50 MHz propagation reports during solar cycle 22

1988 - 1992

By Henk J. Schanssema PA2S

This document contains propagation reports that were compiled during solar cycle 22

Created on a Macintosh computer and converted.

Partly re-edited with colour, but most graphs unchanged.

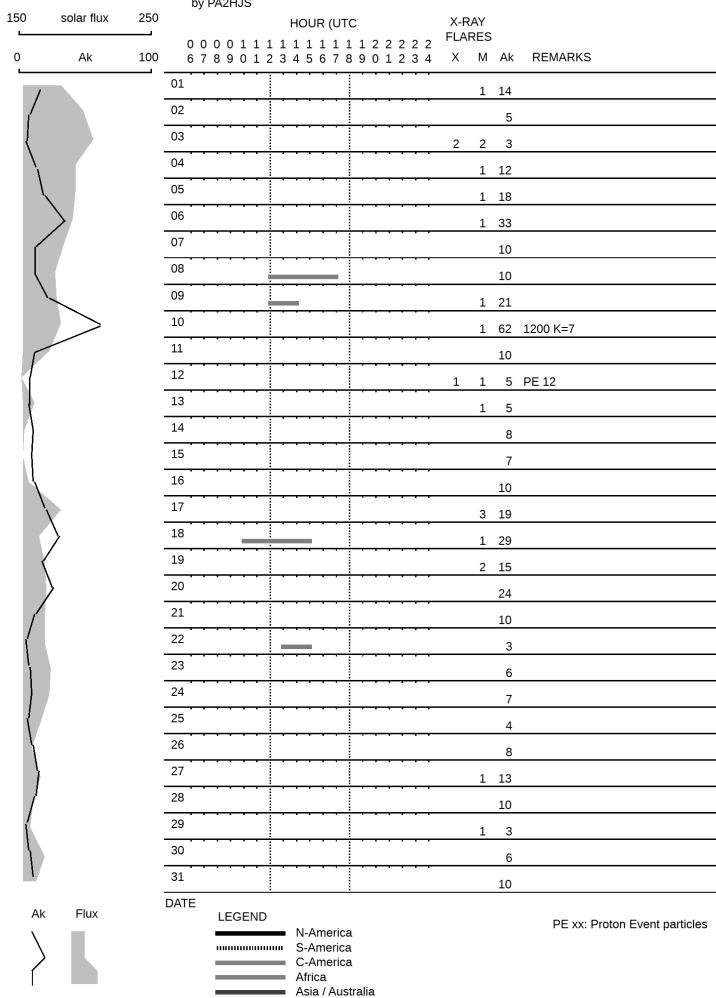
Patterns not converted properly.

The graphs provide insight in what to expect during the seasons and times of the day.

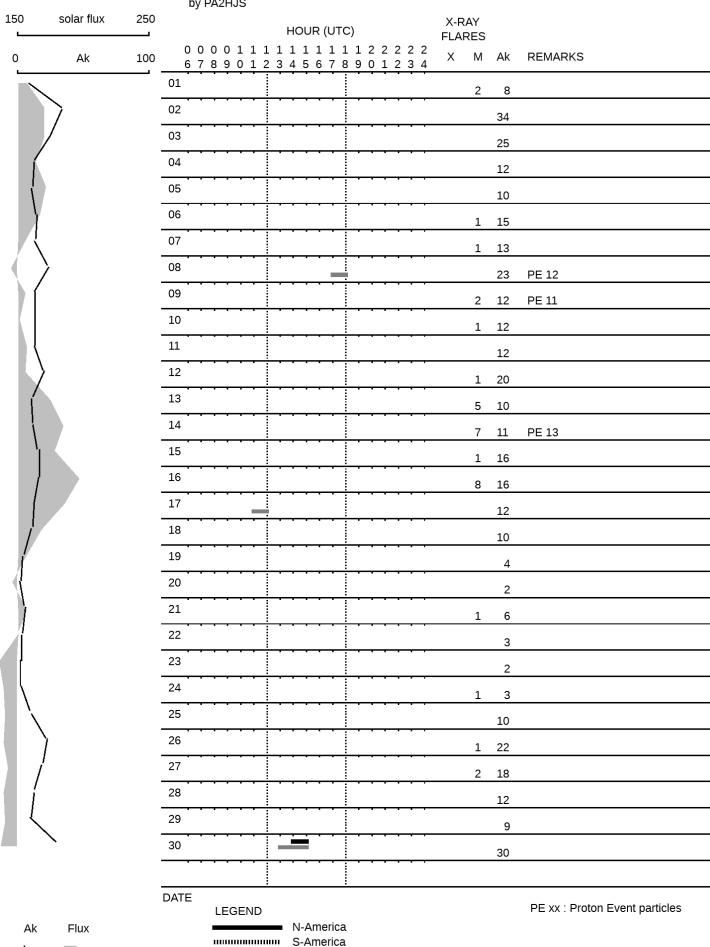
The position of the bars correspond to the legend on the bottom of the page.

November 2024

50 MHz F2 propagation review of October 1988 by PA2HJS



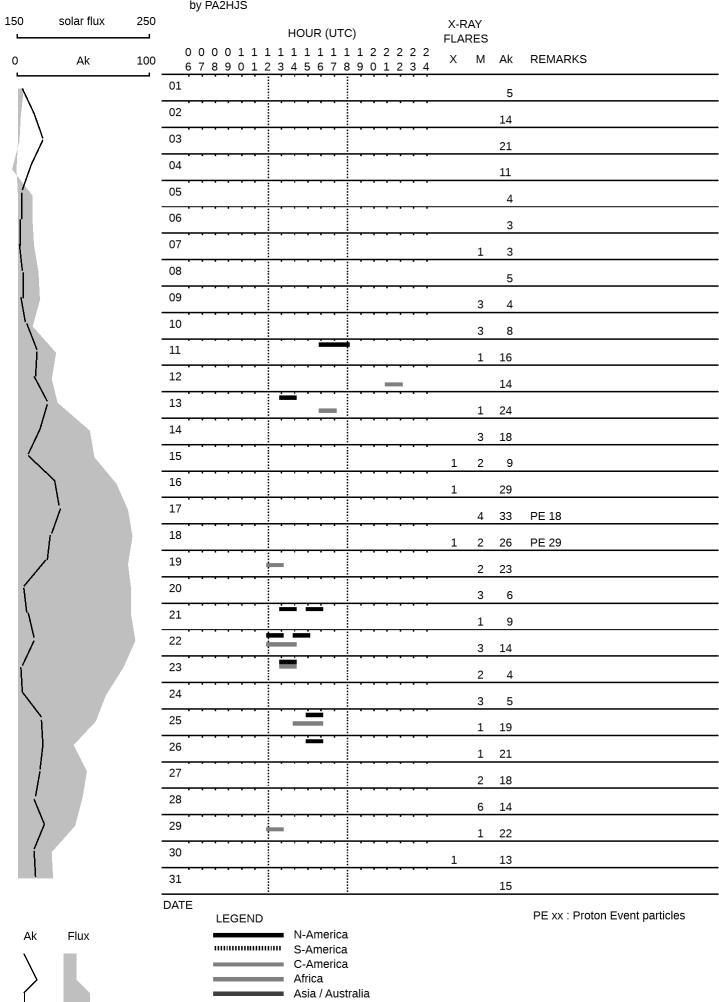
50 MHz F2 propagation review of November 1988 by PA2HJS



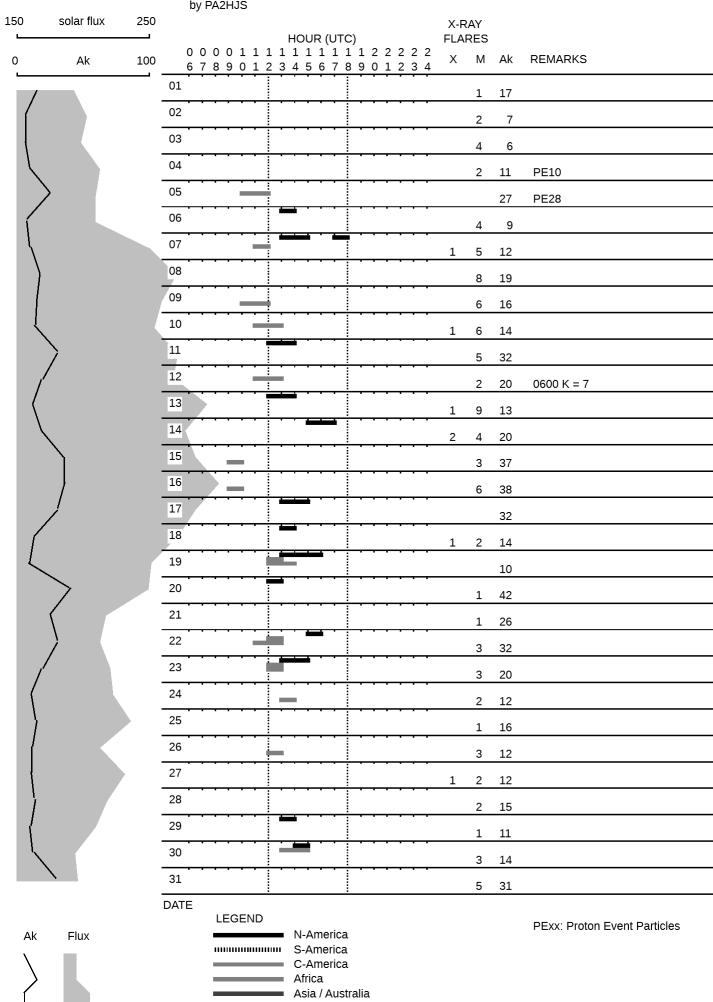
Ak Flux

N-America
S-America
C-America
Africa
Asia / Australia

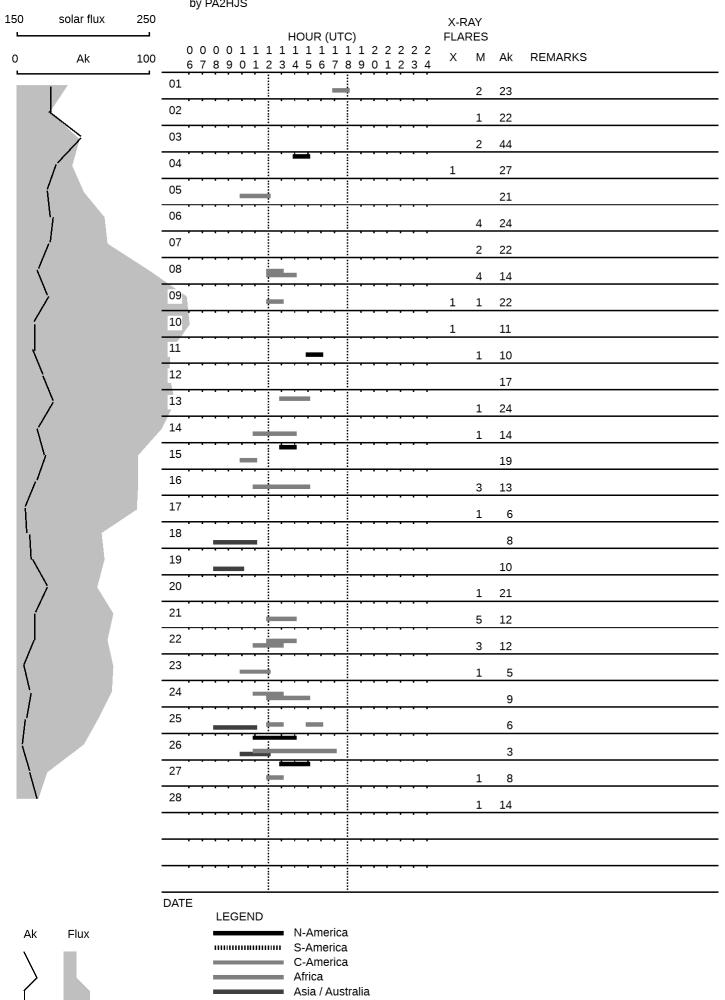
50 MHz F2 propagation review of December 1988 by PA2HJS



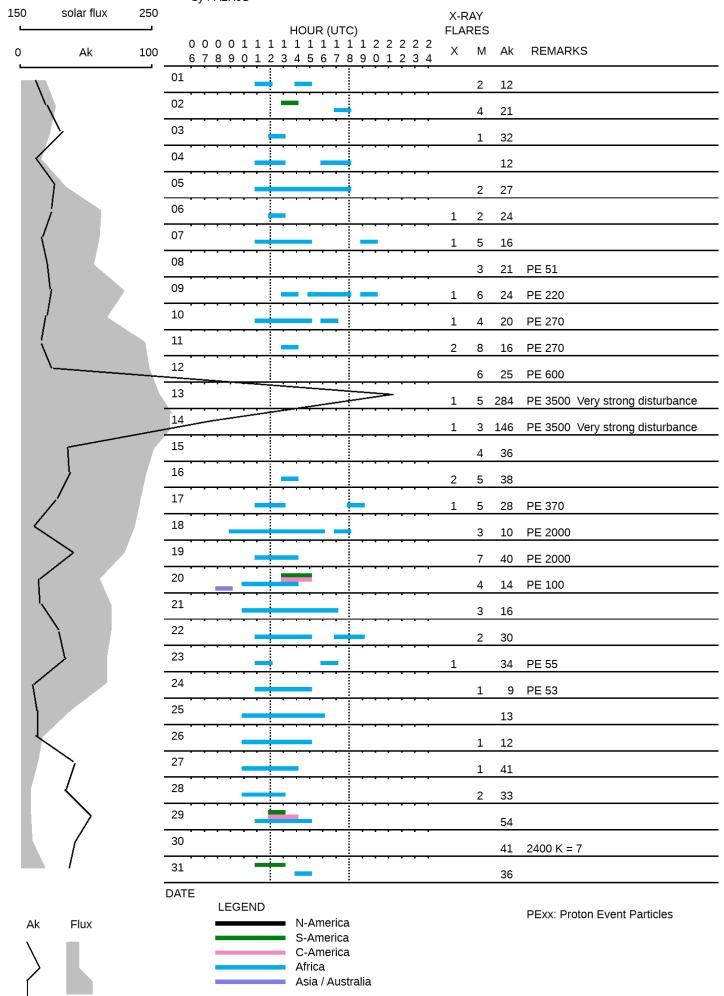
50 MHz F2 propagation review of January 1989 by PA2HJS



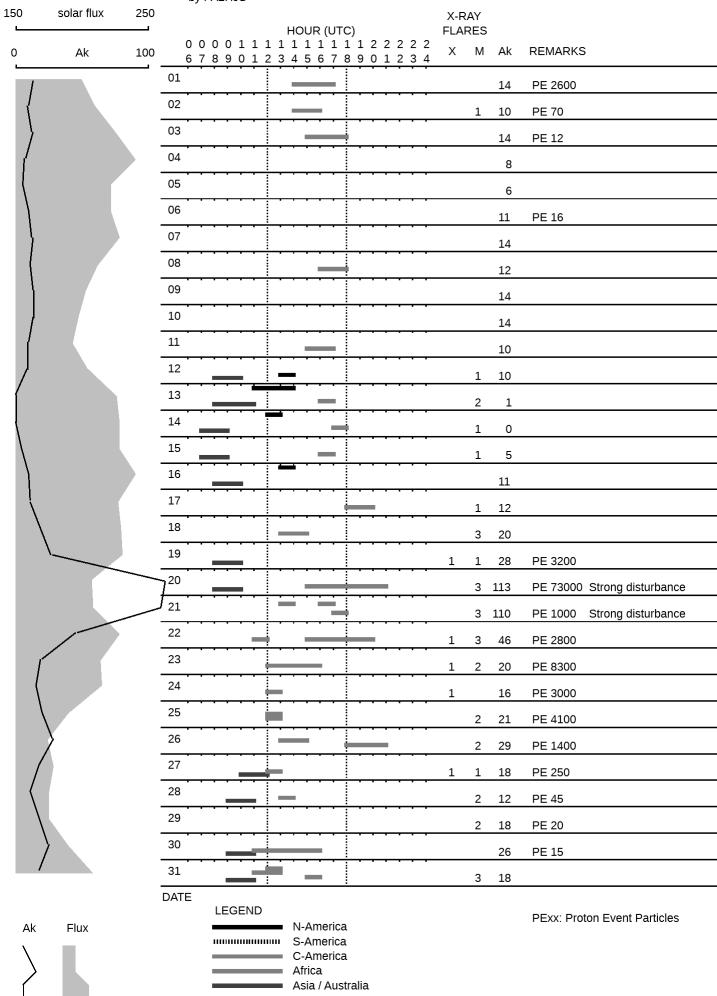
50 MHz F2 propagation review of February 1989 by PA2HJS



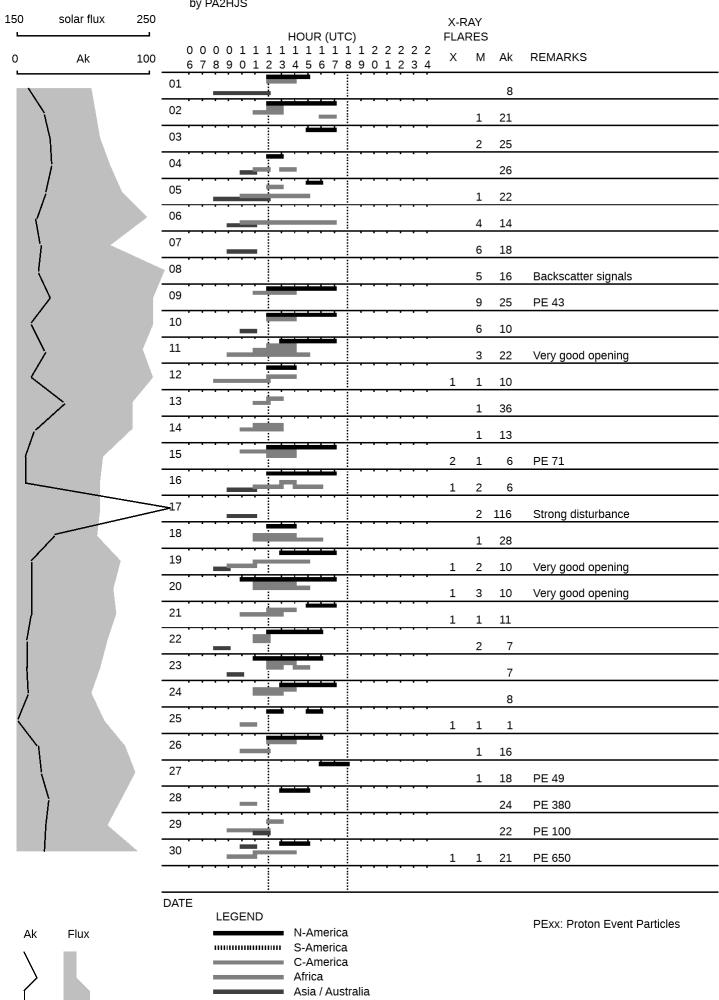
50 MHz F2 propagation review of March 1989 by PA2HJS



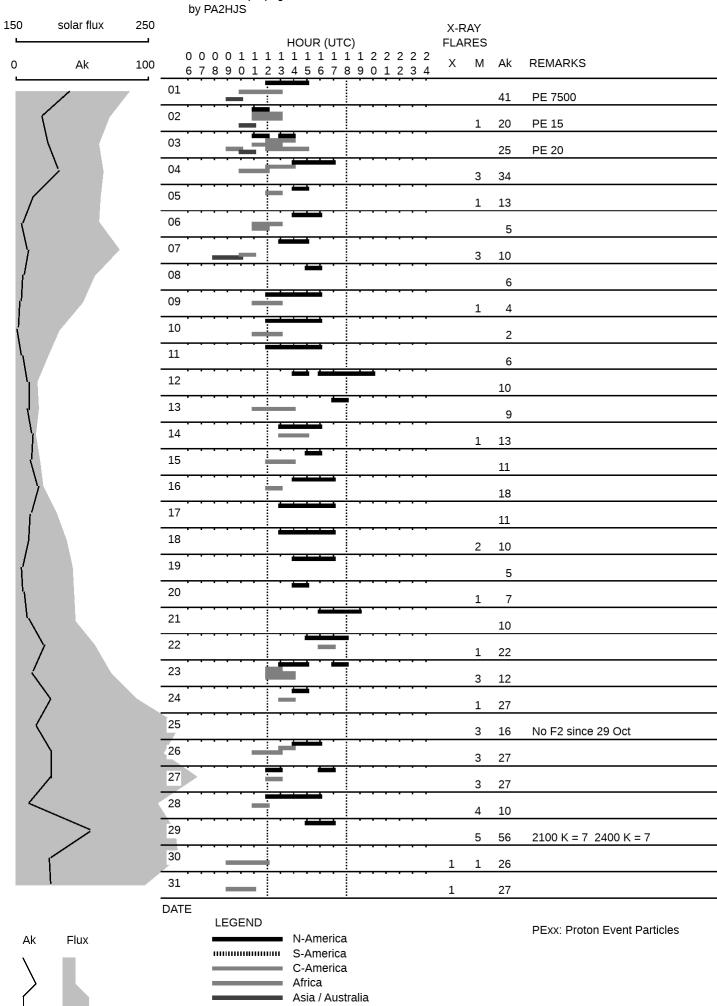
50 MHz F2 propagation review of October 1989 by PA2HJS



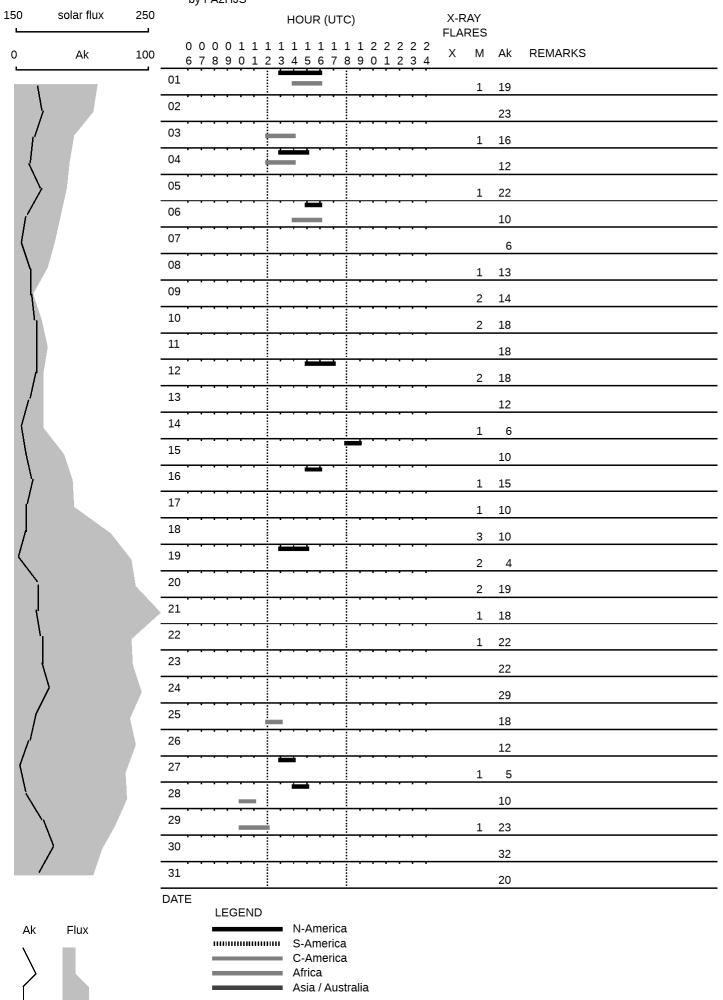
50 MHz F2 propagation review of November 1989 by PA2HJS



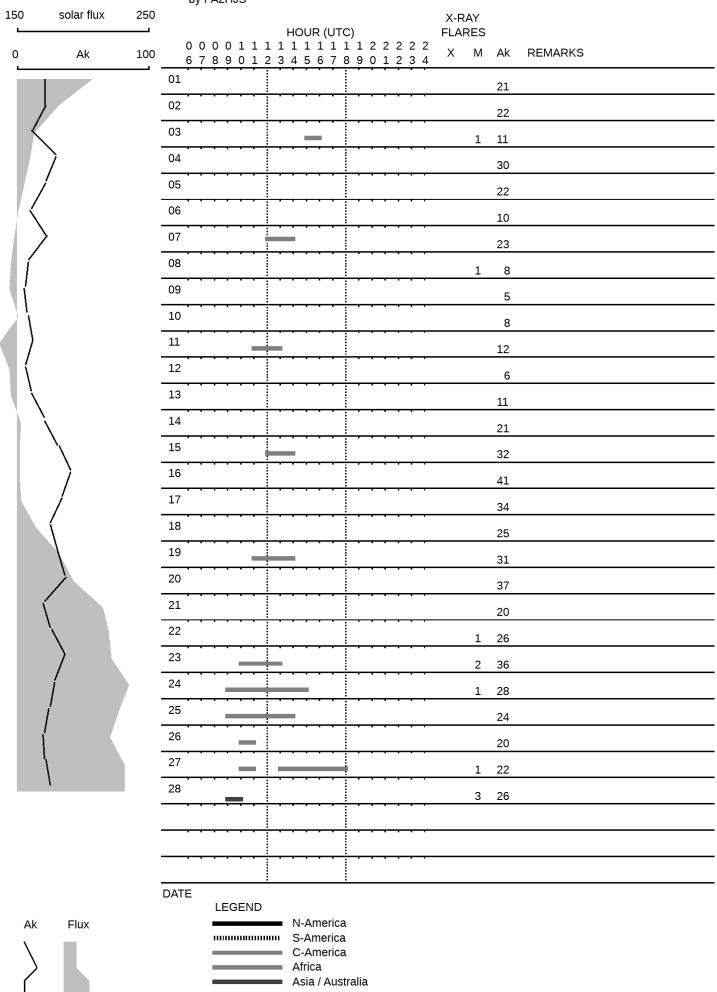
50 MHz F2 propagation review of December 1989 by PA2HJS



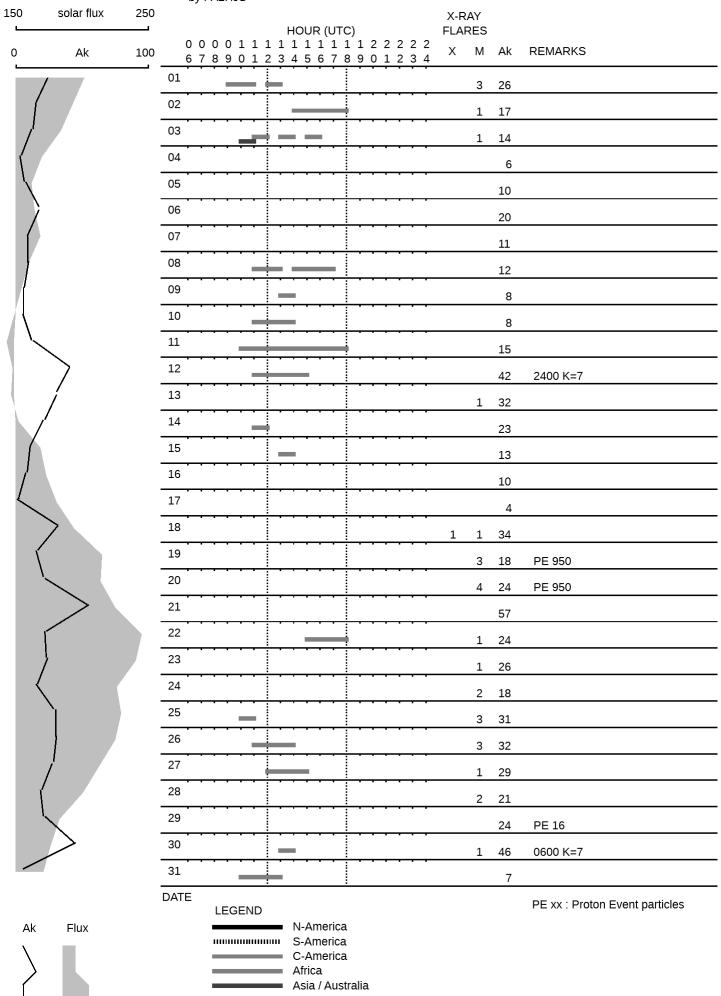
50 MHz F2 propagation review of January 1990 by PA2HJS



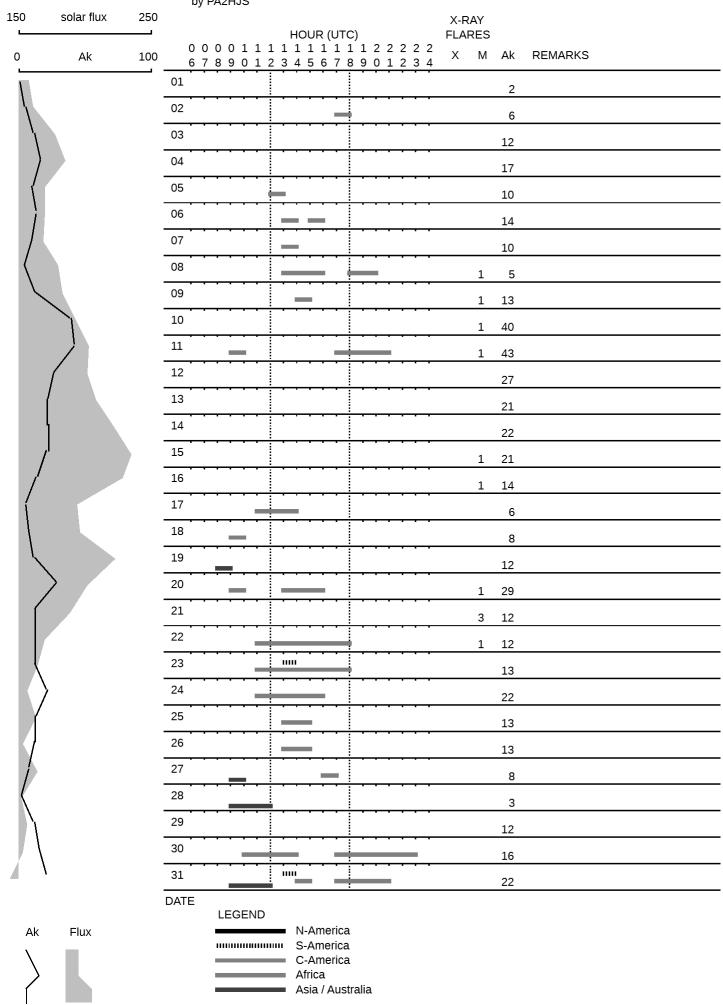
50 MHz F2 propagation review of February 1990 by PA2HJS



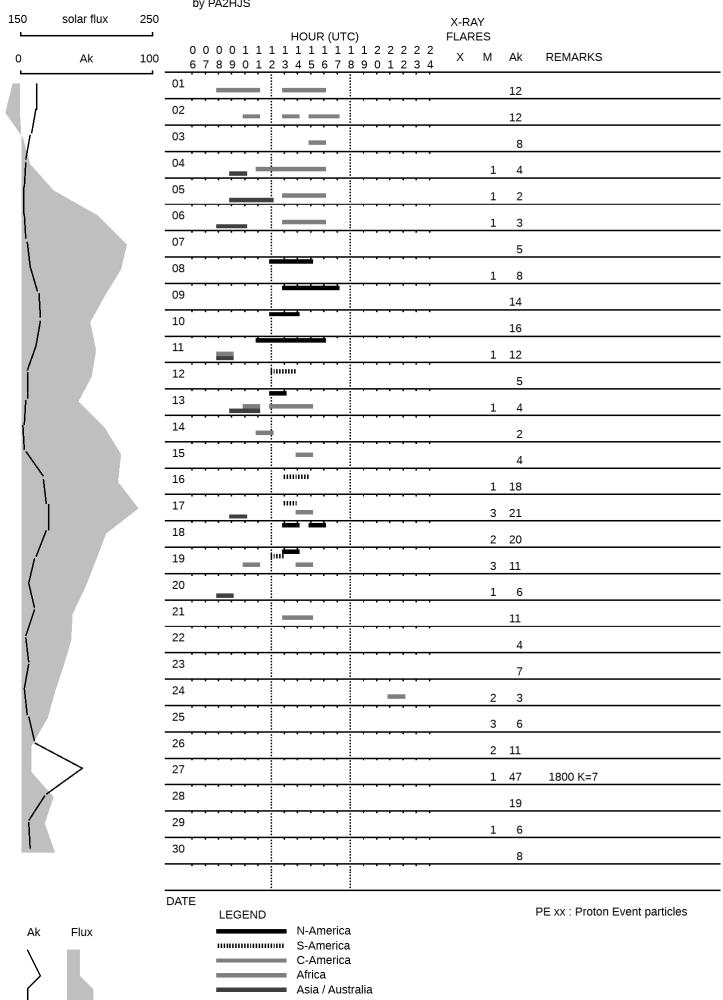
50 MHz F2 propagation review of March 1990 by PA2HJS



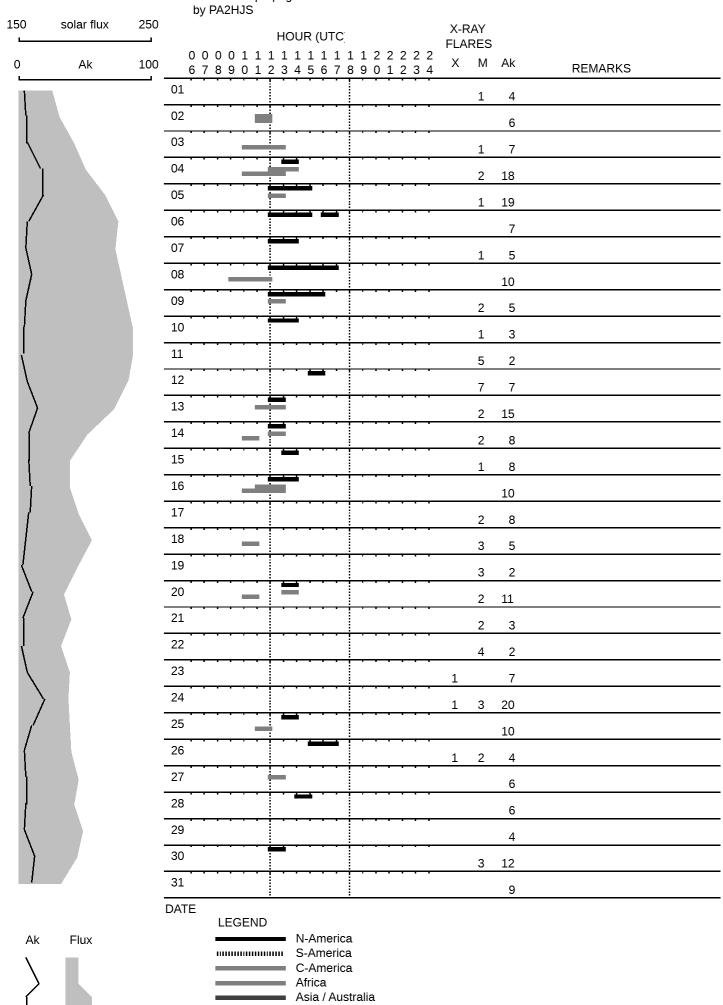
50 MHz F2 propagation review of October 1990 by PA2HJS



50 MHz F2 propagation review of November 1990 by PA2HJS

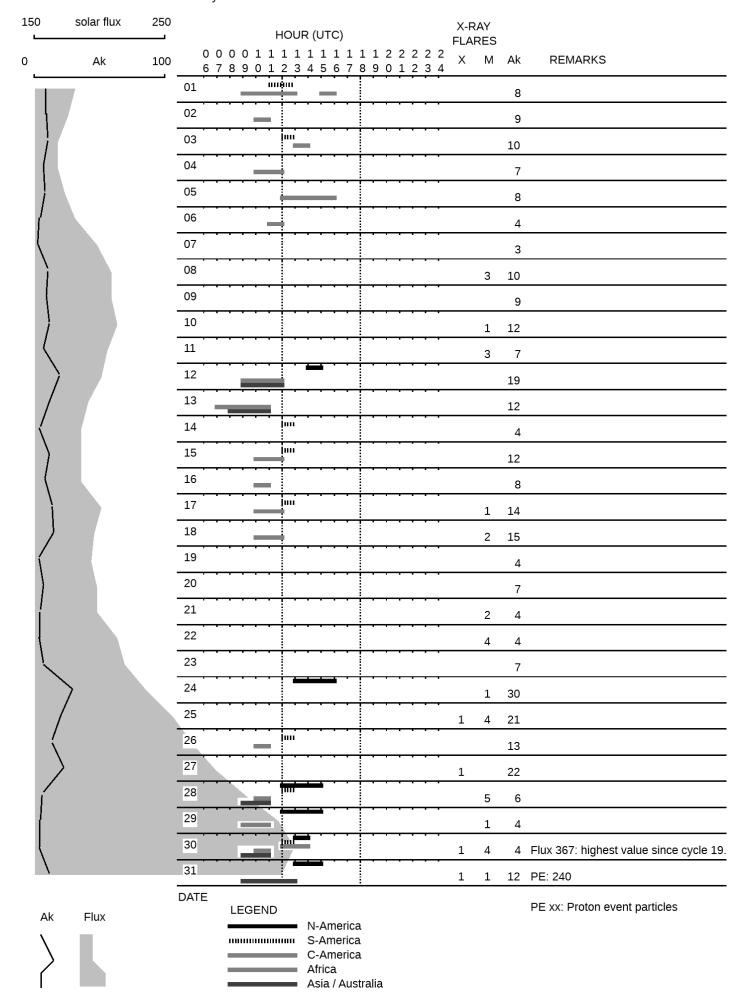


50 MHz F2 propagation review of December 199 by PA2HJS



solar flux 150 250 $6\ 7\ 8\ 9\ 0\ 1\ 2\ 3\ 4\ 5\ 6\ 7\ 8\ 9\ 0\ 1\ 2\ 3\ 4$ HOUR (UTC) REMARKS 01 NIL 02 9L1US/B, FY7THF weak, 5 mins <u>....</u> 03 PA2HJS, PA3BFM QRT. Others wkd 6W etc. 04 9L, TR, HC, HC8, TI, VE1, W4 05 VO1MUN, VE1, W1 06 VE1, W1,2,3,4,5, variable signals 07 VE1 80 6W, 9L, VE1, W1,2, Backscatter from Europe 09 VE1, W1,2,3,HC, Backscatter from Europe 10 VE1YX in and out 11 NIL W2,3 weakly 12 13 FY7THF, KP2 14 NIL NIL 15 16 6W, TU, VE1, W1, FY7THF 1200-1220 UTC 17 QRT 18 QRT 19 QRT 20 QRT 21 QRT 22 NIL 23 NIL 24 NIL 25 TU 26 W1 27 PZ1EL wkg G, hr NIL 28 VE1YX weak 29 NIL VO1MUN 30 NIL 31 DATE Comment: LEGEND December 1990 was again very disappointing compared N-America with the year before when we had almost daily openings S-America to several areas. Remarkably, the solar flux values did not C-America differ from the values of last year, but the openings were Africa not to be compared. This illustrates, that the solar flux Asia / Australia values are not the only ones to be considered in

relationship with 50 MHz F2 openings.



HOUR (UTC)

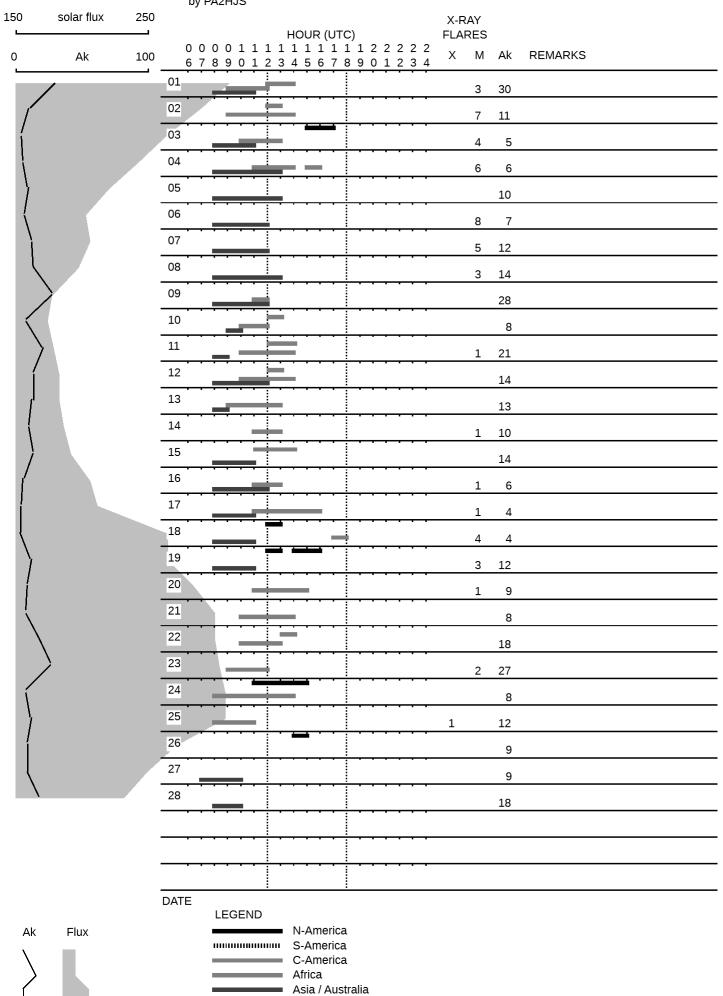
) solar flux 2		0 1 2 3 4 5 6 7 8	
	01		West Africa, FY7THF, PZ1EL, PT7BCN
	02	_	9L1US/B
	03		9L1US/B, FY7THF shortly
	04		9L, TR
	05		9L1US/B, Broadcast stn 50.080 in and out
	06		9L1US/B
	07		NIL
	08		NIL
	09		No F2 propagation. Es reported
	10		NIL
	11		No F2 propagation. Es reported
	12	_	49.75 TV, 9L1US/B, 6W1QC, VE1
	13		49.75 TV, 9L, 50.080. (9L1US/B HRD 0700 - 0705. F2
	14		FY7THF
	15		9L1US/B, 50.080 carrier, FY7THF, YV, PZ
	16		ZD8VHF
	17		9L1US/B, 50.080 carrier, FY7THF
	18		9L, TU
	19		NIL
	20		NIL
	21		NIL
	22	• • • • • • • • • • • • • • • • • • • •	NIL
	23	• • • • • • • • • • • • • • • • • • • •	NIL
	24	·	VE1, VO1, W1,2
	25	• • • • • • • • • • • • • • • • • • • •	NIL
	26	_	9L, HC, HC8
	27	• • • • • • • • • • • • • • • • • • • •	NIL
	28		49.75 TV, 9L, FY, VE1, W1
	29		50.080 carrier, 9L, TU, VO1, VE1, W1
	30	w 	Flux 367: highest value since cycle 19. Good prop.
	31	7—	49.75 TV vy strong, VE1, W1

| N-America | S-America | C-America | Africa | Asia / Australia |

Comment:

January 1991 was a remarkable month concidering F2 propagation. Quite a number of openings to West Africa and the Northern part of South America. The very high solar activity produced unexpected openings. To my opinion, the upward trend in the solar activity during the last few months shows that the current solar cycle has not yet lost its 50 MHz F2 ionising capabilities and one can only speculate about the things to come. 73, gd dx! Henk, PA2HJS

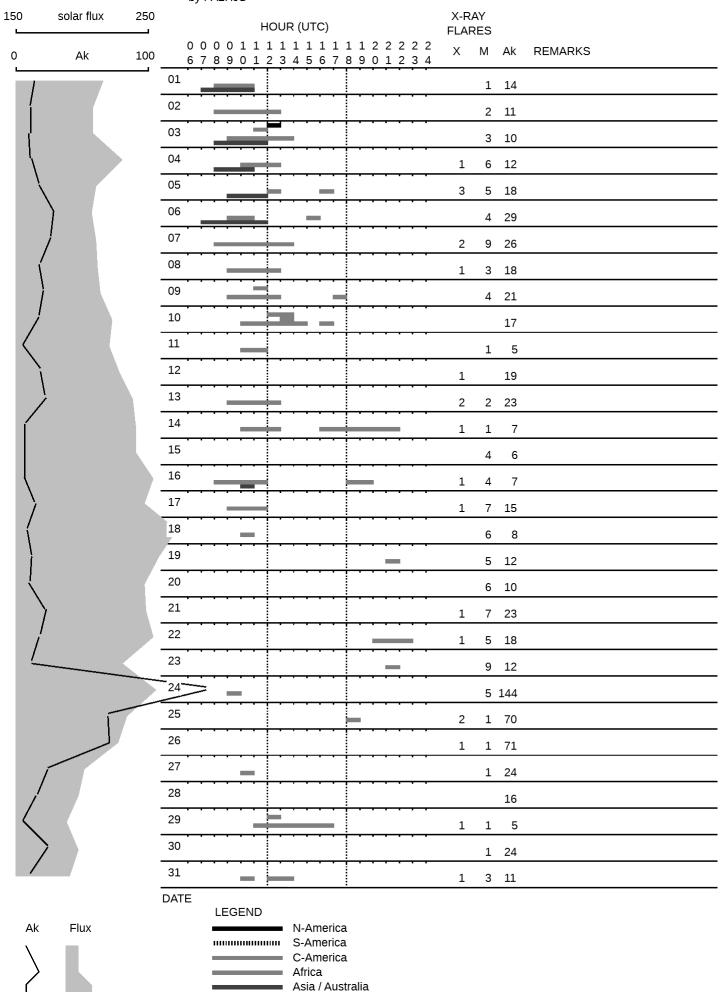
50 MHz F2 propagation review of February 1991 by PA2HJS



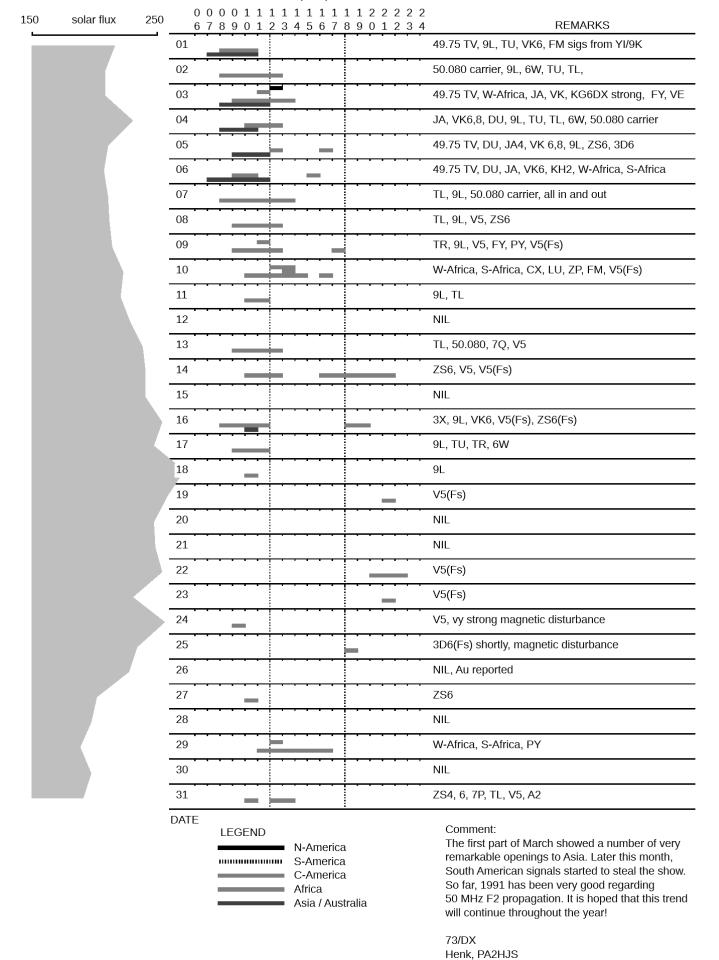
HOUR (UTC)

150 solar flux	250	0 0 0 1 1 1 1 7 8 9 0 1 2 3			
	01				 49.75 TV, 9L, 50.080 carrier, 3X, KP2
	02			<u> </u>	 ZD8, 50.080 carrier, 9L, 3X, 6W, ZS5 (+E)
	03			 	 49.75 TV, TU, TR, 9L, ZD8, 6W, VE1-3, W1-4,8,9
	04			<u> </u>	 49.75 TV, 9L,TU, 9L, 3X, TR, 3X
	05			 	 49.75 TV, DU
	06			<u> </u>	 49.75 TV, DU
	07			 	 49.75 TV, JA6, DU
	08			<u> </u>	 49.75 TV, VK3,5, DU, JA5,6
	09			 	 49.75 TV, DU, 9L, 6W, ZD8
	10			<u> </u>	 VK2 shortly, 50.080 carrier, 9L, TU, PZ, FY
	11		<u></u>	<u> </u>	 KG6, 9L, 3X, 50.080, TL, PT7, TU, 6W, FY, OA
	12	<u></u>		<u> </u>	 9M TV, A6 TV, 50.080, 9L, TU, 3X, TL, ZD8, FY
	13			<u> </u>	 49.75 TV shortly, 9L, TL, 50.080 carrier
	14			<u> </u>	 9L, TR
	15			<u> </u>	 49.75 TV, JA1,2,4, VK8,4, 080 carrier, 9L, PT7, FY
	16			<u> </u>	 49.75 TV, VK8 shortly, JA2,4 shortly, DU, 6W, 9L, ZS6
	17			<u> </u>	 VK8, KH2, VS6, YB, TR, 9L, TU, ZD8
	18			<u> </u>	 DU, W1 shortly, V5 (Spread-F)
	19			<u> </u>	 49.75 TV, DU, VE1, W1
	20			<u> </u>	 TL, TR, 9L, TU, 3X
	21			<u> </u>	 9L, TR, TL, 6W
	22			<u> </u>	 9L, TL, PYoF vy short
	23			<u> </u>	 TU, 9L, 6W, 50.080 carrier
	24			<u> </u>	 TL, 9L, 6W, TR, VO1, VE1,2,3, W1,2,3,4
	25			<u> </u>	 TL, 9L
	26			1	 W1 shortly
	27			1	 49.75 TV, VK3,4
	28			1	 A6 TV
	•			1	
				<u> </u>	
		• • • • • • • • • • • • • • • • • • • •		<u> </u>	
	DATE	LECEND		•	Comment:
		N-America S-America Africa Asia / Aus		a a	The peak in the solar activity in January initiated a perior of very good propagation in February. This month did compensate much for the disappointing results during the last months of 1990!
					73, gd dx! Henk, PA2HJS

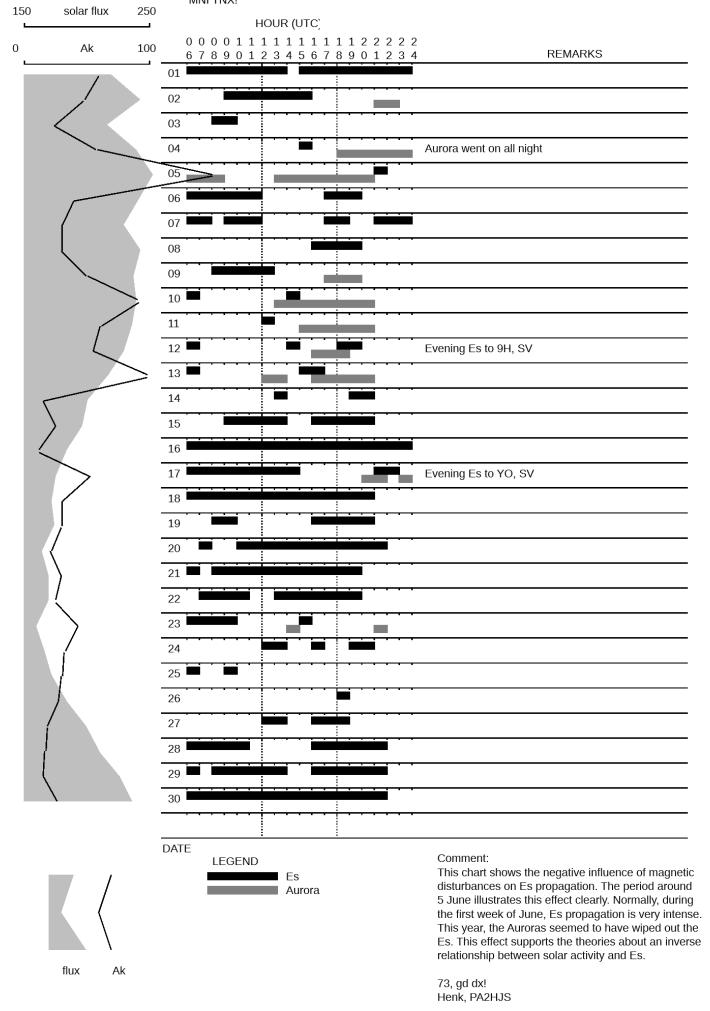
50 MHz F2 propagation review of March 1991 by PA2HJS



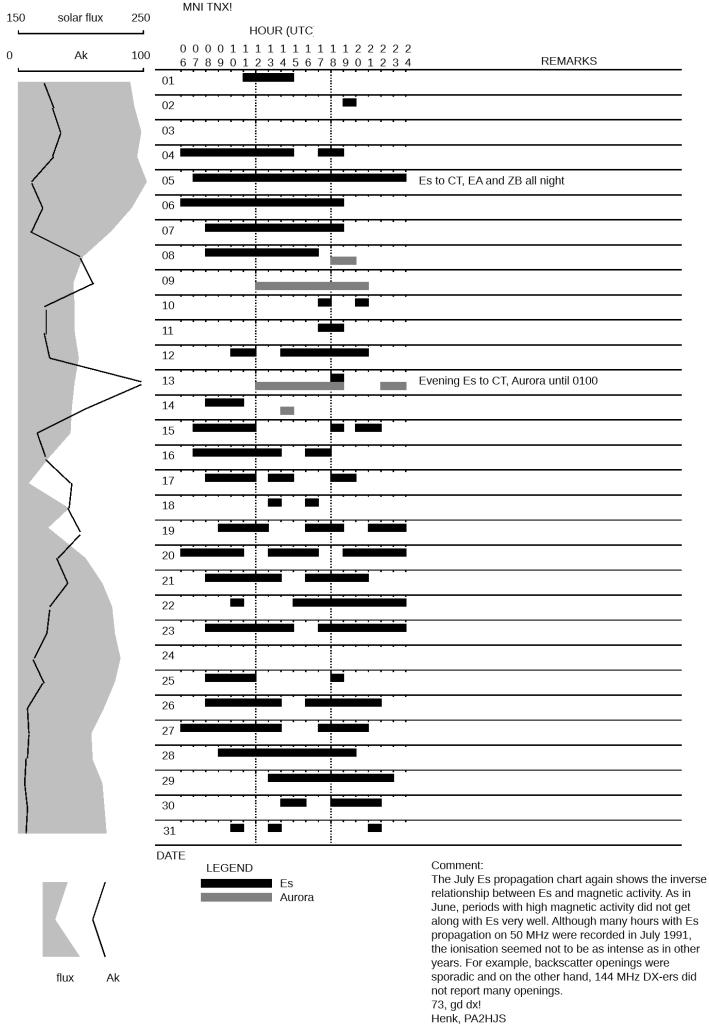
HOUR (UTC)



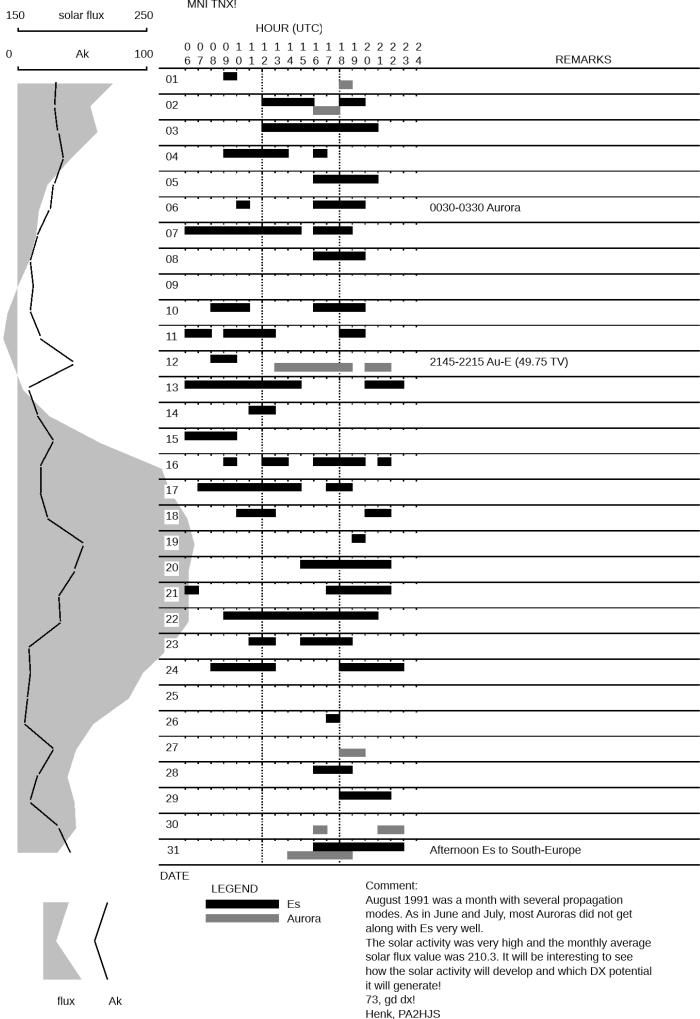
50 MHz Es propagation review of June 1991 by PA2HJS including info from PA3EUI and others. MNI TNX!



50 MHz Es propagation review of July 1991 by PA2HJS including info from PA3EUI and others.

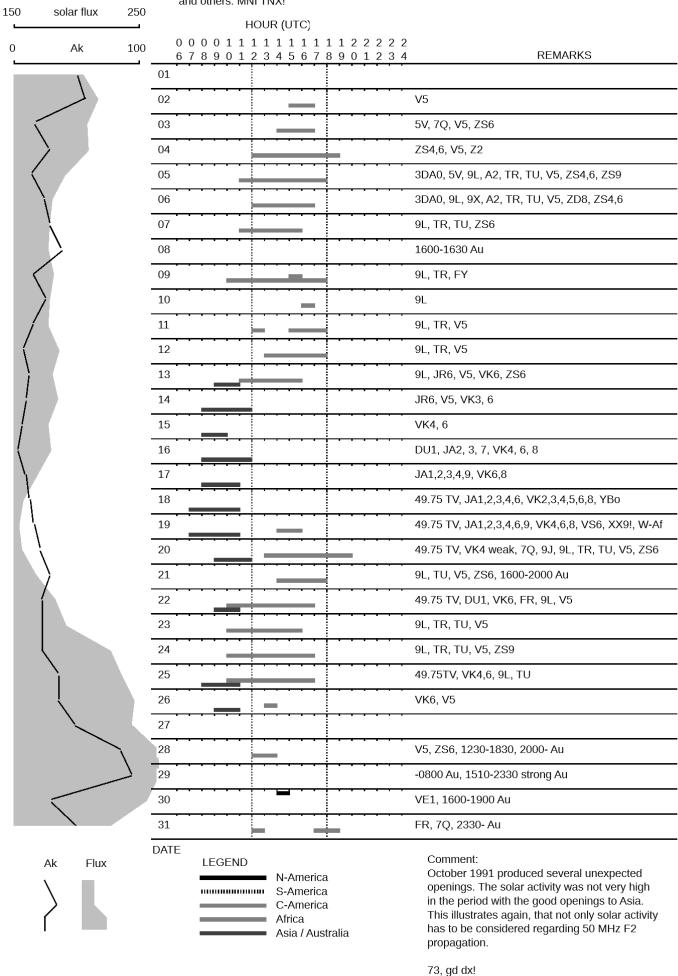


50 MHz Es propagation review of August 1991 by PA2HJS including info from PA3EUI and others. MNI TNX!



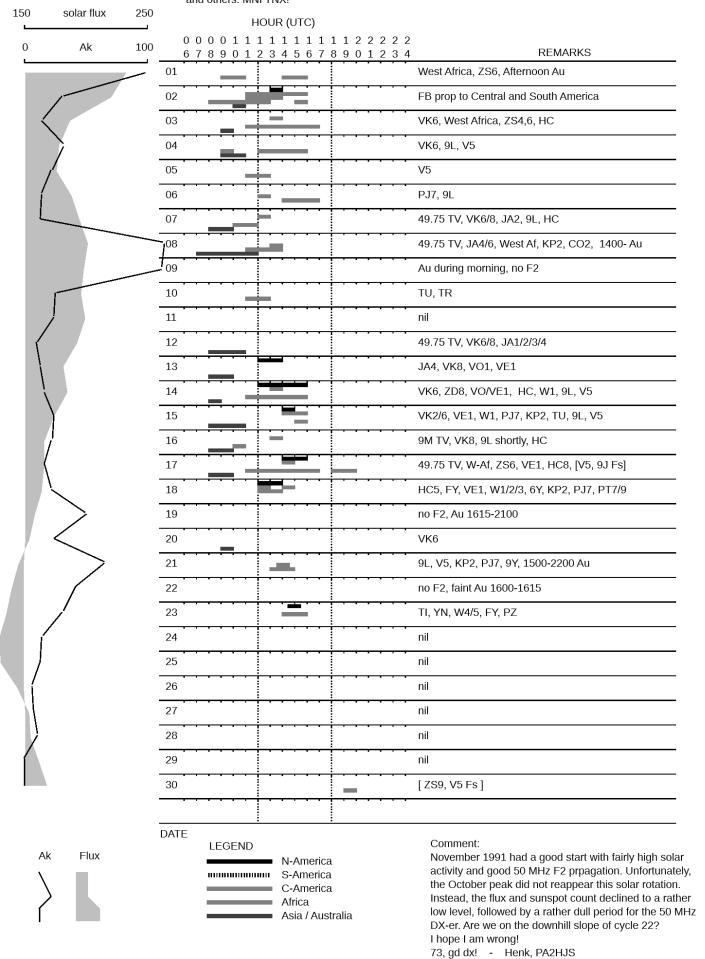
50 MHz Es propagation review of September 1991 by PA2HJS including info from PA3EUI and others. MNI TNX! 150 solar flux 250 HOUR (UTC) $0\ 0\ 0\ 0\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 2\ 2\ 2\ 2\ 2$ 0 Αk 100 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 REMARKS 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 DATE Comment: LEGEND In september, the usual decline of Es took place. The Es magnetic activity was much less than the foregoing Aurora months and that seemed the reason for a reasonable amount of Es this month. On the 28th, a remarkable F2 (Es linked?) opening was reported to VK4, 6 and 8. This was the first time that Australia could be contacted in September! Next month, the overviews will switch to F2 reports. flux Αk I hope to mark a lot of openings! 73, gd dx! Henk, PA2HJS

50 MHz F2 propagation review of October 1991 by PA2HJS including info from PA3EUI, PE1LNX and others. MNI TNX!

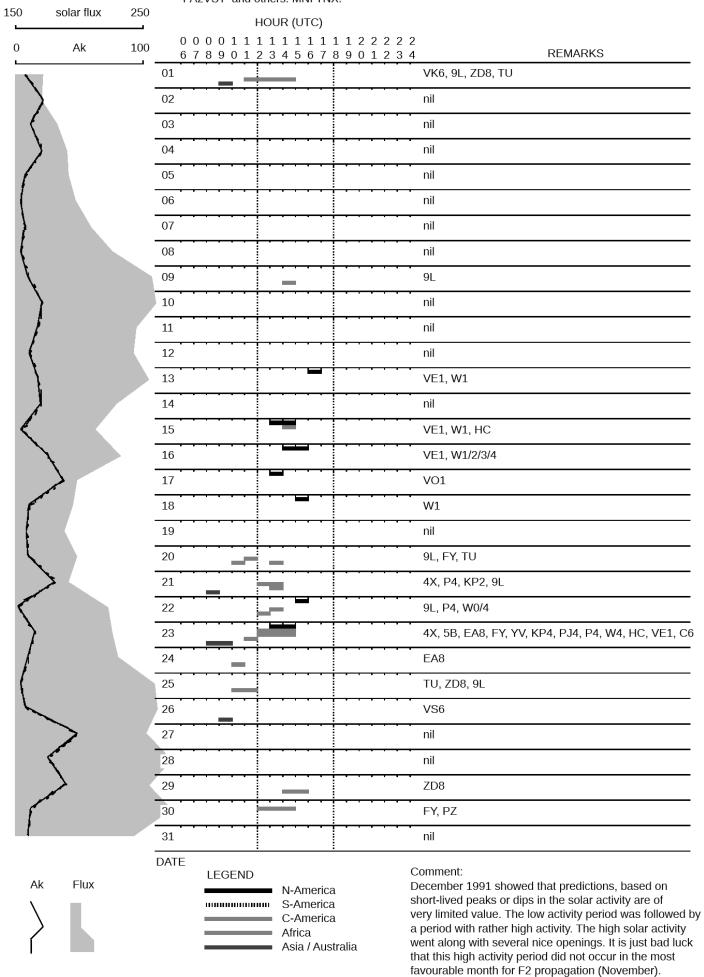


Henk, PA2HJS

50 MHz F2 propagation review of November 1991 by PA2HJS including info from PA3EUI, PA2VST and others. MNI TNX!



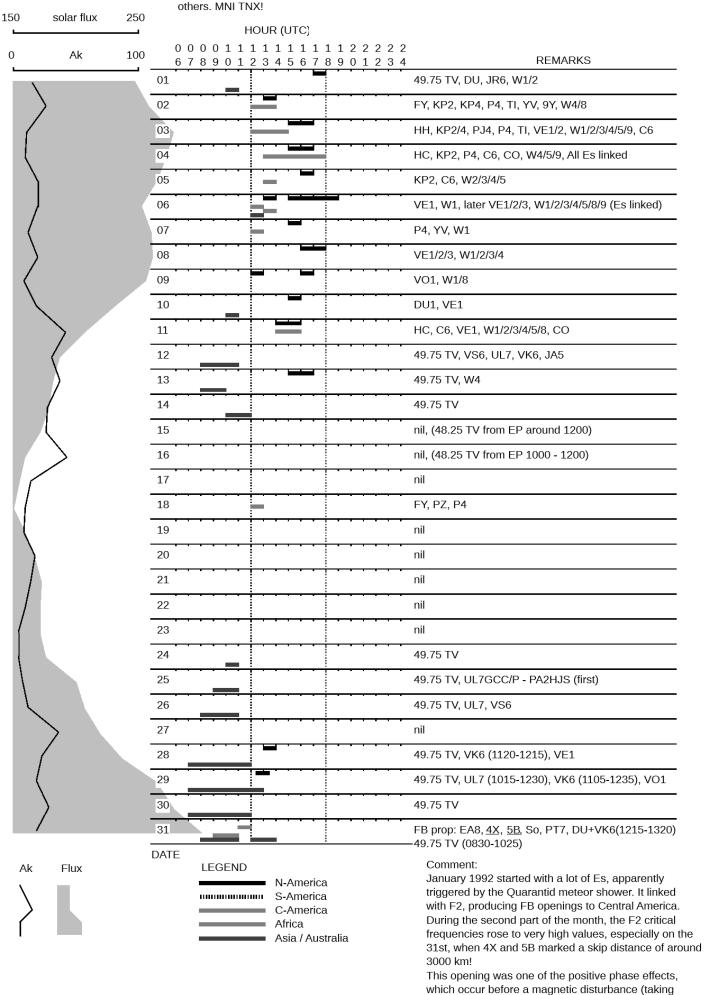
50 MHz F2 propagation review of December 1991 by PA2HJS including info from PA3EUI, PA2VST and others. MNI TNX!



Nevertheless, December 1991 made up a little for the

missing openings in November! 73, gd dx! - Henk, PA2HJS

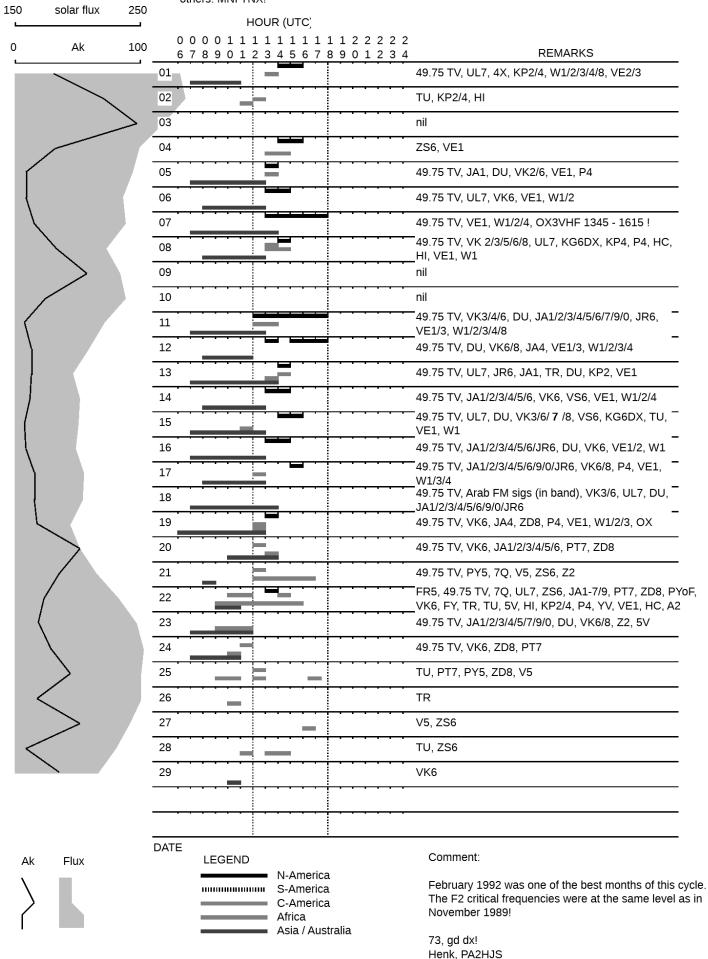
50 MHz F2 propagation review of January 1992 by PA2HJS including info from PA3EUI and others, MNI TNXI



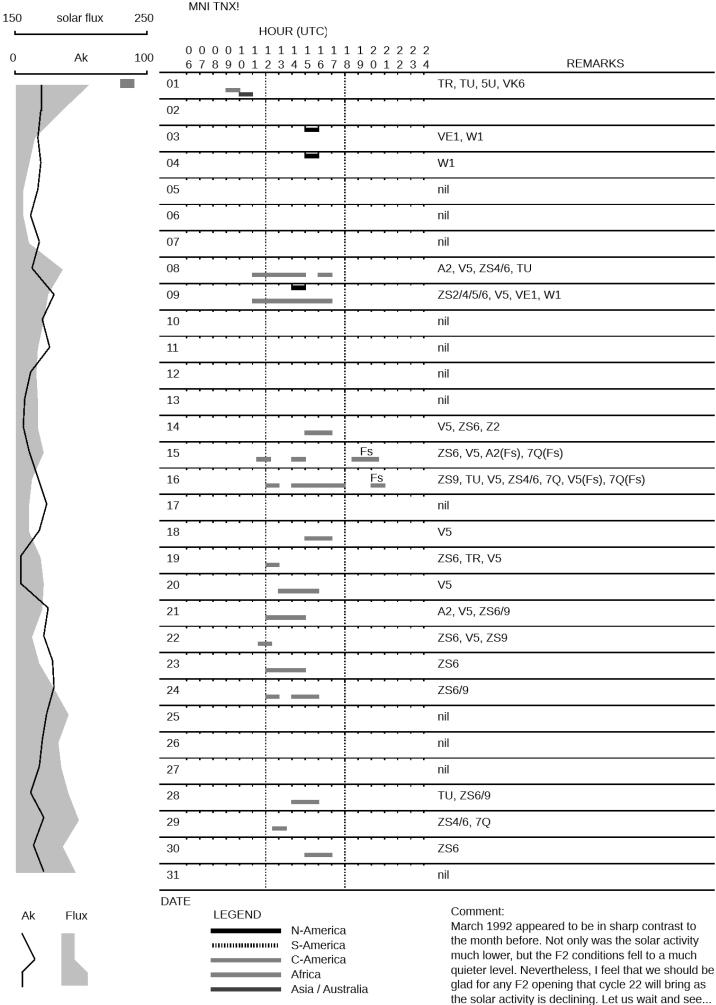
73, gd dx! Henk, PA2HJS

place on 1 February).

50 MHz F2 propagation review of February 1992 by PA2HJS including info from PA3EUI and others. MNI TNX!



50 MHz F2 propagation review of March 1992 by PA2HJS including info from PA3EUI and others.



73, gd dx! Henk, PA2HJS

50 MHz propagation review of April 1992 by PLEASE NOTE THE PA2HJS including info from PA3EUI and others. DIFFERENT FLUX SCALE MNI TNX! <u>50</u> <u>250</u> solar flux HOUR (UTC) $0\ 0\ 0\ 0\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 2\ 2\ 2\ 2\ 2$ 0 Αk 100 **REMARKS** $6\ 7\ 8\ 9\ 0\ 1\ 2\ 3\ 4\ 5\ 6\ 7\ 8\ 9\ 0\ 1\ 2\ 3\ 4$ 01 nil 02 nil 03 V5, ZS6, ZS9 04 A2 05 V5, ZS4/6, TU 06 nil 07 nil ZS6 80 09 A2, V5, ZS6, 9H 10 V5, 7Q 11 12 V5, ZS6, Z2, 7P 13 nil 14 nil 15 nil 16 nil 17 15, ZS6, 9H 18 ZS6 19 nil 20 nil 21 nil 22 nil 23 nil 24 49.75 TV, OH, YO, F, CX, LU, PY5, ZP, 7Q(Fs) 25 49.75 TV 26 nil 27 49.75 TV 28 49.75 TV 29 nil 30 nil DATE Comment: **LEGEND** Flux The decline of the solar cycle is now clearly Es Europe present. I had to adjust the solar flux scale at the Multi hop Es left. The scale "centers" at a flux value of 150 to Es + F2 enable a better distinction between "high" and Es + Fs "low" solar emission. In contrast to last years F2 only graphs (with only Es and/or Aurora), the ones for Aurora 1992 will show the propagation mode more in detail.

> 73, gd dx! Henk, PA2HJS