Radar		
Type Central frequency Transmitted power	FM-CW 3.298 GHz 100 W	S-band Automatic decrease by step of 10 dB in case of receiver saturation
Signal generation		
Sweep time No. of range bins Range resolution Time resolution	0.5 ms 512 30 m 2.56 s	Height resolution = 21.2 m
Polarimetry		
Polarization Measurement cycle	VV HV HH VV HV HH OB1 OB2	Main beam only Main beam + 2 offset beams
Doppler		
No. of Doppler bins Doppler resolution Max. unambiguous vel. Max. vel. main beam Max. vel. offset beams	512 $0.036 \mathrm{m s^{-1}}$ $\pm 9.1 \mathrm{m s^{-1}}$ $\pm 45.5 \mathrm{m s^{-1}}$ $\pm 45.5 \mathrm{m s^{-1}}$	After spectral polarimetric dealiasing (Unal and Moisseev, 2004) After spectral dealiasing
Antennas		
Beam width Gain Near field	2.1° 38.8 dB ≤ 200 m	
Beams	Elevation	Azimuth (North = 0°)
Main beam Offset beam 1 Offset beam 2 Clutter suppression	45° 60° 43.1°	246.5° 246.5° 267.3°
Hardware Processing	Antennas Doppler spectrum	Low side lobes Spectral polarimetry (main beam)