

DSN Assets and Capabilities

October 2024

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

Emergency22 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

Other Assets

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	K/Ka Up	K/Ka Down
Deep Space	2.11-2.12	2.29-2.3	7.145-7.19	8.4-8.45	34.2 - 34.7	31.8-32.3
Near Earth	2.025-2.11	2.2-2.29	7.19-7.235	8.45-8.5	22.55-23.15	25.5 - 27.0

Legend

~~Decommissioned~~ (Grey)

Future DAEP (Dashed Blue Box)

Delivered DAEP (Solid Blue Box)

Grey - Decommissioned

20kW now - Will be upgraded to 80kW

400W - Future delivery

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

◆ - Future DAEP/DLEU/DSN deliveries

■ - By Permission only for deep space level

Antenna	Sub-Net	S-Band		X-Band			K-Band		Ka-Band		Optical 1550nm	Est. Deliv. Dates
		Up	Down	Up	Down	Radar	Up	Down	Up	Down	Down	
DSS-14	70m	20kW●	√	20kW	√	500kW						6/2028
DSS-15	34m HEF	250W	√	20kW	√							
DSS-23	34m BWG	400W*	◆	20kW	◆					◆		6/2026
DSS-24	34m BWG	20kW	√	20kW	√		250W	√		◆		TBD
DSS-25	34m BWG	400W*	◆	20kW	√				400W	√		8/2026
DSS-26	34m BWG	150W*	√	80kW	√		250W	√		√		
DSS-33	34m BWG			80kW	◆					◆		10/2029
DSS-34	34m BWG	20kW	√	20kW	√		250W	√		√		10/2024
DSS-35	34m BWG	400W*	◆	20kW	√				400W	√		6/2026
DSS-36	34m BWG	150W*	√	20kW	√		250W	√		√		
DSS-43	70m	100kW● 400W*	√	80kW●	√							12/2025- 1/2026
DSS-45	34m HEF	250W	√	20kW	√							
DSS-53	34m BWG	400W*	◆	20kW	√		250W	◆		√		4/2026
DSS-54	34m BWG	20kW	√	20kW	√		250W	√		√		10/2028
DSS-55	34m BWG	400W*	◆	20kW	√				400W	√		3/2027
DSS-56	34m BWG	150W*	√	20kW	√		250W	√		√		7/2025
DSS-63	70m	20kW■	√	20kW●	√							TBD
DSS-65	34m HEF	150W*	√	20kW●	√							