HF PACTOR

- Equipment HF Radio and TNC
- Center frequency vs display frequency
- ALC/NB/Filters and there importance
- Updating the propagations tool and information
- Finding the best stations
- Pactor frequencies and bands
- Sunspot #'s Solar Flux plus A and K Indices

Equipment

Setup

Propagation & Solar

EQUIPMENT

 HF Radio - Looking for a radio that has level setting for Audio input and Audio Output

 Pactor Modem - Looking for a SCS PTC series modem that will do P1, P2 & P3 or a SCS Dragon that will do up to P4

Equipment required

Kenwood TS-480Sat/HX



Sat -100 watts with Auto tuner

HX – 200 wats without and Auto tuner

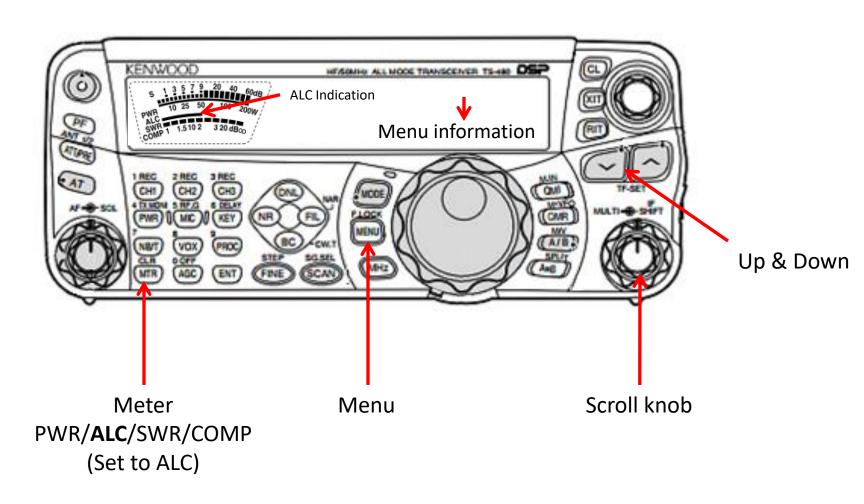
SCS PTC Series or Dragon



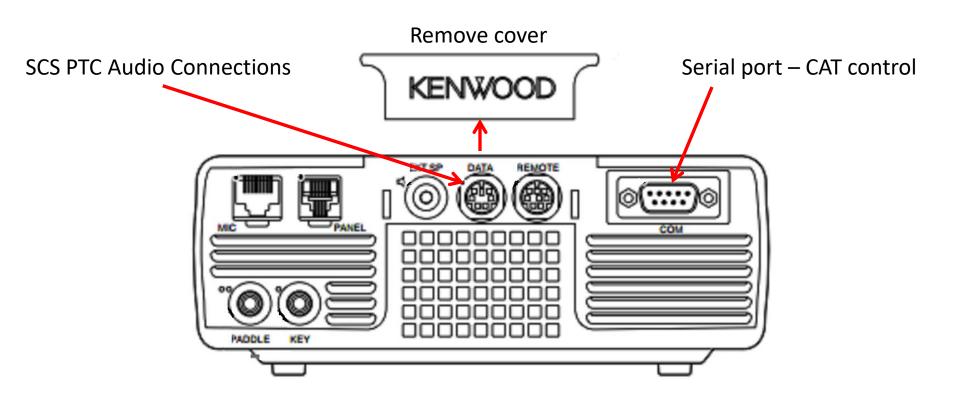


TS-480SAT - Head controls

34 multi function buttons and 4 knobs



Kenwood TS-480- Rear Panel Connections



Menu – Audio in/out

Group	Menu No.	Function	Selections	Default	Ref. Page
Data Comm.	46	AF input level for Data communications (0: minimum ~ 9: maximum)	0 to 9	4	77, 78
	47	AF output level for Data communications (0: minimum ~ 9: maximum)	0 to 9	4	77, 78

Change as required.

Typical

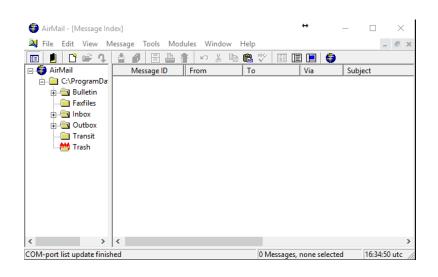
Menu 46 = 2

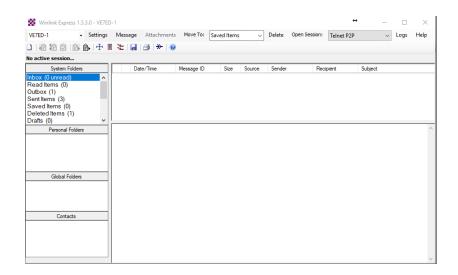
Menu 47 = 2

Setting up Pactor audio

You will require the following software with the comport and baurd rate setup and tested.

Airmail & Winlink Express

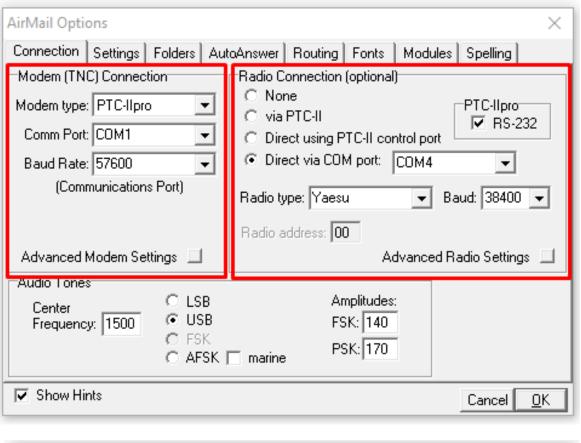


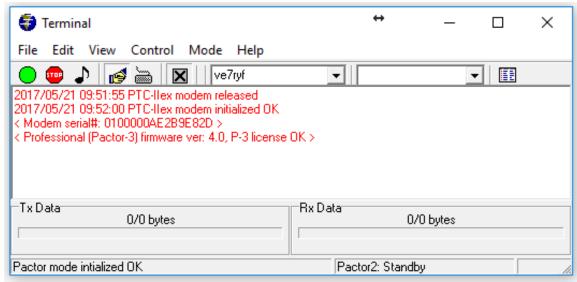


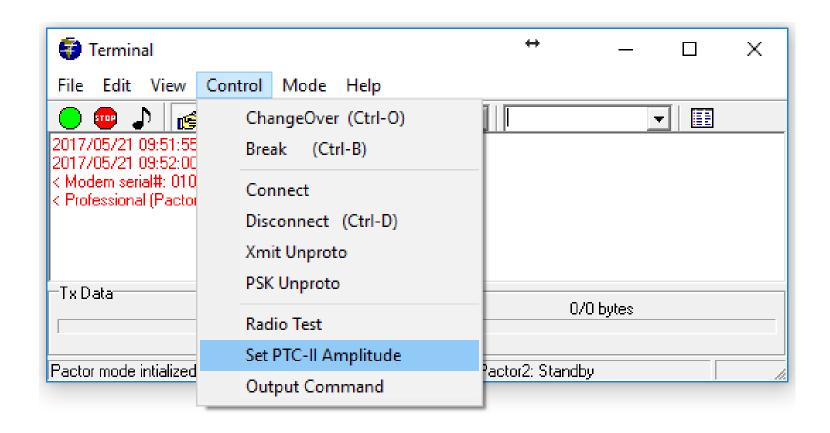
Setup - Airmail

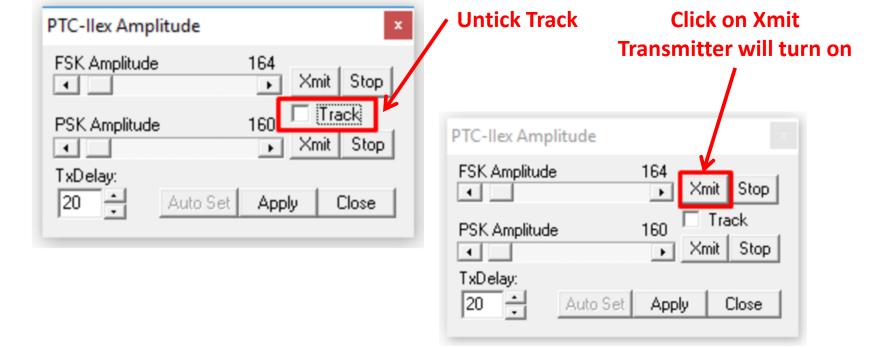


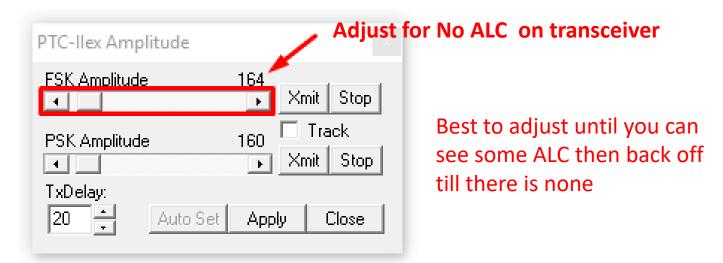
SCS Firmware – Version 4.0

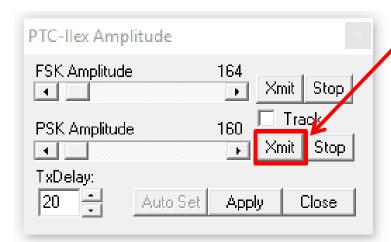






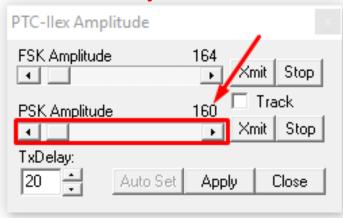


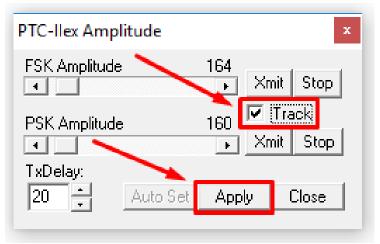




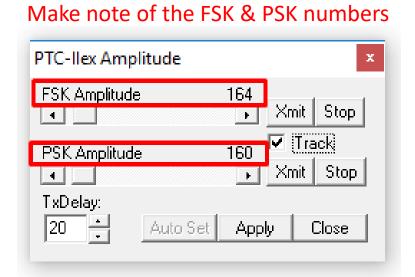
Click on Xmit Transmitter will turn on

Adjust for No ALC on transceiver





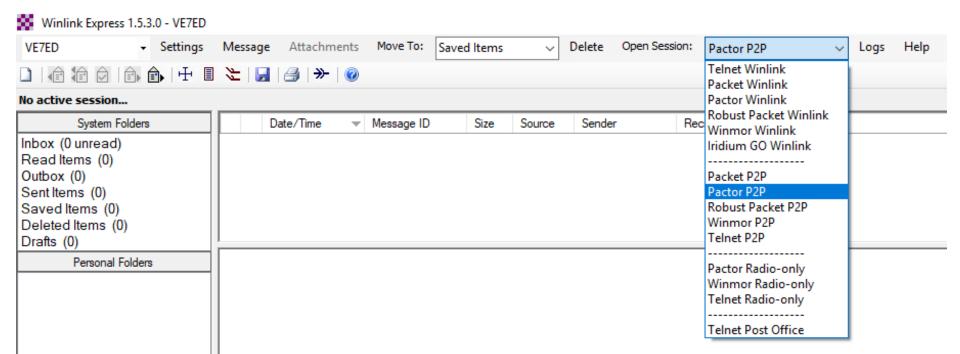
Tick the Track box and click apply



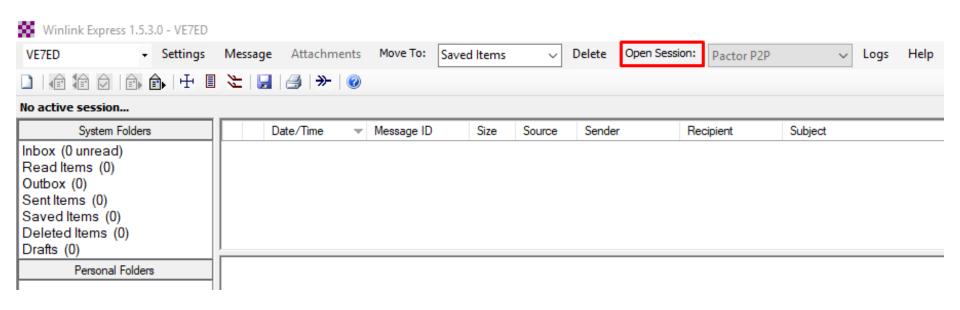
NOTE: In Winlink the PSK & FSK are reversed

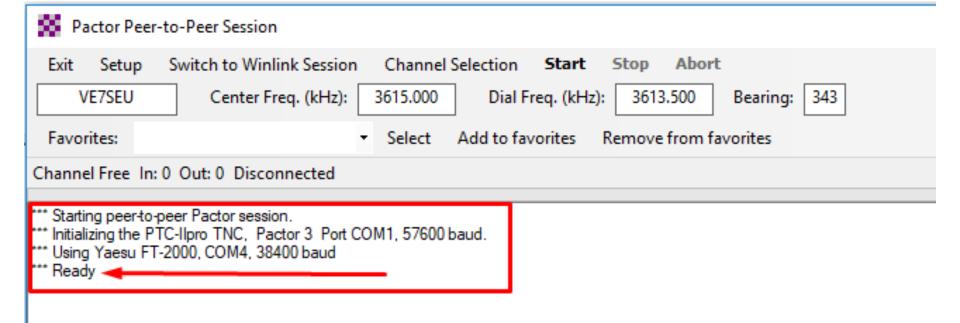
Setup - Winlink Express

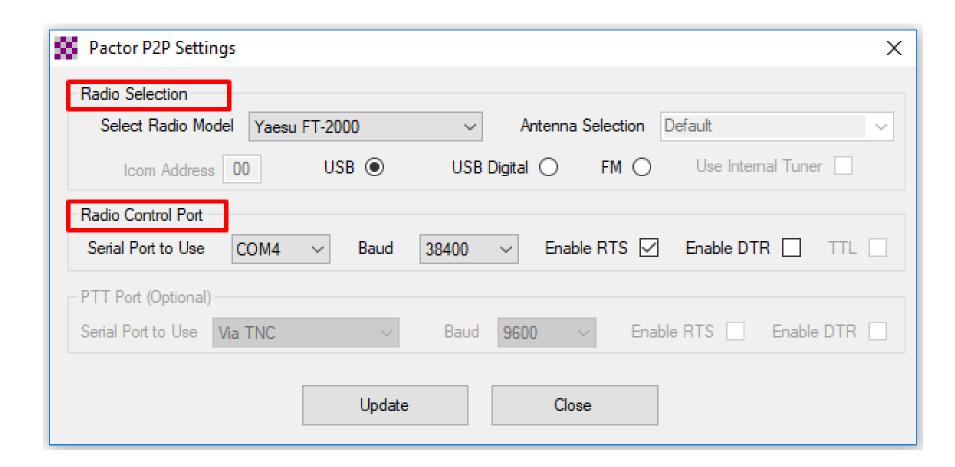


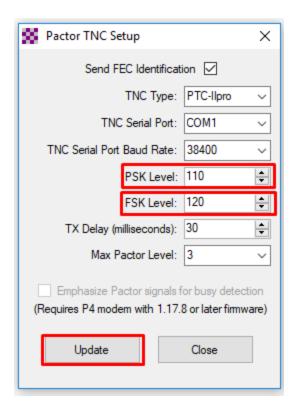


Global Folders





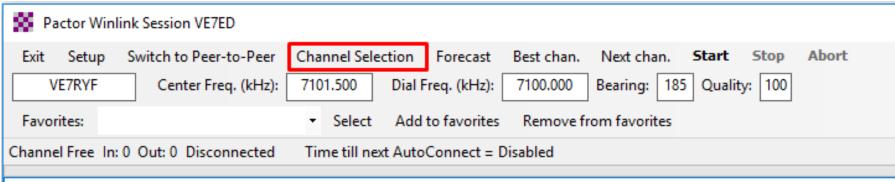




NOTE: In Airmail the PSK & FSK are reversed

Airmail will get you very close and you can fine tune in Winlink by changing the number then click on update and retest.

Repeat as necessary till you achieve No ALC

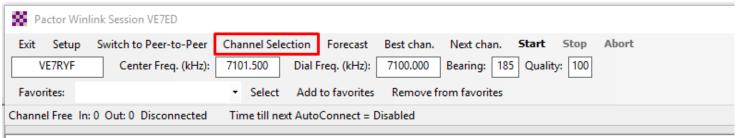


^{***} Starting Winlink Pactor session.

^{***} Initializing the PTC-Ilpro TNC, Pactor 3, Port COM1, 38400 baud.

^{***} Using Yaesu FT-2000, COM4, 38400 baud

^{***} Ready

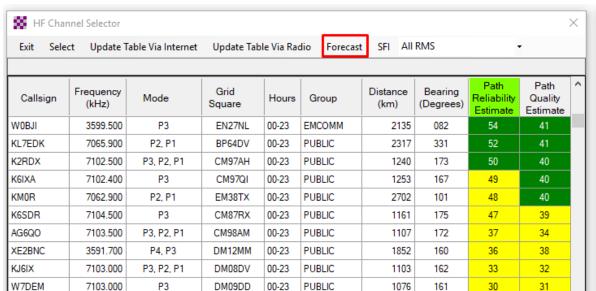


*** Starting Winlink Pactor session.

*** Initializing the PTC-Ilpro TNC, Pactor 3, Port COM1, 38400 baud.

*** Using Yaesu FT-2000, COM4, 38400 baud *** Ready

HF Chai					_					
Exit Sele	ct Update T	able Via Internet	Update Tab	ole Via Rad	dio Forecast	SFI All	RMS	•		
										_
Callsign	Frequency (kHz)	Mode	Grid Square	Hours	Group	Distance (km)	Bearing (Degrees)	Path Reliability Estimate	Path Quality Estimate	^
W0BJI	3599.500	P3	EN27NL	00-23	EMCOMM	2135	082	54	41	ŀ
KL7EDK	7065.900	P2, P1	BP64DV	00-23	PUBLIC	2317	331	52	41	
K2RDX	7102.500	P3, P2, P1	CM97AH	00-23	PUBLIC	1240	173	50	40	
K6IXA	7102.400	P3	CM97QI	00-23	PUBLIC	1253	167	49	40	
KM0R	7062.900	P2, P1	EM38TX	00-23	PUBLIC	2702	101	48	40	
K6SDR	7104.500	P3	CM87RX	00-23	PUBLIC	1161	175	47	39	
AG6QO	7103.500	P3, P2, P1	CM98AM	00-23	PUBLIC	1107	172	37	34	
XE2BNC	3591.700	P4, P3	DM12MM	00-23	PUBLIC	1852	160	36	38	
KJ6IX	7103.000	P3, P2, P1	DM08DV	00-23	PUBLIC	1103	162	33	32	
W7DEM	7103.000	P3	DM09DD	00-23	PUBLIC	1076	161	30	31	
WL7CVG	3589.000	P3, P2, P1	BP51CE	00-23	PUBLIC	2167	321	29	37	
KL7EDK	10147.700	P3, P2, P1	BP64DV	00-23	PUBLIC	2317	331	28	33	
WA6TVD	7103.500	P3	DM09DJ	00-23	PUBLIC	1049	161	28	29	
WL7CVG	10143.700	P3, P2, P1	BP51CE	00-23	PUBLIC	2167	321	27	32	
W5KAV	5368.000	P3, P2, P1	CN86KT	00-23	PUBLIC	182	166	26	29	
AB7AA	3589.000	P3	DM42KH	00-23	EMCOMM	2074	145	23	36	
AB7AA	3582.500	P2. P1	DM42KH	00-23	EMCOMM	2074	145	23	36	



PUBLIC

PUBLIC

PUBLIC

PUBLIC

PUBLIC

EMCOMM

EMCOMM

00-23

00-23

00-23

00-23

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00-23

2167

2317

1049

2167

182

2074

321

331

161

321

166

145

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29

32 29

36

36

WL7CVG

KL7EDK

WA6TVD

WL7CVG

W5KAV

AB7AA

AB7AA

3589.000

10147.700

7103.500

10143.700

5368.000

3589.000

3582.500

P3, P2, P1

P3, P2, P1

P3

P3, P2, P1

P3, P2, P1

P3

P2, P1

BP51CE

BP64DV

DM09DJ

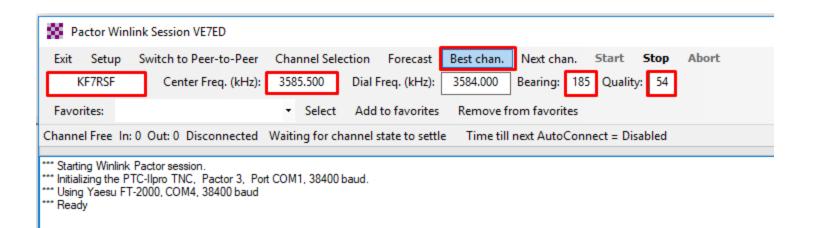
BP51CE

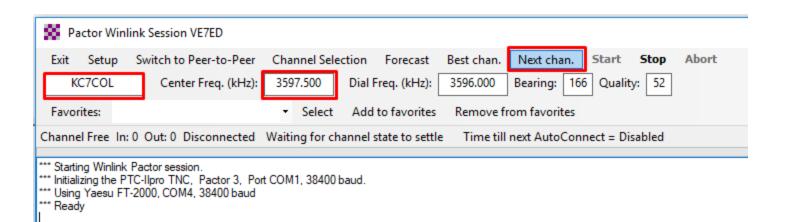
CN86KT

DM42KH

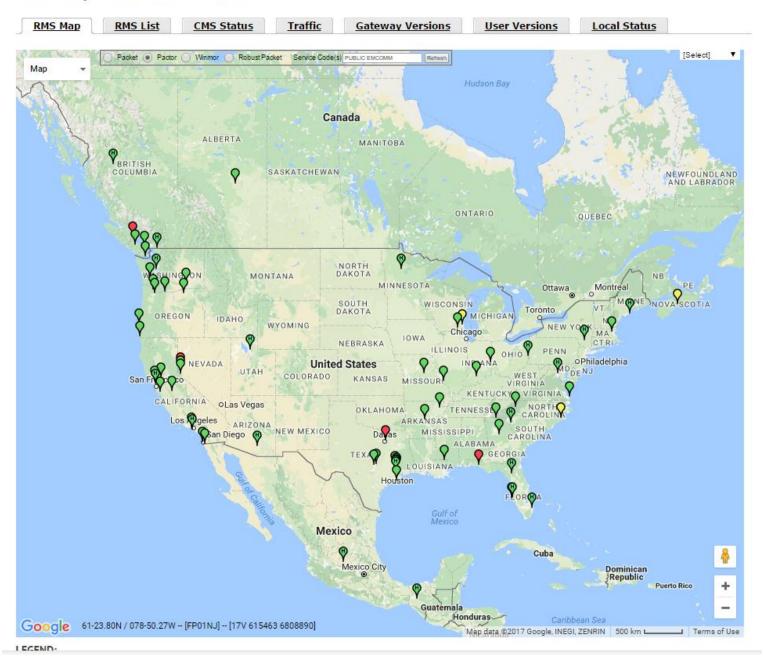
DM42KH

Propagation Forecast for AB7 A			_	□ ×
Hour (Z)	3582.500	3589.000	7066.500	7103.400
00	0	0	21	22
01	2	3	32	32
02	17	17	35	35
03	23	23	37	37
04	29	29	38	38
05	31	31	39	39
06	31	31	39	39
07	31	31	39	39
08	31	31	39	39
09	33	33	41	41
10	36	36	43	43
11	38	38	44	44
12	31	31	43	43
13	24	24	39	39
14	14	14	36	36
15	0	0	25	25
16	0	0	20	20
17	0	0	14	14
18	0	0	6	7
19	0	0	3	3
20	0	0	2	2
21	0	0	3	3
22	0	0	8	8
23	0	0	16	16





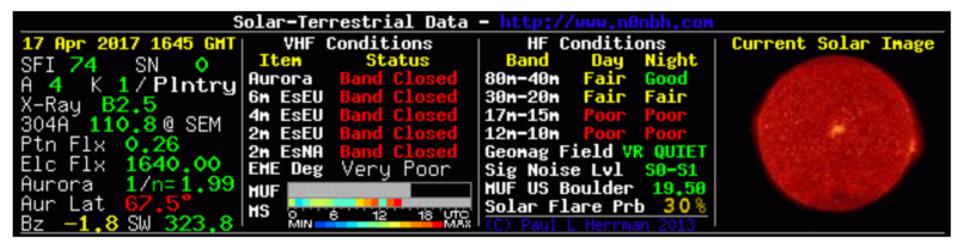
Live System Information



Solar and Propagation

- VARPA www.varpa.bc.ca
- Space Weather www.spaceweather.com
- NOAA Space www.swpc.noaa.gov/
- WM7D wm7d.net

Solar – Terrestrial Data

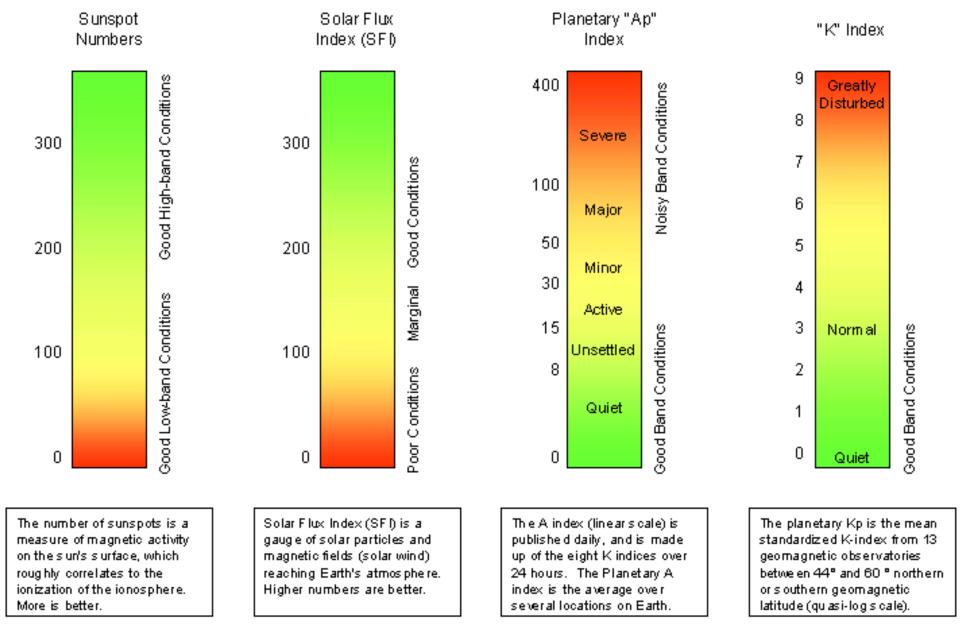


VOACAP

Voice Of America Coverage Analysis Program

- It is a free professional high-frequency (HF)
 propagation prediction software from NTIA/ITS,
 originally developed for Voice of America (VOA).
- Winlink use's it but it is out of date! (2012)

 Get the new version (2016) from Greg Hand's site www.greg-hand.com/versions/itshfbc_161207.exe



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Questions?

Power points will be on the VARPA website