

FM Summer 2016



Agenda

1. Season in Brief
2. Season in Depth
3. History & Your Opinion
4. Es Forecaster Champion 2016
5. 12 Reasons Why OIRT Is Still Fun
 - Viktor Rutkovsky
6. AOB



2016: The Good and The Ugly

Active May/June, some exotic double hops

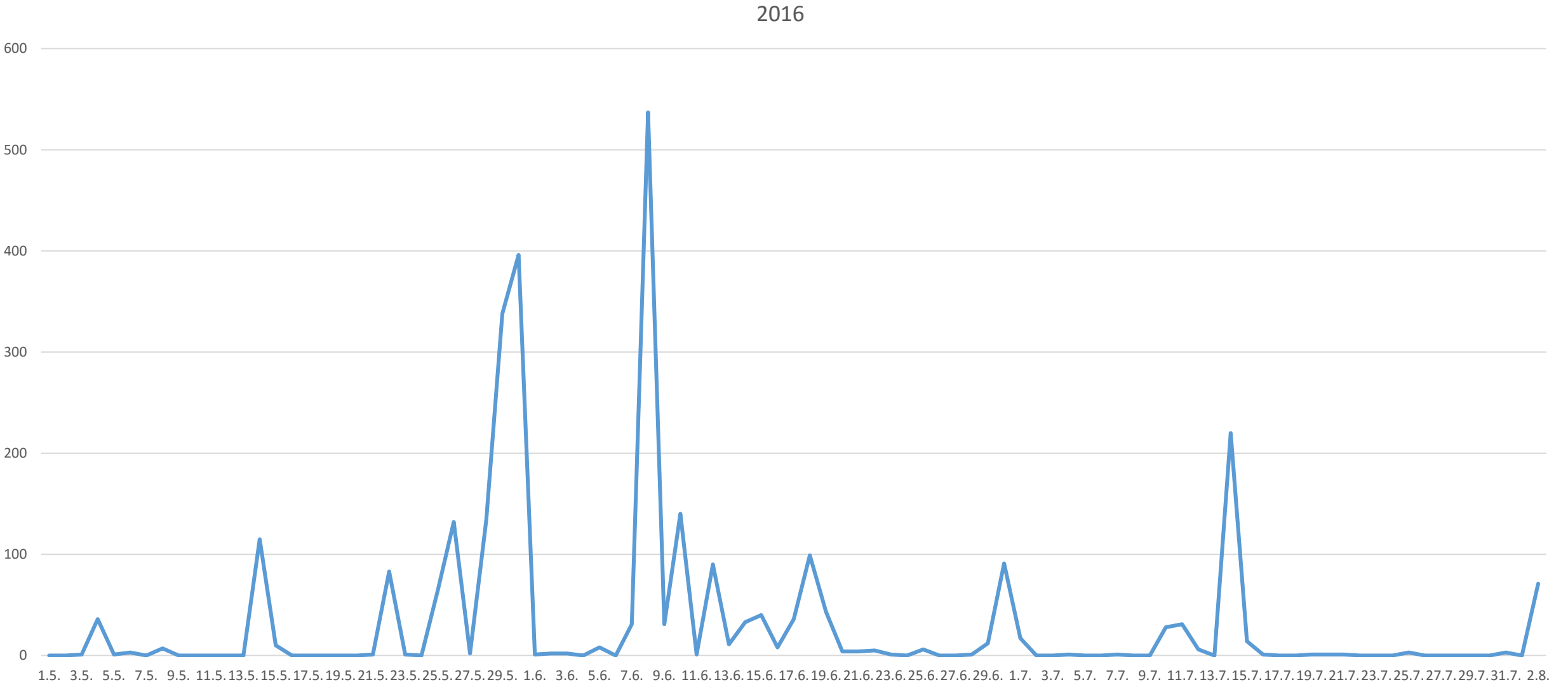
- UK 25/5
- Russia 30/5
- Balkan, **China** 8/6
- Russia, Ukraine 10/6
- France 12/6
- Libya 17/6
- Italy, Balkan 18/6
- UK, Switzerland 19/6
- UK 30/6
- Ankara 11/7
- Krasnodar etc 14/7
- BeNe, France, Spain 2/8

- Horrible July
- Conditions often stuck to SE (Black Sea)
- MUF problems with June openings



89.5 Xinjiang Lùsè Guǎngbò, Urumqi (JUS)

The Flow



Best Days Based on the Number of Logs

8.6.	537
30.5.	396
29.5.	338
14.7.	220
10.6.	140
28.5.	134
26.5.	132
14.5.	115

Days with over 200 loggings

2016: 4

2015: 6

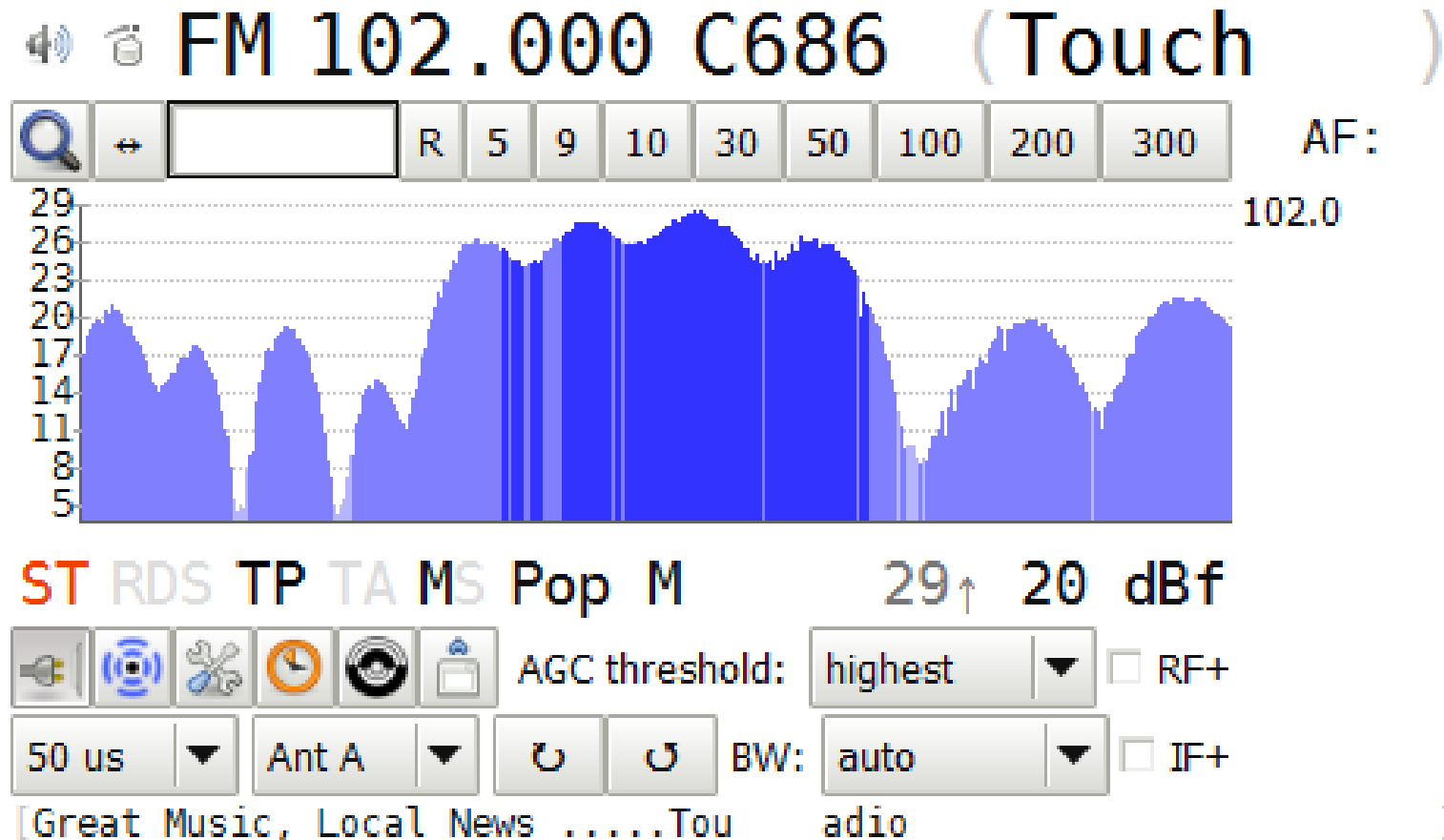
2014: 3

2013: 6

The Long Story...



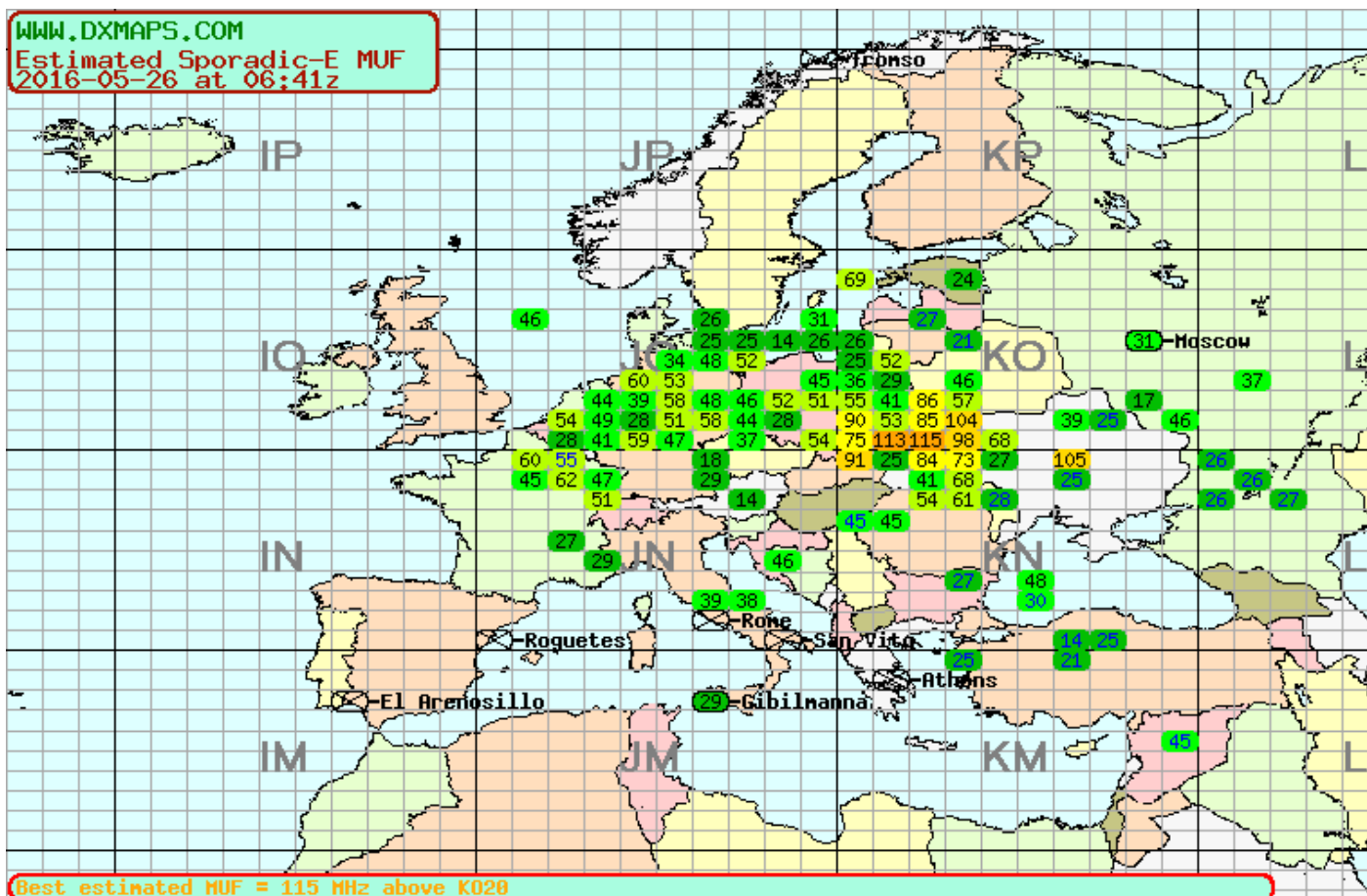
Surprise Start...



25-05-2016 15:53:55 UTC

WWW.DXMAPS.COM

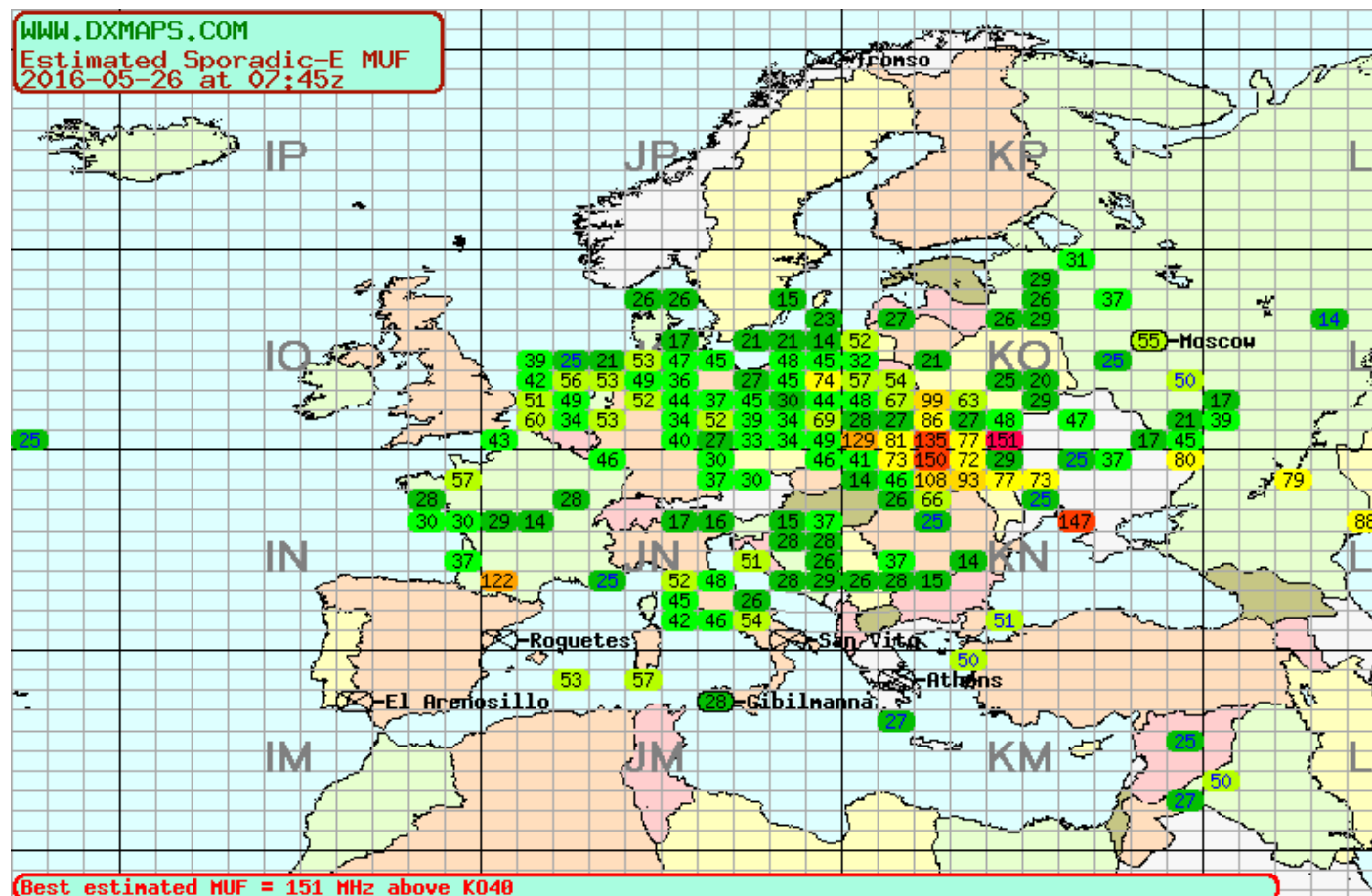
Estimated Sporadic-E MUF
2016-05-26 at 06:41z



Best estimated MUF = 115 MHz above K020

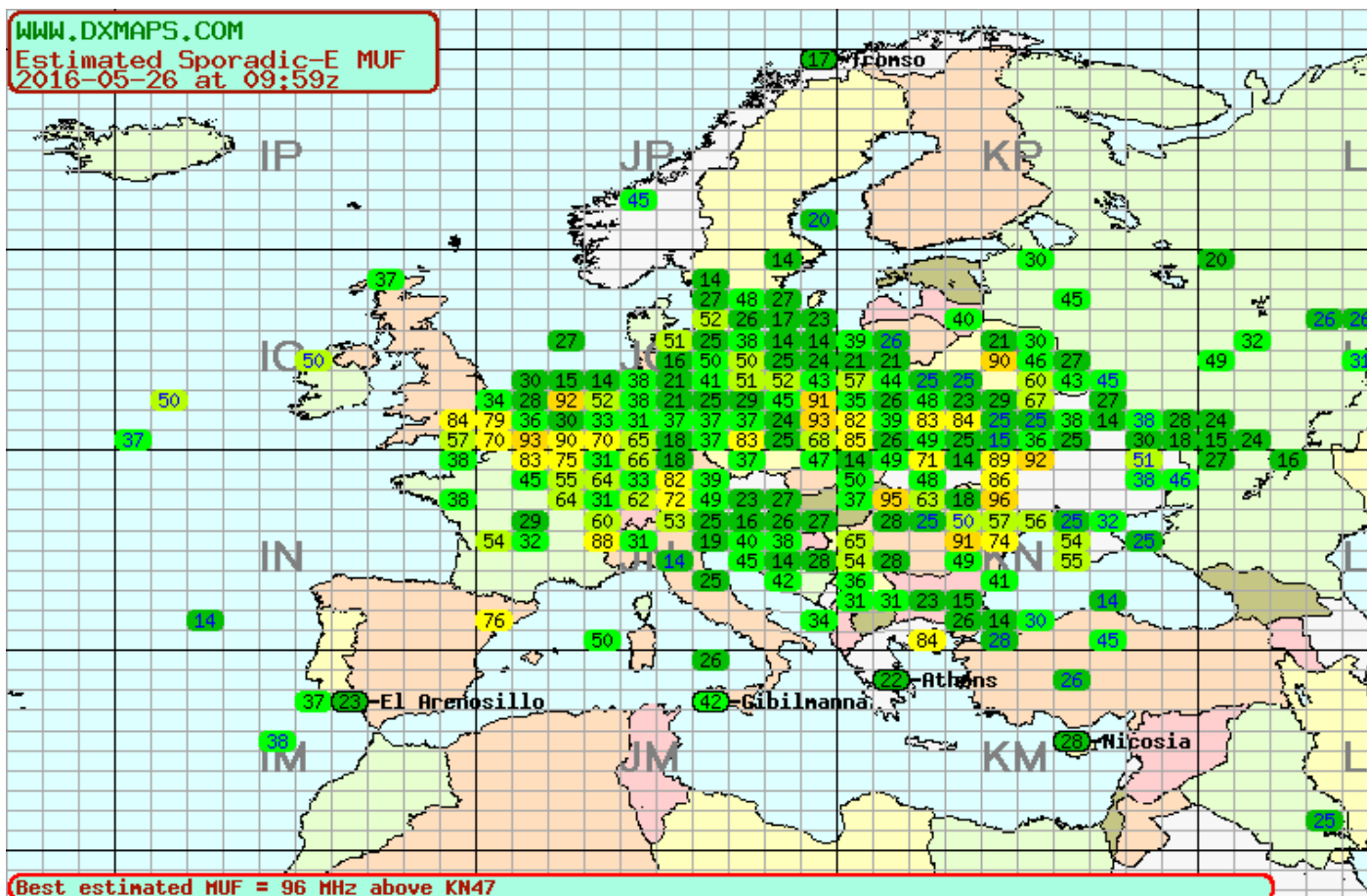
WWW.DXMAPS.COM

Estimated Sporadic-E MUF
2016-05-26 at 07:45z

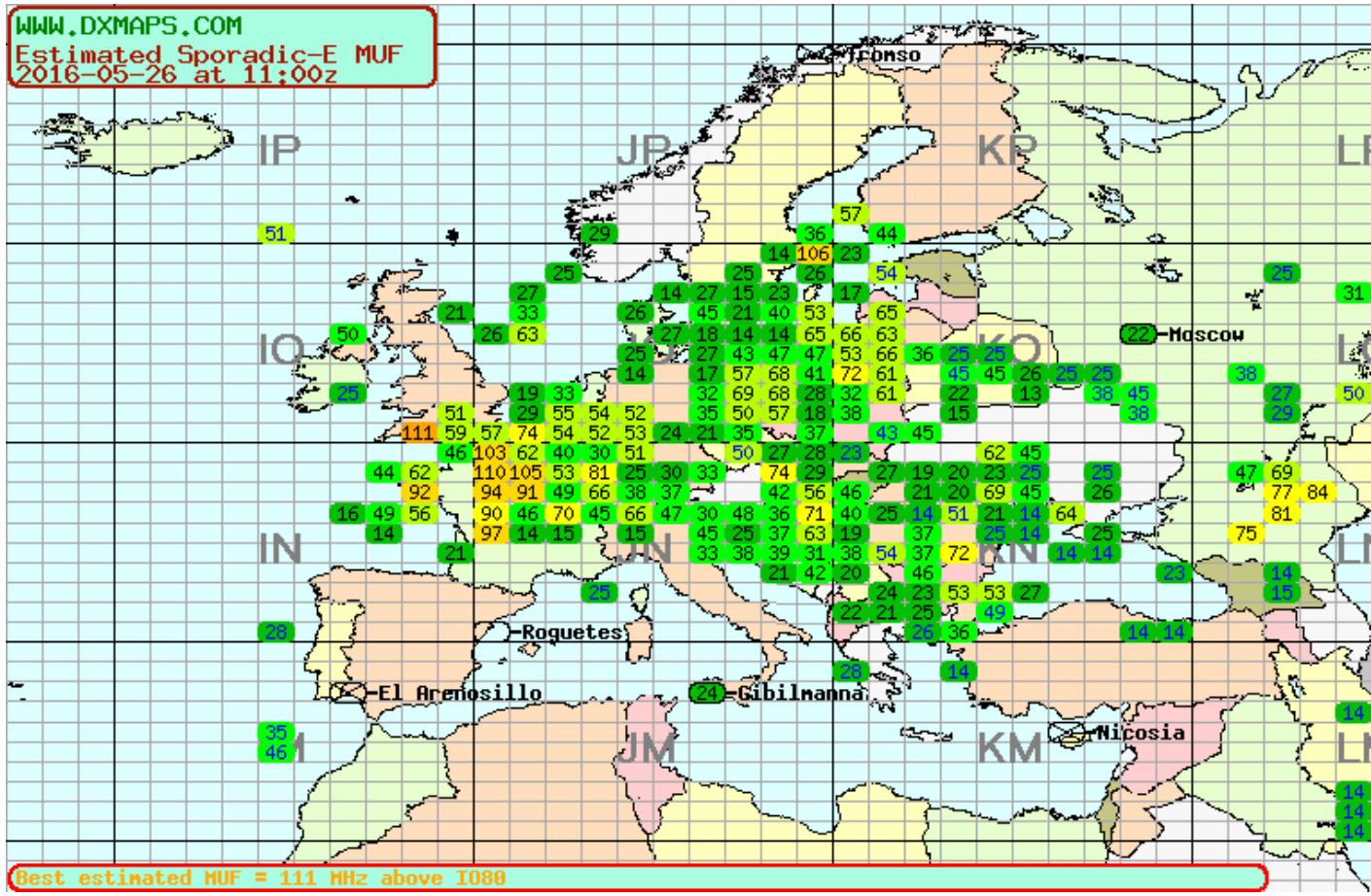


WWW.DXMAPS.COM

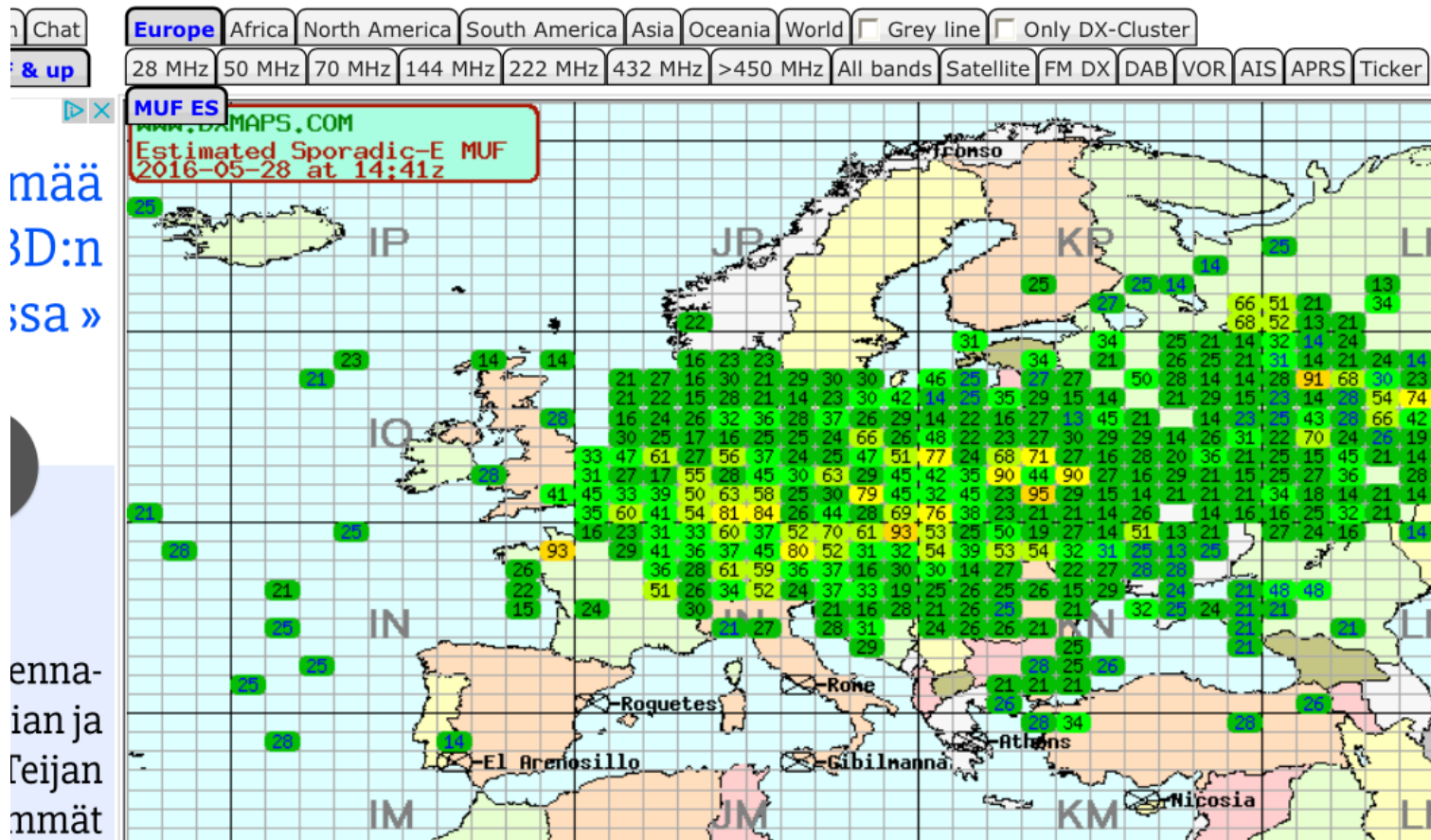
Estimated Sporadic-E MUF
2016-05-26 at 09:59z



Best estimated MUF = 96 MHz above KN47



MINI 0 2.0 – Operadio L clouds location and estimated 1001 feet time map



DXMAPS 2.0 Sporadic E clouds location and estimated MUF

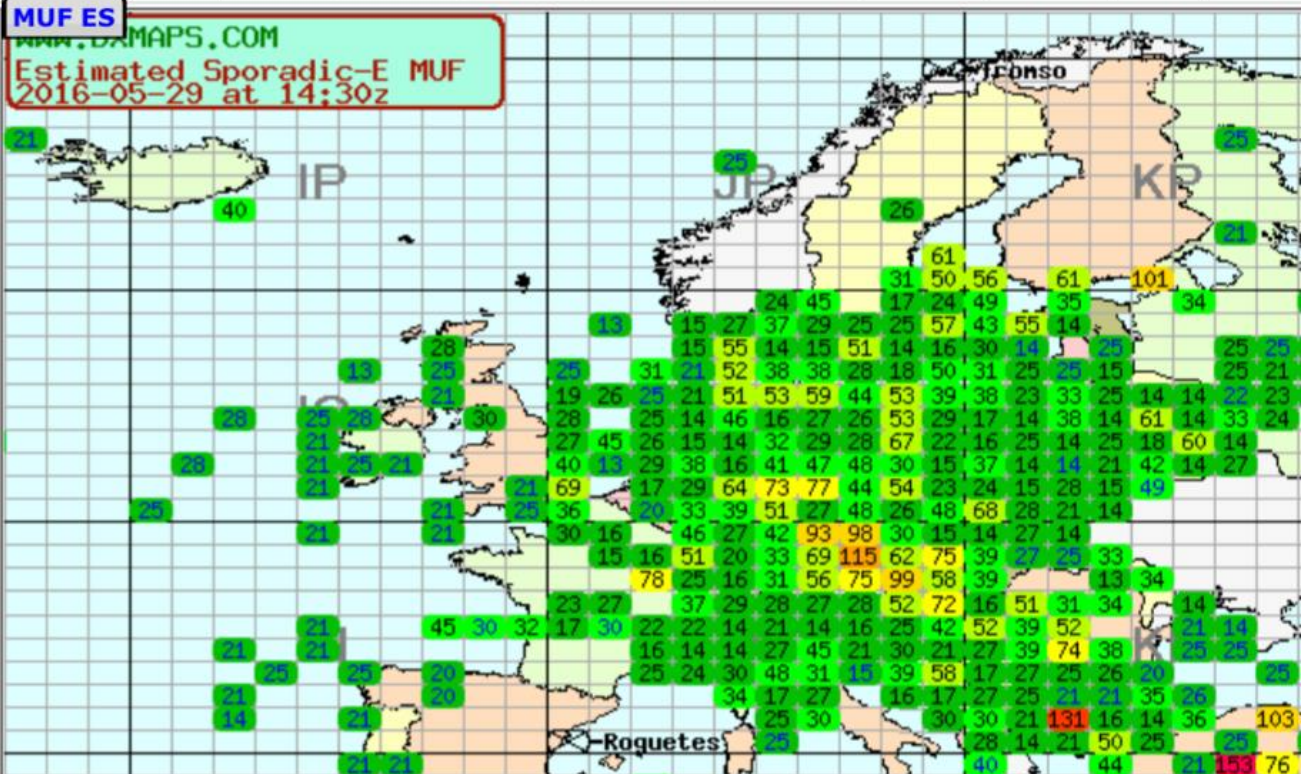
lap List Graph Chat Europe Africa North America South America Asia Oceania World Grey line Only DX-Cluster
 LF - HF VHF & up 28 MHz 50 MHz 70 MHz 144 MHz 222 MHz 432 MHz >450 MHz All bands Satellite FM DX DAB V

MUF ES

WWW.DXMAPS.COM

Estimated Sporadic-E MUF
 2016-05-29 at 14:30z

Etsitkö
 töitä?

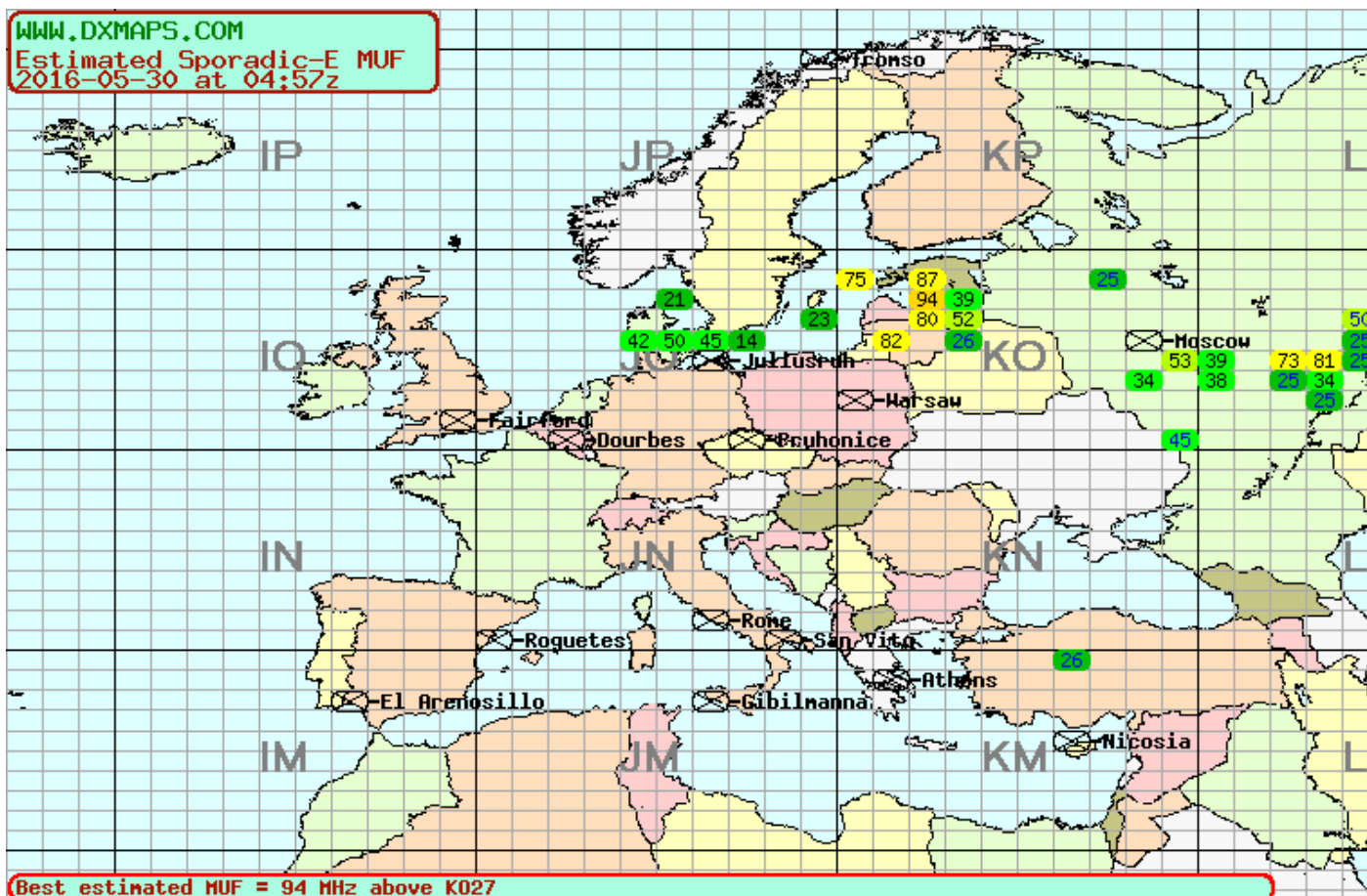


May 30: 2nd Most Active Day

...and guess who was on a business trip that day...

WWW.DXMAPS.COM

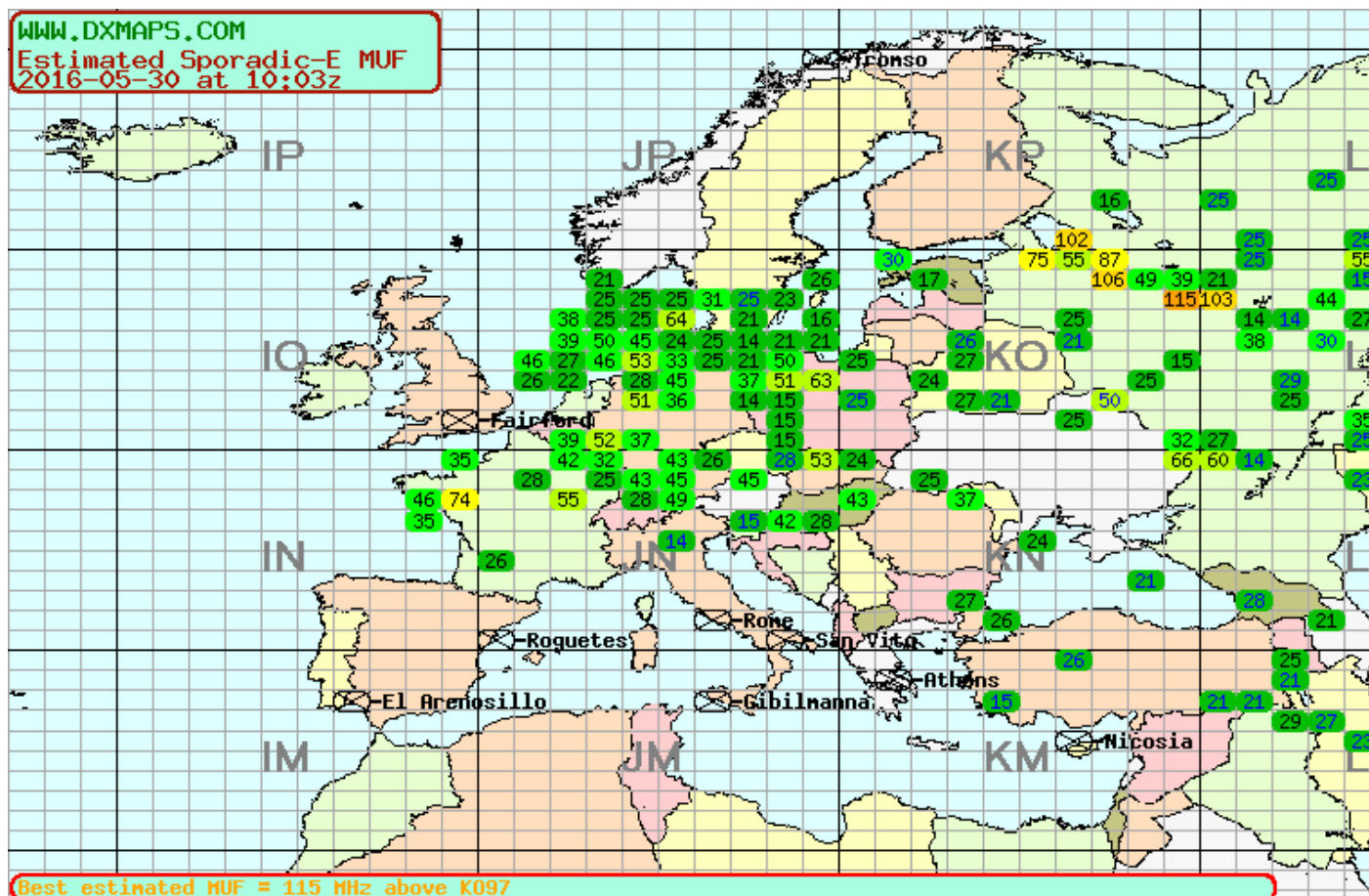
Estimated Sporadic-E MUF
2016-05-30 at 04:57Z



Best estimated MUF = 94 MHz above K027

WWW.DXMAPS.COM

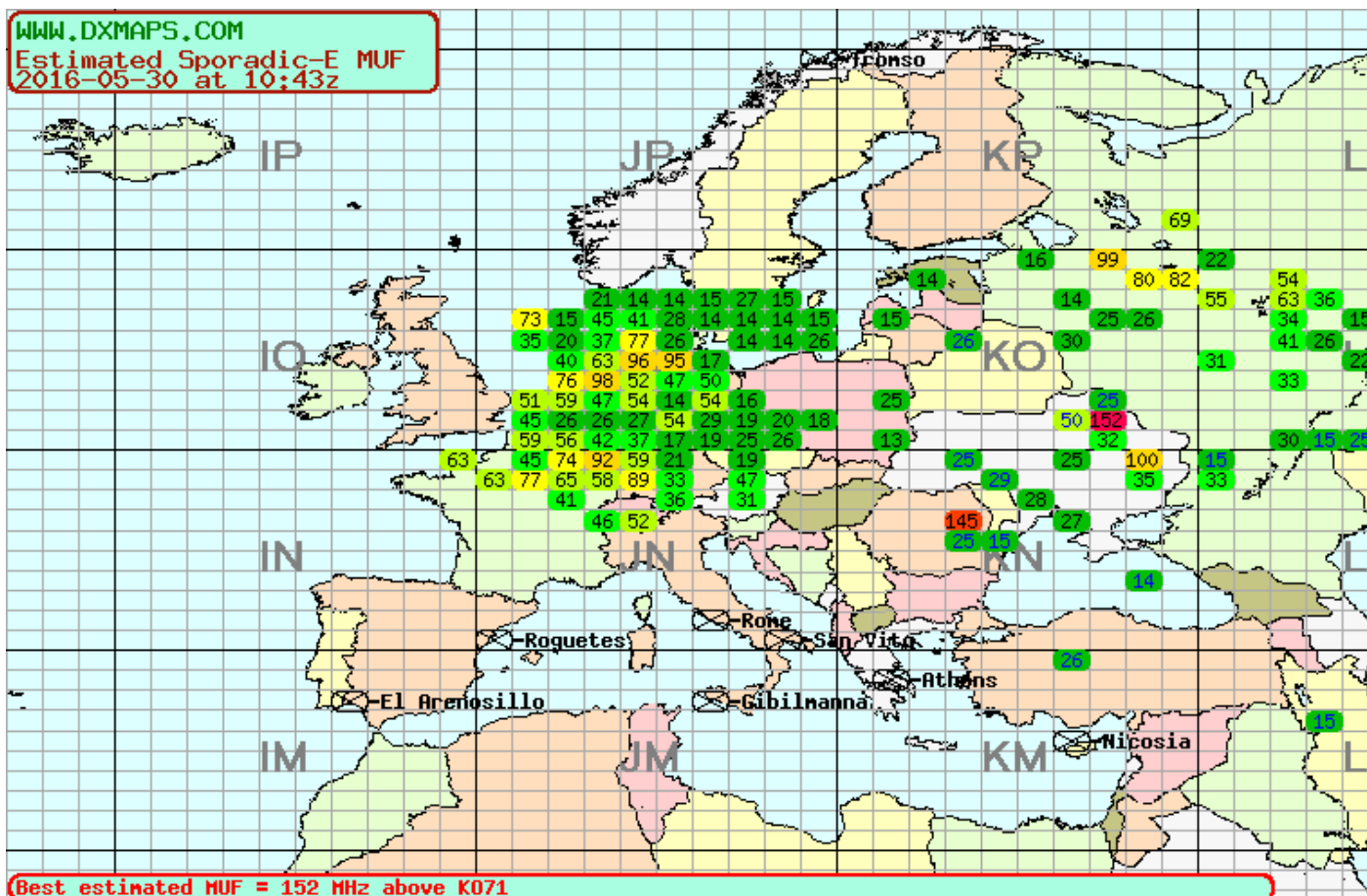
Estimated Sporadic-E MUF
2016-05-30 at 10:03z



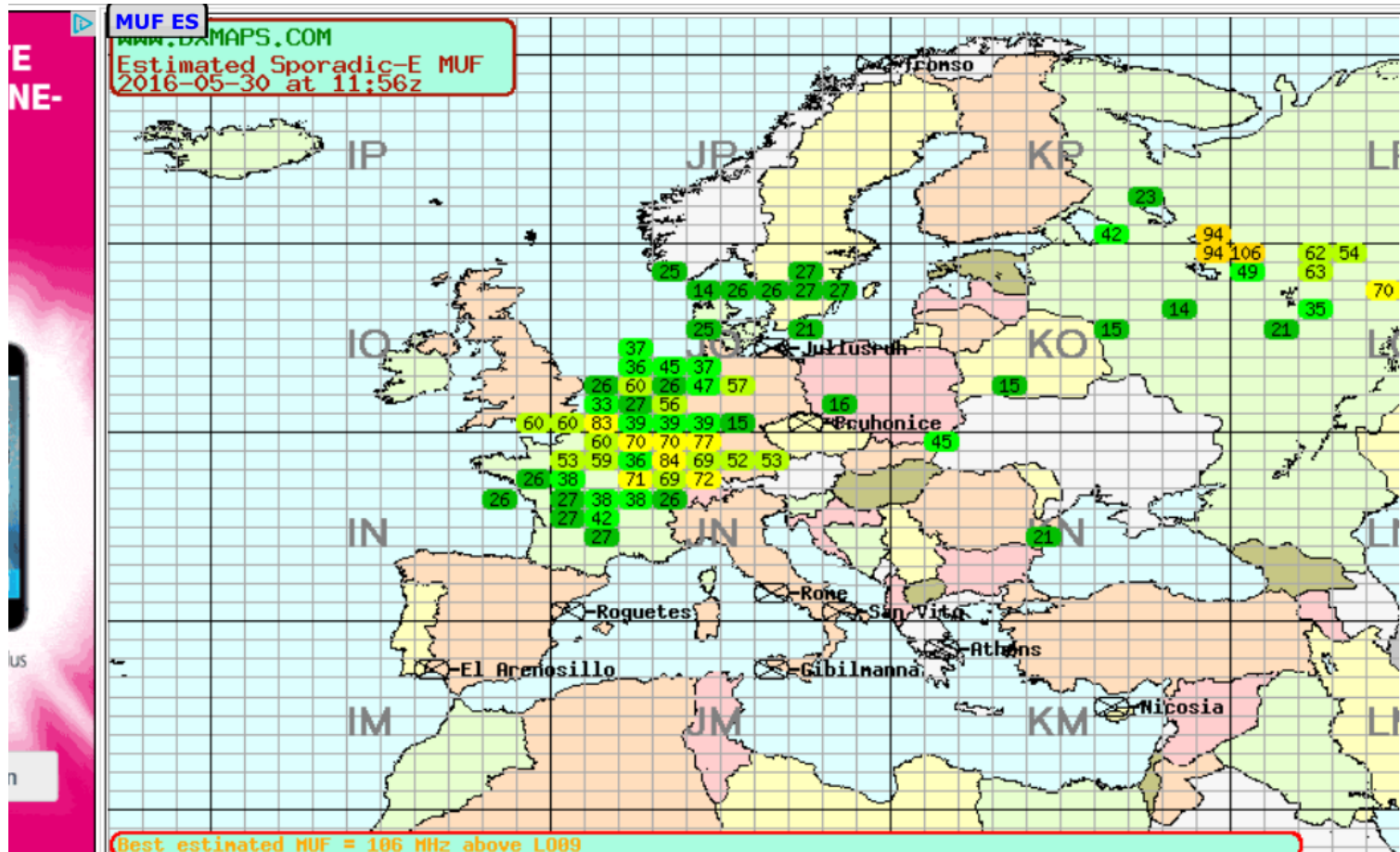
Best estimated MUF = 115 MHz above K097

WWW.DXMAPS.COM

Estimated Sporadic-E MUF
2016-05-30 at 10:43z



Best estimated MUF = 152 MHz above K071



...That was close



САМАРСКОЕ ГУБЕРНСКОЕ РАДИО



SEЙЧАС В ЭФИРЕ
30.02
ПРИМЕРОМ

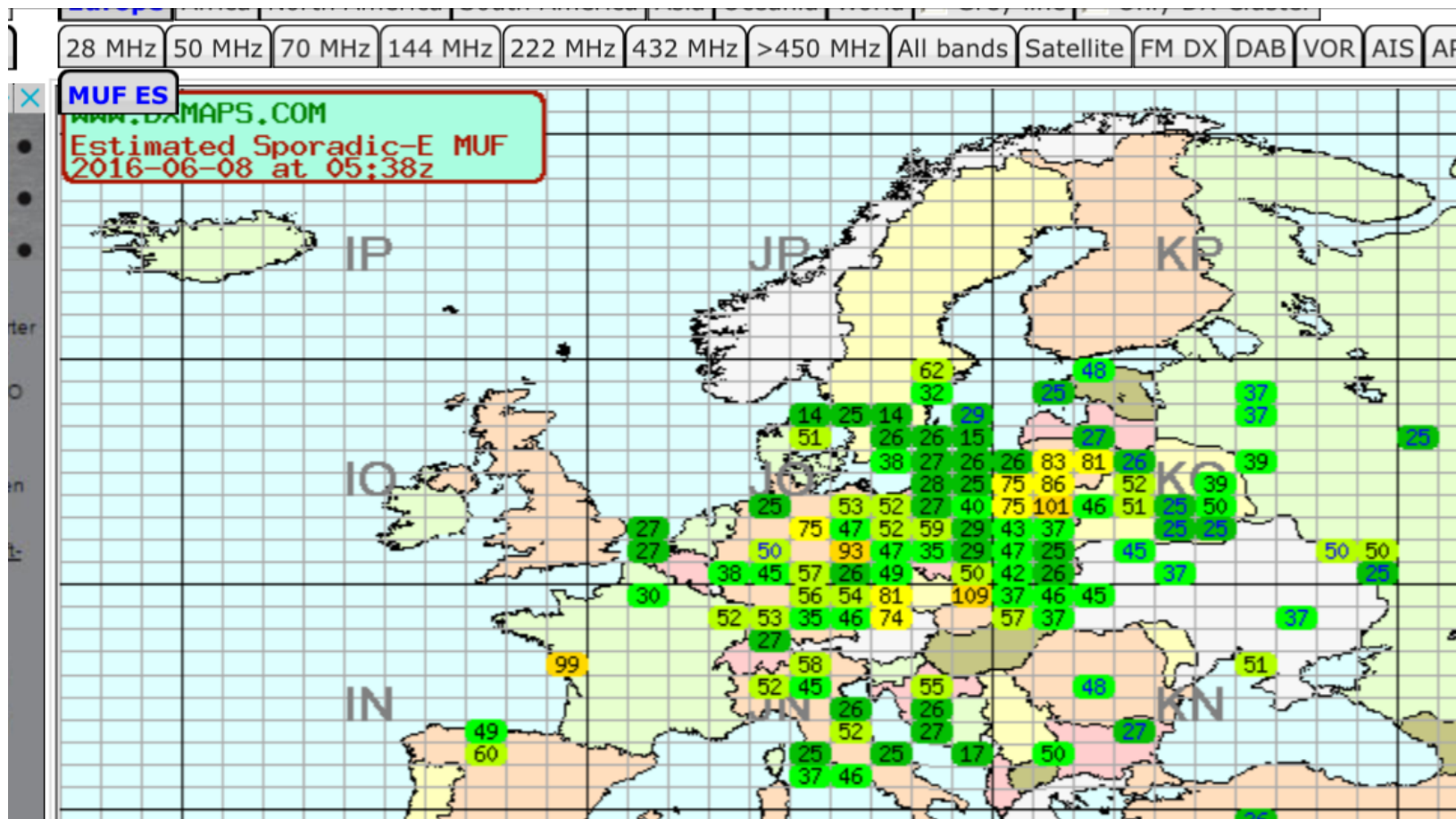
103.7 FM
САМАРА



Samarskoye Kubenskoye Radio 107.3 (JMS)

June 8: The Most Active Day

...and guess who was travelling to Utö DXpedition that day...



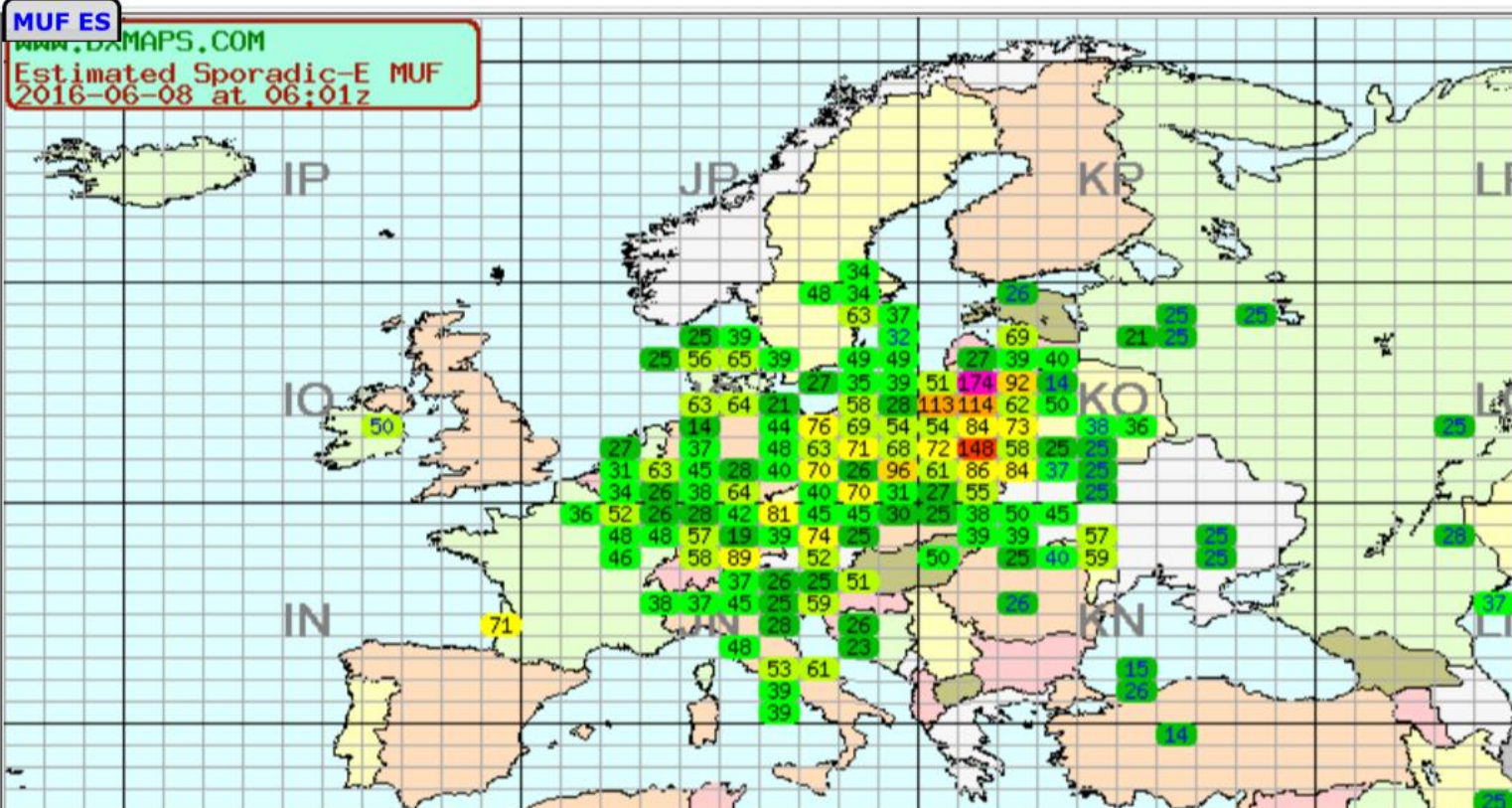
Europe Africa North America South America Asia Oceania World ☐ Grey line ☐ Only DX-Cluster

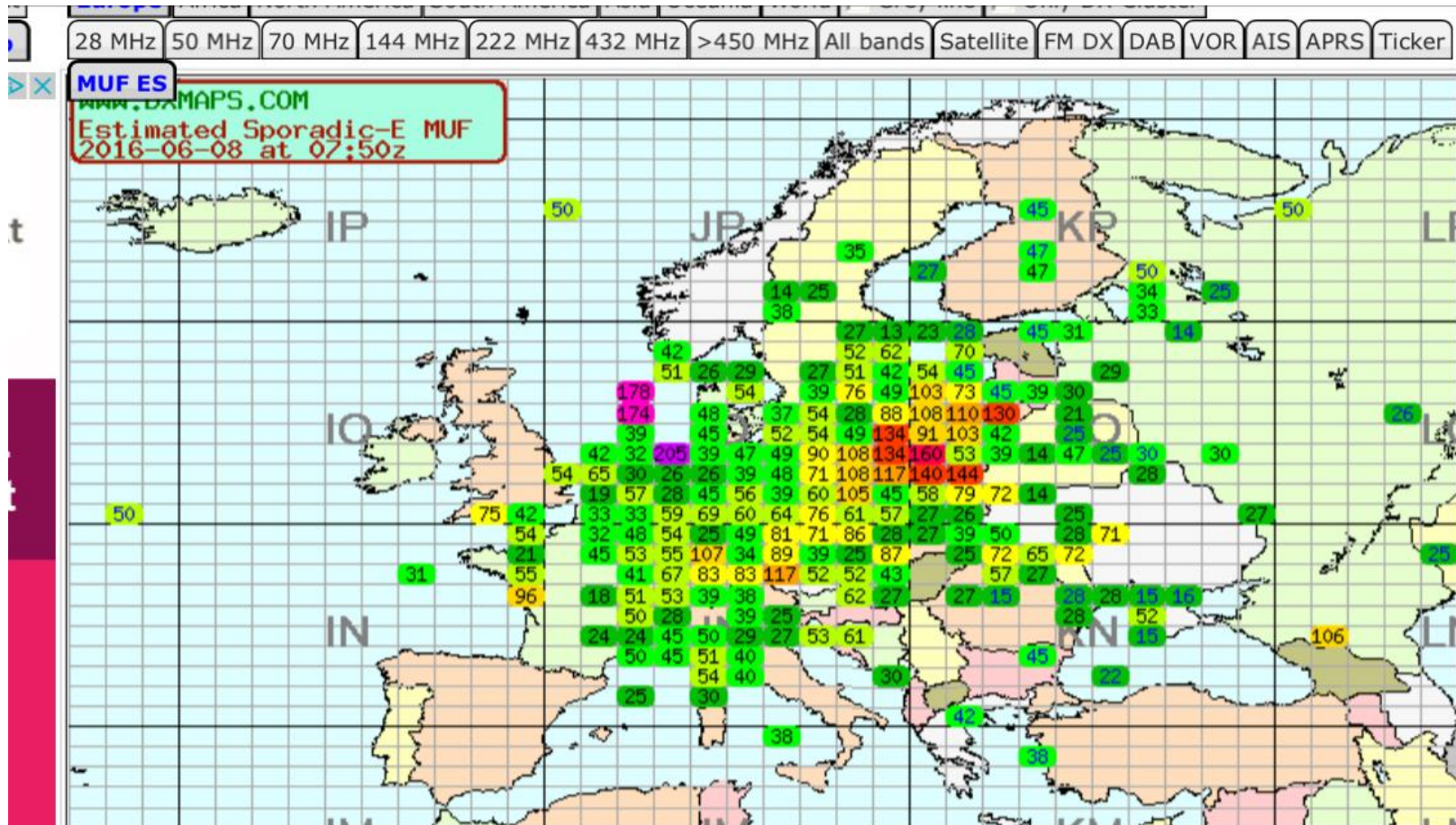
28 MHz	50 MHz	70 MHz	144 MHz	222 MHz	432 MHz	>450 MHz	All bands	Satellite	FM DX	DAB	VOR	AIS	APRS	Ticker
--------	--------	--------	---------	---------	---------	----------	-----------	-----------	-------	-----	-----	-----	------	--------

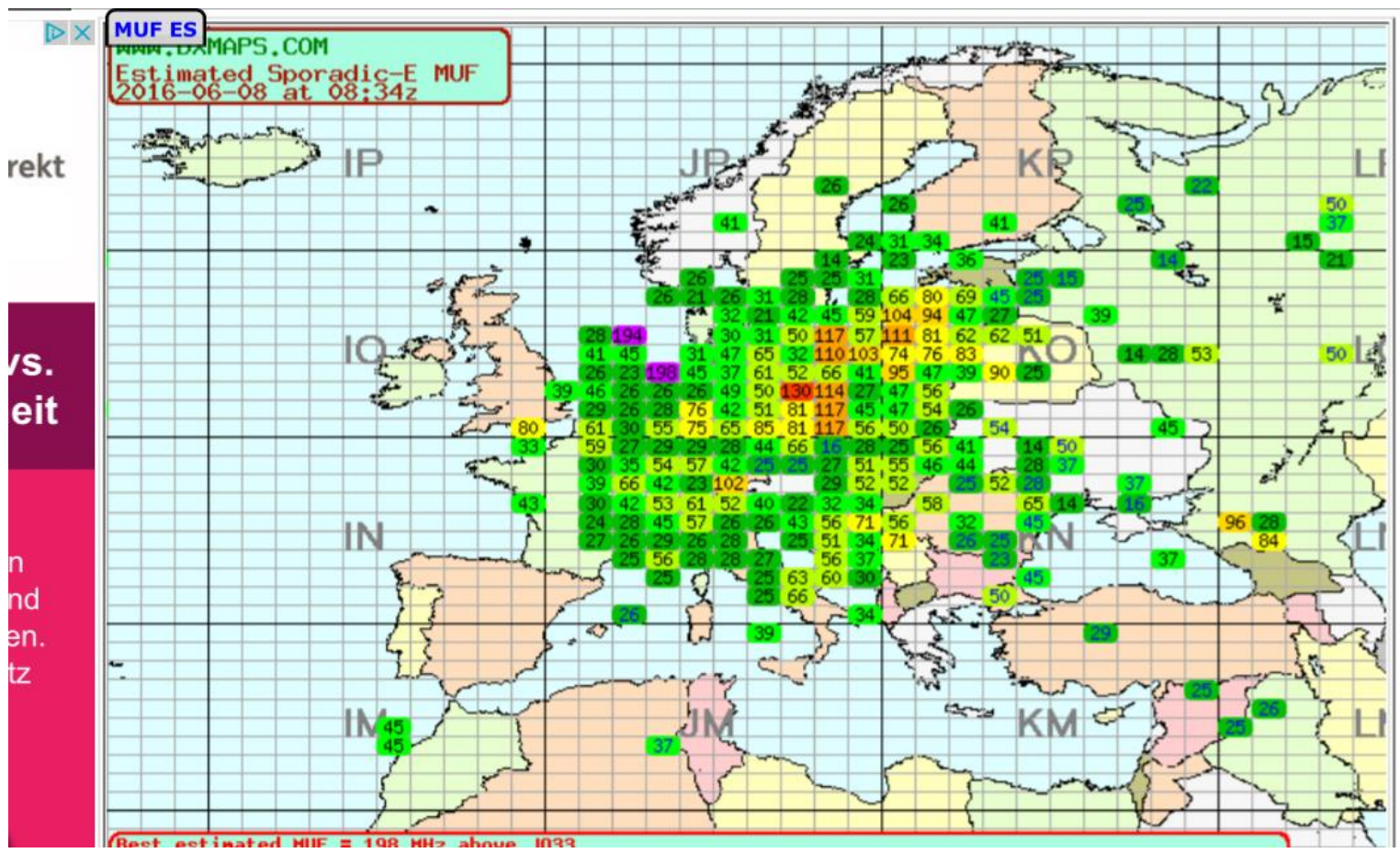
MUF ES

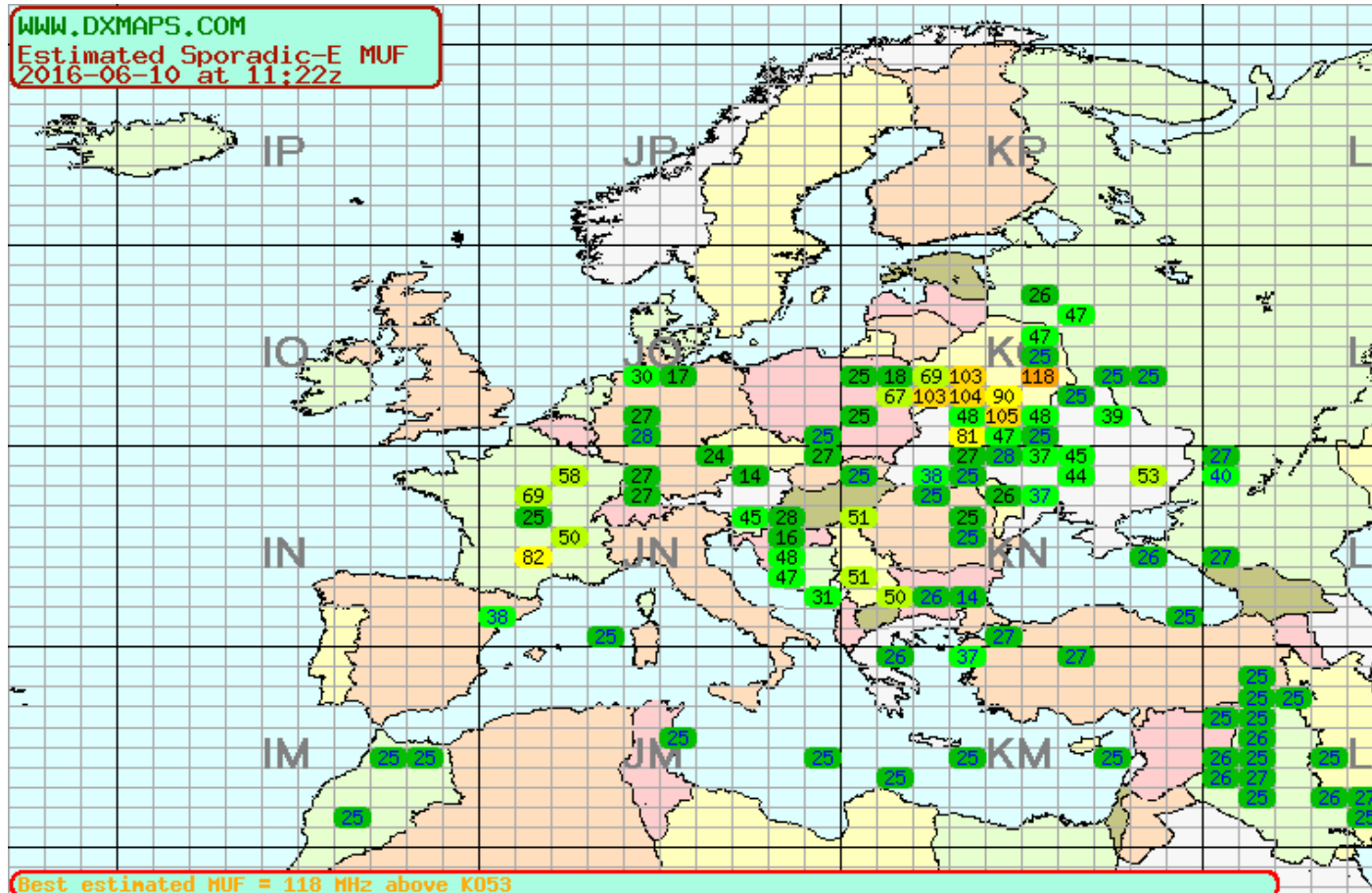
WWW.DXMAPS.COM

Estimated Sporadic-E MUF
2016-06-08 at 06:01z



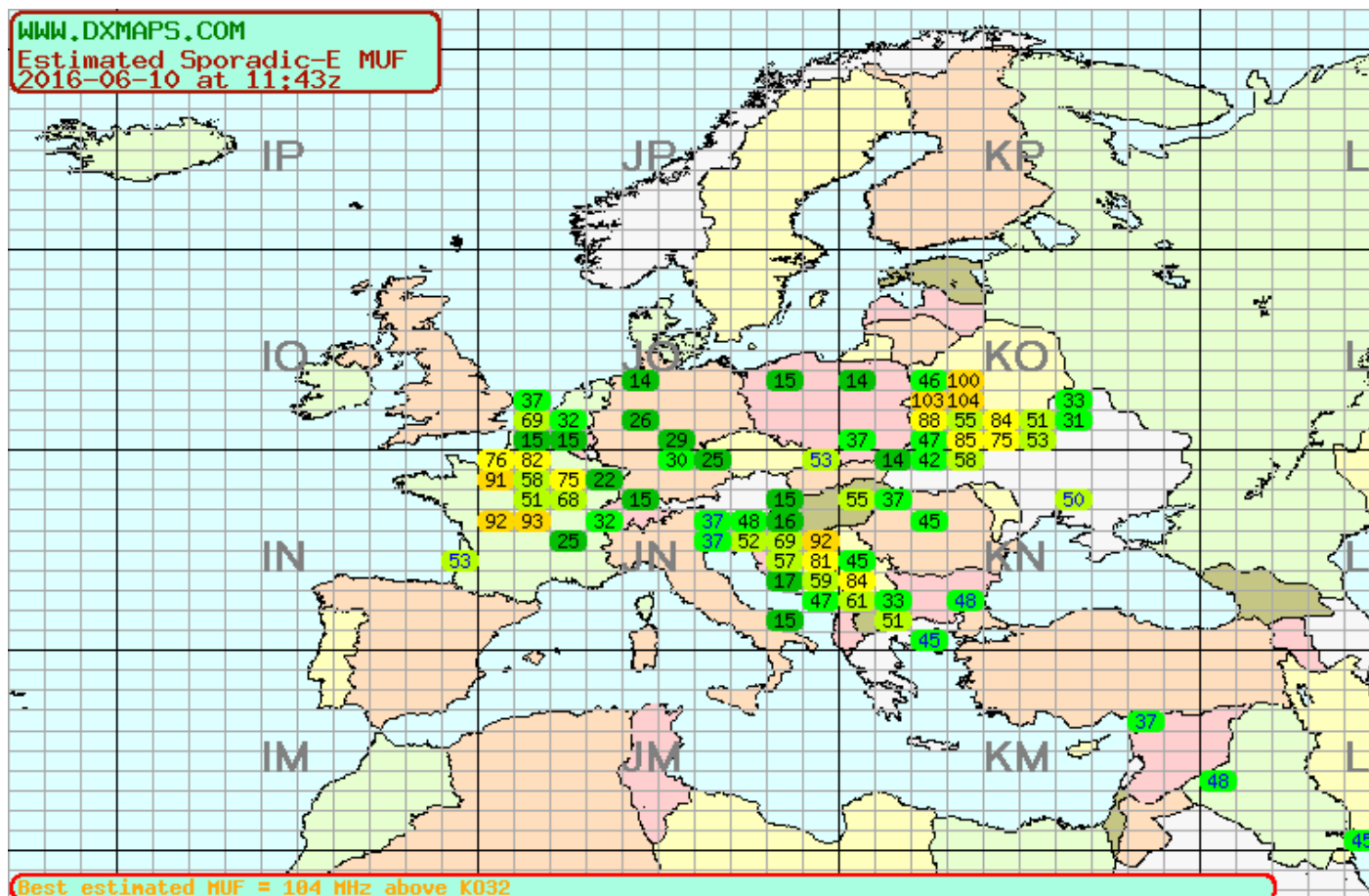






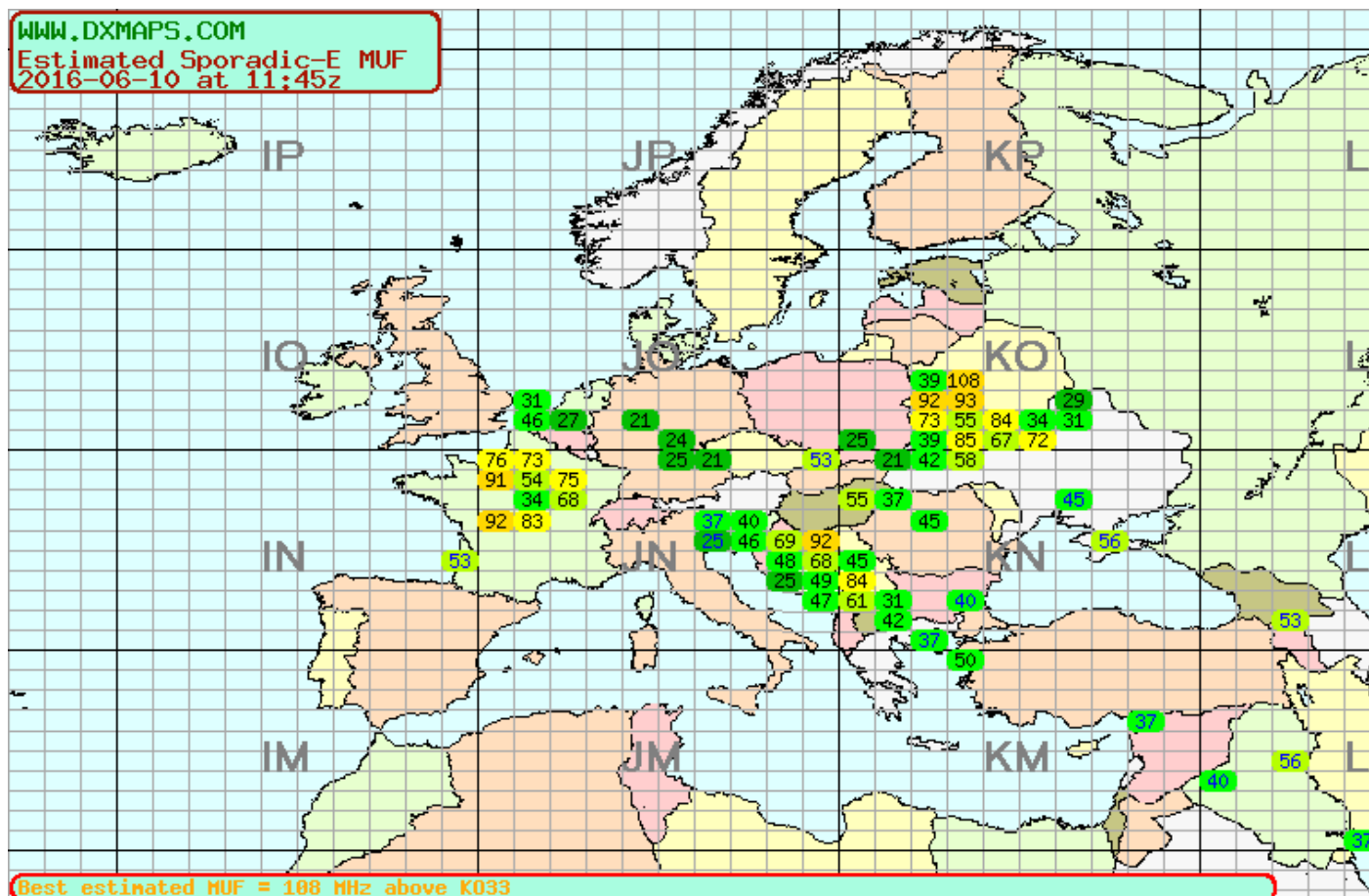
WWW.DXMAPS.COM

Estimated Sporadic-E MUF
2016-06-10 at 11:43z



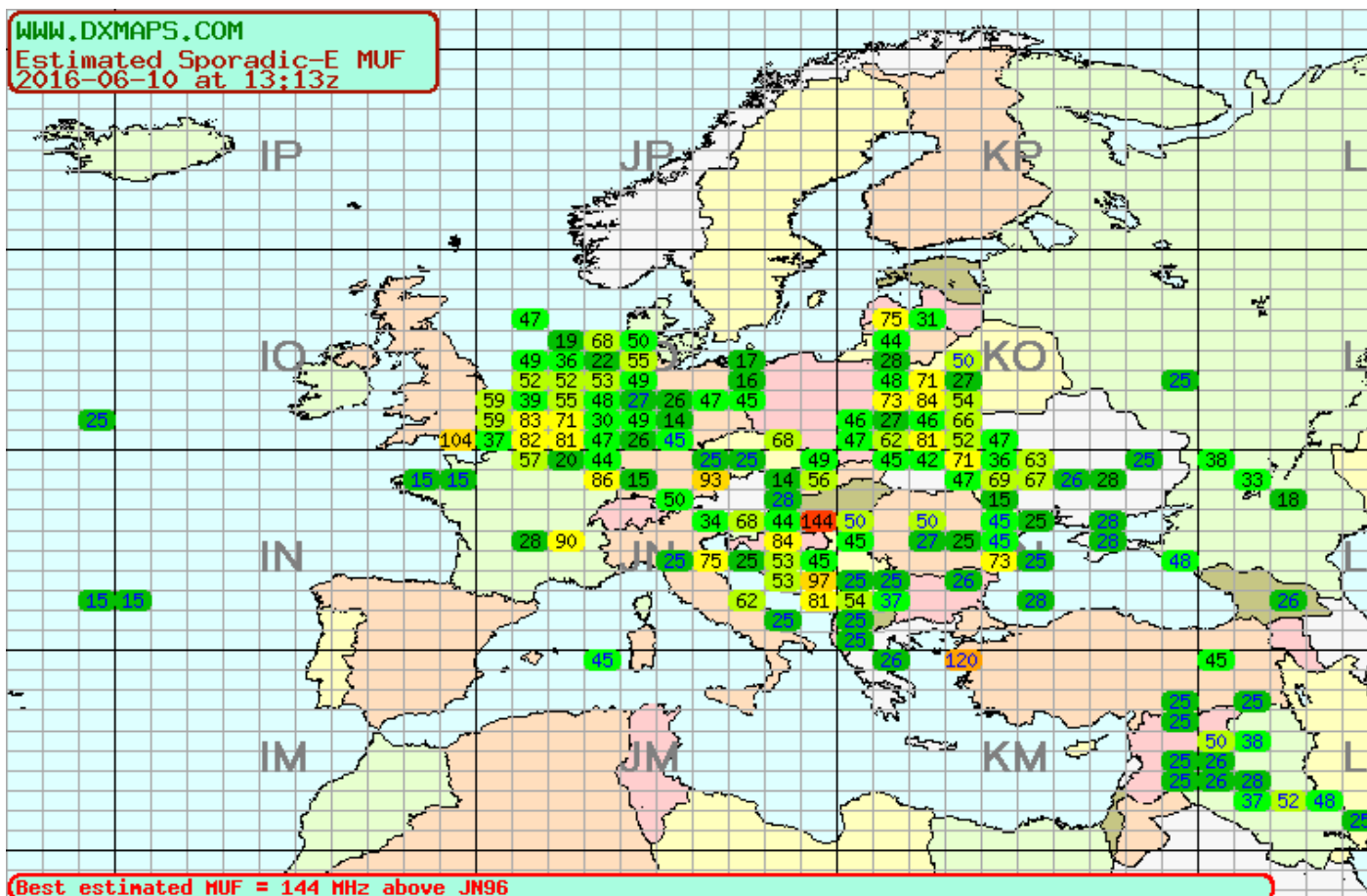
WWW.DXMAPS.COM

Estimated Sporadic-E MUF
2016-06-10 at 11:45z



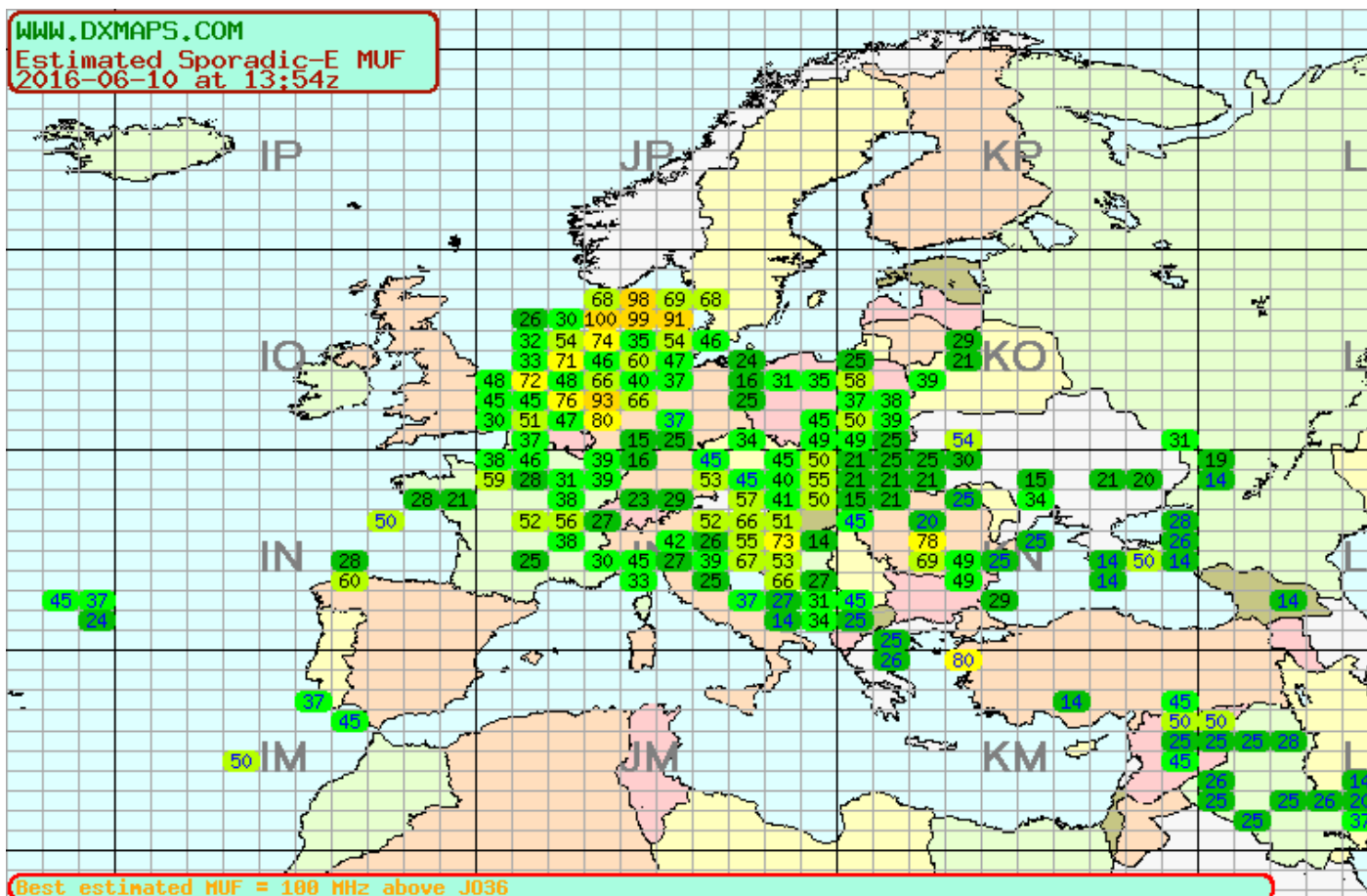
Best estimated MUF = 108 MHz above K033

Estimated Sporadic-E MUF
2016-06-10 at 13:13z

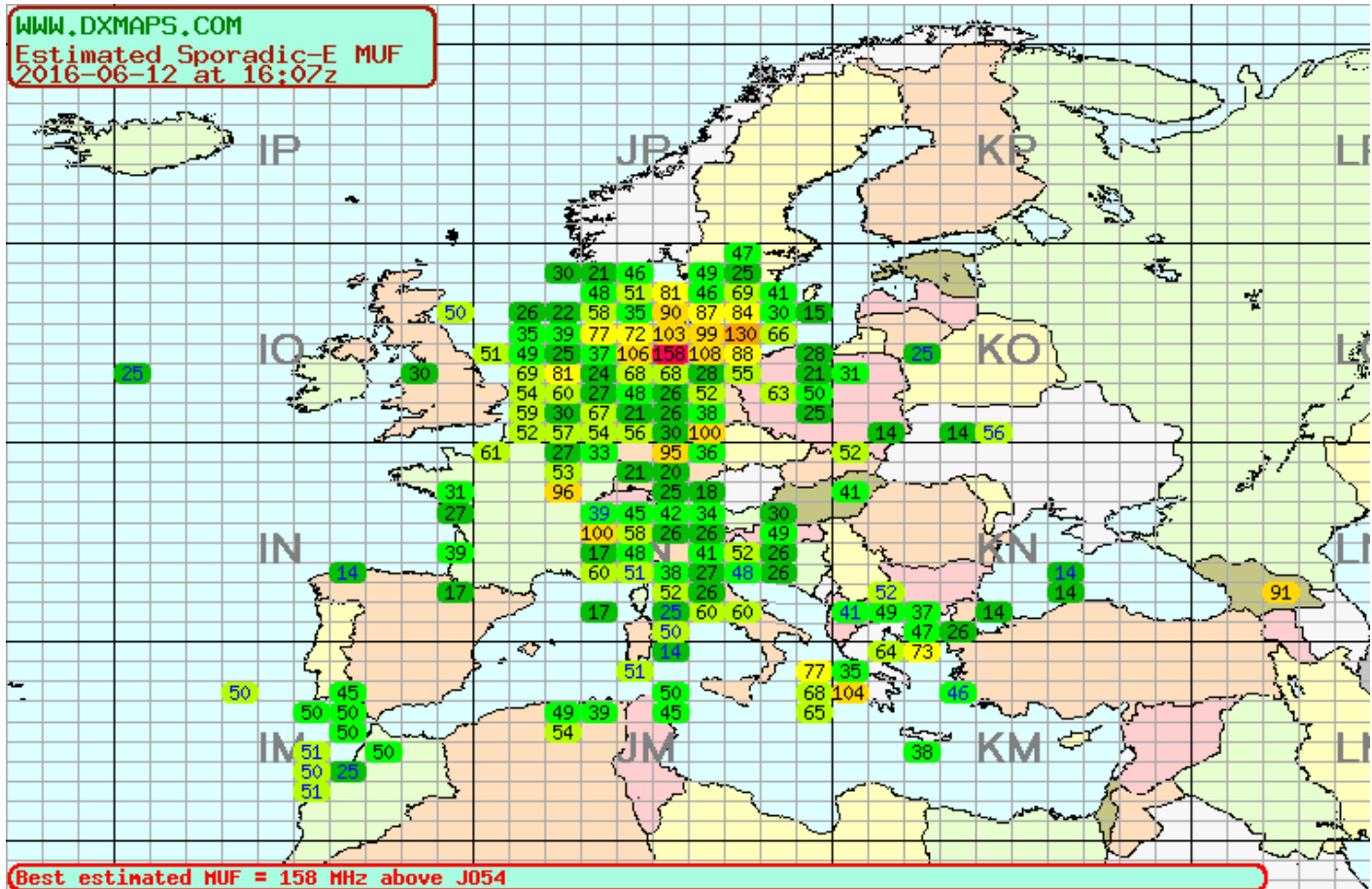


WWW.DXMAPS.COM

Estimated Sporadic-E MUF
2016-06-10 at 13:54z

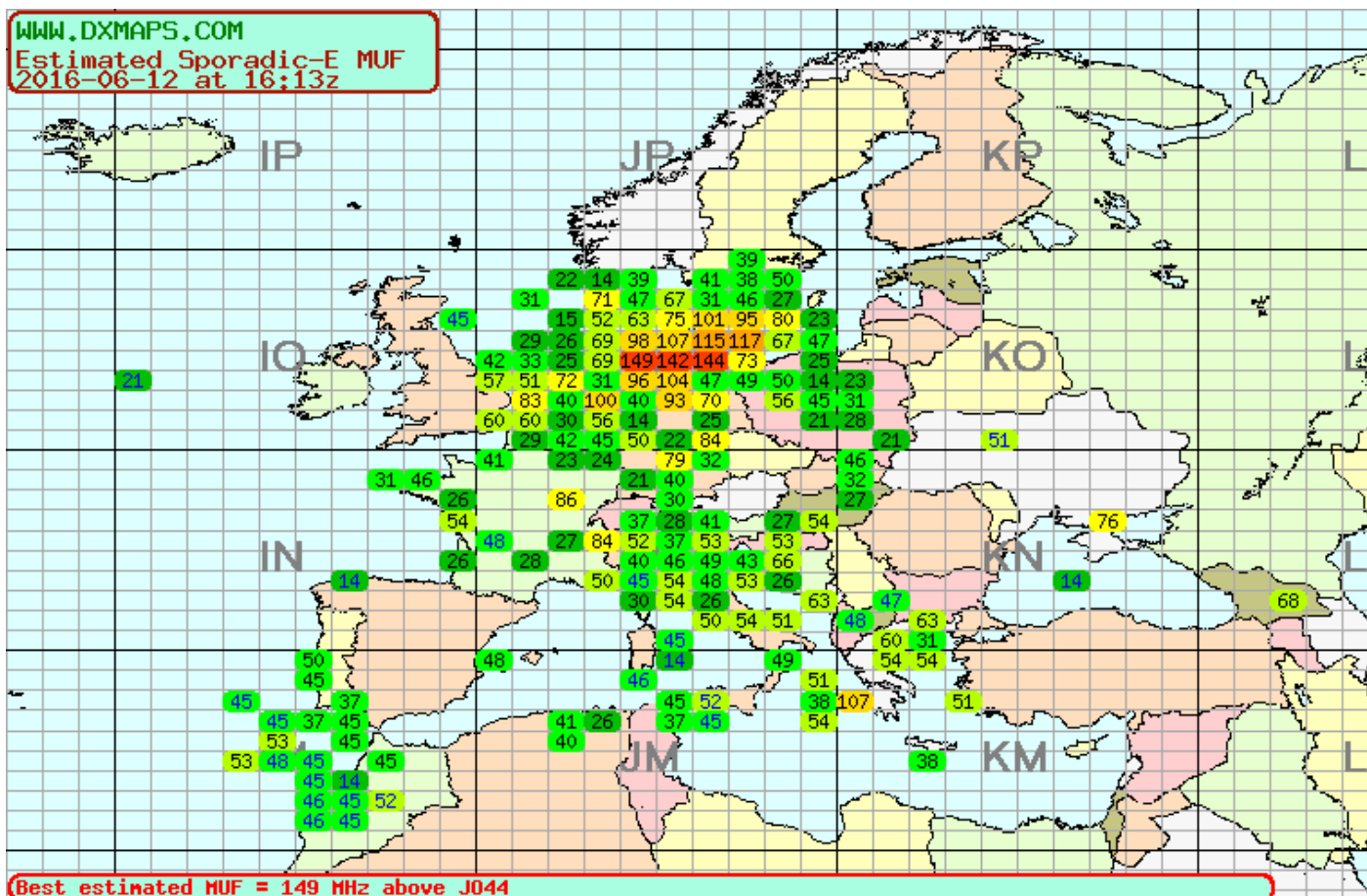


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Estimated Sporadic-E MUF
2016-06-12 at 16:07z



WWW.DXMAPS.COM

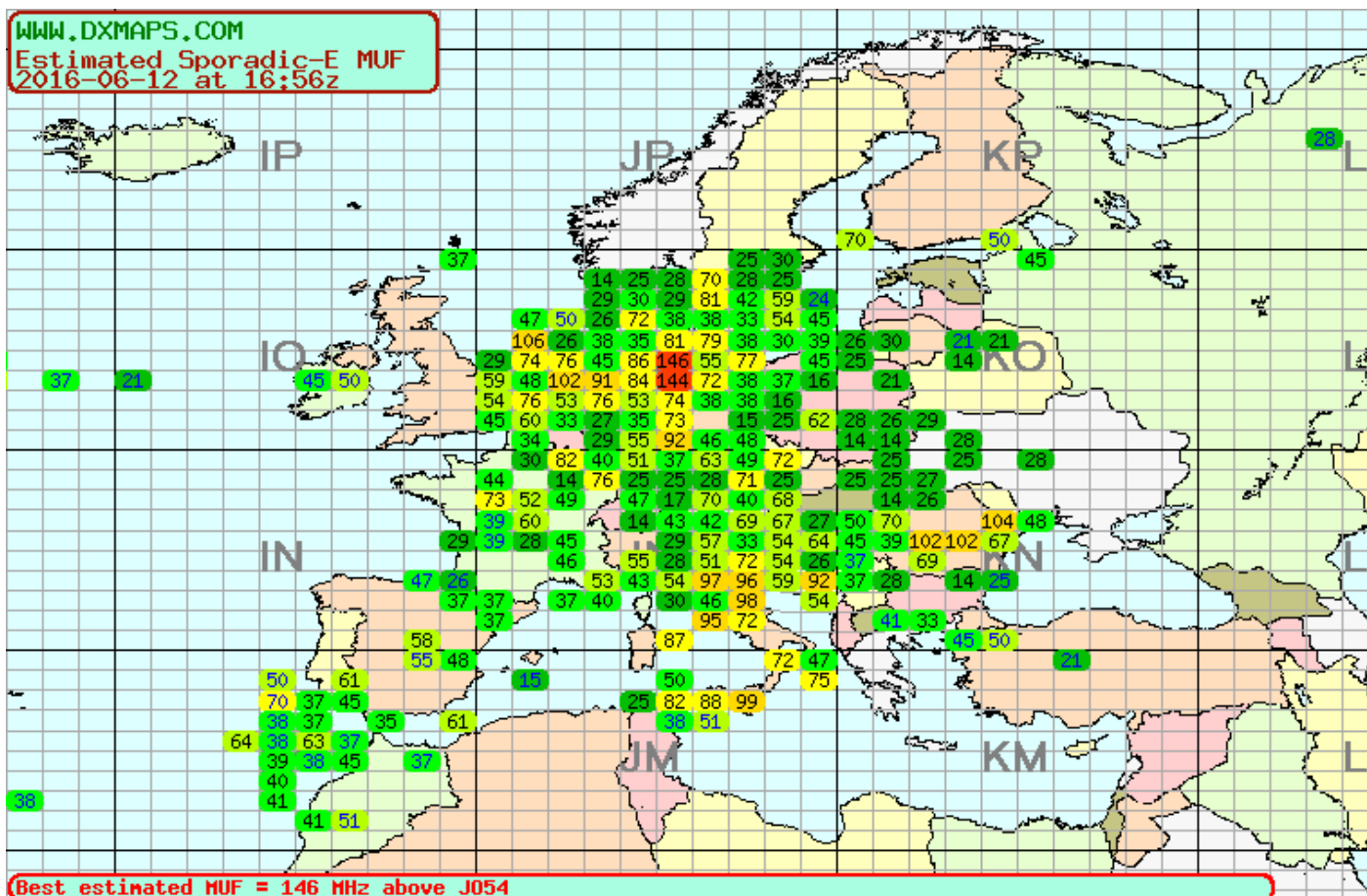
Estimated Sporadic-E MUF
2016-06-12 at 16:13z



Best estimated MUF = 149 MHz above J044

WWW.DXMAPS.COM

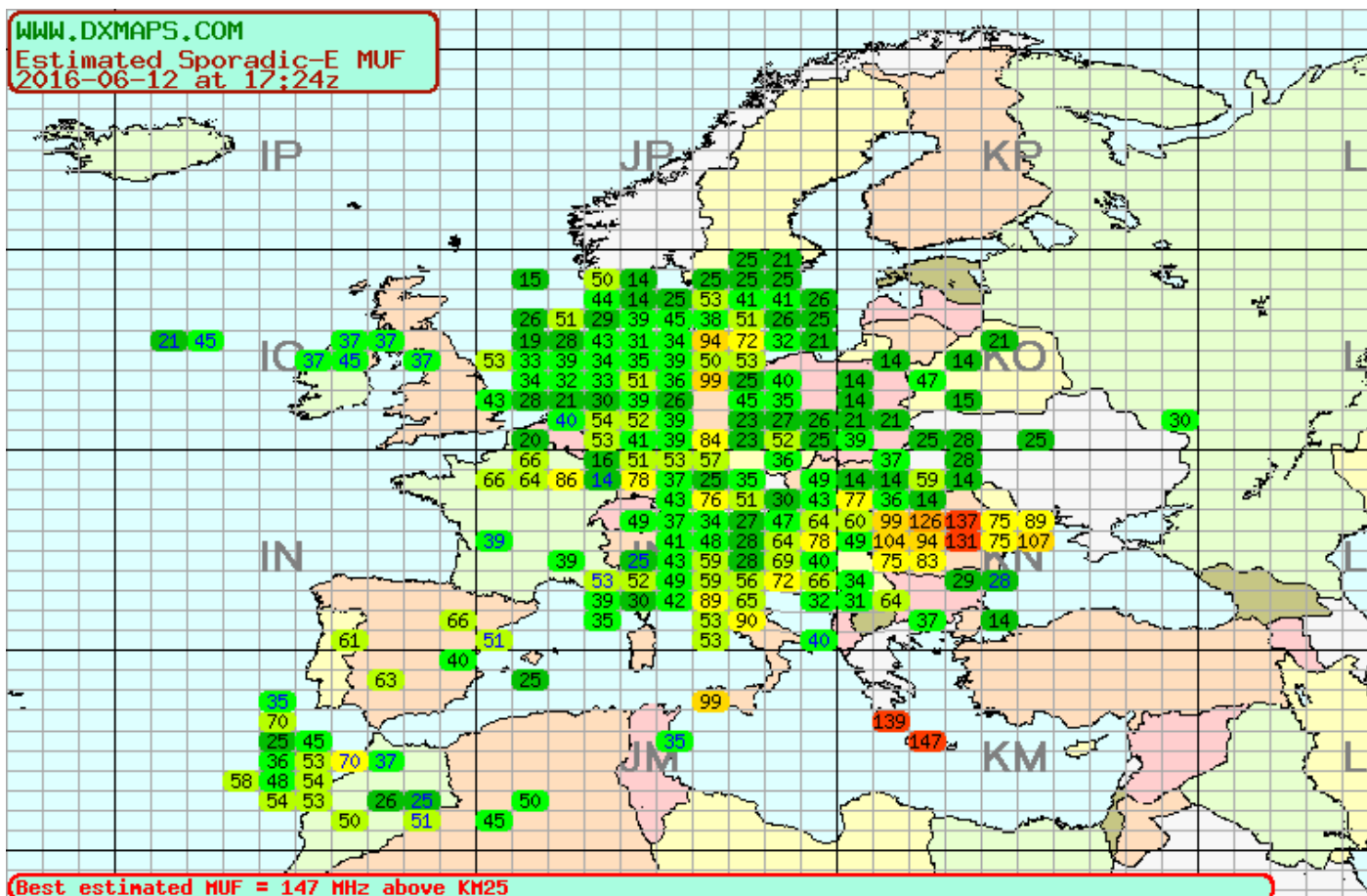
Estimated Sporadic-E MUF
2016-06-12 at 16:56z



Best estimated MUF = 146 MHz above J054

WWW.DXMAPS.COM

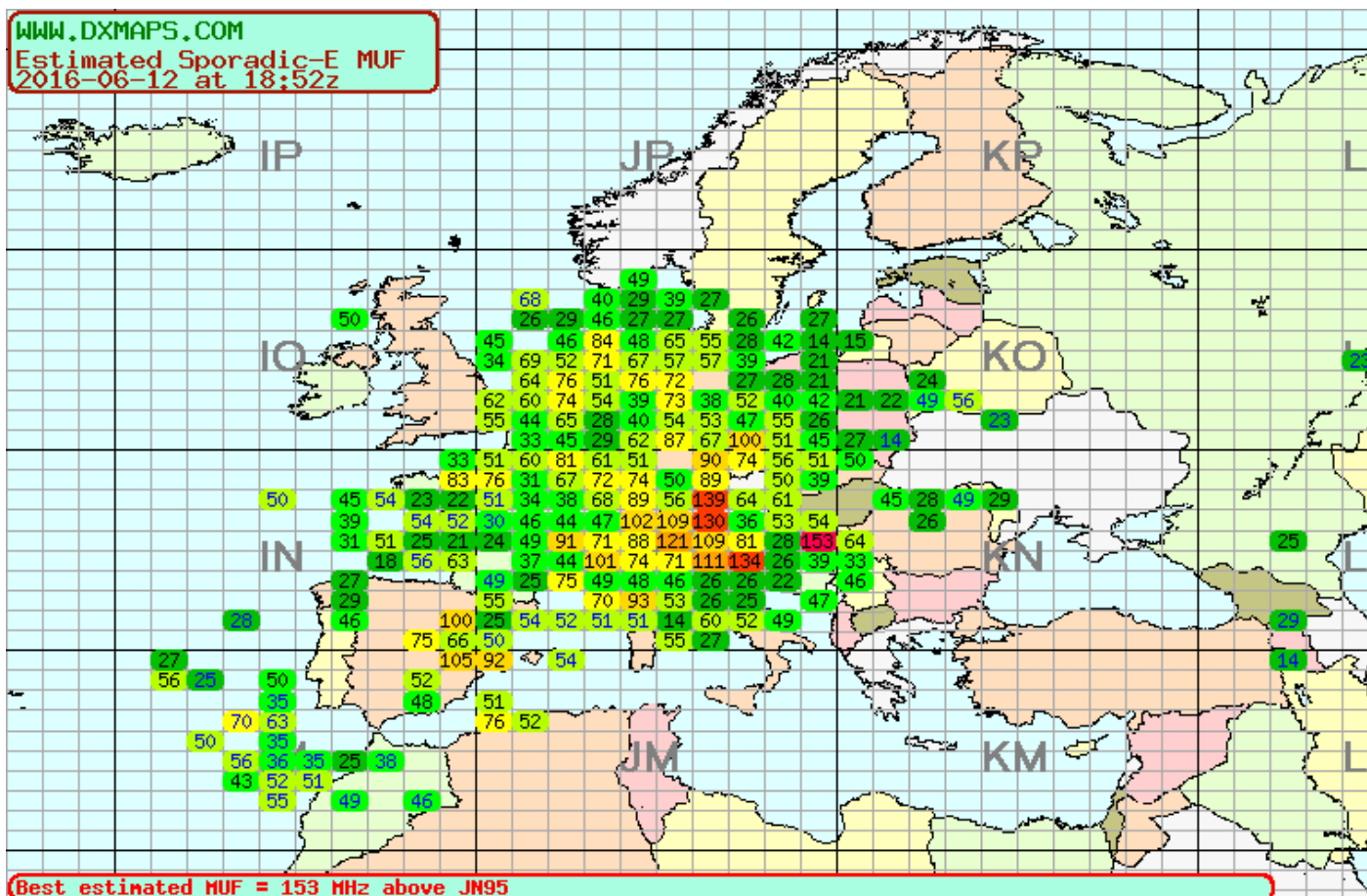
Estimated Sporadic-E MUF
2016-06-12 at 17:24z



Best estimated MUF = 147 MHz above KM25

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Estimated Sporadic-E MUF
2016-06-12 at 18:52z

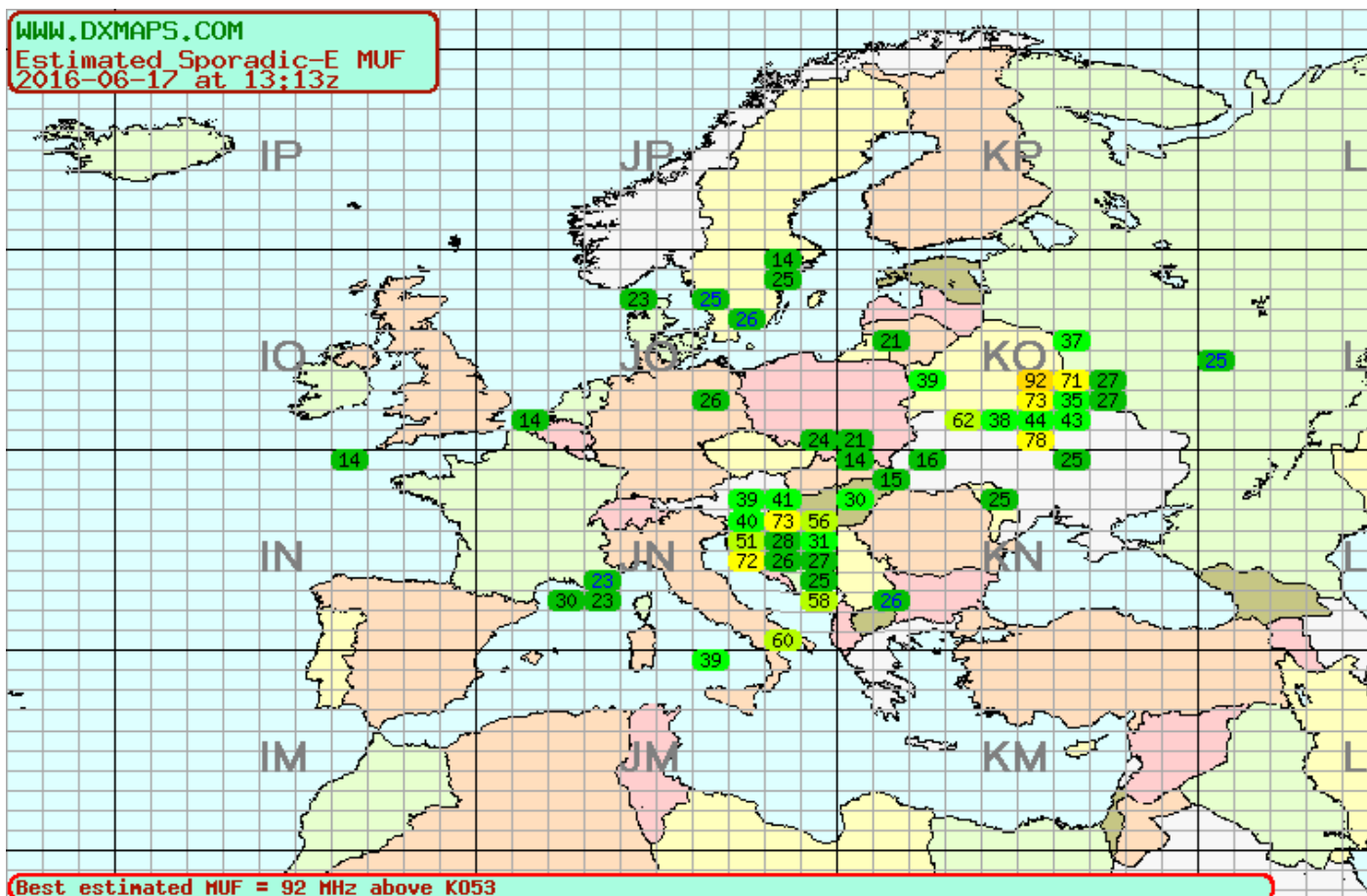




99.1 F: Radio 666, Caen (14) 12.6.2016 1833 UTC (JMS)

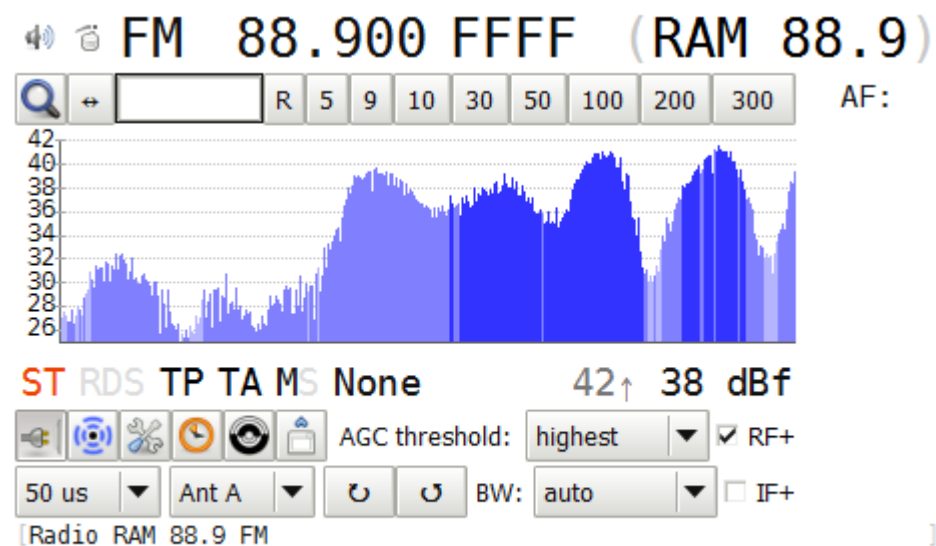
WWW.DXMAPS.COM

Estimated Sporadic-E MUF
2016-06-17 at 13:13z



Best estimated MUF = 92 MHz above K053

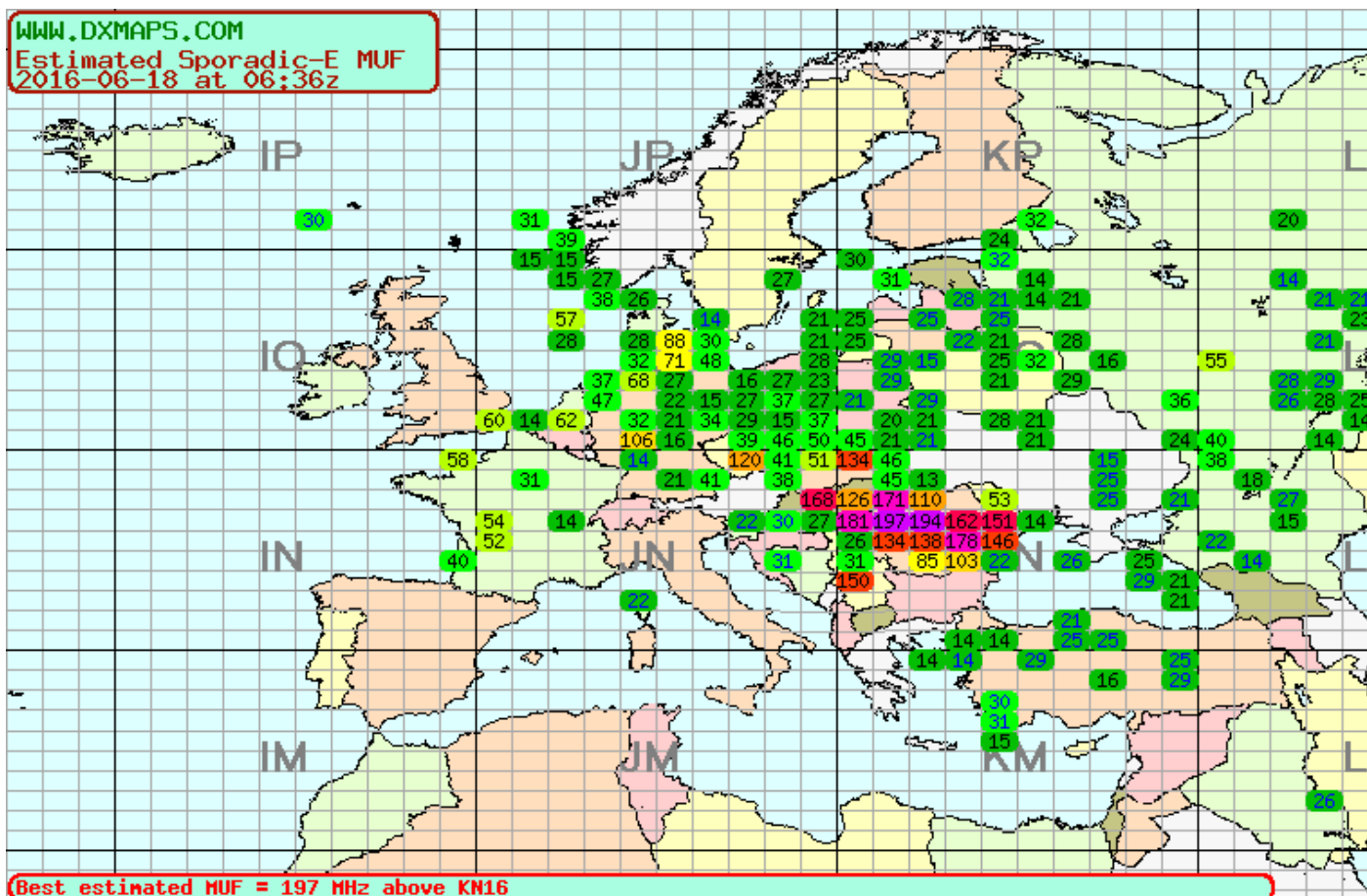
Whoa... Libya!

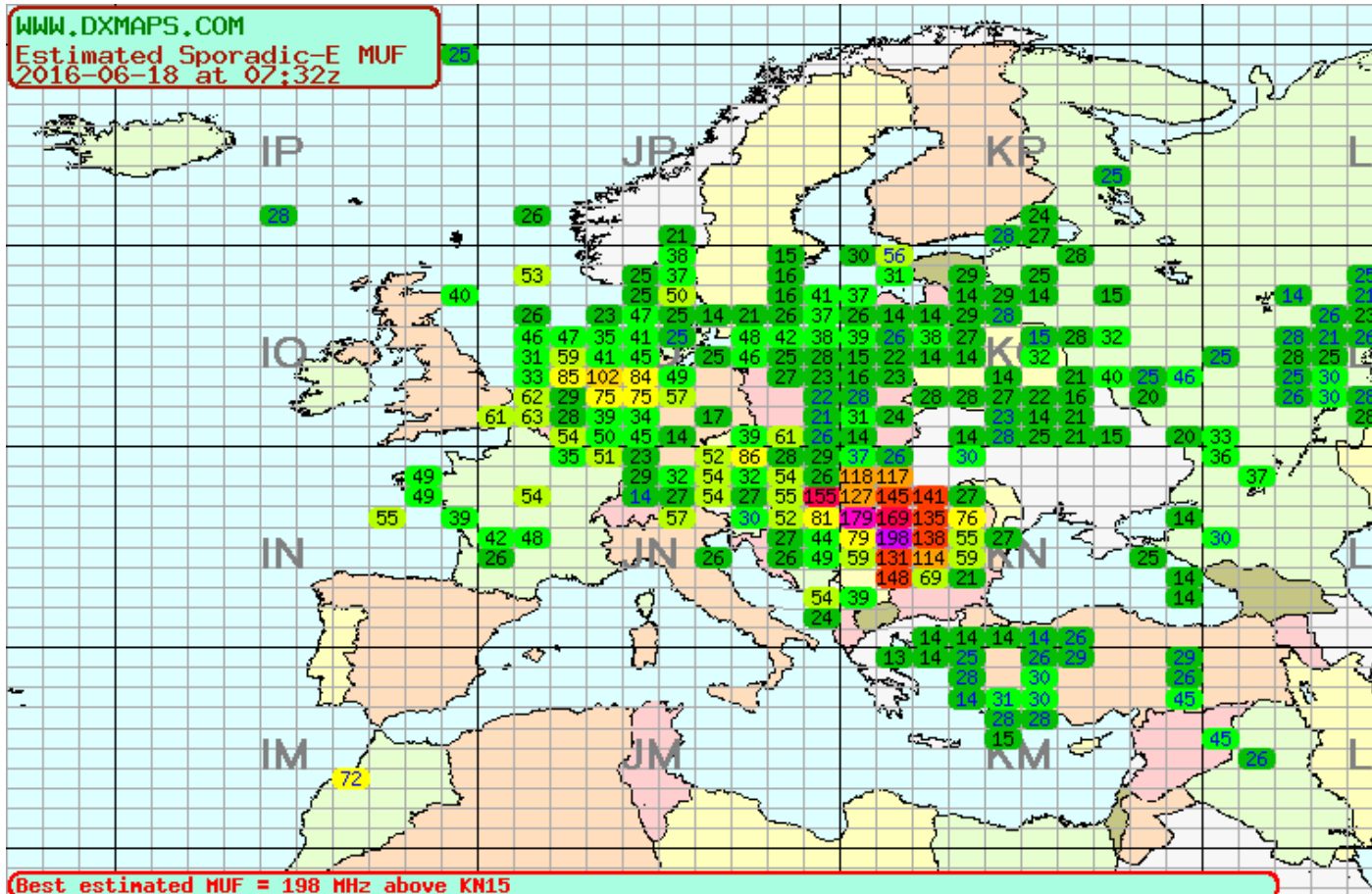


17-06-2016 08:51:53 UTC

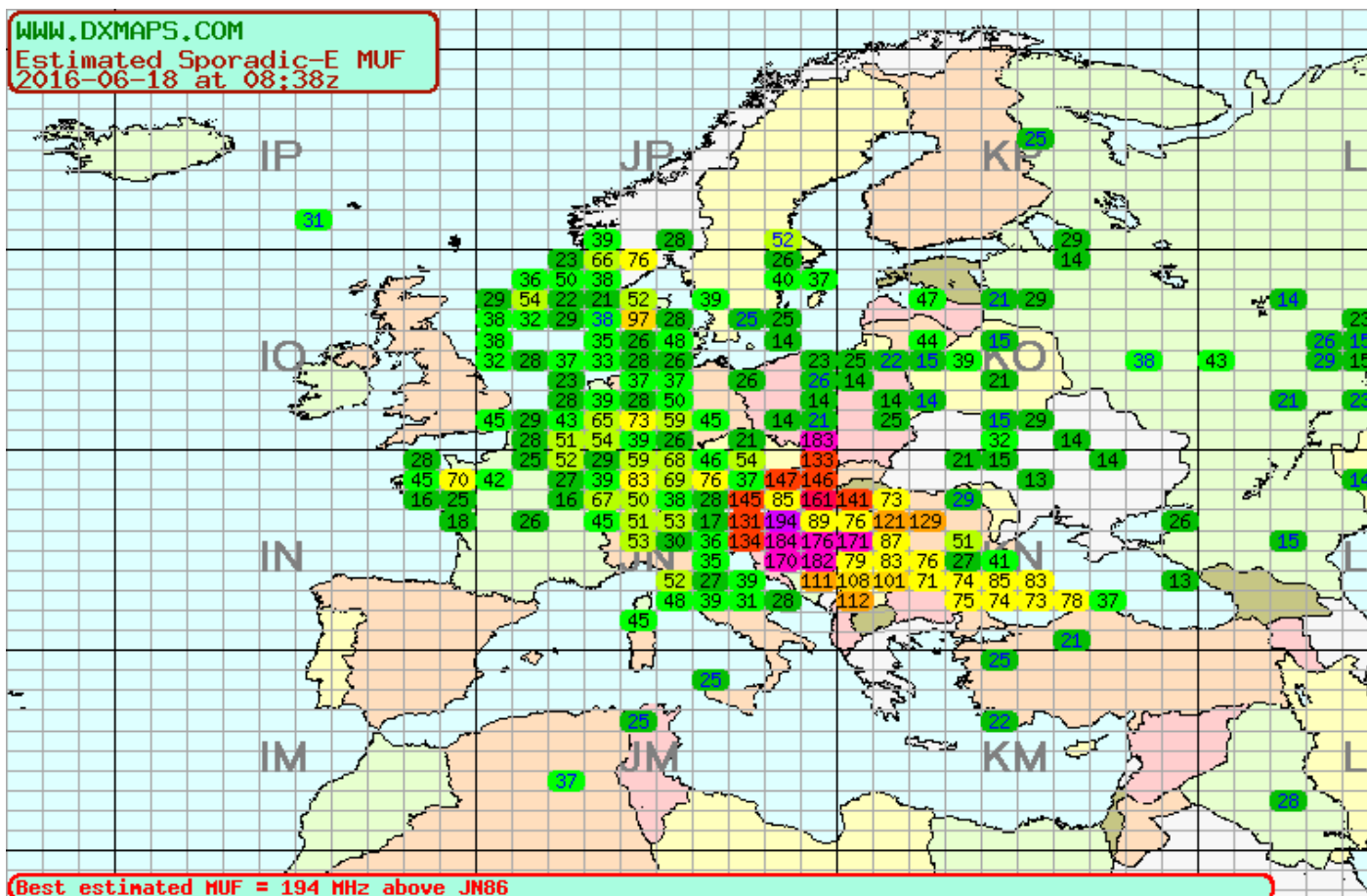
WWW.DXMAPS.COM

Estimated Sporadic-E MUF
2016-06-18 at 06:36z



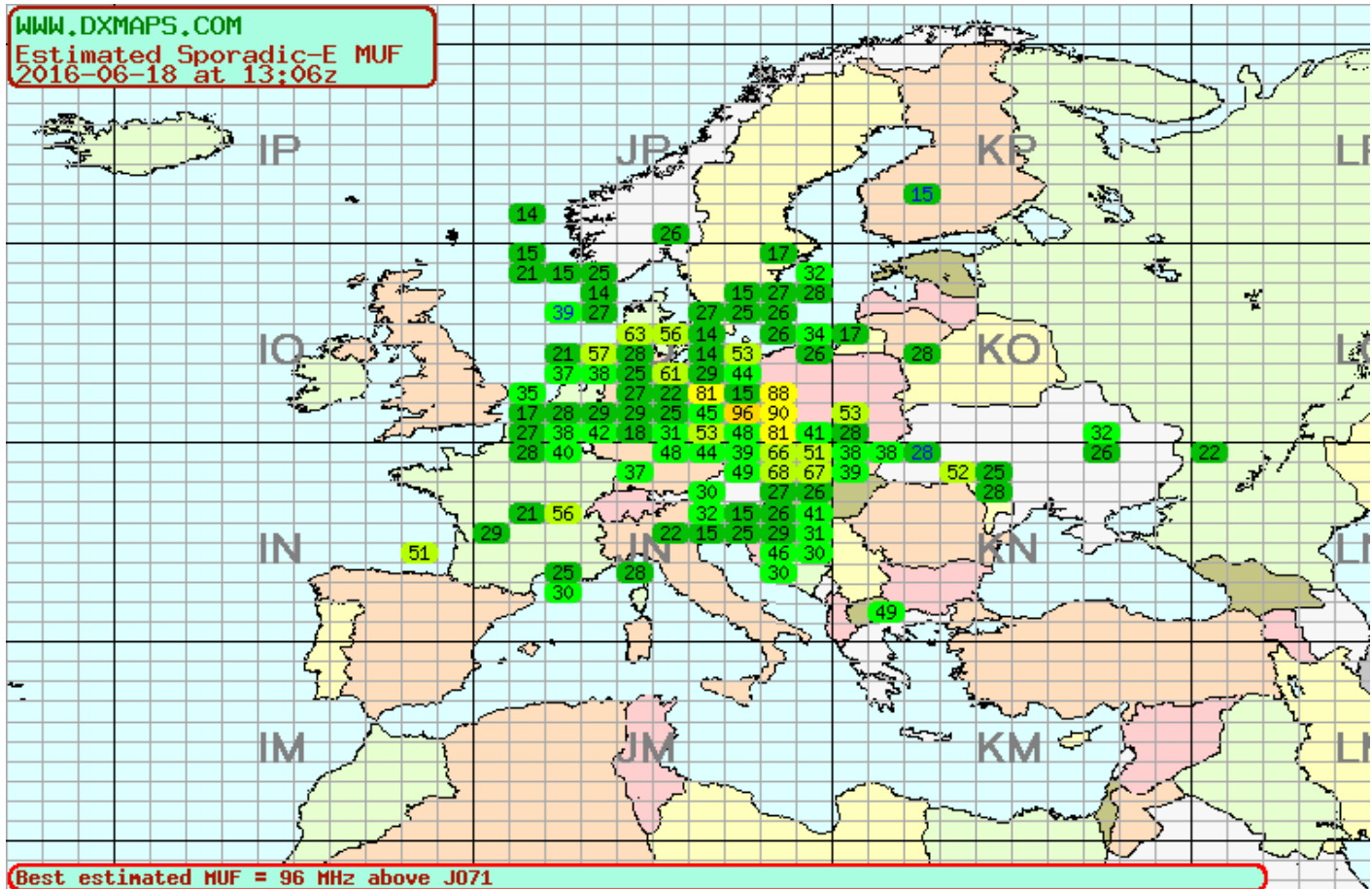


Estimated Sporadic-E MUF
2016-06-18 at 08:38z



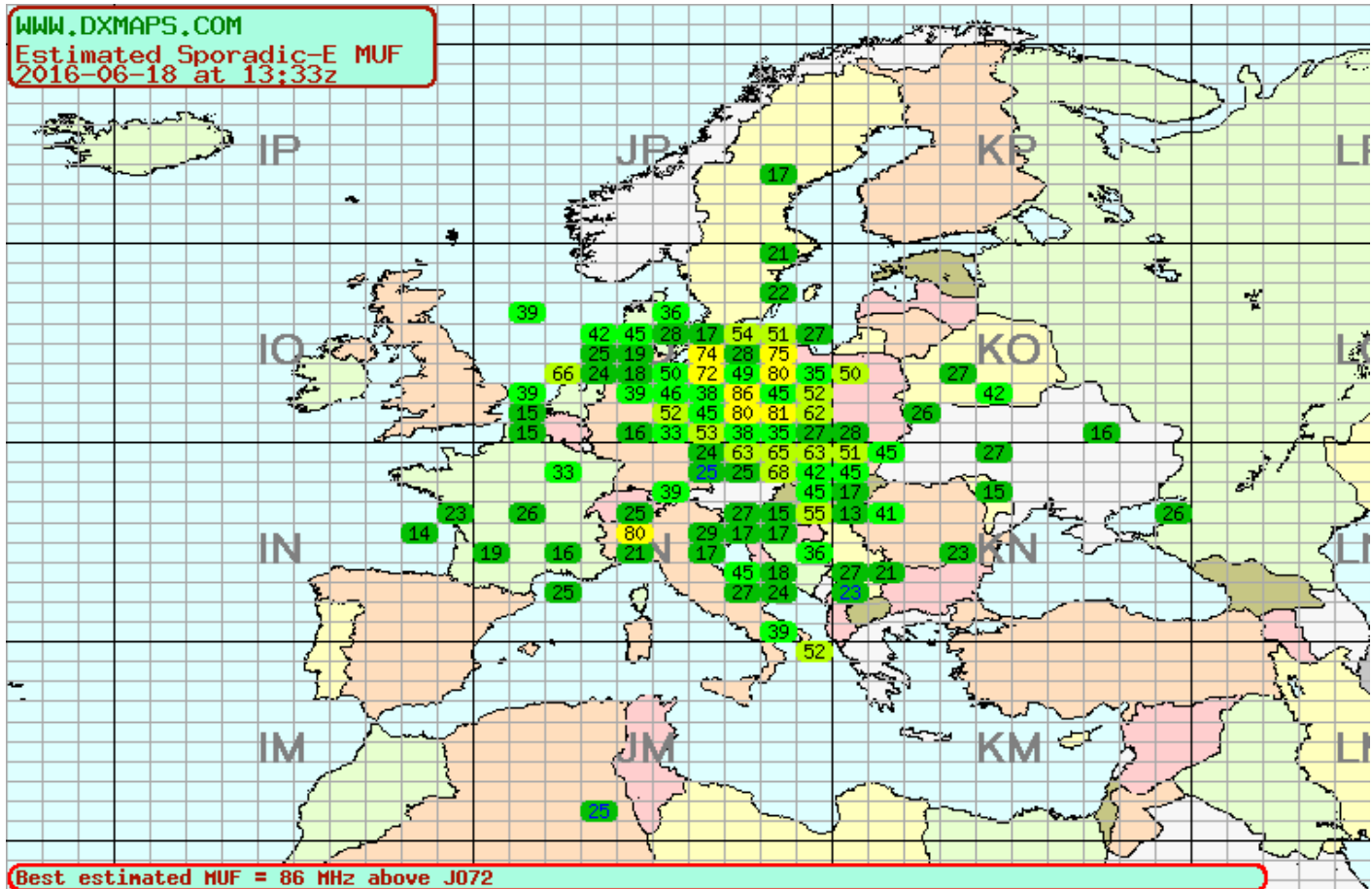
Best estimated MUF = 194 MHz above JN86

WWW.DXMAPS.COM
Estimated Sporadic-E MUF
2016-06-18 at 13:06z



Best estimated MUF = 96 MHz above J071

WWW.DXMAPS.COM
Estimated Sporadic-E MUF
2016-06-18 at 13:33z

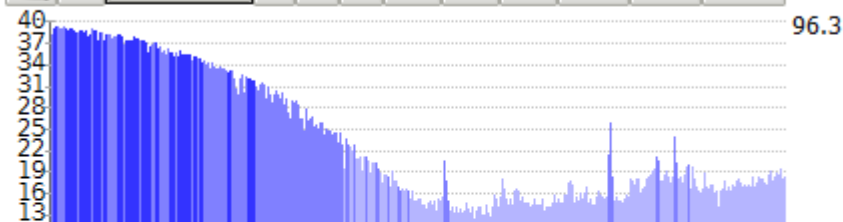


Best estimated MUF = 86 MHz above J072



FM 96.300 506F (R. PANDA)

Q + | R 5 9 10 30 50 100 200 300 AF:

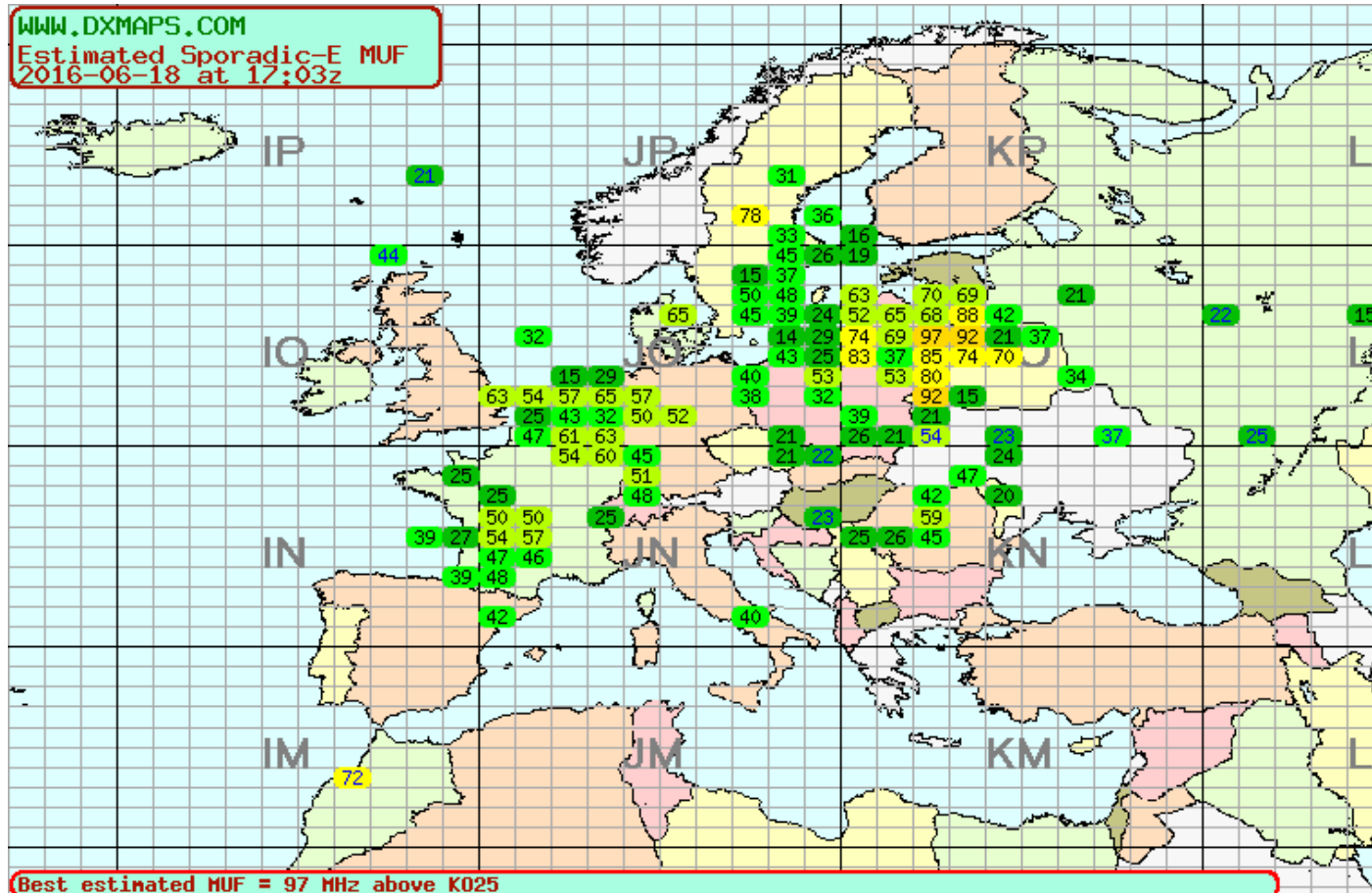


ST RDS TP TA MS Varied 40↑ 19 dBf

AGC threshold: highest ☒ RF+

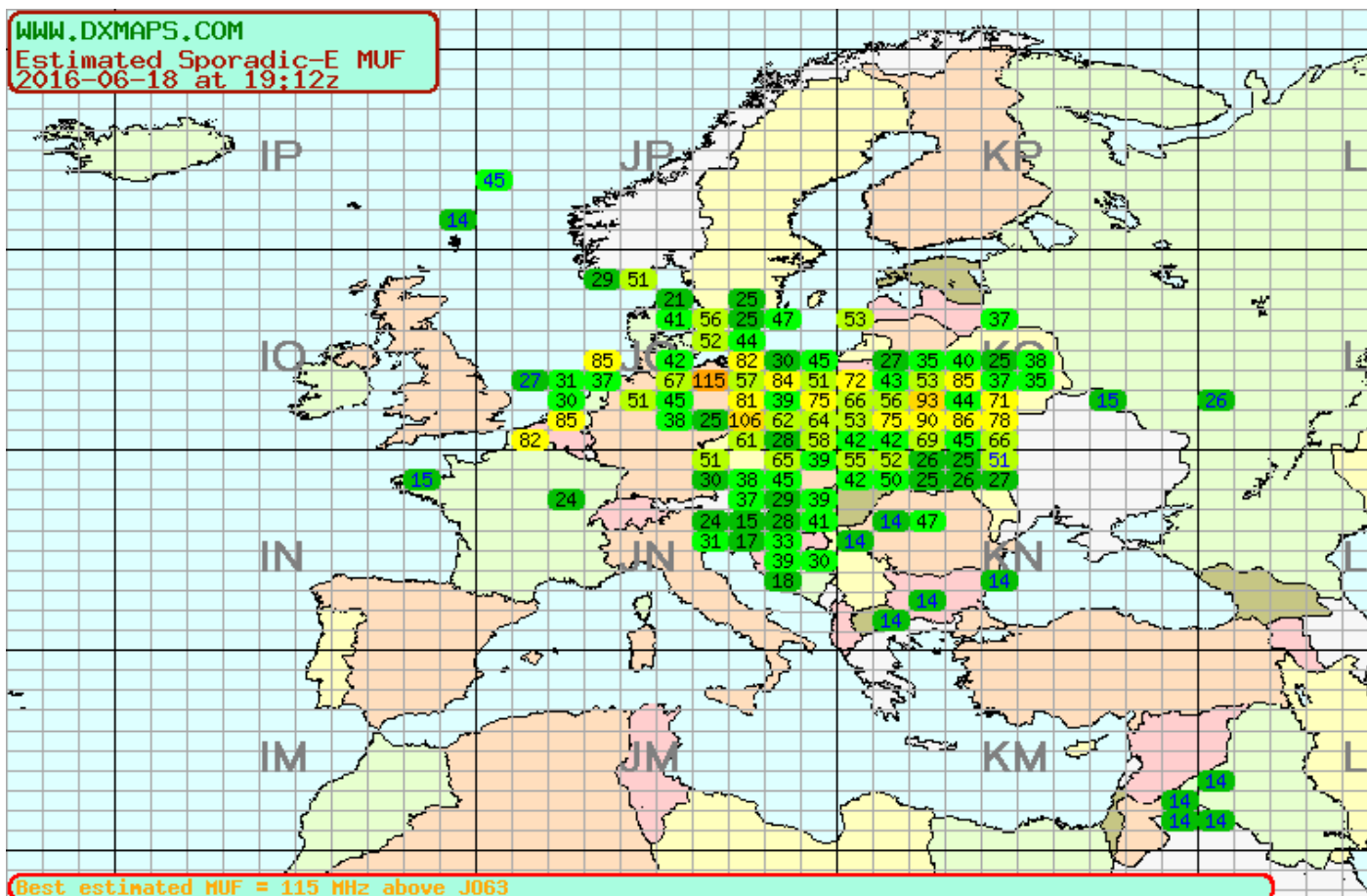
50 us Ant A BW: auto ☐ IF+

18-06-2016 13:31:29 UTC



WWW.DXMAPS.COM

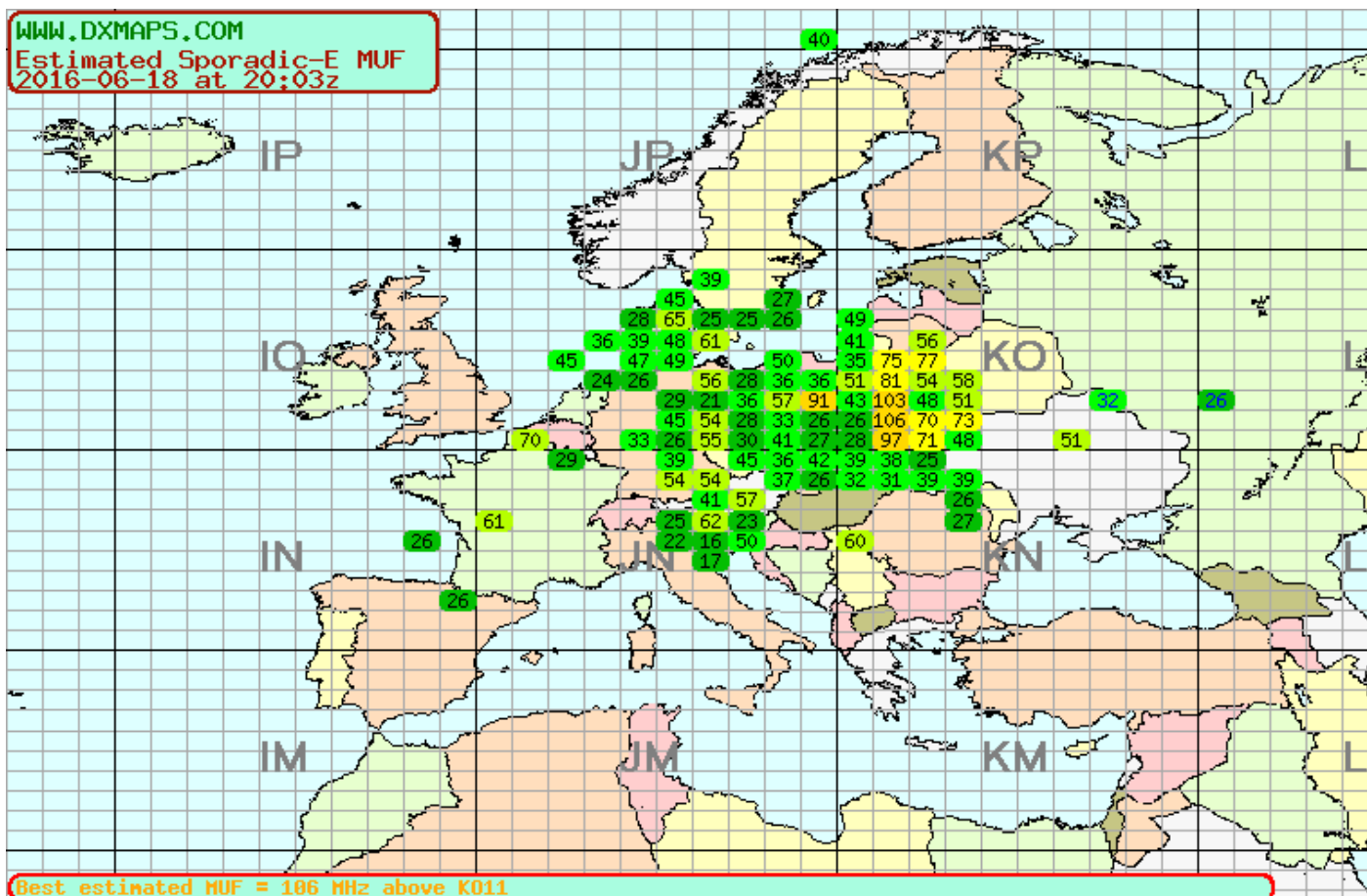
Estimated Sporadic-E MUF
2016-06-18 at 19:12z



Best estimated MUF = 115 MHz above J063

WWW.DXMAPS.COM

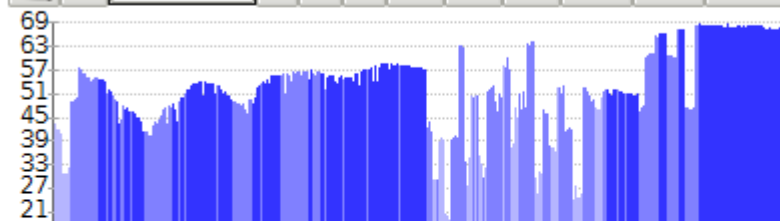
Estimated Sporadic-E MUF
2016-06-18 at 20:03z





FM 92.700 E067 (TANANANA)

Q ⇄ [] R 5 9 10 30 50 100 200 300 AF:



ST RDS TP TA MS None 69↑ 68 dBf

[Icons: Speaker, Antenna, Mixer, Tuner, AGC, Preset] AGC threshold: highest ▾ ☒ RF+

50 us ▾ Ant A ▾ [Icons: Refresh, Repeat] BW: auto ▾ ☒ IF+

[TANANANA - 92,7 FM -

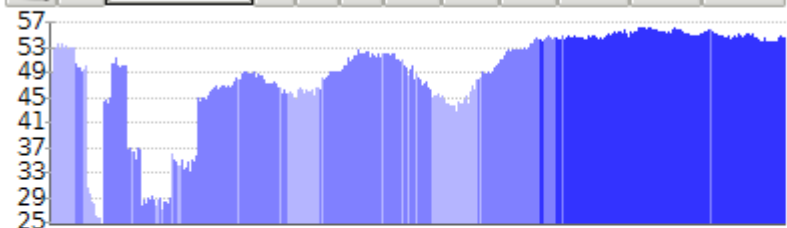
]

18-06-2016 19:22:11 UTC



FM 96.200 E048 (ACCENT)

Q [] R 5 9 10 30 50 100 200 300 AF:



ST RDS TP TA MS Pop M 57↑ 55 dBf

[Speaker] [RDS] [TP] [TA] [MS] [Pop] [M] AGC threshold: highest [v] RF+

50 us [v] Ant A [v] [Refresh] [Refresh] BW: auto [v] IF+

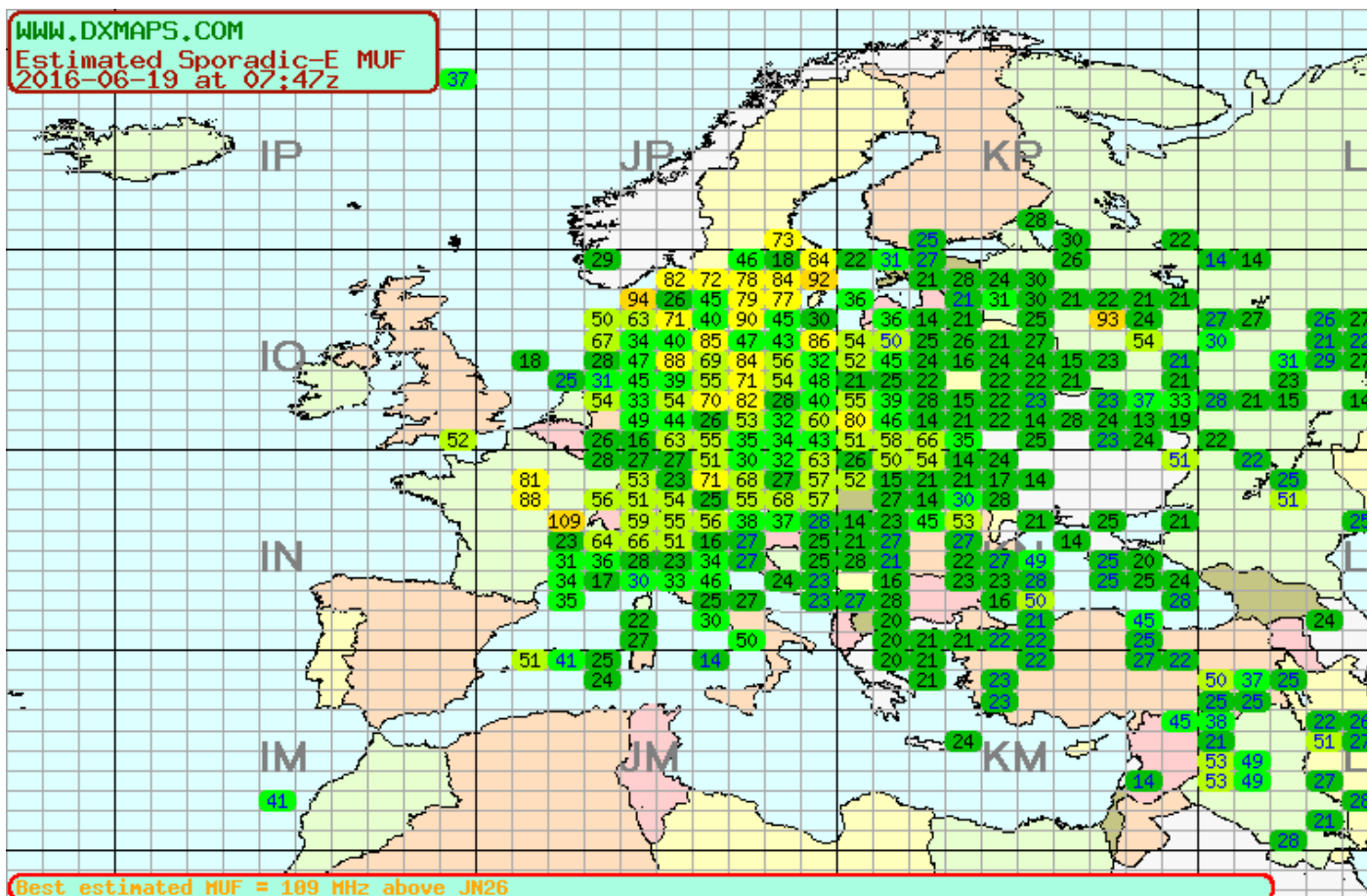
[RADIO ACCENT - 96,2FM - NOVACI

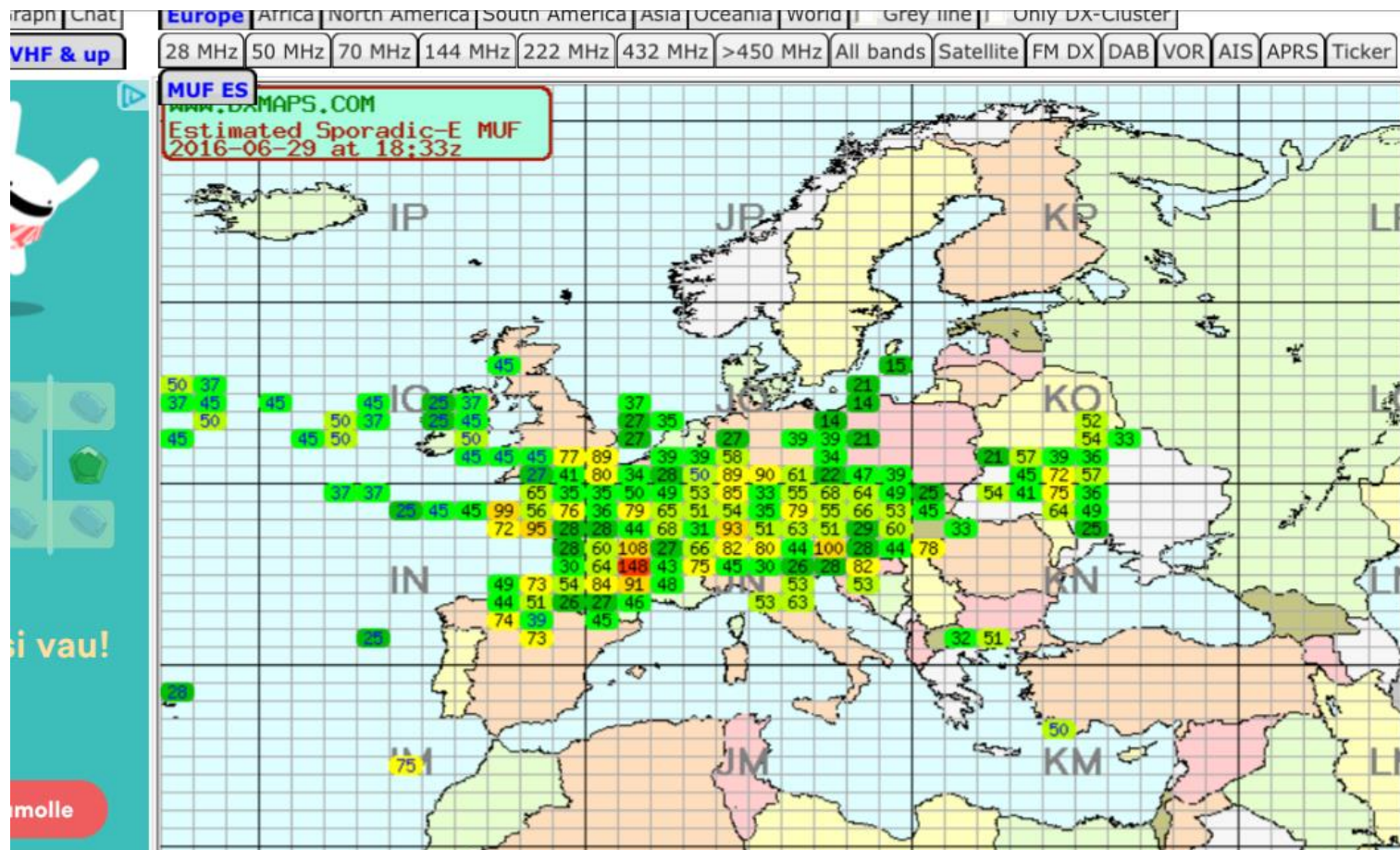
[RADI ACCENT

18-06-2016 19:35:18 UTC

WWW.DXMAPS.COM

Estimated Sporadic-E MUF
2016-06-19 at 07:47z





MUF ES

Estimated Sporadic-E MUF
2016-06-30 at 07:29z



dxmaps.com



Map List Graph Chat

Europe Africa North America South America Asia Oceania World ☐ Grey line ☐ Only DX-Cluster

LF - HF VHF & up

28 MHz 50 MHz 70 MHz 144 MHz 222 MHz 432 MHz >450 MHz All bands Satellite FM DX DAB VOR AIS APRS Ticker

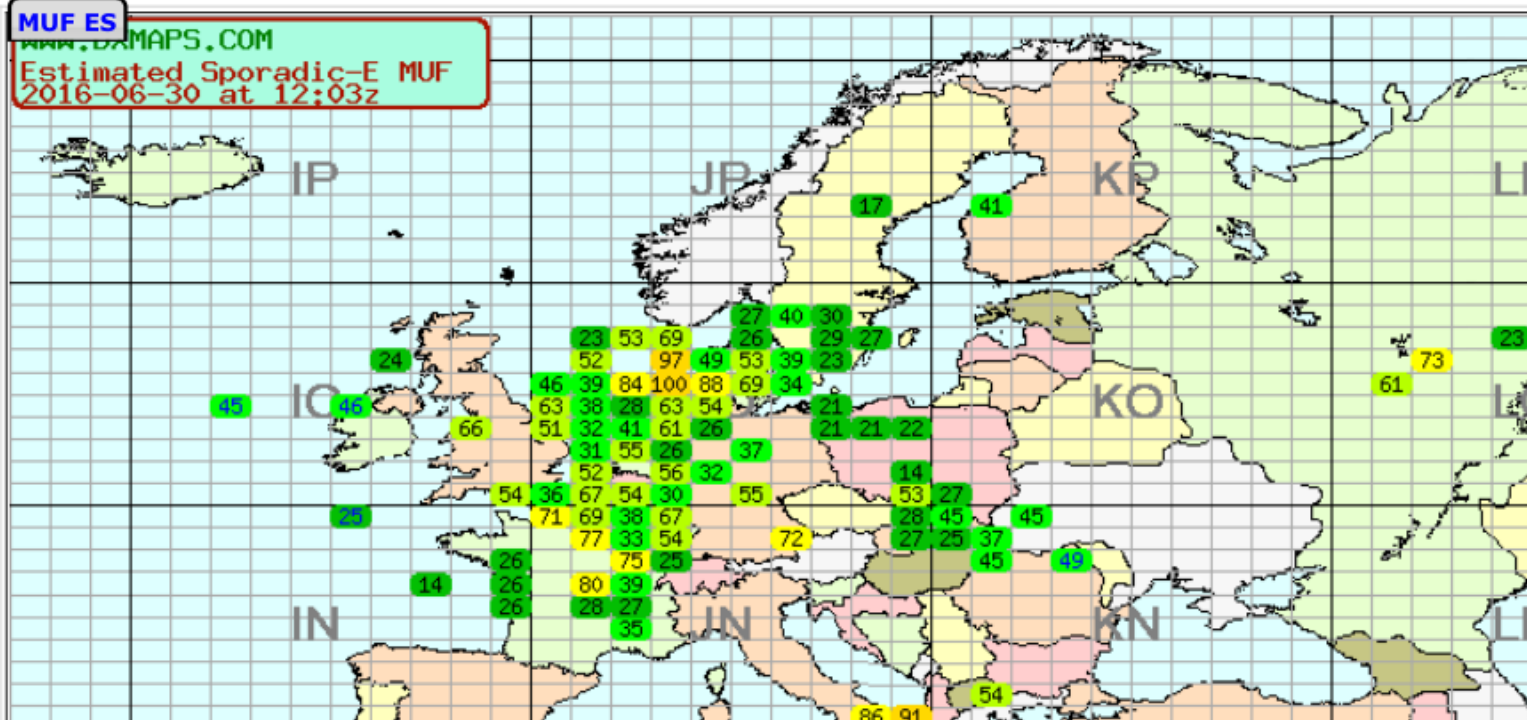


MUF ES

WWW.DXMAPS.COM

Estimated Sporadic-E MUF
2016-06-30 at 12:03z

Alandian
venevakuutus »



Jim's Finest Hour



92.3 G: Forest FM, Verwood



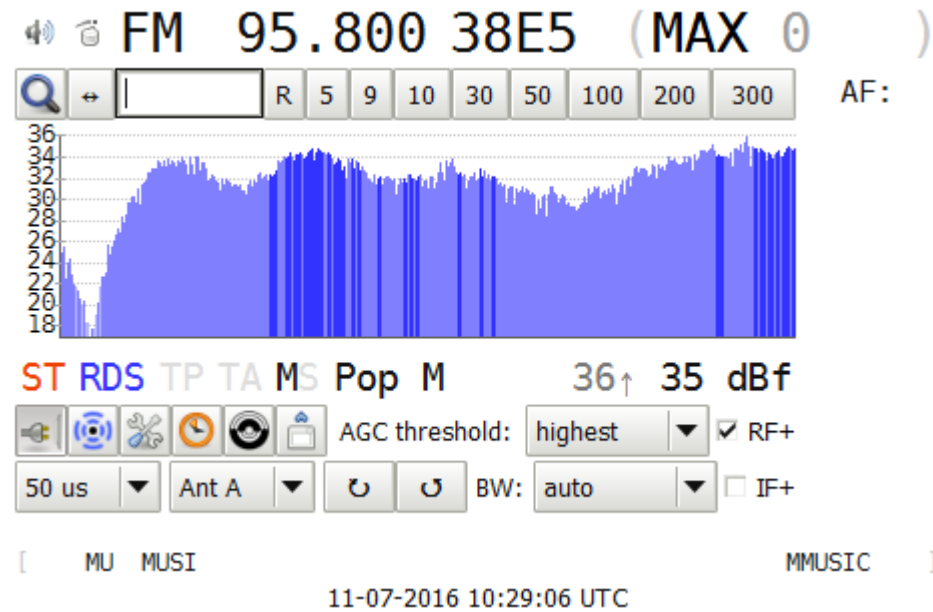
90.1 G: Hope FM,
Bournemouth

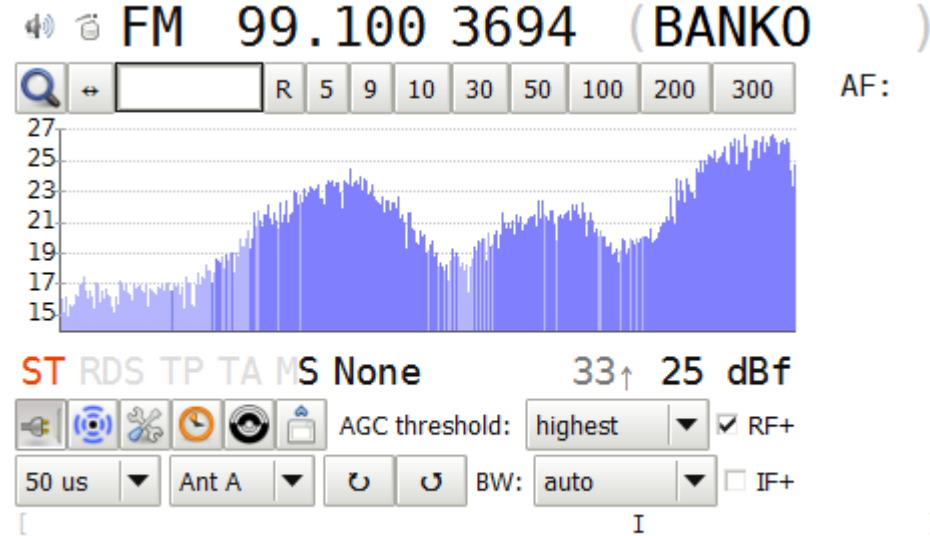


July...



Ankara!





11-07-2016 10:49:06 UTC

Middle East Treasures Heard by JJK

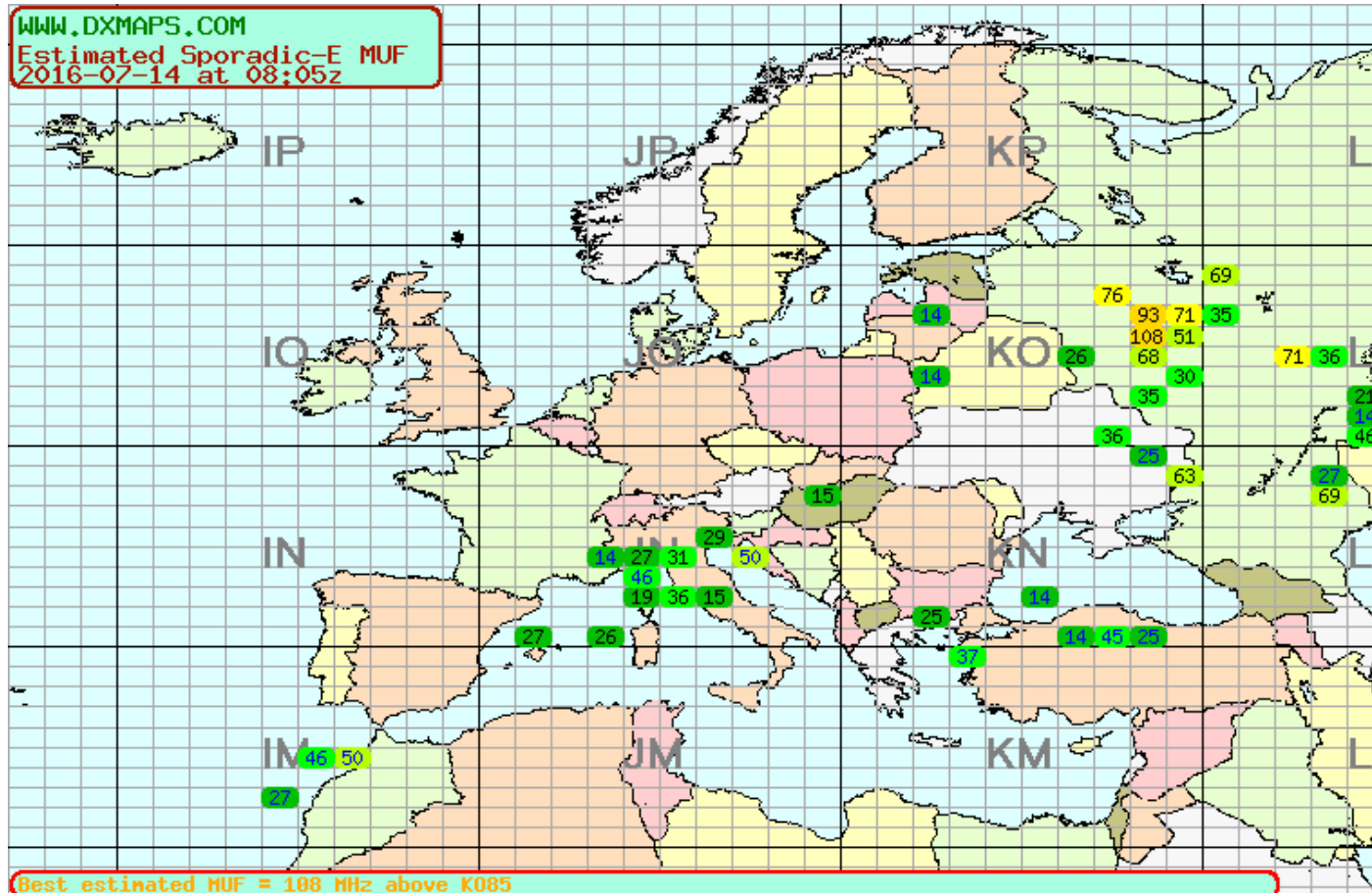


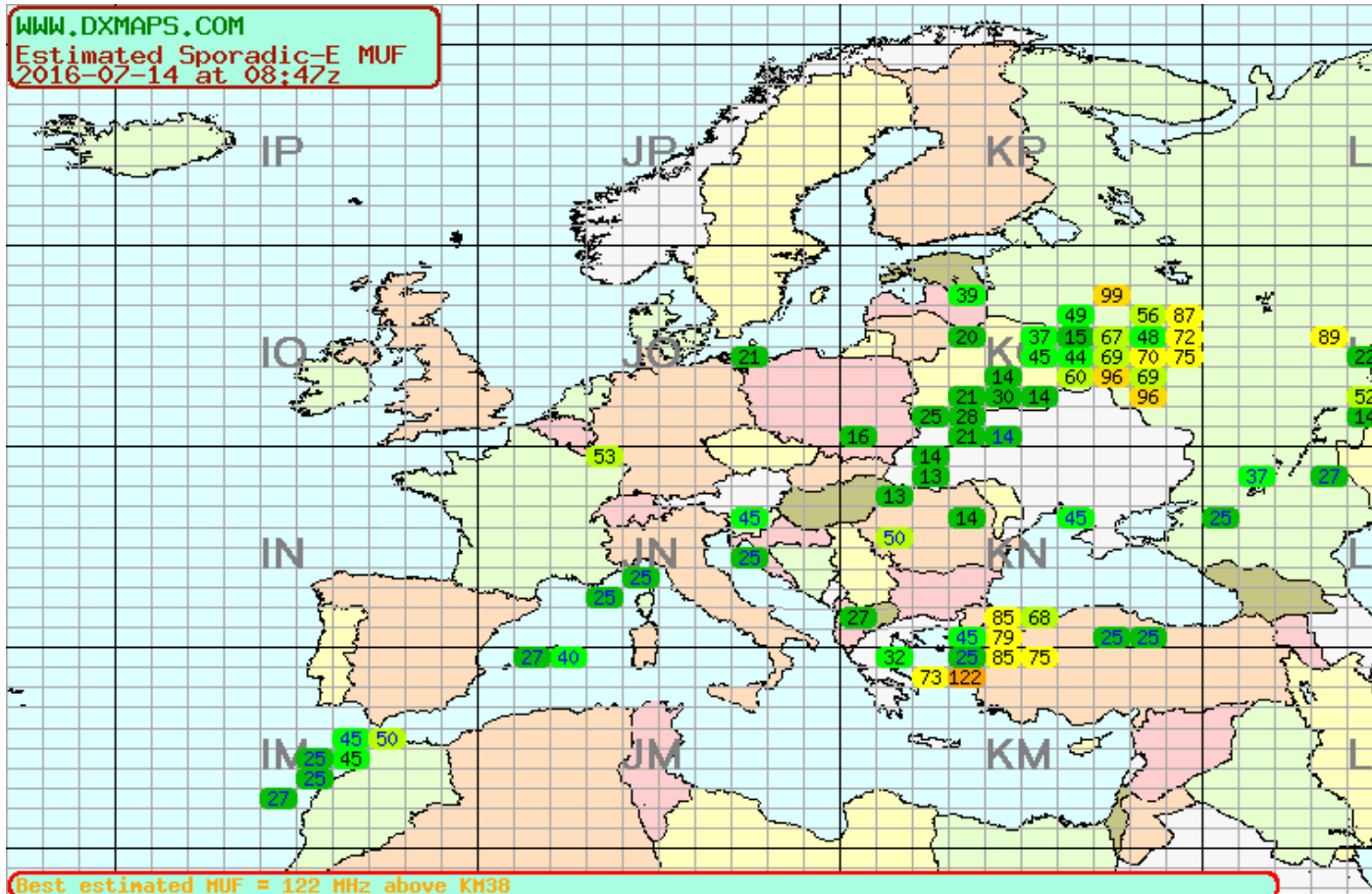
93.0 SYR: Afrin FM (10.7)

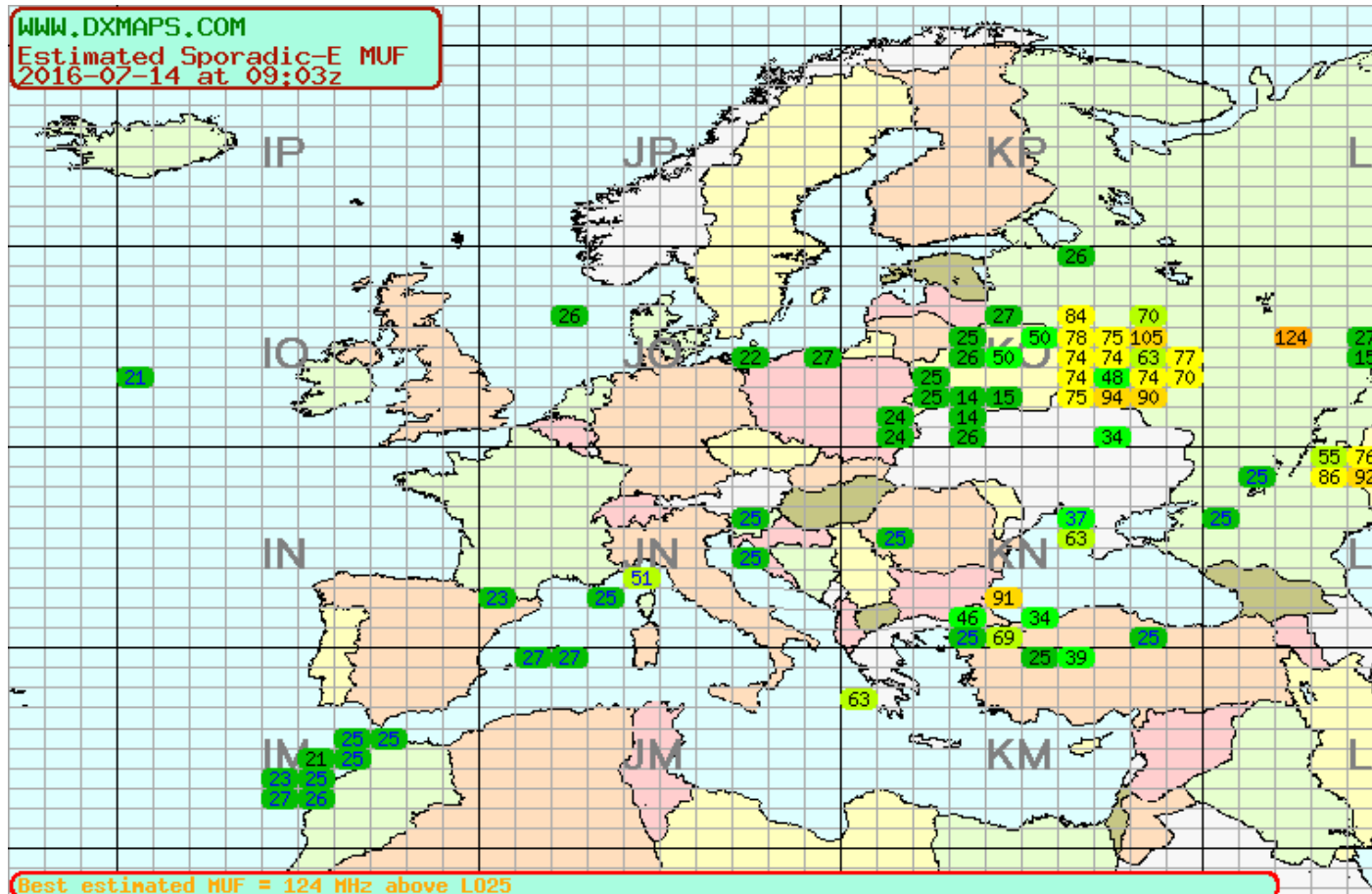


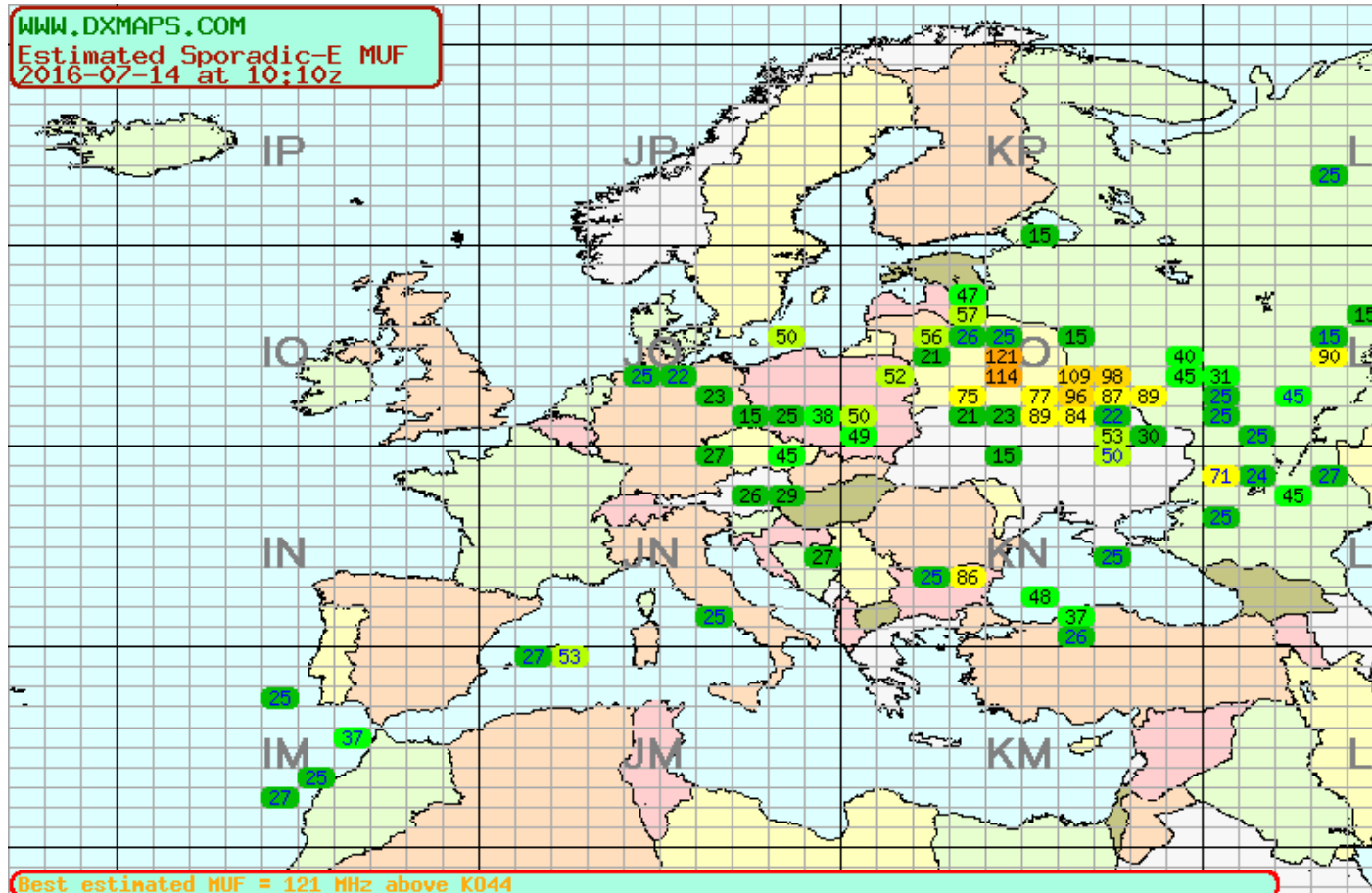
92.2 IRQ: Radio Republic (14.7)

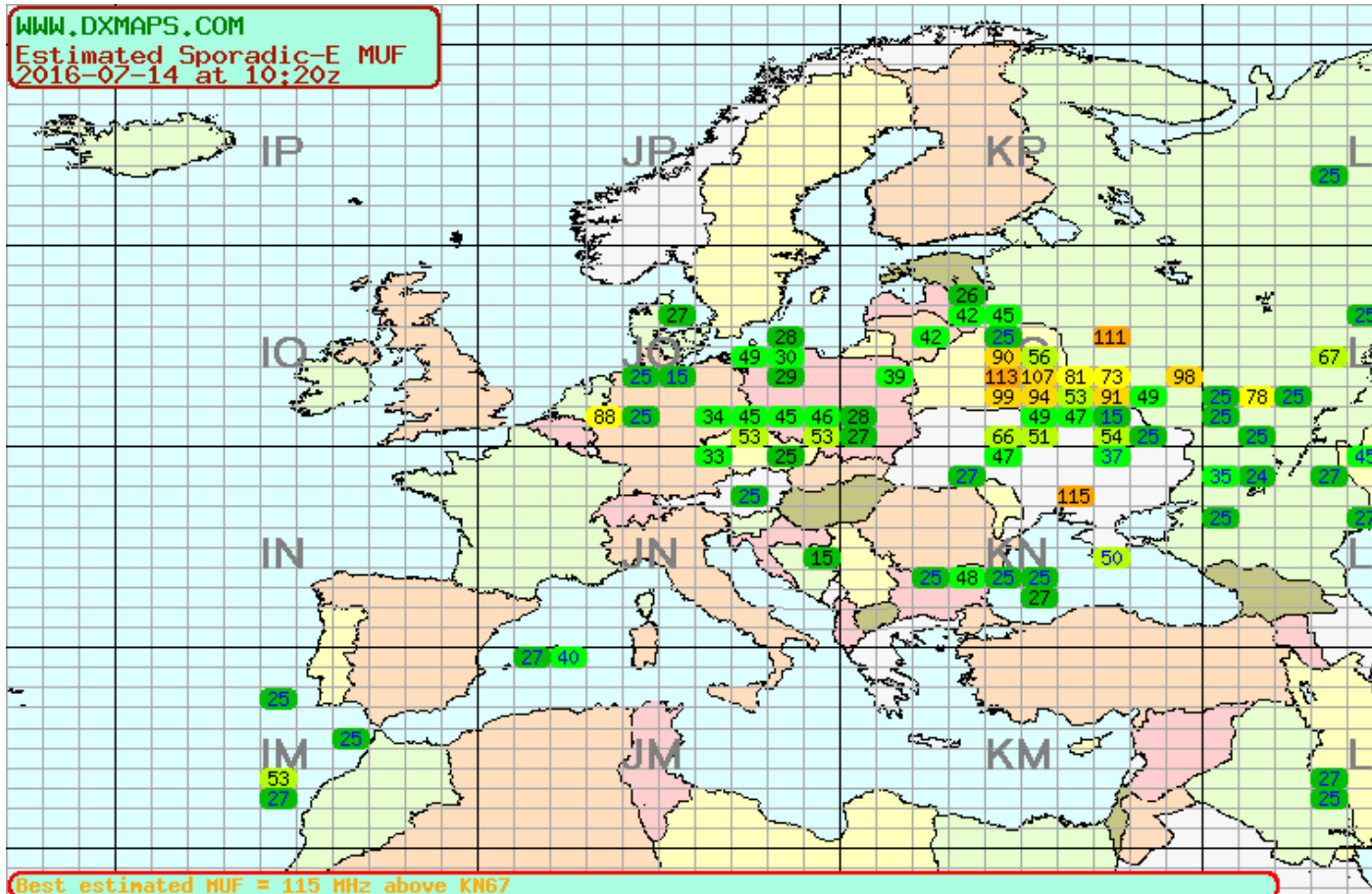


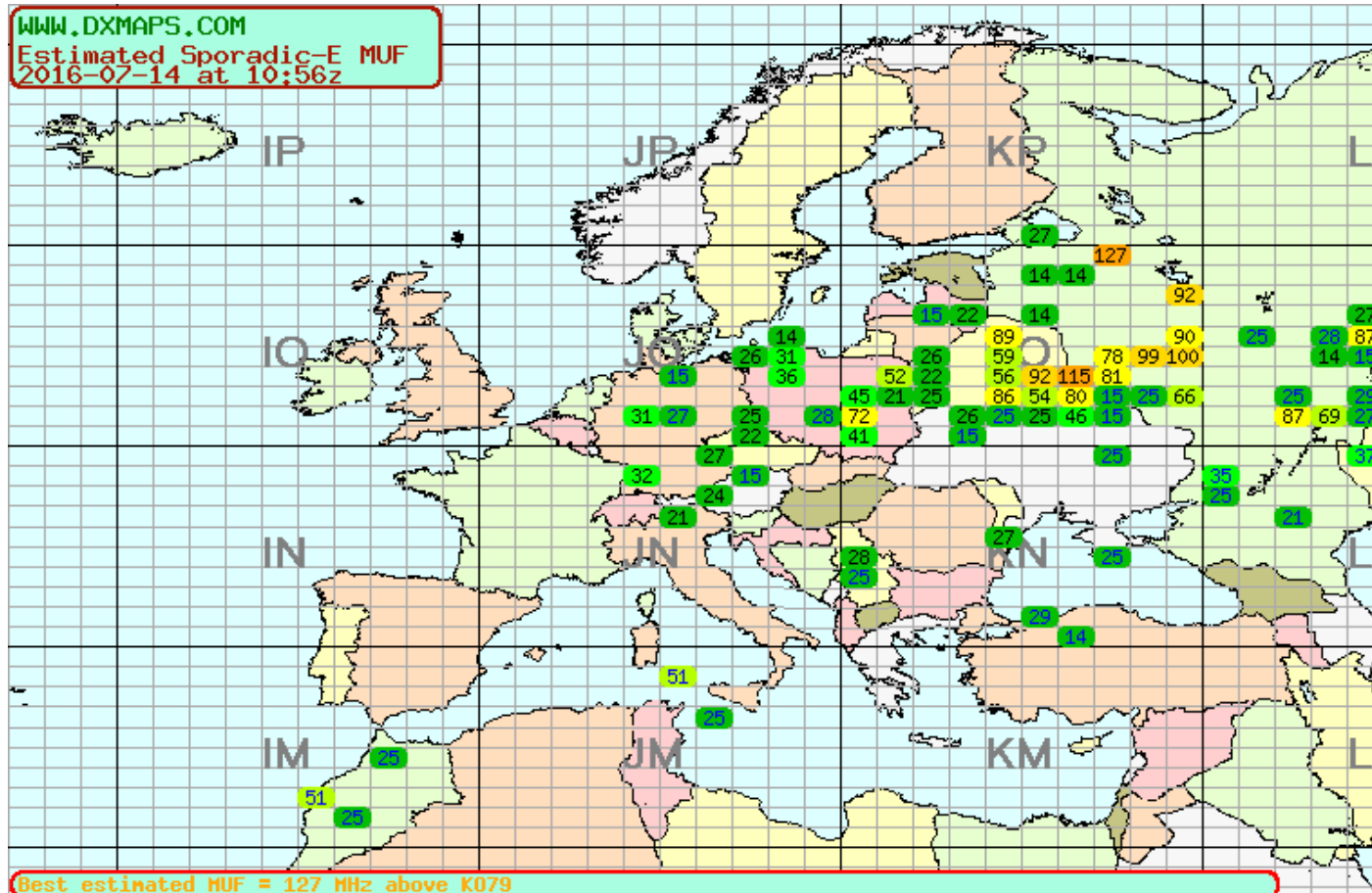






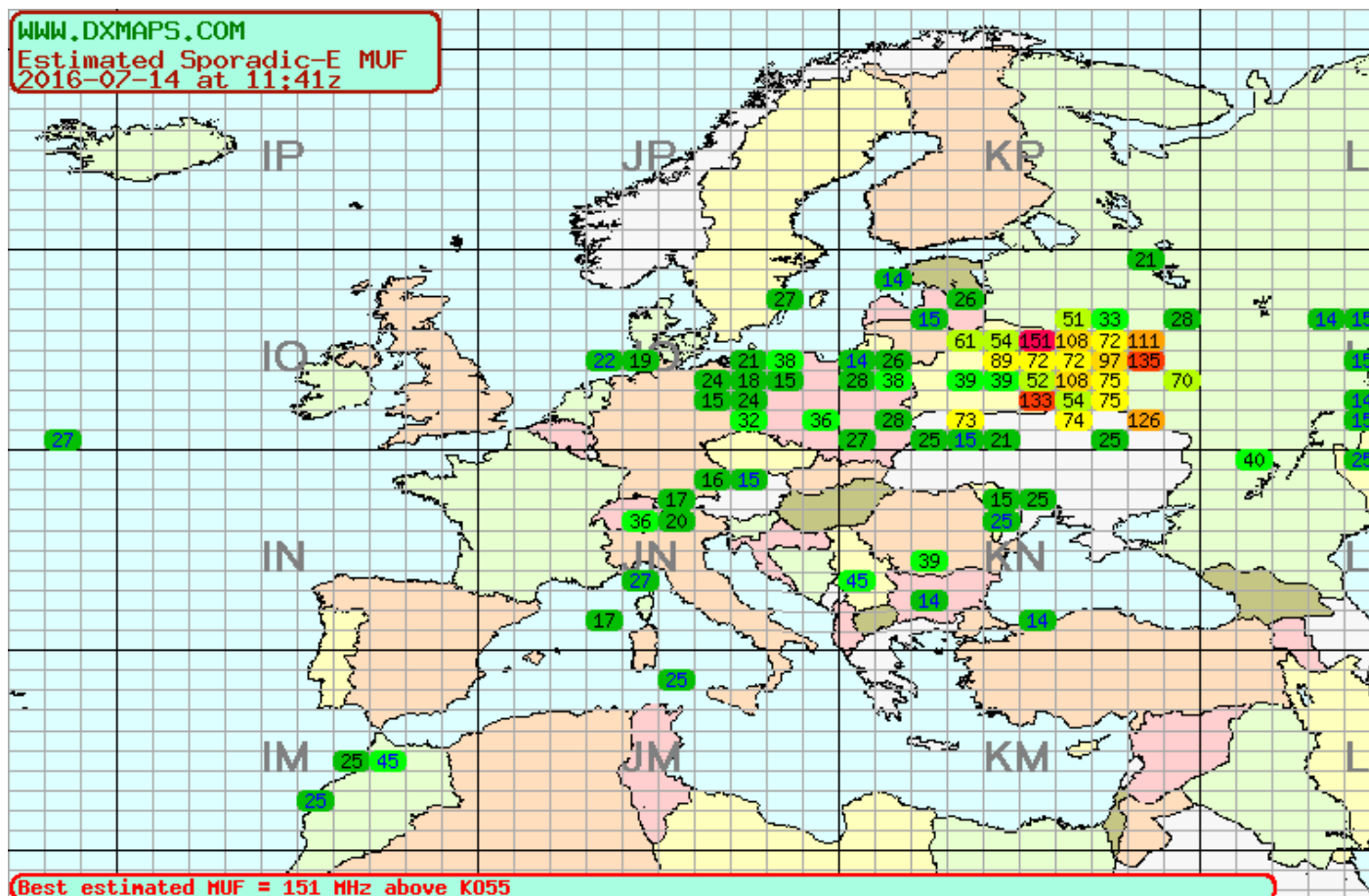




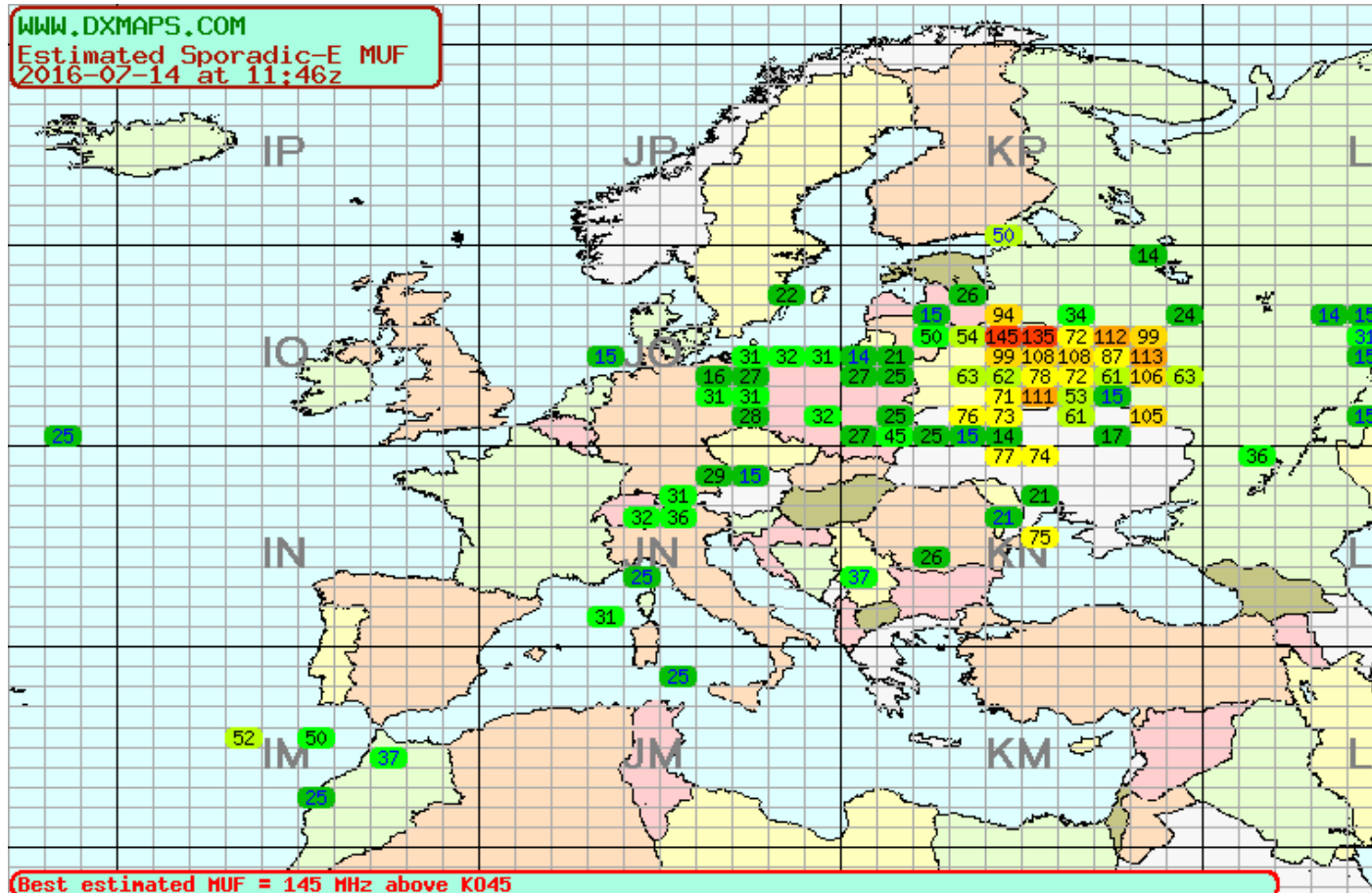


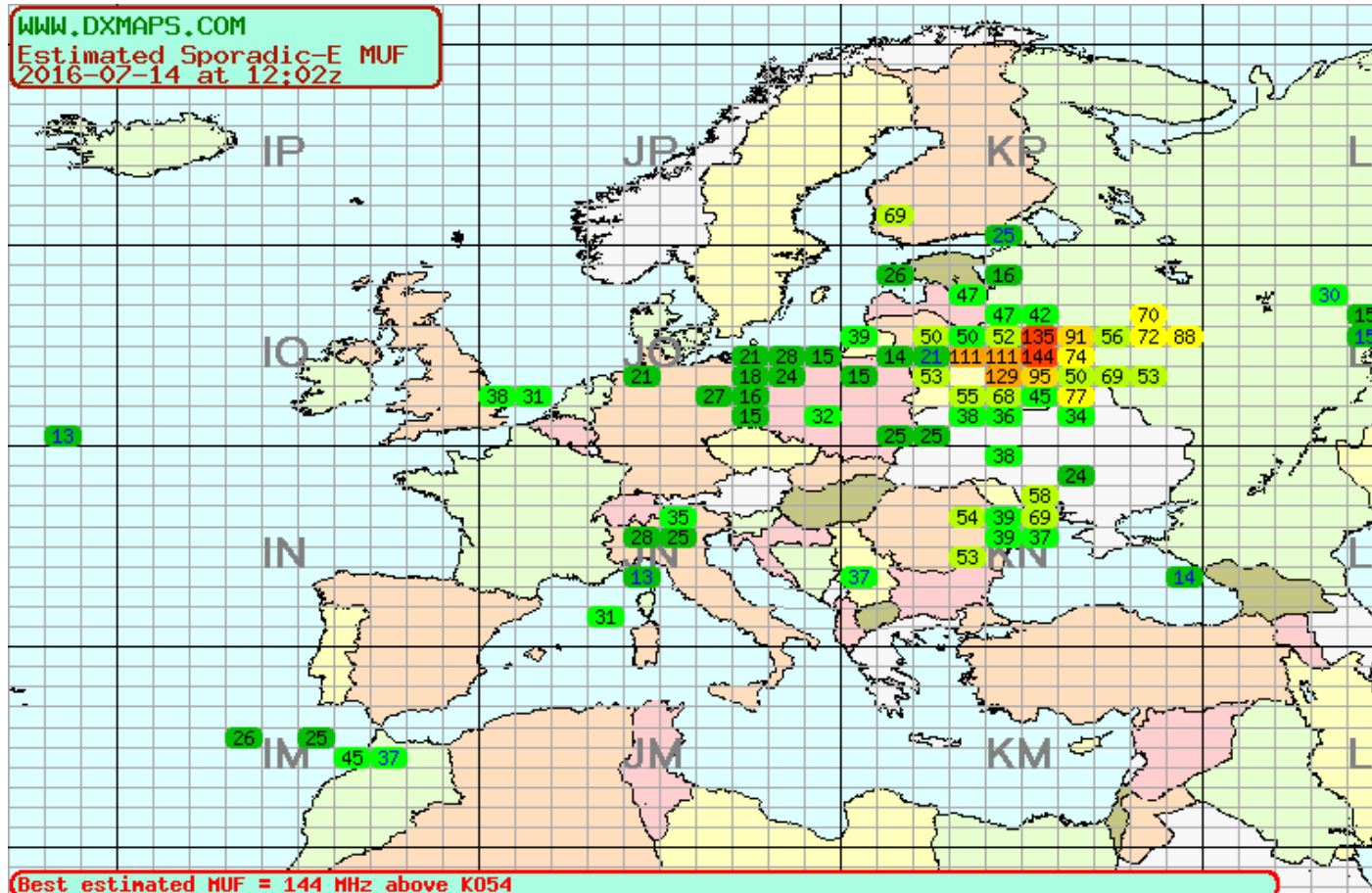
WWW.DXMAPS.COM

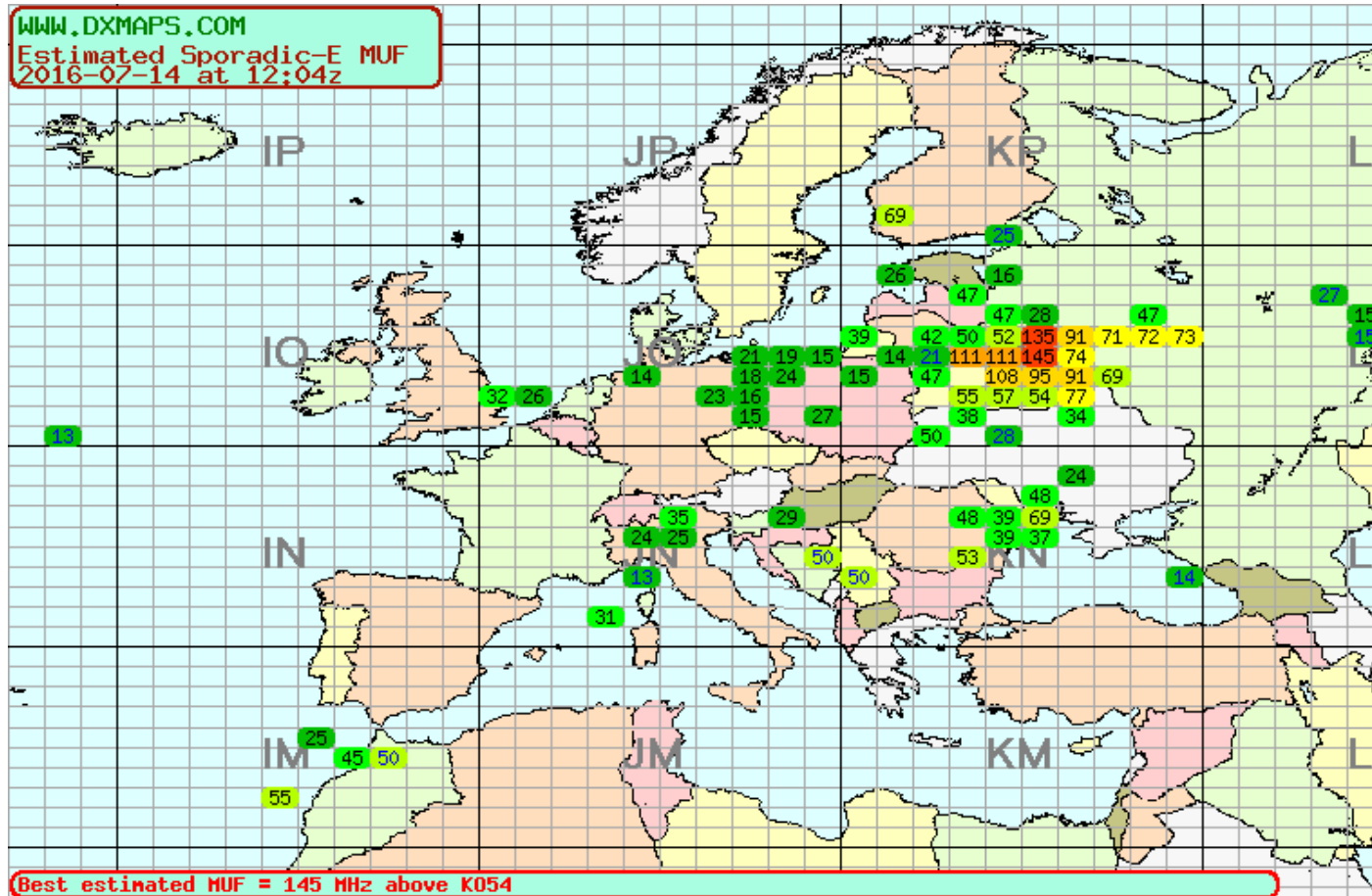
Estimated Sporadic-E MUF
2016-07-14 at 11:41z



Best estimated MUF = 151 MHz above K055





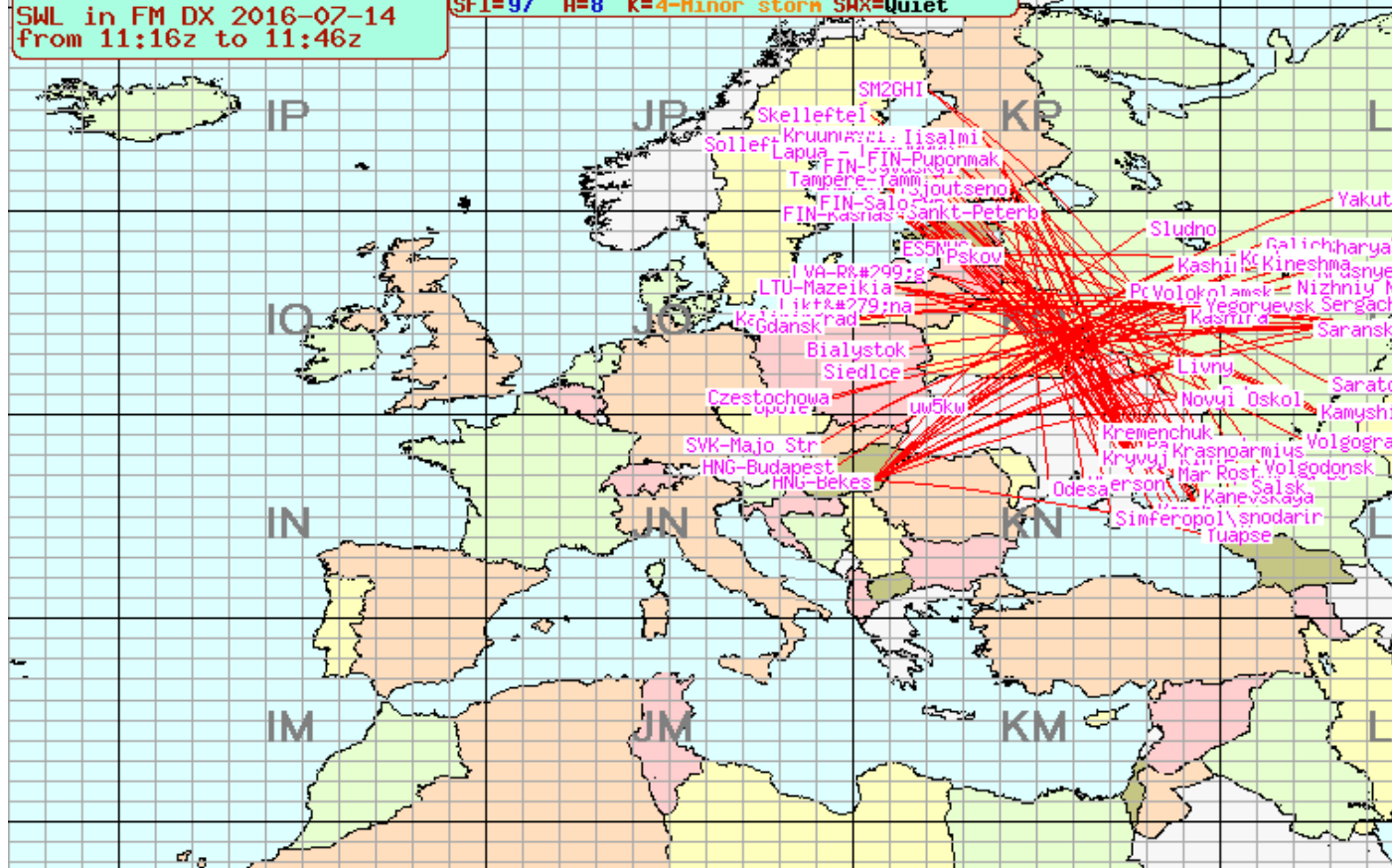


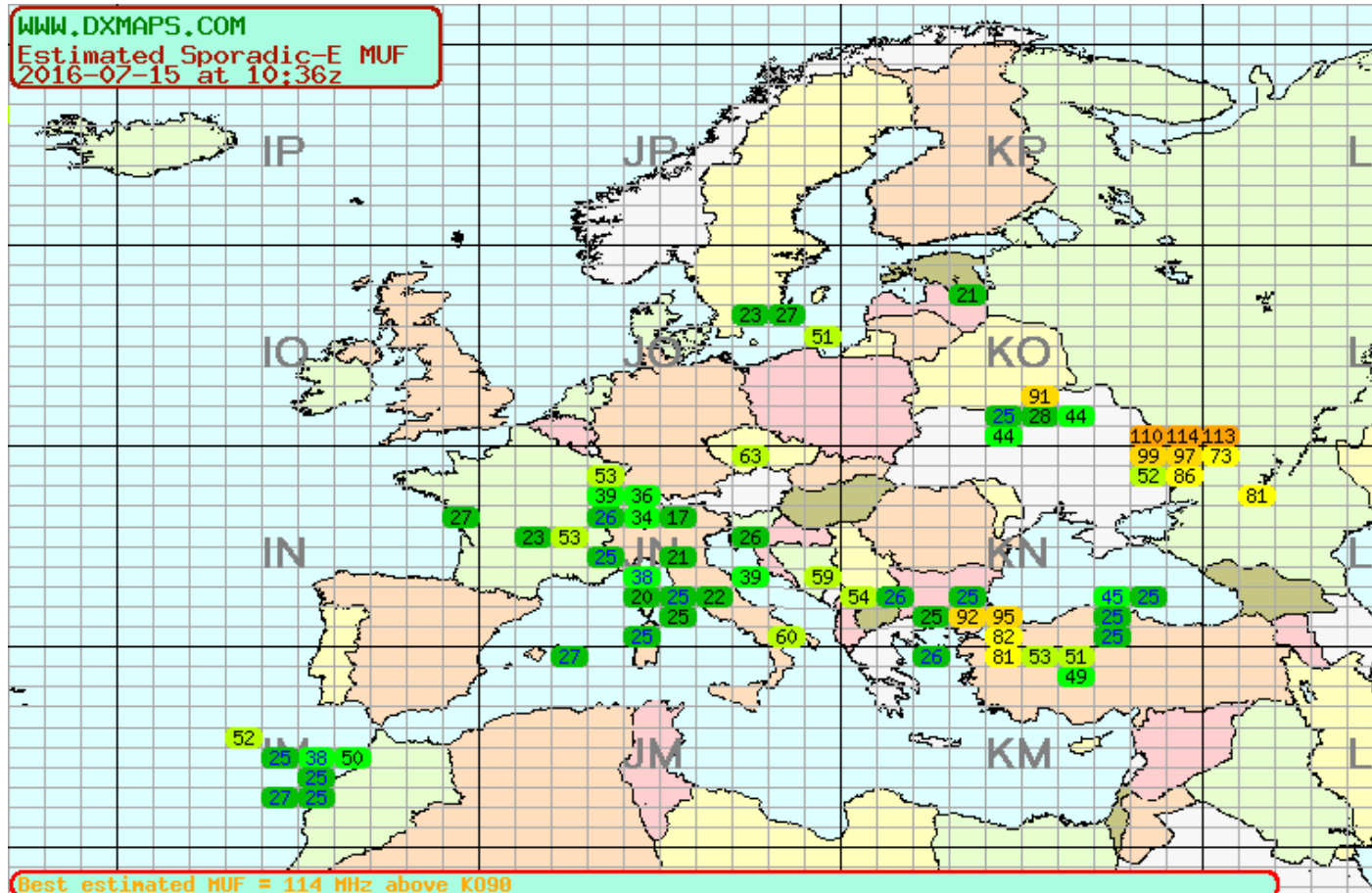
WWW.DXMAPS.COM

SWL in FM DX 2016-07-14
from 11:16z to 11:46z

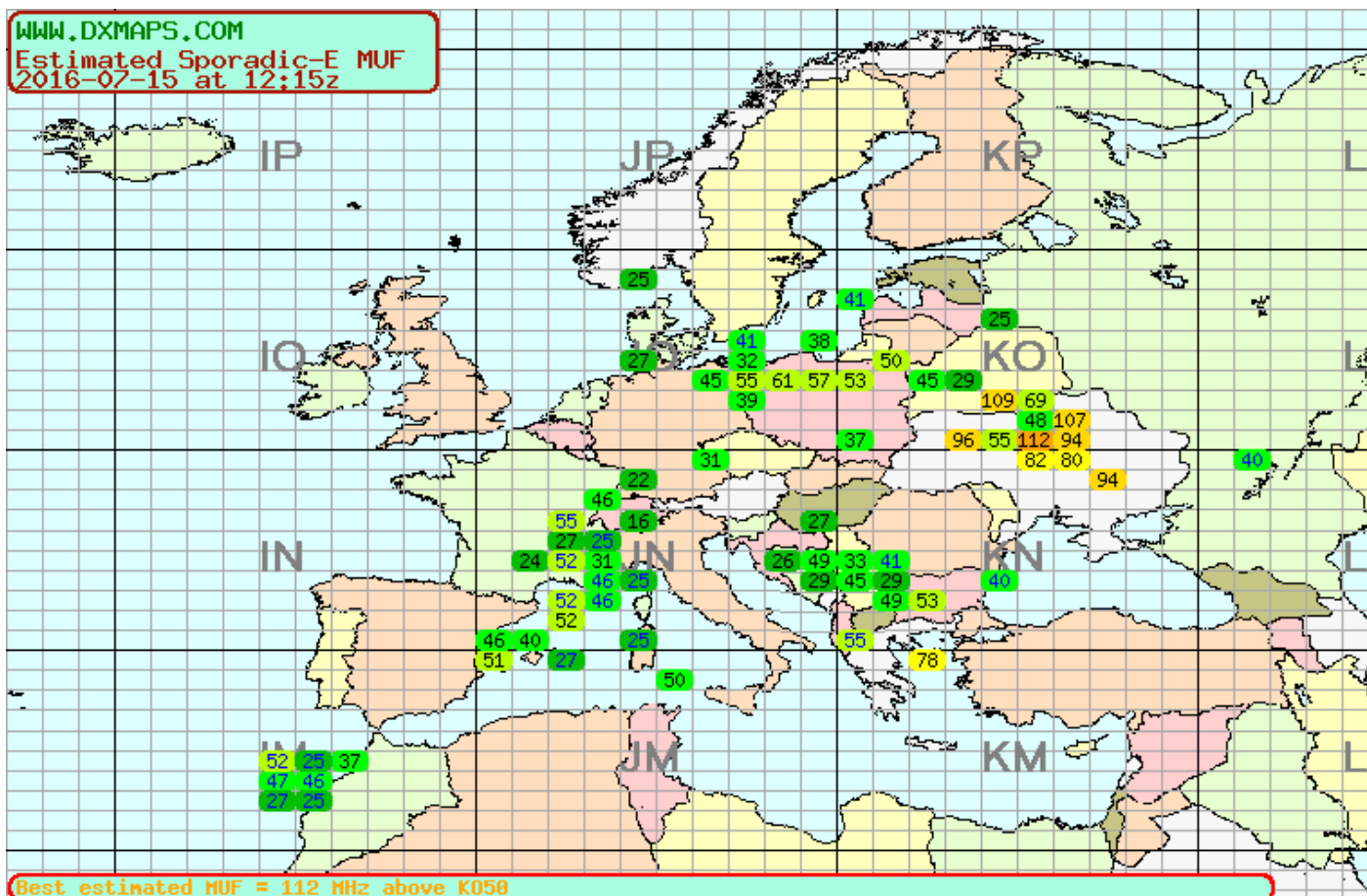
WWV info 2016-07-14 09:00z

SFI=97 A=8 K=4-Minor storm SMX=Quiet

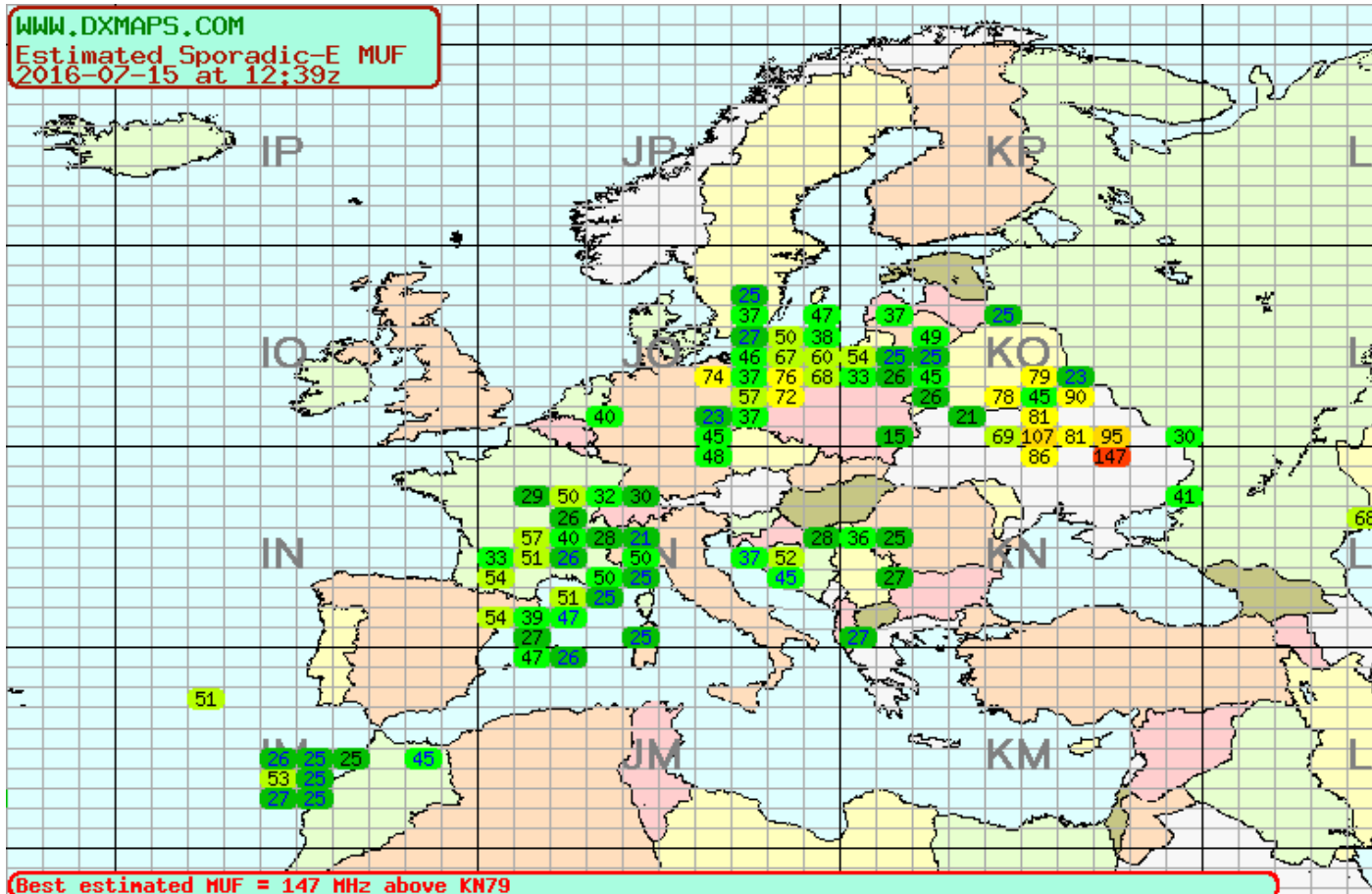




Estimated Sporadic-E MUF
2016-07-15 at 12:15z



Best estimated MUF = 112 MHz above K050

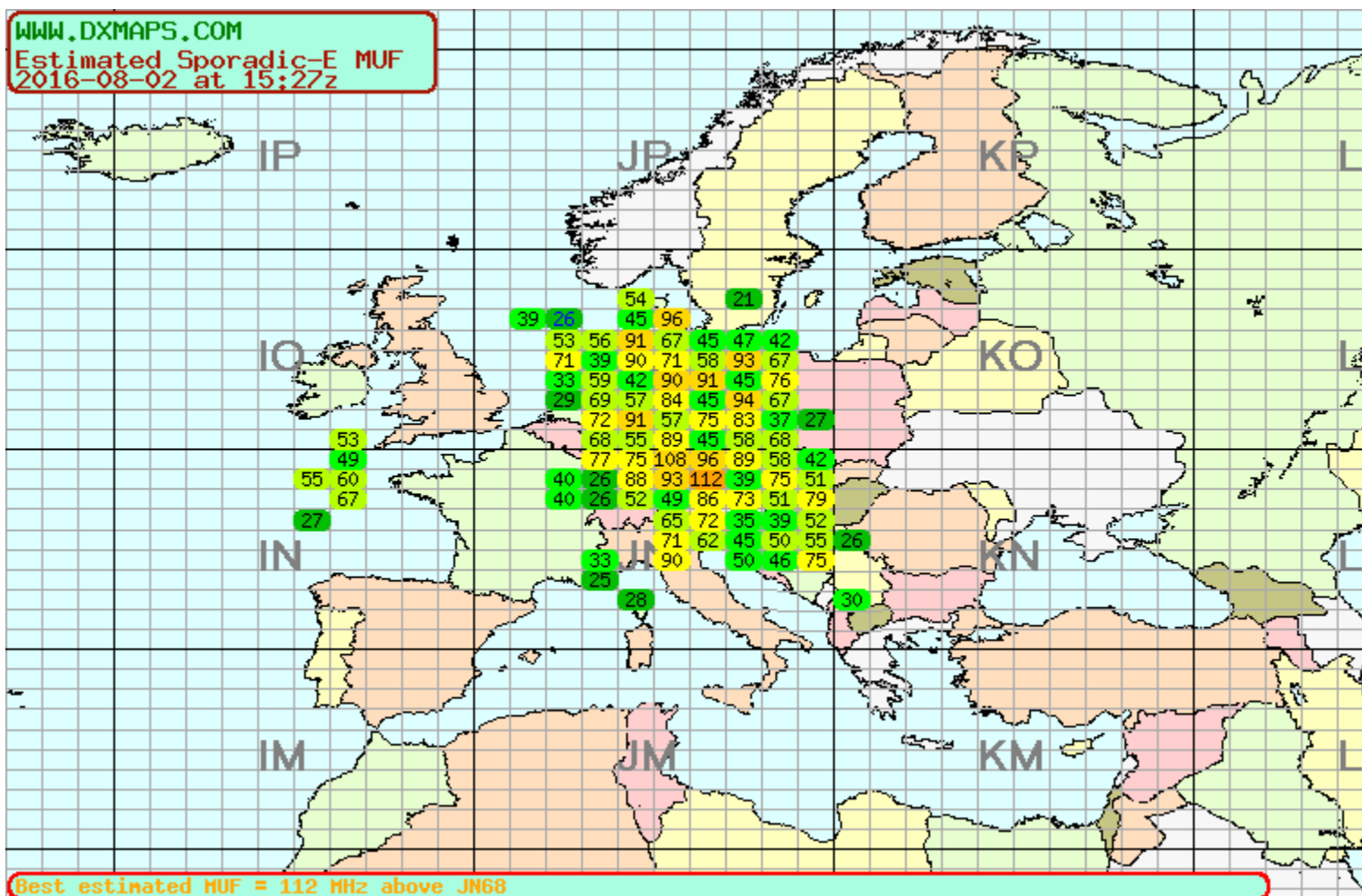


August: A Promising Start

...but is it too late?

WWW.DXMAPS.COM

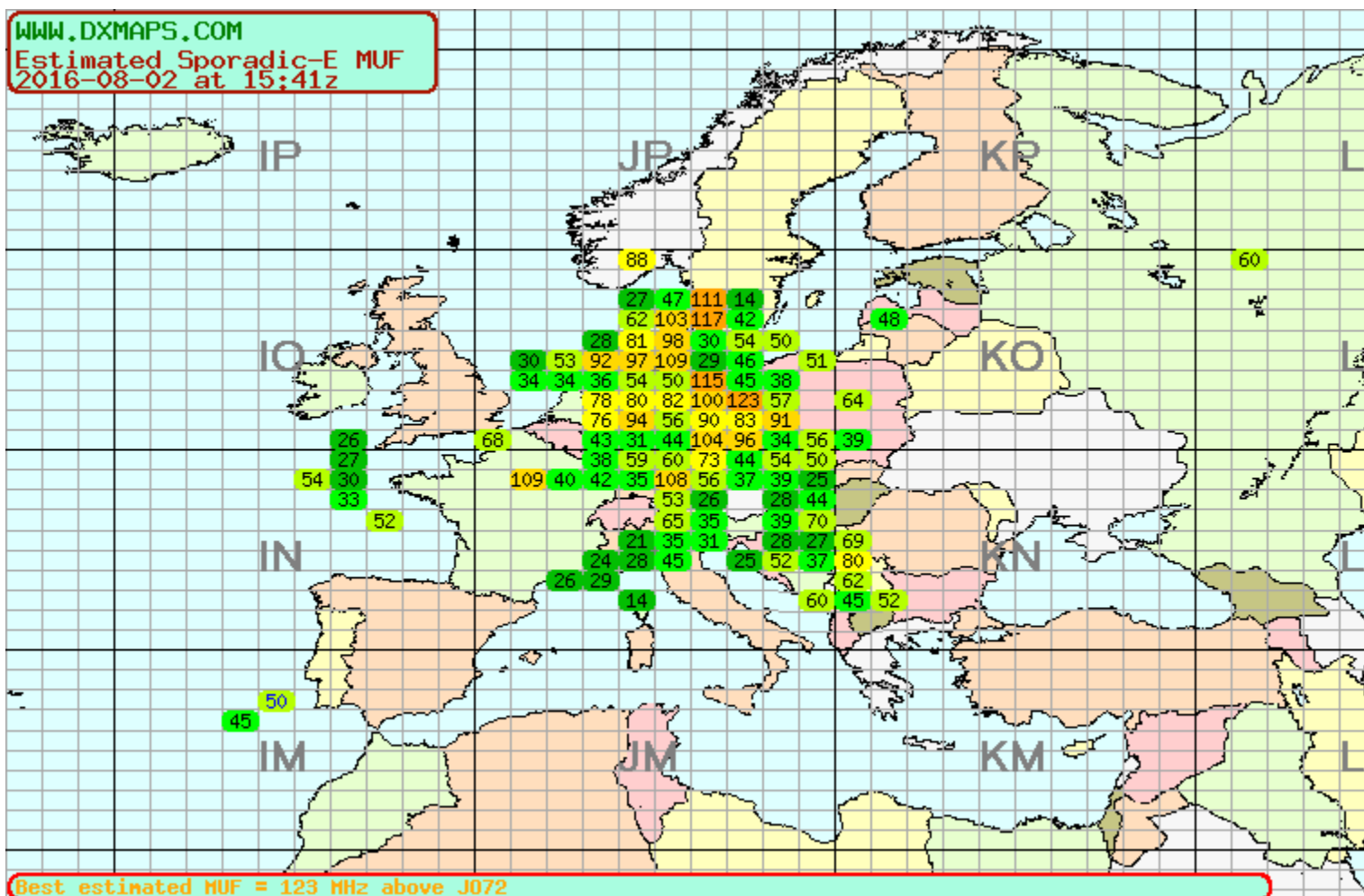
Estimated Sporadic-E MUF
2016-08-02 at 15:27z



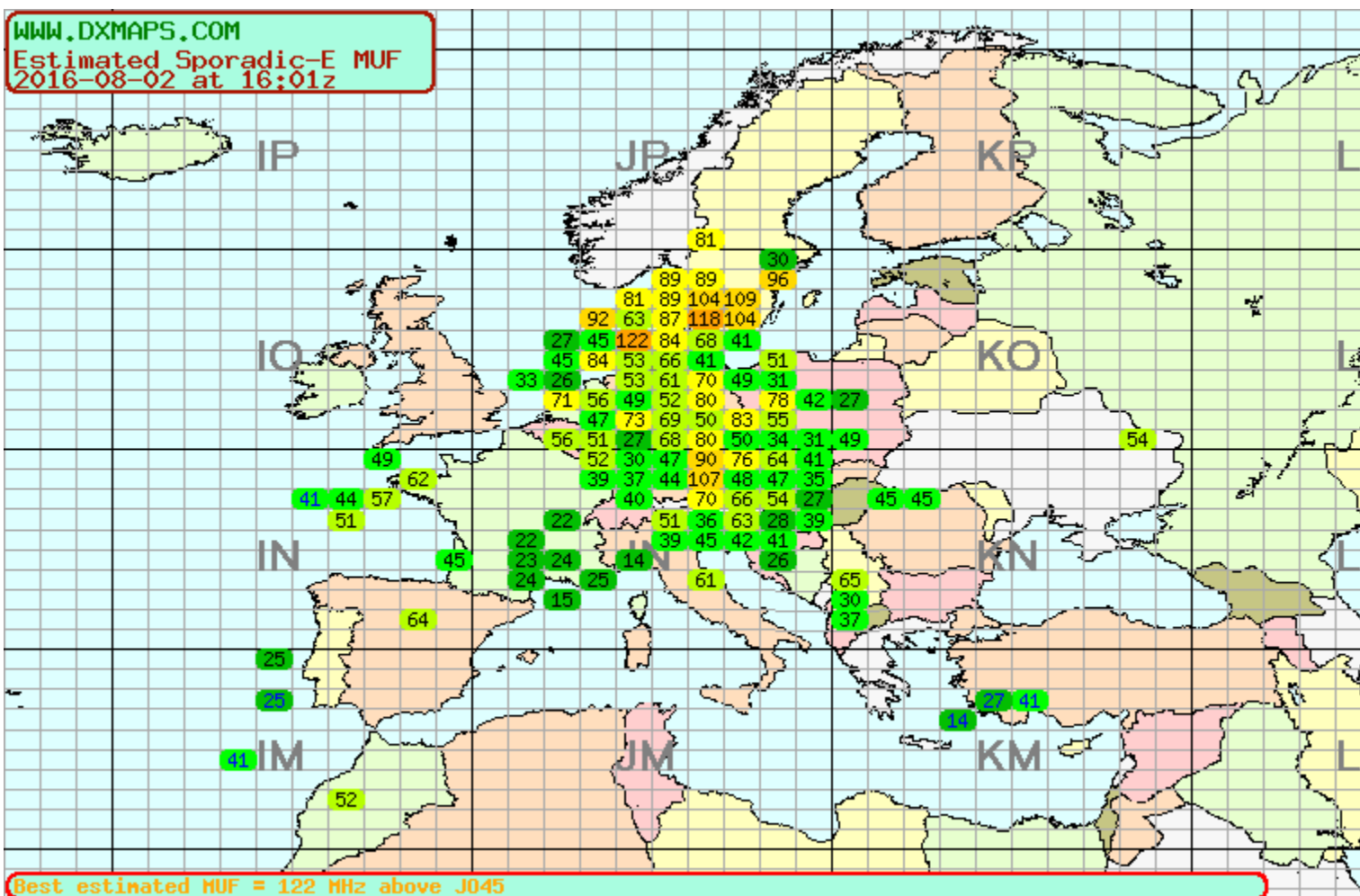
Best estimated MUF = 112 MHz above JN68

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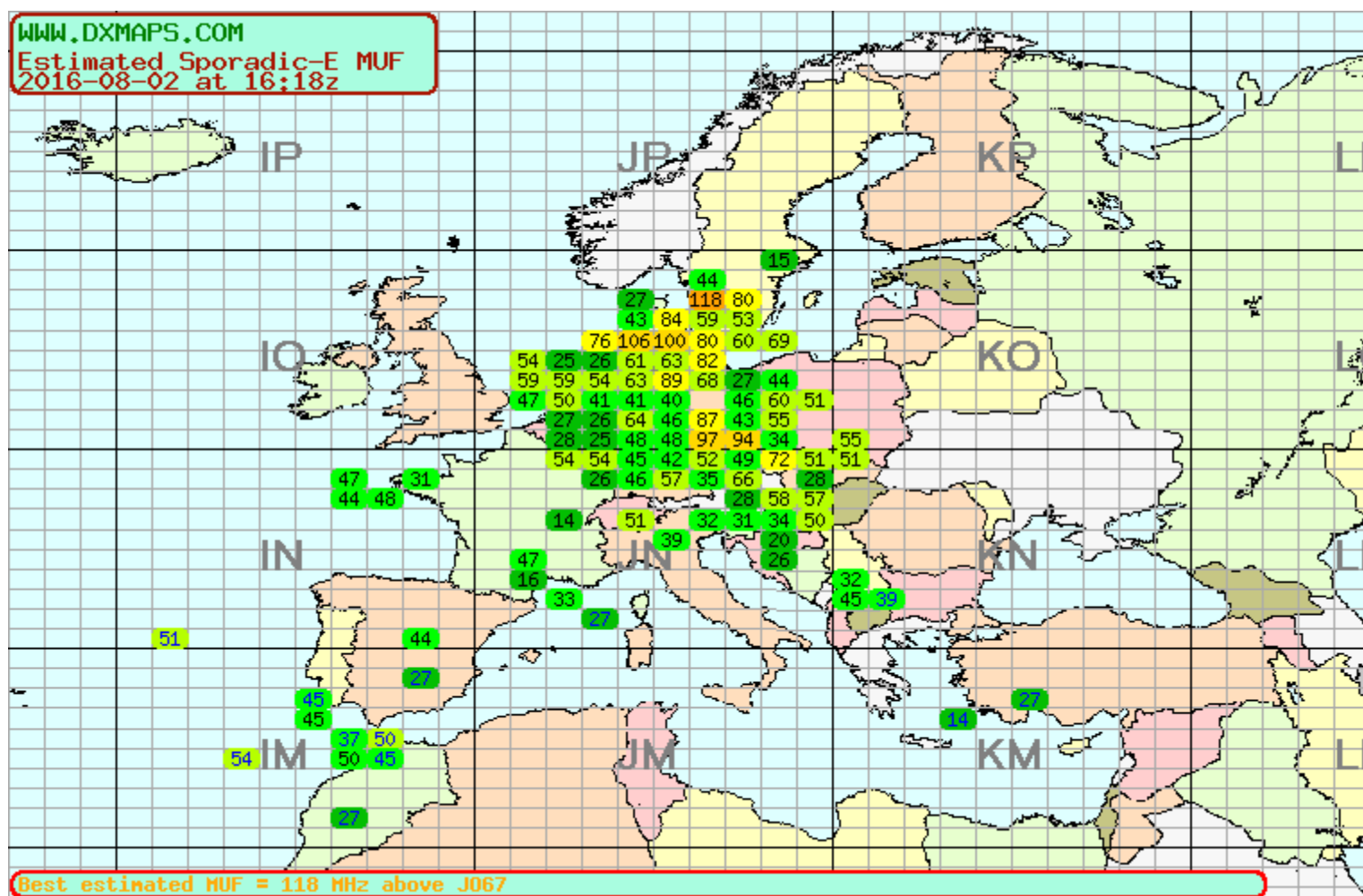
Estimated Sporadic-E MUF
2016-08-02 at 15:41z

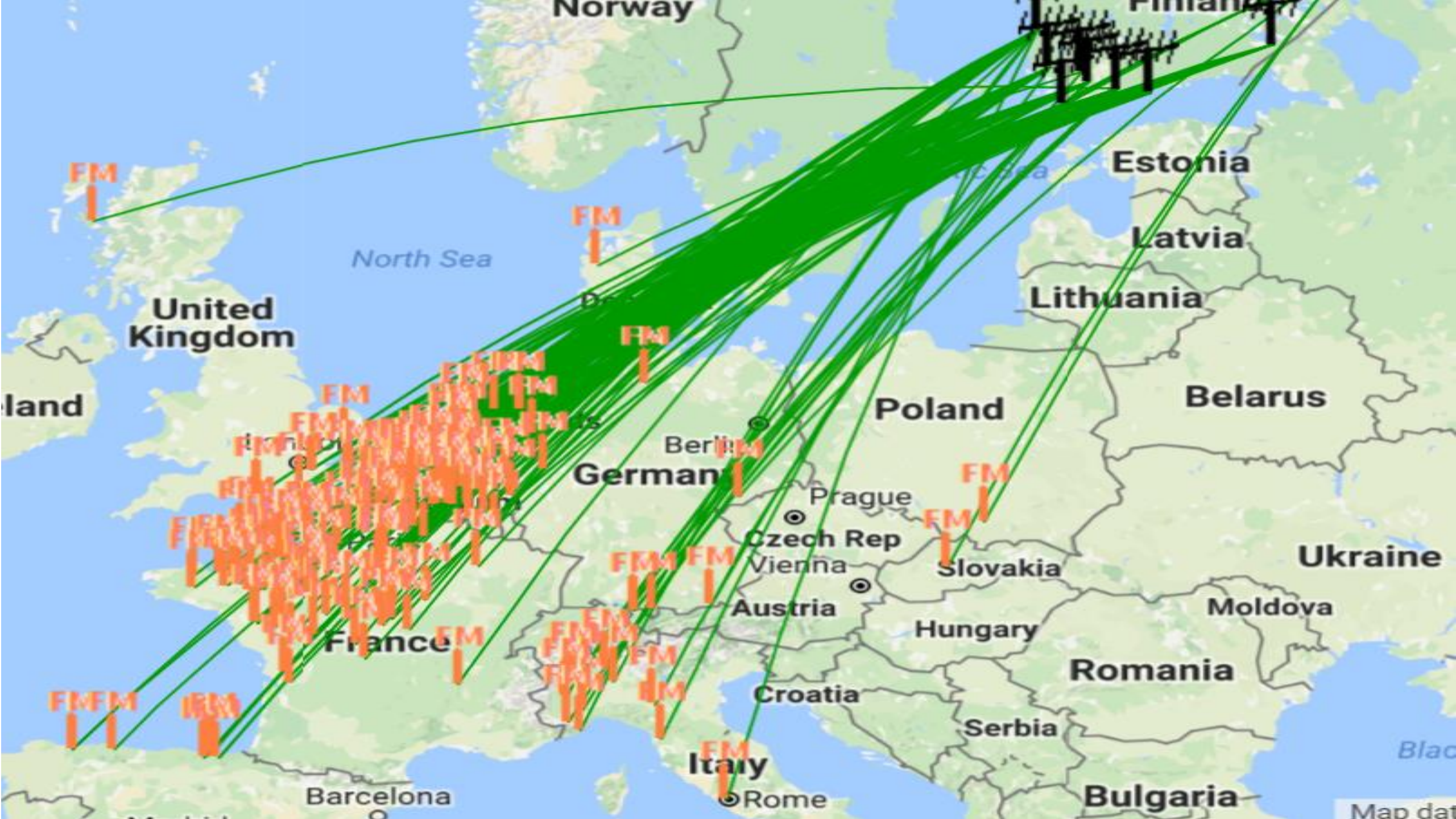


Estimated Sporadic-E MUF
2016-08-02 at 16:01z



Estimated Sporadic-E MUF
2016-08-02 at 16:18z







Daniel Herrera jakoi käyttäjän GIGA FM julkaisun.

21 min · 🌐



GIGA FM

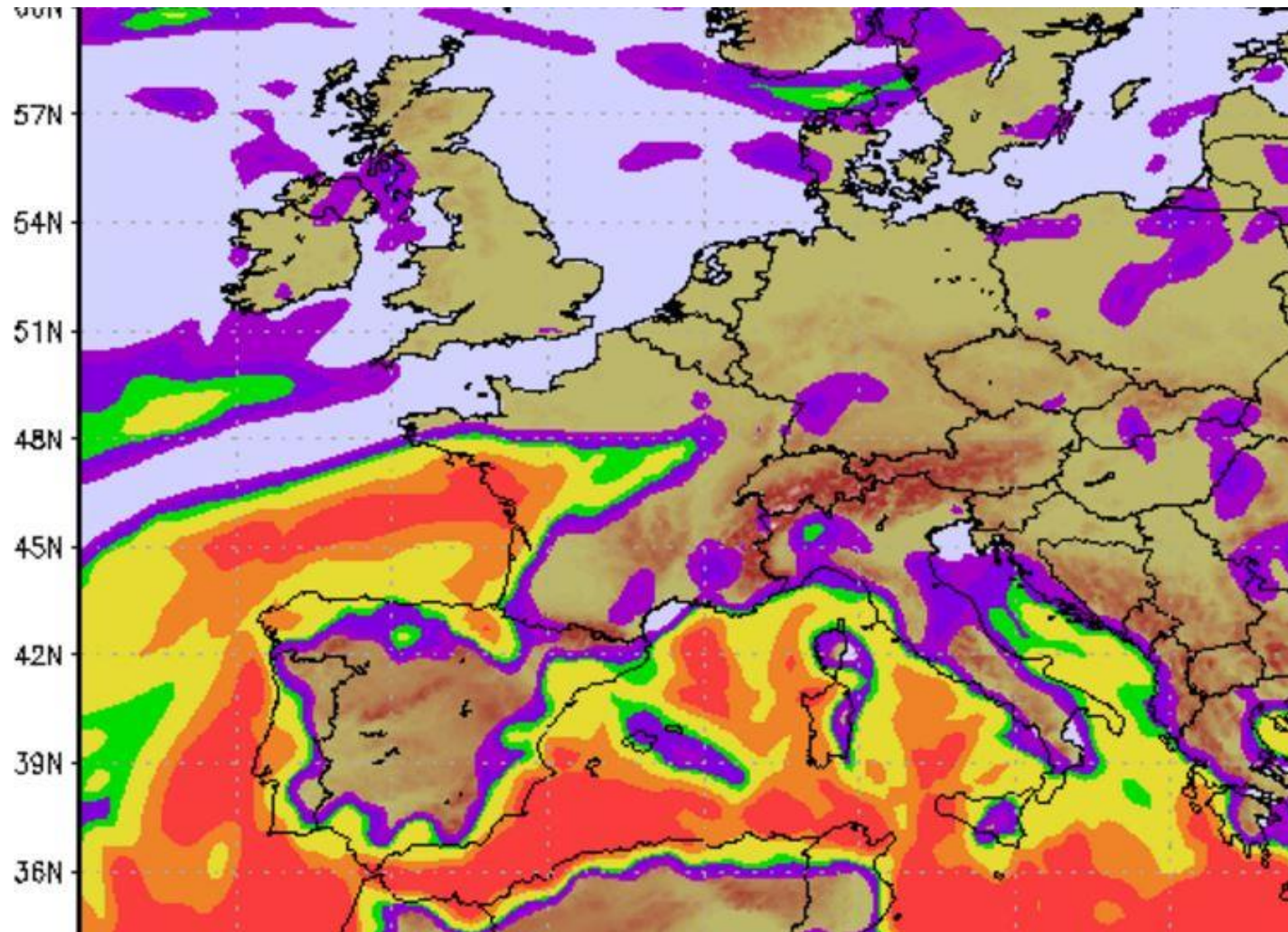
21 min · 🌐

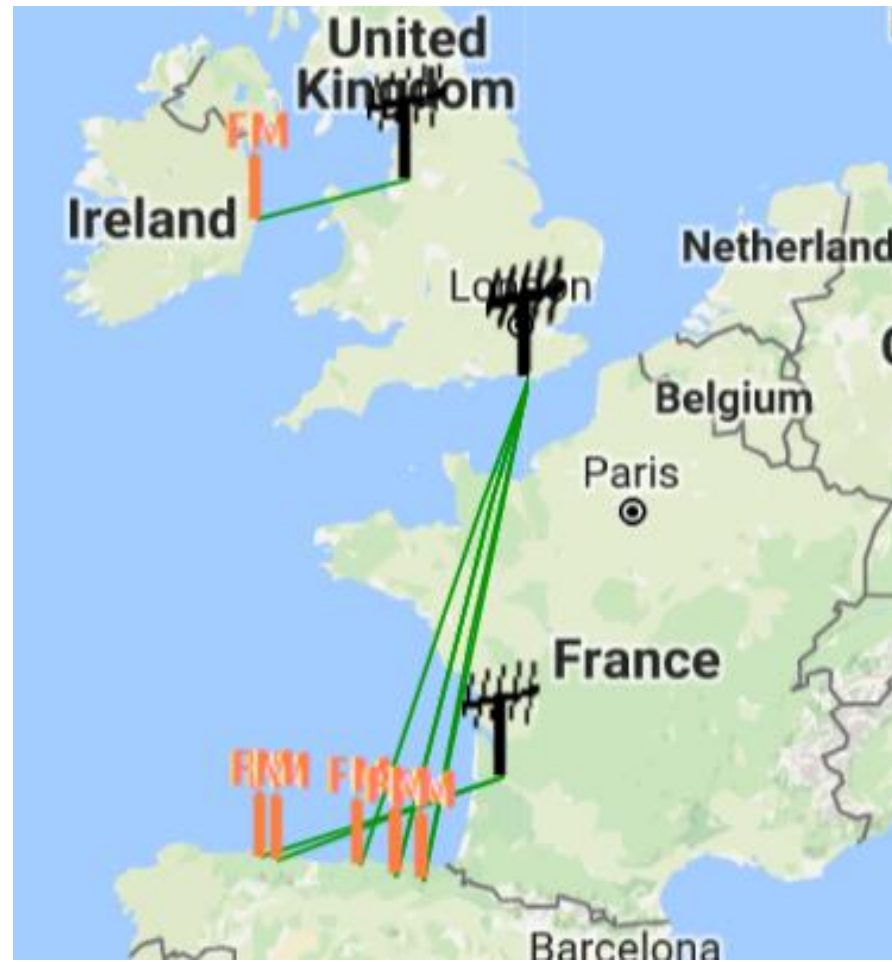
👍 Tykkää sivusta

Wow!, cosas de la FM, GIGA FM ha llegado a Finlandia, a más de 2700 kms desde Gijón, el Sr. @ismo.kauppi nos envía la grabación. Thank you!!

<https://app.box.com/s/gen9ns854mub82tnx4lb0fnlzazu4gdi>

Was Northern Spain a Tropo Extension?

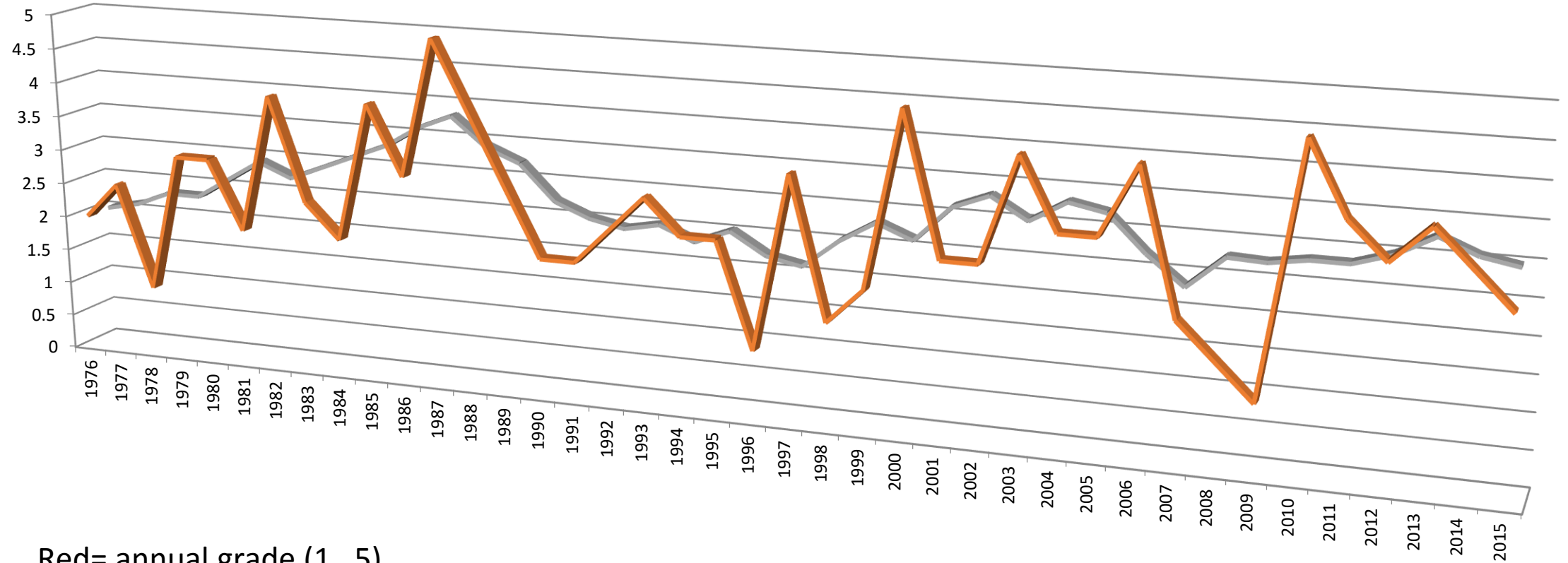




Grounded?
Your Opinion



Finnish FM History...



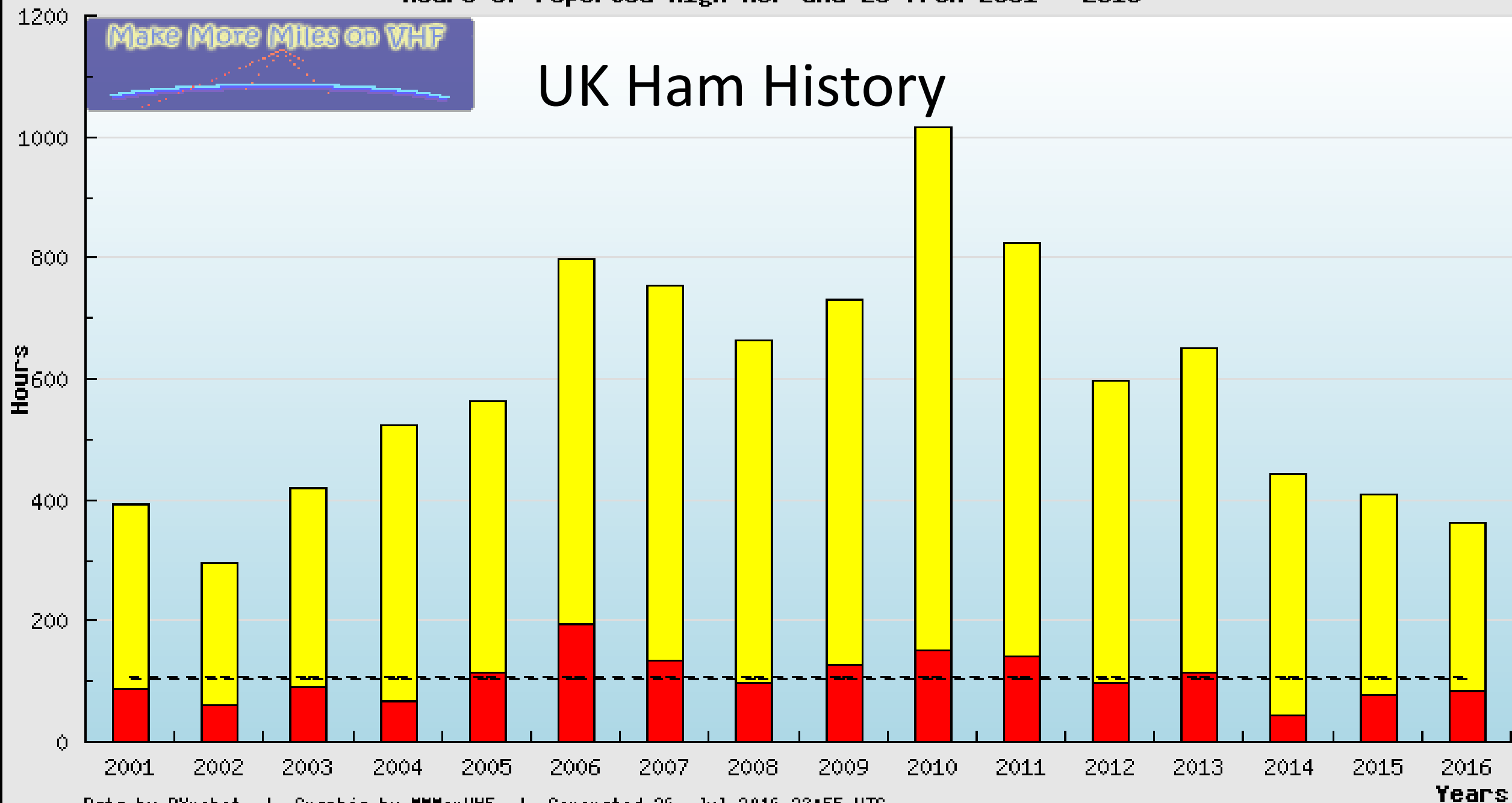
Red= annual grade (1...5)

Gray= 5 year average

All time average 2.8

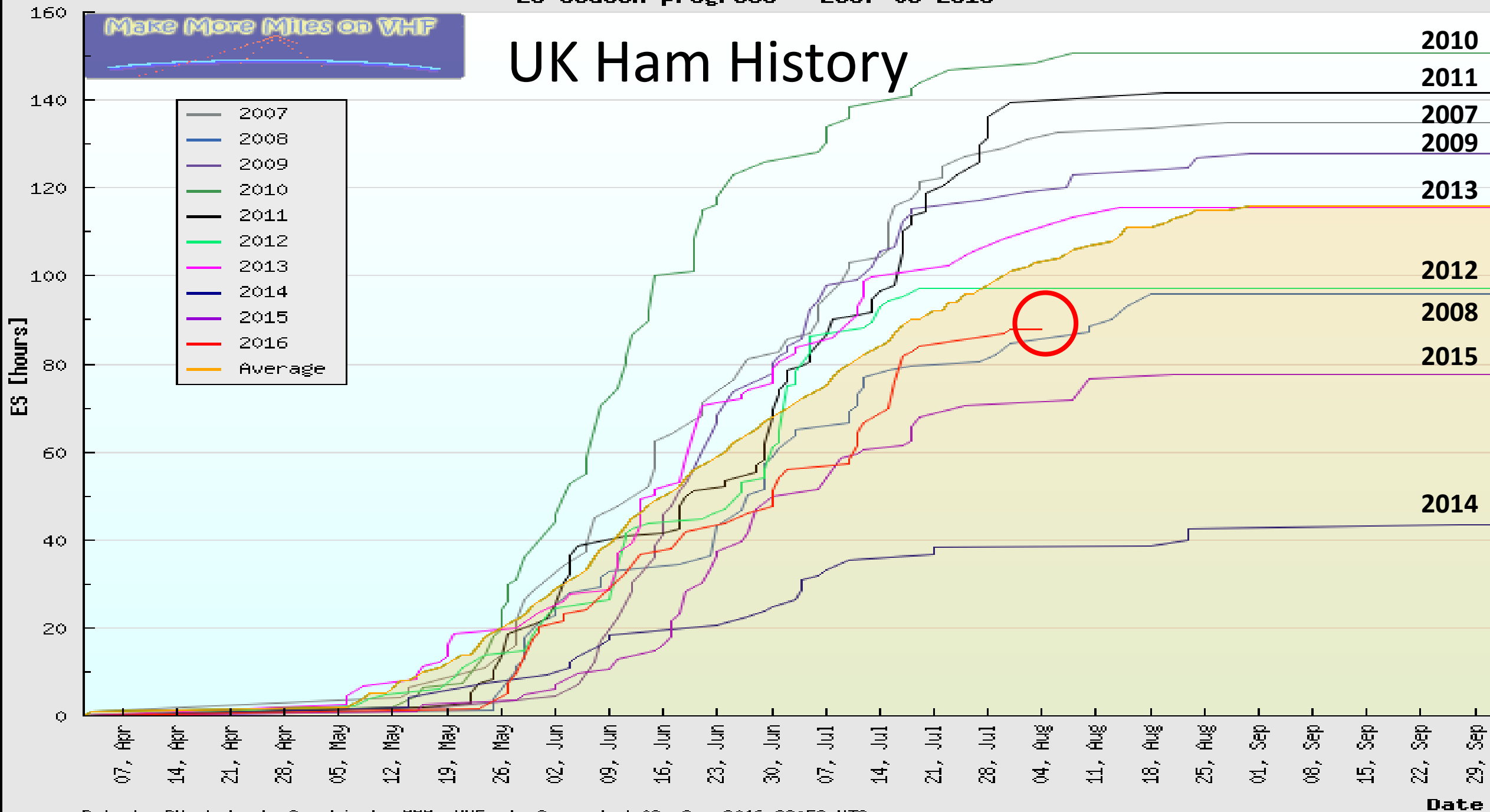
Make More Miles on VHF

UK Ham History

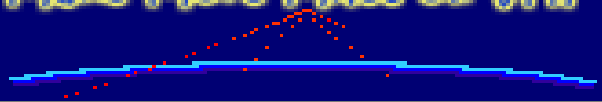


Make More Miles on VHF

UK Ham History



Make More Miles on VHF



IP

JP

KP

2016

Calculated ES-cloud positions: 2016
Based on QSO data send to MMonVHF
Generated: 26. July 2016 at 23:55 UTC

IO

JO

KO

83 93
82 92
91

05	15		
04	14	24	
03	13		
02	12	22	
01	11	21	31
00	10	20	30

IN

85
84

92

39 49
38 48

JN

46
45 55

78 88
77 87 97
86 96
85
94

09	19	29	39		
08	18	28	38	48	
07	17	27	37	47	57
06	16	26	36	46	
05	15	25	35		

KN

02
01

IM

JM

KM

Make More Miles on VHF

IP

JP

KP

2001-2016

Calculated ES-cloud positions: ALL
Based on QSO data send to MMonVHF
Generated: 26. July 2016 at 23:55 UTC

IO

JO

KO

IN

JN

KN

IM

JM

KM

94
93

04 14
03

29

07 17 27 37
05 15 25 35 45 55 65 75 85 95
04 24 34 44 54 64 74 84 94
03
02
01
10

77 87 97
76 86 96
53 73 83

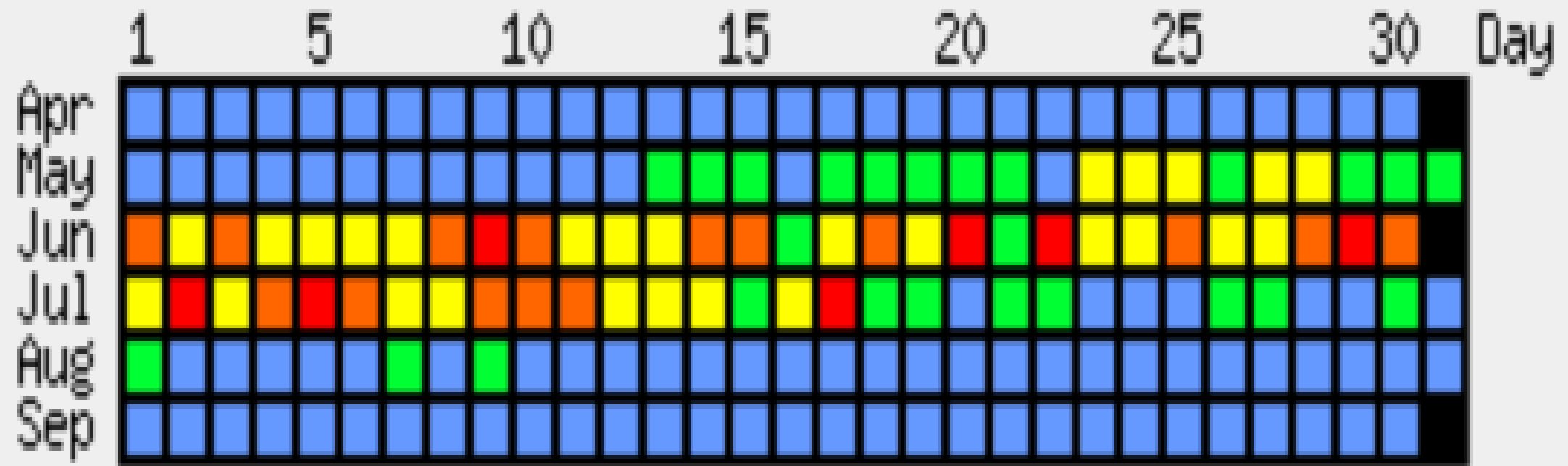
09 19 39
08 18 28 38
07 17 27 37 47
06 16 26 36 46
05 15 25 35 45 55
04

Your Vote, Please

Es Forecasting Champion 2016



Statistical ES probability (144MHz)



Low

Moderate

High

VeryHigh

Extreme

Based on DXrobot data since 2001

Graphic by MMNonVHF | 2016-05-13

Our Result (end July)

Rank	Total	Day 1	Day 2	Day 3			
1							
2	667	31	537	99	JNO: 7.6. / 8.6. / 18.6.		
3	576	31	537	8	TAK: 7.6. / 8.6. / 16.6		
4	537	537	0	0	MOP: 8.6. / 24.7. / 7.8.		
5	523	396	99	28	JJJ: 30.5. / 18.6. / 10.7.		
6	145	1	140	4	IKA: 1.6. / 10.6. / 20.6.		
7	143	8	36	99	JY: 16.6. / 17.6. / 18.6.		
8	128	99	28	1	VMK: 18.6. / 10.7. / 16.7.		
9	93	31	31	31	RANDOM APE		
10	90	90	0	0	VJR: 12.6. / 27.6. / 8.7.		
11	84	11	33	40	JMN: 13.6. / 14.6. / 15.6.		
12	44	43	1	0	MNI: 19.6. / 28.6. / 18.7.		
13	42	2	40	0	TIK: 3.6. / 15.6. / 9.7.		
14	36	0	36	0	THT: 18.5. / 17.6. / 13.7.		
15	36	0	36	0	JLN: 6.6. / 17.6. / 2.7.		
16	21	8	12	1	JTK: 16.6. / 29.6. / 7.7.		
17	16	8	8	0	HKU: 5.6. / 16.6. / 24.7.		
18	6	0	6	0	JMS: 24.6. / 25.6. / 26.6.		
19	2	2	0	0	JJH: 3.6. / 13.7. / 16.8.		
20	2	2	0	0	MSO: 2.6. / 3.7. / 4.8.		

And The Winner Is... Jussi Lappalainen!

<i>Rank</i>	<i>Total</i>	<i>Day 1</i>	<i>Day 2</i>	<i>Day 3</i>				
1	933	396	537	0	JKL:	30.5.	/ 8.6.	/ 3.7.
2	667	31	537	99	JNO:	7.6.	/ 8.6.	/ 18.6.
3	576	31	537	8	TAK:	7.6.	/ 8.6.	/ 16.6
4	537	537	0	0	MOP:	8.6.	/ 24.7.	/ 7.8.
5	523	396	99	28	JJJ:	30.5.	/ 18.6.	/ 10.7.
6	145	1	140	4	IKA:	1.6.	/ 10.6.	/ 20.6.
7	143	8	36	99	JY:	16.6.	/ 17.6.	/ 18.6.
8	128	99	28	1	VMK:	18.6.	/ 10.7.	/ 16.7.
9	93	31	31	31	RANDOM APE			
10	90	90	0	0	VJR:	12.6.	/ 27.6.	/ 8.7.
11	84	11	33	40	JMN:	13.6.	/ 14.6.	/ 15.6.
12	44	43	1	0	MNI:	19.6.	/ 28.6.	/ 18.7.
13	42	2	40	0	TIK:	3.6.	/ 15.6.	/ 9.7.
14	36	0	36	0	THT:	18.5.	/ 17.6.	/ 13.7.
15	36	0	36	0	JLN:	6.6.	/ 17.6.	/ 2.7.
16	21	8	12	1	JTK:	16.6.	/ 29.6.	/ 7.7.
17	16	8	8	0	HKU:	5.6.	/ 16.6.	/ 24.7.
18	6	0	6	0	JMS:	24.6.	/ 25.6.	/ 26.6.
19	2	2	0	0	JJH:	3.6.	/ 13.7.	/ 16.8.
20	2	2	0	0	MSO:	2.6.	/ 3.7.	/ 4.8.

Grand Total 2011-2016

1.	IKA	26	1
2.	JY	25	1
3.	KKH	24	1
4.	MNI	23	0
	Random Ape	23	0
6.	JJJ	20	0
	MOP	20	0
...			
25.	JTK	5	0



Thank you!
jtk@sdxl.org

