CT,EA7(Es),EA5 12-1300 HG1BVB,LX0SIX>PA 16-1700 OZ>SM0(jt)
LY>OH8(jt) I4>DL(tr),HA1 17-1800 S5>I1(tr) I0>S5(tr) LA,SM6>OZ OZ>DL SP9>HA6(ms)
SK6,DL>OZ SM6,LX>DL OH6>SM2(tr) OH0>OH1,SM1,OH7 OH6>SK2 OZ>DL S5>I3
EA8>EB1(Es) HA1>S5 18-1900 SM7>DL(tr) OZ>DL HA1>I4 SM3>SK2 SM0>SP9 OZ>OH7
EA8>EA1(Es) PA>LA(ms) OZ>S5 19-2000 T7>S5 OH1>OH4,OH3 OH0>OH7,SK2 OZ>DL
SK6>OZ,SM3 20-2100 SM6>DL OH3>SP9(ms) OY3JE>S57RR(eme -22dB) OH6>OZ(jt)
OH4>SP9(ms) OH3>SM7(jt) LA>SM6 OZ>OH3(jt) W7GJ>PE1BTX(eme -24) 21-2200
W7GJ>S57RR(-16) I8>F(jt) 2223 W7GJ>OK1FD(eme)

May 9 0750 OY6BEC>OZ(ms) 0852 I1>HA2(jt) 09-1000 F,ON>HA2(jt) EA3>DL(jt) 10-1100
OM3>SM7(jt) I0JX>CT(Es) 11-1200 I4>9A DL>IS0 SP1>SM7(jt) I1>IS0 IW3FZQ>CT 12-1300
S55ZRS>CT(Es) IS0>PA SV8>HB,I2 IS0>PA,DL(Es) 13-1400 IS0>DL(ms) CU3>CT(Es) DL>PA
LZ2>DL 14-1500 LZ2>DL,HB,ON F>I5 LZ0SIX>PA DL>DL(bs) F>DL
SV8>OZ,DL,HB(Es),F,SV3 IG9>PA YT1>PA,EA5(Es) TA2>DL(Es) YU1>F(Es),4X
HG7BVA>EA5(Es) 15-1600 SV8,LZ0SIX>F(Es) IG9>DL F,EA3SIX>9A TA2>DL SP3>IS0
IS0>DL(Es) F>YU1 YO3,PA>4X YU1>EA5 EA5>OM7,I6 9A>EA5 F>YO3,OM7,OM3
IG9>OX(Es) CT0SIX>IT9(Es) LZ0SIX,LZ3,LZ2,UR5>4X CT1ART>EA7 EA3SIX>SP6(Es)
I1>UU6 SV5>EA7 IT9>F,EA7 EA5>YU1 SV8>PA SV1SIX>EA6(Es) IT9>F SV8>OZ,EA6(Es)
16-1700 4X,ON>YO3 LZ2>4X EA6,EB1>E7 EA4Q>T9 SV3,9H,I7,I9,I8>F(Es) SV8>DL(Es)
YU1EO>EA5(Es) EA6>SV1,OK2 9A0BHH>EA6 9H>DL,EA7 OZ>IT9
YO5,9A,OK2,HA8,HA6,YU1EO,9H>EA6 SV3>EA3 E7>ON OD5SIX>EA6(Es) I0JX>SQ1
EA3SIX>T9 EA6>SV9 IH9>CT I4>SV9 9H>ON,F LZ2>EA2 I7>F(Es) T9>EA5 SV1SIX>EA3,F
I9>CN 17-1800 US0>PA 9H>OM7 SV9>EA3,EA6 HG7BVA>EA6 IT9>EA5 ON>US0HA1>9A
EA5>HA8 SV9>SV2 OD5SIX>EA6 18-1900 RA7>9A 19-2000 I8,OH2>PA(jt) 21-2200
W7GJ>OZ1DJJ(eme -24dB) W7GJ>S57RR(eme -290dB) 22-2300 W1JJ>PA3GCV(eme -19)
W1JJ>PC7M(-24) W1JJ>S57RR(-24dB) 2300 W7GJ>S57RR(-24dB)

May 10 0606-41 OK2>EA3(jt) OH3>HB(ms) 0733 I8>OZ 08-0900 I7>SP9(ms) I6>I0 HB0>DL LY>I0(Es) HB>LZ3(jt) CT>I1 HA3>I2(jt) 10-1100 CT>I2(Es) CT0SIX>DL I8>ON CT1ART>F,PA(Es) CT>HB HA3>LZ3,LZ2(jt) CS1RLA>PA,F EA5,EA6,CT>IS0 11-1200 CT>EA1,PA,OZ EA6>IS0 EA9>EA7 UU5SIX>I4 13-1400 LZ2,HA3>ON(ms) 1450-7 OZ>DL 1651 OH3>SP9(jt) 1742-57 SM5>I0 OY6BEC>F(Es) 20-2100 SP9>SM7,SM0(jt) OH6>SP9(jt) W67GJ>SV8(eme -21) 21-2200 S5>SM7,SV8,YP2(jt) W7GJ>S57RR(eme -23) 22=-2300 W7GJ>OZ1DJJ(eme -24) 2250 K6QXY>S57RR(eme -22) 2334 W7GJ>OY3JE(eme -23)

May 11 0026 W1JJ>PC7M(eme -21) 06-0700 I4>DL,S5,EB3,OE7 I1>SP9(ms) ON>DL 07-0800 I4>IS0(ms) ON>DL(tr) I4>DL EA6>SV2 F>ON.EA2 09-1000 F>OZ(jt) I1>IS0 OE5>DL SM0>PA(jt) US6>OE5(Es) LX>DL 10-1100 DL>UR3 HA6>PA(jt) UX2>I6 UR3>DL SM4>LZ1(Es) UT5>UR3 YT1,UT5>DL LZ4>YO3 SM2>YT1,YO2,OM7(Es) S5>9A UX6>DL(Es) F>DL UT7>OK1 HA2>HA6(ms) 11-1200 EA4>EA5 SM2,OH2,OH6,OH8>OK1 SV1SIX>SP6 OH5RAC>ON OH6>DL DL>OH2 HG1BVB>OY 12-1300 9A>OZ HG1BVB>DL(tr) 13-1400 HB9SIX>DL(tr) S5>9A EA1>9A DL,EA5,EA3SIX(Es)>DL 14-1500 DF0ANN>EA5(Es) EA1,EA2>9A I5>OH2 EA4,EA7,F,CT(Es)>DL EA2>S5 OE5>OE9,EA4 EB2>S5 OH2>OH4 EA3>EA6,DL I3>EA1 CS1RLA,EA6>PA HB9SIX>CT(Es) CN8MC,EA7>PA EA2>S5(Es) EA1>I0 EA6>DL(Es),OZ EA4>SP9 EA1>I0 CS1RLA,EA7>F CT0SIX,EA7>PA EA1>E7 EA1>EA3,I0(Es) EA8>CT,EA6(Es) DL>DL(Es) 15-1600 EA7, CT1ART,CS1RLA>F,DL F>ON,CT CT,EA5>DL EA6>OZ,DL,EH3 EA1>I3 LX0SIX>CT(Es) EA1>EA3(Es) CT>PA,HB,I1,I3 EA7,CT>PA F>I0,EA7,EA4 EA4>SP6,DL EA1>I3,I5,F,LZ2,I1 CT0SIX>OM3 S5>9A,CT LX>ON ZB>EA7 EA2>I2 16-1700 EA5>DL,OZ EA1>E7 EA6,LX0SIX,S5>DL EA4>OK1,F,DL EA7,EA4Q>DL,OK1 S5>PA,CT CT>F,DL F>F,DL EA4>PA EA7>OK1,DL,OK1,ON CS1RLA,CT1ART>PA CT>9A(Es),S5 EA1>S5 EA6>EA3 EA9IB>DL F>PA(tr) DL>DL 1825 UT7>4X 2311 W7GJ>OK1DO(eme)

May 12 0632 F>EB1(ms) 07-0800 EA3>F(ms) SV1>ON,F,DL(Es),OE5(Es) LZ2>I1 LX>ON,PA,S5 LZ0SIX>F(Es) DL>SV3 SV1SIX>OE5(Es) LZ1SJ,LZ2CM>F(Es) SV3>PA(Es) 4N1ZNI>I4 SV2>DL IS0>HA8 08-0900 9H1SIX>OE5(Es) I0,IS0>HA8(Es) OE5,OZ>DL HA8>IT9 I7,SV1>DL OY>HB(ms+es) LZ2>F DL>PA HA3>F(ms) DL>DL(iono) SV1SIX>F 10-1100 Z3>LZ2 DL>DL HB9SIX,DF0ANN,LX0SIX,F(Es)>CT 12-1300 F>HB(tr) OZ7IGY(tr),LX0SIX(tr),CT0SIX(Es),LY0SIX>PA CT0SIX>DL(Es) ES2>DL DL>OH1 SR9FHA>EA3 HA3>LA(Es) OH1>OE9(Es) 13-1400 LZ1SJ,OH5,UU5SIX,EA6,ES1,ES6,ES2,9H,OH3(Es),I8,OZ,OH7,F(Es),YO8,LX,SV2,SV3(Es)>D L LZ0SIX>OZ(Es),F HA8>EA3,YO5,F(Es) I0>LY SM2,OH1>OE5(Es) SR5>I7 SV2>PA,SM6,ON(Es) OE5,YT1>SK2 HB,F>HA8 9H,I8,I7>OZ E7>9A SP3>EA6 OH3>OM7 UT4,SP5>EA3 SK3>HA6(ms) OH3>HA6(Es) UR5(Es),OH9SIX>OE5 LZ0SIX,YO5>F YO4>PA,HB,F YT1,I0>SQ1 UT4>LA ES2>I8 OZ>I7,9H,I8 LZ0SIX(Es),UR8,E7,YT1,UT2,YO8,SV2>PA F>YU1,YO8,SP8(Es) ES7>9A,YU1 SP5,UR5>I5,OK1 YO3KWJ>OE5(Es) HB>YO2 SV2>SK2,ON(Es),PA ON>YU1 9H>SM6 14-1500 SV2>DL,PA(Es),OH1 DB0HGW>I8 YO8,I0,SQ1>SQ1 SP8>EA6 YO2,LZ1,YO5,HA8,SP5>F I7,UT7,LX>DL LX,OH7,OH1>YU1 9H>IT9 LY0SIX>YO2 SV3>I0 F>HA8 DL>I7 SV8,YO5>PA OK1>UT7 UU5,YO8>OZ,SK0(Es) HA8>OH7 LZ0SIX>PA,SM3 LZ1,YO4>SK0 YO3JW,I0JX>SM4 UT7>EA3,SP2 OH7>YO2 UR5>SP2(Es) OH5,OH1>YU1 UU5SIX>OZ OZ,DL(Es)>RZ6 SR5>HB YO2>9A 15-1600 LZ2,HA3,HA8,9A,US3,YO2,UT7,YU1,OM3>DL PA>OM7(Es) HA6,HA8,YO2,LZ0SIX,LZ3,LZ2,OM7>PA PA>OM7(Es),HA6 9A,UY7>OZ(Es) T3>UY7 HB>F,LY YU1EO>OH1 UU5SIX>SM7(ES) SR5>HB YO7>SM0 LY>F,I5 I4>SQ1 SM7>I5 OZ>9A YO8>F,ES6 LZ2>ES6,OH7 UT5>SM0 UT5>SQ1 OM3>HA6 YO3>OH7 16-1700 UT7>DL DL>RX3 ES4>YO3 US7>SM0 UR8>SM7 UT6>LY UR5>SM3 I5,9A>I0 17-1800 LZ2>YP2 S5>RX3(Es) UR5>DL(Es) DL>PA YL2>LZ2 S5>9A 18-1900 LY0SIX,ES0SIX>LZ2 HA1,S5(Es)>RX3 OD5SIX>SV8 SM7>LZ5 UU5SIX>DL(Es) UT8>9A UR3>OE5(Es) I6>9A(tr) OZ>DL 19-2000 4X>YU1,LZ4 UY5>DL UT7>9A,I3,OE8,OE6 S5>I4 US3>9A 2031 DL>OZ

May 13 0557 DL>EB1(ms) 06-0700 OE5>EB1(ms) CT1ART>ZB EA7>EB1(ms) 0947 SV7>I0
UT7>OH5 10-1100 SV1SIX>OM7 SV1,SV2>HA6 LY1SIX>I4 US3>SD5 EA6>OZ UX7>SK2(Es)
EA6>OZ(Es) UR3>SM2 UR3>OH2 11-1200 I7>F(Es),EA7,PA,DL EA4Q>OE5(Es) I4,EA7>9A
9H,IT9>DL CT>EA7 F>SV9,DL EA3SIX>OM7 EB2>I8,9A SVC1>I1 LZ2CM,HF7BVA,YU1EO>F
I0JX>CT 12-1300 SV1SIX,IT9,F,LZ2,I6,I7,I0ICR,EA2B,EA1,EA4,CT,EA5,EA7,EA9,F,9H>DL(Es)
I0,I4>CT(Es) EA3>SQ9,SP4,SP5,PA SP5,SM7>IT9 9H>OM7 S5>EA2,EA1 9A>ON,EA1,EA4,F
IT9>OZ UR3>OH7(Es) EA1,EA2>I3 I0JX,EA3,I6>OZ OH5,UT7,SM2>SK2
DL,I4,HA6,YU1,OZ,HG1BVB,S5,OE5>F(Es) I3,I6,DL>EA1 9H>SM7 SM1>9H IS0>SP5 13-1400
F,EA4Q,EA2,9H,EA1,CT1ART,9H,SV8(Es)>DL HA1,E7,DL,HA6,OK2(Es),9A,F>F
ON>EA4,S5,YU1,EA5 F>EA7 UT5>OH7 EA2>SM6 DL>EA4 F,I1,EA6,IS0,HA6>OM7
I4,EA6>SP5 DL>I8,I7 SP5,SP9,IS0>OH7(Es) CT1ART>OZ EB1>S5 9A,EB2,EA6,EA9>PA
EA1>HA1 UT4>I2 IS0>SQ1,HA6 S5>F I0,EA4,YT1>ON EA1,CT0SIX>OE5 14-1500 E7>PA
F(Es),DL,HA1,ON YT1>ON 9A>OZ EA1>HB I5>SQ3 YO3>HA1 EA5,EA2
EA1,LZ2,SM0,SM4,OH1,SM5,EA2,SM3,LA,EA6,SM0>DL SR2>SV2 EA2>SP5,OZ SP8>EA1
I3,HB9SIX>LA F>OM7,OH2,SP5,SP2 HA8,SP2,SP1,OK1,PA,YO8>F OZ,SM5>I0 I6>OH7
SV2>SV9,PA I5,9A>PA DL>YO3,YO8 15-1600 OH2,OZ,SM0,IQ4AD,I8,E7,F,EA4,EA1>DL
EA6,E7,DL>PA DL>YO8,HA5,EA1,HB,I8,F SV2>SP5 EA2>SQ1,OZ SP8,DL,SK0,OM7>F
PA>EA6 HA3,I2>LA ON>HA5,HA3,DL,EA1 OZ>I5,EA4 I3,I4>SK2 16-1700
F,EA1,EA2,EA8,ON>DL F,EA1,HB,IS0>LA HB>OZ F>SK0,SP3 **S9SIX>TR8CA**
OZ7IGY,SM6,SM7>F SM7>EA1 18-1900 I4>I0(tr) UU5SIX>DL 19-2000 UT7>DL,OK1,9A,OE5
UU5SIX>OE5 CT1ART>EA7 PA,LZ1SJ,YO3KWJ>DL US6>9A LZ0SIX>PA PA>Z3 UR3>I4 20-
2100 HB1BVB>OE5(tr) SR3>EA3 LZ1SJ>SM7 SM7>SM6 LZ1JH,SV1SIX,9H1SIX>DL
LZ9SIX>PA,EA3 SV2>PA,OZ PA>Z3 21-2200 SV8>LA,SV0 PA>I8 EA3>YO2(Es)
YU1EO,SR9FHA,LZ2,SV2>EA3 LX0SIX>PA PA>9H IS0>DL(Es) LZ2,SP9,9A>IS0 22-2300
SR8FHA,HG1BVB>F HG7BVA>EA3,F I0JX>DL

May 14 06-0700 I0JX,IW3FZQ>PA 07-0800 EA7>EA1(ms) 08-0900 OZ7IGY>EA1(ms)
CT1ART>EA7 SV1SIX>SP6 09-1000 PA>DL UU5SIX>I5 OM5>SP9,HA6 10-1100 PA>DL(tr)
OH5RC>9A 11-1200 LY0SIX,OZ>F OH2>9A 9A>OH7,SK2 EA2>EA1 OH7,OH5RAC>OE5
OH7>SQ9 I4>SM6 SP9>SK2 IK5ZUL>CT OH1>OM7 12-1300 OE6>OZ HA3>SK2 LY0SIX>PA
9A,OM5>OZ OH1,SK2>HA6(Es),OM7 I2>SM5 OK1,SP3>OH7
SQ9,OM7,9A,HA3,OK1,DL,SP5,HA6>SK2 HA3,OM7>OH6 HA3>HA7 LA>DL(Es)
OH1>OH6,HA2,DL LX0SIX,HG1BVA,SQ9>OH1 YL2>PA,DL SM5>F SM4>OH7,HA6 I1>IS0
SM1>PA,F LY0SIX>DL 13-1400 SK2,OZ>DL(Es) SP4,ES0SIX>PA(Es) SM4>HA6(Es)
OH5RAC,OH3,ES7>F SK2>I4,OK2 OH5>PA OH7>OE5(Es) DL>OH1 LA>OK1 1505-10 OZ>9H
EA3SIX>EA6(tr) 16-1700 PA>DL F>EA2 17-1800 DL>OZ(tr) CN8MC,EA8>CU3 18-1900
EA8>EA6(Es),I5,EA7,CT,EA3,EA4 I0JX>CT(Es) **D4C**>CT1HZE,EA6SX HA1>9A CN8MC>EA3
SV8>SV2 JW5SIX,JW9SIX>OH7 EA5>EA6 19-2000 EA8>EA4,EA6,EA7 **D4C**>EA6SX
HG1BVB>DL(tr) 20-2100 JW7SIX>SM5 OH3>HA6(ms),LA(jt) SM7>HA6(ms)

May 15 08-0900 LZ2>YO2(jt) LZ2,LZ1>DL 09-1000 SV1SIX>DL(Es) OD5SIX>YU1 YU7>YU1
10-1100 EA3SIX>EA8(Es) SV2>I5,I1,SV9 YT1>PA SV5>I5 SV9>S5(Es) OH7>YO8 11-1200
SV1>DL,S5,OE5,9A,OH7,F(Es) LZ1JH,SV2>F(Es) SV9>OE5(Es),OH7,DL(Es),S5 SV5>S5(Es)
LZ1>I4 SV8>SV3 DL>IT9 12-1300 SV2>F,DL,PA SV1>SP6,DL,PA,ON SV9,SV8>DL
SR3FHB,9H,SP4>IT9,9H LZ0SIX>F SV8>PA,OZ OZ>IS0 UT4>I0 13-1400 SP7>9H SV8>OZ
SV2>PA YO5>IS0 SV1>OK1 LZ1SJ>F UU5SIX>OH7(Es) 1541 SP7>EA7 16-1700 9A>S5
EA3SIX>EA6(tr) 17-1800 DL>HA1 EA6>EA5 18-1900 CN>9A EA3SIX>EA5 S5>9A EA8>I0
1929 I5MXX>9A 20-2100 I8>SV2

May 16 06-0700 HG1BVB>HA8 CT1ART>EA7 F>F 09-1000 EA6>EA1(ms) DL>DL(iono)
DL>PA 10-1100 F>F 11-1200 EA6>PA,I1,SV3,DL 12-1300 F>F 14-1500 F>F HB9SIX>DL(tr)
15-1600 OE>I9 SV9>OZ DL>DL SV5SIX>EA3 Z3>EA6(Es) I0>SV3 16-1700 LZ0SIX>DL(Es)

EA6,I0>SV3 LZ1,Z3>EA6(Es) SV3>DL(Es),I5,EA5(Es) SV9>I5,I1,I0,OZ SV5SIX>EA6 17-1800
EA6>EA7,S5 EA8>EA5(Es) SV3>EA3 LZ1>PA

May 17 0012 D4C>CU3EQ 0653 OZ7IGY>PA(ms) 0716-28 DL>IS0,PA 08-0900
LX0SIX,HA3UU>DL 09-1000 HA3>SM7,I2(jt) OK1>HA6(tr) HG1BVB>PA EA7>EA1(ms)
SV5SIX>IS0 EA5>EA1(ms) IS0>DL(iono/ms) 10-1100 EA1>EA1(ms) 4X>SV2,IS0 11-1200
5B,4X>IS0 I5>I0 SV1SIX>EA3 5B,IS0>SV3 5B,SV5>9H SV9>SV2,I0 5B>I7 Z3,SV2>EA6
SV5,5B,SV8,OD5SIX>IT9 SV2>EA3 16-1700 D4C>CT1HZE 17-1800 D4C>EI2IP

May 18 12-1300 D4C>CU2JT 13-1400 D4C>CT1HZE,CU2JT 1859 D4C>CT1HZE 1915
D4C>EA8AVI 2045 PJ4NX>KE4WBO

May 19

May 20

May 21

May 22 21-2200 9Y4D>PA2DB,PA0O

May 23

May 24 19-2000 8P9TS>DL1MAX,CU3EQ 20-2100 8P9TS>CU3EQ 2117 D4C>EA5EF

May 25 1158 D4C>CT1HZE 1313 D4C>CT/G3SED

May 26 18-1900 NP4A>EA1ASG,EA1HF,CT1HZE D4C>CU3EQ 19-2000
NP4A>EA1EXV,CU3EQ,EA8BPX,EA7ZY FG5GP>CT1HZE

May 27 11-1200 1541 SP6GWB>HI3TEJ
NP4A>IZ5EKV,IW1AZJ,IZ5CML,DK1MAX,F5SXD,IZ5CML,IZ0KEM,EA6NB,EA3LL 12-1300
NP4A>9A6R,IW2NIR14-1500 HI3TEJ>LA5YJ 15-1600 HI3TEJ>DK1MAX,ON4GG,SP3RNZ 16-
1700 FG5GP>CU2JT,DL2NO
V44KAI>DK1MAX,SP5EWY,EA6SX,DL2NO,DL2FAG,CT1HZE,OZ1DJJ,PE1BTX,SM6CMU,SD
5D,PA7TA 1704 FG5GP>CU3EQ 18-1900 D4C>CU3EQ 19-2000 8P9TS>OZ3K 20-2100
TI7/N5B>HI3TEJ 21-2200 D4C>CU3EQ 9Y4D>PA2M,PA0O FG5GHP>PA2M 22-2300
FG5FP>OZ3K HI3TEJ>PA2M,I4AVG,CU3EQ,PE1CZG 9Y4D>CU3EQ,OZ3K
8P9TS>PA2M,PA2V,OZ3K.PA0O,SM6CMU 2308 NP4A>OZ3K

May 28 1707 CU3URA>KE4WBO18-1900 NP4A>CU3EQ,EA7KW,CT1HZE,EA8YT 19-2000
NP4A>PA3C,PA0O HI3TEJ>CU3EQ,PE1MZS,PA2M D4C>EA3AKY 20-2100
NP4A>EA8BPX,CT1EPC 21-2000 NP4A>CN8KD,OZ3K
HI3TEJ>CN8KD,PA3GCV,EI2IP,PE1CZG,DL3WJ,DH6HL,OZ3K,F5PPO,EA8BPX,SP3RNZ,DJ6
YX,PA0O 9Y4D>CU3EQ 2202 FY1FL>EI2IP

May 29 0926 D4C>DK1MAX 1256 8P9TS>CT1FMX 1707 HI3TEJ>EA8/G8BCG1919
FG5GP>EA8BPX

May 30 15-1600 V44KAI>F8DBF,F6HRP,CT1HZE,EA6SX,HA1FV,HA1YA,DH6JL,PA0WRS 16-
1700 V44KAI>DH6JL,HA8JP 18-1900 D4C>CT1HZE FY7THF>PA3CNX 20-2100
V44KAI>CT1HZE,CT1FFU,F6HRP 9Y4D>CT1HZE 2213 8P9TS>CT1FFU

May 31 06-0700 YO3>LZ4 CT0SIX>I1,I2 SV1SIX>I2
IK4ZUL,I0JX,LX0SIX,ON0SIX,DF0ANN,UU5SIX,IS0GQX>CT(Es) EA6>EA3 CT-0SIX>OE5

SV5SIX>I2 UR>SV2 I0JX>UR 07-0800 OY6BEC>PA HG1BVB>UR UR>OZ CT>PA CN>I2
I5MXX>CT IS0GQX>EA7 SV9>HB IW3FZQ,IQ4AD>CT CT>I0,I2,EA7 CN8MC>OE5
IS0,OH1,SM1,EA3,OH0>LZ4 EA5,EA3>EA6 EA7>IT9 ZC4>I7 F>ON I7,UR>DL EA9>OE5,HB
SV1SIX,SV5,LZ1>F SV5SIX>F,EA3 SV1,SV2>EA3 4X>I2,I4,SM3,OH1,OH2,I0,F IS0>YU1
Z3>PA 08-0900 EA9>9H LZ1>PA OD5SIX>CN SV8>EA3
IT9>DL,I1,OE5,OZ,SP2,SP6,CN,S5,9A,OM3 CN>I1 IS0>SP6 SV1SIX>4X EA3>LZ4
4L3Y>YO8 EA3>LY EA9>9H CT>HB,I8 IS0>LY 9H,4X>I7 9H>OE5 4X>9A,HB,EA6,EA1,OZ
UU5SIX>LY,DL OZ>YO8 SV8>SV1 9H,YU1,LZ1>F YO8,LZ2>EA6 I1>OH5,LA IT9>YU1
UR,9H>F UR,UK8MM>EA6 LZ4,SV9>EA3 HA3,UR>EA5 I0>4X CN>SV8 SV9>OE5,DL
CU3URA,LZ1SJ>CT 5B4CY>EA3 IT9>CT,YO6 EA9>S5 09-1000 4X,5B4CY,ZC4>CT
9H>DL,SP6 SV8>HB,9A,IT9,I1,I6 I7,IT9>UR CN,I4>9A EA6SX>UK8OM(MN51),YO8 EA5>SV2
OK1>IT9 IT9,CT,CN,ER1SIX>DL LX0SIX>9H IS0SIX>I7 ER3>IT9 CN,9H>HB 9H,EA3>LZ4
UR>I2 LX0SIX>I7 ZC4>SV8,EA7,IT9 LZ5>SM0 CT,RA3>EA7 9A>EA5 EA3>YU1
CN,CT0SIX,I7,LZ1,CU3URA,SV5SIX>F IS0>HA6 CT>I5 CN>I1 LZ1>SM0 9H,CN>HB ER3>PA
SM0,EA6,UT6>YU1 10-1100 CT>I5 LZ1,LZ3>SM7 YO8>SM4 SP2>EA2 ZC4>9A,EA7 I7>HB
ZB>I2 CU3>EA1 HA8,YT2,CT,9A>EA6 CU3URA>LZ1 LZ4>SM2 CT0SIX>I8 OM5>9A(tr)
ZB,EA7>DL ON,PA>IW9 EA2,EA6,EA3SIX>YU1 HB>CT UR>PA,DL 9A>EA7 IZ5ZUL>CT
ER1SIX>OZ IK5ZUL,IZ1EPM,I5MXX,IW3FZQ,IQ4AD,9A>EA7 SV5SIX,I2,EA3SIX>CT HB>CN
EA8>EA1 LY,EA5,OH3,ZB>9A SM7,IT9>SM4 LZ1,ZB>F YO3,YO7>SM7 DL>IW9 LZ2>LA 11-
1200 KP4EIT>EA6DX,EA7KW LZ1>CU3 LZ2>LA LY>OE3 EA3,EA6>CT 9A>OH6 ES0SIX>I8
UY5>PA ZB>F,PA I1,F>EA7 EA6>S5,SP6,OH7,OK1,LZ5,CT,OE,CN,9A,S5 CS1RLA>9A
OH0>I7 E7,9A,HA6>OH7,SM2 EA1>I7 8P9TS,VO1ZA>CT1HZE HA7>SV5 YU2,E7,9A>EA4
F,ON0SIX>I8 CU3>EA7,9A,ZB,EA1 F,SV1>I8 EA3,OH3>S5 SV1,ZB>EA7 OY6BEC>OZ
SV5>SP8 S5,OE6,HA8>EA5 HA8,9A>OH7 SM4,9A>SM0 CT,EH3>9A ER3SIX>SV1 CN>DL,F
Z3>PA EA5>S5 12-1300 CN>OE1,OK2 EH5,OH7>HA6 3A>SV1 CT>IS0 UU5SIX>I8 4X>SM0
I6>ON,DL,F(Es) HG1BVB,E7,SP8,CN8MC>F ON0SIX>CT DL,S5>EA5 EA4Q,F>UT7
EA3>HA1,S5,SV2 LZ1>Z3 YT8>RX3,I8 9A,CU3,S5>EA1 FJ5DX>EA3AKY
8P9TS>EA1SG,EA6SX FG5FP>CT1EPC,EA3AKY,F1VS,EA6DX NP4A>CT1EPC
IS0,EA3SIX,EA6>DL CT>EA1,SP5,F 9A>EA4,EA3 EA1>SP9,S5 SP7>SV1 UR,F>HA1
EA8>EA2 IS0>PA I0JX,OK2>UT7 EA6,EA9>DL CU3>EA8,CT E7,SP2>F OH5>OE3
IS0>SM4,PA CU3URA,9A>9A SP9>OH8 EA6>OE3 OK1,9A,S5>EA3 OM5>EA4 F,EA6>I7 13-
1400 CU2,EA7,EA5>S5 EA1>SP6,9A
8P9TS>CT1FFU,I6BQI,EA3LL,9A5ST,EA3AKY,IW5DHN,EC1DMY,CT1ILT,E74EBL,DL5MAE,9
A7V,F8BBL EA1,EA2,EA4Q,EA5,EA7,F,IS0,IW9,9H>DL EA6>OE3,DL,HA9,OZ
FJ5DX>EA6DX,CT1FJC FG5GP>F8BBL,EA7ZY,EA7KW,DL5MAE,9A7V EA4Q,F>9A
SR9>SM2 4X4DK>CU3EQ 9A,E7>EA5 EA1,EA6>HA1 HA8,SM6,DL,OZ,IW9,SP3,YU2>F
IW9>OH8,OE3,F OY6BEC,F(Es)>PA HG1BVB>OH8 EA1,EA2,EA3,E7>S5 SM2>SP9
E7,9A>EA4 CU3>OE1 EA6,EA5>HA1 SM2>SP5 FG5GP>EA6DX EA3,EA5>SM7 HA7>EA7
VO1KVT>EA9BPX OE3>IW9,EA6 CU3URA>EA3 HA0>SK2 EA5>OM7 EA3>HA8 VO1ZA>
EA8/G8BCG 14-1500 OZ7IGY,LY,I0,LX>F IS0>PA,DL CT,EA6>EA7 9A>EA1 SM6,S5>EA1
8P9TS>EA1DDU,F1VS,9A7V,F6FHP,YU7EF,F5DE 4X>ON,DL EA5>OZ EI0SIX>HA1,9A
EA3>SM4 F>CN FJ5DX>F6FHP,CN8LI YY5LI>F6FHP FM5AN>EA1BLX,ON4IQ 15-1600
CU7>EA8 E7>9A V44KAI>EA1BLX SM4>SM0 PJ2BVU>F6FHP FG5GP>ON4IQ,F6FHP,DJ3LE
I0JX>EA6(tr) EA5>EA6,EA3 8P9TS>PA3GDY,PA2DB,PF7M,PC7M,PC5C
KP2A,FJ5DX>CT1HZE FM5AN>PC7M OH9SIX>UR 16-1700 8P9TS>PA00 FG5GP>CT1HZE
EA2>EA1 DL>OH8,LA LA>9A,DL OH0SIX>DL HG7BVA,IW3FZQ>LA HB>OH7 F>YL
LA>HA1,OK1 17-1800 F,HA1>OH7 LA,SM0>OM5 PA,LY,OZ>TA7 LX,HB,HA1,OK1,OK2>LA
OY>OK2 OH5RAC,OH6,LY,LA>F OH3,OH6>I1 UR>SM2,OH8,OK1,F,OZ,LX LA,YL>YU1
LA>YO5,HA7,HA1,S5,SP6 UR,OH5,OH1,OH7,OH2,OH0,SM1,SM2,YO3,YO9,OY6BEC>DL
OH0>OE6 SM4,LY>ON OH1>HB OY>OM3,SP6 OE5>OH7 OH9SIX>SP8
LY0SIX,YL,ES7,ES6>9A 8P9TS>CU2JT OH6>OK1 UN7QX>EX8MLE OH9SIX>OK2 SP2>SV2
TA7>OM3 HG1BVB>OH8 HA8>LA OZ7IGY>YO2 FJ5DX>CU3WQ OH6>OE7 SR9FHA>EA3
18-1900 OY6BEC>SP6,OE5 8P9TS>CU3EQ,CU2JT UR>I4,HB,PA,I1 OM3>EA3 YO9>DL,OZ

OH0>I0 LA>9A,F,HA8,HA1 YL,ES6,SM7,SM6,SM4,LY,SP5>9A TA7>HA1,PA,DL
HB,DL,LX>SK2 SP3,YO3,YO8,YO9,OH8,OH6,LZ2,OH0SIX,LA,OY,YU7,ON(tr)>DL
EA3SIX>HA7 SV1SIXC,HB>UR KP4EIT>CU3EQ,EA1CCM,EA8YT
FJ5DX>CT1ILT,SP4MPB,CT1FMX SM6>I8 YT2,UR,T9,LZ2,HA8,YO3,YO9>PA
OY>HA1,OE5,HA4,HA8,SV2 LX>OH7 SV2>SP2 LZ2>HB IS0>SM1LY,SR2FHM>EA3
KP2BH>CU2JT SM6>YU1,I8 LA>I2,I0 ON>YO2,YO5 YO3>OK1 FM5AN,PJ2BVU>CU2JT
HA6>OM7 OZ7IGY>SV2 V44KAJ>CT1ILT,CU3EQ,HA6NL ER3>HB I0>SM1 ES0SIX>F
TB7>UR I7>SM5 T9>SP3 YO8>ON HI3TEJ>CU3EQ 19-2000 I0JX>LA YL>I7 SV2>DL,OZ,PA
9A,F,YU1,EA3>SP6 T9>SP3,SP6,DL,OZ YO5>DL,ON SP8>HB LZ2>ON
LX>YO2,YO5,HA7,HA6 PA>9A,LZ2,YU1,HA8,LZ1,SV2,YO7,DL,YO2 I7>SM7,OZ
UR,SP8,HA6>F YO2>HA7 UR,SP7>I2 9A>SP3,SP6,SP2,OZ SV2,YO3,ER3,HA8,LZ2>DL
LY>I8,IS0,EA6 HA8>DL,LX I4,EA6,SP2>HA1 UR>HB EA6>LY I1>SP6 KP2BH>EA8BPX 20-
2100 NP3CW>EA8BPX LX>YO3 PA>9A EA6>SP3 EA3SIX>SP6 DL>UR SK6,OZ7IGY>I6
T9>PA SR3FHB,SP5>EA3 OE7>E7 YR3>ON I5>SP6 8P9TS>IW0FFK OH4>LA,PA 21-2200
CU3URA,DL,OZ>EA3 PA,S5,OZ,DL>EA6 JW9SIX>OY 22-2300 EA4Q,EA5>DL HB9SIX>DL
S5,OE1,DL>EA6 EA4Q>OZ OZ7IGY>EA5 23-2400 EA4Q>PA

50MHz PROPAGATION REPORT FOR MAY 2008 BY SV1DH

1. Data for 23 days, 23-30 INET data only.
2. Relatively good days on: 18,24,25,31
3. 48 MHz AF video (9L+3C) on: NIL
4. 55 MHz AF video (5N) on: NIL

5.	"	CN	on: 24,31 (2E)	(R=6%)
6.	"	TA	on: 23,25,31	
7.	"	4X	on: 17,19,20,31	(R=12%)
8.	"	OD	on: 20,27	
9.	"	CT	on: 28,29 (2E)	(R=6%)
10.	"	EA	on: 9,12,17,18,24,25,28,31	(R=26%)
11.	"	EA6	on: 9,17,18,19,24,25,28,29	
12.	"	IS	on: 24,29	(R=6%)
13.	"	9H	on: 29	
14.	"	I	on: 5,13,17,18,19,23,26,27,28,31	(R=32%)
15.	"	F	on: 9,12,18,24,28,31	
16.	"	3A	on: 31	
17.	"	HB	on: 24	
18.	"	OE	on: 12,23,26-28,31	
19.	"	G	on: 15,26,27(1-2E)	(R=9%)
20.	"	GM	on: 24,27 (2E)	(R=6%)
21.	"	PA	on: 15,18,21	
22.	"	ON	on: 12,15,21	
23.	"	OZ	on: 11,18,21	
24.	"	SM	on: 18	
25.	"	LA	on: 23,24 (2E)	
26.	"	DL	on: 5,12,13,15,18,20-28,31	(R=45%)
27.	"	SP	on: 5,6,10,11,13,14,18,22,24,26,27,30	(R=39%)
28.	"	OK	on: 15,24,28	
29.	"	OM	on: 13,18,23,26-28	

30.	"	OH	on: 24 (2E)	
31.	"	YL	on: 21	
32.	"	ES	on: 21	
33.	"	LY	on: 18,21	
34.	"	UR	on: 11,19,21-26,28-31	(R=39%)
35.	"	HA	on: 13,18,22-24,26-29	
36.	"	YU	on: 18,24,27,28	
37.	"	S5	on: 24,26-28	
38.	"	9A	on: 21-24,26	
39.	"	E7	on: 27	
40.	"	YO	on: 18	
41.	"	ER	on: 31	

42. Special events on:

5(first good Es day 2008+1130 SV2 to G+LX+PA on 4m)
8(1415 HI to EU 48Mhz video, first 2008)
15(0400 I6 to SV1 on 4m)
16(0600 JA7 to W7; 1st multihop Es 2008)
17(0630 JA1 to W7 Es)
18(1515-1545 SV14 to HA+SP on 4m +1730 SV2 to SV9 short Es skip)
19(0645 JA1+VR to W7+1745 FJ to CT 1st season)
20(0845 SV14 to I4+LX to SV2 on 4m+1445 LX to SV2 on 4m)
21(0315 OX/B to VE5 AuE+1045 SV14 to PA+1215 SV14 to SV9 tropo)
22(0700 JA8 to DL 1st season+1200-1430 W to CT+DL 1st season+1200 SV14 to OZ)
23(1045 SV14 to I0)
24(0730 JA to SV2+5B +1115 SV14 to G)
26(1045 SV14 to I)
27(0600 JA to SV2+1330-1830 SV14 to 9A+S5+OK+F+G+EI+GW+DL+I+PA + 1400-1600 SV1 to F+I+HB+DL+SP+HA+OK on 2m)
28(0545 JA to 5B+0700 JA to 5B+0730-1100 SV14 to CT+I+LX+DL+OE+PA+OY +1700 SV14 to I +1845 KP4 to 5B)
29(0830 SV14 to LX +1230 W4 to 5B+1615 V4 to 5B)
30(0545 JA to 5B +1230 W4 to 5B +1330-1400 W to SV2)
31(1815 FJ to 5B)

43. DXCC entities heard/worked during May 2008: 37 on 3 cont

44. DXCC entities heard/worked on 31st May 2008 :11 on 3 cont.

73 COSTAS

The Americas

Auroral-related Modes

May 2 0535 VE6EMU>W7(53a)

Other Modes

North America followed a similar pattern to Europe, with occasional sporadic-E contacts during the first week or so giving way to more generalized occurrence from around the 11th. Many of the reports received relate to contacts between countries in the Caribbean and the northern fringe of South America (HK, FY and YV) or between these countries and the United States. Almost nothing was heard from the Central American mainland, apart from occasional appearances by XE3ARV and reports of the TI2NA beacon. While the prefixes may be slightly exotic, and therefore attracted above-average attention, for the most part they were unremarkable in propagation terms. – though a small number were probably double-hop. Among the few reports that could be considered noteworthy were one between PY and FJ on the 8th, PY8 and KP4 on the 30th and a (terrestrial) contact by PR8ZX and W1JJ on the 29th. Trawling amid the detailed reports one finds a number of coast-to-coast contacts that were clearly multi-hop and became more frequent as the month went on.

In the absence of relatively complete data it is hard to say more, except to note JA<>W7 QSOs on the 16th and 17th. Most years bring such reports; the wonder is that such exceptional openings have often been exploited by very few operators. One reports is for beacon reception, underlining that no exceptional ERP was needed to make a contact. The times at the two ends were not outlandish, so what was the problem? Maybe a warning system would help – though DX summit postings would be sufficient for most people. Pity. (However, an opening in June show, was far more extensively followed up.)

Little was heard of South America outside the northern fringe and the PY contacts noted above. The exception was PY contest over the weekend of May 3 and 4. This produced a large number of intra-PY contacts but apparently none outside Brazil – though some PY-PY contacts may have been over considerable distances.

Here, as elsewhere, beacon callsigns are given in full, as an indicator of paths workable with low power.

May 1 0138-56 W4>W4 W2>W2 0541-3 VE7>W7 1052 K4MHZ>W4(Es) 1204 LY2BAW>K7CW(eme) 1324 VE3>W8 1742 NA7XX>W7 2312 PU5>PY5

May 2 0400-03 W7>VE7 1204 W4>W4,VE3 1502 W1>W1 1605-45 WZ8D>VE2 2028-53 V44KAI>FY1FL(Es) KP4EIT>FY1FL 2251 PY2>PP5 2354 K4HMZ>W4

May 3 00-0100 W4>W4 PU2>PY5,PY2 K4HRS>W4 01-0200 PY2>PY2,PP5 PY5>PP5 W4>W8(ms) 02-0300 PY4>PY4 03-0400 PY2>PY4 PY5>PP5 05-0600 PY2>PU2 0613 PY4>PY2 09-1000 PP5>PY5 10-1100 PY5>PP5,PY5 11-1200 PY2>PY2 PU2>PY5 W3>W4(jt) 12-1300 W4>W4 W5>W8(ms) PY2>PY5,PY2 13-01400 PY5>PP5 W8>W4 PP5>PP5 W0>VE2 PU1>PY4 W4>W3 PY5>PU2 14-1500 PS2>PY5 W5>W5,W4 PY2>PY2 PY1>PU1 PY5>PP5 15-1600 PY5>PU2 VE3,W3>W4(jt) PY2>PY2 IW5DHN>W7GJ(eme -20dB) W4>VE2,W9(sc),W4,W5 16-1700 W3>VE2 PY2>PY2 PY5>PY5 W8>W5(Es) 18-1900 N0LL,NA7XX>W7 W1>W8 PY2>PU2,PY4 W7>VE7 19-2000 PS2>PU2,PY4,PY5 PY5>PP5 PY2>PY2 20-2100 PY2>PY2 PS2>PY5 PY5>PP5 PY2>PU2 PY2>PY5 PU1>PY1 21-2200 PY5>PP5 PY2>PY3,PY2 PY4>PU2 22-2300 PY2>PY2 PU2>PY4,PY2 PY5>PP5 PY7>PY7 PU1>PY1 23-2400 PY2>PY2

May 4 01-0200 PY5>PP5 PY2>PP5 0404 ZW1>PY1 0825 PY4>PU2 0912-53 PU2>PY4 10-1100 PY2,PY4>PU2 11-1200 W4>W5(sc) W4,W8>W8 12-1300 W4>W8,W4 ZW1>PU1 EA7v>K2MUB(qtf 120) W1>W9 W0>W4(jt) W4>W8(sc),W4 W8>VE2 W1>W2 VO1>W1 13-1400 W1>W4 WZ8D>W4(sc) W9>W4(jt) W8>W9 W8>W4(ms/Es) W4,W3>W3 14-1500 PY2>PY2 W3>W4(jt) W0,W5>VE2 G5WQ>W7GJ(eme -19) I6BQI>W7GJ(eme -24dB) 1520 W0>W7 16-

1700 PY5>PY5 K6QXY>W7GJ(eme -22dB) GM4WJA>W7GJ(eme -22) PA3GCV>W7GJ(eme -19) 1920-50 W0>W7 W7KNT>W7

May 5 0011 K4HMZ>W4 0327 K4HRS>W4 1451 VE8WD>W7 1517 W7>W7 1621-45 NA7XX,WA7X>VE7 G5WQ>W7GJ(eme -21dB) 1934 WA7X>VE7 2217 VK7JG>W7GJ(eme -25dB) 2306 AB3BK>W7GJ(eme -27dB)

May 6 0042 VE7>VE7 0102 PY2WFG>PY2 10-1100 W4>W8(ms) W8>VE2 11-1200 W1>W8,VE2,W4(sc),W4(Es) VE1SMU,W4>W8 W8>VE2 K4TQR>W4 W9DR/4>W4 1241 VE3>W4 1331 VE1SMU>W1 1423 K0UO>W4(Es) 1550 K4TQR>W5 16-1700 WZ8D,W5GPM(Es) W6,VE7>W7 1727 W6>VE7 18-1900 VO2>W1 G4IGO>W7GJ(eme -26dB) G5WQ>W7GJ(eme -29dB) 2040-58 ON4KST>W7GJ(-27dB) MM0AMW>W7GJ(eme -25dB)

May 7 0022 VE2>VE2 11-1200 W4>W9,VE2,W4 W1>W4 1219 W1>W4 1826 W9DR/4>W4 2047-50 W4>W2 S57RR>W7GJ(eme -25dB) 2123 G4IGO>W7GJ(eme -26dB) 2202-239 G4RGK>W7GJ(eme -25dB) JR6EXN>W7GJ(eme -20dB)

May 8 0228 W3>W3 1617-45 PR8ZX(Es),FY7THF>FJ5DX 1813 W4>W0(Es) 1932-5 WZ8D>VE2(ms) 2037-58 G4IGO>W7GJ(eme -25dB) PE1BTX>W7GJ(eme -28dB) 2105-21 OZ1P>W7GJ(eme -25dB) G5WQ>W7GJ(eme -26dB) S57RR>W7GJ(eme -24dB) 2348 JR6EXN>W7GJ(-25dB)

May 9 0025 PY9>PP5 0151 W2>W2 1108 W4>W4 12-1300 W4,W9>VE2 W1>W4 W2>W3 W2>VE2(ms) 1359 VO2FUN>W1 1426 W2>W3 15-1600 VE2>W4(Es) W4>W4 VE2>W2 W3>VE3 1616 WZ8D>VE2(ms) 1716 W7>W4 19-2000 W6,W7>W7 2022-31 W6>W4 2253 S57RR>W1JJ(eme)

May 10 0044 W2>W3 11-1200 KP4>W4 W3CCX,W3DOG>W3 W4>W4 12-1300 W4>VE2 W0,W4,W1>W8 W1>W2,W4 13-1400 W4>W2 W8,W1,W7,W5>W4 W0>W9 VO2FUN>W1 14-1500 VE3>VE3 W3>W3 W2,VE2,VE3(Es)>W4 W4>W0(sc) 15-1600 W4>VE3,W8 W3>W8 W7>W7 16-1700 W4>W8(sc) W5>W4(Es) W7>W7,VE7 W0>W4(ms) 17-1800 W7>W0(iono) 18143 W2>W2 1924 VE1SMU>W3 23-2400 VE2>VE2 W7>W0(ms?) W2>W2,VE2 W0,W3>W9

May 11 00-0100 W3>W4(ms) W2>W2,W8,W9>W3 W4>W4,W2 W1>W8,W1,W3,VE2,VE3,W2,W3,W9>VE3 NP4A,KP4EIT,KP4YI>HI3TEJ PY5>PP5 01-0200 W1>W2,W3,W4,VE2 W8>W3,W9 PY9>PP5 W3>W3,W8 VE7>W7 W2>W4 02-0300 W8,VE3>W8 W4>W9,W8 W4>W4(tr) W1>VE2 12-1300 W1>W8(sc) VE1,W1>W3 NP4A,W4,W3>HI3TEJ W4>W4 K4HRS,W4>W3 15-1600 VE3>W8 16-1700 W8>W8 NP4A>W4 W4>W9 WB4WBO>HI3TEJ(ms) 1755 FY1FL>PJ2BVU 18-2900 FY1FL,FJ5DX,FY7THF>PJ2BVU 19-2000 FJ5DX>PJ2BVU W1,W4>W4 V44KAI>FY1FL NP4A>FJ5DX(bs) 20-2100 NP4A>HI3TEJ,PJ2BVU FY1FL>FJ5DX>WP3UX FM5AN>FJ5DX FM5AA>FJ5DX 21-2200 YV4DYJ,FM5WE,WP4AZT>FJ5DX W4>W5 W5>W7(sc) W4>W8 NP4A>PJ2BVU 22-2300 PJ2BVU>FJ5DX FY1FL>WP4G V44KAI>FY1FL 23-2400 2310 OK1FD>W7GJ(-29dB) HK3JRL>YV4AB,YV4ACU,YV5KG KP4>W4 HK3GXI>PJ2BVU

May 12 00-0100 KP4>W4 W2>W2 0323 W7>VE7 0441 W7>VE7 1114 W5>W3 12-13 W4>W9 W1>W4 1532 VO2FUN>W1 1735 NA7XX>VE7 1837-59 N0LL,W5GPM>VE3

May 13 0100 NP4A>HI3TEJ 1051 W4>VE3 1142 W4>HI3TEJ 1636-8 FY7THF>WP3UX W5>W0 1723 FY7THF>FJ5DX 18-1900 WB0RMO,VE3UBL>VE3 FJ5DX>WP3UX 19-2000 FJ5DX>9Z4CT,FM5AA PJ4NX>FM 5AA FY7THF>PJ4NX>W5 W0>W6 20-2100 W5>W4 N0LL>W4 21-2200 K0KP>W0 FY7THF>WP3UX C6AFP,W4(Es)>W3 W4>W4,W1(Es) W0>W0 N0LL.W7(Es) W0>W5 W7>W0,W4 NA7XX>W9,W7 W5,K0UO>W7 VE3,W5RP>W0

W5,W7>W9 WB0RMO>W3 W5GPM>W8 VE3>W0(Es) XE2>W5 W5>W4,W8 22-2300 W7>W5
VE3>W9 YV4DDK>FM5AA FY7THF>PJ2BVU W7>W5 W4>VE2,VE3 23-2400 W5>W8,VE3,W3
W9,W4,VE4,W5>W7 W8,W7,VE7>W7(Es) W9DR/4,K4IDC,K4TQR>W0 W4>W4 XE2>W3,VE2

May 14 00-0100 K0UO>W8 W4>VE2,W4 W5>VE3 FJ5DX>WP3UX W0,W5,W7>W9 WZ8D>W8
01-0200 W5,W8>W9 VE4ARM,VE3>W8 02-0300 W0>W9 VE3>W3 W8>W3,W4 0305 W2>W3
1121 W4>VE3 1230 K0KP>W0 13-1400 W2>W2 W5>W8,W9 14-1500 N0LL>W3,W8 VE7,W3
>VE3 WA7X>W7(Es) 15-1600 TI2NA>N3LL/4,W3HH/4 W7,W9>W4 W0>VE3,W5,W8 W5>W9
W5GPM>W4,W8 K0UO>W8 ,W9 W9DR/4>W9 W5>VE3 N6NB>W7 16-1700 W5>W9
W8>W0(Es) W0>W4,W8 W9DR/4>W4 N0LL>W3,W9 WB0RMO>W3 W7>VE7 WR9L>W9 17-
1800 K1MS,YV4AB,PJ2BVU>KE4WBO(Es) W7>W5 VA2FZN>W3 N0LL>W9 20-2100
C6AFP>N3DB VE3UBL,V44KAI,FY7THF>KE4WBO
W1,P43JB,PJ2BVU,FY7THF,YV4AB,HI3TEJ>K1TOL FT7THF>K9PPY PJ2BVU>N3DB,HI3TEJ
HI3TEJ,FY7THF,YV4AB>N3DB WP3UX>W9,W2 FG5FP>HI3TEJ VE3EN>HI3TEJ W4>W4,W9
21-2200
N0JK,FM1HN,N3DB,W3EP,N2NRD,K4ZOO,KB1LKB,N8UUP,W9RM,K9PPY,N4AVV,AB3BK,W
Z1V,K2SQS>HI3TEJ W2,W5,VE3>W4,W5 W4>W8,W9 FY7THF>AK3E,KE4WBO
P43JB,9Y4AT>N3DB PJ2BVU>KE4WBO,W1OW,WN3CDW,K3OO,FM5AA W2,W4,KP4>W9
PJ7/K2GSJ>N2NL FM5AA>K4UTE W3,W4,W8,W9>KP4
FY1FL>N2QT,KE4WBO,N4AVV,K8LEE,W9RM P43JB>KE4WBO(Es) 9Z4CT>N3DB W5>VE2
FM1HM>K9DRG,PJ2BVU 9Y4AT>N3DB W8,W4>VE2 YV4AB>N3DB W2,W0>W5 22-2300
PJ2BVU>AB3K,FM5AA KP4>W4,W8,W9,W2,9Z4 W9>W0 FM5AA>K4EA,N4AVV,K8LEE
W2,W5>W3 W3>W9,W5 FM1HF>PJ2BVU FY1FL>N3DB,K4EA,W3TC,HI3TEJ
HI3TEJ>WN3CDW,K4ZOO,PJ2BVU,N3CR,W3TMS,KB0FHP/2 9Z4CT>HE3TEJ
V44KAI>W£Z8D,FY1FL TI2NA>KE4WBO FM1HN>K4RX,W3TC,N4AVV,K4YYL,AB3BK
FY7THF>N3DB,WZ8D W4>W1,W2,W3 VA2FZN,K4HMZ>W4 N0LL>VE2 VE3>W5,W4
K4HRS>W9 C6AFP>VE3 FM5LD>N2TU,N3II,K4YYL K2ZD>W4 P43A>PJ2BVU YV4AB>WZ8D
23-2400 FY1FL>HI3TEJ,N2TU,K9DRG,WP3UX W4>W3 WR9L>W4 FM5AA>KB4XK
KP4>W2,W4 K0KP>W0 FJ5DX>N4AVV VE4VHF>VE2(Es),W4 HI3TEJ>KB4XK,K4ZOO
N0LL>W4,W'1 FM5LD>K8LEE WB0RMO>W4 WA3VXJ>W3 FM1HN>N2TU 9Z4CT>WP3UX
W0>VE2(Es)

May 15 00-0100 NA7XX>W8 VE3UBL,VE4ARM,N0LL,WB0RMO>VE2 K0KP>W4
HI3TEJ>KB1LKB,KP4,N3DB W4,W0>KP4 VE4VHF>W8 01-0200 VE3UBL,VA2FZN>VE2(gw)
12-1300 W9,W4>W4 13-1400 W4TIY,W3DOG,K2ZD>W4 TI2NA>N3LL/4,W3HH/4 W8>W8
C6AFP>W8 14-1500 W5RP>W8 WZ8D,VE3UBL,W4,W3DOG,W2>W4 1545 M4MHZ>W4 16-
1700 K0UO,W5HN>W4 N6NB>VE7 18-1900 W3>VE7 W9>W9 21-2200 KP4>W4,W8
HI3K>AA4SC,N4TMZ,K4MM XE3>W4 22-2300 FY7THF>K4MM,KE4WBO
HI3TEJ>K8YC,KI4TZ,N4AVV,W4GCB,PJ5DX W4>VE2 XE3>W3
VE3UBL,VE3WCC,W8GTX>W4 W3HH/4,W9DR/4,W4>VE2 KP4>W2,W4,W0 W5>W9
WB5LLI>W0 W7>W7 23-2400 KP4>W4,W8 V44KAI>WZ8D C6AFP>W8
XE3>W4,W5,W6,W7(Es),VE3 W4>W5 W5>W6,W7 TI2NA>N9HF TG9NX>WD5K
W0MTK,VE7,W7,NA7XX>W7(Es) P43A>PJ2BVU PU2>PY2 N7DB>W0 W0MTK>W7
NA7XX>VE7

May 16 00-0100 W0>W7(Es),VE7 W7>W5,W4,W6 XE3>W7,W5 WA3VXJ>W8 TI2NA>N9HF
W5,N0UD,W6>VE7 01-0200 W5,W7,W0,VE6EMU>W7(Es) W5>W6 KA7BGR>W0 02-0300
W6>W5,W4,W7 XE2,W6>W0 AC7XP,W0>W5 W5>VE7 03-0400 W7>W5 W5>W4 04-0500
VY1DX>VE7 05-0600 VY1DX>VE3,W7 NL7Z>VE3,W7,VE7 JE7YNQ>VE3CDX/W7(329
loc?),KE7V(519 CN88) 15-1600 W0>W7 W2>W9(Es) W2>W6 W4>W9 16-1700
W4,W3,W0>W9 W0>W9(tr),W4 N0LL,W0MTK>W3 W8,W0>W0 K0UO,W7,W6,W5>W4 W6>W3
W3,W7,W5,W7>W7 W5GPM>VE2(Es),W9 W5GPM>W9,W4,W' W5HN,K0UO>VE2
W6>W8,W1 W7>VE7 W8>W5,W7 W6>VE3 17-1800 W7>W4,W7 W0,W7>W1 W8>W7

W0>W3,W4 W7,N0LL,W0IJR>VE2 W5RP,W5SIX,W0IJR,W7>W9 W6>W8 18-1900
W0IJR>VE2 W1>W8 K0KP,WA3VXJ,K4IDC,W9VW,K8EB,W5>W0 W7>W9 W0>W4 19-2000
W3HH/4>W3 W0IJR,W5,W3>W4 N0UD,VE4ARM,VE4VHF>VE2(Es) W6>W7
W9DR/4,K4BI>HI3TEJ 20-2100 W4,V44KAI,FY7THF,HI3TEJ>WP3UX
W3HH/4,K4HRS>HI3TEJ W6>W4 N7LT>W7 W0>VE2 W1,W4,W8>W9 W7KNT,NA7XZX>W7
W5>W4 W8GTX>W5 21-2200 C6AFP>XE3ARV W4>W9,W8 PP5,PY2>PY2 V44KAI>FY1FL
FM5AA,FM5WE>YY4ACU W0>W4 22-2300 W4,VE3>W9 W0,W8>W4 W9DR/4>VE2,W0
W4,VE3UBL>VE2 W4>W1 23-2400 W4>W1 VE3>W4 W3HH/4,VO1ZA,W6>VE2 W1>W1
VE3>W9,W4

May 17 0550 NL7Z>VE3CDX/W7 0633 JE1BMJ>VE3CDX/W7(DM26) 11-1200
W8,VE3UBL>W4 W1,W5>W8 W2>W3 1851 V44KAI>WP3UX

May 18 FG5GP>HK4SAN 20-2100 FY7THF>FJ NP4A>FJ5DX FY1FL>FG,PJ FG>FP 21-2200
FY1FL>N2NL W4,HK3JRL>NP4A YV4AB>KE4WBO,K4MM 22-2300 YV4AB>K4MM,KE4WBO
W3,W2,W4,W9>KP4 23-2400 W3>KP4

May 19 18-1900 PV8AZ>V44KAI FY7THF>FJ 22-2300 FG>FM 23-2400 WP3UX>V44KAI

May 20 23-2400 YV4AB>KE4WBO,K4MM HI3TEJ>N2NL,N3CR.K3TKJ

May 21 17-1800 FY7THF>PJ

May 22 11-1200 DK1MAX,CT1HZE>W1JJ 12-1300 DK1MAX,CT1FFY,VE2>W1JJ
CT1FFU,CT1HZE,EB1GER,EA1CCM>K1TOL 13-1400 CU3EQ>W1JJ.K1TOL EA7KW>K1TOL
14-1500 EA7RM>K1TOL CU3EQ,EA6VQ>W1JJ 15-1600 EC7AMY,EA1BLX,EA6SA>W1JJ 17-
1800 FY7THF>PJ,FJ 20-2100 FY7THF>KP4 8P9TS>HI3TEJ,KP4 21-2200 FY1FL>KP4,N2NL
FM5WE,WP3UX,XE3ARV,9Y4RX,9Y4D>HI3TEJ 9Y4D>HI3TEJ,KP4 YV4AB>K4MM
HI3TEJ>YV4AB 22-2300 FY1FLYV4DDK,K7JE(AZ),YV5MM KP4>8P9TS FG>FM,YY4ACU,PJ
HI3TEJ>KP4EIT V44KAI>YV4DDK,WP3UX 23-2400 8P9TS>PJ

May 23 14-1500 HI3TEJ>K4MM,W4UAS YV4AB>K4MM W2>W115-1600
N4NDR,KD4ESV>HI3TEJ 16-1700 HI3TEJ>K4MM,N2NL 17-1800
HI3TEJ>W4ATM,K4MM,KF4YCP, 2040 YV4AB>KD4ESV 21-22 YV4AB>KD4ESV,K4MM 2203
YV4AB>K4MM

May 24 1805 FY7THF>FJ 22-2300 FY7THF>VE1YX,K1TOL 22-2300
FY1FL>K1TOL,AK3E,VE1YX,AB3BK,YY5LI,FG

May 25 11-1200
EA7KW,EA5EF,CT1HZE,F6FHP,EA6SA,IW5DHN,ON4KST,CT1GFK,EC7AKV>W1JJ 1222
F6FHP>W1JJ 1312 CT1FFU,EA1CCM>VE1YX 1748 FY7THF>PJ 18-1900
VE1YX,K1TOL>FY7THF 19-2000 FY7THF>KE4WBO,YV5KG 20-2100 PJ4NX>KE4WBO
FY7THF>YV5KG,K1TOL

May 26 11-1200 W3DOGB/K3TKJ>HI3TEJ 14-1500 DK1MAX>K1TOL 15-1600
DK3WG>K1TOL

May 27 1614 DK1MAX>W1JJ 22-2300 9Y4D>KP2,PJ

May 28 1524 HI3TEJ>W1JJ 18-1900 W1,W4,VE1>KP4 W1>W3,VE1 1928 HI3TEJ>N8JX 21-
2200 EB8CDX,EA8YT,DL7CM>HI3TEJ 9Y4D>VE1YX 22-2300 FY1FL>W1OW,K1BX
9Y4D>VE1DX,VE2RA FG5GP>VE1YX

May 29 1201 C6AFP>W1 15-1600 PR8ZX,V44KAI>W1JJ 1649 FJ5DX>W1JJ 20-2100
8P9TS>KP4 9Y4D>KP4 21-2200 8P9TS>KP4 9Y4D>KP4 22-2300 FJ>FG 23-2400
9Y4D>N8LIQ N8LIQ,W3CY>HI3TEJ

May 30 00-0100 HI3TEJ>W1AIM 11-1200
SP7HKK,DJ6YX,DF9CY,DH8BQA,DL7ARM,PA0O>K1TOL 12-1300 CT1FFU>VE1YX
PC5C,DL7DF,SP7CDG,OZ1BNN,OZ3K,CT1HZE,PA0O>K1TOL VE1YX,OZ3K>W1JJ 13-1400
DJ7YR,HA1FV,SV2DFA,SV2DCD,IW1AZJ,IW5DHN>K1TOL
PA0O,DJ7YR,LZ2HM,EA7KW,SV2DFA>W1JJ HI3TEJ>VE3DXP 14-1500
SV2DCD,LZ3CQ,SV3DFA,HA1YA>W1JJ 16-1700 9Y4D>K3OO,N3DB 17-1800 W1>W7
HI3TEJ> EA8/DL6FAW 18-1900 9Y4D>W3ATO,KW1AM,W3UR HI3TEJ>PV8AZ,EA8BPX
D4C>PJ2BVU 19-2000 D4C>PJ4NX 20-2100 PY9ELO,9Y4D,YV5ESN>HI3TEJ
FY1FL>K1TOL,KP4 21-2200 FY1FL>K3TKJ HI3TEJ>XE3ARV,K3TKJ YV4AB,9Y4AT>K1TOL
9Y4D>K1BX,N2NL,WZ1V FG5GP>YV5ESN YV5ESN>K1TOL 22-2300 9Y4D>N2NL,W9DR/4
8P9TS>N2NL,HI3TEJ,K1TOL,N2QT FY1FL>W2OIB W2,W1,W3,W4,XE3>KP4 PY8ELO>NP4A
8P9TS,FM5AN>HI3TEJ YV4AB>K4MM W4>W0,VE7,W2 VE6,W3CCX,W0MTK,W2>W5
VE3>W4 W7>W2,W5 XE2>W1 VE6,K8PLF>W7 NP4A>W8,W0,W1,W3,VE3,W2
8P9TS>N4AVV,HI3TEJ,K9BZ,K4QI NOLL>W2 VE7,K0KP,W7KNT>W5 W6>W2,W3,W4,W8
9Y4D>N8JX,N4AVV,K9BZ,W3LPL VE6EMU,VE7FG,VE6ARC,XE2,W3,W1>W0
W4,W8>WP3UX

May 31 00-0100 W8DR/4>VE3 W8>W4,W5,W7,W6 W4>W9,VE3,W7 W6>W0,W3,W4
W1,W8>W2 W8>W6(Es),W7,VE7,W0 W5>W9,W0,VE3,W2 VE4VHF>W1
VE2,VE4,VE7,W2>W4 VE4>W9 W6,W3,W9,W7>W7 W7>VE3,W2,W3 W4,W7>VE7
VE6>XE2,W7 W1,VE2,VE6,W9>W0 W6>VE2 W2>W3,W6 01-0200 W6>W4
W5>W3,W0,VE3,VE2 W7,W0>VE2 W7>W9,W8,W3 W0>W1,VE6,W0 VE7,W5>W8 02-0300
W0,W8>W5 W0,W6,W7,VE6,VE7>W9 VE4>VE7,W5,W0,VE2 K0GUV,W4>W5
KL7/KG0VL>K0HA W5,VE4VHF,VE5,K0GUV,W7,VE6,VE8BY>W0 VE5,VE4VHF>VE2,W8
VE3>W2 03-0400 VE5,NOLL,W7,W6,W5>W9 VE6>VE2,W9,W4,W0,W6 VE4,VE5,W6,W7>W0
VE3,VE4>W7 W0>W9,VE6,W8,VE7 VE8BY,VE5>W0 W9>VE6 W0>W8
04-0500 KL7/KG0VL(BP75)>K0HA,VE7DUB W7>W9 VE7,W6,VE6>W0 W8>W3 W0,VE4>VE7
W6>W7 W5>VE6 VE8BY(FP53)>K0GU W9>VE6 05-0600 W7>VE4,W0 VE6>W9
VE6EMU,VE6ARC>W0 VE4>VE7 06-0700 W0,VE4(Es)>W7 07-0800
AL7RT(BP64)>KB0CIM(Es) 1047 48238.1tv>KP4 11-1200 W1>W1 ZB2FK>VE1PZ
CT1HZE>KP4EIT12-1300 W1>W1 W4>W4 CT1HZE>W1JJ 13-1400 W1>W4
EA8BPX>VO1KVT F6FRA,CT1ART/b>FJ5DX W7>W7
HR9/WQ7REK>N4US,K3AX,AA4FL,K4YMQ,K1GUN,K4GSO W2>W9 W4>W9 ,KP4
W0>W5(ms) W1>W4 K0KP>W0 14-1500 W0>W0 HR9/WQ7RA>WB4CSW,AA4V,K2EK/4
W3HH/4>W1 W4,W1>W3 C6AFP>W8 F5DE>FM5AN W4>W9,XE3 F6FHP>WP3UX 15-1600
W4>W5,W0,W8 XE3,W5,W9>W4 W2,W8,C6AFP>W9 W2>W2(Es),W8 W9>VE3 XE3>W3
HI8AAX>K4GSO,K2DRH/9 W9>XE3 W8>W2 F6FHP>FJ5DX,FG5FP CT1HZE>FJ5DX 16-1700
D4C>WP3UX F6FHP>FG5GP W8>W3,W2 XE3,KP4,W8,W9>W4 W5>W2,W4 W1>XE3
K0UO>W4 FJ5>FG5 W0,W3>W7(ms) D4C>FJ5DX XE2>W9 8P9TS>HI3TEJ 17-1800
W5>W5,W7 KP4>W9 D4C>K4NNX W6,W7>W6 W5>W4,W0 W4,WA7X,W5>W7,VE7
W0MTK>W7,VE7 W4>KP4 W5>W4 8P9TS>K4QI FJ5DX>KP4 18-1900 W5,VE7>W7
FJ5DX>PJ2BVU W0>W4 VO2FUN>VE2 HI3TEJ>NP3CW(bs)FJ5DX>YY5LI W7,W5>W5
FJ5DX>CT1ILT YY5LI,SP8NCJ>FJ5DX,KP4EIT FM5AN,CU3EQ,KP2BH>KP4EIT
W4,W9,W7>W7 8P9TS,FM5WD>K4QI W0>W6 HA0DU>KP4EIT,FJ5DX
VE9AA,KP2BH,FG5GP>HI3TEJ EA6SX>PJ4NX,WP3UX W3>W3 19-2000 N6NB,W5,W9>W5
W7>W6,VE7,W7,W5 FJ5DX>K1TOL,K1SIX,K4RX,AG2A,W2QO K4TQR>W5 W0MTK>W7
W0>W6,W0 8P9TS>K2LZQ,N1SV,K1TOL,K1SIX,WC2K,WZ1V W5>W8 FG5FP>W2OIB
KP4>W1 20-2100 8P9TS>WN3CDW,K1TR W5>W6 W2>KP4 KP2BH>W2OIB,WZ1V

NP3CW>W1,W2 KP4HQ>W2 KP4SQ>W1,W4 W6,N0LL,W9>W7 W5>W4,W5,W8,W9
W4,W5,W7>W0 NP4A>W2,W4,W0 PJ2BVU>K1TOL N3DB>PR8ZX
8P9TS>N1SV,N3DB,W9DR/4,K1SIX,K2PLF W3>W1 PY2>PY5 21-2200 PR8ZX>NP4A
XE2>W0 KP4N>W8 8P9TS>N4AVV,W2QO,HI3TEJ,K4QI,W1OW,K1SIX
NP4A>W8,W3,W4,W9,W2 W5,W0,W4,W9>W5 W3>NP3CW C6AFP>K1BX
FM5AA>K1TOL,W3TC,N8UUP,WN3CDW,W2QO,W9DR/4,N2QT N0LL>W6
HI3TEJ>K0HA,KC2HZW,WC2K,W9RM,K4XD,KA3AFY,K4RX,WB2WKF,WN3CDW,W2QO
FM1HM>W2QO FJ5DX>K1TOL,W3TC,K3OO,AB3BK,WZ8D,N3DB,AC4TO NP4A>HI3TEJ
W0>W4 HI3K>>N4TMZ 22-2300
HI3TEJ>W4GF,VE9AA,K2PLF,K4EA,W2OIB,W4CLJ,N8UUP,N3CR FJ5DX>N2QT
C6AFP>N1SV,WA3WUL W5,W6>W0 NP4A>W1,W4,W3 W4>W2,W3,W4,W1 W5>W7 23-2400
KP2BH>W4 NP4A>W4 FM5AN>WA3WUL W1,W4>W3 CO8LY>K2PLF,KC8UHE
HI3TEJ>K8ROX,N3DB W4>W2 C6AFP>VE2,W8 W6,W7>W5 W4>W8,VE9 W0>W9
WP4AZT>W2,W3 W0>W7,W0 W4,W5>W1 ZF2JO>K5VIP
VE4VHF>W5

Asia and the Pacific

Asia

Reports on Asia, the Pacific and Oceania for the most part are notified through different channels from Europe and North America and so were little affected by the outage discussed earlier. However, the web pages carry few reports of contacts within Japan, which were almost certainly far more numerous than reported here, nor do JA reports routinely suggest the propagation mode involved. One simply notes that this is the most substantial JA record that we have had for a considerable time.

May 2 10-1100 JA2IGY>9M6XRO 9M6RXO>JA6 1206 VR2>BG7

May 5 0534 I6BQI>JR6EXN(eme -25dB)

May 8 0723 MM0AMW>JR6EXN(eme -26dB) 0847 BV2NT>JA6 1121 BV2NT>JA3 1230
W1JJ>JR6EXN(eme -17dB)

May 9 0032 MM0AMW>JR6EXN(eme -24dB)

May 10 02-0300 6K2,DS1>JA7 JA7>6K5 03-0400 6K5>JA6 JA6>JA8 JE7YNQ>6K5 04-0500
HL2>JA1 DS1>JA1 05-0600 DS4>JA1 BG4>JA7

May 11 0333-57 VR2>JA6,6K5 BV2NT>DU7 04-0500 UA/BYtv,VR2,BG7>DU7

May 12 05-0600 VR2SIX>DU7 DU7>BG7

May 13 0353 BYtv>DU7

May 14 0131 BV2NT>JA3 0324-7 BV2NT,VR2SIX>JA6

May 16 0427 VR2SIX>9M6

May 17 0647 JA7>JA8

May 20 0955-9 JA2IGY,JE7YNQ,JG1ZGW>BD4

May 21 0012 55250(DU)>JE7 0320-35 48260.5(HS)>JE7 V73SIX>JE7 0507 JD1>JA1 1038 BD4SI>JA3

May 22 0012 55250(DU)>JA7 0825 62260(HS)>JA7

May 23 55240(KL7)>JA7 2001 9M6XRO>JA8 1025-38 6K5AKY>JA8 48249.9(9M2)>JA7 2251 612505(DU)>>JA7

May 24 0039 DS1RES>JA1 0250-6 6K5>JA3 XV3AA,XX9TTR>JA2 VR10XLN>JA3 0302-55 HL2>JA3 BD4SI>JA1 0705 55240(KL7)>JA7 1023 VR10XLN>JA8

May 25 1223 UN8GC>JA7 1423-42 BD4BA>JA1,JA3 1033-51 VR10XMT,DL2/JRM/BA4TB>JA6

May 27 0645 BV2NT>JA3

May 28 2327-47 55250(HS),55251.1(DU)>JA7

May 29 0913 62239.6(HS)>JA7 2351 VR2SIX>BD4 55250(DU)>JA7

May 30 0048-53 XV3AA,XV3BB>7N4

May 31 00-0100 BD9BA>HL2KV,JA7 JA2>BX4AP DS1>JA7 03-0400 JH8ZND>DS1 0410 HL2>DS1 0550 BM2>JA7 0611-33 DS4>JA2 DS5>JA1 07-0800 JH8ZND,JE7YNQ>DS1 VR10XMT>JA7 0859 55250(DU)>JA7 0909 6K2>JA6 1001-39 VR2SIX>DU7 JE7YNQ,JG1ZGW>DS1PDF RW0CQ>JA3 55250(DU)>JA7 1100 BV2NT,VR2SIX>DU6 23-2400 BV2NT>JA2 JA8>VR10XMT

Australia & New Zealand

A relatively quiet month 'down under'. EME working apart, the great majority of reports were for contacts between VKs (often over substantial distances) or VK<>ZL. The FK8SIX beacon made a couple of appearances but, as usual, there was no activity from New Caledonian operators. DX tv was reported from Asia, with tep the probable mode.

May 3 04-0500 GD0TEP,IW5DHN>VK7JG(eme)

May 7 10-1100 VK5RBV,VK3XQ,VK5GF>ZL2

May 10 2251 VK5>ZL2

May 14 0836-8 VK2RSY,VK2RHV>VK2 1303 VK4RGG>VK4

May 22 0254 VK5VF>VK2

May 25 0233 VK6>VK6 0327 VK8>VK4 0514 49750(OM34)>VK5 0557 48.239 HStv(OK14)>VK4 0633 FK8SIX>ZL2

May 26 0127 49750BYtv(OM88)>ZL2 FK8SIX>ZL2 0341 FK8SIX>ZL2 51670(QG53)>ZL2 0555 FK8SIX>VK2 0623 FK8SIX>VK2

May 27 0435 55260.4ZLtv(RE54)>VK2 0542 ZL3>VK7

May 28 0031 57250(PF96)>VK6

May 29 0322 FK8SIX>ZL3 005-0600 51670(QG53)>VK7 VK7RST>VK2 0629 VK6RSX>VK6 0736 VK4RTL>VK2 08-0900 51670(QG53),VK5RBV>VK7 VK7RST,VK5RAE>VK5 0919 57250(PF96)>VK6

May 31 0217 55239.6(NZ)>VK2 0329 51670((QG53)>VK2 03-0400 VK4RGG>VK2 04-0500 VK4RTL>VK2 VK7>VK4 VK3RMH>VK2 VK2RSY>VK4 ZL3SIX>ZL2 05-0600 VK7RST>VK7 VK4>VK2

28MHz

United Kingdom

Here again missing data means we do not have as full a picture as one would like, whether for the UK or the wider world. Countries/entities known to have been heard or worked in the UK during the month included: CT CT2 C3 DL EA EA6 EA8 EI ER ES E7 EW F HA HB I IS0 KP4 LA LU LY LZ OE OH OH0 OK OM ON OY OZ PA PJ PY SM SP SV1 SV5 SV9 S5 TF T7 UN UR UA UA0 W YL YO YU ZB 5B 4L 4X 5U 6Y 7X 9A 9H 9M 9V. Not all that bad a list really, for a summer month during solar minimum. However, as with 50MHz, not everyone would have been in a position to work everything. Ted, G4UPS, indicates that he heard no 28MHz beacons at his south-westerly location during the first nine days of the month. Most people were more fortunate, but although 39 beacons are known to have been reported into the UK , only a few within Es range were heard at all regularly. One reason for that may be the

	C3	CS3B	CS5	DB0UM	DBFKS	DF0AAB	DF0ANN	DK0TEN	DL0IGI
03-06									1
06-09	3		7	5	3	4	2	5	7
09-12	3	1	4	3		3	2	3	5
12-15	2	1	6	5	1	3		8	7
15-18	2		3			1		1	
18-21	1		1	1		1		2	1
21-24	3		2	2		1		2	3

	DM0ING	EA3TEN	EA4Q	ER1TEN	F5ZUU	F5ZWE	I1DFS	I1M	IZ1GJH	I3GNQ
03-06										
06-09	4	5	7			6		5		2
09-12	2	1	4	1	1	3		3		2
12-15	4	3	7	1		6		4		2
15-18			1			2	2	2	1	1
18-21			1							
21-24		3	1			2	1	3		1

	IW3FZQ	IN3KLQ	IZ3LCJ	IW3SGT	IY4M	I8EMG	IQ8CZ	IS0GOV	LA4TEN	LA5TEN
03-06	1					2			1	1
06-09	7	2	6	1	6	13	5		1	3
09-12	7		4		4	6	2		2	2
12-15	8	2	4		3	4	4		2	1
15-18	3		2		4	12			1	1
18-21	2				1	5		2	2	1
21-24	4		2	1	4	4				

	OE5XAC	OH2B	OH5RAC	OH9TEN	OK0EG	PI7ETE	SK0CT	SM5HUA	SV3AQR	5B4CY
03-06	2				2		1			
06-09	10	6		3	6		7		1	2
09-12	4	3	1	2	7		9	1	1	1
12-15	7	7	1	2	8	1	8	1		
15-18	5	3	1	1	3		2	1		1
18-21	3	3	1	1	4		4	2	1	
21-24	1				4		1	2		

substantial number of beacons, mainly Italian, running QRPP with QRSS. That combination may lead to their being unheard or unrecognized in the UK, though some feature fairly regularly in DJ7KG's daily reports. There were no reports of the HG, SP or YO beacons, which may not have been in daily operation. The3 normally reliable SK5AE was not reported and may not have been on the air. Note that reception of 5B4CY would require a double hop.

The table above shows, for each three-hour period, the number of days on which individual beacons were reported. No beacons were reported between midnight UTC and 0300. There were only 9 reports before 0600, 139 between 0600 and 0900, 125 between 0900 and 1200, 90 from 1200 to 1500, 56 between 1500 and 1800, 40 from 1800 to 2100 and 47 after 2100. However, these results have to be viewed with caution as they may be influenced by monitoring patterns

28MHz Worldwide

Morning, noon, afternoon and evening; to all practical intents and purposes there was propagation between locations within Europe on ninety per cent of days or better, with sporadic-E reported every day (though, as in Britain, not every area of the continent reported Es every day, particularly in Scandinavia). In this early part of the season very short skip remained a rarity, but G-GM contacts were reported around 1242 on the 28th. While almost all contacts lay within normal waking hours, G4OBK reported EA1FAQ at 0007 on the 28th, presumably by Es. However, this was outdone by a report from OE1SOW of hearing the ER1TEN, F5ZWE and LA5TEN beacons between 0251 and 0257 on the 25th.

At some time or other during the month contact was made from Europe with all continents, though the morning of the 27th and evening of the 28th are the only days when the Europe<->Australia path is known to have been open, in the latter case VK3II reported heard by DH0BQA at the unexpected hour of 1956UTC. Though information is patchy, Africa was worked on most days and at most periods of the day. North American contacts, though relatively few, included ZB2FK<->NR1E at 1212 on the 9th, G6PZ<->W4QN at 1239 on the 25th and DR1A<->NN5P at 2229, also on the 25th. F5TDK worked K4NV, NG3J, KP4GDK between 2107 and 2127 on the 29th, followed by KE4EDX and W4JS with F5TDK around 2313. G7RAU worked KP4TF at 2349 on the 27th. DL7HUW and DJ1YFK worked W1VQ around 2223 on the 31st. There was a good opening to 6Y late on the 26th, in which 6Y1V contacted I, CT, IT9 and EU1. All these contacts were presumably by multihop Es. Asia was reported into Europe on most days, usually by way of contacts with 4X or the Gulf States. However, 9M2CNC was worked by G4EZT and GM4FDM at 1203 on the 25th and JA worked OY and OZ around

1021, also on the 25th. South America was worked from Europe on almost half the days for which we have data, mostly in the evening and, probably, Es-assisted.

As in Europe, there appears to have been sporadic-E propagation within North/Central America on every day and at all periods of the day, but this did not prevent some operators reporting no signals for days on end. Others, particularly in central and southern areas, tended to fare better; west coast operators, who could only look eastwards for contacts, generally had a leaner time.

Paths from North America to Africa and Asia were difficult, with only a scattering of reports. However, South America was worked on at least 25 days.

G2AHU SK

With great regret we note the passing of Ray Cracknell in June. Firstly, for the most parochial of reasons: It was Ray who, many years ago, launched a monthly report of beacon reception that he compiled, produced and circulated single handed. Without him this much larger Report would not have existed.

But Ray was much, much more than that. Back in the sixties he created and operated the 29MHz beacon ZE2JV, that he ran from what was then Southern Rhodesia, where he was worked. This was one of the first amateur propagation beacons. I came across it as a youngish SWL and sent Ray reception reports, thus continuing a relationship that lasted over forty years. Once licensed, he was among my first DX contacts on 21 and 28MHz. It was while in ZE that, together with 5B4WR, SV1DH and ZS6PW, he explored transequatorial propagation at 144 and 430MHz. Ray's paper was among the first, if not the first, published on tep and, I believe, the demonstration of tep at 430MHz remains the highest frequency at which been demonstrated to date

On retirement Ray returned to the UK, where he was for many years an active, enthusiastic and knowledgeable member of the RSGB's Propagation Studies Committee. He was an active operator on 3.5, 28, 50 and 144MHz until quite recently. He produced a paper on the tropo path at 50MHz between his location near Leominster and a beacon run by G4IFX in Darlington. No mere appliance operator, even in his 80s he designed and constructed a four-band beacon for 21, 24, 28 and 50MHz. In all, he was an amateur in the highest and best sense of that word, yet one of the few among us who left a lasting mark on the hobby. MH