Middle Atmosphere High Resolution Spectrograph Investigation

Objectives: Measure the global distribution of OH and NO in the Middle Atmosphere

Technique: Limb Scan UV solar resonance fluorescence with a resolving power of 17,000 from the free flying, short duration (8 days), ASTRO-SPAS satellite

History: CRISTA-SPAS I in November, 1994
CRISTA-SPAS II in August, 1997

Altitude Coverage: 35 – 90 km for OH

Altitude Resolution: 0.3 km FOV at tangent point

Geographic / Local Time Coverage:

Orbital Inclination 57° for both flights

Nov ’94: Sunrise - 52° S
Noon - 62° N

Aug ‘97: Sunrise - Equator
Noon - 72° N
Sunset - 20° N