

CQWW CW 2012 à FY5KE





« Si à 50 ans,
on n'a pas gagné un CQWW,
on a quand même raté sa vie »

Librement adapté de Jacques S.

Sommaire

- Rappels sur les concours et le CQWW
- Installation
- Analyse pré-concours
- Analyse du trafic
- Critique
- Prochaines activités

Principes de base

- Limité dans le temps
- $\text{Score} = \text{Points QSO} \times \text{Multiplicateurs}$

CQ World Wide DX Contest

- Établi en 1948
- Plus grand concours de l'année
- Plus de 20 000 participants
- Plus de 2 millions de QSO réalisés

CQ World Wide DX Contest



GI6TK #1 Monde 1948 CW
817 Q – 148 Mults
452 454 points

Catégories

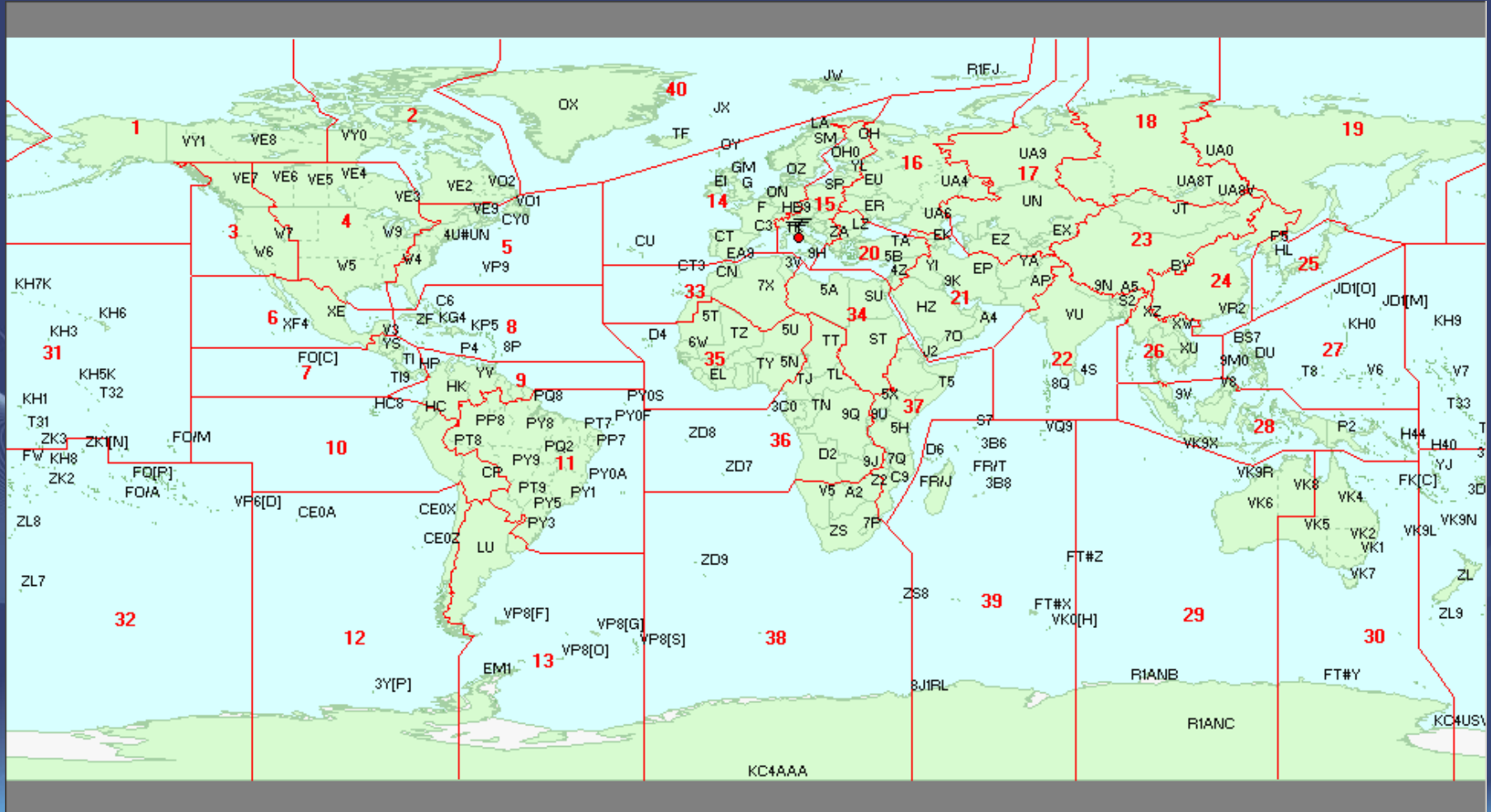
- Mono-Op ou Multi-Op
- Mono-bande ou Multi-bandes
- QRP, Low Power ou High Power
- Assisté ou Non-Assisté

- Catégorie reine : SOAB HP

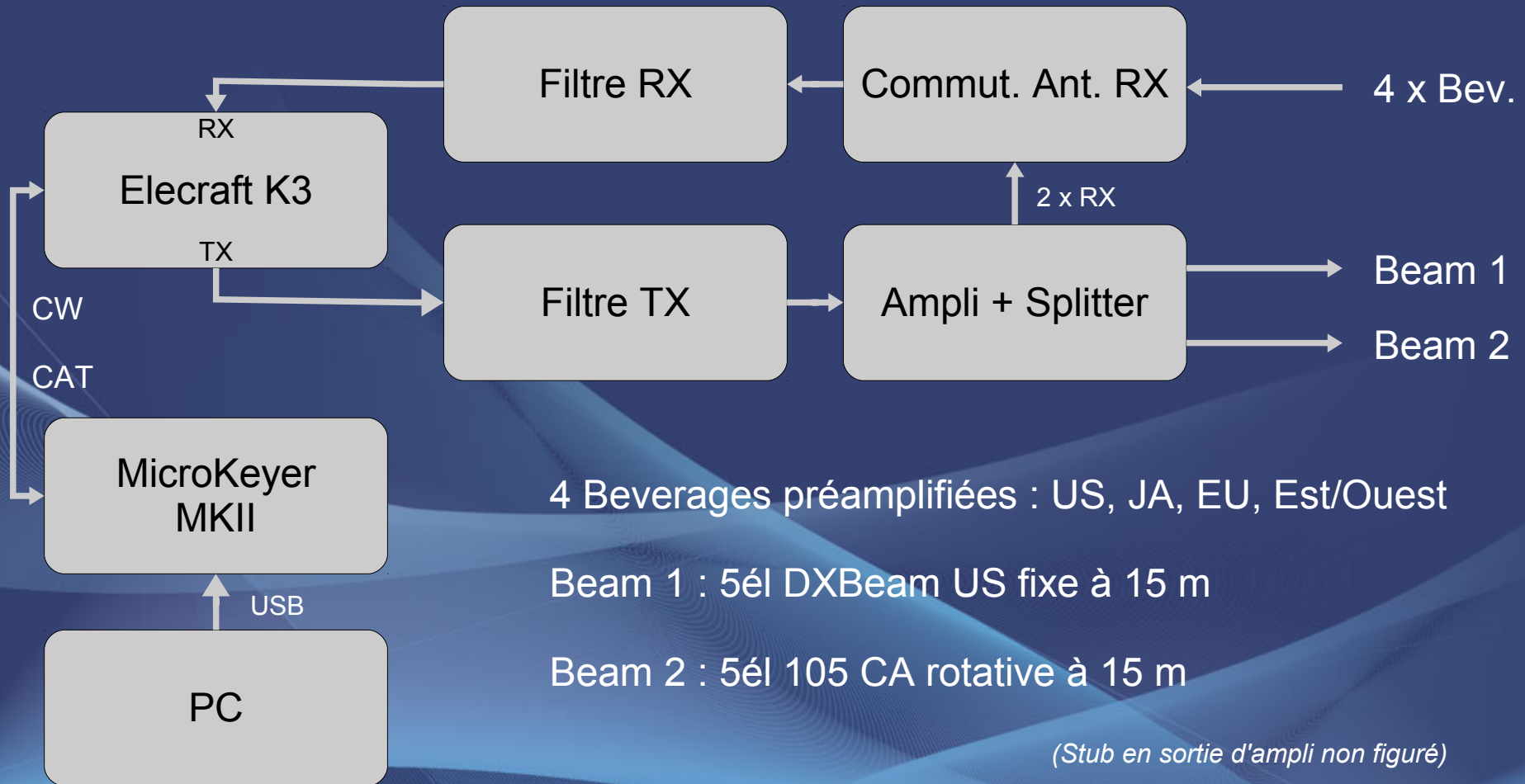
Règlement

- 48 heures
- Points QSO en fonction du QTH
 - Même pays : 0 point
 - Même continent : 1 point (sauf NA/NA = 2 pts)
 - Autre continent : 3 points
- Multiplicateurs (par bande)
 - Zones WAZ (40)
 - Pays DXCC (340 à ce jour) + Exceptions (7)

Zones WAZ



Synoptique



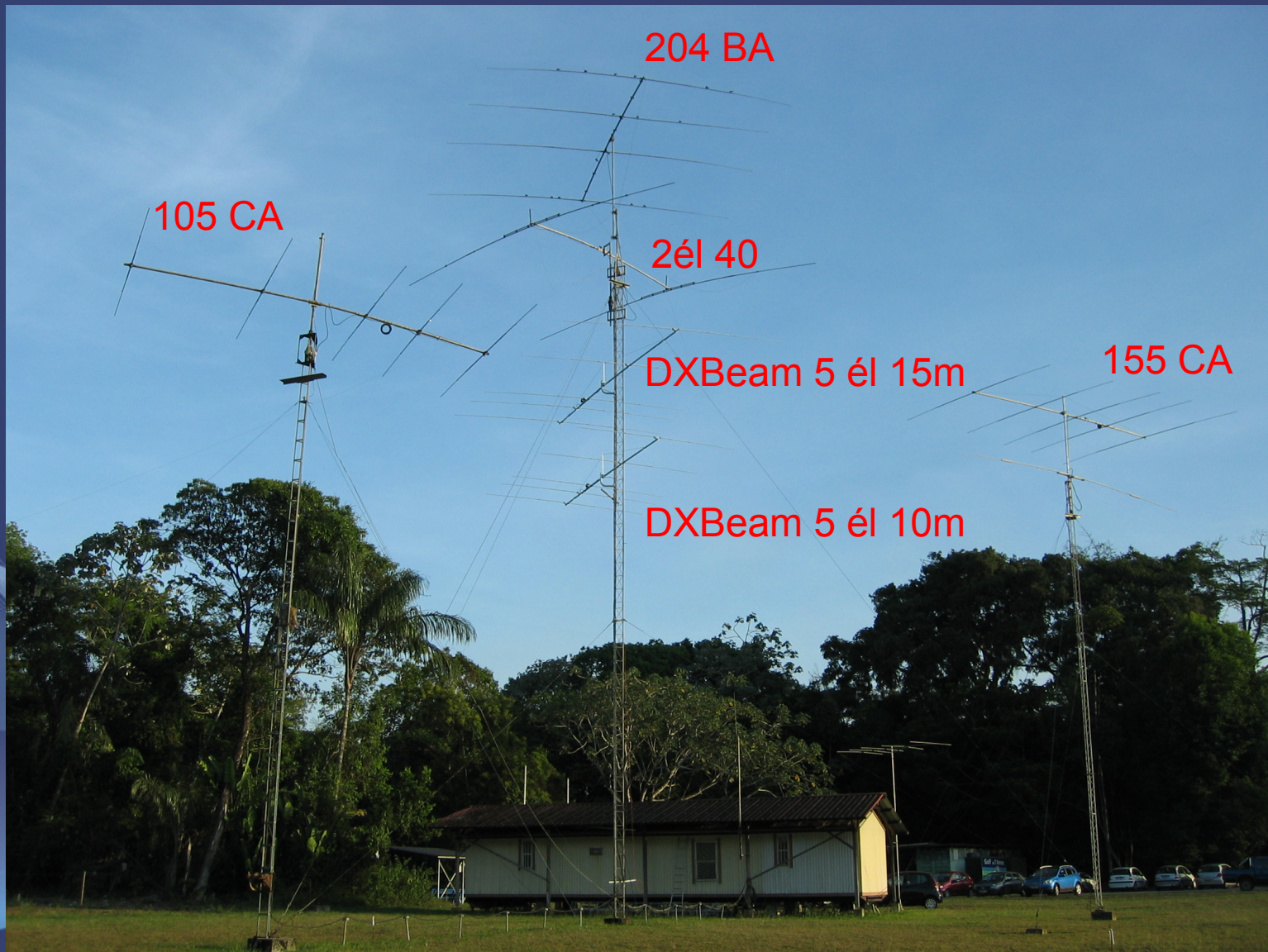
4 Beverages préamplifiées : US, JA, EU, Est/Ouest

Beam 1 : 5él DXBeam US fixe à 15 m

Beam 2 : 5él 105 CA rotative à 15 m

(Stub en sortie d'ampli non figuré)





204 BA

105 CA

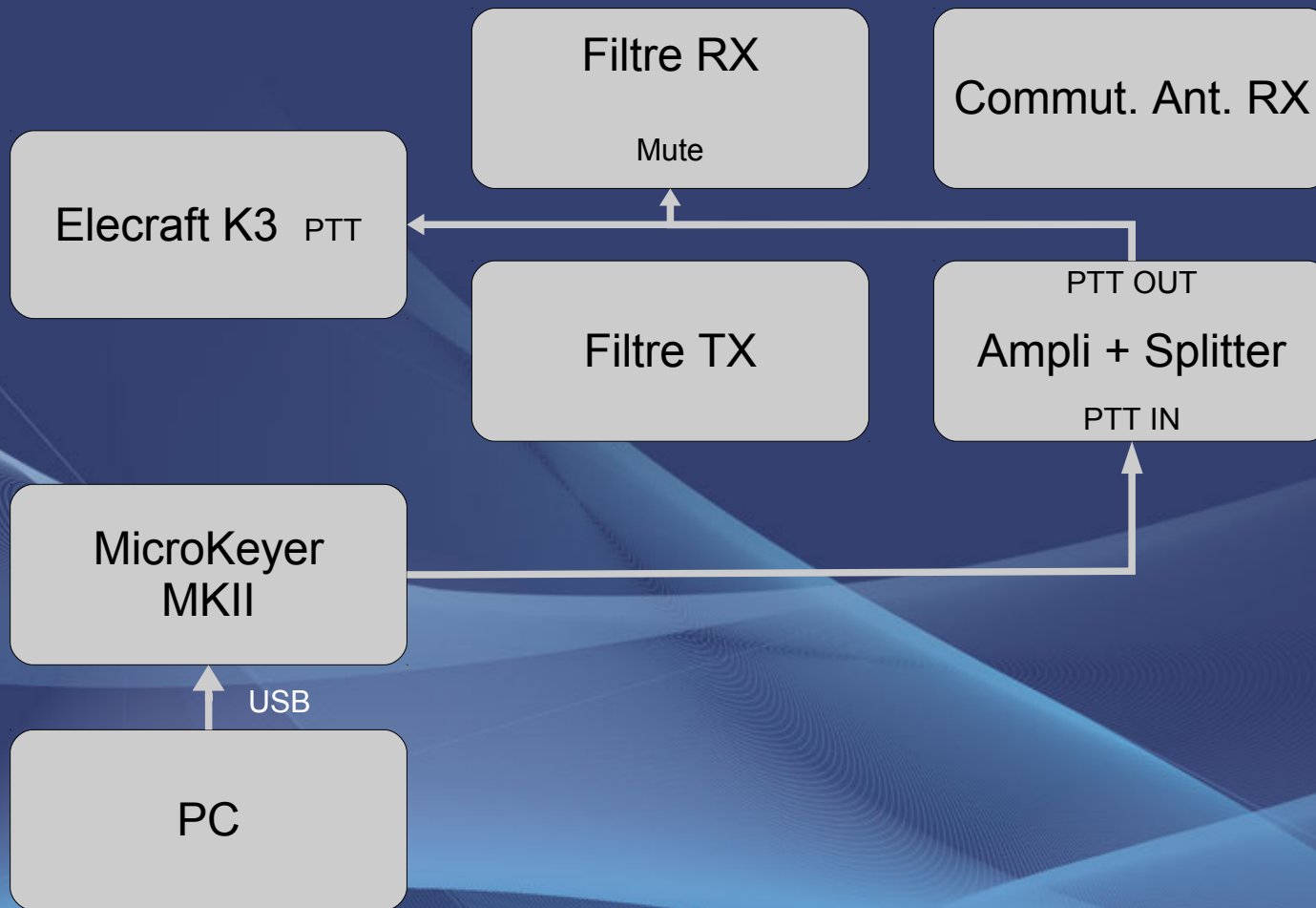
2él 40

DXBeam 5 él 15m

155 CA

DXBeam 5 él 10m

PTT



Analyse pré-concours

- Choix de bande (15m vs 10m)
- Concurrence
- Prévisions propagation

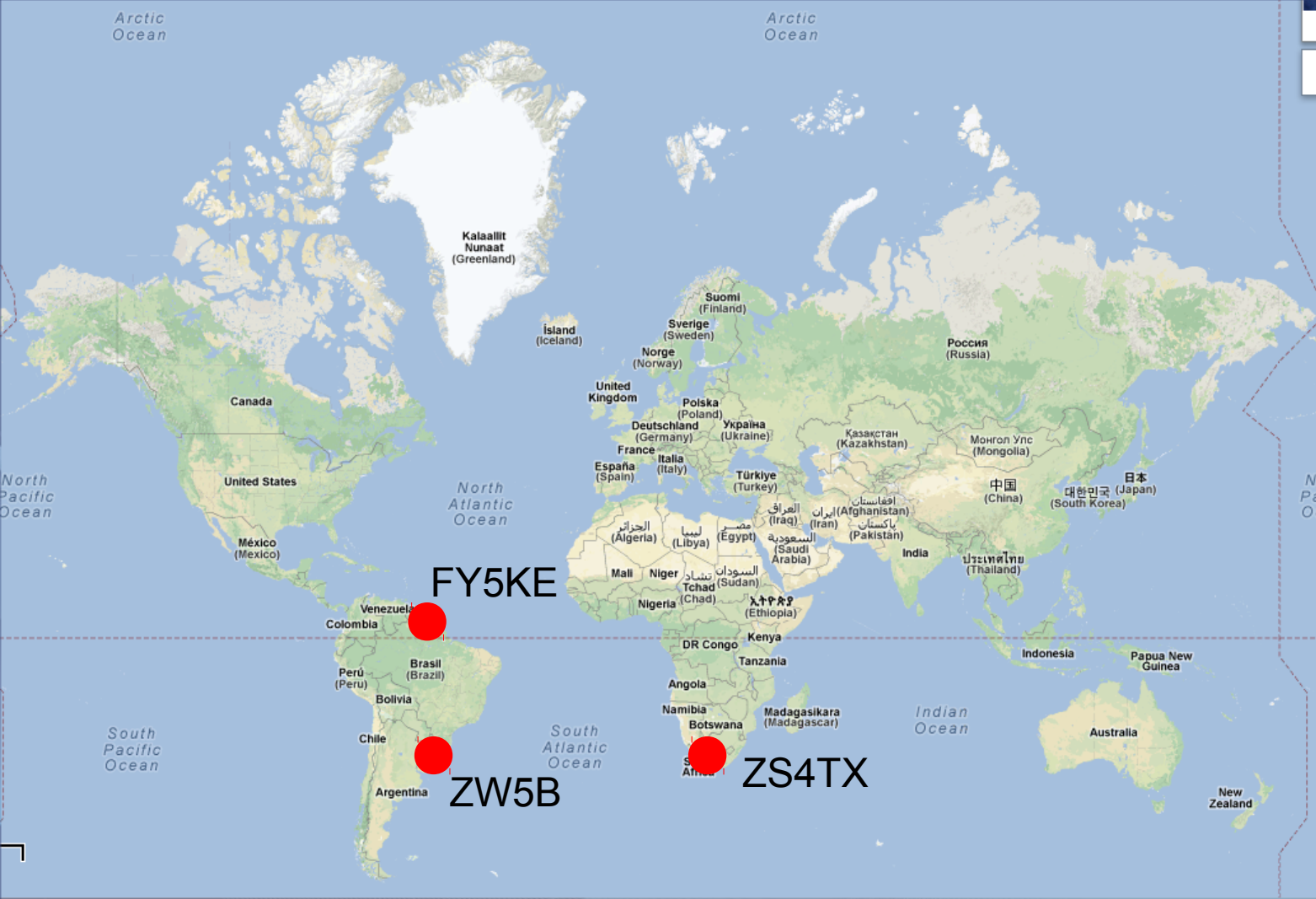
Données solaires

Date	SFI	SSN	Middle Latitude - Fredericksburg - A K-indices	High Latitude ---- College ---- A K-indices	Estimated --- Planetary --- Ap K-indices
2012 11 11	133	106	2 1 1 0 1 2 0 0 1	2 0 0 0 1 2 1 0 0	3 1 1 0 1 1 1 0 1
2012 11 12	144	188	4 1 0 0 0 1 1 2 3	1 0 0 0 0 0 0 1 2	5 1 0 0 0 0 2 2 3
2012 11 13	146	108	10 3 3 2 2 2 3 2 2	13 3 2 2 2 4 4 2 2	15 4 3 2 3 3 4 3 3
2012 11 14	142	126	21 5 5 4 3 3 2 1 2	44 3 5 7 5 6 3 1 1	33 6 6 5 4 4 2 1 1
2012 11 15	141	132	3 1 1 0 1 1 1 1 1	1 0 0 0 2 0 0 0 0	3 1 1 0 1 0 0 1 1
2012 11 16	138	141	5 1 2 1 1 2 1 2 1	3 0 0 1 2 2 1 1 1	5 1 2 1 1 1 2 2 1
2012 11 17	135	163	7 1 3 1 2 2 1 2 2	5 1 1 1 1 3 2 2 0	7 1 2 1 2 2 2 3 1
2012 11 18	141	136	4 1 2 1 2 1 1 1 1	5 1 2 1 3 2 1 0 0	5 1 2 2 2 1 1 0 1
2012 11 19	134	122	3 1 0 2 1 2 1 1 0	8 2 0 3 3 3 3 0 0	4 1 0 2 1 2 2 0 1
2012 11 20	141	119	10 2 2 2 3 2 2 3 3	28 1 2 4 5 5 5 4 3	11 2 2 2 2 2 2 4 3
2012 11 21	140	75	7 3 2 3 2 1 1 1 1	14 2 2 5 4 2 1 1 2	7 3 2 2 2 1 1 1 1
2012 11 22	128	93	1 1 0 0 0 0 1 0 1	1 1 1 0 0 1 0 0 0	2 1 1 0 0 1 0 0 1
2012 11 23	126	85	6 0 1 1 1 1 1 1 4	5 0 0 1 3 2 0 0 3	7 0 1 1 1 0 0 1 4

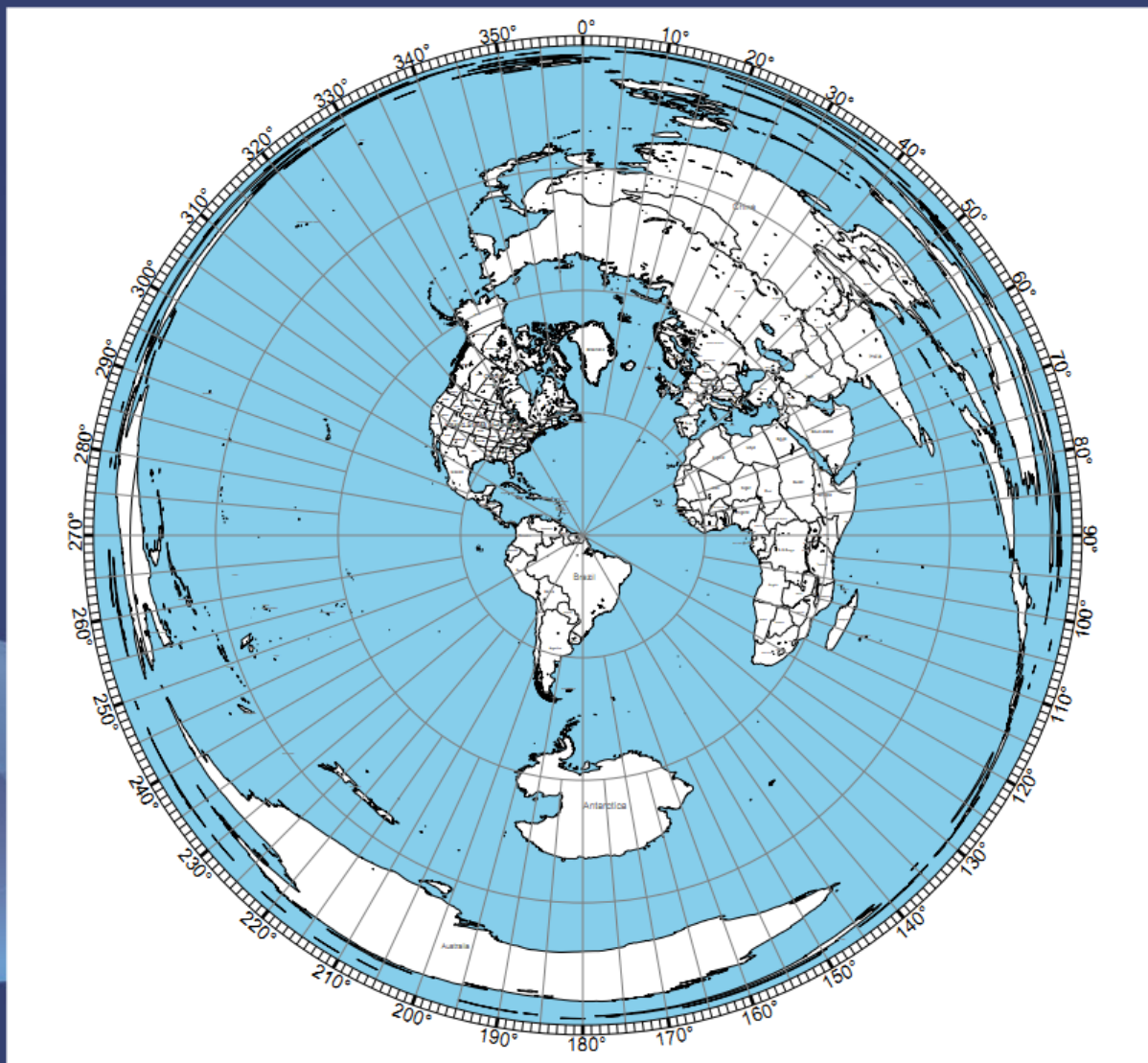
Concurrence

- ZS4TX (1^{er} sur 10m en 2011 - WR)
- CX3AL
- ZW5B (Surprise !)

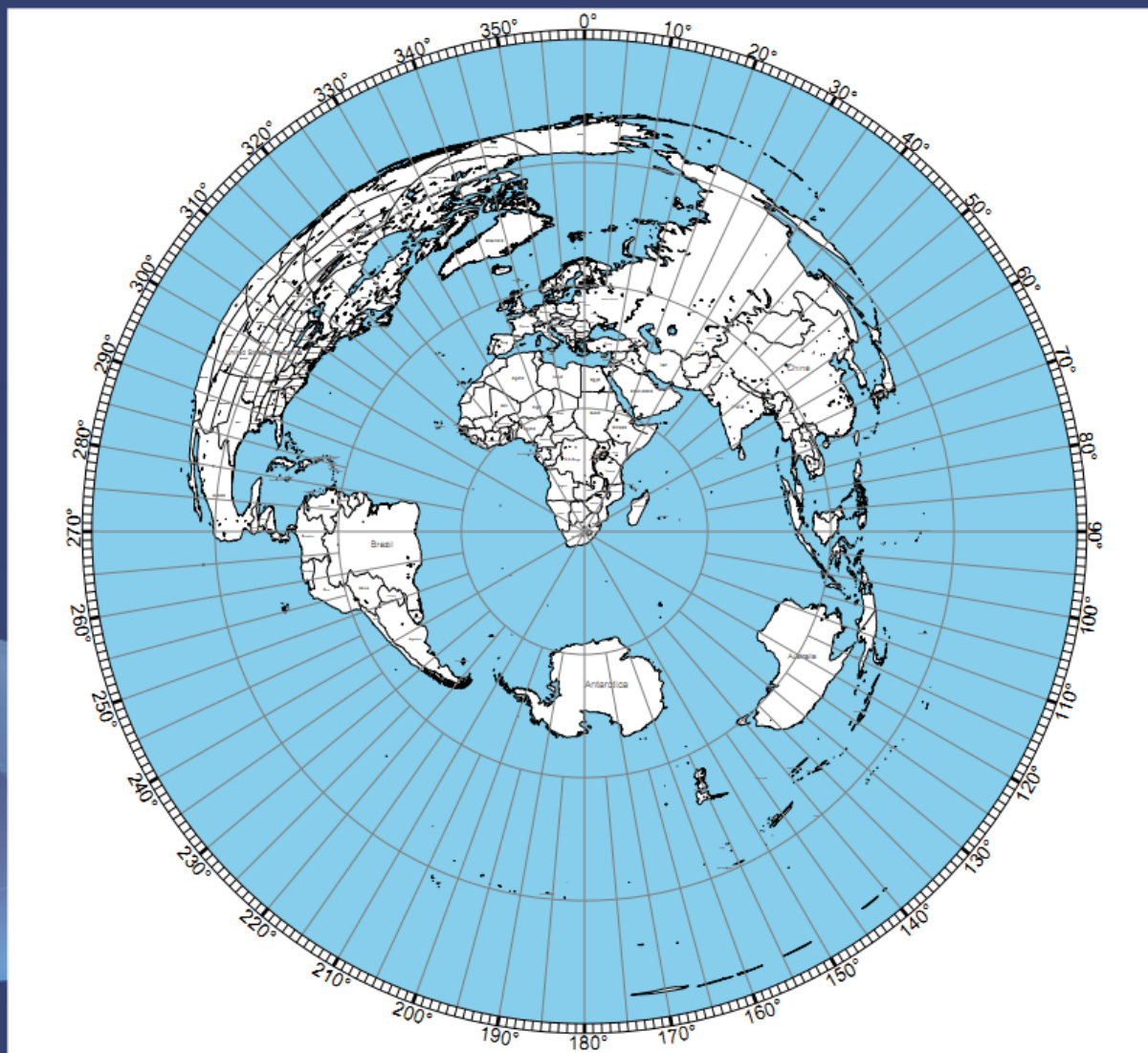
Concurrence



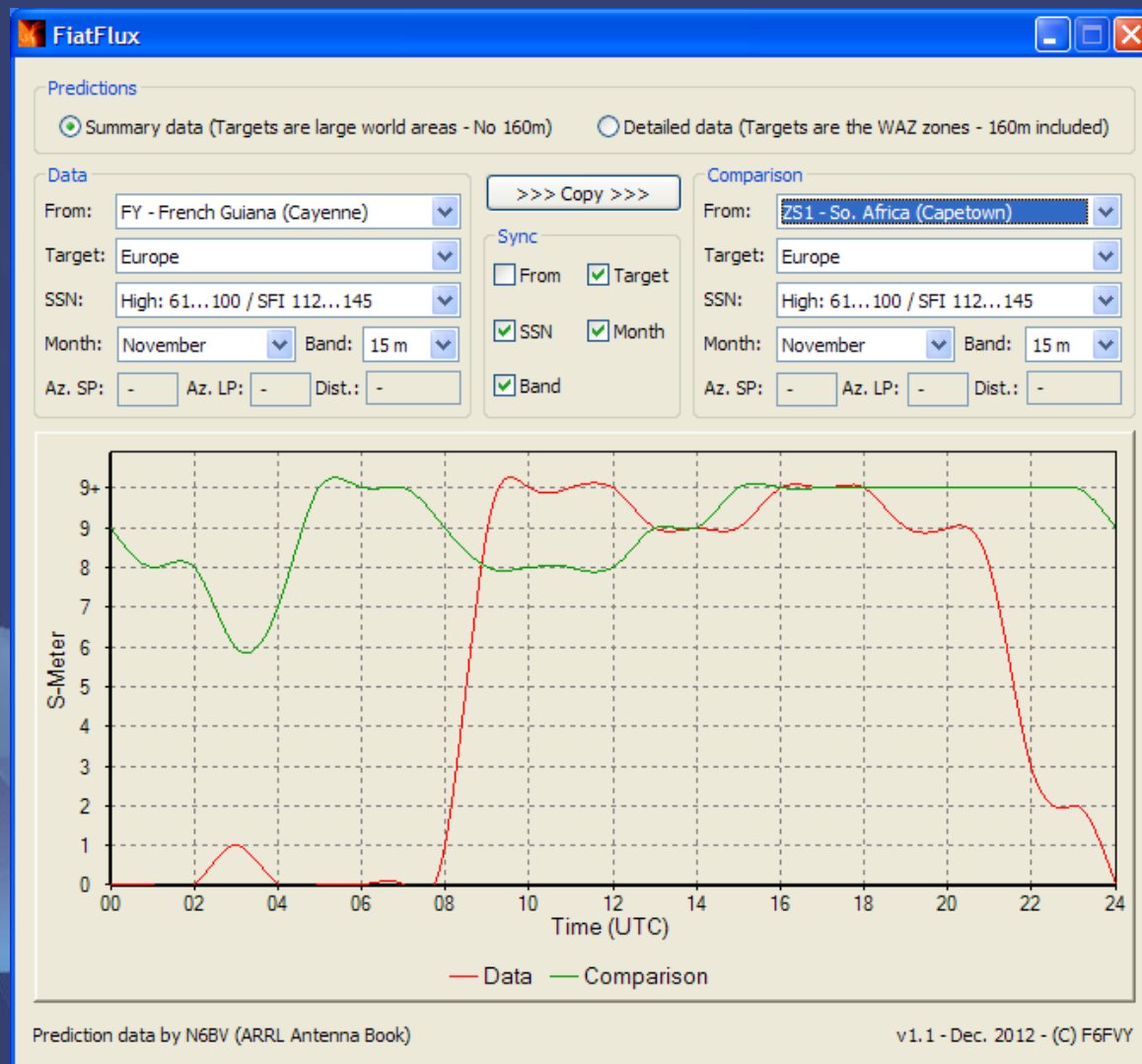
Carte Azimutale FY5KE



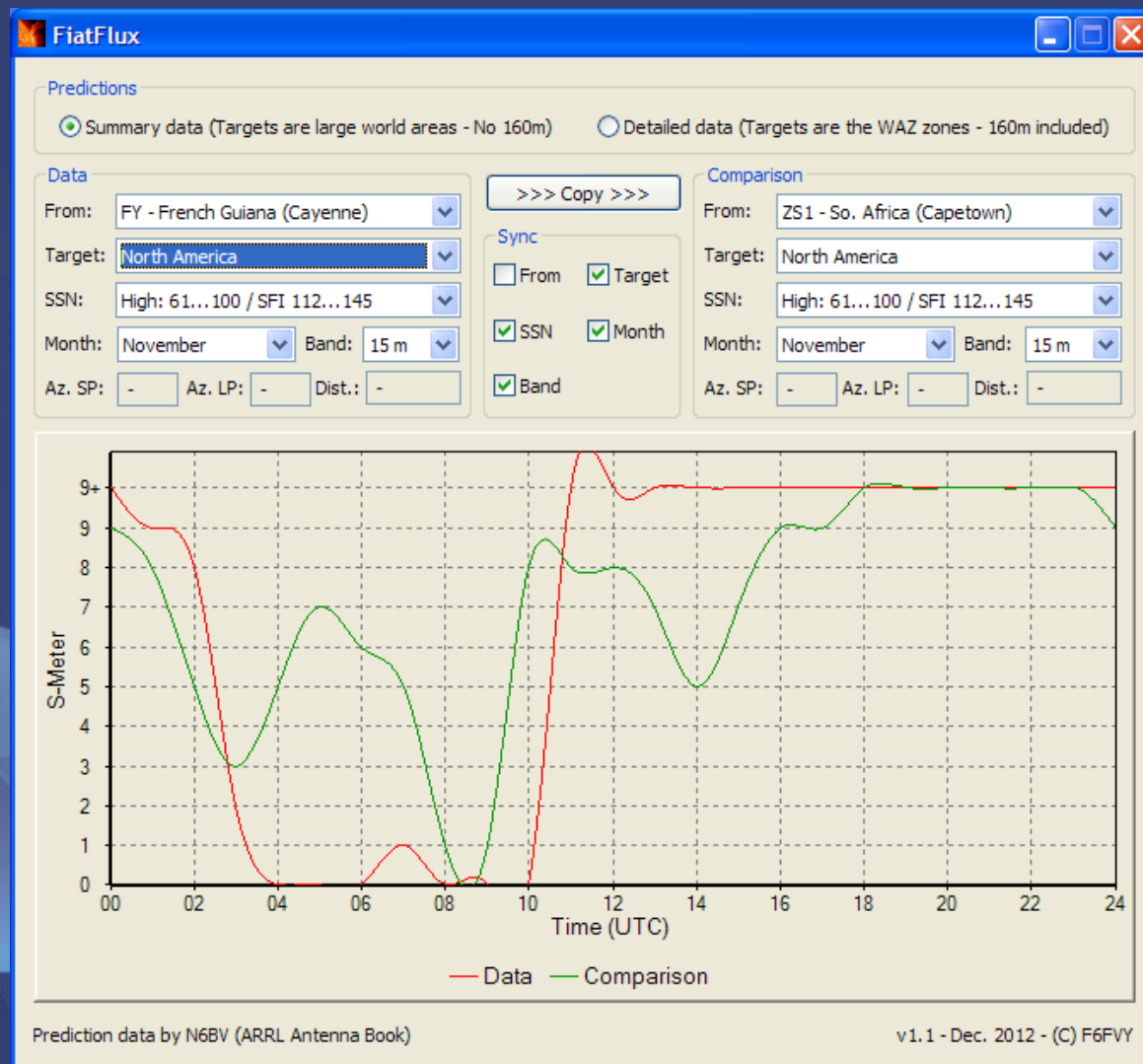
Carte Azimutale ZS4TX



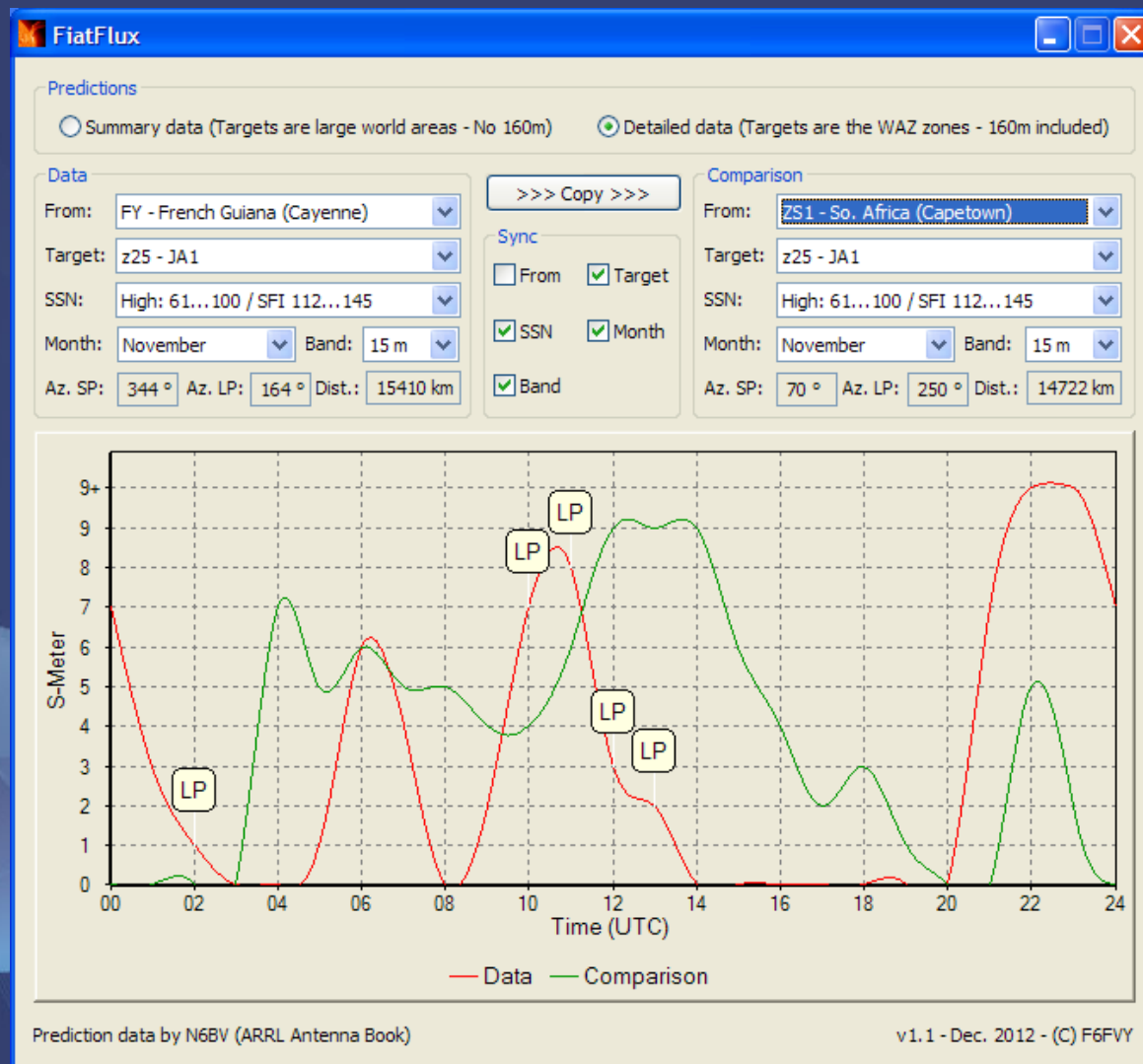
Prévisions FY5KE vs ZS4TX (EU)



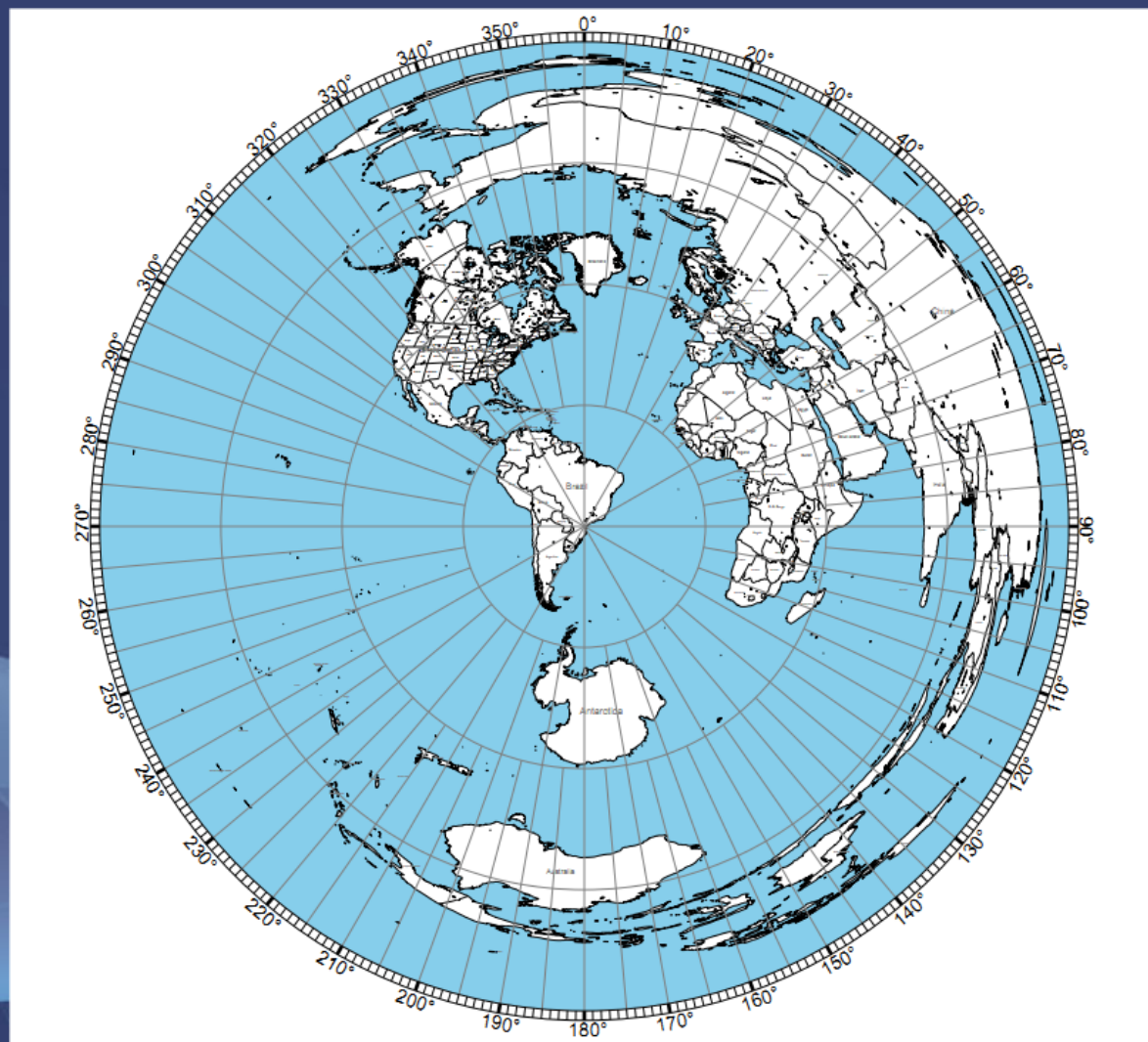
Prévisions FY5KE vs ZS4TX (NA)



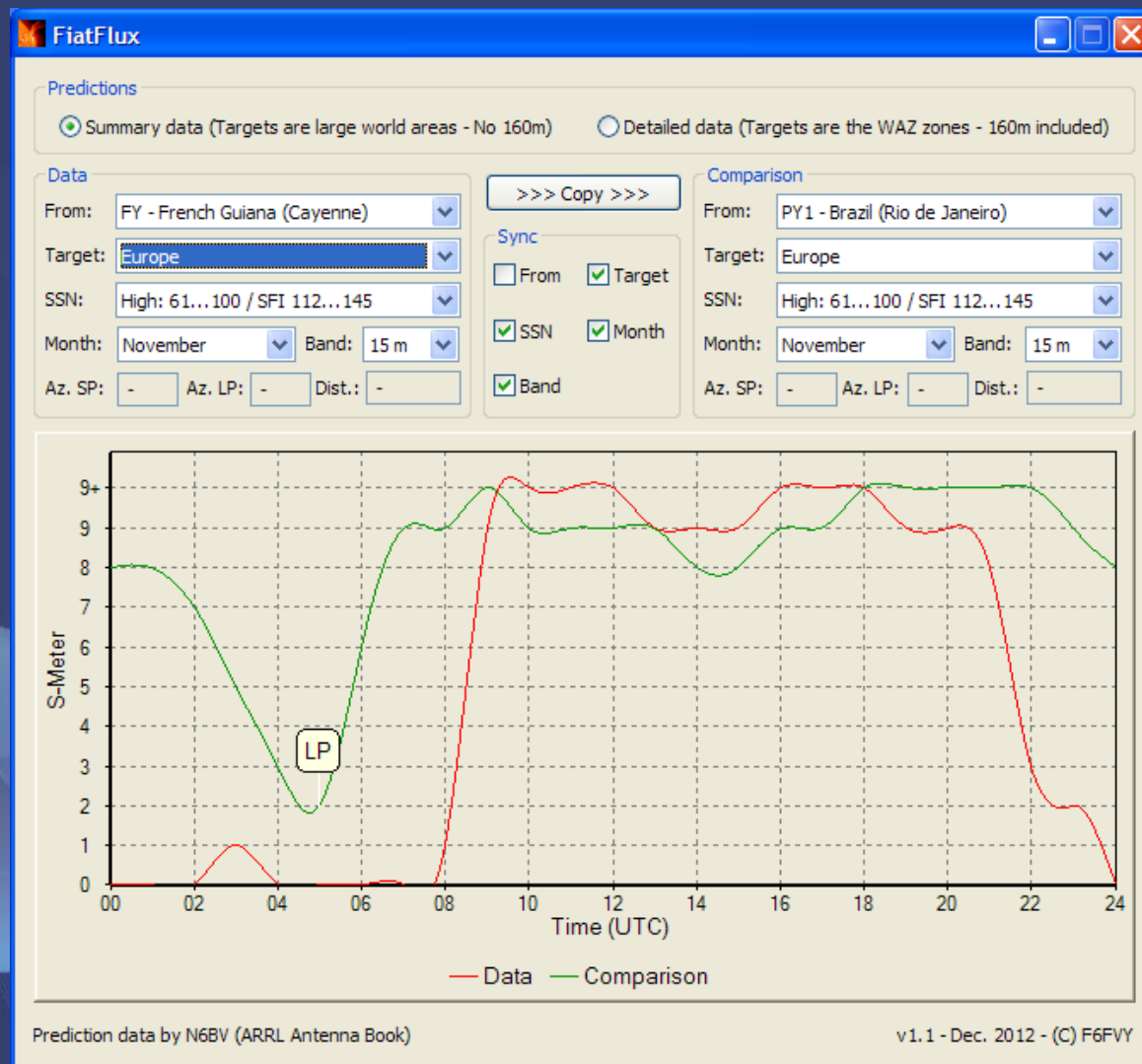
Prévisions FY5KE vs ZS4TX (JA)



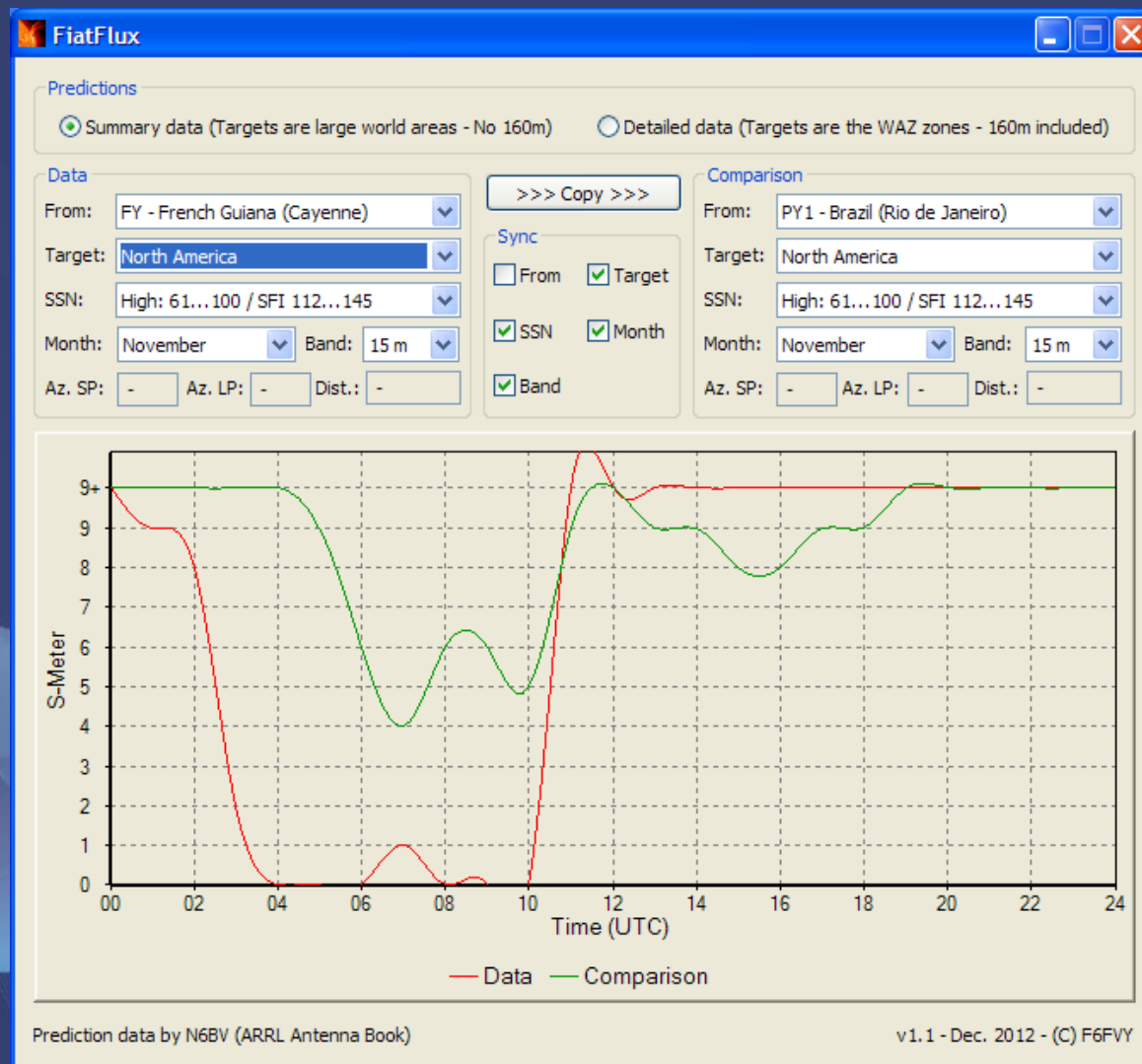
Carte Azimutale ZW5B



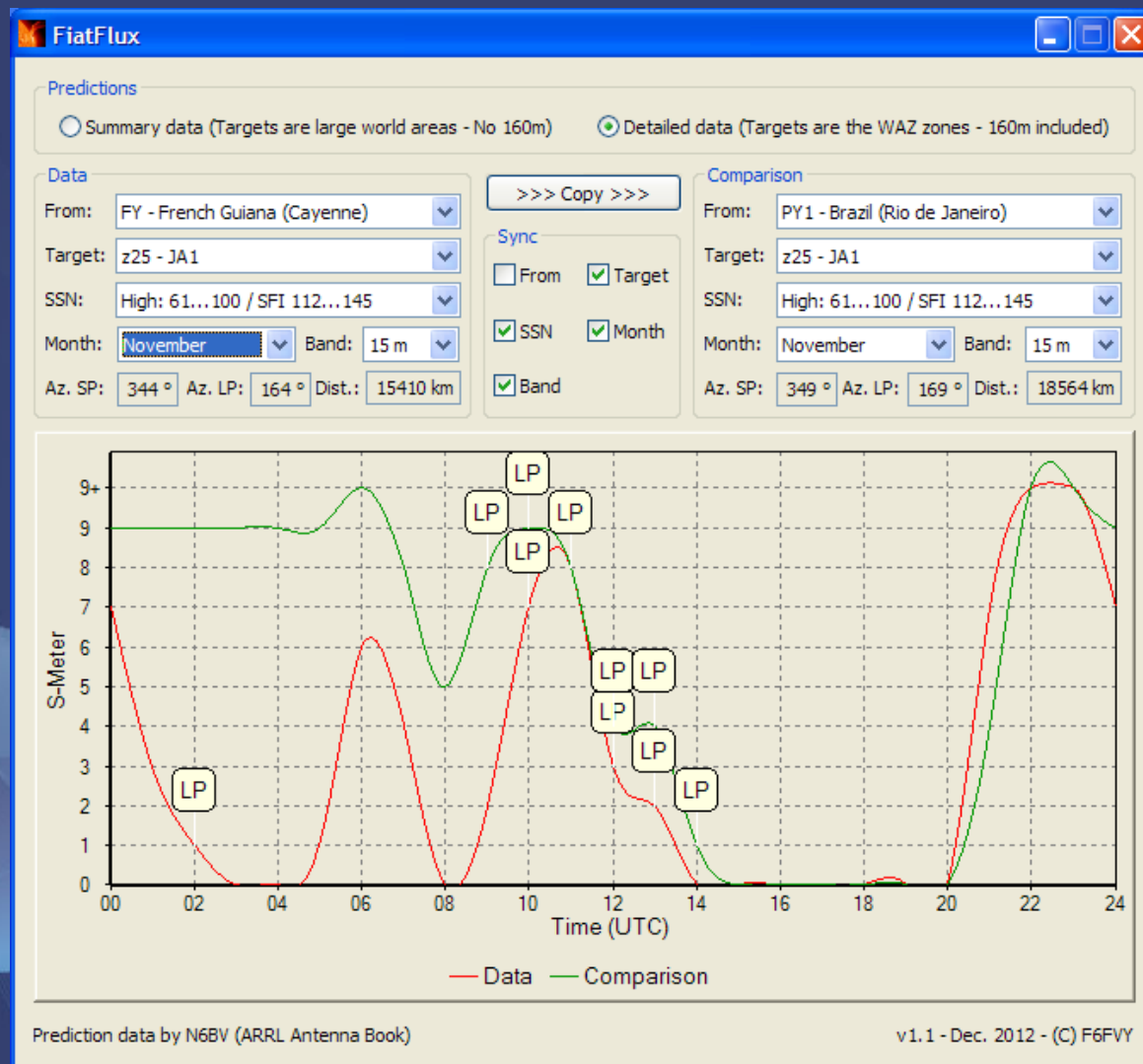
Prévisions FY5KE vs ZW5B (EU)



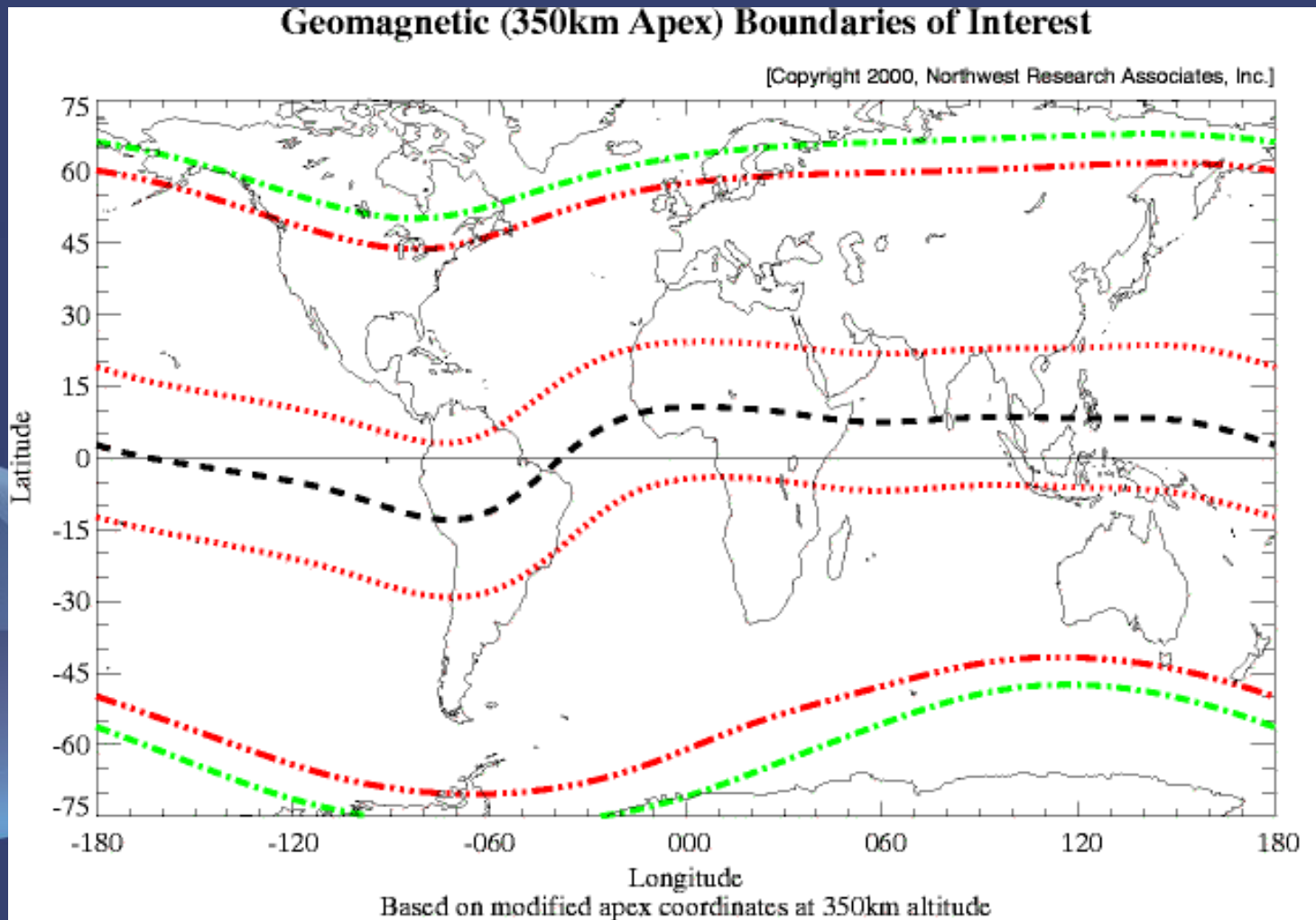
Prévisions FY5KE vs ZW5B (NA)



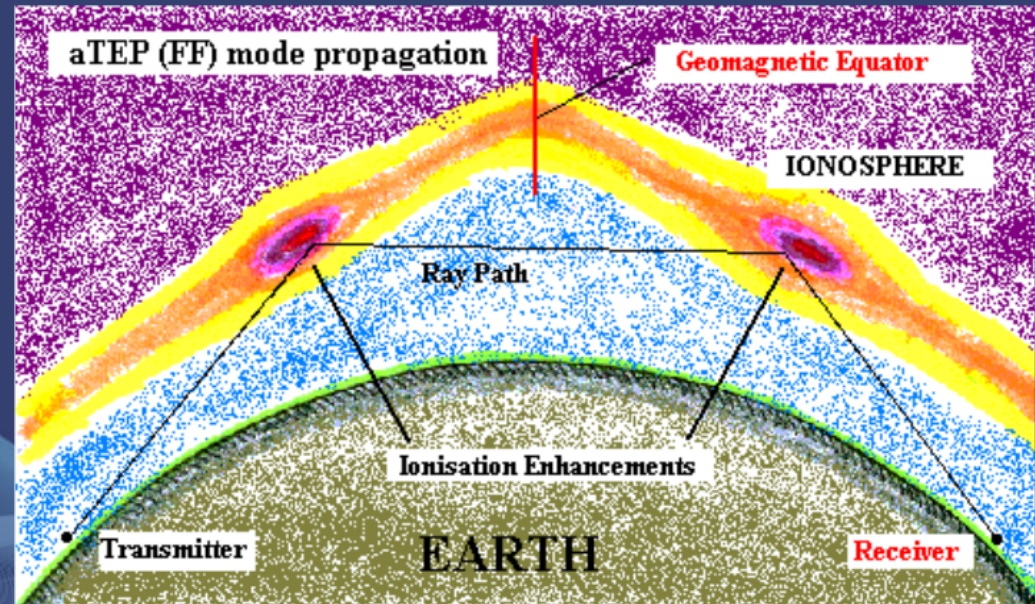
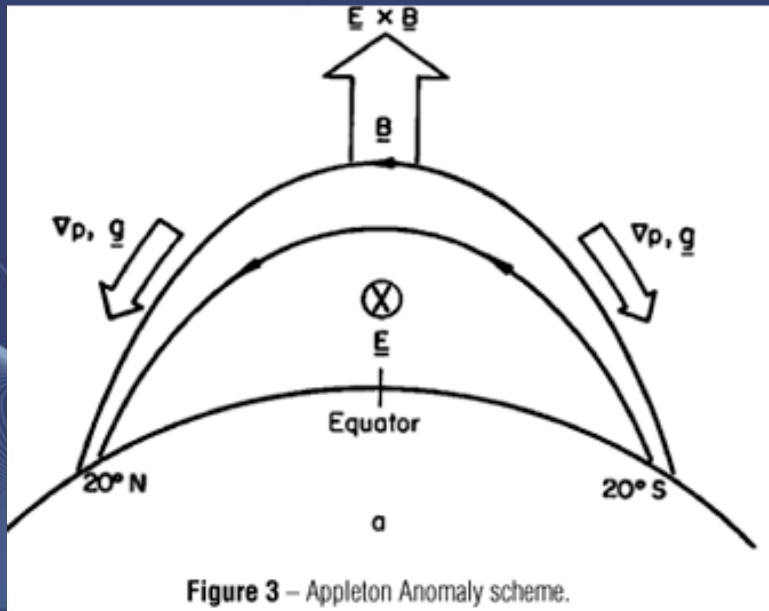
Prévisions FY5KE vs ZW5B (JA)



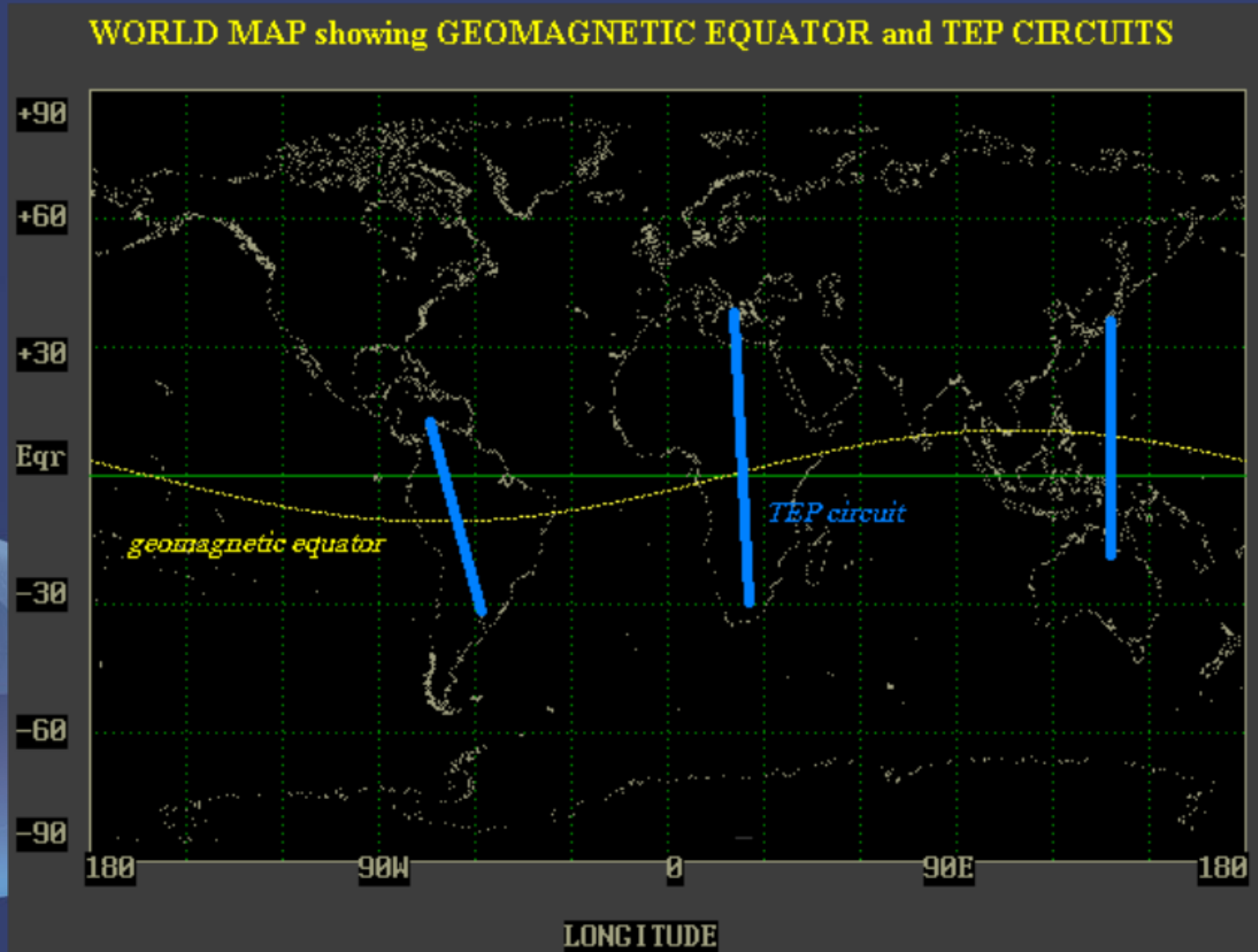
Rappels sur TEP (Trans-Equatorial Propagation)



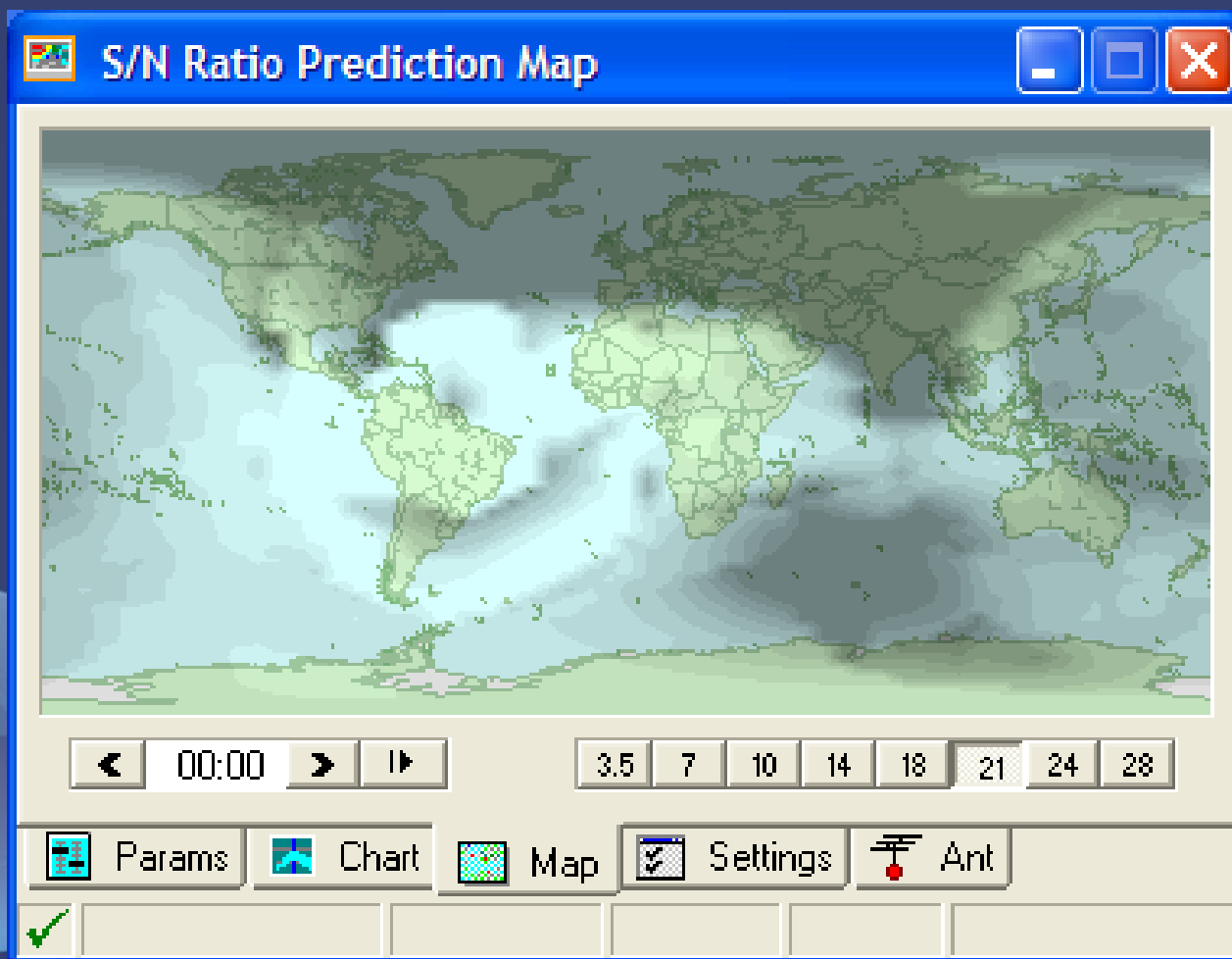
Fountain effect



Trajets typiques TEP



24 heures de propagation 15m

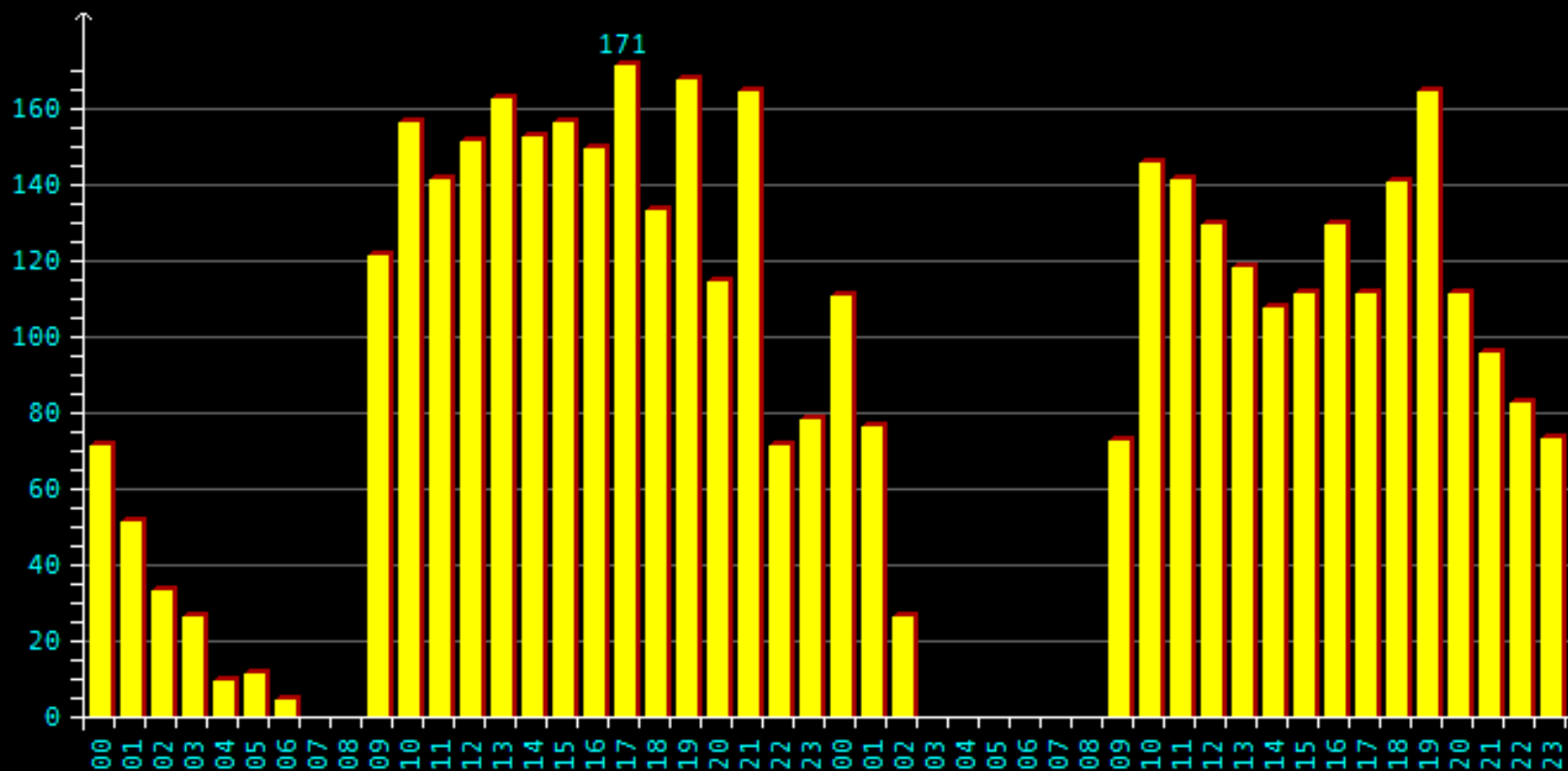


Rate QSO/h

Win-Test 4.11.0-dev

<http://www.win-test.com>

FY5KE
All bands - All modes
QSOs (with dupes) - By time



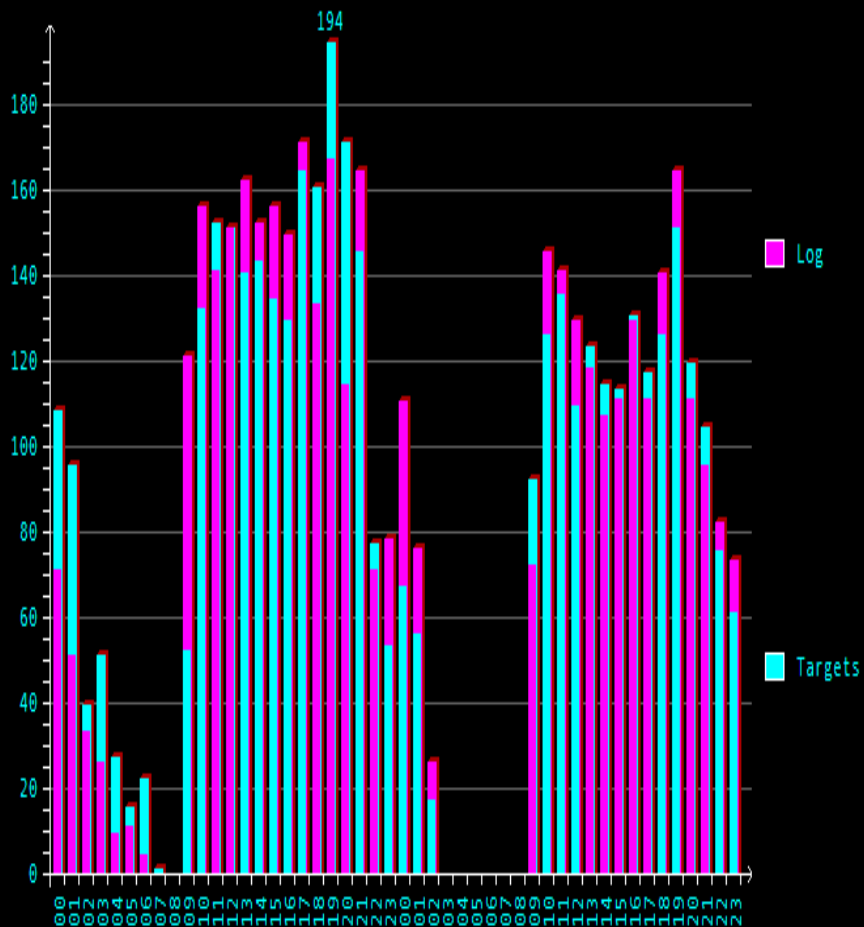
Log Targets Continents

Rate QSO/h 2012 vs 2011

Win-Test 4.11.0-dev

<http://www.win-test.com>

FY5KE - Targets tracking
FY5KE 2011
QSOs (with dupes) - Hourly comparison

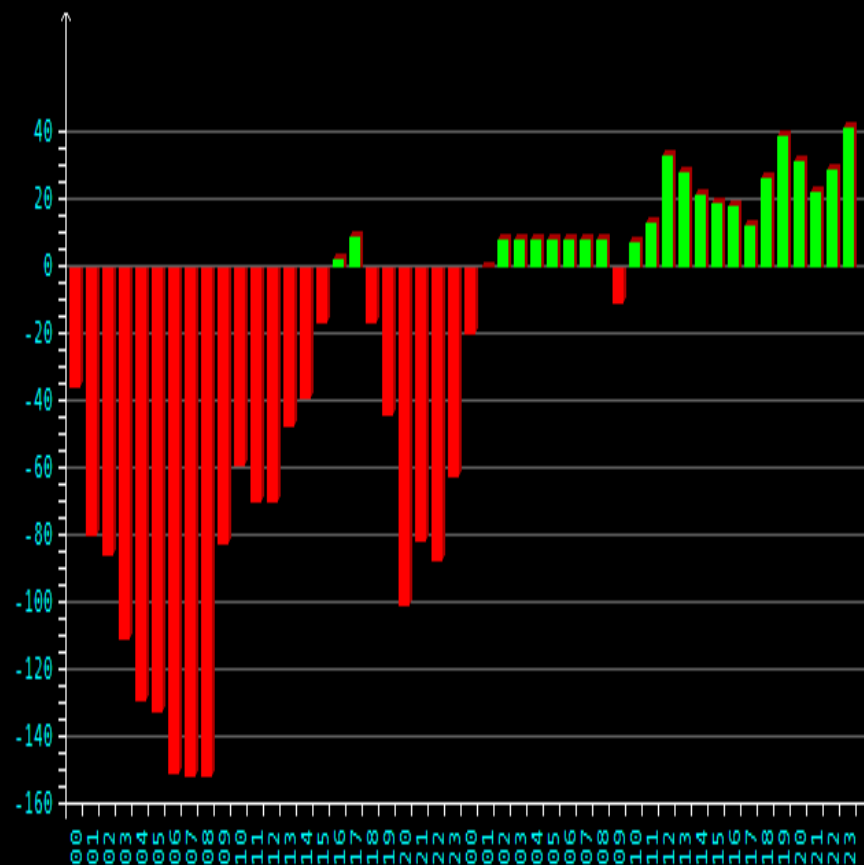


\Log\Targets\Continents/

Win-Test 4.11.0-dev

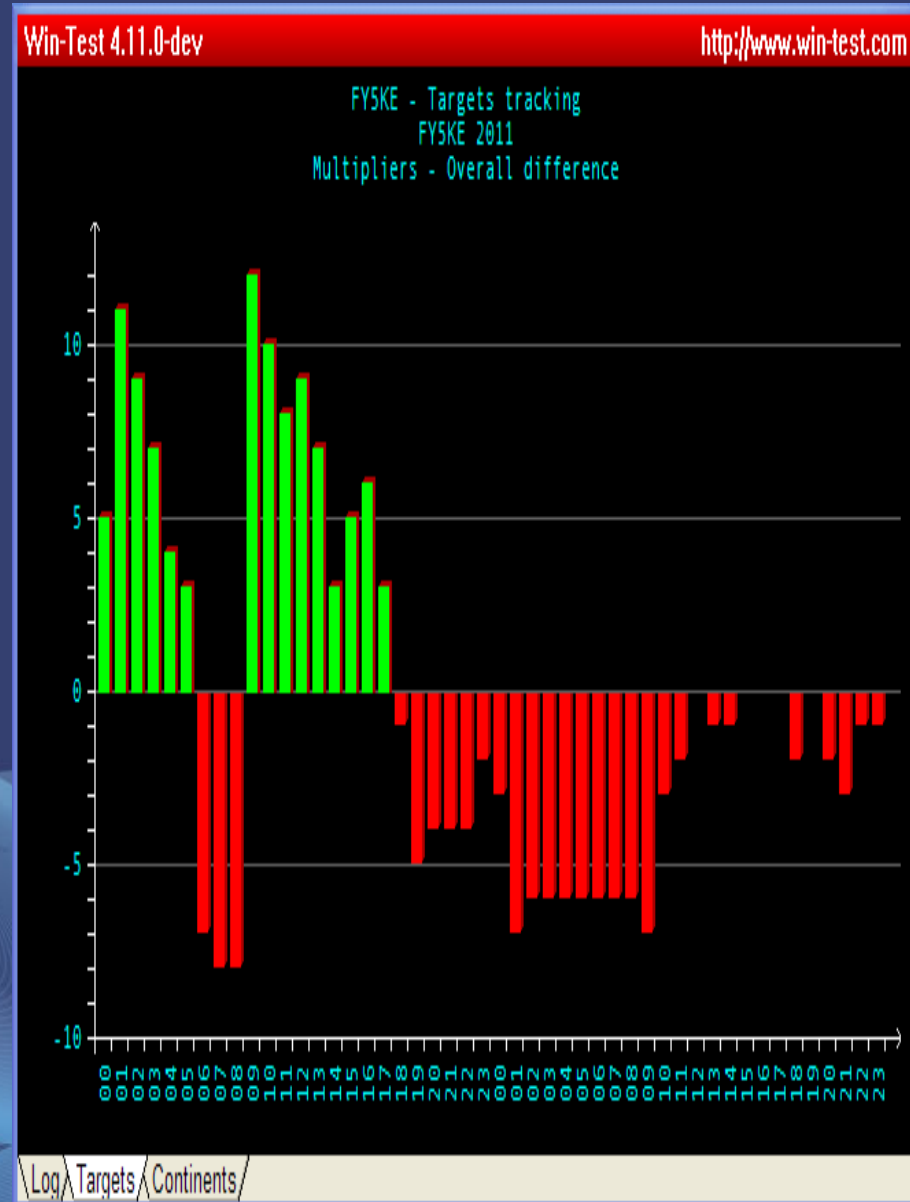
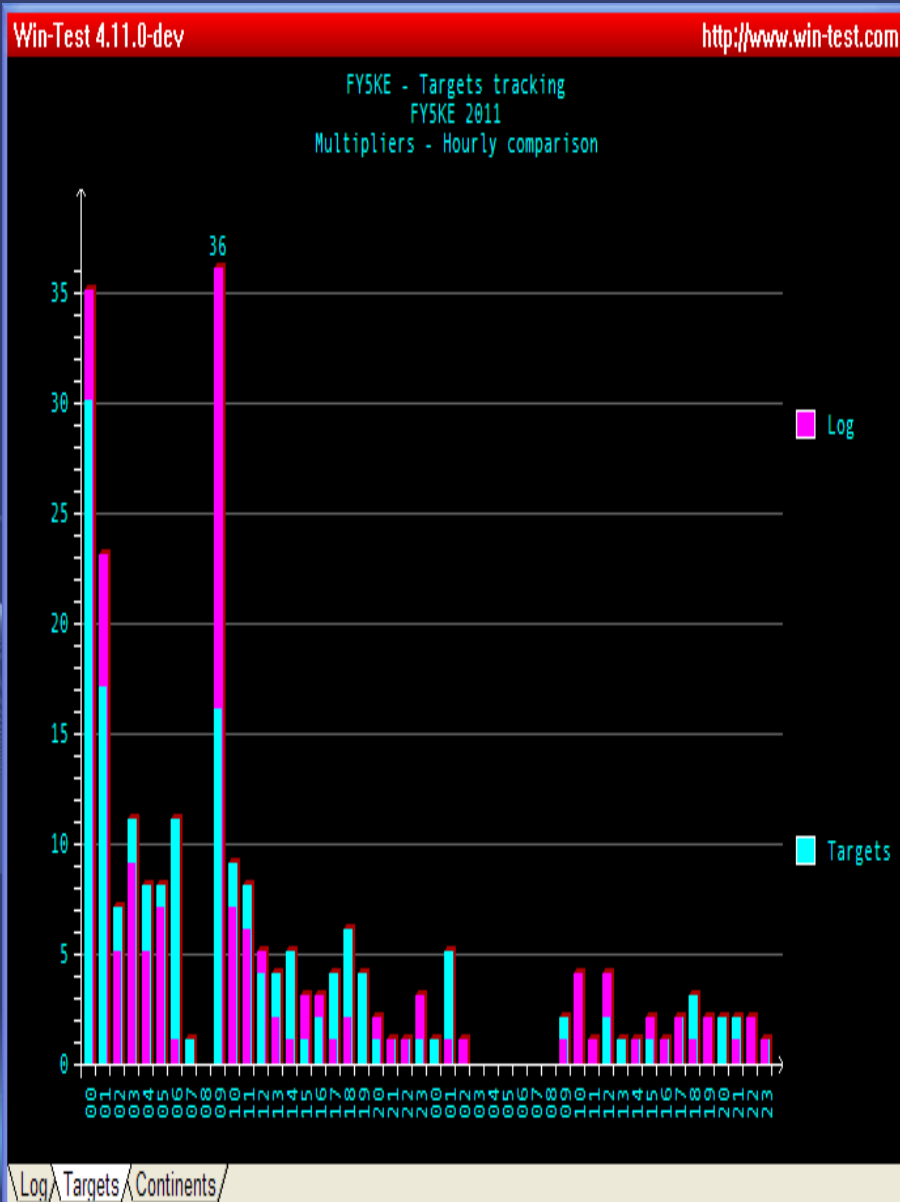
<http://www.win-test.com>

FY5KE - Targets tracking
FY5KE 2011
QSOs (with dupes) - Overall difference



\Log\Targets\Continents/

Multis/h 2012 vs 2011

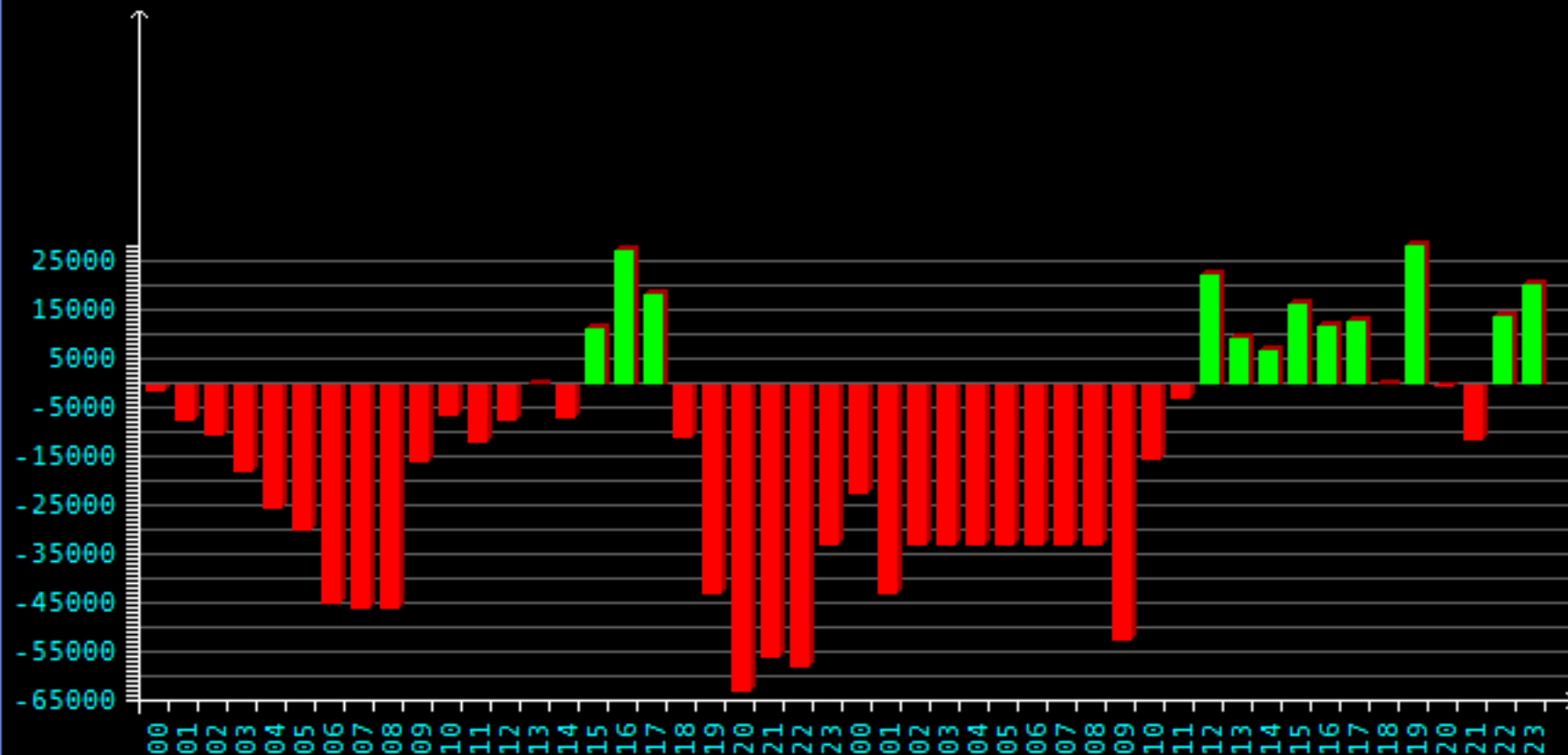


Pts/h 2012 vs 2011

Win-Test 4.11.0-dev

<http://www.win-test.com>

FY5KE - Targets tracking
FY5KE 2011
Points - Overall difference

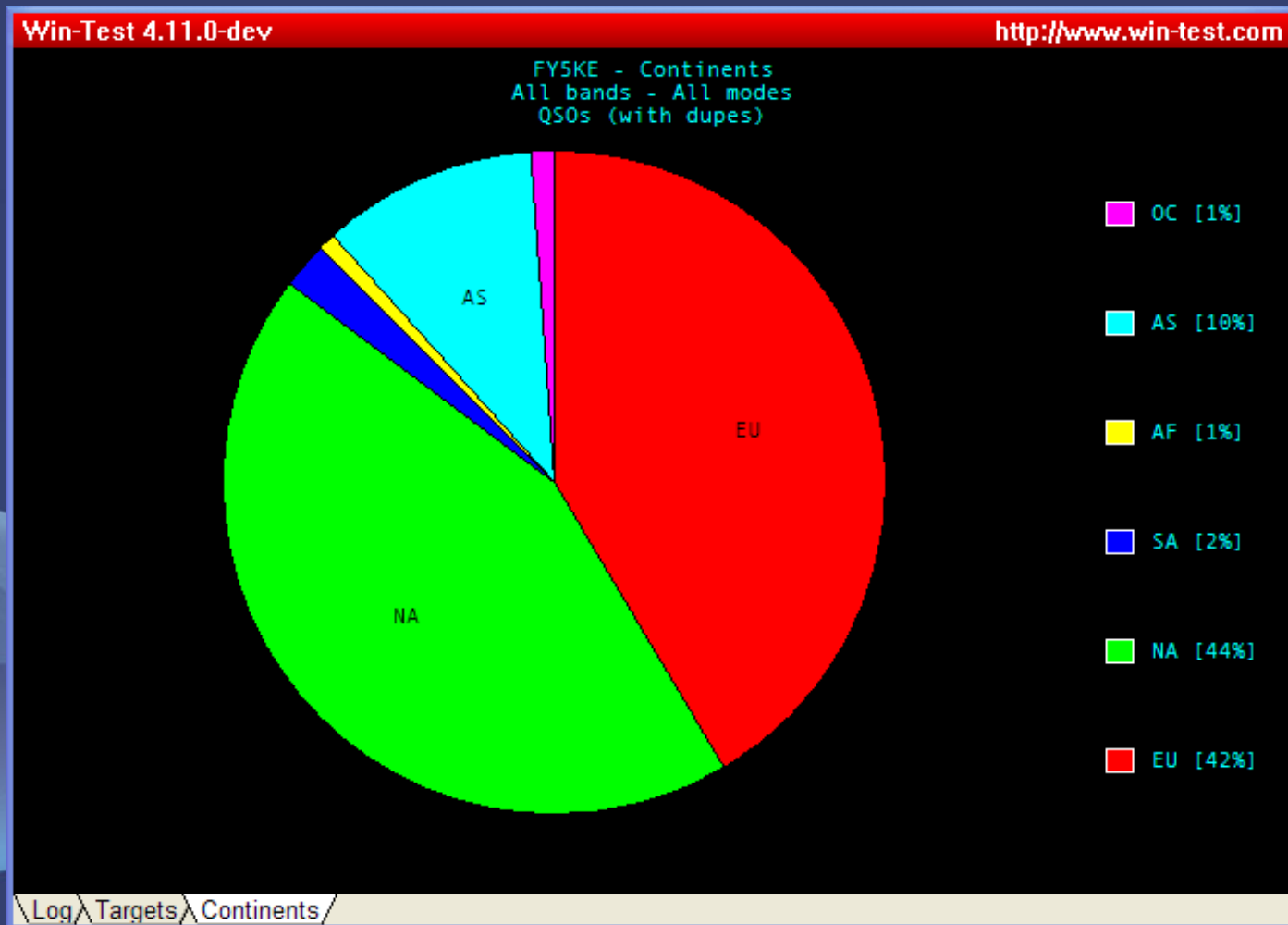


Log Targets Continents

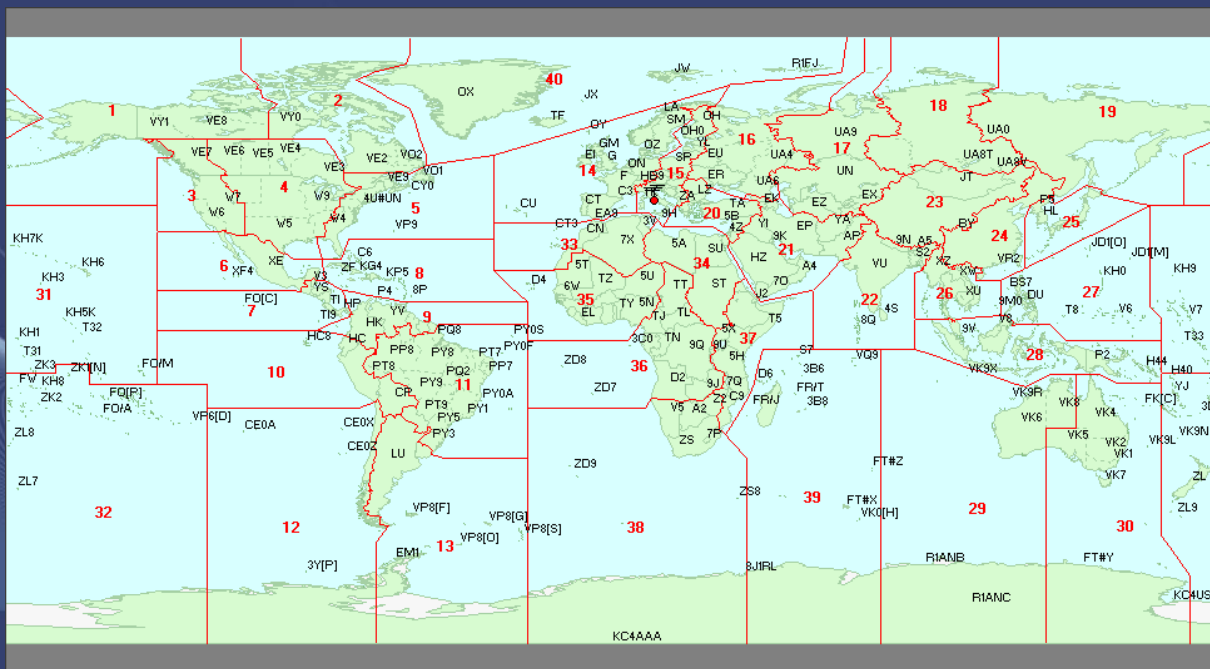
Récapitulatif

Win-Test 4.11.0-dev					http://www.win-test.com	
BAND	QSO	CQ	DXC	DUP	POINTS	AVG
160	0	0	0	0	0	0.00
80	0	0	0	0	0	0.00
40	0	0	0	0	0	0.00
20	0	0	0	0	0	0.00
15	4095	38	145	136	12103	2.96
10	0	0	0	0	0	0.00
TOTAL	4095	38	145	136	12103	2.96
FINAL SCORE: 2 214 849						

Répartition par continents

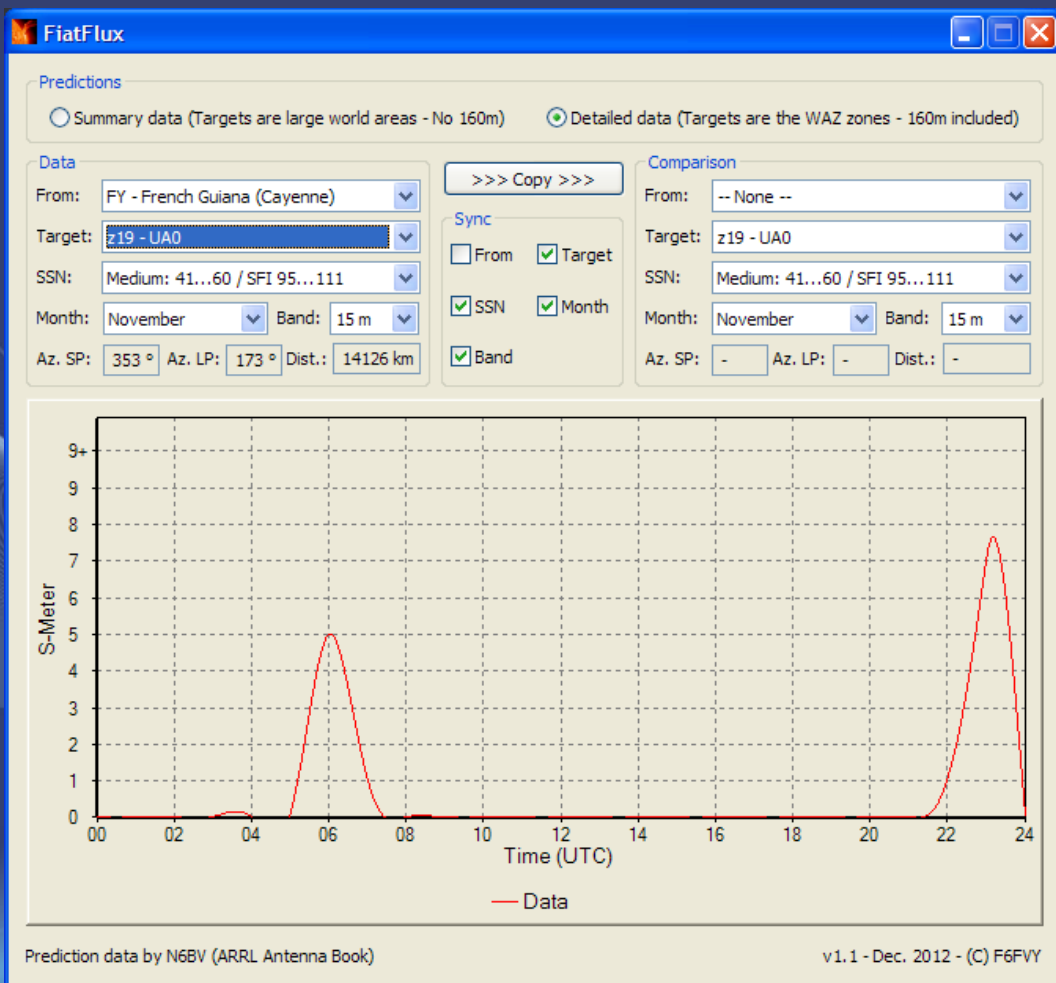


Répartition par zones



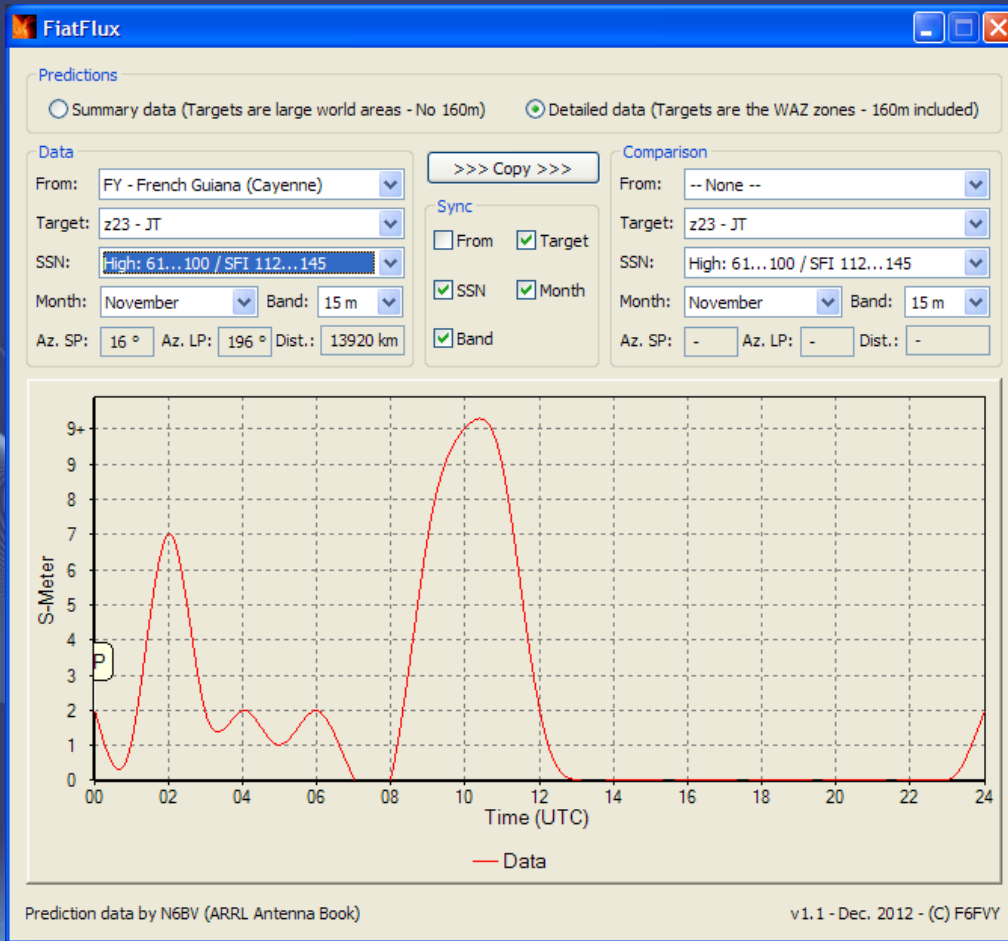
Zn	QSO	Zn	QSO
01	10	21	6
02	1	22	4
03	356	23	1
04	673	24	6
05	710	25	320
06	8	26	6
07	4	27	6
08	32	28	12
09	20	29	3
10	2	30	12
11	40	31	12
12	3	32	7
13	24	33	15
14	716	34	
15	560	35	4
16	363	36	3
17	54	37	2
18	11	38	9
19	9	39	
20	65	40	3

QSO zone 19



0145	RT0C	599	19
2130	UA0ZC	599	19
2139	RU0FM	599	19
2317	R0DX	599	19
2327	UA0KBG	599	19
2358	UA0CW	599	19
0026	RA0ZN	599	19
0033	RA0FF	599	19
2210	R0FA	599	19
2212	UA0ZC	599	19

QSO zone 23



QSO	Bd	Time	Callsign	Sent	Rcvd	Mult
335	15	10:03	UT7ND	599	599 16	
336	15	10:04	DJ6QT	599	599 14	
337	15	10:05	ZC4LI	599	599 20	C
338	15	10:05	UA80CE	599	599 18	
339	15	10:05	UA8YAY	599	599 23	Z
340	15	10:06	Y08COQ	599	599 20	
341	15	10:06	RN4ZT	599	599 16	
342	15	10:07	UB0A	599	599 18	
343	15	10:08	GM3X	599	599 14	C
344	15	10:08	G40EC	599	599 14	

Comparaison 2012 vs 2011

2011 : 4041 Q 38 Z 147 C Total Score = 2,208,715

Jour 1 : SFI 133 – SSN 133 – Ap 4 – K 1 1 0 1 1 1 1 1

Jour 2 : SFI 135 – SSN 123 – Ap 5 – K 1 1 2 2 1 2 1 0

2012 : 4095 Q 38 Z 145 C Total Score = 2,214,849

Jour 1 : SFI 118 – SSN 87 – Ap 13 – K 4 3 3 2 3 2 2 1

Jour 2 : SFI 121 – SSN 64 – Ap 4 – K 1 1 1 0 1 1 1 1

Record (ZD8Z op. N6TJ)

1997 : 4589 Q 39 Z 140 C Total Score = 2,357,967

Jour 1 : SFI 112 – SSN 48 – Ap 2 – K 0 0 0 0 0 1 1 1

Jour 2 : SFI 112 – SSN 56 – Ap 4 – K 1 1 1 1 2 1 1 1

Scores déclarés

FY5KE.....2,220,339 (F6FVY)
ZS4TX.....2,004,832
ZW5B.....1,626,050 (PY2ZXU @ZW5B)

Call: FY5KE

Operating Time (hrs): 39

Total: 4095 38 145 Total Score = 2,214,849

Call: ZS4TX

Operating Time (hrs): 36

Total: 3730 39 149 Total Score = 2,001,520

Call: ZW5B

Operating Time (hrs): 37:34

Total: 3222 38 132 Total Score = 1,622,990

Comment faire plus ?

- Plus de points QSO
 - Meilleure moyenne par QSO
 - Trafiquer plus longtemps
 - Altérer ratio trait/point
 - CW plus rapide
 - Entraînement !

- Plus de multitis
 - Quand lâcher le Run ?
 - Second récepteur (SDR ?)

Prochaines activités à FY5KE

- ARRL DX CW (16 - 17 Février)
 - SOSB 20m HP (F6FVY) - FY5KE
 - SOSB 15m LP (FY5FY) - FY5FY ?
- ARRL DX SSB (2 - 3 Mars)
 - SOSB 15m HP (F1HAR) - FY5KE
 - SOSB 10m HP (F5HRY) - TO1A

Liens

- www.fy5ke.org
- www.cqww.com
- www.ei6dx.com (contest log analyser)
- www.solarham.com (données solaires)
- www.swpc.noaa.gov (NOAA)
- www.dxatlas.com/HamCap (HamCap)
- www.voacap.com

Propagation

- The New Shortwave Propagation Handbook (CQ)
- Radio Amateurs Guide to the Ionosphere (McNamara)
- The High-Latitude Ionosphere and its Effects on Radio Propagation
- ARRL Antenna Book (Tables propagation)
- www.amazon.com
- Google est votre ami...

Merci de votre attention !