



# Frequencies Monitored at ON4AA

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## LF

**Table 1: Monitored LF frequencies**

frequency	call sign	power	location	description
77.5 kHz	<a href="#">DCF77</a>	50 kW	<a href="#">Mainflingen, Germany</a>	longwave time signal and standard-frequency
183 kHz	<a href="#">Europe 1</a>	2 MW	<a href="#">Felsberg-Berus, Germany</a>	French LW broadcast station <a href="#">[stream]</a>
234 kHz	<a href="#">RTL</a>	2 MW	<a href="#">Beidweiler, Luxemburg</a>	French LW broadcast station <a href="#">[stream]</a>

## MF

**Table 2: Monitored MF frequencies**

frequency	call sign	power	location	description
1.933 MHz	01h–04h	English	G & GW	<a href="#">[webSDR]</a>

## HF

**Table 3: Monitored HF frequencies**

frequency	CET	language	stations	description
3.603 MHz	Sundays 09h–11h	Dutch	PA & ON	<a href="#">ZX-ronde [webSDR]</a>
3.609 MHz	09h15–10h15	Dutch	ON	Belgisch ochtendnet <a href="#">[webSDR]</a>
3.630 MHz	18h–20h	Dutch	PA & ON	Nederlandstalig net <a href="#">[webSDR]</a> <a href="#">[TeamSpeak]</a>
3.630 MHz	00h–04h	Dutch	PA & ON	Nachtuilen <a href="#">[webSDR]</a>
3.697 MHz	01h–05h	English	G & GW	<a href="#">[webSDR]</a>
3.7475 MHz	18h15	German	HB3 & HB9	<a href="#">Berner Runde [webSDR]</a>
14.317 MHz	12h30	German	HB9	Auslandschweizer Runde <a href="#">[webSDR]</a>

# VHF

**Table 4: Monitored VHF frequencies**

frequency (MHz)	shift (MHz)	call sign	access tone (Hz)	CTCSS out (Hz)	EchoLink	location	description
145.2375		ON0LIL	131.8				EchoLink gateway
145.2750		ON4RST				Sint- Truiden	UBA section Saffraanberg
145.3125		MLB				Genk	UBA section Midden-Limburg
145.3875		ON7BB					local hams from Opglabbeek
145.6625	-0.6	ON0NL	131.8	131.8		Peer	repeater Noord-Limburg
145.6500	-0.6	ON0LG	74.4	74.4		Seraing	repeater Liège
145.7125	-0.6	ON0DST	131.8	131.8	179078 (31)	Meldert- Lummen	repeater Diest
145.7250	-0.6	PI3ZLB	71.9	71.9		Geleen	repeater Geleen
145.7625	-0.6	ON0AN	67.0	67.0		Antwerpen	repeater Antwerpen
145.7750	-0.6	ON0LB	131.8 & 1750	131.8		Vreren	repeater Limburg [stream]
145.7875	-0.6	DB0WA	94.8	94.8	652436	Aachen	repeater Aachen

# UHF

**Table 5: Monitored UHF frequencies**

frequency (MHz)	shift (MHz)	call sign	access tone (Hz)	CTCSS out (Hz)	EchoLink	location	description
430.1250	+1.6	PI2NOS			430125	multiple locations; Sittard	Dutch interconnected repeater network [bargraph] [map]
438.9000	-7.6	ON0LB	131.8 & 1750	131.8	195950 (33)	Vreeren	repeater Limburg
439.0125	-7.6	ON0TB	131.8		3999 (41)	Robertville	repeater Botrange
439.1000	-7.6	ON0TLO	131.8	131.8	429437	Scherpenheuvel	repeater Tessenderlo
439.1500	-7.6	ON0LN	131.8	131.8	394137 (34)	Ophoven, Oudsbergen	analog repeater Limburg-Noord (also digital in colocation)
439.3500	-7.6	ON0AN		131.8	45573 (21)	Antwerpen	repeater Antwerpen

**Table 6: Monitored UHF DVB-T1 & DVB-T2 channels**

frequency	ch.	pol.	DVB-T modulation	Cell ID	CNR	SS	RSS	Q	TV programs	transmitter	coverage
514 MHz	26	dir. V	T2 64 QAM FEC 3/5	27136	18 dB	-81 dBm	23%	100%	Das Erste, One, WDR, Arte	Aachen-Stolberg, 40 kW	map
538 MHz	29	dir. V	T2 64 QAM FEC 3/5	586	20 dB	-80 dBm	25%	100%	ZDF, ZDFinfo, ZDFneo, KiKA, 3sat	Aachen-Stolberg, 20 kW	map
570 MHz	33	dir. V	T2 256 QAM FEC 1/2	0	22 dB	-77 dBm	28%	100%	NPO1, NPO1, NPO3, L1, OB	Sittard, 20 kW	map
586 MHz	35	dir. V	T2 64 QAM FEC 1/2	28416	15 dB	-85 dBm	18%	0%	Phoenix, Tagesschau24, SWR, MDR, NDR	Aachen-Stolberg, 20 kW	map
666 MHz	45	H	T1 16 QAM FEC 3/4	0	18 dB	-81 dBm	23%	100%	La Une, La Deux, La Trois/Ouftivi, Euronews	Bonnelles, Liège, 20 kW	map PDF

DVB-T equipment:

- location: Hasselt, Belgium, eastern rim of historical city centre
- vertical antenna:
  - 10 element Yagi Uda Unispectra Y-1113UF/LTE
  - 13.5 dBi gain
  - outdoor, 13 m above ground
  - aimed at Sittard with a clear view

- horizontal antenna:
  - 10 element **log-periodic Unispectra L20U**
  - 8 dBi gain
  - outdoor, 10 m above ground
  - aimed at Bonnelles, Liège with an obstructed view
- -4 dB **Kathrein KES 21** passive splitter used as a combiner
- coax: about 30 m **Hirschmann KOKA 799**
- receiver: **Samsung GX-MB540TL**

**Table 7: GPS,  
GLONASS & Galileo**

frequency	signal
1575.42 MHz	<b>L1C</b>

Here is a **live map of overhead GPS satellites**.

## X-band

**Table 8: Monitored satellite positions**

position	name	origin of channels
<b>5.0° W</b>	Eutelsat 5 W	France
<b>13.0° E</b>	Hot Bird	Italy, Switzerland
<b>19.2° E</b>	Astra 1	Germany, Spain
<b>23.5° E</b>	Astra 3	Belgium, Netherlands
<b>28.2° E</b>	Astra 2	UK

For lining out a satellite dish at your specific location, use this **satellite look angle calculator**.



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