

CWB Radar Network

Instrument	RCKT	RCCG	RCHL	RCWF
Site name (lat, lon)	Kenting 120.85 21.90	Cigu 120.07 23.15	Hualien 121.62 23.99	Wufenshan 121.77 25.07
Instrument Type	Ground-based, S-band Doppler (METEOR/1000S)			Ground-based, S-band Doppler (WSR-88D)
Measurement	Doppler velocity, reflectivity, spectral width			Doppler velocity, reflectivity, spectral width
Operated by	CWB			CWB
Platform	Ground-based, fixed			Ground-based, fixed
Transmitter frequency	2.84 GHz	2.836 GHz	2.836 GHz	2.86 GHz
Transmitter Wavelength	10.56 cm	10.58 cm	10.58 cm	10.49 cm
Transmitter Peak Power	750 kW			750 kW
Transmitter Pulse Width	0.5 μ s, 33 μ s			1.57 μ s, 4.5 μ s
Pulse Repetition Frequency	250~625Hz(ND), 500~1300Hz(D)			318-1304 Hz
Polarization Diversity	Linear Horizontal			Linear Horizontal
Transmitted Pulse Package	CS/CD/Phase coding			連續監視型(CS)、連續都卜勒型(CD)、批次型(B)
Antenna Type	Parabolic			Parabolic, center feed
Antenna Diameter	8.5 m			8.53 m
Antenna Beam Width	1 deg			0.95 deg
Antenna Gain	45 dB			45.5 dB
Antenna Scan Rate	3-36 deg/s			36 deg/s
Maximum Side Lobe	-26 dB			-27 dB
Receiver band width				0.79 MHz
Receiver dynamic range	95 dB			95 dB
Measurement Range	Depend on PRF			Min :230 km, Max:460 km
Range Resolution/Gate Spacing	Depend on PRF			250 m
Along track beam spacing	Depend on PRF			
Number of Range Gates	75(Min)~2500(Max)(Depend on PRF)			
Number of Samples	32,64(ND),128 (D) (Depend on PRF)			
Data Recording				

Coverage of CWB Radar Network

