NESDIS Consolidated Products List
12/14/94

III - Experimental, Developmental, and Future Products (INC. NOAA KLM SERIES)

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NESDIS Consolidated Products List 12/14/94

Category: Atmospheric Thermodynamic Soundings
Experimental, Developmental, and Future Products

PRODUCT	SATELLITE	SENSORS	ACCURACY	HORIZONTAL RESOLUTION	VERTICAL RESOLUTION	GRID SIZE	COVERAGE	FREQUENCY	PRIMARY CUSTOMER	PRODUCT OVERSIGHT
1. Vertical Temperature Profiles (Point Temperatures) .1, .2, .5, 1.0, 1.5, 2, 3, 4, 5, 7, 10, 15, 20, 25, 30, 50, 60, 70, 85, 100, 115, 135, 150, 200, 250, 300, 350, 400, 430, 475, 500, 570, 620, 700, 780, 850, 920, 950, and 1000mb.	POES	HIRS/2 MSU SSU	SFC-700mb 2.5°K 700mb-TROP 2.0°K TROP-2mb 2.5°K 2-0.1mb 3.0°K OVER WATER SFC-TROP 2.0°K TROP-2mb 2.5°K 2-0.1mb 3.0°K	80km at Nadir	Minimum of 40 Levels from SFC to 0.1mb	N/A	Global	Orbitally	NMC USAF/Navy	Soundings POP
2. Vertical Water Vapor Profiles ($g\ kg^{-1}$) 300, 350, 400, 430, 475, 500, 570, 620, 670, 700, 780, 850, 920, 950, and 1000mb.	POES	HIRS/2 MSU SSU	SFC-700mb 2.5 g/kg 700mb-TROP 2.0 g/kg TROP-2mb 2.5 g/kg 2-0.1mb 3.0g/kg OVER WATER SFC-TROP 2.0 g/kg TROP-2mb 2.5 g/kg 2-0.1mb 3.0 g/kg	80km at Nadir	Minimum of 15 Levels from SFC to 0.1mb	N/A	Global	Orbitally	NMC USAF/Navy	Soundings POP

Category: Atmospheric Thermodynamic Soundings
Experimental, Developmental, and Future Products

continued

PRODUCT	SATELLITE	SENSORS	ACCURACY	HORIZONTAL RESOLUTION	VERTICAL RESOLUTION	GRID SIZE	COVERAGE	FREQUENCY	PRIMARY CUSTOMER	PRODUCT OVERSIGHT
3. Total Precipitable Water (cm)	POES (K,L,M)	AMSU HIRS/3 AVHRR/3	land: ±0.6cm water: ±0.3cm	40km at Nadir	N/A	N/A	Global	Orbitally	NMC USAF/Navy	Soundings POP
4. Layer Precipitable Water (mm)	POES (K,L,M)	AMSU HIRS/3 AVHRR/s	land: ±20% water: ±10%	20km at Nadir	3 Layers SFC-300mb	N/A	Global	Orbitally	NMC USAF/Navy Intn'l Global NWP Ctrs	Soundings POP
5. Clear Equivalent Blackbody Temperatures for 20 HIRS, 20 AMSU, and 3 AVHRR Channels (°K)	POES (K,L,M)	AMSU HIRS/3 AVHRR/3	±1°K	40km at Nadir	N/A	N/A	Global	Orbitally	NMC USAF/Navy Intn'l Global NWP Ctrs	Soundings POP
6. Thickness Values (m) By product	POES (K,L,M)	AMSU HIRS/3 AVHRR/3	Equivalent to accuracy goal for Layer Mean Virtual Temperature	500km	Maximum of 20 layers SFC-0.4mb	N/A	Global	Orbitally	GTS	Soundings POP
7. Layer Mean Virtual Temperatures (°K)	POES (K,L,M)	AMSU HIRS/3 AVHRR/3	0.25°K more accurate than Temperature Profile Layers	40km at Nadir	Maximum of 20 layers SFC-0.4mb	N/A	Global	Orbitally	NMC USAF/Navy Intn'l Global Fcst Ctrs	Soundings POP
8. Tropopause Temperature (°K)	POES (K,L,M)	AMSU HIRS/3 AVHRR/3	±1.5 to 2.5°K	40km at Nadir	N/A	N/A	Global	Orbitally	NMC USAF/Navy Intn'l Global NWP Ctrw	Soundings POP
9. Tropopause Pressure (mb)	POES (K,L,M)	AMSU HIRS/3 AVHRR/3	±40mb	40km at Nadir	N/A	N/A	Global	Orbitally	NMC USAF/Navy Intn'l Global NWP Ctrs	Soundings POP

Category: Atmospheric Thermodynamic Soundings
Experimental, Developmental, and Future Products continued

PRODUCT	SATELLITE	SENSORS	ACCURACY	HORIZONTAL RESOLUTION	VERTICAL RESOLUTION	GRID SIZE	COVERAGE	FREQUENCY	PRIMARY CUSTOMER	PRODUCT OVERSIGHT
10. Vertical Temperature Profiles (°K)	GOES (I,J,K)	Sounder	±2.5°K	30-50km	40 Levels 1000-0.1mb	80km	CONUS; Adj.Oceans	1 per hour; 8 per day	NMC	Soundings POP
11. Layer Mean Temperature (°K)	GOES (I,J,K)	Sounder	±2.5°K	30-50km	14 Layers 1000-10mb	80km	CONUS; Adj.Oceans	1 per hour; 8 per day	NMC	Soundings POP
12. Vertical Moisture Profiles - Specific Humidity (g/kg)	GOES (I,J,K)	Sounder	±30%	30-50km	15 Layers 1000-300mb	80km	CONUS; Adj.Oceans	1 per hour; 8 per day	NMC	Soundings POP
13. Layer Precipitable Water (mm)	GOES (I,J,K)	Sounder	±20%	30-50km	3 Layers 1000-300mb	80km	CONUS; Adj.Oceans	1 per hour; 8 per day	NMC	Soundings POP
14. Total Precipitable Water (mm)	GOES (I,J,K)	Imager	±10%	8km	N/A	8km	CONUS; Full Disc	1 per hour 4 per day	NMC	Soundings POP
15. Channel Brightness Temperature (°K)	GOES (I,J,K)	Sounder	NEΔT values per channel	30-50km	N/A	N/A	CONUS; Adj.Oceans	1 per hour 8 per day	NMC	Soundings POP
16. Lifted Index	GOES (I,J,K)	Imager	±2°K	8km	N/A	8km	CONUS; Full Disc	1 per hour 4 per day	NMC	Soundings POP
17. Geopotential Height (m)	GOES (I,J,K)	Sounder	TBD	30-50km	14 Layers SFC-10mb	80km	CONUS; Adj.Oceans	1 per hour 8 per day	NMC	Soundings POP
18. Microbust Risk	GOES (I,J,K)	Sounder	TBD	8km	N/A	TBD	CONUS	TBD	NSSFC CWSU	Soundings POP
19. Interactive Moisture Analysis (Bogus)	GOES (I,J,K)	Imager	N/A	8km	6 Levels	TBD	Partial Disk Over Water	4 per day	NMC	Soundings POP
20. * Satellite Soundings (Temperature, Dewpoint, Height)	GOES (I,J,K)	Sounder			40 Layers		CONUS Adj. Oceans	Once per hour	AWIPS	Soundings POP

* Alaska requires soundings from polar orbiters

NESDIS Consolidated Products List 12/14/94

Category: Atmospheric Winds
Experimental, Developmental, and Future Products

PRODUCT	SATELLITE	SENSORS	ACCURACY	HORIZONTAL RESOLUTION	VERTICAL RESOLUTION	GRID SIZE	COVERAGE	FREQUENCY	PRIMARY CUSTOMER	PRODUCT OVERSIGHT
21. Low-Level Winds (Picture Triplet)	METEOSAT	Imager	$\pm$2-6ms^{-1}	5km	N/A	2.5 degrees	Hemispheric	Every 6 hours	NMC	Winds POP
22. Cloud Motion Winds (Manual)	METEOSAT	Imager	SFC-700mb $\pm$2-6ms^{-1} 700-100mb $\pm$5-8ms^{-1}	5km	~25mb	N/A	Hemispheric	Every 6 hours	NMC	Winds POP
23. Cloud Motion Autowinds	METEOSAT	Imager	SFC-700mb $\pm$2-6ms^{-1} 700-100mb $\pm$5-8ms^{-1}	5km	~25mb	N/A	Hemispheric	Every 6 hours	NMC	Winds POP
24. Water Vapor Motion Autowinds	METEOSAT	Imager	400-100mb $\pm$6-9ms^{-1}	5km	~50mb	N/A	Hemispheric	Every 6 hours	NMC	Winds POP
25. Low-Level Winds (Picture Triplet)	GOES (I,J,K)	Imager	$\pm$2-6ms^{-1}	80-90km	N/A	N/A	Hemispheric	Every 6 hours	NMC	Winds POP
26. Cloud Motion Winds (Manual)	GOES (I,J,K)	Imager	SFC-700mb $\pm$2-6ms^{-1} 700-100mb $\pm$5-8ms^{-1}	80-90km	~25mb	N/A	Hemispheric	Every 6 hours	NMC	Winds POP
27. Cloud Motion Autowinds	GOES (I,J,K)	Imager	SFC-700mb $\pm$2-6ms^{-1} 700-100mb $\pm$5-8ms^{-1}	80-90km	~25mb	N/A	Hemispheric	Every 6 hours	NMC	Winds POP
28. Water Vapor Motion Autowinds	GOES (I,J,K)	Imager	400-100mb $\pm$6-9ms^{-1}	80-90km	~50mb	N/A	Hemispheric	Every 6 hours	NMC	Winds POP
29. Gradient Winds	GOES (I,J,K)	Sounder	$\pm$5-7ms^{-1}	80-90km	3 Levels (700,500, 400mb)	TBD	Regional	Every 6 hours	NMC	Winds POP
30. Oceanic Surface Wind Speeds (Experimental Algorithms)	DMSP	SSM/I	TBD	25km	N/A	Master Map Format	Global	Every 6 hours (two S/C)	NMC NHC CoastWatch	Winds POP

NESDIS Consolidated Products List 12/14/94

Category: **Ozone**
Experimental, Developmental, and Future Products

PRODUCT	SATELLITE	SENSORS	ACCURACY	HORIZONTAL RESOLUTION	VERTICAL RESOLUTION	GRID SIZE	COVERAGE	FREQUENCY	PRIMARY CUSTOMER	PRODUCT OVERSIGHT
31. Total Ozone (Dobson Units)	POES (K,L,M)	HIRS/3	±15% tropical ±30% polar	40km at Nadir	N/A	N/A	Global	Orbitally	CAC NASA AF/Navy Intn'l Global NWP Ctrs	Ozone POP
32. Total Ozone (Dobson Units)	POES (K,L,M)	SBUV/2	±1.0%	200km at sub-satellite	N/A	N/A	Global	Daily	CAC NASA	Ozone POP
33. Level Ozone (Mixing Ratio)	POES (K,L,M)	SBUV/2	±5%	200km at sub-satellite	16 Levels	N/A	Global	Daily	CAC NASA	Ozone POP
34. Layer Ozone (Dobson Units)	POES (K,L,M)	SBUV/2	±5%	200km at sub-satellite	11 Layers	N/A	Global	Daily	CAC NASA	Ozone POP

NESDIS Consolidated Products List 12/14/94

Category: **Aerosol**
Experimental, Developmental, and Future Products

PRODUCT	SATELLITE	SENSORS	ACCURACY	HORIZONTAL RESOLUTION	VERTICAL RESOLUTION	GRID SIZE	COVERAGE	FREQUENCY	PRIMARY CUSTOMER	PRODUCT OVERSIGHT
35. Optical Thickness Observations	POES (K,L,M)	AVHRR/3	.02-.03 ODU	8km	N/A	8-25KM	Global	Every 6 hours	NASA CAC USAF/Navy Universities	Image-Cloud-Aerosol POP (ICAPOP)
36. Global Size Distribution Index (v)*	POES (K,L,M)	AVHRR/3	▲ v* 20.5 ODU	8km	N/A	8-25km	Global	Every 6 hours	NASA CAC USAF/Navy Universities	ICAPOP
37. Global Analyzed Aerosol Field	POES (K,L,M)	AVHRR/3	.02-.03 ODU	N/A	N/A	1° | < 1°	Global	Once/weekly	NASA CAC USAF/Navy Universities	ICAPOP
38. Daily Summary File	POES (K,L,M)	AVHRR/3	.02-.03 ODU	N/A	N/A	10° x 10°	Global	Every 6 hours	NASA CAC USAF/Navy Universities	ICAPOP
39. Extreme Events Observation File	POES (K,L,M)	AVHRR/3	.02-.03 ODU	8km	N/A	N/A	Global	Every 6 hours	NASA CAC USAF/Navy Universities	ICAPOP
40. Monthly Mean Aerosol Field File	POES (K,L,M)	AVHRR/3	.05-.01 ODU	N/A	N/A	1° x 1°	Global	Once/monthly	NASA CAC USAF/Navy Universities	ICAPOP

*v -- Junge Power Law Exponent

NESDIS Consolidated Products List 12/14/94

Category: **Cloud/Image** Products
Experimental, Developmental, and Future Products

PRODUCT	SATELLITE	SENSORS	ACCURACY	HORIZONTAL RESOLUTION	VERTICAL RESOLUTION	GRID SIZE	COVERAGE	FREQUENCY	PRIMARY CUSTOMER	PRODUCT OVERSIGHT
41. ASOS Cloud Cover Supplement (Amount and Height)	GOES (I,J,K)	Sounder	Amount: ± 1 Category Height: ~5000 feet	Site Specific	Above 10,000 ft	N/A	CONUS	Every hour	NWS WFO's NMC NCDC Commercial	Image-Cloud-Aerosol POP (ICAPOP)
42. ASOS Mapped Cloud Cover Products (Amount and Height)	GOES (I,J,K)	Sounder/ Imager	Amount: ± 1 Category Height: ~5000 feet	TBD	TBD	50km	CONUS	Hourly	NWS WFO's NMC GEWEX	ICAPOP
43. Hourly -- Clear Sky SFC Temp	GOES (I/M)	Imager	TBD	50km	N/A	0.5°	U.S.	Hourly	GEWEX NMC	ICAPOP
44. Convective Cloud Top Height (feet)	GOES (I,J,K)	Imager	±5000 feet	10km	1000-100mb	N/A	Hemispheric	Every 6 hours	NMC	ICAPOP
45. Effective Cloud Amount (emmisivity * amount)	GOES (I,J,K)	Imager	±10%	10km	1000-100mb	N/A	Hemispheric	Every 6 hours	NMC	ICAPOP
46. Cloud Top Temperature (°K)	POES (K,L,M)	AVHRR/3 HIRS/3 AMSU	1.0-5.0°K, increasing with decreasing cloud amount	40km at Nadir	N/A	N/A	Global	Orbitally	CAC Universities Research USAF/Navy Intn'l Global Forecast Ctr	ICAPOP
47. Cloud Top Pressure (mb)	POES (K,L,M)	AVHRR/3 HIRS/3 AMSU	15-60mb, increasing with decreasing cloud amount	40km at Nadir	N/A	N/A	Global	Orbitally	CAC Universities Research USAF/Navy Intn'l Global Forecast Ctr	ICAPOP
48. Cloud Amount (%)	POES (K,L,M)	AVHRR/3 HIRS/3 AMSU	±10%, increasing with decreasing cloud amount	40km at Nadir	N/A	N/A	Global	Orbitally	NMC CAC Universities Research	ICAPOP
49. Cloud Composition (type)	POES (K,L,M)	AVHRR/3 AMSU	TBD	40km at Nadir	N/A	N/A	Global	Orbitally	NMC CAC Universities Research	ICAPOP
50. Fog/Low Cloud (Map) (Night time)	GOES	Imager Chs 3 & 4	TBD	4km	N/A	N/A	CONUS or NH	Hourly	NWS	ICAPOP

Category: **Cloud/Image** Products
Experimental, Developmental, and Future Products

continued

PRODUCT	SATELLITE	SENSORS	ACCURACY	HORIZONTAL RESOLUTION	VERTICAL RESOLUTION	GRID SIZE	COVERAGE	FREQUENCY	PRIMARY CUSTOMER	PRODUCT OVERSIGHT
51. DSDR1T Full Resolution Archive (20 parameters)	POES (K,L,M)	HIRS/3	±15% 20-70mb	40km at Nadir	N/A	N/A	Global	Orbitally	CAC Universities Research	Image-Cloud-Aerosol POP
52. Master Map of Cloud: - Amount - Top Temperature - Top Pressure	POES (K,L,M)	TOVS	10% 1-5k 15-60mb	N/A	N/A	Master Map Format	Global each Hemisphere day/night	Daily Monthly	NMC NCDC Universities Research	ICAPOP
53. Gridded Map of Cloud: - Amount - Top Temperature - Top Pressure	POES (K,L,M)	TOVS	±10% 1-5k 15-60mb	N/A	N/A	1° x 1° Equal area	Global day/night	Daily Monthly	NMC NCDC Universities Research	ICAPOP
54. Full Resolution Archive of Cloud Parameters 1b	POES (K,L,M)	AVHRR/3	N/A	4km Pixels	N/A	N/A	Global	Orbital	NMC NCDC Universities Research	ICAPOP
55. DSD1RT Full Resolution Archive	POES (K,L,M)	TOVS	N/A	20km Pixels	N/A	N/A	Global	Orbital	NMC NCDC Universities Research	ICAPOP
56. Master & Grid made of Liq/Ice Cont.	POES (K,L,M)	AMSU	10-20%	N/A	N/A	Mastermap 1° x 10 Equal area	Global	Daily Monthly	NMC NCDC Universities Research	ICAPOP
57. Map of: - Total Cloud Amount - Cloud Amount - Cloud Top Pressure - Cloud Emissivity - Cloud Optical Thickness - Cloud Type - Clear Sky Radiances - Part size - Liq/Ice Cont.	POES (K,L,M)	AVHRR/3 (with HIRS/3 & AMSU Analysis)	5% 10% 50mb 0.1 0.5 N/A 5% 10% 20-30%	N/A	3 Layers	10 x 1° Equal area	Global day/night	Daily Monthly	NMC NCDC Universities Research	ICAPOP

NESDIS Consolidated Products List 12/14/94

Category: **Cloud/Image** Products
Experimental, Developmental, and Future Products

continued

PRODUCT	SATELLITE	SENSORS	ACCURACY	HORIZONTAL RESOLUTION	VERTICAL RESOLUTION	GRID SIZE	COVERAGE	FREQUENCY	PRIMARY CUSTOMER	PRODUCT OVERSIGHT
58. PSG Composite (Polar-stereographic) - Super National - Alaska National - Hawaii National - Puerto Rico National - Northern Hemisphere	GOES (I/M)	Imager (Chs 1,2, 3,4,5)		1km,4km,8km 14km 24km			00N-75N 170E-30W	30 Mins	AWIPS	ICAPOP
59. Lambert Conformal CONUS Sectors - Eastern Sector - Western Sector	GOES (I/M)	Imager (Chs 1,2, 3,4,5)		1km,4km,8km			36N-90N 20N-55N 105W-60W 20N-55N 135W-90W	5,15,30 Mins	AWIPS	ICAPOP
60. MERC Sectors - Hawaii Sector - Puerto Rico Sector	GOES (I/M)	Imager (Chs 1,2, 3,4,5)		1km,4km,8km			10N-28N 166W-146W 9N-27N 77W-58W	15,30 Mins	AWIPS	ICAPOP
61. PSG Alaska Sector	GOES (I/M)	Imager (Chs 1,2, 3,4,5)		2km,8km,16km			43N-75N 170E-120W	15,30 Mins	AWIPS	ICAPOP

Category: **Precipitation** Products
Experimental, Developmental, and Future Products

PRODUCT	SATELLITE	SENSORS	ACCURACY	HORIZONTAL RESOLUTION	VERTICAL RESOLUTION	GRID SIZE	COVERAGE	FREQUENCY	PRIMARY CUSTOMER	PRODUCT OVERSIGHT
62. Interactive Precipitation Estimates (IFFA)	METEOSAT GOES-IJK	Imager	±30%	4km	N/A	N/A	CONUS Puerto Rico	30-60 minutes, as needed	NWS WFO's NMC	Precipitation POP
63. Automated GOES-8 Technique	GOES-8	Imager	±30%	4km	N/A	N/A	CONUS	30-60 minutes	NWS WFO's NMC	Precipitation POP
64. Modified Automated Convective-Stratiform Technique	GOES METEOSAT GMS	Imager	±30%	4km	N/A	N/A	Global	30-60 minutes	NMC WFOs NWS	Precipitation POP
65. Artifial Neural Network	GOES METEOSAT GMS	Imager	±30%	4km	N/A	N/A	Regional	30-60 minutes	NWS WFOs NMC	Precipitation POP
66. Instantaneous Rainfall Rate (mm) (experimental algorithm)	DMSP POES-KLM	SSM/I AMSU	±30%	4km	N/A	N/A	Global	Every 6 hours	CAC NMC	Precipitation POP
67. Categorical Rainfall Estimates	POES (K,L,M)	AMSU AVHRR/3	4 Categories	15-30km	N/A	N/A	Global	2-4 per day	NMC	Percipitation POP
68. GPI Histograms	GOES (I,J,K)	Imager	20% H_2O 50% Land	2½x 2½° Lat	N/A	N/A	Global Tropics	PENTAD 5 days	CAC	Precipitation POP
69. Soil Wetness Index	DMSP	SSM/I		30km	N/A	N/A	Global	2-4 per day	USDA CAC	Percipitation POP
70. Instant Rainfall Rate	DMSP	SSM/I	50%	15-50km	N/A	N/A	REgional	6 Hours	NHC SAB	Percipitation POP
71. Satellite Rainfall Est for Hydrologial Modelling	METEOSAT	Imager	N/A	5km	N/A	512 x 512	Nile River Basin	Daily	OH and Egypt	Precipitation POP

NESDIS Consolidated Products List 12/14/94

Category: **Radiation Budget** Products
Experimental, Developmental, and Future Products

PRODUCT	SATELLITE	SENSORS	ACCURACY	HORIZONTAL RESOLUTION	VERTICAL RESOLUTION	GRID SIZE	COVERAGE	FREQUENCY	PRIMARY CUSTOMER	PRODUCT OVERSIGHT
72. Daily -- Daytime Outgoing Longwave Radiation	POES (K,L,M)	AVHRR/3 HIRS/3		N/A	N/A	2.5° x 2.5° LAT/LON 125 x 125 Polar Stereo.	Global	Daily	CAC NASA Commmerical Academia	Radiation Budget POP
73. Daily -- Nighttime Outgoing Longwave Radiation	POES (K,L,M)	AVHRR/3 HIRS/3		N/A	N/A	Same as above	Global	Daily	CAC NASA Commercial Academia	Radiation Budget POP
74. Daily -- Average Outgoing Longwave Radiation	POES (K,L,M)	AVHRR/3		N/A	N/A	Same as above	Global	Daily	CAC NASA Commercial Academia	Radiation Budget POP
75. Daily -- Available Solar Energy	POES (K,L,M)	AVHRR/3	1 watts/m²	N/A	N/A	Same as above	Global	Daily	CAC NASA Commercial Academia	Radiation Budget POP
76. Daily -- Absorbed Solar Radiation	POES (K,L,M)	AVHRR/3	7 watts/m²	N/A	N/A	Same as above	Global	Daily	CAC NASA Commerical Academia	Radiation Budget POP
77. • Daily -- Albedo	POES (K,L,M)	AVHRR/3	0.56%	N/A	N/A	Same as above	Global	Daily	CAC NASA Commerical Academia	Radiation Budget POP
78. • Daily -- Net Radiation	POES (K,L,M)	AVHRR/3	7 watts/m²	N/A	N/A	Same as above	Global	Daily	CAC NASA Commercial Academia	Radiation Budget POP
79. Hourly -- Insolation/PAR (Photosynthetically Active Radiation (clear & cloudy)	GOES (I/M)	Imager	TBD	50km	N/A	0.5°	U.S.	Hourly	GEWEX NMC	Radiation Budget POP

• Possible deletion [met with CAC and Radiation Budget POP Co-chairs]

Category: **Radiation Budget** Products
Experimental, Developmental, and Future Products

continued

PRODUCT	SATELLITE	SENSORS	ACCURACY	HORIZONTAL RESOLUTION	VERTICAL RESOLUTION	GRID SIZE	COVERAGE	FREQUENCY	PRIMARY CUSTOMER	PRODUCT OVERSIGHT
80. Shortwave Radiation: -SFC downward diffuse (clear & cloudy) -SFC downward flux (clear) -SFC upward flux (clear & cloudy) -SFC upward flux (clear) -Top of atmosphere downward flux (clear & cloudy) -Top of atmosphere upward flux (clear & cloudy) -Top of atmosphere upward flux (clear)	GOES (I/M)	Imager	TBD	50km	N/A	0.5°	U.S.	Hourly	GEWEX NMC	Radiation Budget POP
81. Longwave Radiation: - SFC downward flux - Longwave cooling rate - Outgoing Longwave Radiation	GOES (I/M)	Imager	TBD	50km	N/A	0.5°	U.S.	Hourly	GEWEX NMC	Radiation Budget POP
82 Monthly -- Daytime Outgoing Longwave Radiation	POES (K,L,M)	AVHRR/3	5.0 Watts m^{-2}	N/A	N/A	2.5° x 2.5° LAT/LON 125 x 125 Polar Stereo	Global	Monthly	NASA Commerical Academia	Radiation Budget POP
83. Monthly -- Nighttime Outgoing Longwave Radiation	POES (K,L,M)	AVHRR/3	5.0 Watts m^{-2}	N/A	N/A	Same as above	Global	Monthly	NASA Commerical Academia	Radiation Budget POP
84. Monthly -- Average Outgoing Longwave Radiation	POES (K,L,M)	AVHRR/3	5.0 Watts m^{-2}	N/A	N/A	Same as above	Global	Monthly	NASA Commerical Academia	Radiation Budget POP

NESDIS Consolidated Products List 12/14/94

Category: **Radiation Budget** Products
Experimental, Developmental, and Future Products

continued

PRODUCT	SATELLITE	SENSORS	ACCURACY	HORIZONTAL RESOLUTION	VERTICAL RESOLUTION	GRID SIZE	COVERAGE	FREQUENCY	PRIMARY CUSTOMER	PRODUCT OVERSIGHT	CRITICAL DEPENDENCY
85. Monthly--Available Solar Energy	POES (K,L,M)	AVHRR/3	5.0 Watts m^{-2}	N/A	N/A	Same as above	Global	Monthly	NASA Commercial Academia	Radiation Budget POP	
86. Monthly--Absorbed Solar Radiation	POES (K,L,M)	AVHRR/3	5.0Watts m^{-2}	N/A	N/A	2.5° x 2.5° Lat/Lon 125 x 125 Polar Stereo	Global	Monthly	NASA Commercial Academia	Radiation Budget POP	
87. * Monthly--Albedo	POES (K,L,M)	AVHRR/3	0.555%	N/A	N/A	Same as Above	Global	Monthly	NASA Commercial Academia	Radiation Budget POP	
88. * Monthly -- Net Radiation	POES (K,L,M)	AVHRR/3	7.0 Watts m^{-2}	N/A	N/A	Same as Above	Global	Monthly	NASA Commercial Academia	Radiation Budget POP	

* Candidate for deletion

NESDIS Consolidated Products List 12/14/94

Category: Ocean Sciences
Experimental, Developmental, and Future Products

PRODUCT	SATELLITE	SENSORS	ACCURACY	HORIZONTAL RESOLUTION	VERTICAL RESOLUTION	GRID SIZE	COVERAGE	FREQUENCY	PRIMARY CUSTOMER	PRODUCT OVERSIGHT	CRITICAL DEPENDENCY
89. * Global SST Analysis (experimental)	POES	AVHRR	±0.5°C	N/A	N/A	0.5° x 0.5° LAT/LON	Global 80°N - 80°S	Twice per week	Navy NHC OPC CAC NMC	Ocean POP	Global SST OBS
90. Ocean Color Products	POES ADEOS	SEAWIFS OCTS		N/A	N/A		U.S. Coast	Orbitally	CoastWatch Sites NMC	Ocean POP	1B
91. ** Ocean Color Index	POES	AVHRR		1.2km			U.S. Estuaries		CoastWatch Sites	Ocean POP	
92. Pathfinder Global SST Reanalysis	POES	AVHRR		9km			Global		Climate & Global Change	Ocean POP	1B AVHRR
93. Climate & Global Change Products - Air-Sea Heat Fluxes - Wind Stress - Sea Ice Extent - Evaporation - Sea Level - Visible Reflectance							Global		Climate & Global Change NMC	Ocean POP	1B
94. SAR Quick Look Imagery (U.S. Coastal Waters)	ERS-1 RADARSAT	SAR	1 dB	20-240 m	N/A	N/A	Alaska Great Lakes	Orbitally	CoastWatch NIC SAA	Ocean POP	SAR Signal data

* - NMC is using this product operational
- Needs resources for operational implementation

** Candidate for deletion

Category: Ocean Sciences
Experimental, Developmental, and Future Products

continued

PRODUCT	SATELLITE	SENSORS	ACCURACY	HORIZONTAL RESOLUTION	VERTICAL RESOLUTION	GRID SIZE	COVERAGE	FREQUENCY	PRIMARY CUSTOMER	PRODUCT OVERSIGHT	CRITICAL DEPENDENCY
95. Antarctic SST	POES	AVHRR	±0.5°C	1km	N/A	N/A	50°W-70°W 65°S-40°S	2 times Daily	NMFS (Committee for Antarctic Living Marine Resources)	Ocean POP	1B/AVHRR
96. Ocean Surface Winds	ADEOS	Scattero-meter	±2m/s	25km	N/A	N/A	Global	Orbitally	NWS	Wind/Ocean POP	NSCATT 1B/AVHRR
97. Chesapeake Bay SST, Turbidity, and Ocean Color Climatology	POES	AVHRR	±0.5°C	1km	N/A	N/A	Chesapeake Bay	Once per Day	CB Program ORA	Ocean POP	1B/GOES/ AVHRR
98. Fog	GOES POES	Imagery AVHRR	1km 1km	N/A	N/A	N/A	U.S.	Once per Day	NMC	Ocean POP	1B/GOES/ AVHRR
99. SST	GOES	Imager		4km	N/A	N/A	Coastal U.S.		CoastWatch Sites	Ocean POP	1B/GOES
100. Cloud Mask	POES	AVHRR		1km	N/A	N/A	U.S. Coast	2 times daily	CoastWatch Sites	Ocean POP	1B/AVHRR/ HIRS

Category: **Land** Sciences
Experimental, Developmental, and Future Products

PRODUCT	SATELLITE	SENSORS	ACCURACY	HORIZONTAL RESOLUTION	VERTICAL RESOLUTION	GRID SIZE	COVERAGE	FREQUENCY	PRIMARY CUSTOMER	PRODUCT OVERSIGHT
101. Snow Cover Objective Analysis	POES (K,L,M)	AVHRR/3 AMSU	±10%	25km	N/A	N/A	Global	1 per week	CAC USDA Universities	Surface POP
102. Snow/Ice Cover (Experimental Algorithms)	DMSP	SSM/I	N/A	25km	N/A	N/A	Global	TBD	CAC NMC JIC	Surface POP
103. Daily Multisensor Snow Map	DMSP GOES POES	SSM/I Imager AVHRR	TBD	25km	N/A	N/A	Global Hemisphere	Daily	NMC	Surface POP
104. Vegetation Index	POES (K,L,M)	AVHRR/3	N/A	15km	N/A	N/A	Northern Hemisphere	1 per week	CAC NMC	Surface POP