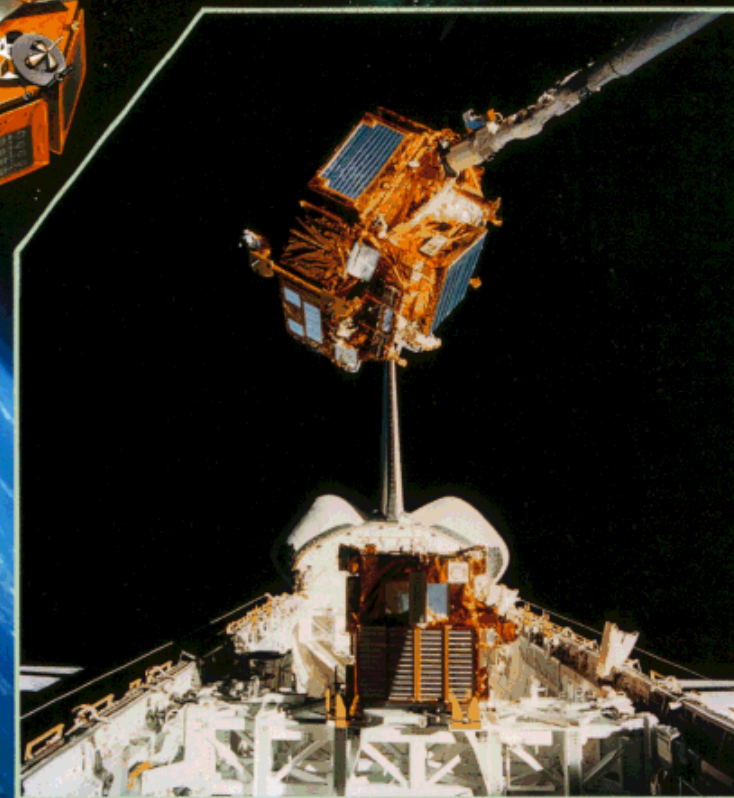
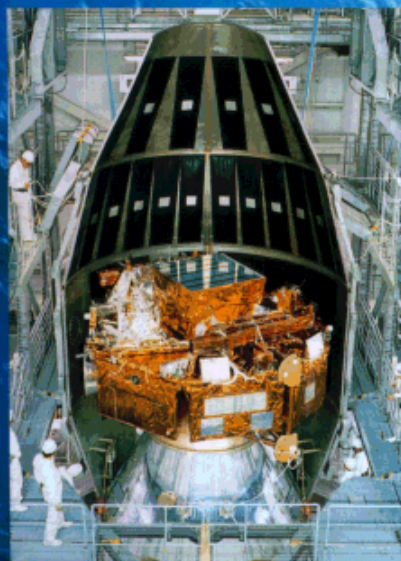


# SPACE FLYER UNIT (SFU)



H-II Launch : March 18, 1995  
Space Shuttle Launch : January 11, 1996  
Retrieved by Space Shuttle : January 13, 1996  
Space Shuttle returned : January 20, 1996

## Performance Goal

Mission orbit : LEO (300-500km altitude)  
Mission period : Three months (experiment operation)  
Launch mass : 4000kg  
Recovery mass : 3200kg  
STS envelope : 4.46m x 2.8 (typical)  
Maximum length : 27m  
Communication : S band  
command : 1kbps  
telemetry : 128kbps, 16kbps, 1kbps  
data recorder : 80Mbits  
Attitude control : Sun pointing  
accuracy :  $\pm 1$  degree  
Experiment accommodation : 6 Payload boxes and external mount  
Electrical power service : 1000W max  
Microgravity condition :  $10^{-4}g$

INSTITUTE FOR UNMANNED SPACE EXPERIMENT FREE FLYER