

Parameters	Description
Location	Andøya, Norway (69.03° N, 16.04° E)
Operating frequency	53.5 MHz
Allocated bandwidth	4 MHz
Peak power	866 kW
Maximum duty cycle	5 %
Pulse repetition frequency	≤ 30 kHz
Pulse length	≥ 0.33 μ s
Sampling resolution	≥ 50 m (300 m in the current study)
Transmitted waveforms	single pulse, complementary and Barker codes
Pulse shapes	square, Gaussian, shaped trapezoid
Antenna type	3-element Yagi
No. of Antennae	433
Effective antenna area	~ 6300 m ²
Half power beam width	3.6° (~ 630 m at the altitude of 10 km)
Directive gain	≤ 33.5 dBi
Beam directions	arbitrary at zenith angles $< 30^\circ$
Receiving channels	16