

ATM SCIENTIFIC EXPERIMENTS

EXPERIMENT NUMBERS	ORGANIZATION	PRINCIPAL INVESTIGATOR	INSTRUMENT	PURPOSE
S052	HAO	DR. G. NEWKIRK	CORONAGRAPH	MONITOR THE BRIGHTNESS, FORM AND POLARIZATION OF THE SOLAR CORONA IN WHITE LIGHT.
S053	NRL	MR. J. D. PURCELL	CORONAL SPECTROHELIOGRAPH	MAKE HIGH-SPATIAL RESOLUTION MONOCHROMETRIC SOLAR IMAGES IN THE 160-650 ANGSTROM RANGE
			CHROMOSPHERIC SPECTROGRAPH	RECORD SOLAR SPECTRA IN THE 800-3000 ANGSTROM RANGE WITH HIGH SPECTRAL RESOLUTION
S054	AS&E	DR. R. GIACCONI	SPECTROGRAPHIC X-RAY TELESCOPE	STUDY SOLAR FLARE EMISSIONS IN THE SOFT X-RAY WAVELENGTHS (2-60 ANGSTROMS)
S055	HCO	DR. L. GOLDBERG	SPECTROHELIOMETRIC UV TELESCOPE	MAKE HIGH SPATIAL RESOLUTION SOLAR IMAGES IN THE 300-1400 ANGSTROM RANGE
			SPECTROMETRIC UV TELESCOPE	STUDY SOLAR SPECTRAL EMISSIONS WITH HIGH SPATIAL RESOLUTION IN THE 1450-2250 ANGSTROM RANGE
			HYDROGEN-ALPHA SPECTROHELIOGRAPH	MAKE HYDROGEN-ALPHA SPECTROHELIOGRAMS OF THE ENTIRE SOLAR DISC
S056	GSFC	MR. J. E. MILLIGAN	HI-RESOLUTION X-RAY TELESCOPE	OBTAIN TIME-HISTORIES OF THE DYNAMICS OF THE SOLAR ATMOSPHERE IN X-RAYS IN THE 3-100 ANGSTROM RANGE

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FIGURE 72

ATM SUPPORTING INSTRUMENTS

ORGANIZATION	PRINCIPAL INVESTIGATOR	INSTRUMENT	PURPOSE
HAO	DR. G. NEWKIRK	OCCULTING DISC ALIGNMENT SYSTEM	CENTER INTERNAL OCCULTING DISK TO MINIMIZE SCATTERED LIGHT
NRL	MR. J. D. PURCELL	EUV DISPLAY TELESCOPE	SOLAR DISPLAY IN EUV FOR MAIN TELESCOPE ORIENTATION
AS&E	DR. R. GIACCONI	X-RAY IMAGE DISSECTOR TUBE	X-RAY FLUX DETECTOR TO ORIENT X-RAY TELESCOPE
GSFC	MR. J. E. MILLIGAN	PROPORTIONAL COUNTERS	X-RAY FLUX DETECTOR TO ORIENT X-RAY TELESCOPE
MSFC	N.A.	HYDROGEN-ALPHA DISPLAY TELESCOPE	PRIMARY DISPLAY OF SOLAR DISC FOR TARGET SELECTION BY ASTRONAUT

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FIGURE 73