


EURECA (European Retrievable Carrier)	
Typ:	Forschungssatellit
Betreiber:	ESA
COSPAR-Bezeichnung:	1992-049B
Missionsdaten	
Masse:	4491 kg
Start:	31. Juli 1992, 13:56:48 UTC STS 46
Startplatz:	Kennedy Space Center, LC-39B
Aussetzen:	02. Aug 92
Einfangen:	Während STS-57
Landung am KSC:	01. Jul 93
Trägerrakete:	Space Shuttle Atlantis
Bahndaten	
Umlaufzeit:	94,6 min[1]
Bahnneigung:	28,5°
Apogäum:	509 km
Perigäum:	484 km

Total spacecraft mass, payload mass	4490 kg, 1000 kg
Payload power	1 kW average, 1.5 kW peak
Orbit control	Earth pointing mode, hot gas system
Attitude control	Hot or cold gas system
Attitude sensing	Sun and Earth sensors, gyros, accelerometers
Attitude: sun inertial pointing	±1° (3σ), the actual performance during flight was ± 0.45°
Attitude measurement accuracy	±0.25° (3σ)
Microgravity environment	< 10 ⁻⁵ g for f < 1 Hz linear for 1 Hz < f < 100 Hz < 10 ⁻³ g for f > 100 Hz
Onboard data storage capacity	13 MByte (11.3 for payload data, 1.7 for housekeeping data)

EUROPEAN RETRIEVABLE CARRIER (EURECA)



DESIGN AND PERFORMANCE

Dimensions : 2.540 m deep
2.250 m radius
(in Shuttle cargo bay)

Launch Mass : 4500 kg

Payload Mass : 1000 kg

Payload Volume : 10.0 m³ (nominal)
8.5 m³ (EURECA-1)

Power : 5.0 kW total
1.0 kW average to Payloads

Data Management : 256 kbps HI-speed down
2 kbps Low-speed up/down
128 Mbits Memory on-board



Nominal Orbit : 515 km, 28.5°

Sun Pointing Accuracy : ± 1° (3 Sigma)

Nominal Mission Duration : 6 to 9 months

Design Life : 5 missions or 10 years

Launched and Retrieved by Space Shuttle


03/92


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