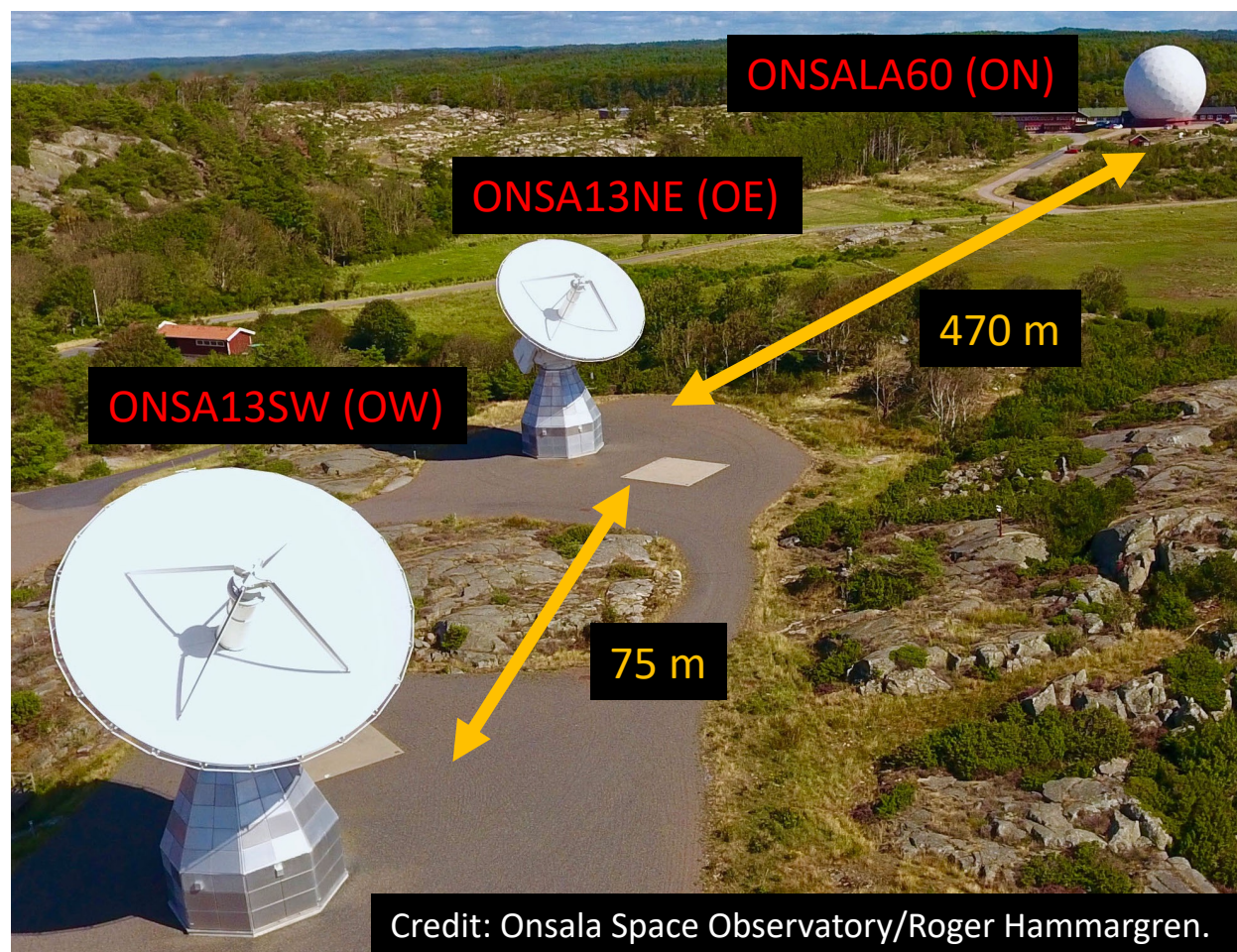


Question: Where (exactly) are the new Onsala Twin Telescopes (Oe and Ow)?



Method: Short-baseline interferometry

- Position of old telescope ON is known
- Observe together with ON, OE, OW at 8 GHz
- 25 sessions 2019/2019 (~1000 scans/24h)
- Process raw data with DiFX, HOPS, nuSolve
- Analyse with ASCOT (keeping ON fixed)
- Obtain group- and phase-delay results

Answer: VTRF 2020d coordinates:

antenna	Position [m]			Uncertainty [mm]		
	X	Y	Z	σ_X	σ_Y	σ_Z
OE	3370889.29717	711571.19876	5349692.04692	0.11	0.05	0.17
OW	3370946.77840	711534.50648	5349660.92411	0.11	0.05	0.17