

FM Workshop 2019



SUOMEN DX-LIITTO ry



FM-Paneelin sisältö

- 2019 kesän yhteenveto
- Kelikarttoja ja klippejä
- Vähän vehkeistä
- Keliennustaja 2019
- Vuosiäänestys
- Voiko Essiä ennustaa?
- Vuoden kovimmat nappaukset



Plussat ja miinukset

Hyvää

- 16.6. MUF108 Balkan
- 6.7. brittikelit lounaassa
- 8.7. arabit Virolahdella
- jaa-a...

Huonoa

- MUF yleensä matala
- Lyhyitä tökköavauksia
- Ei juurikaan tuplahyppyjä
- Äärimmäisen huono kesäkuu suurten pedisten aikaan
- “She’s a big teaser; she took me half the way there”

--The Beatles: Day Tripper

Es-lokausten kokonaismäärä OLLissa per 31.7

2019 **1523**

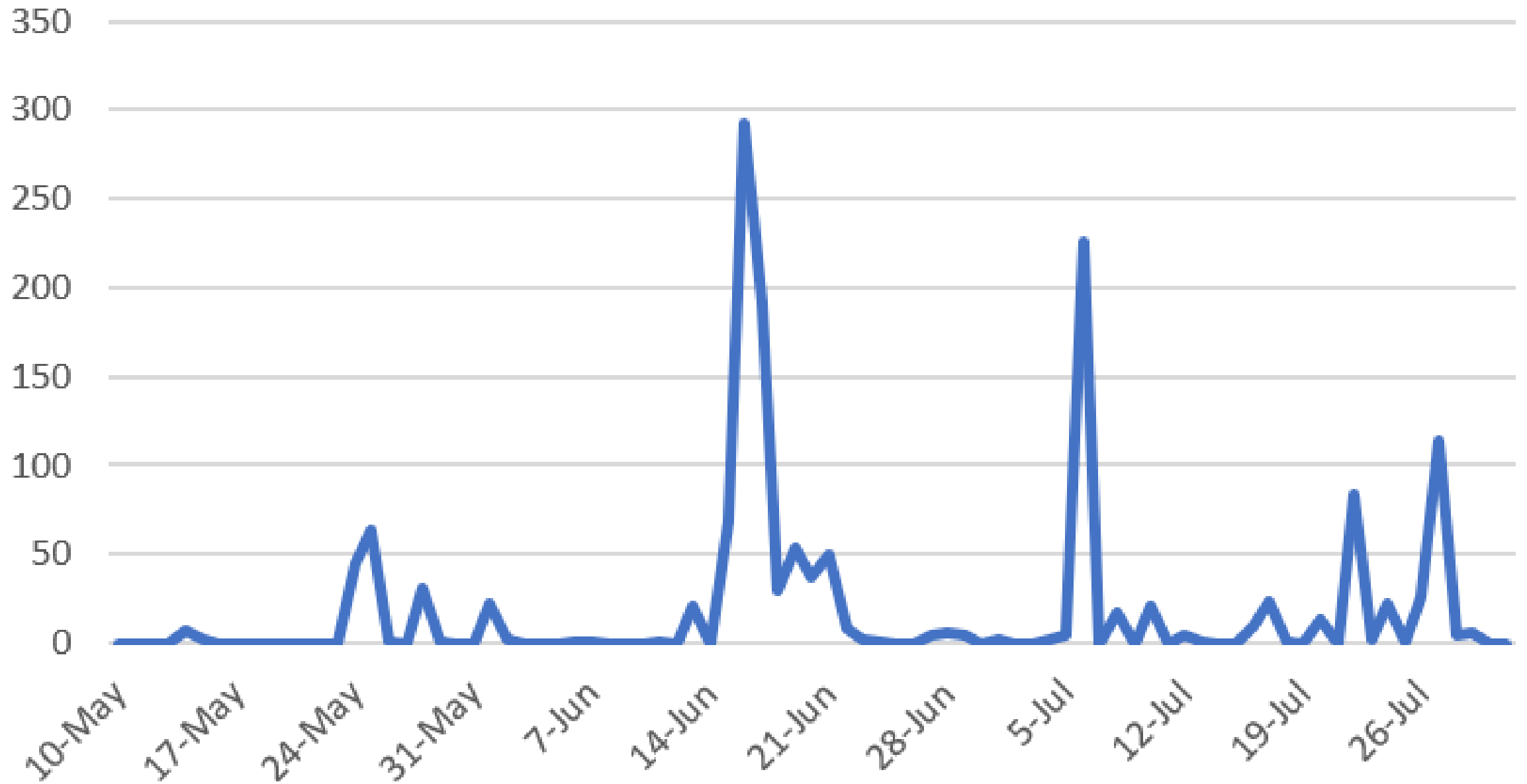
2018 **2544**

2017 **4954**

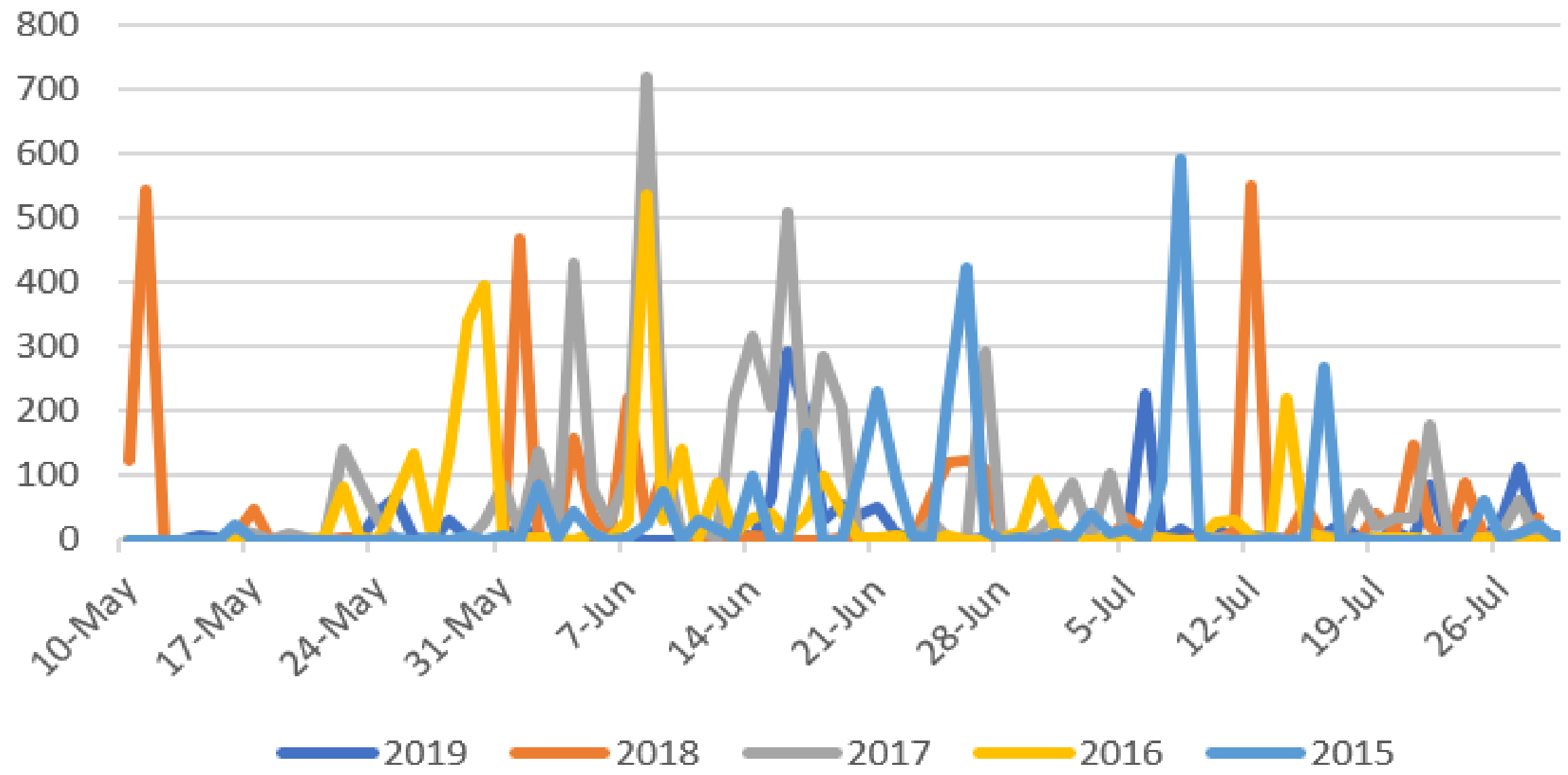
2016 **2716**

2015 **2818**

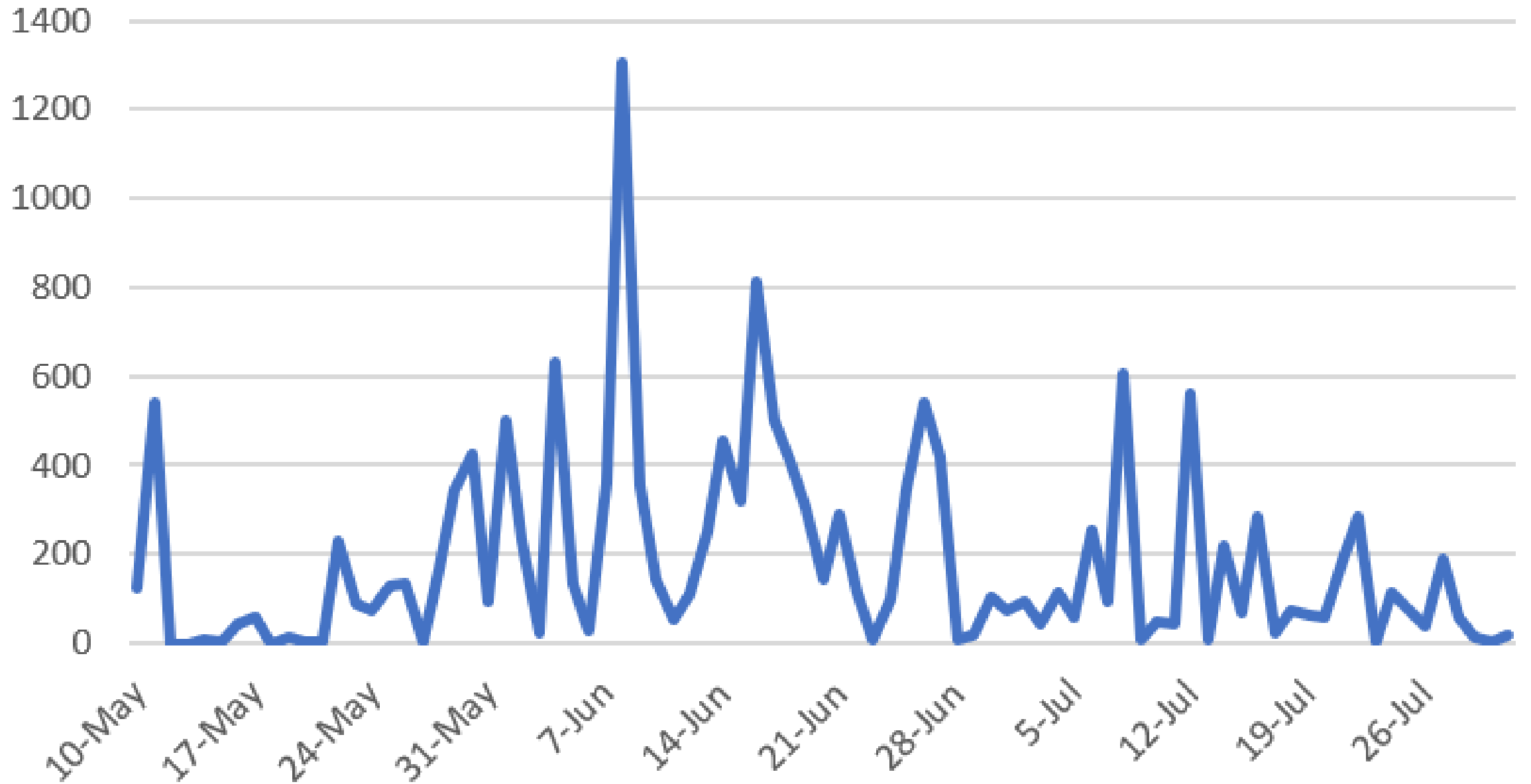
2019



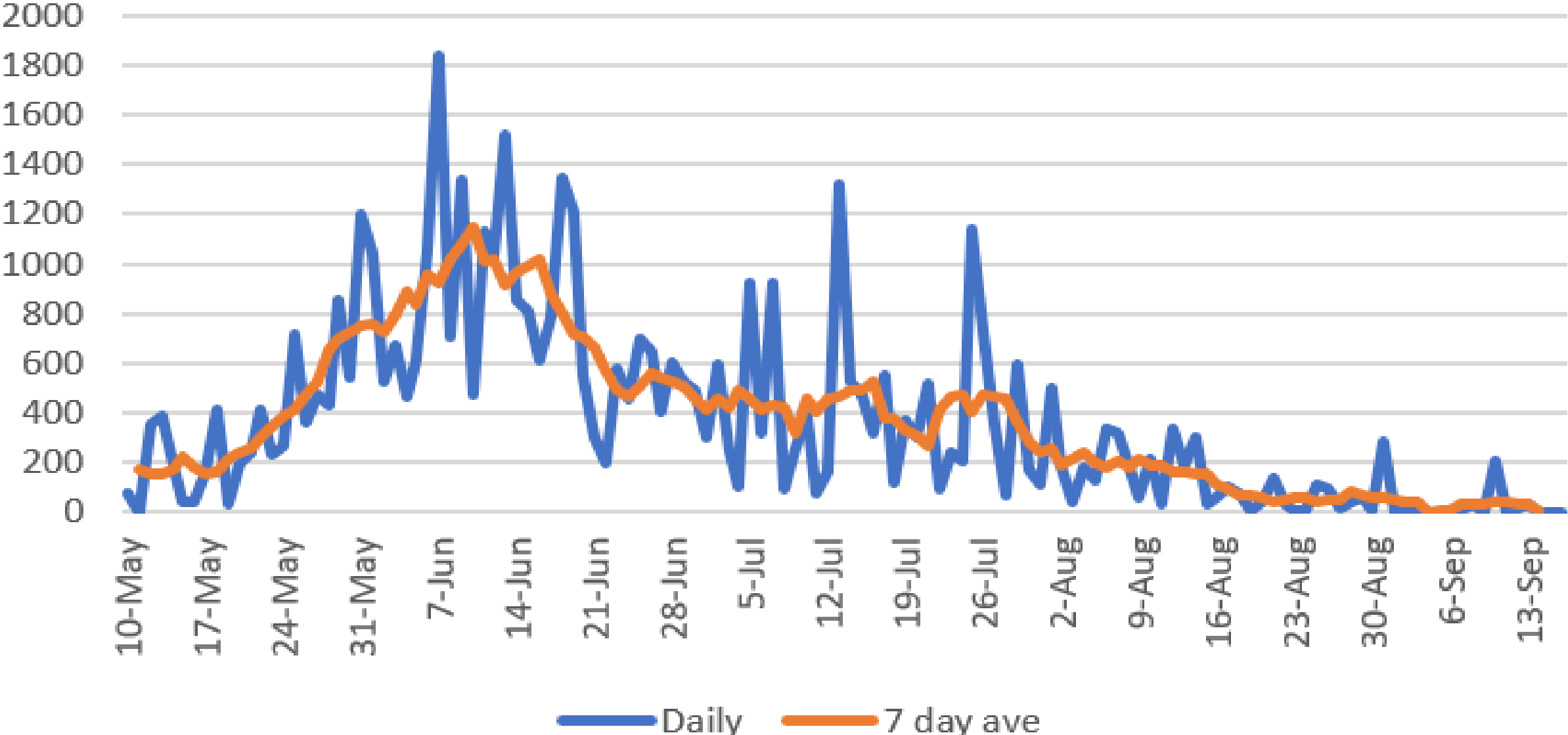
Log entries per day

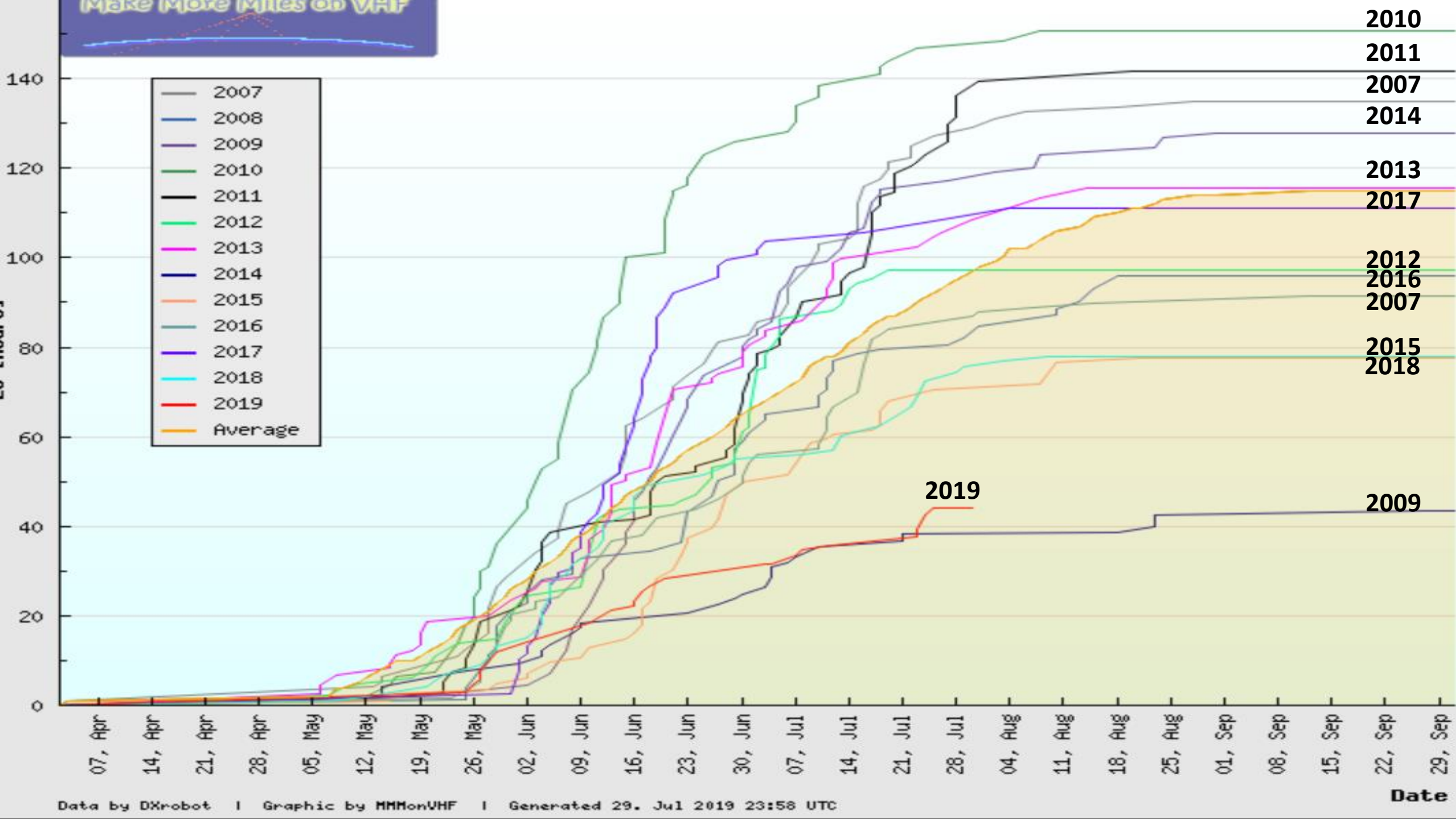


2015-2019



OLL FM Es Log Entries 2004-2017

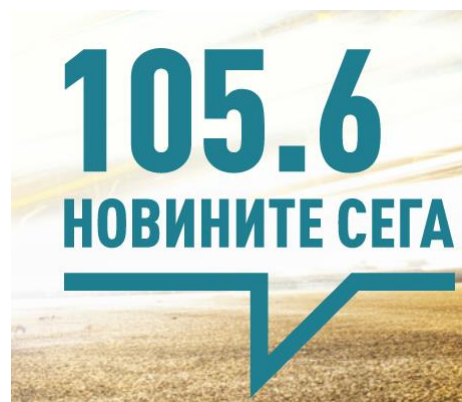




Making something out of nothing

Parhaat päivät esittelyssä

16 June Balkan (by JTK)



105.6 BUL: R Evropa - Novinite sega, Sofia



106.8 MDA: R Plai, Chisinau (Ploiesti-tx)

107.1 ROU: Pro FM, Constanta

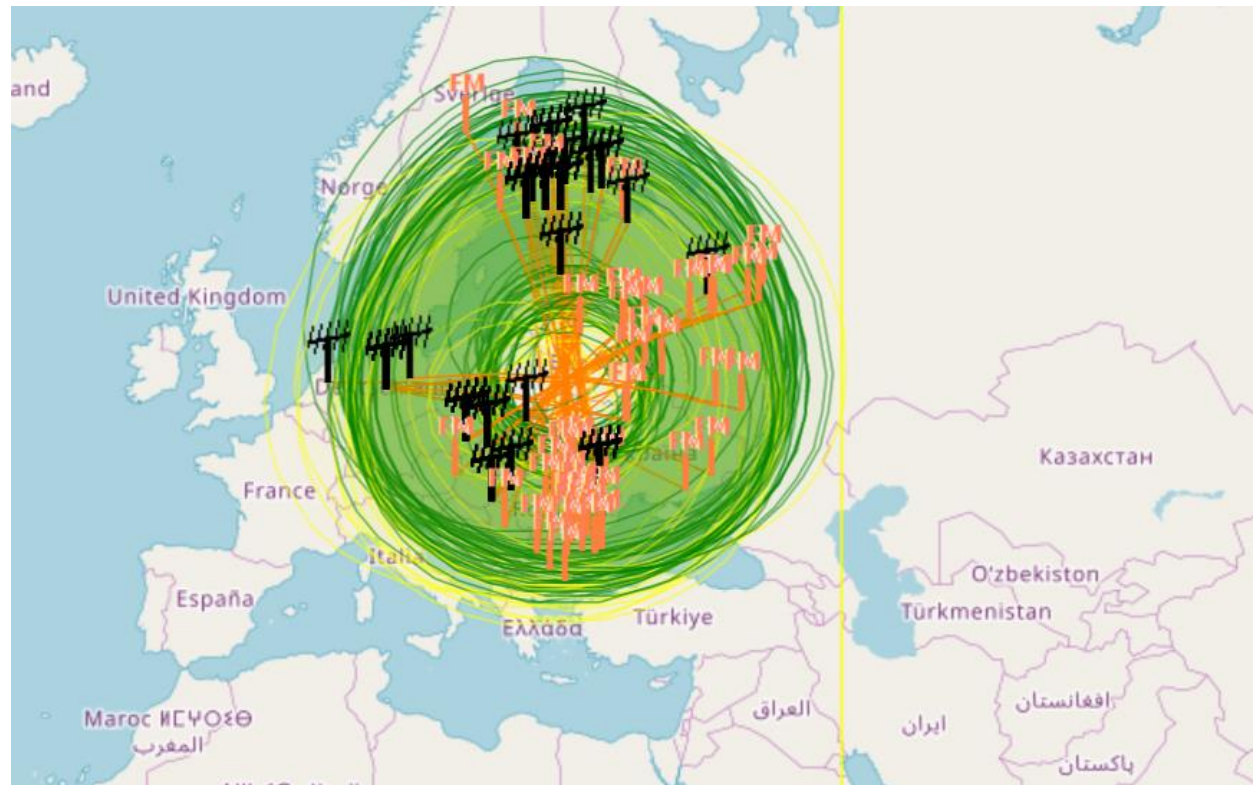


99.0 TUR: Can Radyo, Eregli (kdz)



16 June

https://www.fmlist.org/fm_dcsmap.php?date=2019-06-16&from=0400&to=1530



UK 6 July by JMS

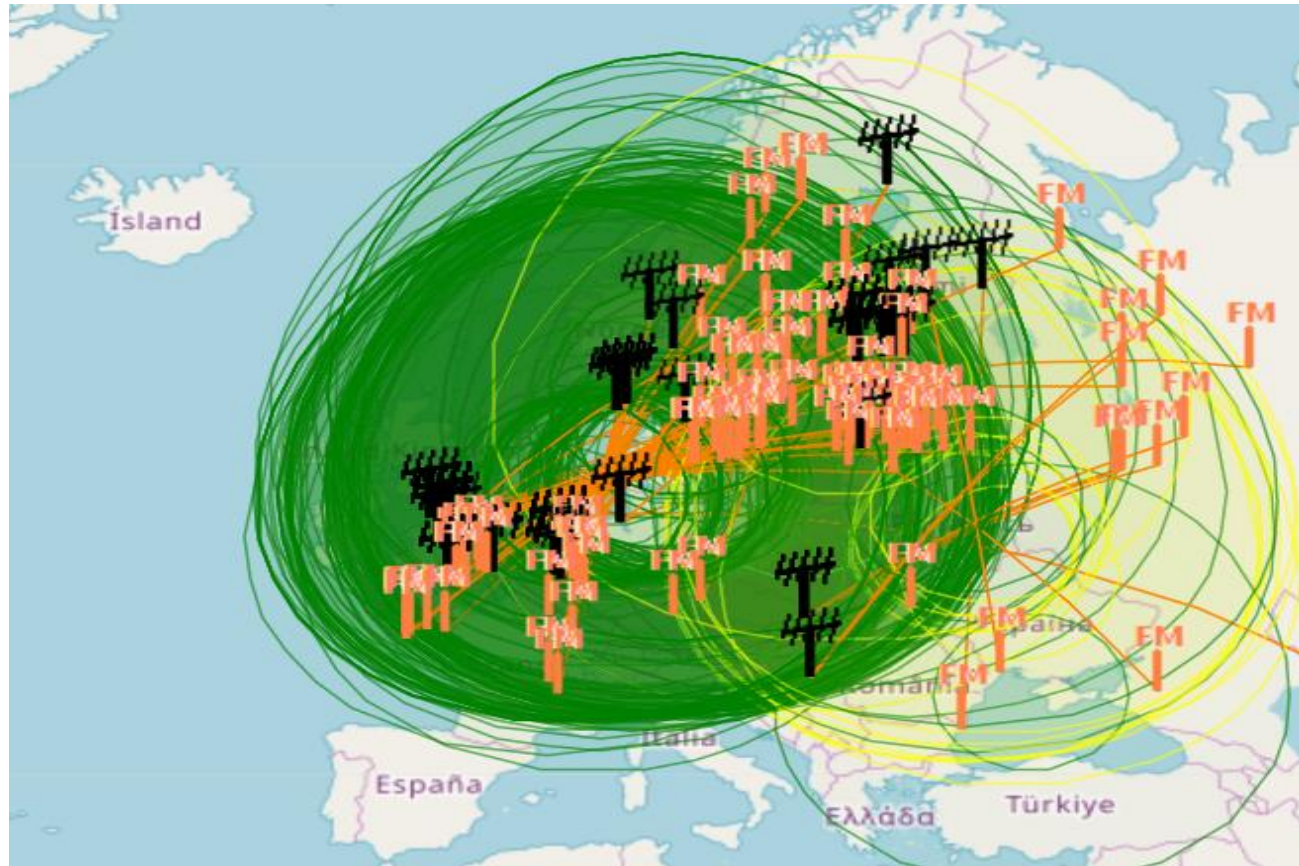


Online and 104.7 fm



6 July

- https://www.fmlist.org/fm_dcsmap.php?date=2019-07-06&from=0700&to=1530



8 July Double Hops by HKU

99.7 KWT: Radio Kuwait, Kuwait City

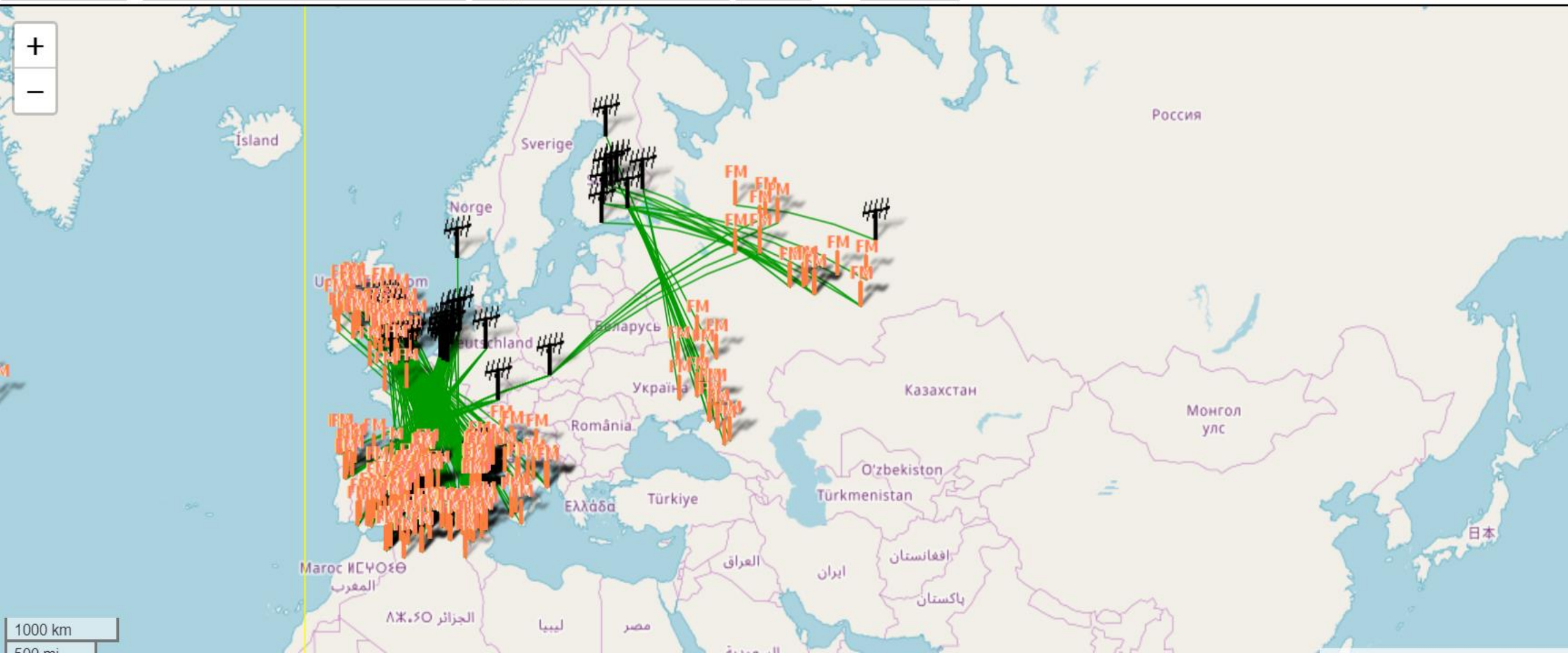
(DJ Maha:lla oli mahatauti)

93.3 IRQ: Al-Misrat, Al-Basrah



Not on the map!

Select log date: or Select log period: 2019-07-08 - Propagation mode: Es (sporadic E) Stations from: received in: LOG PLAYER (new window) ALL ALL Show current date 490 logs from 40 contributors. on 2019-07-08



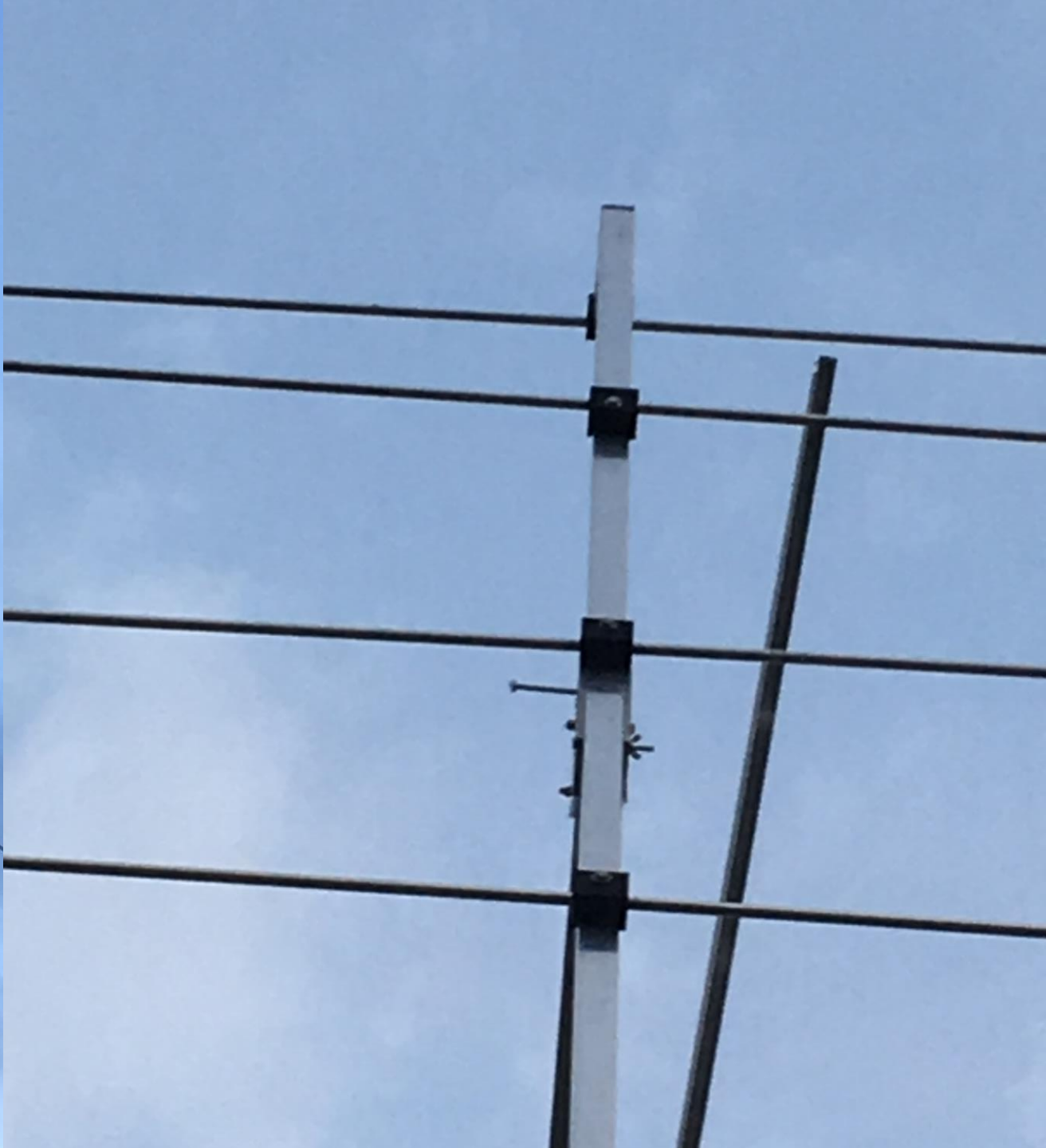
Laitteista

Körnerit ylös!

Esittelyssä SDR Console v3.0.11



Pic: HKU



Pic: JTK

Home View Receive Transmit Rec/Playback Favourites Memories Tools Help

Record Stop Browse Record... Stop Options Lock Radio Browse Open Play Pause Stop Repeat Restart Back 10 seconds Seek Forward 10 seconds Gain 0 dB Center Navigator Schedule Start

Audio Data :: Record Data :: Playback Data :: Scheduler

Show in status bar
 Start automatically

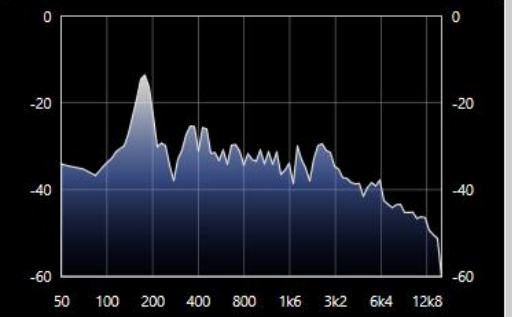
Receive

RX 1 125 kHz

0.104.700.000

Default

10



Filter

... SAM CW-U

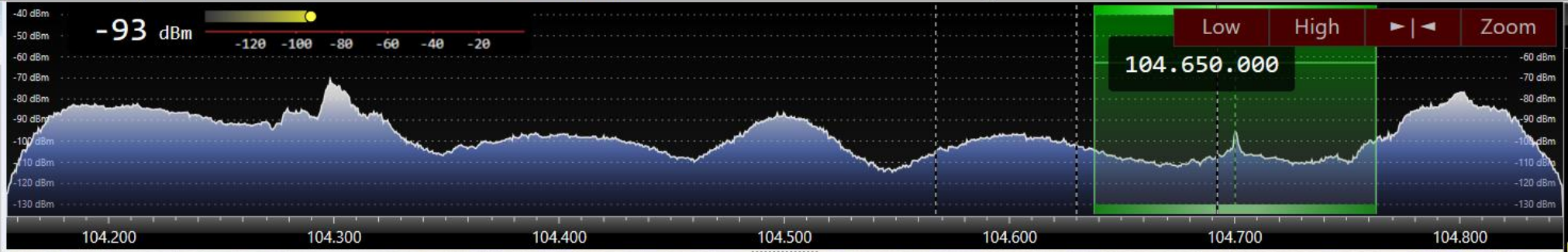
BFM NFM WFM

LSB USB Wide-U

Filter

... 80kHz 100kHz

115kHz 125kHz 150kHz



News 104.7 DX -

E828

CU

Title: 104.5 MHz, BW 768 kHz, 2019-06-16 11:01
File: 16-Jun-2019 110127.520 104.500MHz
Time: Sun 16-Jun-2019 11:16:14
Playback ...: --:14:47

103.000 103.500 104.000 104.500 105.000 105.500 106.000

Playback

Folder Play Pause Stop Repeat 10s Refresh Center Gain +/-

Show time...

0 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 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59

11

Keliennustaja 2019

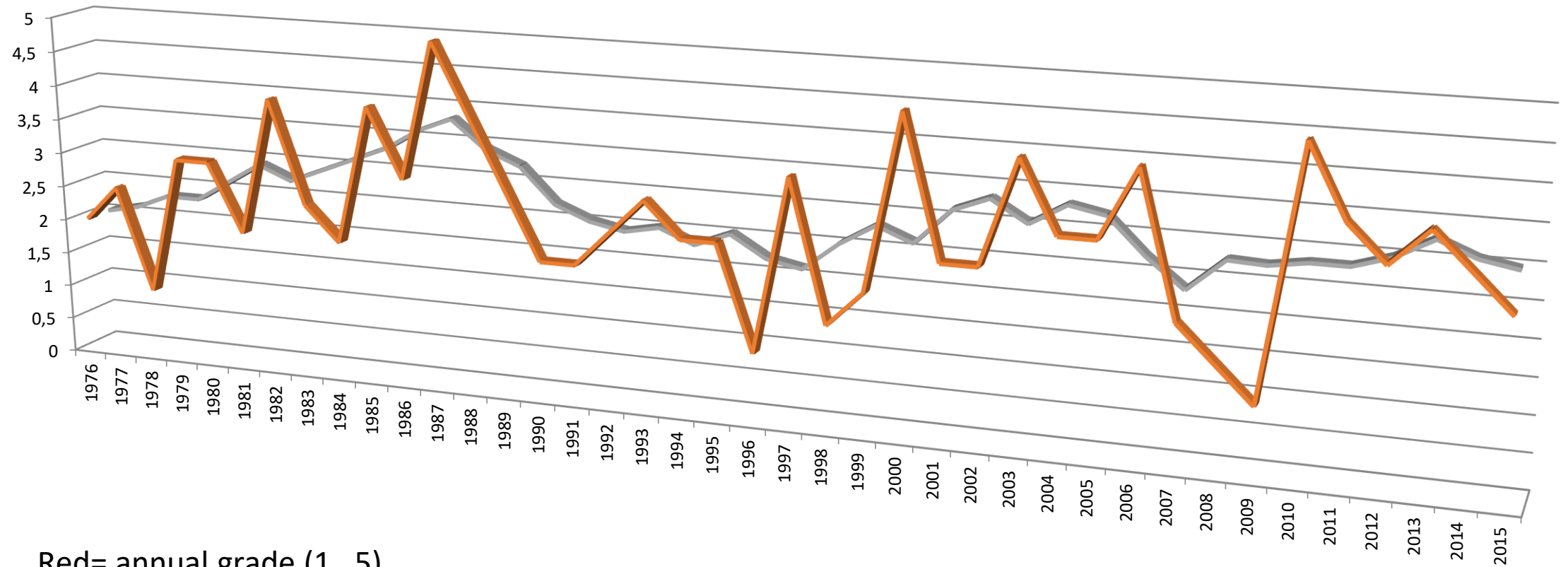
Olemme surkeita ennustajia!

Keliennustaja 2019

| | | | | | |
|----|---|----|----|-----|------------|
| 1 | Esa Pietikäinen 20.5. / 6.6. / 6.7 | 0 | 1 | 226 | 227 |
| 2 | JJH: 25.5. / 1.6. / 14.6. | 64 | 22 | 0 | 86 |
| 3 | VJR: 6.6. / 13.6. / 21.6. | 1 | 21 | 50 | 72 |
| 4 | APE | 18 | 18 | 18 | 54 |
| 5 | JTK: 7.6. / 20.6. / 5.7. | 1 | 37 | 5 | 43 |
| 6 | KKH: 12.6. / 20.6. / 12.7. | 0 | 37 | 5 | 42 |
| 7 | JMN: 28.5. / 5.6. / 1.7. | 31 | 0 | 2 | 33 |
| 8 | TAK: 31.5. / 10.6. / 13.6. | 0 | 0 | 21 | 21 |
| 9 | Sunnuntaivekkari: 16.5. / 2.6. / 29.6. | 0 | 2 | 5 | 7 |
| 10 | JLN: 7.6. / 24.6. / 3.7. | 1 | 1 | 0 | 2 |
| 11 | JJS: 9.6. / 12.6. / 4.7. | 0 | 0 | 2 | 2 |
| 12 | MOP: 8.6. / 13.7. / 3.8. | 0 | 1 | | 1 |
| 13 | MNI: 29.5. / 25.6. / 14.7. | 1 | 0 | 0 | 1 |
| 14 | JJJ: 3.5. / 10.5. / 26.6. | 0 | 0 | 0 | 0 |
| 15 | JSU: 13.5. / 23.5. / 8.6 | 0 | 0 | 0 | 0 |
| 16 | JY:: 11.5. / 8.6 / 10.6. | 0 | 0 | 0 | 0 |
| 17 | IKA: 8.6. / 9.6. / 7.7. | 0 | 0 | 0 | 0 |

Vuosiäänestys

Finnish FM History...



Es-lokausten kokonaismäärä per 31.7

2019 **1523** - arvosana **1.7**

2018 **2544** - arvosana 2.2

2017 **4954** - arvosana 4.0

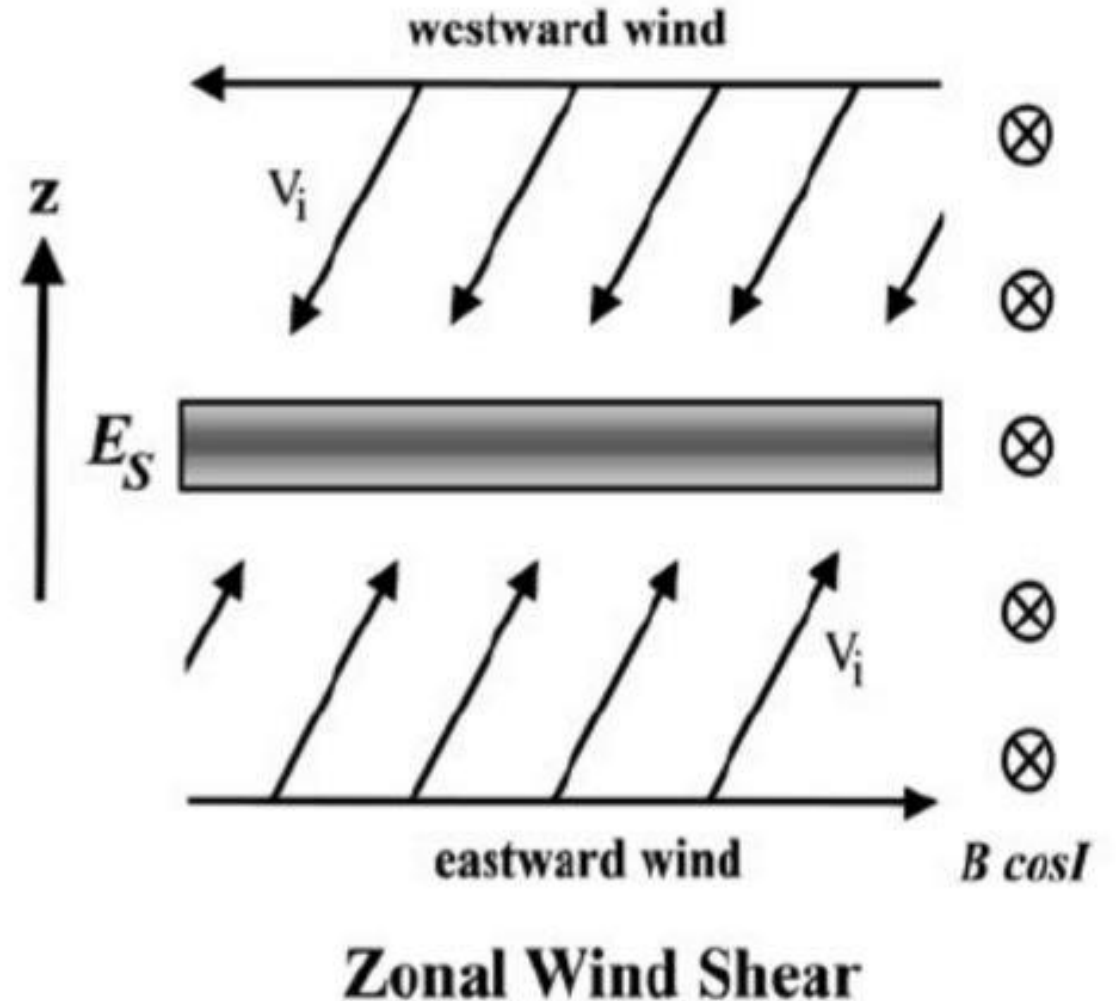
2016 **2716** - arvosana 2.8

2015 **2818** - arvosana 2.3

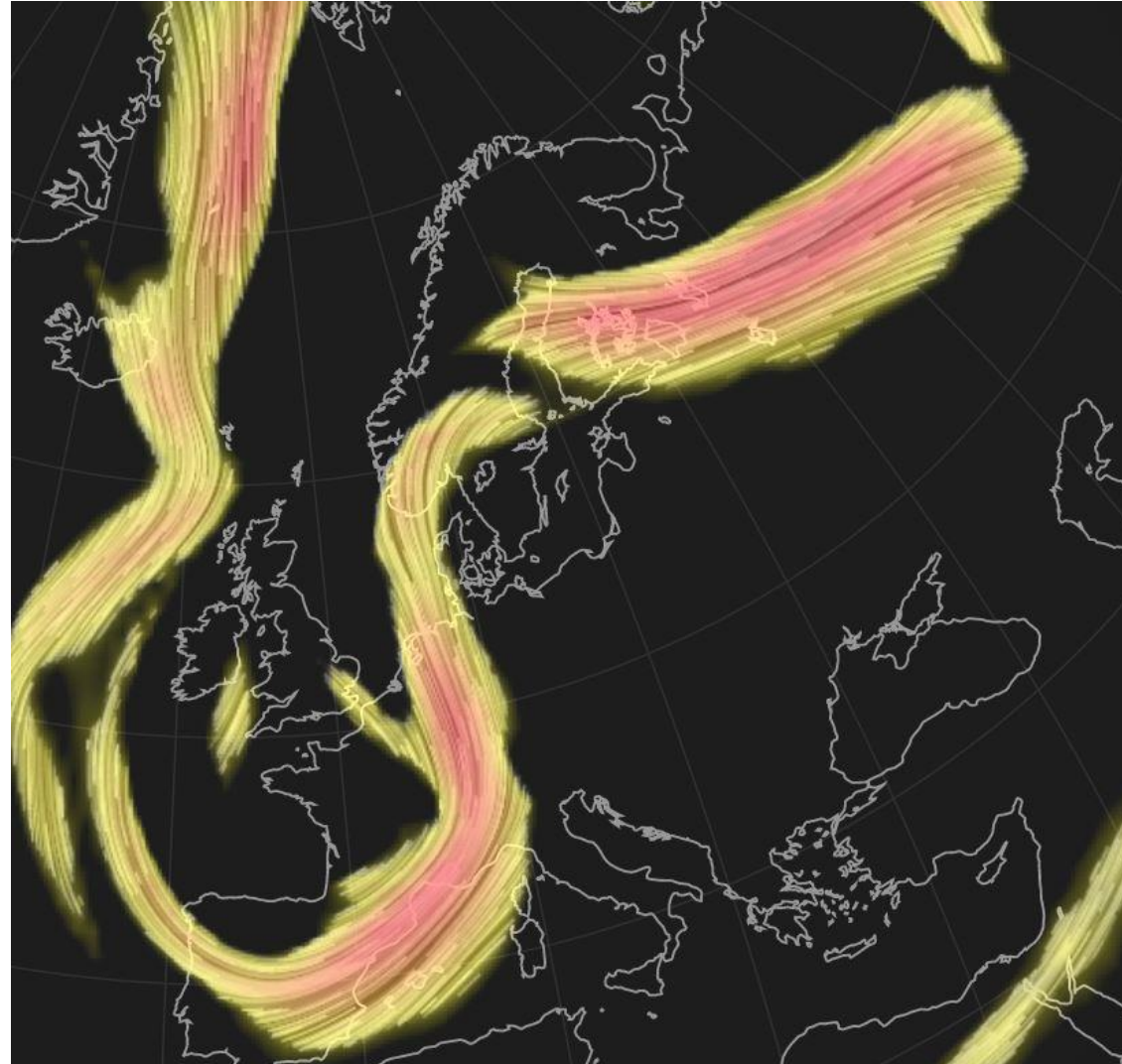
Voiko Essiä ennustaa?

Sporadic E Theories

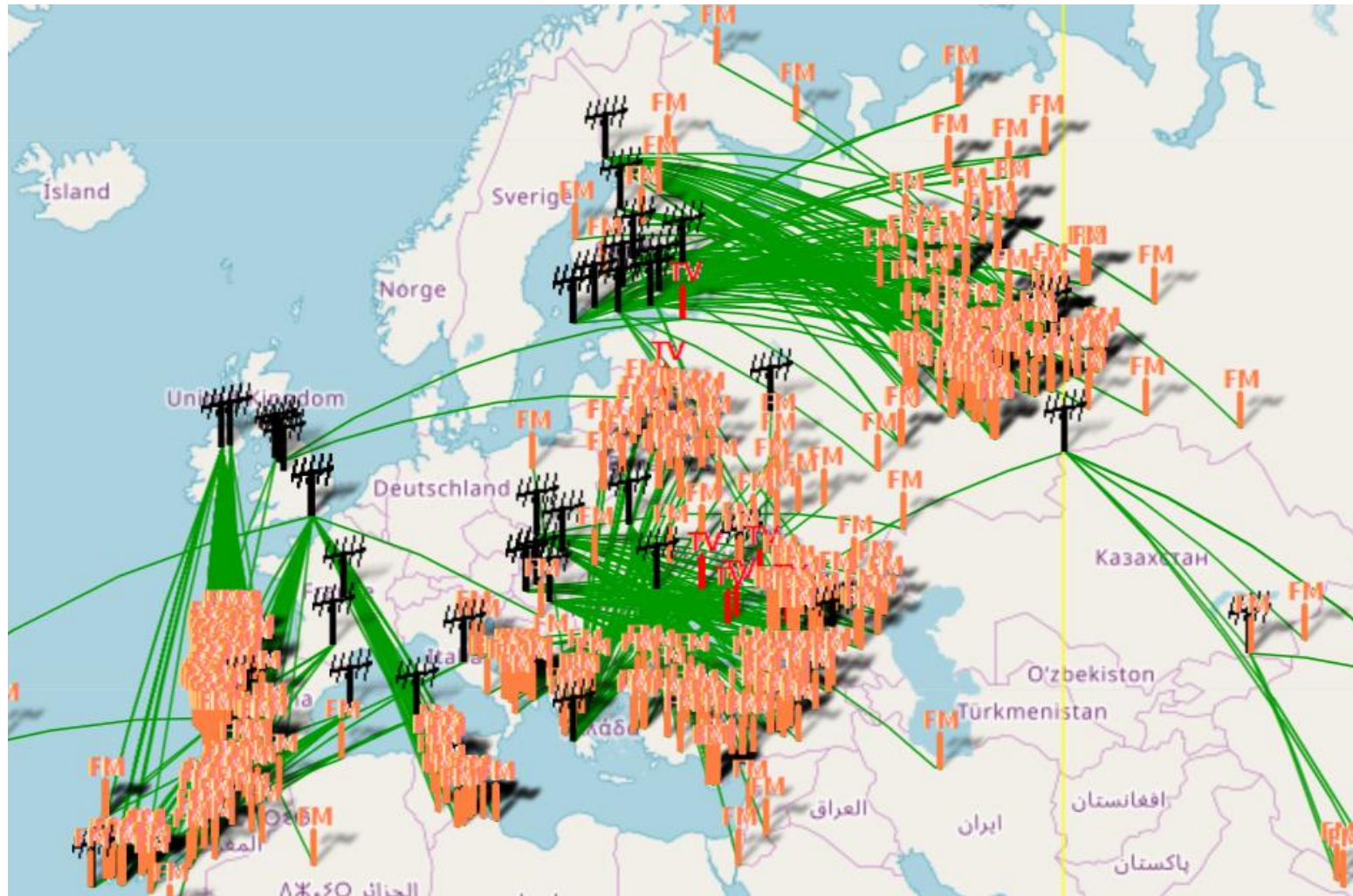
- **Wind shear**
 - More recent research support (X. Yue et al 2015)
- **Meteors**
 - Raw material bringing in Fe+ and Mg+ ions
- **Earth's magnetic field**
 - Strength of horizontal component producing Lorenz force
- **Atmosphere**
 - Some sort of coupling exists especially when:
- **Lightning**
 - Theories abound but no correlation found
 - Part of bigger atmosphere – ionosphere coupling?
- **Planetary waves**
 - Solar activity (maybe through changes in Earth's magnetic field)



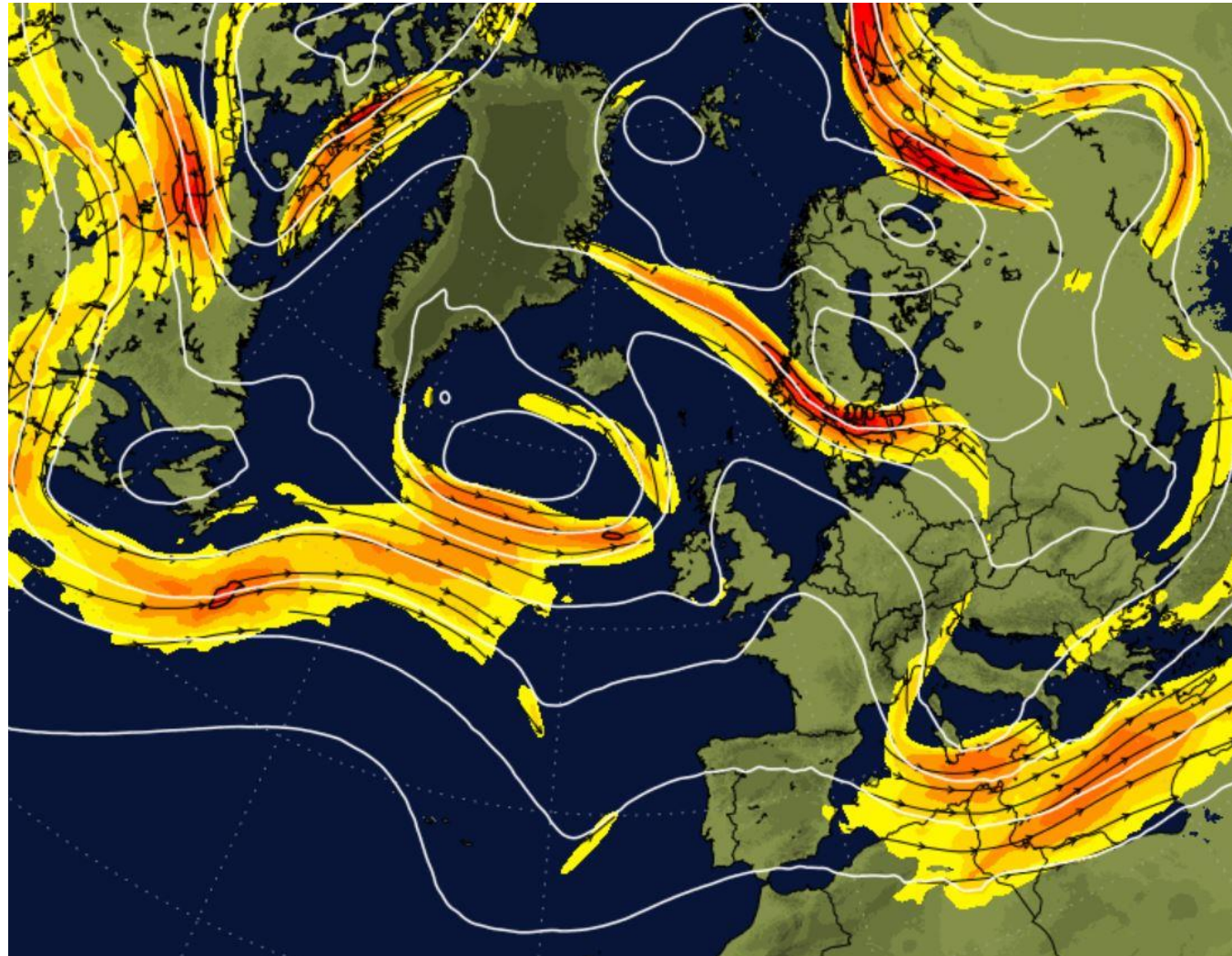
Jet Stream 13 June 2019



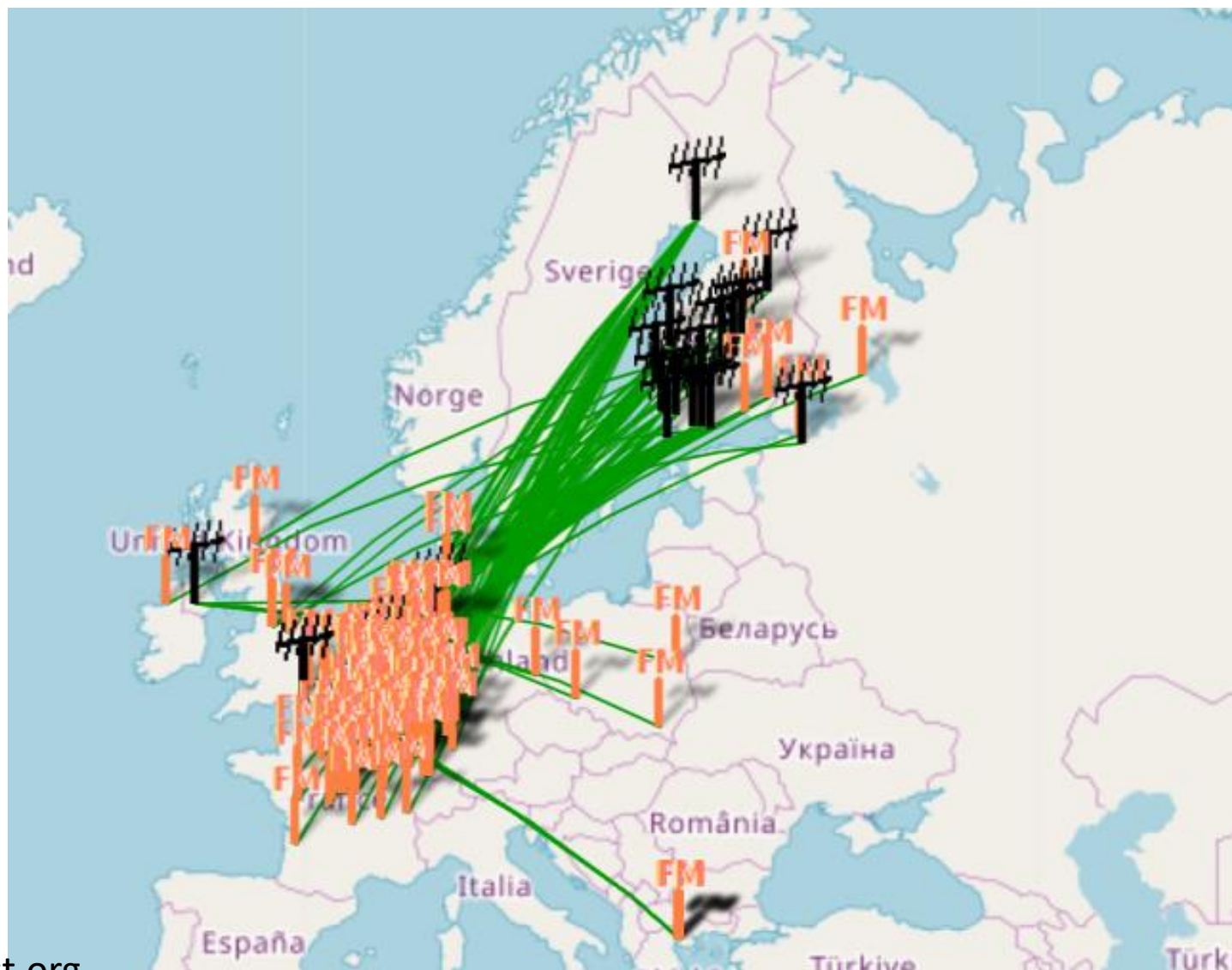
FM Es 13 June 2019



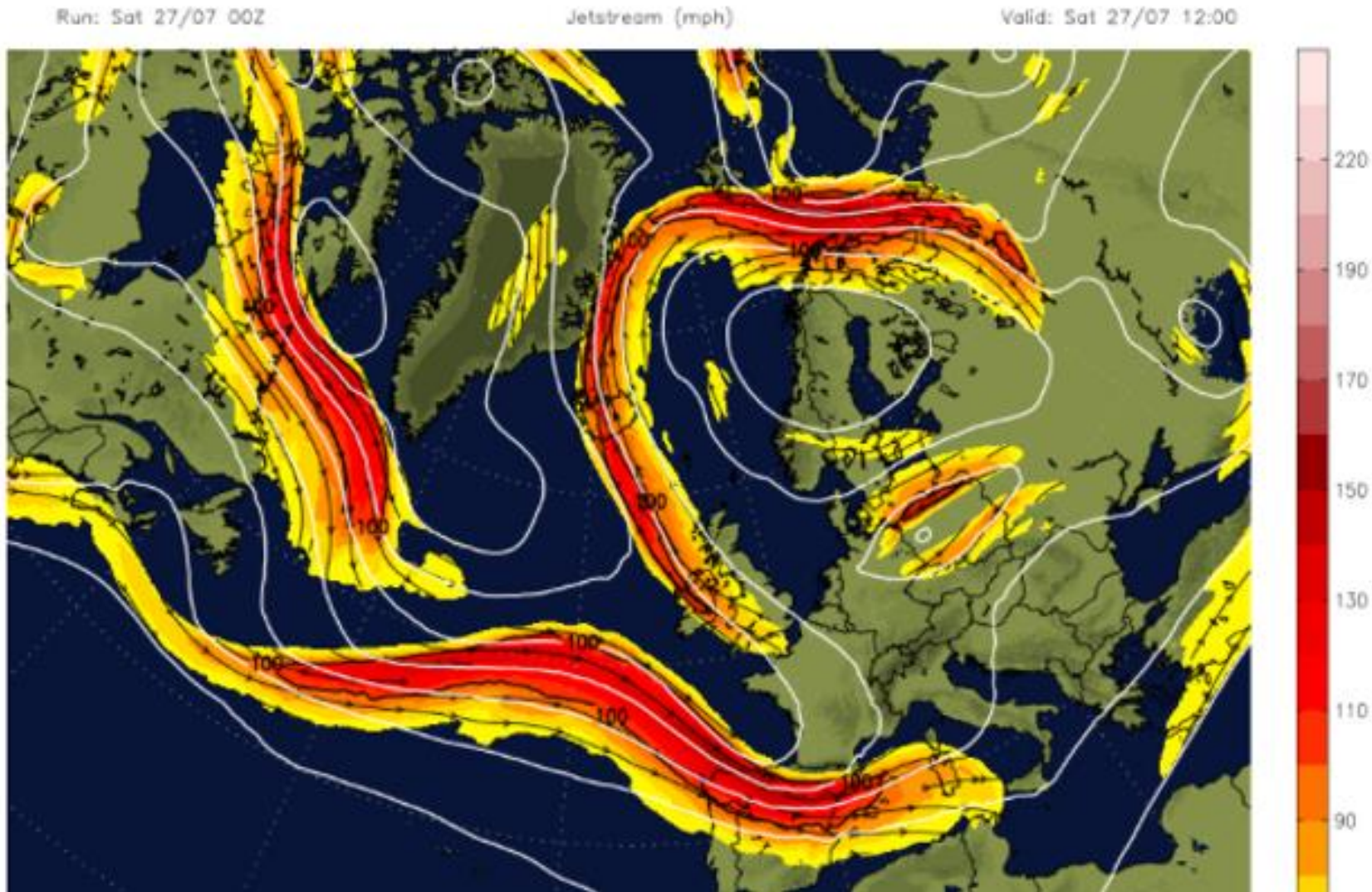
Jet Stream 16 July 2019



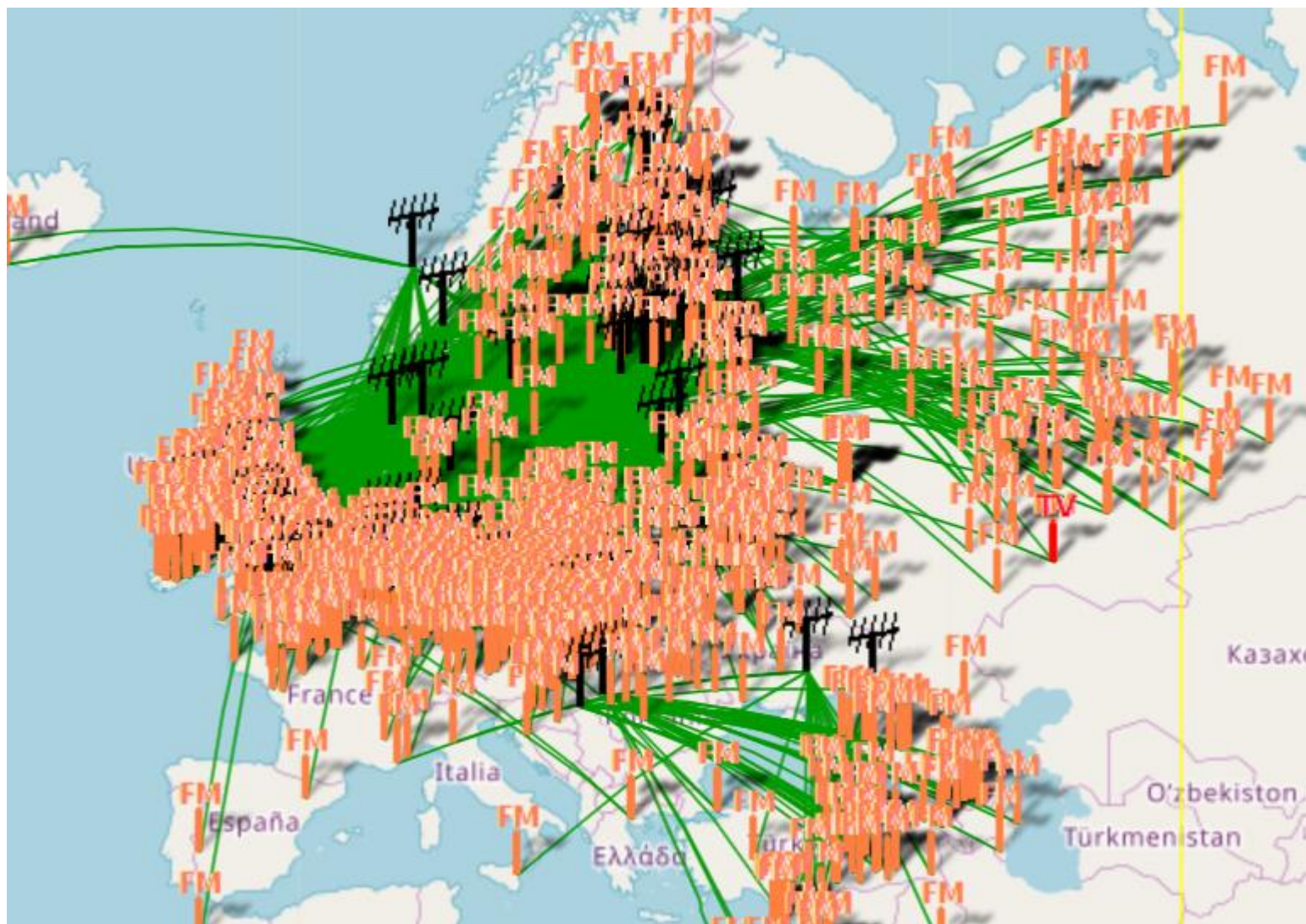
FM Es 16 July 2019



Jet Stream 27 July 2019



FM Es 27 July 2019



Uusi maa UAE

4513 km – “Al-Emarathy” – by MSO 20.6.



Thank you!
jtk@sdxl.org