

LÍFIÐ FYRIR OFAN 50 MHZ

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TF3ML

OKTÓBER 2017

HVER ER ÓLI - TF3ML?

- Forfallin ólæknandi áhugamaður um fjarskipti
- Ég byrjaði 1998 – leyfisbréf númer 240
- Áskorunin heillaði
- Samskiptin voru við fólk á mínum aldri

AFHVERJU HEILLAÐIST ÉG 50 MHZ?

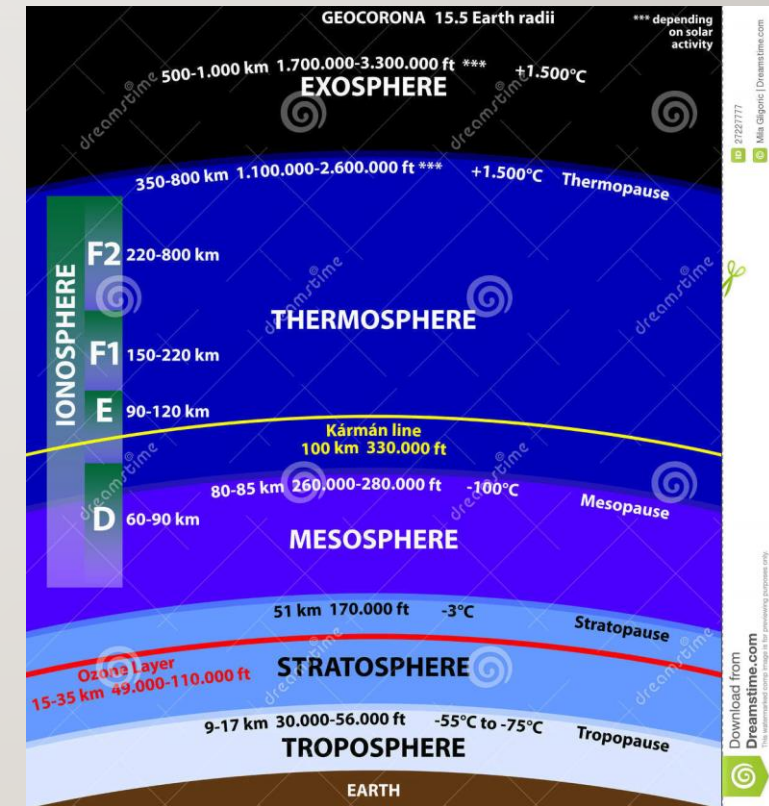
- Annað var ekki í boði í upphafi fyrir mig sem T leyfishafa
- Erfitt tíðnisvið og óútreiknanlegt
- Með árunum fjarlægðist ég HF bandið

HVAÐ ER 50 MHZ?

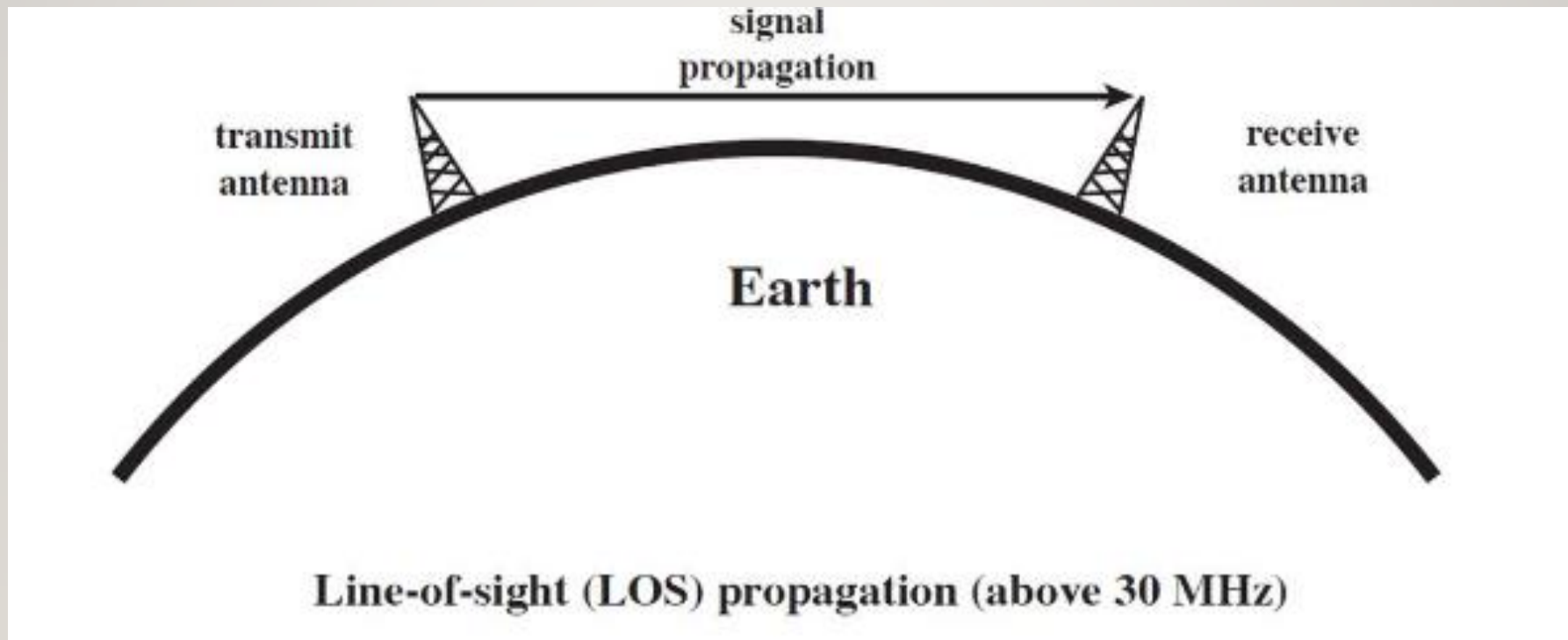
- Er 6 metra band og oft kallað the Magic band
- Áskorunin liggur mest í því að geta notað bandið allt árið

SKILYRÐI TIL NOTKUNAR Á 50 MHZ

- Jarðbylgja (Groundwave)
- Sporatic E
- F2
- Tropo
- Meteor scatter - MS
- Aurora
- Aurora E
- Trans Equatorial Propagation (TEP)
- POLAR
- Earth Moon Earth (EME)

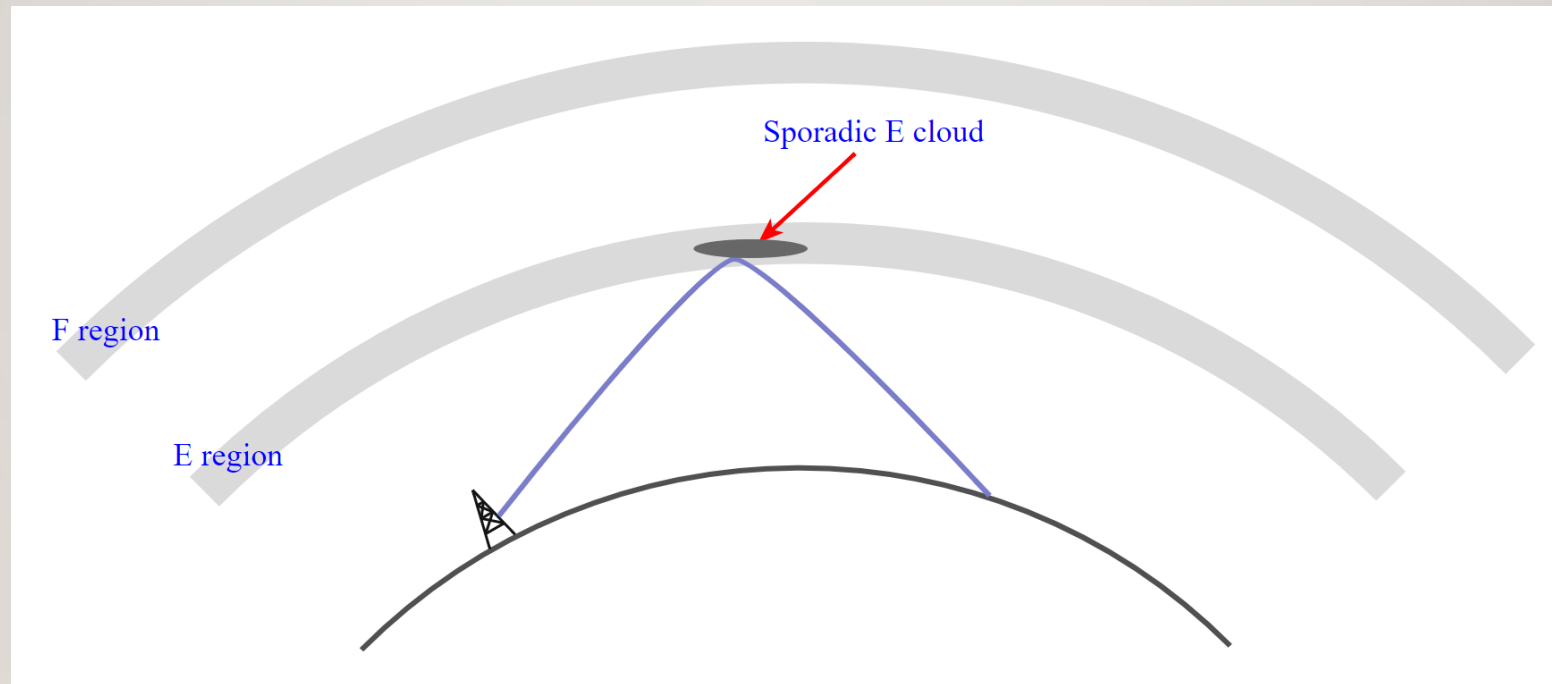


JARÐBYLGJA (GROUNDWAVE)

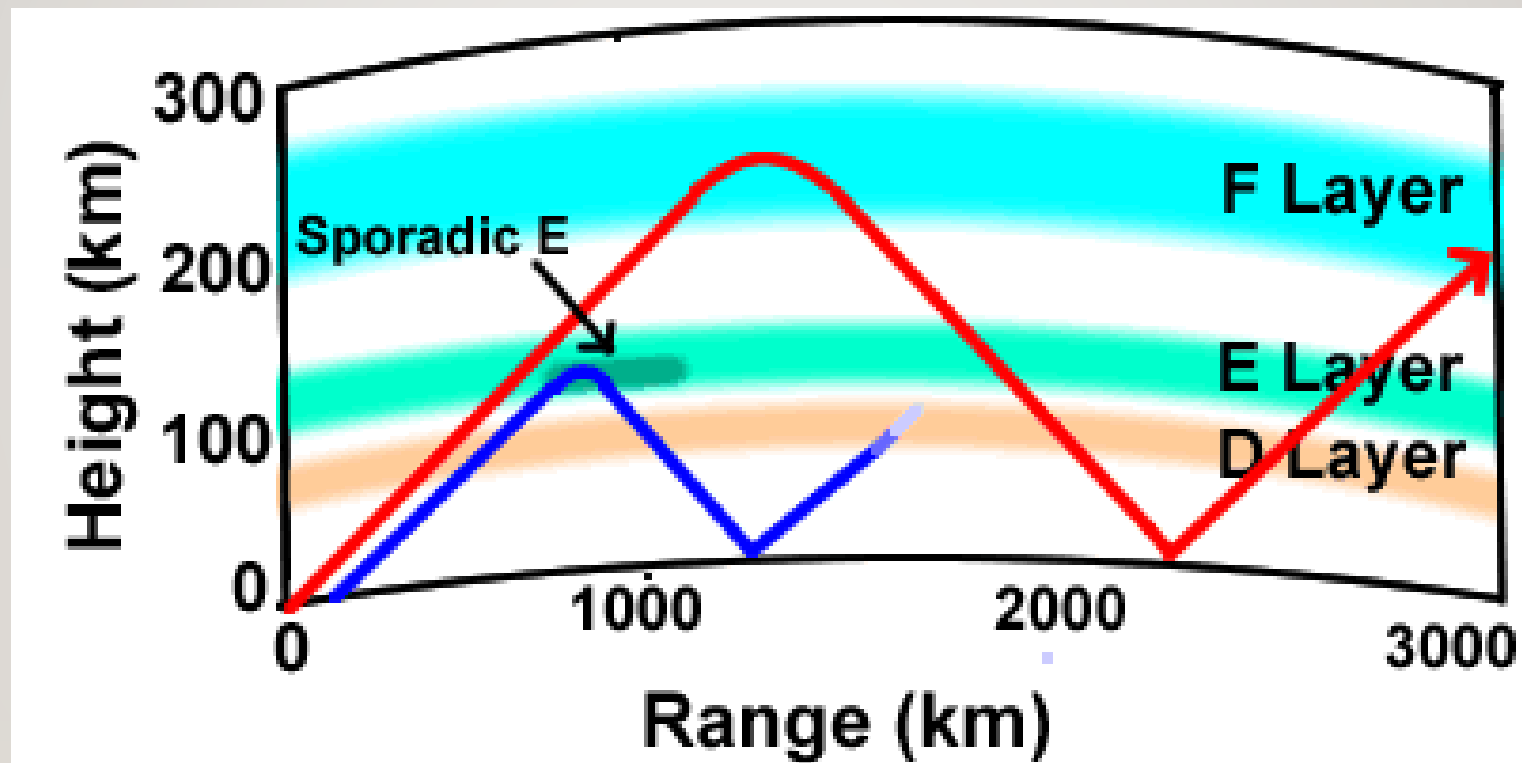


SPORADIC E (ES EÐA 'E SKIP)

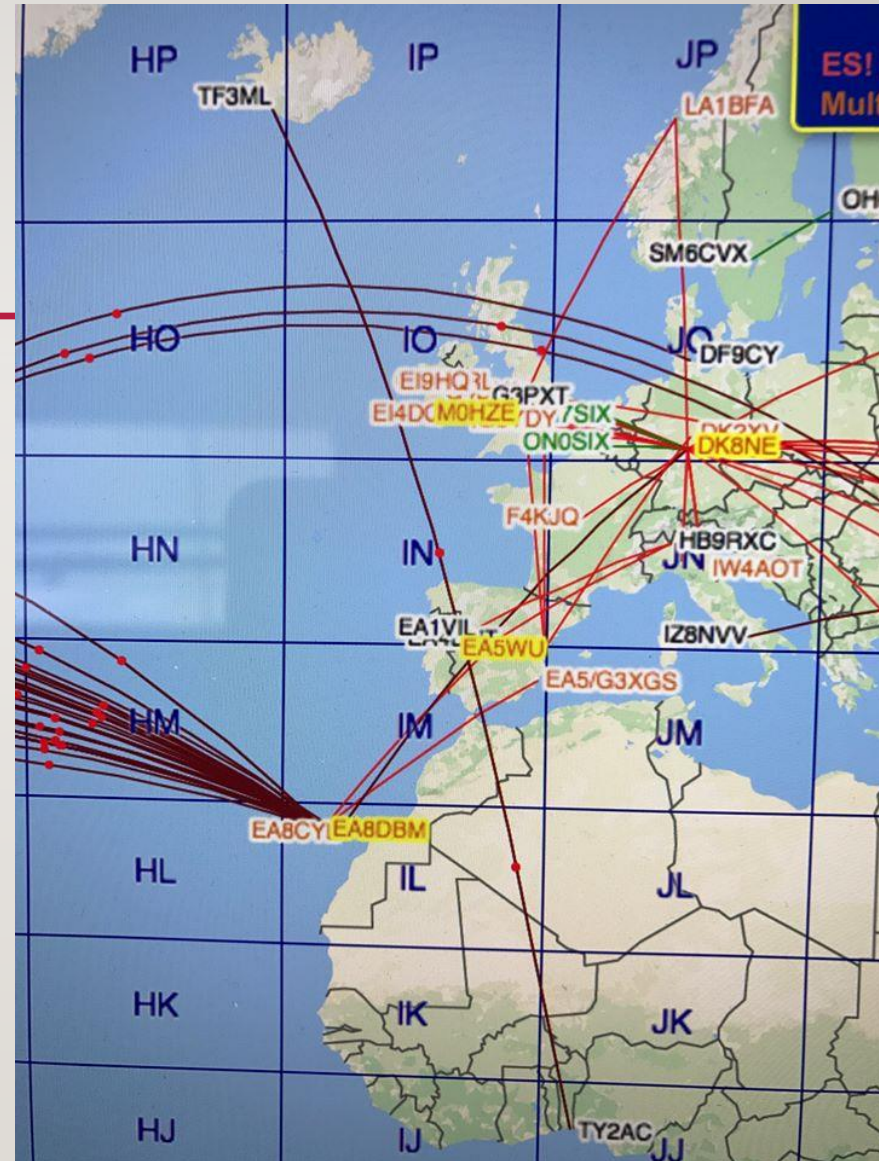
- Ský sem myndast upp í jónalögum í um það bil 90-100 km hæð



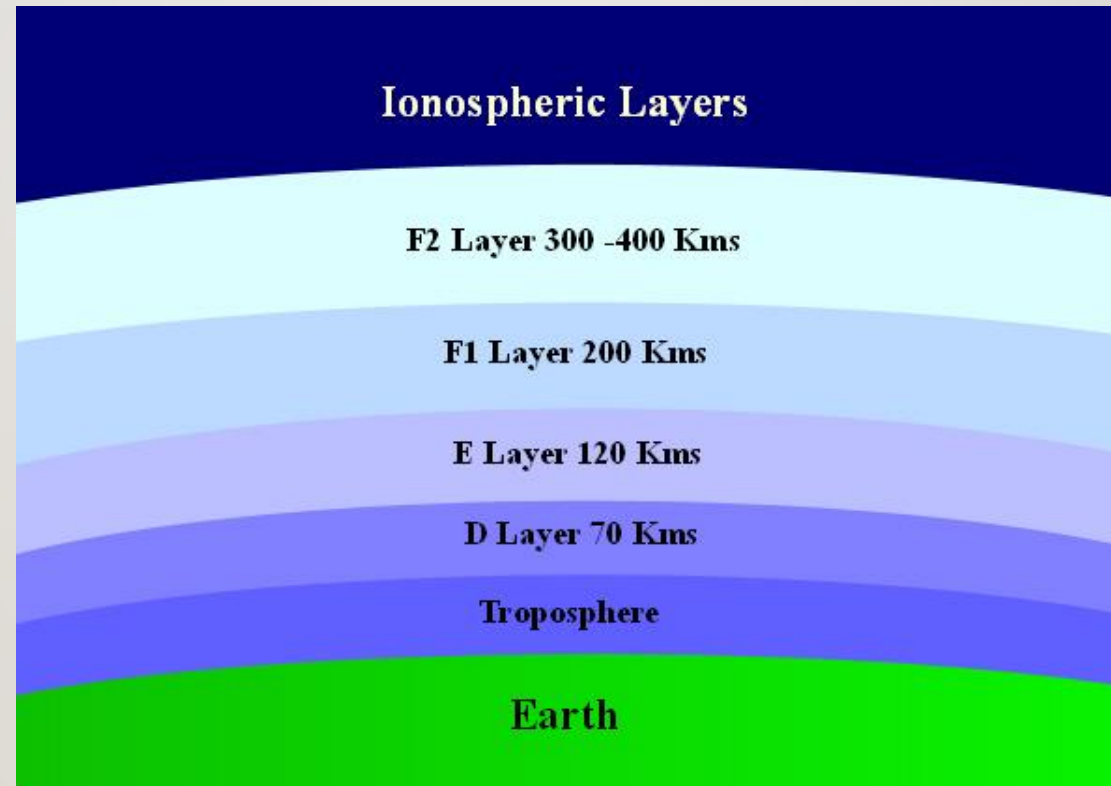
SPORADIC E MULTI HOP



DÆMI UM MULTI HOP

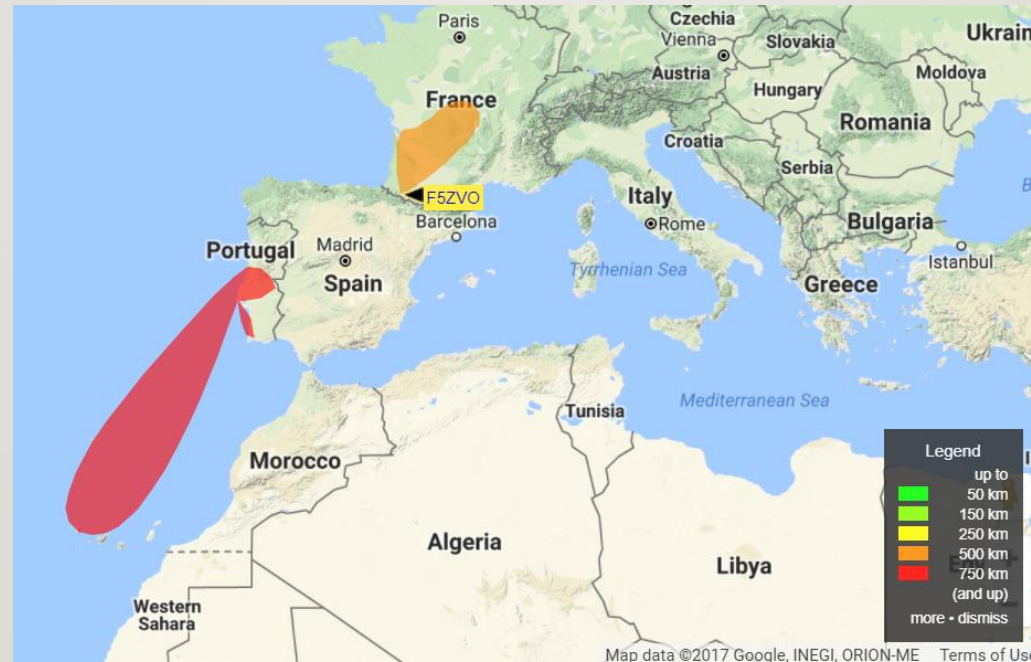


F2

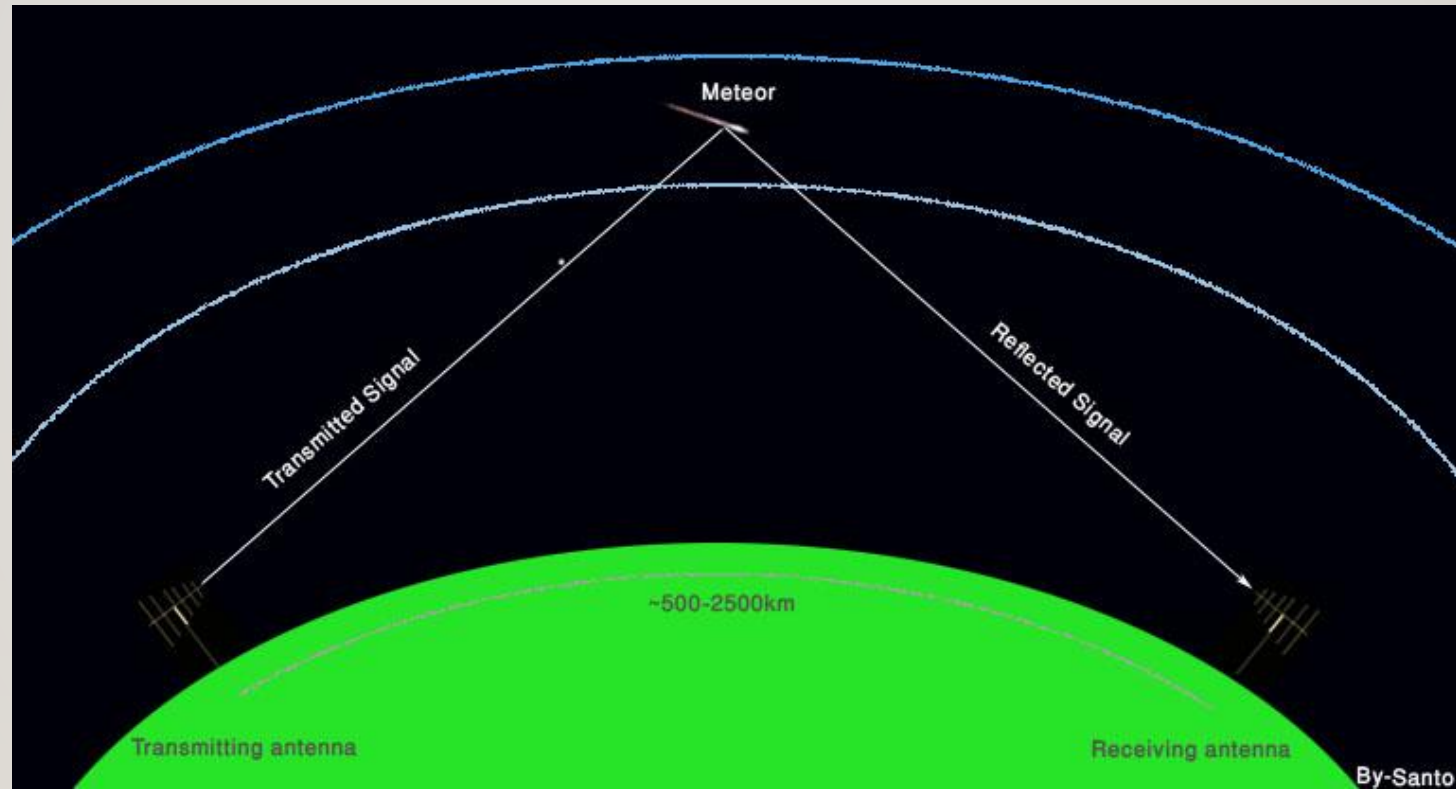


TROPO

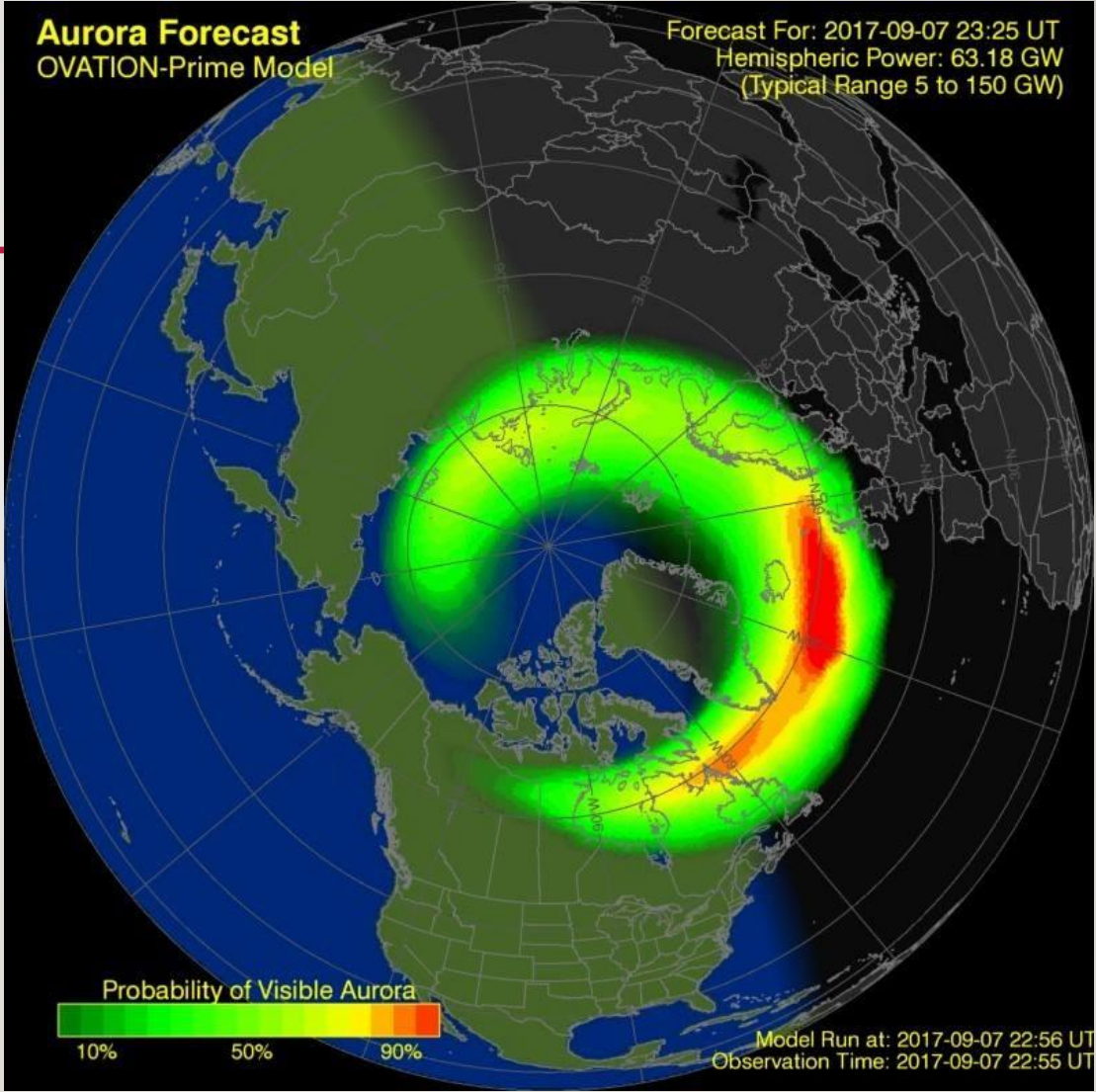
- Tropo skilyrði eru í Troposphere sem eru fyrir neðan Ionosphere



METEOR SCATTER - MS



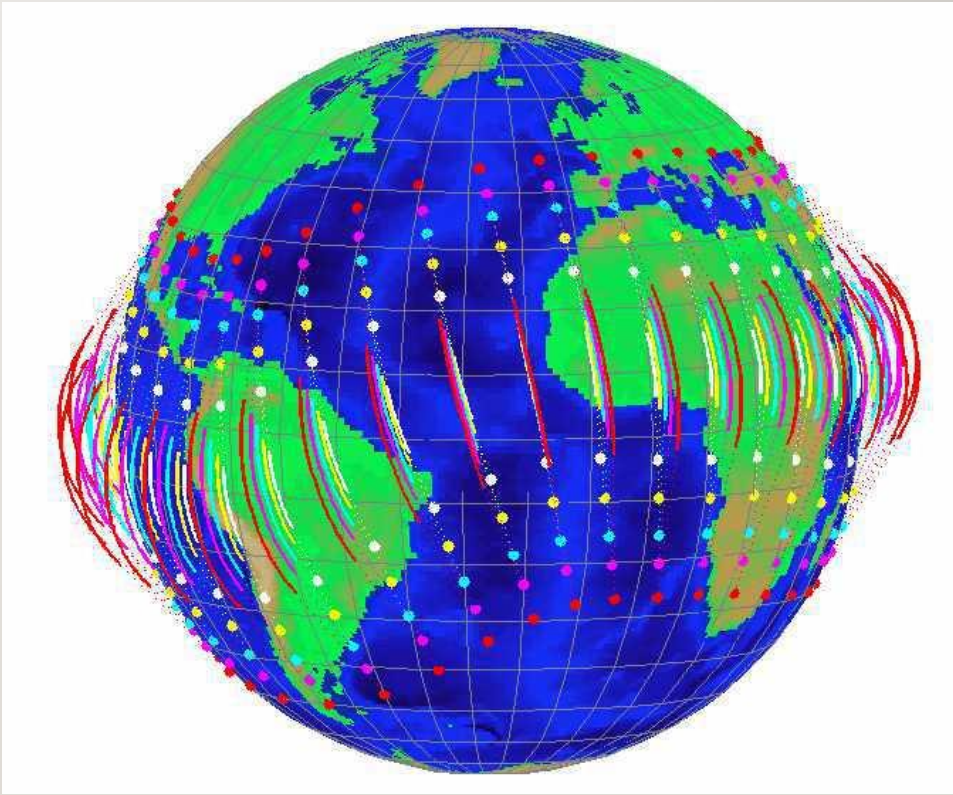
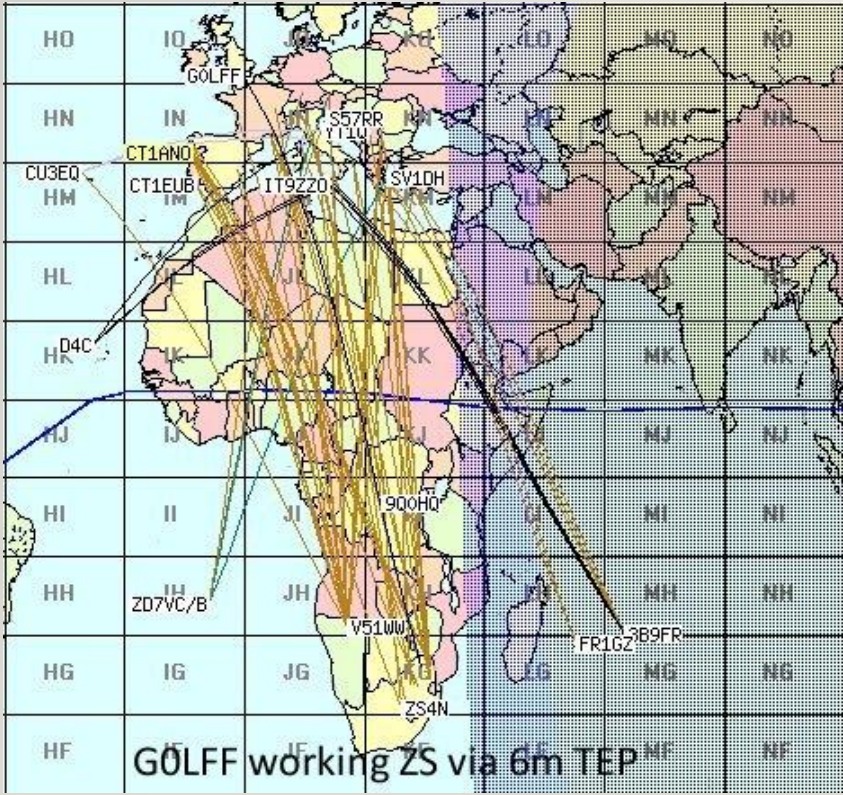
AURORA



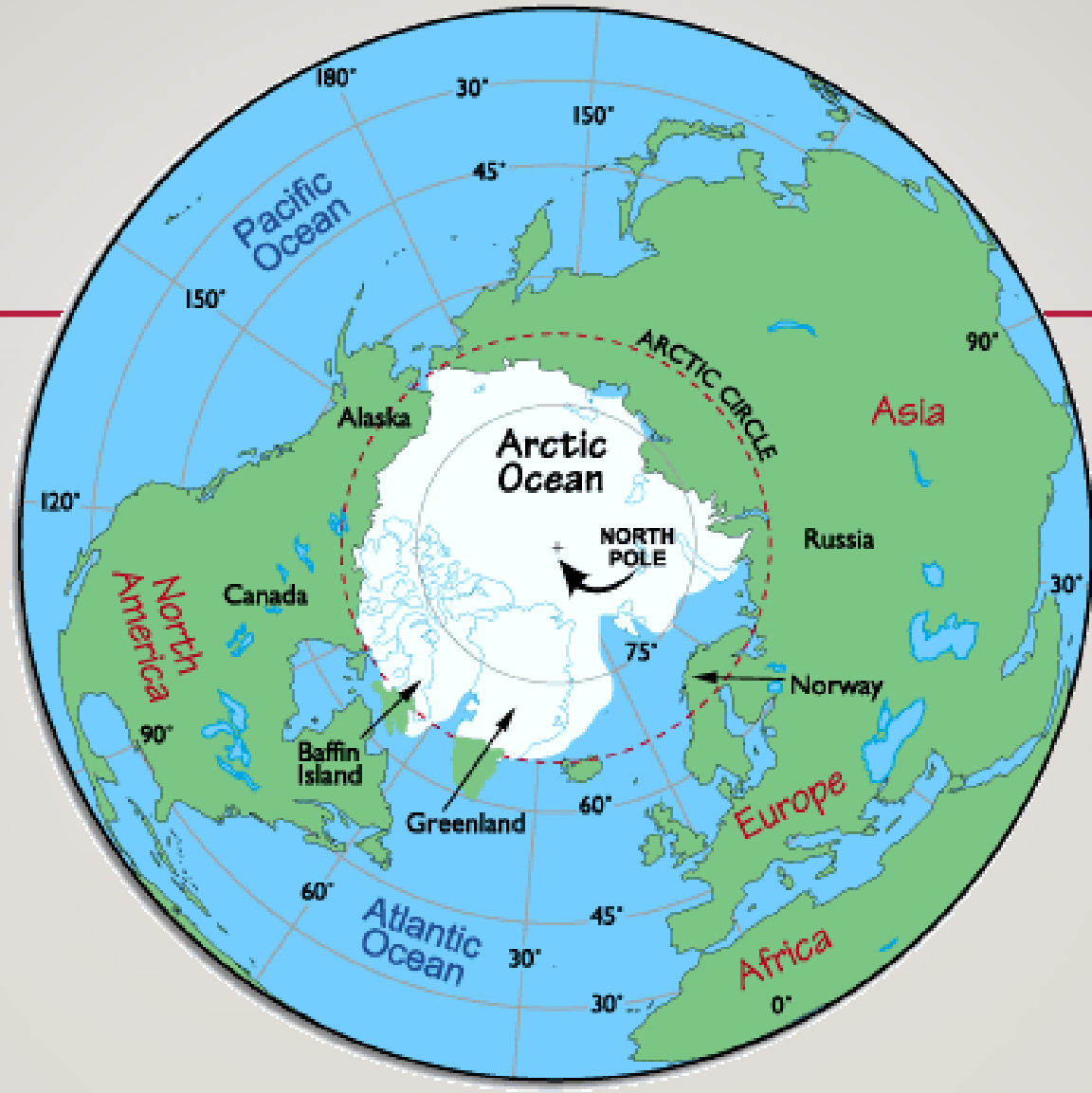
AURORA E



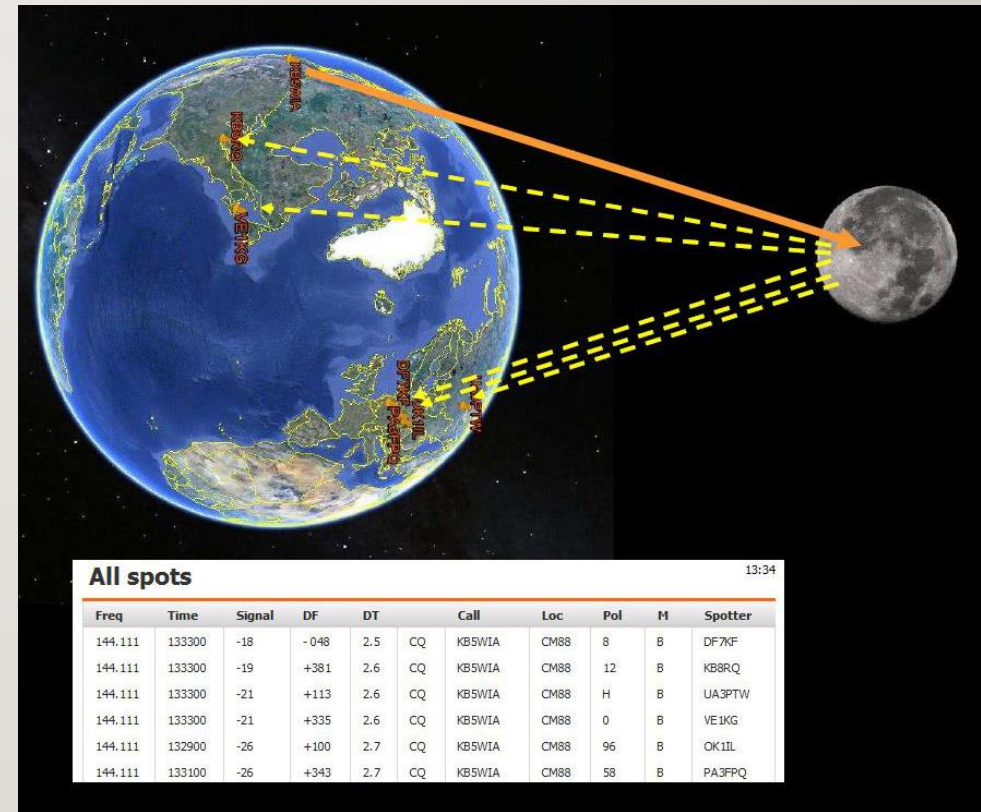
TRANS EQUATORIAL PROPAGATION (TEP)



POLAR



EARTH MOON EARTH (EME)



BAND PLAN – 6 METER BAND (50-52 MHZ)

Frequency	Maximum Bandwidth	Mode	Usage
50.000	500 Hz	Telegraphy exclusive (except Beacon Project)	50.000 - 010 Region 1*
			50.010 - 020 Region 2*
			50.020 - 030 Region 3*
			50.050 CW future international center of activity
50.100			50.090 Intercontinental center of activity
50.100	2 700 Hz	Telegraphy & SSB	50.100 - 130 Intercontinental section
			50.110 Intercontinental center of activity
			50.130 - 200 International section
50.200			50.150 International center of activity
50.200	2 700 Hz	Telegraphy	General usage
50.300			50.285 for crossband

50.300	2 700 Hz	MGM Narrowband Telegraphy	50.305 PSK Center of activity
			50.310 - 320 EME center of activity
50.400			50.320 - 380 MS center of activity
50.400	1 000 Hz	MGM Telegraphy	BEACONS EXCLUSIVE
50.500			50.401 MHz +/- 500Hz WSPR Beacons
50.500	12 kHz	all mode	50.510 SSTV
			50.520 - 540 Simplex FM Internet Voice Gateways
			50.550 Image working frequency
			50.600 RTTY (FSK)
			50.620 - 750 Digital communications
			50.630 Digital Voice (DV) calling
			51.210 - 390 FM/DV Repeater Inputs
			51.410 - 590 FM/DV Simplex
			51.510 FM calling frequency
			51.810 - 51.990 FM repeaters output channels
52.000			

LOFTNET OG KAPLAR

QUAD



YAGI



LFA YAGI



VERTICAL



KAPLAR

- **@50 Mhz.**

Kapall	Loss db/per 100M	Stærð mm.	Average power kw.
RG-58	11.0	4.9	0.3
RG-213	4.8	10.3	1.2
RG-214	4.3	10.8	1.5
Ecoflex 10	2.8	10.2	1.2
Ecoflex 15	2.1	14.6	2.7
1/2 Heliax	1.52	16.2	5.1
7/8 Heliax	0.83	27.2	11.2

SVO FÉKKST LEYFI Á 70 MHZ

- 70 MHz er 4 metra band
- Er mjög svipað og 6 metrarnir nema opnanir verða sjaldnar
- Íslenskir radio amatörar geta fengið heimild til að nota þetta tíðnisvið. Það þarf að sækja um það hjá Póst- og fjarskiptastofnunar. 70.000 til 70.200 MHz með 100 W sendi.