

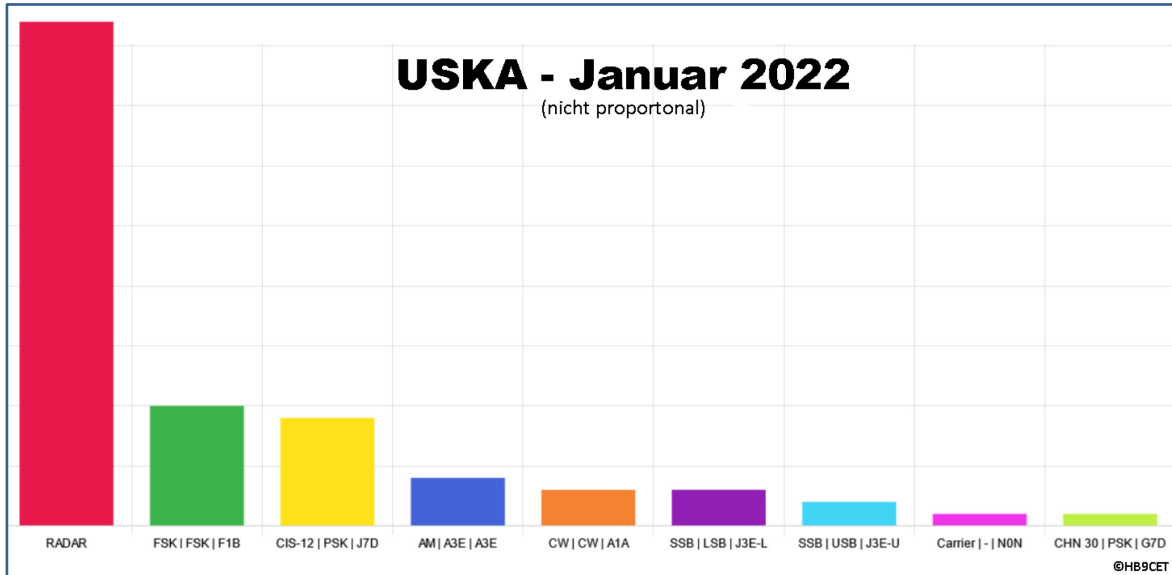


USKA Monitoring Bericht Januar 2022

Wie schon in den Vormonaten zeigte auch der Januar dasselbe Bild: Mit Abstand die meisten Störungen stammten erneut von Überhorizont Radaren (OTHR). Interessanterweise waren kaum Wideband Radare (160 kHz, 10 sps) anzutreffen, wohingegen ab und zu OTHR mit 40 kHz und 10 sps zu

beobachtet waren. (derzeit zunehmend).

Auffällig war auch das altbekannte britische Überhorizont Radar aus Zypern, das vor allem im 15m Band praktisch täglich zu finden ist, seltener auch auf anderen Bändern.



Die Graphik zeigt die häufigsten beobachteten Signale. Die Darstellung ist nicht proportional, da ich ein und denselben Intruder üblicherweise nur einmal festhalte, nicht jede einzelne Beobachtung (viele tx hört man ja fast täglich!) Zum Beispiel: CW auf 21438 kHz aus Sevastopol könnte man täg-

lich eintragen, ebenso die Rundfunkstationen aus ERI und ETH im 40m Band (7110, 7140, 7180 kHz) uam. Damit liessen sich locker Logseiten füllen, ich sehe aber wenig Sinn dafür. Die Angabe "daily, almost daily, often" unter Details sollte eigentlich genügen. ↩

Abbreviations:

aka = also known as | **BC** = Broadcast | **BD** = Baud, or also Burst duration | **BRI** = Burst repetition interval | **BW** = Bandwidth | **ca** = approximate | **CF** = Center frequency | **DF** = Direction finding (radio location) see also TDoA | **FMCW** = frequency modulated continuous wave | **FMOP** = frequency modulated on pulse | **OTHR** = over the horizon radar | **PRC** = CHN People's Republic of China | **RF** = Radio frequency = VFO | **SH** = Shift (Hz) | **sps** = sweeps per second | **TDoA** Time difference of arrival | **ui** = unidentified | **x** or **xxx** is used for unknown/not classified.

Digital transmissions: Frequency mostly center frequency (CF); otherwise indicated (LSB or USB).

| kHz | UTC | DD | MM | ITU | IDENT | MODE | BD / sps | SH / BW | DETAILS |
|--------|------|----|----|-----|-------|-------|-----------|---------|-------------------------------------|
| 7000.0 | 0957 | 17 | 01 | | | J3E-U | | 2k7 | Italian language often |
| 7000.0 | 1829 | 17 | 01 | | | N0N | | 10H | Long lasting carrier |
| 7000.3 | 1234 | 20 | 01 | | | J3E-U | | 2k7 | Italian language, stopped at 1237z. |
| 7002.0 | 1634 | 13 | 01 | | | FMOP | 40 sps | 12k0E | OTHR; Contayner |
| 7006.0 | 1513 | 20 | 01 | | | FMOP | 40 sps | 12k0E | OTHR; Contayner |
| 7024.0 | 1414 | 28 | 01 | | | OTHR | 10 sps | ca 40k | OTHR;weak signal; |
| 7036.0 | 1547 | 11 | 01 | | | F1B | x | 250H | |
| 7037.0 | 1224 | 31 | 01 | | | J7D | 12x120 Bd | 2k70E | CIS12 |
| 7038.0 | 2221 | 30 | 01 | | | OTHR | 50 sps | 10k0E | OTHR; Bursts |



USKA - Bandwacht

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| kHz | UTC | DD | MM | ITU | IDENT | MODE | BD / sps | SH / BW | DETAILS |
|---------------|--------------|----------|----|-----|--------|--------------|-----------|----------|---|
| 7039.3 | 1815 | 10 | 01 | RUS | K | A1A | | 10H | Petropavlovsk; Letter beacon daily |
| 7039.4 | 2342 | 11 | 01 | RUS | M | A1A | | 10H | Magadan; Letter beacon daily |
| 7046.0 | 0909 0830 | 10 11 | 01 | | | F1B | x | 250H | often |
| 7046.0 | 1253 | 31 | 01 | | | F1B | 50 Bd | 200H | often |
| 7049.0 | 1633 | 29 | 01 | | | FMOP | 40 sps | 12k0E | OTHR; Contayner |
| 7050.0 LSB | 1452 | 29 | 01 | | | J3E-L | | ca. 3k0E | Radio War almost daily |
| 7055.0 LSB | 1640 1103 | 01 06 | 01 | | | J3E-L | | ca. 3k0E | RUS-UKR Radio War Voice and music almost daily |
| 7057.0 | 2147 | 02 | 01 | | | OTHR | 50 sps | 10k0E | OTHR; Bursts |
| 7061.0 | 1537 | 08 | 01 | | | FMOP | 40 sps | 12k0E | OTHR; Contayner |
| 7065.0 | 0757 | 31 | 01 | | | J7D | 12x120 Bd | 2k70E | CIS12, idling. stopped at 0800z |
| 7066.0 | 1525 | 29 | 01 | | | FMOP | 40 sps | 12k0E | OTHR; Contayner |
| 7085.0 | 1729 | 29 | 01 | | | FMOP | 40 sps | 12k0E | OTHR; Contayner |
| 7092.0 | 2309 | 27 | 01 | | | FMOP | 40 sps | 12k0E | OTHR; Contayner |
| 7094.0 | 2354 | 05 | 01 | | | FMOP | 40 sps | 12k0E | OTHR; Contayner |
| 7097.0 | 1806 | 21 | 01 | | | FMOP | 40 sps | 12k0E | OTHR; Contayner |
| 7098.0 | 1658 | 14 | 01 | | | OTHR | 50 sps | 10k0E | OTHR; Bursts |
| 7099.0 | 1225 | 28 | 01 | | | F1B | 75 Bd | 200H | |
| 7110.0 | 1656 1628 | 05 16 | 01 | ETH | | A3E | | ca 9k0E | BC: Radio Ethiopia daily |
| 7111.0 LSB | 2305 | 27 | 01 | CHN | | G7D PSK-4 | 30x60 Bd | ca 2k50E | CHN30 (PRC30); Burst system; Preamble and pilot tone at 450Hz |
| 7112.0 | 0923 | 14 | 01 | | | J7D | 12x120 Bd | 2k70E | CIS 12; idling only |
| 7117.0 | 1715 | 28 | 01 | | | FMOP | 40 sps | 12k0E | OTHR; Contayner |
| 7119.0 | 2136 | 02 | 01 | | | FMOP | 40 sps | 12k0E | OTHR; Contayner |
| 7119.0 | 2315 | 27 | 01 | | | J7D | 12x120 Bd | 2k70E | CIS 12 |
| 7122.0 | 0741 | 27 | 01 | | | F1B | 75 Bd | 250H | |
| 7127.0 | 1554 | 17 | 01 | | | FMOP | 40 sps | 12k0E | OTHR; Contayner |
| 7131.0 | 1625 | 11 | 01 | | | OTHR | 50 sps | 10k0E | OTHR; Bursts |
| 7140.0 | 1639 1737 | 01 29 | 01 | ERI | VOBM 1 | A3E | | ca 9k0E | BC: Voice of the broad Masses 1 almost daily |
| 7145.0 | 1851 | 24 | 01 | | | OTHR | 50 sps | 10k0E | OTHR; Bursts |
| 7152.0 | 2140 | 02 | 01 | | | OTHR | 50 sps | 10k0E | OTHR; Bursts |
| 7158.0 | 1557 | 17 | 01 | | | OTHR | 50 sps | 10k0E | OTHR; Bursts |
| 7159.0 | 0907 | 18 | 01 | | | F1B | x | 200H | |
| 7165.0 | 2131 | 02 | 01 | | | FMOP | 40 sps | 12k0E | OTHR; Contayner |
| 7172.0 | 1638 | 01 | 01 | | | FMOP | 40 sps | 12k0E | OTHR; Contayner; long lasting |
| 7184.0 | 1459 | 06 | 01 | | | OTHR | 50 sps | 10k0E | OTHR; Bursts |
| 7186.0 | 1549 | 08 | 01 | | | J7D | | 2k70E | CIS 12; submode idling; additional carrier at 7084 kHz |
| 7192.1 | 1601 | 16 | 01 | | | F1B | x | 340H | Short Bursts only |
| 7193.0 | 0943 | 13 | 01 | | RDL | F1B F1A | 50 Bd | 200H | FSK; TDoA: Kaliningrad |
| 7198.0 | 1005 | 29 | 01 | | | J7D | 12x120 Bd | 2K70E | CIS 12 |
| 7200.0 | 1039 | 05 | 01 | | | A3E | | | Female voice; partially in 40m band |
| 14056.0 | 0734 | 13 | 01 | | | J7D | 12x120 Bd | 6k70E | CIS 12 in DSB mode |
| 14127.0 | 0953 | 29 | 01 | | | OTHR | 10 sps | 40k0E | OTHR |
| 14135.0 | 0925 | 28 | 01 | | | OTHR | 10 sps | 40k0E | OTHR |
| 14144.0 | 0819 | 11 | 01 | | | OTHR | 50 sps | 10k0E | OTHR; Bursts |
| 14177.0 | 1008 | 05 | 01 | | | FMOP | 40 sps | 12k0E | OTHR; Contayner |



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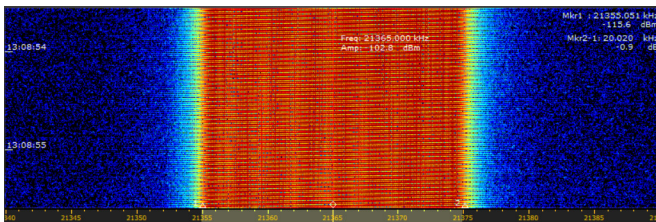
| kHz | UTC | DD | MM | ITU | IDENT | MODE | BD / sps | SH / BW | DETAILS |
|---------|--------------|----------|----|-----|---------|------------|------------------|---------|---|
| 14183.0 | 1052 | 06 | 01 | | | FMOP | 40 sps | 12k0E | OTHR; Contayner |
| 14209.0 | 0917 | 15 | 01 | | | OTHR | 50 sps | 10k0E | OTHR; Bursts |
| 14270.0 | 0752 | 13 | 01 | | | J7D | 12x120 Bd | 2K70E | CIS 12 |
| 14280.0 | 1012 | 05 | 01 | | | A3E | | ca 10k | Female voice: encrypted msgs (figures); Russian language often |
| 14296.0 | 0952 | 17 | 01 | | | OTHR | 66.66 | 10k0E | OTHR; Bursts |
| 14311.0 | 0813 | 31 | 01 | | | OTHR | 66.66 | 10k0E | OTHR; Bursts |
| 14319.0 | 1100 | 14 | 01 | | | OTHR | 66.66 | 10k0E | OTHR; Bursts |
| 14325.0 | 0903 | 10 | 01 | | | OTHR | 61 sps | 10k0E | OTHR; Bursts |
| 14344.0 | 0837 | 27 | 01 | | | F1B | x | 250H | |
| 14344.0 | 0921 | 28 | 01 | | | OTHR | 50 sps | 10k0E | OTHR; Bursts |
| 14345.0 | 0844 | 10 | 01 | | | FMOP | 41 sps | 10k0E | OTHR; Bursts |
| 18170.0 | 1039 | 13 | 01 | | | FMCW | 50 sps | 20k0E | OTHR; UK base Cyprus; partially in 17m band |
| 21115.0 | 1019 | 14 | 01 | | | FMCW | 50 sps | 20k0E | OTHR; UK base Cyprus |
| 21115.0 | 1443 | 29 | 01 | | | FMOP | 40 sps | 12k0E | OTHR; Contayner |
| 21118.0 | 1020 | 26 | 01 | | | OTHR | 50 sps | 10k0E | OTHR; Bursts |
| 21122.0 | 1211 | 29 | 01 | | | FMOP | 40 sps | 12k0E | OTHR; Contayner |
| 21125.0 | 1011 | 02 | 01 | | | FMCW | 50 sps | 20k0E | OTHR; UK base Cyprus |
| 21129.0 | 0821 | 27 | 01 | | | FMCW | | 10k0E | OTHR; Bursts; " |
| 21130.0 | 0842 | 27 | 01 | | | FMCW | 50 sps | 20k0E | OTHR; UK base Cyprus |
| 21145.0 | 1044 | 11 | 01 | MRC | various | MFSK 8 J7D | 125 | 1k75 | ALE; MIL188-141A often |
| 21155.0 | 0935 | 11 | 01 | | | FMOP | 40 sps | 12k0E | OTHR; Contayner |
| 21157.0 | 1052 | 14 | 01 | | | FMOP | 40 sps | 12k0E | OTHR; Contayner |
| 21158.0 | 1036 | 26 | 01 | | | FMOP | 40 sps | 12k0E | OTHR; Contayner |
| 21330.0 | 0914 | 18 | 01 | | | FMCW | 50 sps | 20k0E | OTHR;UK-base Cyprus |
| 21369.0 | 0955 | 20 | 01 | | | OTHR | 66.66 sps | 10k0E | OTHR; Bursts; "Foghorn" |
| 21438.0 | 0902 | 10 | 01 | | RCV | A1A | | 10H | TDoA: Area of Sevastopol daily |
| 28860.0 | 0834 0959 | 11 28 | 01 | IRN | | ? | 150 + 313 sps | ca 45k | OTHR; Bursts; long lasting, sweep rate alternating almost daily |

Errors and omissions excepted

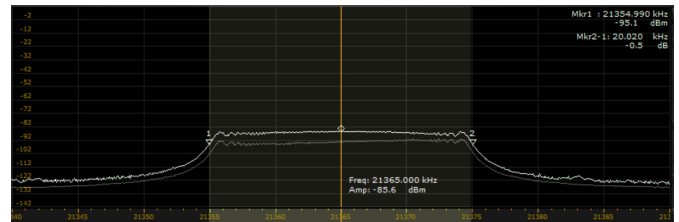
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USKA Monitoring System (Intruder watch)
<https://www.uska.ch>

Member of IARU Monitoring System R1
<https://www.iaru-r1.org/spectrum/monitoring-system/>



OTHR: FMCW 50 sweeps/s (sps); BW 20 kHz Sonagram



dt0.Spectrum; (Darstellung mit Perseus SDR)

Latest NEWS, soeben eingetroffen, TDoA mit KIWI Netzwerk:

TDoA outside of ham bands or time stations is suspended