

# DSN Assets and Capabilities

August, 2022

## GDSCC - Goldstone, CA

DSS-15 HEF  
DSS-24 BWG-1  
DSS-25 BWG-2  
DSS-26 BWG-3  
DSS-23 BWG-4

DSS-14 70m  
DSS-13 R&D  
DSS-28 GAVRT

Signal Processing Center SPC-10  
Emergency Control Center

## CDSCC - Canberra, Australia

DSS-45 HEF  
DSS-34 BWG-1  
DSS-35 BWG-2  
DSS-36 BWG-3  
DSS-33 BWG-4

DSS-43 70m

Signal Processing Center SPC-40

## MDSCC - Madrid, Spain

DSS-65 HEF  
DSS-54 BWG-1  
DSS-55 BWG-2  
DSS-56 BWG-3  
DSS-53 BWG-4

DSS-63 70m

Signal Processing Center SPC-60

## Pasadena & Monrovia, CA

DSN Project Office  
Pasadena, CA

Deep Space Operations Center (DSOC)  
Pasadena, CA

Remote Operations Center (ROC)  
Monrovia, CA

DTF-21 Monrovia, CA  
CTT-22 Mobile  
MIL-71 KSC, FL

Freq. Band	S Up	S Down	X Up	X Down	Ka Up	Ka Down
Deep Space	2.11-2.12	2.29-2.3	7.145-7.19	8.40-8.45	34.20-34.70	31.80-32.30
Near Earth	2.025-2.11	2.2-2.29	7.19-7.235	8.45-8.5	22.55-23.15	25.50-27.00

**Legend** Decommissioned Future DAEP

Grey - Decommissioned

20kW now - Will be upgraded to 80kW

400W now - Will be upgraded to 1kW array feed

• - Deep space band only, \* - near earth only

♦, 250W, 1kW - Future DAEP/DLEU/DSN deliveries

□ - 8m Optical delivered Feb, 2035

Antenna	Sub-Net	S-Band		X-Band			K-Band		Ka-Band		Optical 1550nm Down	Est. Deliv. Dates
		Up	Down	Up	Down	Radar	Up	Down	Up	Down		
DSS-14	70m	20kW•	√	20kW	√	500kW						8/2026
DSS-15	34m HEF	250W	↘	20kW	↘							
DSS-23	34m BWG			20kW	♦					♦	□	10/2025
DSS-24	34m BWG	20kW	√	20kW	√		250W	√		♦		4/2024
DSS-25	34m BWG			20kW	√				400W	√		5/2028
DSS-26	34m BWG	250W*	√	80kW	√		250W	√		√		
DSS-33	34m BWG			80kW	♦					♦		10/2029
DSS-34	34m BWG	20kW	√	20kW	√		250W	√		√		6/2025
DSS-35	34m BWG			20kW	√				1kW	√		8/2026
DSS-36	34m BWG	250W*	√	20kW	√		250W	♦		√		11/2022
DSS-43	70m	100kW•	√	80kW	√							
DSS-45	34m HEF	250W	↘	20kW	↘							
DSS-53	34m BWG			20kW	√					√		
DSS-54	34m BWG	20kW	√	20kW	√		250W	√		√		2/2027
DSS-55	34m BWG			20kW	√				1kW	√		9/2027
DSS-56	34m BWG	250W*	√	20kW	√		250W	√		√		10/2024
DSS-63	70m	20kW•	√	20kW	√							12/2028
DSS-65	34m HEF	250W*	√	20kW	√							