

VERAユーザーズ会議

2020年9月25日13:15-13:30

VERA入来局常置 水蒸気ラジオメータ

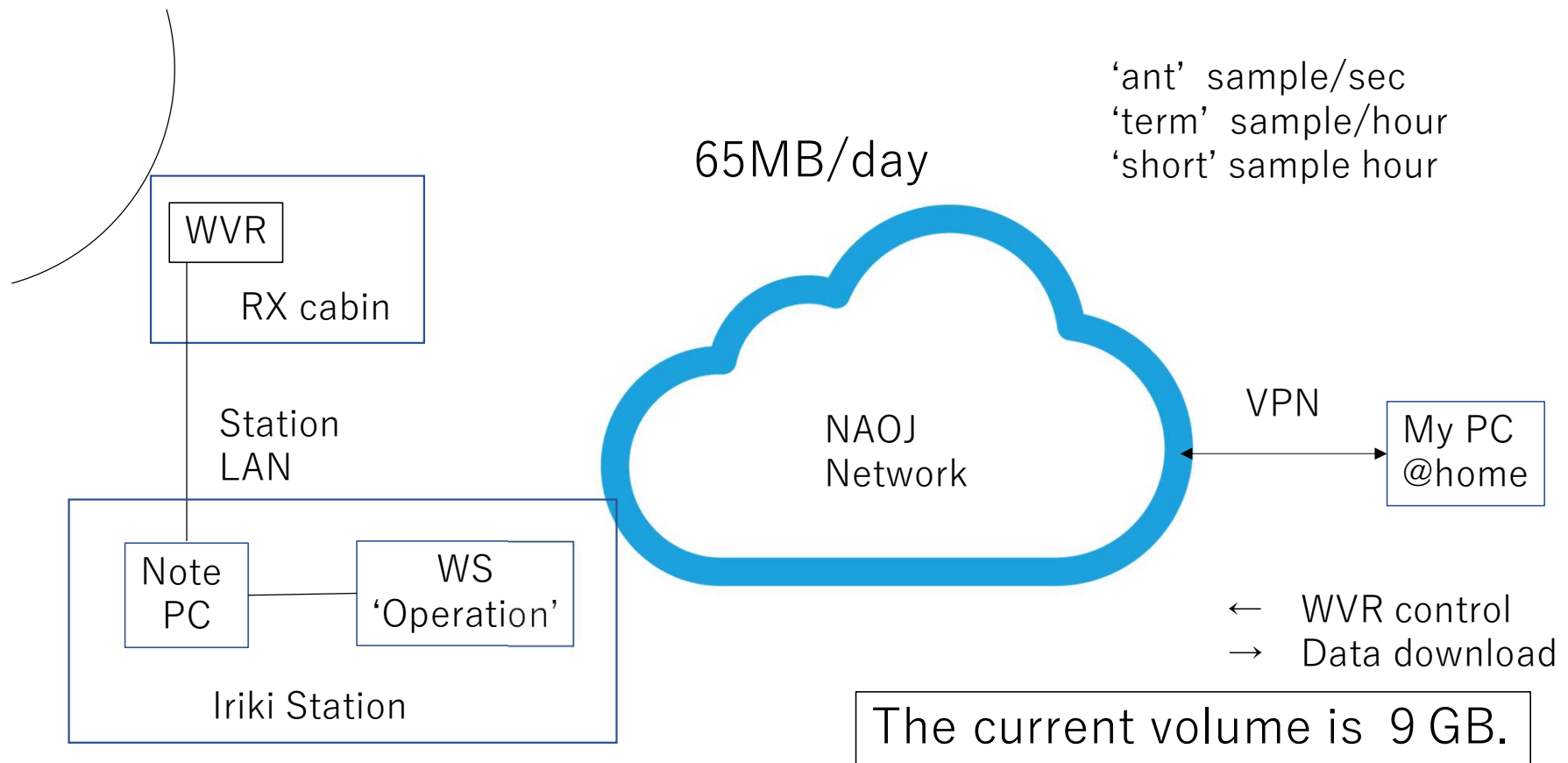
国立天文台名誉教授

川口則幸

Daily operation of Iriki WVR



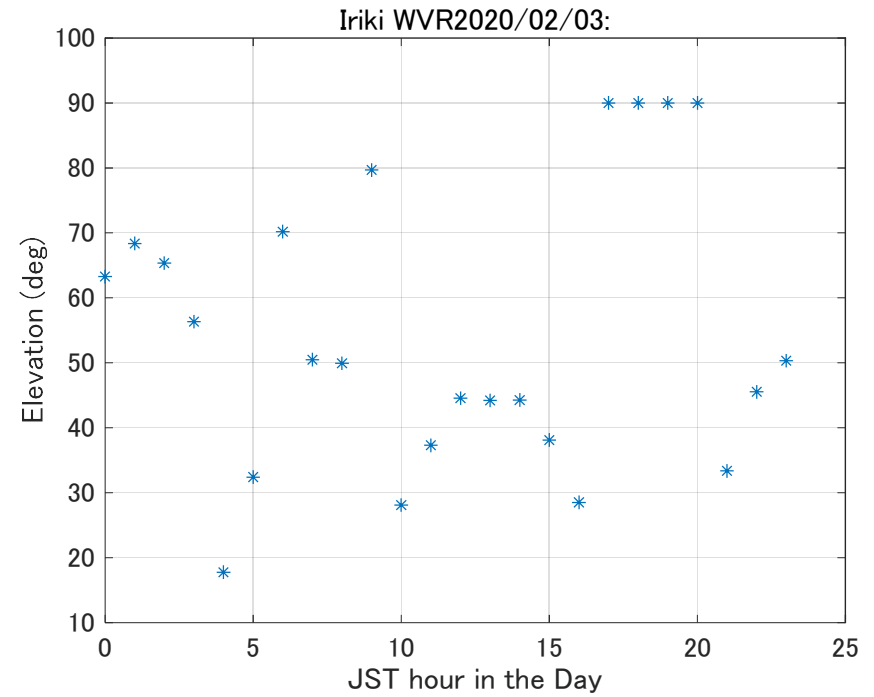
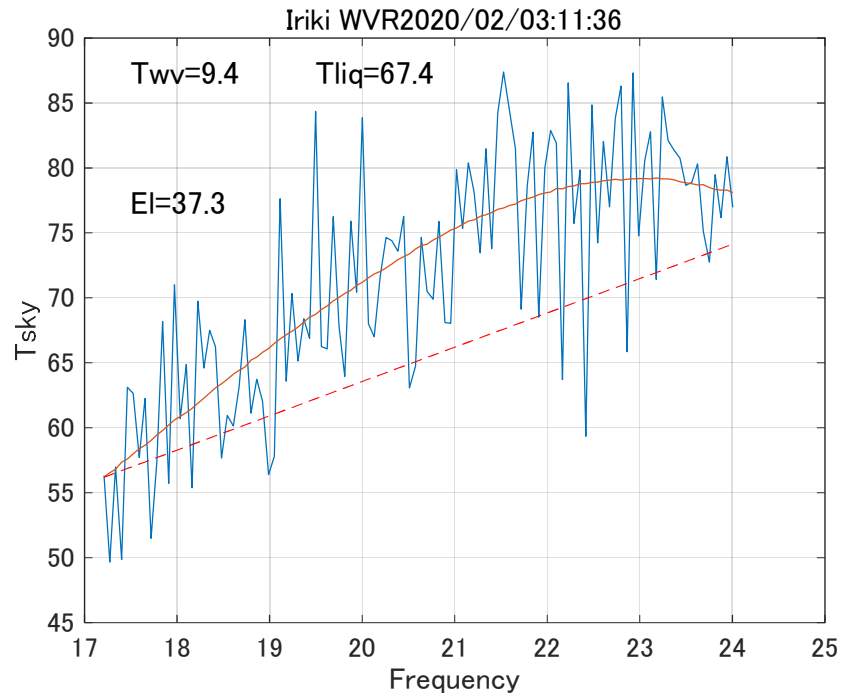
Data Flow



Data archived

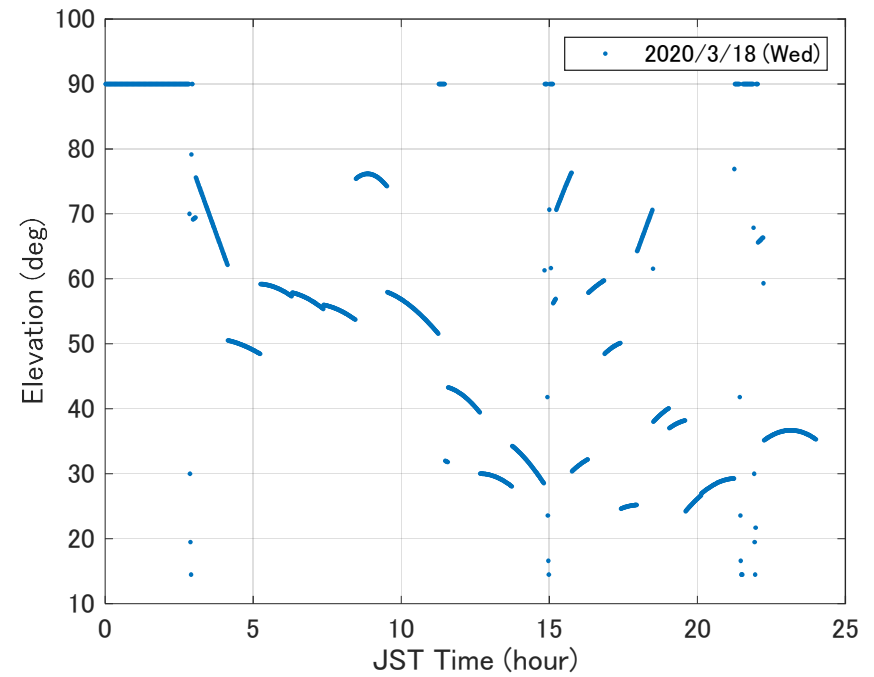
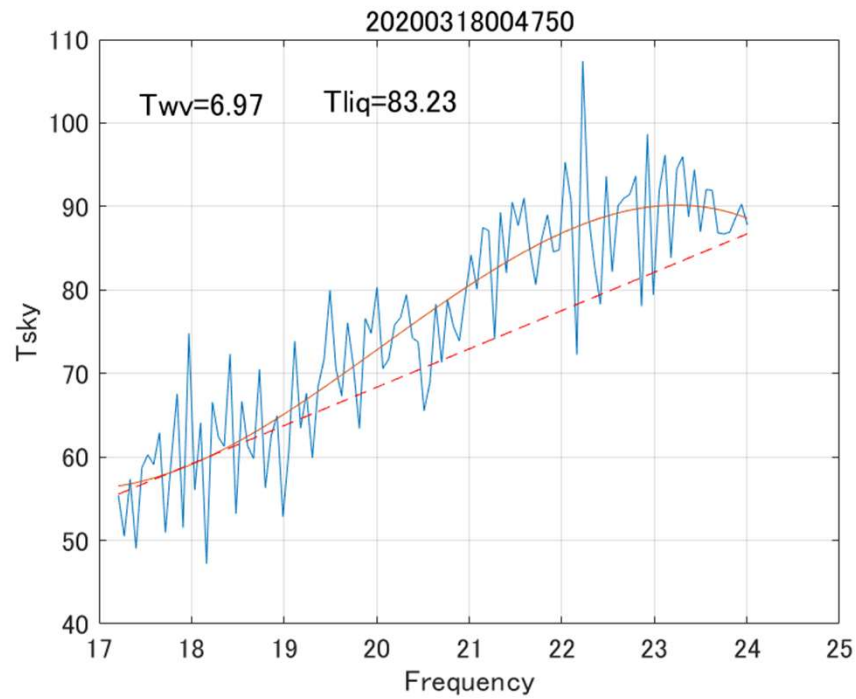
Year	Start M	Start D	Start Time	End D	End Time	# days
2020	2	1	00 h 35 m	11	19 h 35 m	12
	3	17	17 h 47 m	31	23 h 47 m	15
	4	1	00 h 47 m	23	12 h 47 m	24
	5	14	11 h 20 m	31	08 h 20 m	18
	6	9	18 h 13 m	30	07 h 57 m	21
	7	3	17 h 22 m	31	23 h 51 m	29
	8	1	00 h 05 m	31	23 h 38 m	31

Data example (2020_2_3, 34day)

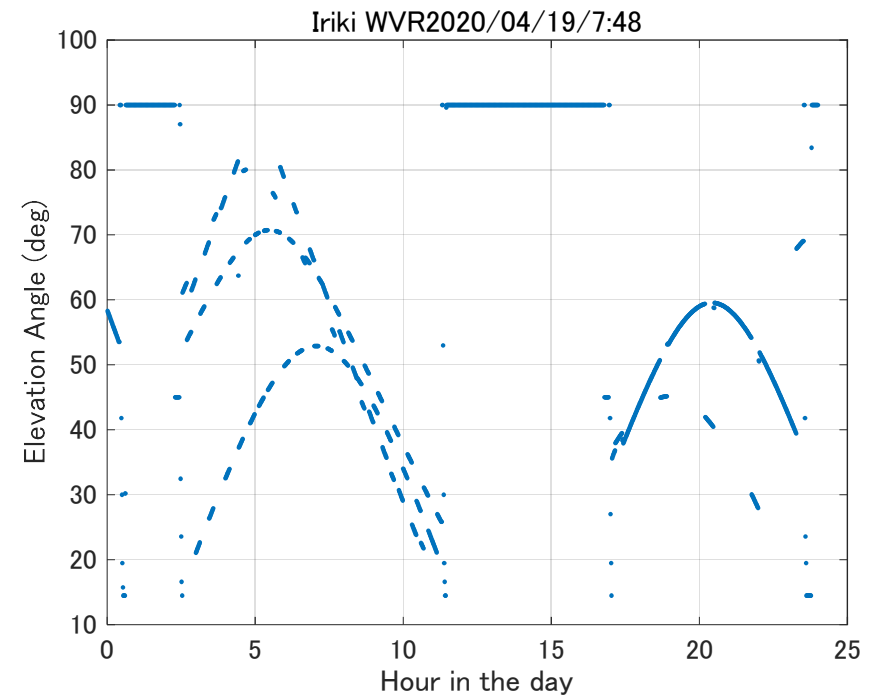
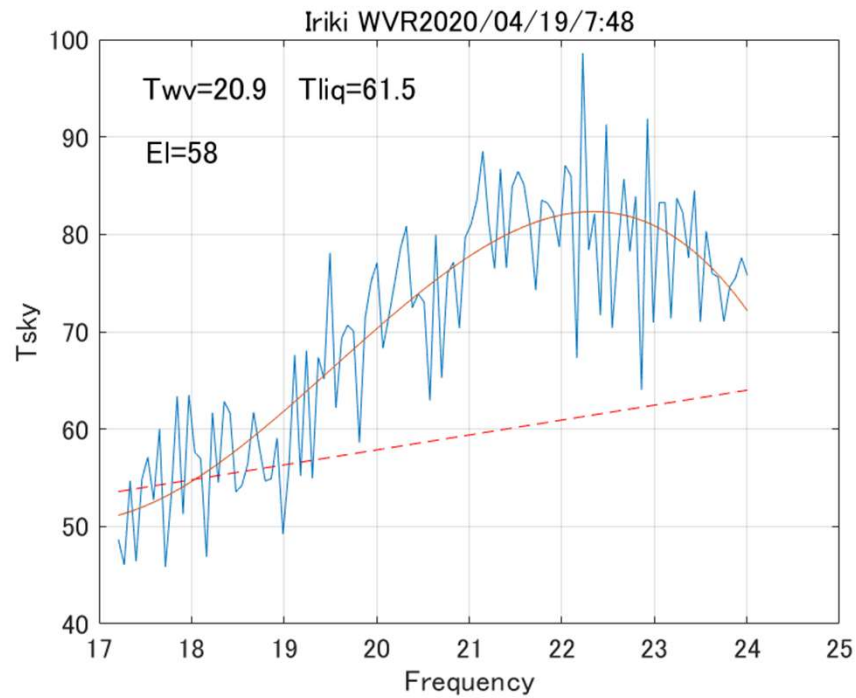


Data example (2020_3_18, 078day)

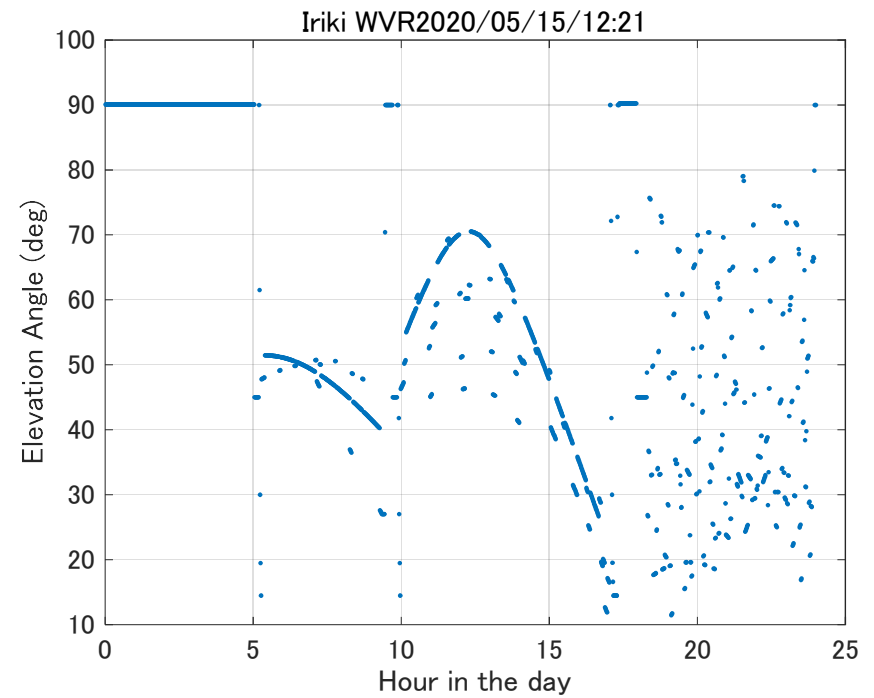
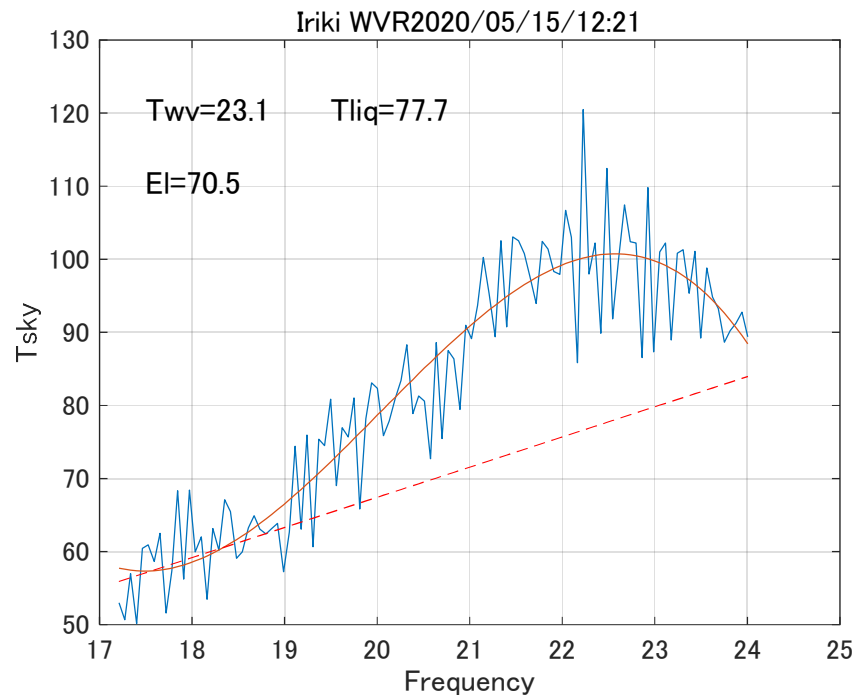
00 : 48



Data example (2020_4_19, 110day)

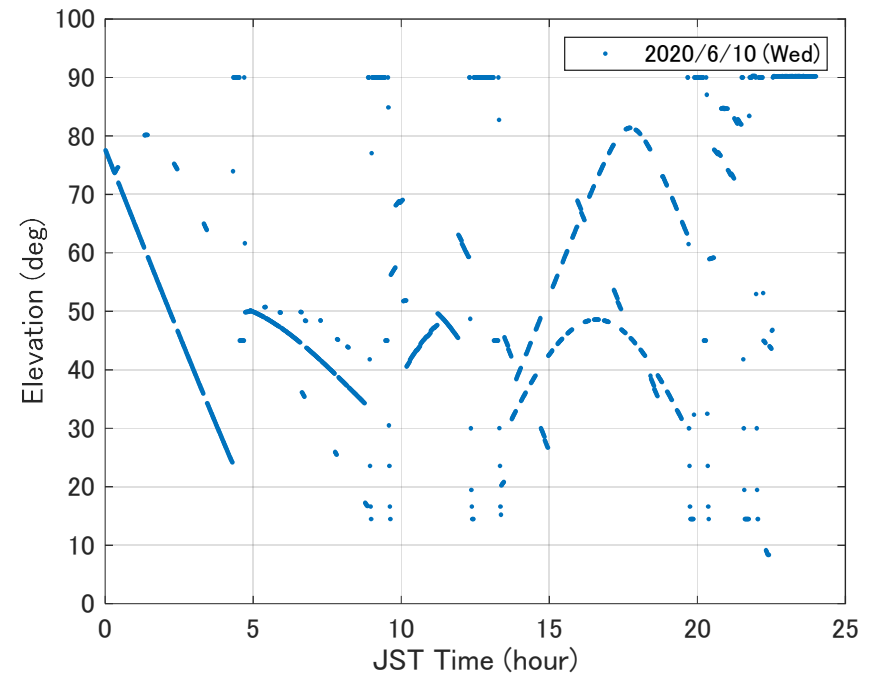
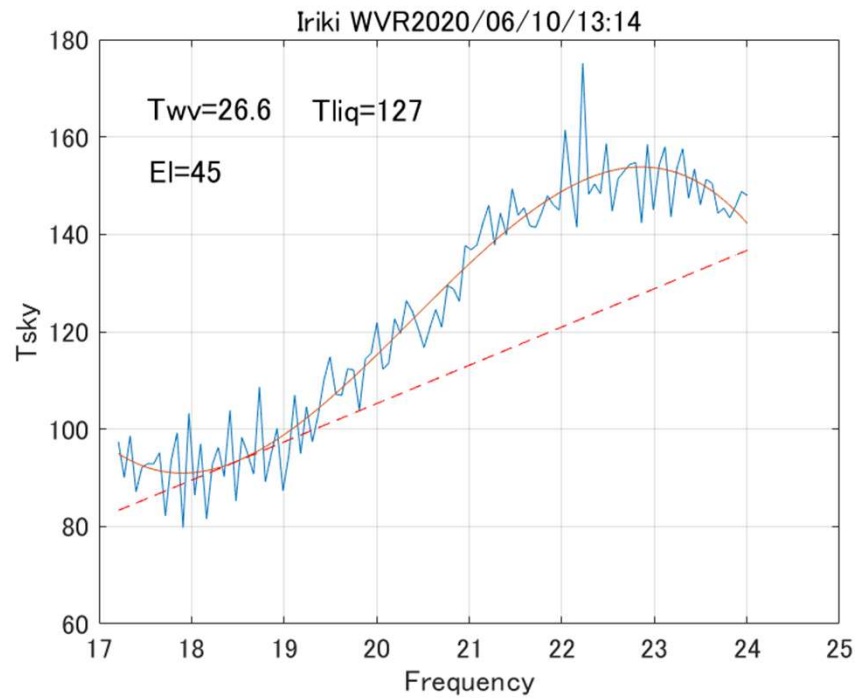


Data example (2020_5_15, 136day)

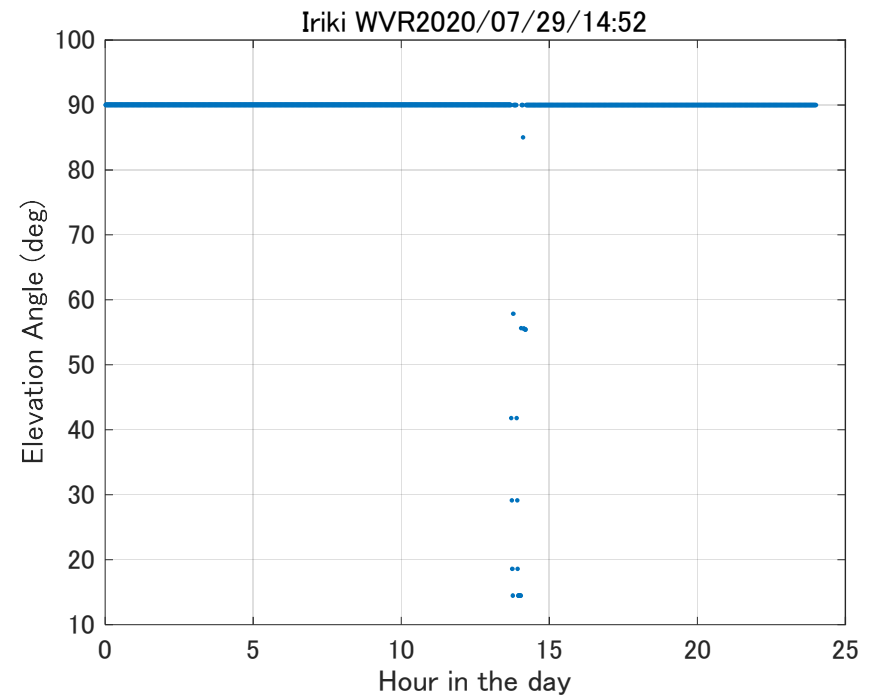
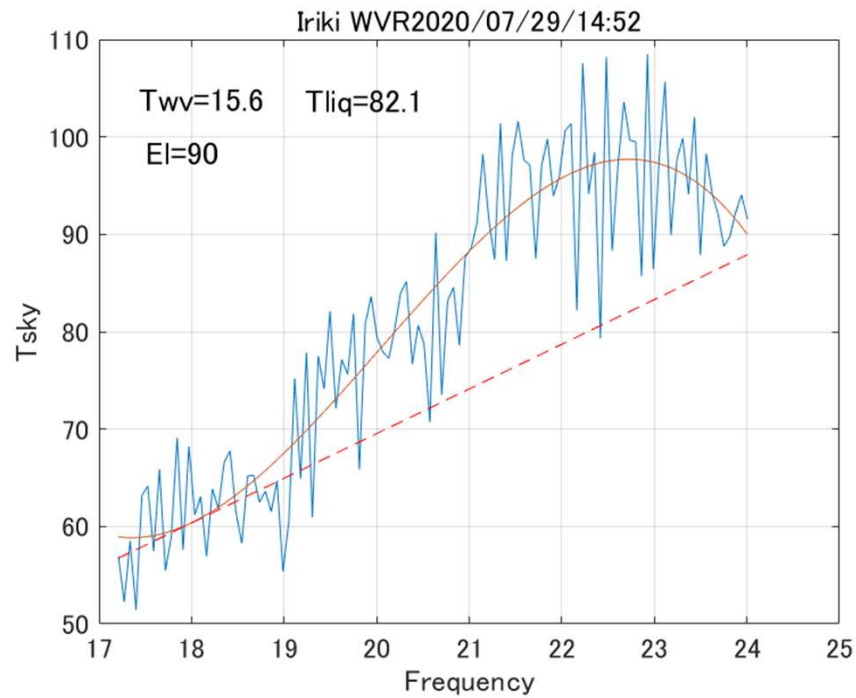


Data example (2020_6_10, 162day)

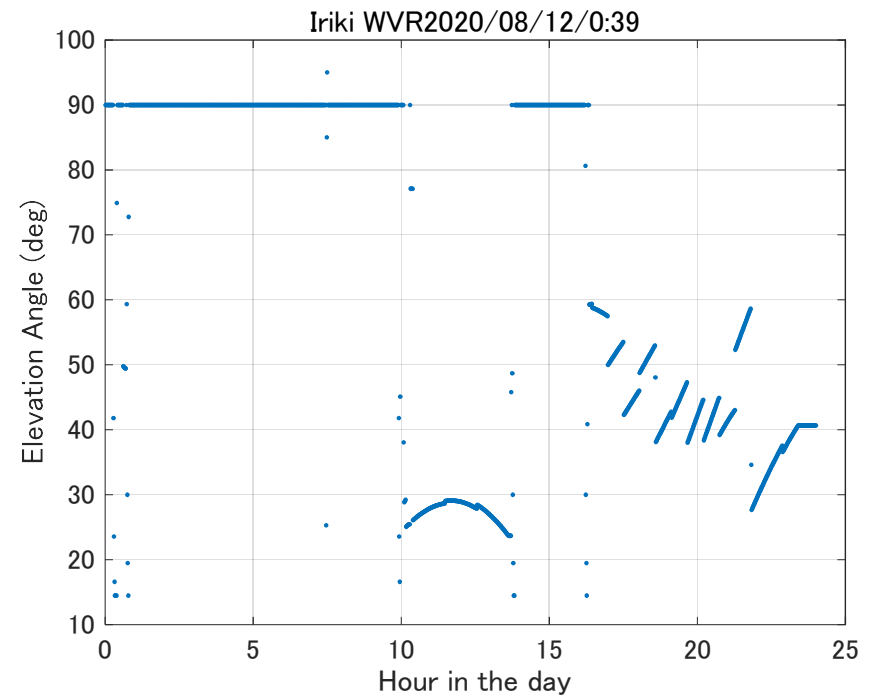
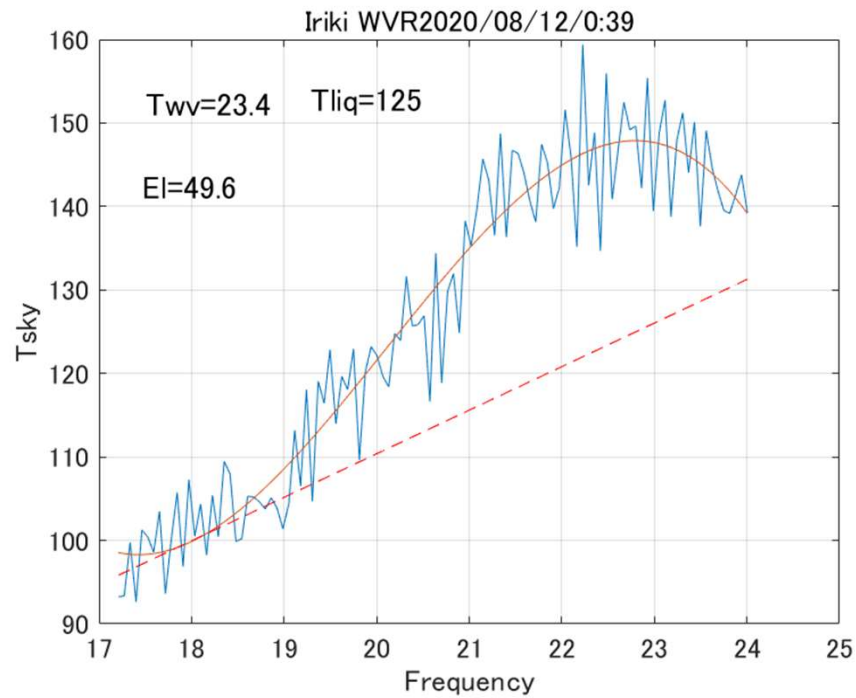
13:14



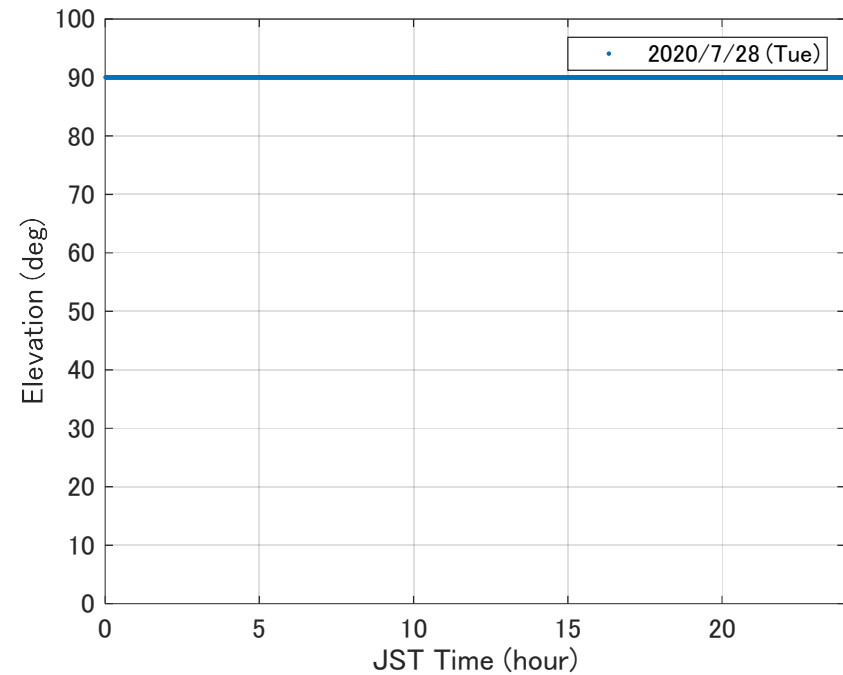
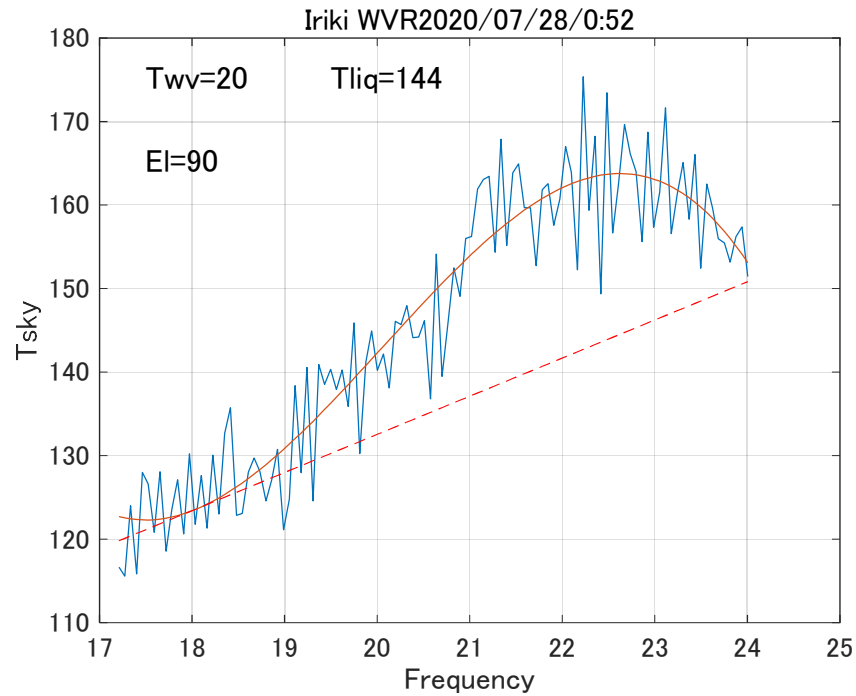
Data example (2020_7_29, 211day)



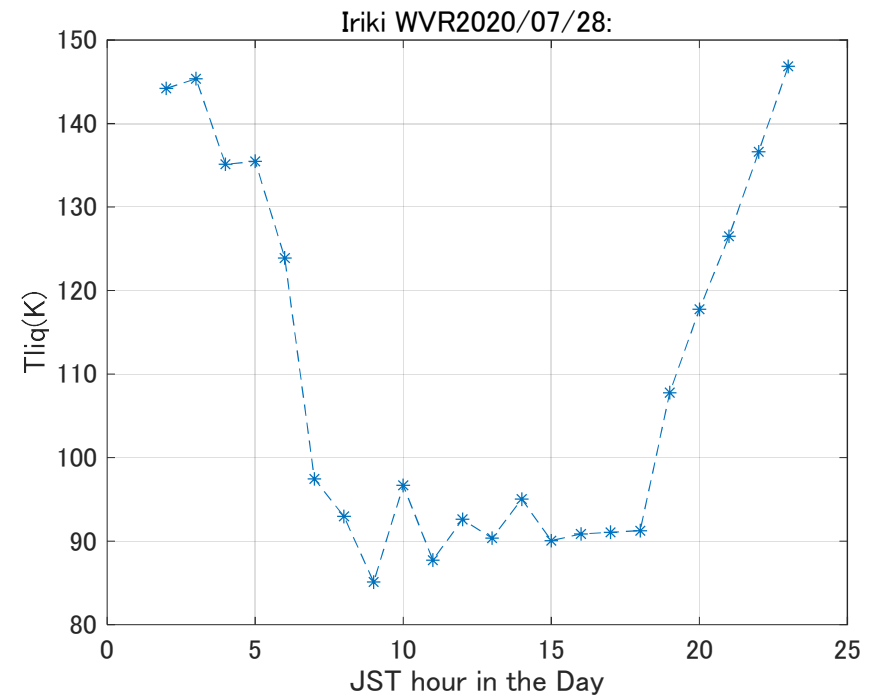
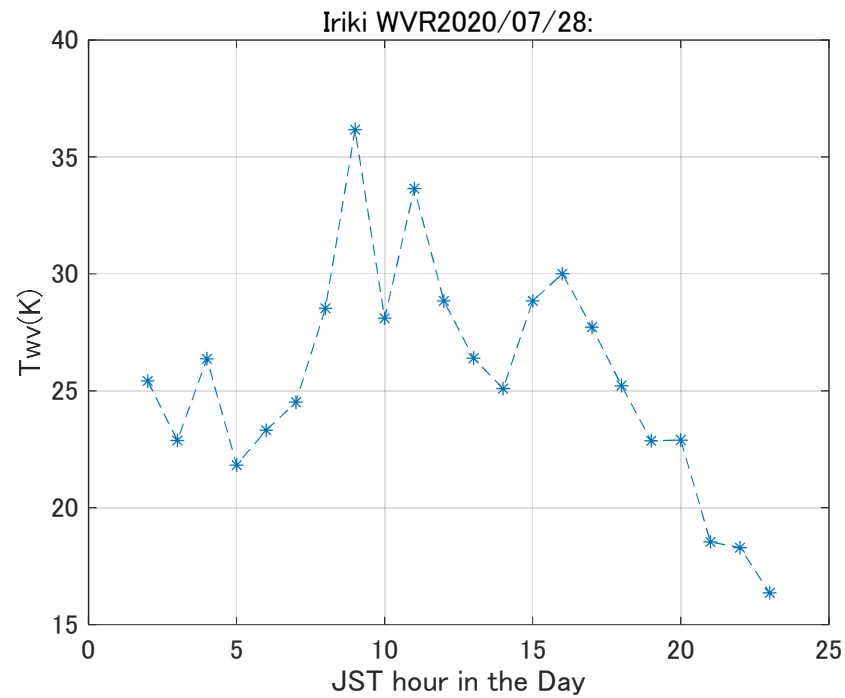
Data example (2020_8_12, 225day)



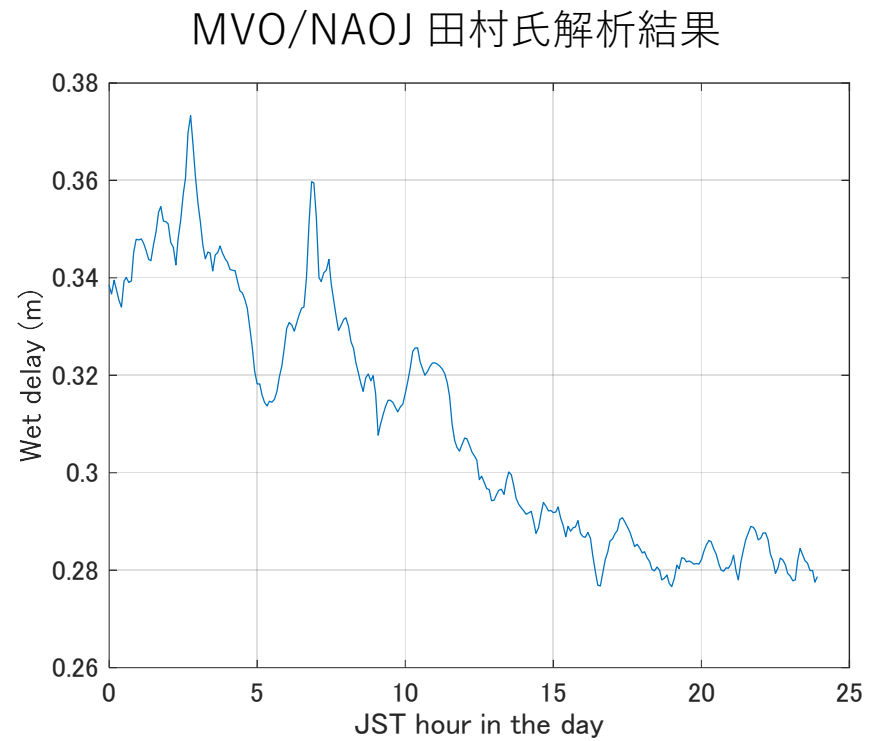
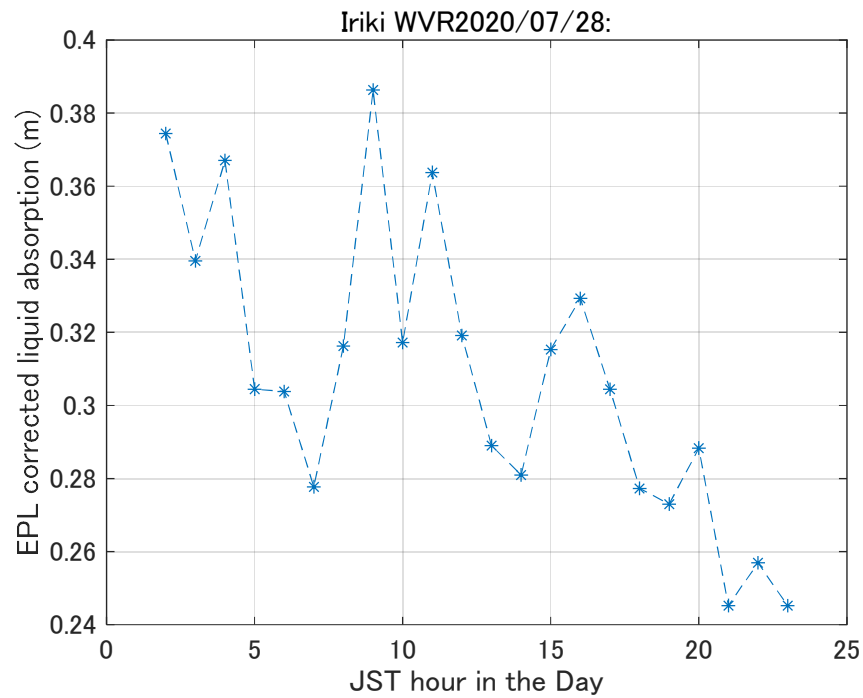
WVR at zenith parking on the day 210



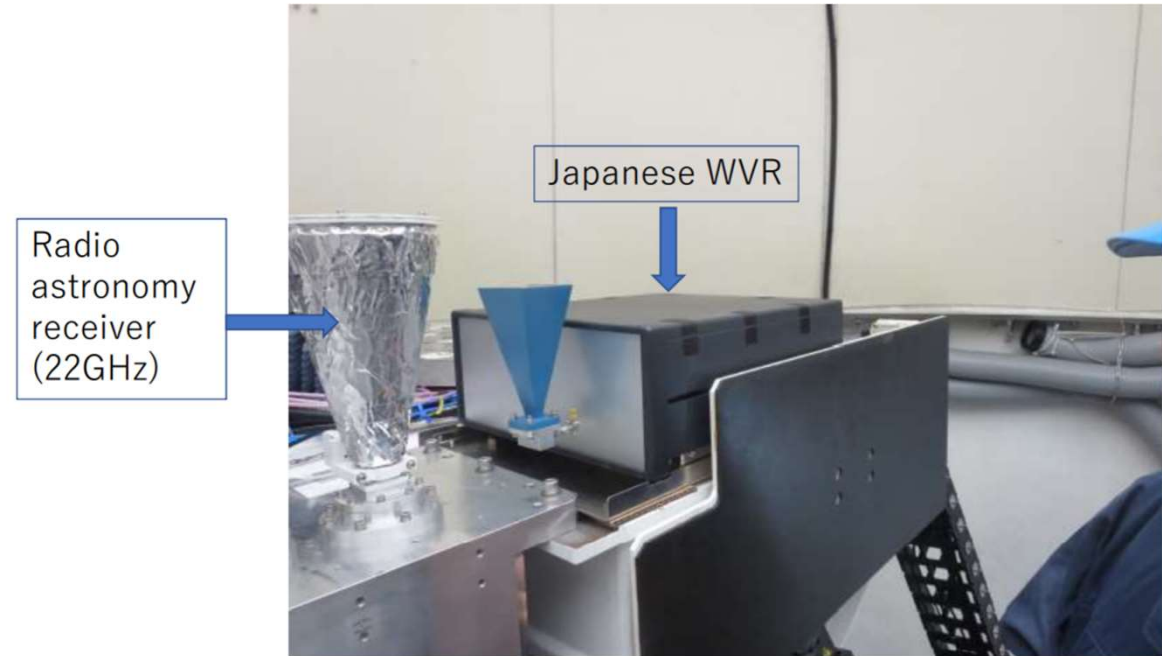
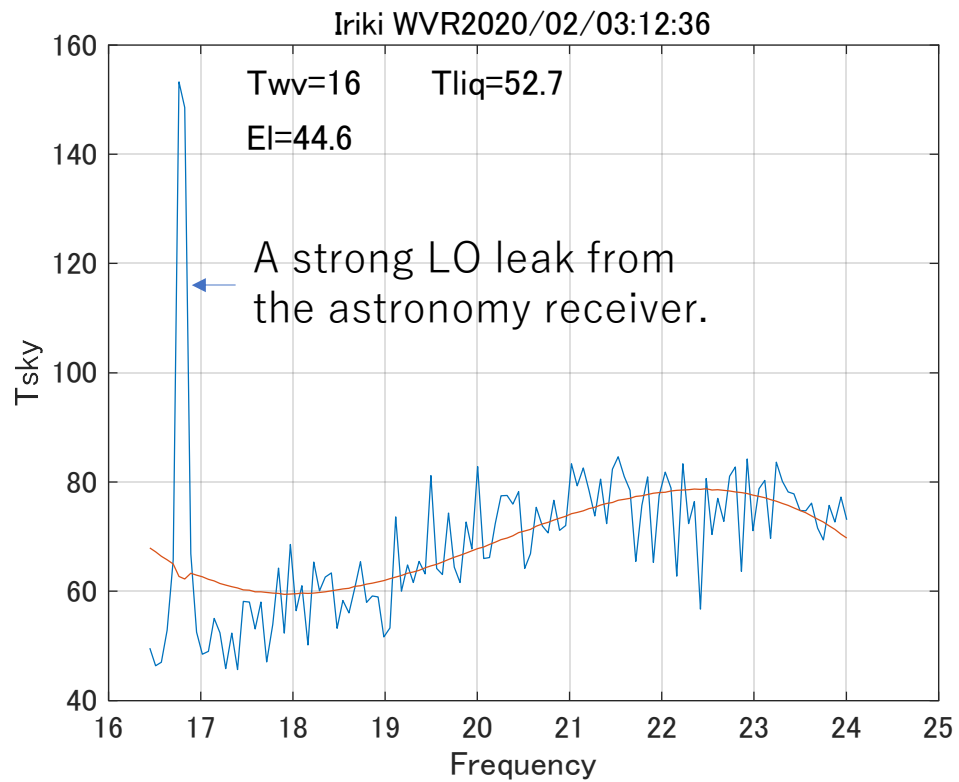
Hourly T_{wv} and T_{liq} in the day 210



GPS comparison (tentative)

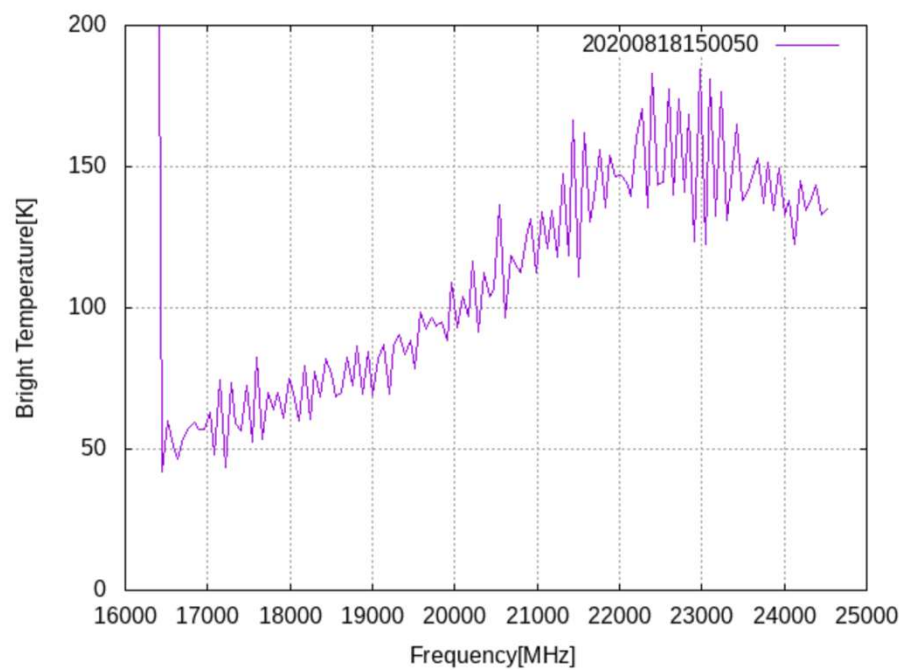


LO leak to the adjacent WVR



Preparation of Ogasawara WVR

2020/8/18



Summary

- Regular operation of Iriki WVR had started in February, 2020.
- 7 month data has already been acquired so far.
- Huge amount of data are waiting for analyzing and investigating.
- Future works
 - Receiver temperature and the reliability test on a k-factor.
 - The fact that the receiver temperature obtained by Y(Term/Short) is stable, ϕ indicates a k-factor is reliable enough.
 - Comparison to GPS delay
 - Sec-z dependence of WVR delay shall be investigated.
 - Comparison to VLBI delay on Iriki and Ogasawara
 - Installation of Ogasawara WVR