

HF Doppler Sounding Experiment in Japan - HFDOPE

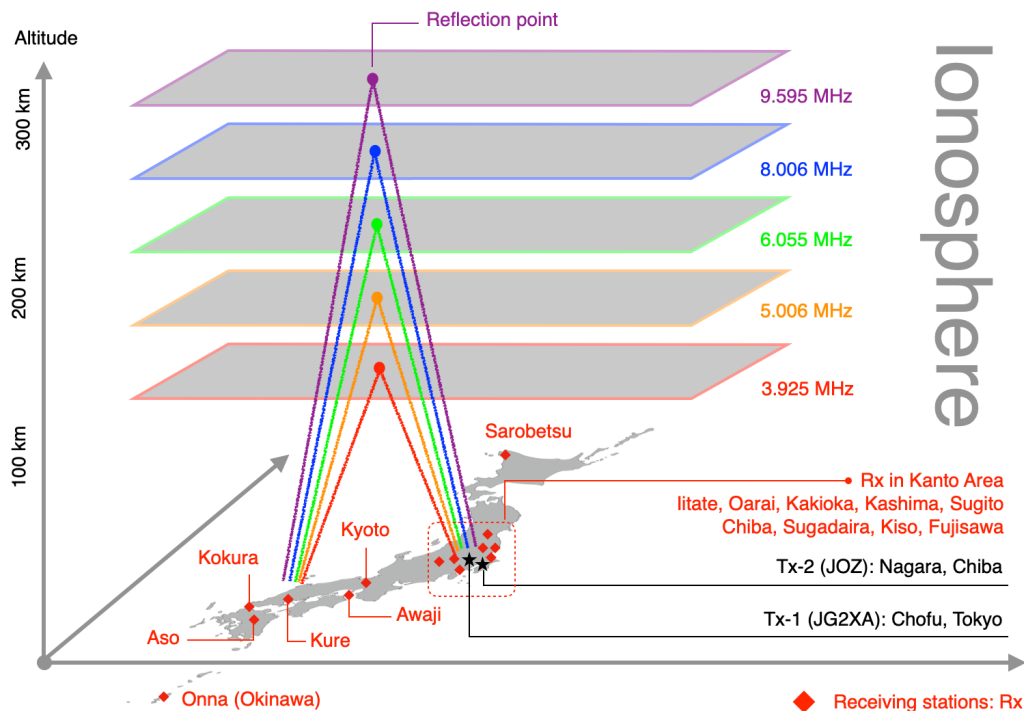
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Observation Sites

The main transmitting (Tx) station is operated in Chofu, Tokyo, within the Chofu Campus of UEC (JG2XA). JG2XA transmits continuous waves with a power of 200 W at 5006 kHz and 8006 kHz. The station ID is transmitted every 5 minutes by an amplitude modulation of the carrier in morse code with the callsign JG2XA and its objective "UEC HFD STATION". The type of radio signal is H2A (amplitude modulation with coded tones by single sideband).

Operation log (transmission side only)

At some stations, we also observe (or observed in the past) signals of **Radio Nikkei 1** (JOZ4 at 3925 kHz, JOZ2 at 6055 kHz, and JOZ3 at 9595 kHz) transmitted respectively from Nagara, Chiba (JOZ2/JOZ3) and from Nemuro, Hokkaido (JOZ4), Japan.



Receiving (Rx) Stations:

Station		Location		Frequency (kHz)				Period of Operation	
Name	ID	Glat (N)	Glom (E)	CH#0	CH#1	CH#2	CH#3	Start Date	End Date
Sarobetsu	SAR-D	45.162	141.754	5006	8006	6055	3925	Nov 19, 2020	
litate	IIT	37.689	140.673	5006	8006			June 1, 2014	June 7, 2022
litate	IIT-D	37.689	140.673	5006	8006	6055	3925	June 8, 2022	
Sugadaira	SGD	36.423	138.318	5006	8006	6055	9595	Oct 24, 2002	
Sugadaira	SGD-D	36.423	138.318	5006	8006	6055	3925	June 30, 2022	

Kakioka	KAK	36.232	140.186	5006	8006	6055	9595	Feb 14, 2011	Feb 5, 2018
Oarai	ORI	36.331	140.587	5006	8006	6055	9595	May 18, 2004	Sep 27, 2020
Oarai	ORI-D	36.331	140.587	5006	8006	6055	3925	Sep 28, 2020	
Kashima	KSM	35.953	140.663	5006	8006	6055	9595	Mar 9, 2004	Oct 3, 2020
Sugito	SGT	36.042	139.708	5006	8006	6055	9595	Mar 30, 2014	
Chiba	CHB-D	35.629	140.104	5006	8006	6055	3925	June 11, 2020	
Kiso	KIS	35.797	137.623	5006	8006	6055	9595	Mar 30, 2009	May 6, 2011
Shimizu	SMZ	34.983	138.517	5006	8006			May 17, 2004	Sep 10, 2004
Fujisawa	FJS	35.320	139.457	5006	8006	6055	9595	May 29, 2011	June 20, 2020
Fujisawa	FJS-D	35.320	139.457	5006	8006	6055	3925	Dec 18, 2020	
Kyoto	KYO	35.028	135.786	5006	8006	6055	9595	Feb 26, 2004	Aug 3, 2016
Awaji	AWJ	34.293	134.736	5006	8006	6055	9595	Mar 14, 2019	Dec 31, 2020
Awaji	AWJ-D	34.293	134.736	5006	8006	6055	3925	Jun 2, 2020	Dec 8, 2022
Kure	KUR	34.243	132.529	5006	8006			Mar 24, 2003	Jun 4, 2023
Kure	KUR-D	34.243	132.529	5006	8006	6055	3925	Jun 5, 2023	
Kokura	KOK-D	33.816	130.872	5006	8006	6055	3925	May 11, 2021	
Aso	ASO	32.885	131.007	6055	8006	5000	9595	Mar 13, 2009	Apr 16, 2016
Onna1	ON1	26.499	127.845	5006	8006	6055	9595	Nov 25, 2010	May 19, 2017
Onna2	ON2	26.499	127.845	5000	10000	15000	3925	Nov 25, 2010	May 19, 2017
Onna	ONA-D	26.499	127.845	5006	8006	6055	3925	Jun 12, 2020	

Note 1: At the Onna station in Okinawa, until May 2017, we had used two receivers (ON1 and ON2) to observe 8 frequencies in total at the same time.

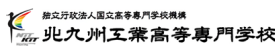
Note 2: Old analogue Rx systems are being replaced with a new one based on the software-defined radio (USRP N210). Such digital Rx stations are given IDs like "AWJ-D" ("-D" has been added to the 3 letter code). A technical paper describing the analogue/digital receiving systems has been [published](#).

Note 3: Operation of the Rx station in Kure is supported by Dr. Yamamoto at [Japan Coast Guard Academy](#).

Note 4: Operation of the Rx station in Kyoto was supported by [World Data Center for Geomagnetism](#), Kyoto University.

Note 5: Operation of the Rx station in Iitate has been supported by [Planetary Plasma and Atmospheric Research Center \(PPARC\)](#), Tohoku University.

Note 6: The operations of the Rx stations in Sarobetsu, Oarai, Onna are carried out in collaboration with [National Institute of Information and Communications Technology \(NICT\)](#).



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