Table 5-2
EOS AM-1 Standard Data Products
Preliminary

Instrument	Product Name	Units	Accuracy Abs :: Rel	Temporal Resolution	Horizontal Resol. :: Cover. *	Vertical Resol. :: Cover. **
MODIS	Cloud Product			1-2/day	5, 50 km :: G	N/A :: Cloud
	Surface Reflectance			1-9/day	1 km :: Land	N/A :: Sfc
	Snow Cover	km^2	10% ::	1/day	1 km :: Land	N/A :: Sfc
	Land_sfc Temperature/Emissivity			1/day, 1/wk, 1/mo	1 km :: Land/R	N/A :: Sfc
	Land_Cover Type	categorical fraction	10% ::	1/(3 mo)	1 km :: Land	N/A :: Sfc
	Geolocation Fields			1/day	1 km :: G	
	Pigment Concentration, "CZCS"	mg/m^3	100% (Global); 35% (Case I, Clear Atmos) :: TBD	1/day, 1/wk, 1/mo	1, 20 km :: Ocean/G,R,L	N/A ::
	Level-2 Radiance, Water-leaving	mW/cm^2/sr/μm	0.0015 ::	1/day, 1/wk, 1/mo	1 km :: Ocean/R,L	N/A :: Sfc
	PAR		5-10% ::	1/day [d]	1 km :: Ocean/G	N/A :: Sfc, Atmos

* G, R, and L represent Global, Regional, and Local Coverage, respectively.

** TOA, Trop, Atmos, and Sfc represent Top of Atmosphere, Troposphere, Atmosphere (Troposphere & Stratosphere), and Surface, respectively.

Note: These standard data products are preliminary pending negotiation and agreement with the responsible EOS investigators.

Table 5-2
EOS AM-1 Standard Data Products
Preliminary

Instrument	Product Name	Units	Accuracy Abs :: Rel	Temporal Resolution	Horizontal Resol. :: Cover. *	Vertical Resol. :: Cover. **
MODIS	Sea_sfc Temperature (SST)	K	0.3-0.5 K ::	1/day, 1/wk, 1/mo	1 km :: Ocean/L	N/A :: Sfc
MOPITT	Level-1B Radiance (+ Ancillary Data including CR Pressure)	W/m^2/sr/μm		1 view/0.4 sec	22 km :: G	:: Atmos
	CH4 Column (Total Burden)	ppbv	1% :: 1%	1 view/0.4 sec	25 km :: G	Column :: Atmos
	CO Profiles	ppbv	10% :: 10%	1 view/0.4 sec	25 km :: G	4 km :: 0-15 km
	CO Column (Total Burden)	ppbv	10% :: 10%	1 view/0.4 sec	25 km :: G	Column :: Atmos

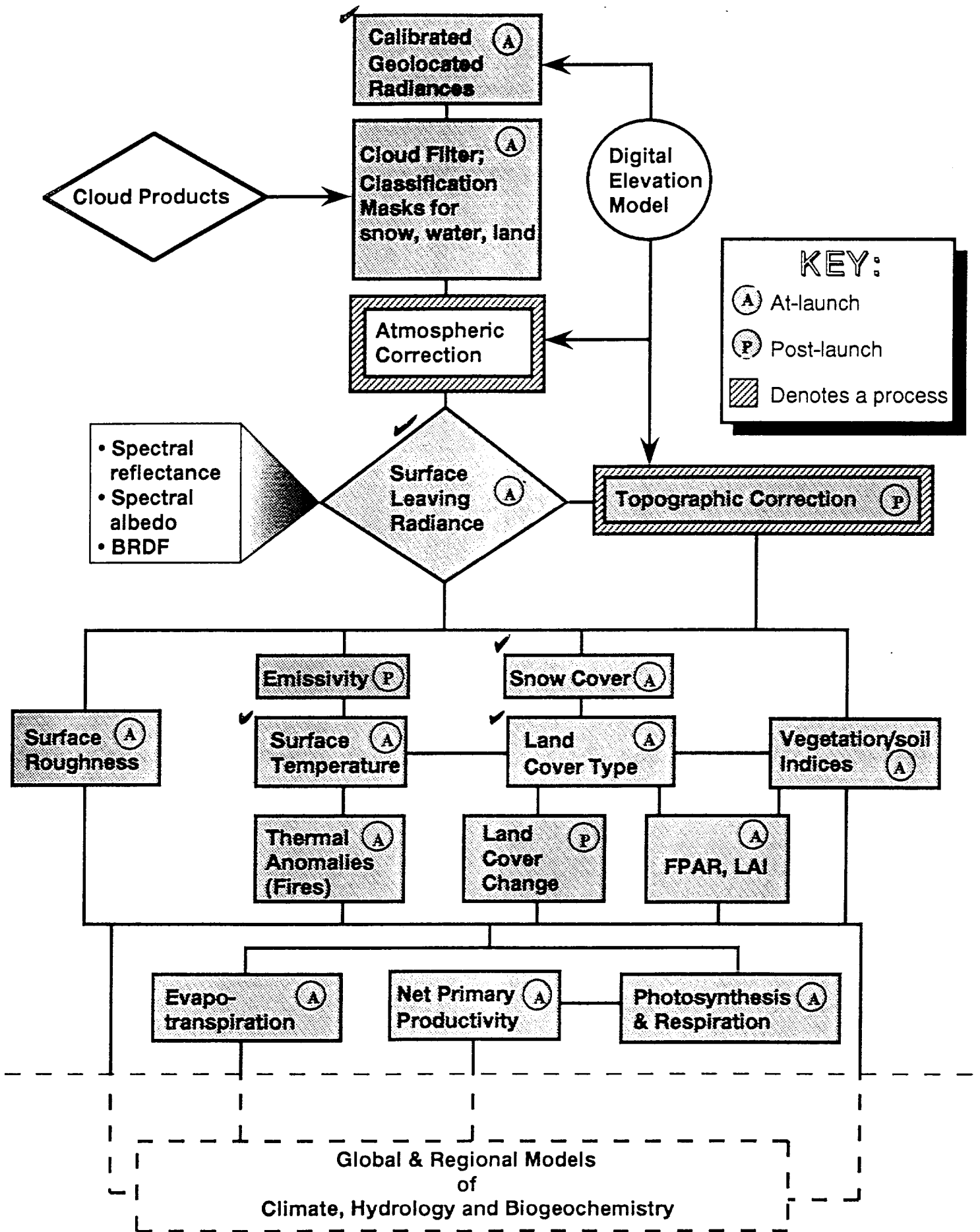*   G, R, and L represent Global, Regional, and Local Coverage, respectively.

**   TOA, Trop, Atmos, and Sfc represent Top of Atmosphere, Troposphere, Atmosphere (Troposphere & Stratosphere), and Surface, respectively.

Note: These standard data products are preliminary pending negotiation and agreement with the responsible EOS investigators.

Simplified Land Data Products Interrelations

Calibrated Geolocated Radiances (A)

Cloud Products

Cloud Filter; Classification Masks for snow, water, land (A)

Digital Elevation Model

KEY:
- (A) At-launch
- (P) Post-launch
- Denotes a process

Atmospheric Correction

- Spectral reflectance
- Spectral albedo
- BRDF

Surface Leaving Radiance (A)

Topographic Correction (P)

Emissivity (P)

Snow Cover (A)

Surface Roughness (A)

Surface Temperature (A)

Land Cover Type (A)

Vegetation/soil Indices (A)

Thermal Anomalies (Fires) (A)

Land Cover Change (P)

FPAR, LAI (A)

Evapo-transpiration (A)

Net Primary Productivity (A)

Photosynthesis & Respiration (A)

Global & Regional Models of Climate, Hydrology and Biogeochemistry

Simplified Atmosphere Data Products Interrelations

Simplified Ocean Data Products Interrelations

KEY:
- (1) MODIS at-launch product number
- (S) SeaWiFS at-launch product
- (Sp) SeaWiFS post-launch product
- (A) AVHRR product

Level 1A Radiances

Cloud, Land/water Masks (1) (S)

"CZCS" Pigments (2) (S)

Maximum Sea Ice Cover

Atmospheric Correction

Wind, water vapor, ozone, pressure, sfc air temperature

Interim Products (4) (S)
- Total backscatter
- Absorption Coeffs
- Ocean Aerosol Properties
- Atmos. H_2O Vapor
- Clear Water epsilon

Water Leaving Radiance (3) (S)

Calibration Data Sets (8) (S)

Chlorophyll Fluorescence (5)
- Line height
- Line curve
- Efficiency

Pigments and Chlorophyll a (7) (S)
- Chlorophyll_a pigment conc., Case I
- Chlorophyll_a pigment conc., Case II

Ocean Water Attenuation (13) (S)
- 490 nm
- 520 nm

Suspended Solids (10) (Sp)

Organic Matter (11) (Sp)
- Particulate
- Dissolved

Coccoliths (12) (Sp)

PAR (9) (S)

Fluorescence Efficiency (6)

SST (15) (A)

Primary Productivity (14) (Sp)

Biogeochemistry and Marine Ecosystems

Ocean-Atmospheric coupled Models

Heat Storage

Flow Fields Flow Visualization