

Harold Osuoff  
archive

August 25, 1992

TO: MODIS Science Team Members  
FROM: MODIS Science Team Leader  
SUBJECT: MODIS Data Products and Instrument Descope Candidates

You will be faxed very shortly material dealing with the items noted above. These are items which we have finally been given permission to release to the Science Team. The material has been developed during various EOS Project and Program efforts to examine alternatives for reducing costs. Both the MODIS descope and the reduced MODIS data products may be discussed in related, but larger contexts during the EOS Payload Panel meeting scheduled for September 8-10, 1992. I, therefore, need your reactions and recommendations to support me in my Payload Panel participation by September 4 at the latest. Please get these inputs to me via electronic mail or fax (GSFCMAIL ID: VSALOMONSON or Internet: vsalomonson@gsofcmail.nasa.gov; fax: 301-286-3884).

The reduced data product "rules" are rather well discussed in the cover letter by Dr. Asrar, the EOS Program Scientist. There will be a helpful analysis of MODIS data products sent to you by Al Fleig concurrently.

In the case of the MODIS instrument descopes, you will find relative dollar numbers to give you a feeling for the cost reduction impact of the various alternatives. These items have been discussed in the Project and with SBRC so they are credible alternatives.

The relative lateness of this submission to you may be a question. All I can say is that the timing was bound by administrative constraints defined by the highest NASA levels. The good news is that the material is finally available, albeit with a short response time relative to the Payload Panel meeting. Your best efforts in guiding me at the Payload Panel will be appreciated. I think we can expect to necessarily continue to work on these matters between now and the Science Team meeting in October in California.

Thank you for your efforts.

Vincent V. Salomonson  
MODIS Science Team Leader

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## *Memorandum*

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*To: Director of Earth Sciences/V. Salomonson/900*  
*From: MODIS Instrument Systems Manager/R. Weber/421*  
*Date: 08/25/1992*  
*Subject: Subject: Meeting on Risk Reduction Measures for MODIS*

A meeting to discuss cost and schedule risk reduction on the MODIS instrument contract was held today. The attendees were V. Salomonson/900, C. Scolese/421, B. Guenther/935, W. Barnes/970, K. Anderson/422, and R. Weber/421.

Mr. A. Mika of SBRC recently commented that MODIS is in much better shape at one year than was the first Thematic Mapper. This is good. However, it must be recalled that the final TM cost was far above the original TM contract price, and the EOS program cannot afford such growth.

C. Scolese understands that D. Diner and J. Barker expect to resample the MISR and MODIS data. This expectation makes it hard to justify the very difficult and expensive band-to-band registration requirements on MODIS. A further challenge to the present registration requirement is that calibration accuracy is reduced by the Modulation Transfer Function (MTF) for scenes with much spatial content. Recent SBRC analyses suggest that MTF is much more significant than registration for band-to-band radiometric accuracy.

For many months, the highest priority concern of SBRC has been registration. We have recently added to the contract a requirement for crosstrack adjustment, which will allow fine tuning of the sample timing and provide crosstrack registration to within 25 meters. Registration remains their highest risk concern, even with the adjustable crosstrack registration between focal planes. This risk is reflected in item numbers 7 and 8 on the attached list.

The second highest priority concern of SBRC is performance of longwave detectors, both photovoltaic and photoconductive. This risk is reflected in item numbers 5 and 6 on the attached list.

SBRC has identified several opportunities in which early procurement of parts/components for later MODIS models, concurrent with procurement for the first models, will produce large savings.

One of the most effective risk reduction measures will be to accept certain cases in which the instrument falls short of the spec as built, rather than insisting that SBRC rework it every time. In order for this to be a practical approach, we need a joint Science/Management Performance Review Team, to permit rapid decisions on the acceptability of sub-specified performance. When instrument integration and testing are underway, it is probable that some specifications will not be satisfied fully. Flexibility to accept reduced performance quickly, in selected cases, can avoid the direct costs of rework and the even larger costs of schedule delay during rework.

An effective team for prompt decisions will necessarily involve only a small number of scientists and managers. If this team cannot be established, greater relaxation in requirements must be instituted now.

Activities at GSFC and SBRC have developed lists of risk reduction options. The attached list contains the most attractive of the options on our longer lists, from the joint standpoint of potential saving and programmatic impact. Multiple variations are offered for some options. The dollars shown are rough estimates, including SBRC and GSFC judgments regarding both immediate contract savings, and generally much larger overrun risk reductions. A large subset of this list constitutes an action plan consistent with current fiscal realities.

It is clear that several of these science options must be implemented now, in order to prevent them from consuming inordinate resources, and thereby impacting science much more severely later. This list should be prioritized, considering both science and cost impacts.



Richard R Weber  
MODIS Instrument Systems Manager

cc: C. Scolese  
K. Grady/421  
W. Barnes/970  
B. Guenther/970  
K. Anderson/970

## Potential AM-1 Cost Reduction Measures

Item Number	Baseline	Cost Reduction Measure / Impact	Requirement Affected	Schedule Risk	Max Savings
<b>Descopes Recently Implemented</b>					
1	Specification paragraph 3.1.4.4 required Structural/Thermal Model.	Delete thermal aspects of model.			\$0.6M
2	Specification paragraph 3.3.5 required mapping the polarization of all bands.	Delete polarization requirements and measurements for bands 20 through 36.			\$0.075M
3	GIIS ±0.05 kg mass accuracy ±5 mm center of mass ±10% moment of inertia	Relax mass-properties requirements in the GIIS to: ±2.3 kg mass accuracy ±15 mm center of mass ±25% moment of inertia Impact: SBRC must procure new measurement equipment to meet current requirements.	GIIS		\$0.17M
4	CDRL 509 5 copies of all configured drawings	Reduce number of delivered drawings from 5 to 2 and deliver those as aperture cards only. Impact: Inconsequential.	CDRL 509	None	\$0.02M
<b>Descope Requirements / Design / Operations Under Consideration Assumes Recommendations are Adopted, Minimum Cost Savings Captured</b>					
5	Full detector performance at delivery. Every detector element meets the specifications.	(Alternate to 6) Allow less than 100% detector operability at the time of launch. Allow 2 dead elements per FPA, with no more than 1 dead element per band. Impact: Minor degradation in science. Less than 10% of degradation already accepted for end of life success.	Implicit	Reduced	\$4.35M
6	Full detector performance at delivery. Every detector element meets the specs.	(Alternate to 5) Relax detector operability requirements as follows: At delivery, two detector elements per spectral region (i.e., VIS, NIR, SWIR, MWIR, or LWIR) may have a response as much as 50% below the other detector elements for the same band. Impact: Minor science degradation		Reduced	\$0.75M

## Potential AM-1 Cost Reduction Measures

Item Number	Baseline	Cost Reduction Measure / Impact	Requirement Affected	Schedule Risk	Max Savings
7	Registration to 0.1 pixel	(Alternate to 8) Specify the stability of registration to 0.1 pixel, but relax the maximum absolute registration requirement to 0.3 pixel between warm focal planes or between cold focal planes, and 0.5 pixel from warm to cold focal planes. Impact: Major relaxation for SBRC. Moderate science degradation.	Spec 3.4.6.3	Large Reduction	\$4M
8	Spec 3.4.6.3 Registration	(Alternate to 7) Relax registration requirements by a factor of 1.5 between warm focal plane, and by a factor of 2 for warm to cold focal planes. Impact: Significant relaxation for SBRC. Moderate science degradation.		Large Reduction	\$1.1M
9	Spec 3.1.4.1 requires fully performing Engineering Model.	Revise the contract so that the specs for EM SNR, Polarization, radiometric accuracy and stability, registration and calibration requirements are reduced by 25%. Retain present specs as goals. Impact: Increases performance risk for PFM		Medium	\$2.6M
10	PAR Rev A 420-05-01 MIL-H-38534 S-311-70	Procure selected integrated circuits and hybrids to Grade 2 requirements instead of Grade 1. Cost of Grade 1 parts approximately 4 times that of Grade 2. Requires revision or wavier to PAR. Impact: Reduced testing may increase risk of failing to meet 5 year lifetime requirement.	PAR Rev A 420-05-01	Minimal	\$4.5M
11	420-05-01 MIL-STD 1246	Delete requirement to base and document derived contamination allowance levels on analyses. Impact:	PAR 9.2.1	Medium	\$0.5M
12	Spec 3.4.9.1 Inflight Calibration requirements for radiometric measurement	Delete radiometric function of SRCA Impact: Use ground truth, solar diffuser, and the moon	Spec 3.4.9.1		\$3M

## Potential AM-1 Cost Reduction Measures

Item Number	Baseline	Cost Reduction Measure / Impact	Requirement Affected	Schedule Risk	Max Savings
13	Specification paragraph 3.3.4.2 requires bands 31 and 32 to have extended range to 400K.	Eliminate the extended dynamic range in bands 31 and 32 required for fire detection. A 30% relaxation in detector performance can be accepted. If saturation is allowed at 324K instead of 400K. currently, consideration is being given to nonlinear gain to achieve the required performance over the extended dynamic range. Impact: Can't sense hot scenes			\$0.3M
14	GSFC must approve NSPARs 420-05-01 Sec 5	Approve NSPARs in-house and provide notification to GSFC Impact:	PAR 420-05-01 Sec 5	Medium	\$0.3M
15	Specification paragraph 3.4.9.3 requires solar diffuser stability monitor (SDSM)	Eliminate the requirement for SDSM. Elimination of the SDSM would be considered only if alternate approaches, such as ground truth or lunar calibration, can be used to monitor for diffuser degradation. Impact: Need to use ground truth and lunar data.			\$1.75M
16	Spec 3.3.5 Polarization spec 2.0%	Relax polarization spec to 2.3% Impact: Minor science degradation.		Reduced	\$0.125M
17	Spec requires full performance	(Overlaps some others.) Revise the contract so that the specs for PFM SNR, Polarization, radiometric accuracy and stability, registration and calibration requirements are reduced by 25%. Retain present specs as goals. Impact: Science would be degraded by TBD.		Reduced significantly	\$3M
18	Spec 3.3.3, 3.3.4	Remove observing bands 24, 25, 26, and 30. Impact: Eases focal plane requirements. Aids temperature of radiative cooler.			\$3M
19	Spec 3.3.3, 3.3.4	Remove observing bands 27 and 28 from the AM MODIS ; remove bands 33 and 35 from the PM MODIS. Impact: Eases focal plane requirements. Aids temperature of radiative cooler.			\$1.2M

### Potential AM-1 Cost Reduction Measures

Item Number	Baseline	Cost Reduction Measure / Impact	Requirement Affected	Schedule Risk	Max Savings
<b>The following economies cannot be implemented unless extra FY93 funds are identified</b>					
20		Procure EEE parts simultaneously for PF, FM1, and FM2. Impact: Requires additional \$5M in last 3 quarters of FY93.			\$5.4M
21	Focal Plane Assemblies (FPAs) produced sequentially. Only EM and PFM currently allowed to proceed now.	Assemble all flight model FPAs (PF, FM1, FM2, and Spares) and deliver concurrently. Impact: Requires additional \$150K in first half of FY93 and another \$300K in the last half of FY93.			\$1.3M
22	Scan mirrors for up through PFM allowed to proceed now.	Allow concurrent procurement of scan mirror for PF, FM1, and FM2. Impact: Requires additional \$200K during fourth quarter of FY93.			\$0.35M
23	Filters up through FM2 now on subcontract.	Increase current purchase orders for filters and dichroics to include quantity for FM3, FM4, and FM5. Impact: Requires additional \$35K during fourth quarter of FY92. Improves science by making filters more uniform between all flight units.			\$1M
24	FPA cables for EM and PFM allowed to proceed now.	Allow concurrent procurement of FPA cables for PF, FM1, and FM2. Impact: Requires additional 20K during second quarter of FY93.			\$0.02M



National Aeronautics and  
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Washington, D.C.  
20546

Reply to Attn of:

SE

AUG 12 1992

Vincent V. Salomonson  
Code 900  
Goddard Space Flight Center  
National Aeronautics and  
Space Administration  
Greenbelt, MD 20771

Dear *Vince*  
Dr. Salomonson:

I have enclosed copies of the original and revised scientific data products that were the subject of some discussion at the IWG in Keystone. The revised list was obtained from the original list by applying the following criteria: (i) focus on Level 1B radiance data, which is essential for producing the higher level data products; (ii) focus on Level 2 products that meet the established scientific priorities for EOS and are in a mature state of development; (iii) remove redundant data products; (iv) defer those scientific products that require further development due to either a lack of current measurement capabilities or a requirement for additional research beyond the launch of respective instruments; and (v) remove highly specific data products, which are required by individual investigators but may not have broad utility for the entire EOS and Global Change community. Redundant data products were identified through designated primary instrument teams that were encouraged to seek collaborative efforts with other interested teams.

I consider the enclosed revised list as a first draft which needs to be examined by you and the rest of the EOS investigators. If you would like to include additional products in the list, please give me a clear and concise scientific justification. This should include: (i) a brief statement of the scientific problem(s) to be addressed; (ii) current developmental status of the product(s); (iii) source(s) of existing data, if any, to generate the product(s); and (iv) the need for the product(s) if they could be construed as redundant with those identified on the revised list.

I envision that the number of data products will increase gradually as the EOS program matures, and that EOS investigators will work with the broader Earth science and Global Change communities to identify, produce, validate and promote additional products. The criteria for accepting additional standard products to EOSDIS will have to include both a clear and concise scientific justification and an acceptance by the EOS and broader Earth science communities.

Please return your comments/suggestions to me by Thursday, August 27, 1992. This will allow me to use your input during the discussions at the Payload Panel meeting in early September.

Sincerely,

  
Ghassem Asrar  
EOS Program Scientist

Enclosures:

Original List of Scientific Data Products  
Revised List of Scientific Data Products

DATA PRODUCT LIST - All Data Products

Essential Data products (Level 1 Requirements) are Italicised

Prod #	Product Name	Investigator	Instrument	Platform	DAAC	Time frame	Units	Accuracy Abs :: Rel	Temporal Resolution	Horizontal Resol. :: Domain	Vertical Resol. :: Domain
2274	<i>Irradiance, Solar, Total</i>	Willson	ACRIM	MO	GSFC	AL	W/m <sup>2</sup>	0.1% :: 0.0005%	1/(2 min)	N/A :: N/A	N/A :: TOA
2347	<i>Level-1B Radiance, AIRS</i>	Chahine	AIRS	PM	GSFC	AL	W/m <sup>2</sup> /sr/μm	0.2dg NEΔT :: 0.2dg NEΔT	2/day [d,n]	15 x 15 km :: G	N/A :: N/A
1718	<i>Wind Speed, Sea_sfc</i>	Aumann	AIRS/AMSU	PM	GSFC	PL	m/s		2/day [d,n]	50 km :: Ocean	N/A :: Sfc
2062	<i>Cloud Cover</i>	Chahine, Smith	AIRS/AMSU	PM	GSFC	AL	dimensionless	0.05 :: 0.025	2/day [d,n]	15 x 45 km :: G	N/A :: Cloud
2128	<i>Cloud Emissivity, IR Spectral (3-16um)</i>	Chahine, Smith	AIRS/AMSU	PM	GSFC	PL	dimensionless	0.05 :: 0.025	2/day [d,n]	15 x 45 km :: G	N/A :: Cloud
1423	<i>Cloud Height, Top</i>	Chahine, Smith	AIRS/AMSU	PM	GSFC	PL	km	0.5 km :: 0.25 km	2/day [d,n]	15 x 45 km :: G	N/A :: Cloud
2463	<i>Cloud Temperature, Top</i>	Chahine, Smith, Rizzi	AIRS/AMSU	PM	GSFC	AL	K	1K :: 0.5 K	2/day [d,n]	15 x 45 km :: G	N/A :: Cloud
2000	<i>Albedo, Land_sfc</i>	Gautier	AIRS/AMSU	PM	GSFC	PL	dimensionless		1/day	50 km :: Land	N/A :: Sfc
2176	<i>Radiative Flux, LW, Net</i>	Gautier	AIRS/AMSU	PM	GSFC	PL	W/m <sup>2</sup>	<15 :: TBD	1/day	50 km :: Land	N/A :: Sfc
2177	<i>Radiative Flux, LW, Net</i>	Gautier	AIRS/AMSU	PM	GSFC	PL	W/m <sup>2</sup>	<15 :: TBD	1/day	50 km :: Ocean	N/A :: Sfc
2232	<i>Radiative Flux, SW, Net</i>	Gautier	AIRS/AMSU	PM	GSFC	PL	W/m <sup>2</sup>	<15 :: <5	1/day	50 km :: Land	N/A :: Sfc
2233	<i>Radiative Flux, SW, Net</i>	Gautier	AIRS/AMSU	PM	GSFC	PL	W/m <sup>2</sup>	<10 :: <5	1/day	50 km :: Ocean	N/A :: Sfc
2209	<i>Radiative Flux, LW Spectral</i>	Gautier et al	AIRS/AMSU	PM	GSFC	AL	W/m <sup>2</sup>	<10 :: <5	2/day [d,n]	50 km :: Land	N/A :: Sfc
2210	<i>Radiative Flux, LW Spectral</i>	Gautier et al	AIRS/AMSU	PM	GSFC	AL	W/m <sup>2</sup>	<10 :: <5	2/day [d,n]	50 km :: Ocean	N/A :: Sfc
2113	<i>Land_sfc Emissivity, Spectral (3-16um)</i>	Revercomb et al	AIRS/AMSU	PM	GSFC	PL	dimensionless	0.05 :: 0.025	2/day [d,n]	15 x 45 km :: Land	N/A :: Sfc
2481	<i>Land_sfc Temperature, Skin</i>	Revercomb et al	AIRS/AMSU	PM	GSFC	AL	K	1.0K :: 0.5 K	2/day [d,n]	50 km :: Land	N/A :: Sfc
2539	<i>Land_sfc Temperature-Difference, Day-Night</i>	Revercomb et al	AIRS/AMSU	PM	GSFC	AL	K	0.5 K :: 0.25 K	2/day [d,n]	50 km :: G	N/A :: Sfc
2523	<i>Sea_sfc Temperature (SST)</i>	Revercomb et al	AIRS/AMSU	PM	GSFC	PL	K	0.5K :: 0.4K	2/day [d,n]	50 km :: Ocean	N/A :: Sfc
1893	<i>Cloud Ice Index</i>	Staelin et al	AIRS/AMSU	PM	GSFC	PL	dimensionless		2/day [d,n]	50 km :: G	N/A :: Cloud
1908	<i>Cloud Liq_water Content</i>	Staelin et al	AIRS/AMSU	PM	GSFC	PL	mm	0.1 :: 0.1	2/day [d,n]	50 km :: G	N/A :: Cloud
2921	<i>Ice Sheet Cover Index</i>	Staelin et al	AIRS/AMSU	PM	GSFC	PL	dimensionless		2/day [d,n]	50 km :: Land/Cryo	N/A :: Sfc
3018	<i>Snow Cover Index</i>	Staelin et al	AIRS/AMSU	PM	GSFC	PL	dimensionless		2/day [d,n]	50 km :: Land	N/A :: Sfc
3151	<i>Sea Ice Fraction, Open-water</i>	Staelin, Rosenkranz	AIRS/AMSU	PM	GSFC	PL	fraction	0.1 :: 0.1	2/day [d,n]	50 km :: Ocean/Cryo	N/A :: Sfc
1332	<i>O3 Total Burden</i>	Strow et al	AIRS/AMSU	PM	GSFC	PL		15% :: 10%	2/day [d,n]	50 km :: G	Column :: Atmos
1095	<i>CH4 Total Burden</i>	Strow, Revercomb	AIRS/AMSU	PM	GSFC	PL	ppb	175 :: 150	2/day [d,n]	250 km :: G	Column :: Atmos
1136	<i>CO Total Burden</i>	Strow, Revercomb	AIRS/AMSU	PM	GSFC	PL	ppb	20 :: 15	2/day [d,n]	250 km :: G	Column :: Atmos
1151	<i>CO2 Total Burden (Mixing Ratio)</i>	Strow, Revercomb	AIRS/AMSU	PM	GSFC	PL	ppm	25 :: 20	2/day [d,n]	50 km :: G	Column :: Atmos
1249	<i>N2O Total Burden</i>	Strow, Revercomb	AIRS/AMSU	PM	GSFC	PL	ppb	40 :: 30	2/day [d,n]	Zonal_ave :: G	Column :: Atmos
1828	<i>Humidity Profile</i>	Susskind et al	AIRS/AMSU	PM	GSFC	AL	g/kg	10% :: 5%	2/day [d,n]	50 km :: G	2 km :: Atmos
1869	<i>Precipitable Water</i>	Susskind et al	AIRS/AMSU	PM	GSFC	AL	mm	5% :: 3%	2/day [d,n]	50 km :: G	N/A :: Trop
1969	<i>Precipitation Index</i>	Susskind et al	AIRS/AMSU	PM	GSFC	PL	mm	2mm/hr :: 1mm/hr	2/day [d,n]	50 km :: G	N/A :: Trop
1562	<i>Stratosphere Height</i>	Susskind et al	AIRS/AMSU	PM	GSFC	PL	km	1 km :: 0.5 km	2/day [d,n]	50 km :: G	N/A :: Mid-atmos
1588	<i>Temperature Profile</i>	Susskind et al	AIRS/AMSU	PM	GSFC	AL	K	1.0K :: 0.4 K	2/day [d,n]	50 km :: G	1 km :: Atmos
3464	<i>Level-1B Radiance, ALT</i>	Fu	ALT	ALT	JPL	AL	dB				
3129	<i>Ocean Wave Height, Along-track</i>	Fu	ALT	ALT	JPL	AL	cm	>.5m, 10% ::		7 km :: Ocean	N/A :: Sfc
3112	<i>Sea Level Height, Along-track</i>	Fu	ALT	ALT	JPL	AL	cm	10 cm ::		7 km :: Ocean	N/A :: Sfc
3108	<i>Topographic Elevation, Sea_sfc</i>	Fu	ALT	ALT	JPL	AL	cm	5cm et al ::	1/(16 day)	25 km :: Ocean	N/A :: Sfc
1735	<i>Wind Speed, Along-track</i>	Fu	ALT	ALT	JPL	AL	m/s	2 m/s ::		7 km :: Ocean	N/A :: Sfc
3121	<i>Ocean Tide, Model</i>	Sanchez	ALT	ALT	JPL	AL	cm	2 cm ::	1/mission	100 km :: Ocean	N/A :: Sfc
2911	<i>Ice Sheet Elevation</i>	Zwally	ALT	ALT	NSIDC	AL	m	.5m-.5m ::	1/yr	15 km :: Land/Cryo	N/A :: Sfc
2350	<i>Level-1B Radiance, AMSU-A</i>	Chahine	AMSU-A	PM	GSFC	AL	K	0.2dg NEΔT :: 0.2dg NEΔT	2/day [d,n]	40 x 40 km :: G	N/A :: N/A
2801	<i>Soil Index</i>	Gillespie	ASTER	AMI	EDC	AL	dimensionless		50 scenes/mission	15 m :: Land/R.L.	N/A :: Sfc
2747	<i>Vegetation Index (PVI)</i>	Gillespie	ASTER	AMI	EDC	PL	dimensionless			15 m :: Land/R.L.	N/A :: Sfc
2817	<i>Mineral Maps</i>	Gillespie, Rowan, Kahle	ASTER	AMI	EDC	PL	dimensionless	variable :: variable	50/mission	90 m :: Land/R.L.	N/A :: Sfc
2883	<i>Geologic Unit Maps (Geology Maps)</i>	Gillespie, Rowan, Kieffer	ASTER	AMI	EDC	PL	N/A	variable :: variable	50/mission	90 m :: Land/R.L.	N/A :: Sfc
2375	<i>Level-1B Radiance, ASTER</i>	Japan	ASTER	AMI	EDC	AL	W/m <sup>2</sup> /sr/μm	2-4% :: 1%	1/16 day	15,30,90m :: G	N/A :: at sensor
2452	<i>Brightness Temperature (at Sensor)</i>	Kahle	ASTER	AMI	EDC	AL	K	5NEΔT :: 2NEΔT	1/(2-16 day)	90 m :: G	N/A :: at sensor
2435	<i>Land_sfc Reflectance, Relative Spectral</i>	Kahle, Becker	ASTER	AMI	EDC	AL	arbitrary units	N/A :: N/A	1/(2-16 day)	15,30 m :: Land/R.L.	N/A :: Sfc
2124	<i>Land_sfc Emissivity (3 products)</i>	Kahle, Becker, Christens	ASTER	AMI	EDC	AL	emissivity units	0.05-0.1 :: 0.005	1/(0.5-16 day)	90 m :: L	N/A :: Sfc
2483	<i>Land_sfc Temperature (3-products)</i>	Kahle, Becker, Christens	ASTER	AMI	EDC	AL	K	1-6 K :: 0.3 K	1/(2-16 day)	90 m :: Land	N/A :: Sfc
2129	<i>Land_sfc Emissivity, Relative Spectral</i>	Kahle, Becker, Schmugg	ASTER	AMI	EDC	AL	arbitrary units	N/A :: N/A	1/(0.5-16 day)	90 m :: Land/R.L.	N/A :: Sfc

DATA PRODUCT LIST - All Data Products

Essential Data products (Level 1 Requirements) are *Italicised*

Prod #	Product Name	Investigator	Instrument	Platform	DAAC	Time frame	Units	Accuracy Abs :: Rel	Temporal Resolution	Horizontal Resol. :: Domain	Vertical Resol. :: Domain
2803	Soil Maps, Level-4 (Class, Comp, Age, etc.)	Kahle, Gillespie	ASTER	AM1	EDC	PL	varies		50 maps/mission	90 m :: Land/R,L	N/A :: Sfc
2828	Topographic Elevation, Land_sfc, (DEM)	Kahle, JGI	ASTER	AM1	EDC	AL	m	>50 m :: >30 m	1/mission	15 m :: Land/R,L	30 m :: Sfc
2453	Land_sfc Brightness Temperature (Radiance)	Kahle, Palluconi, Christe	ASTER	AM1	EDC	AL	K	1-2K :: 0.3	1/(2-16 day)	90 m :: G	N/A :: Sfc
2931	Glacier Velocity	Kieffer	ASTER	AM1	EDC	AL	m/yr	20 m/yr :: 10 m/yr	1 yr	15 m :: Land/Cryo	
2542	Land Thermal Inertia	Kieffer et al	ASTER	AM1	EDC	AL	joule/m^2/K/s	40% :: 20%		90 m :: Land/R,L	N/A :: Sfc
2540	Land_sfc Temperature-Difference, Day-Night	Kieffer et al	ASTER	AM1	EDC	AL	K	1-2K :: 0.3K		90 m :: Land/R,L	N/A :: Sfc
2447	Land_sfc Thermal Change	Kieffer, Pieri, Schmugge	ASTER	AM1	EDC	AL	dimensionless	1-2 K :: 0.5 K		90 m :: Land/R,L	N/A :: Sfc
2378	Level-2 Radiance, Land_leaving	Palluconi et al	ASTER	AM1	EDC	AL	W/m^2/μm	TBD :: 0.065-0.085	1/(2-16 day)	90 m :: Land/R,L	N/A :: Sfc
3301	Eruption-Plume Characteristics	Pieri	ASTER	AM1	EDC	AL	variable	variable :: variable		15,30,90 m :: R/L	
3298	Volcano Age	Pieri, Kahle	ASTER	AM1	EDC	AL	KA	variable :: variable		15,30,90 m :: Land/R,L	N/A ::
2856	Landform Lineament / Slope Maps	Rowan	ASTER	AM1	EDC	AL	Orientation/length	variable :: variable	25 scenes/yr	50 m :: Land/R,L	N/A :: Sfc
2773	Mineral Index	Rowan, Kahle, Gillespie	ASTER	AM1	EDC	AL	dimensionless	10% :: 5%	15 scenes/yr	15,30,90 m :: Land/R,L	N/A :: Sfc
1791	Vegetation Evapotranspiration (ET)	Schmugge	ASTER	AM1	EDC	AL	mm/day	1 mm/dy :: 0.5 mm/dy		90 m :: Land/R,L	N/A :: Sfc
2433	Land_sfc Reflectance, Directional	Slater	ASTER	AM1	EDC	AL	dimensionless	4% :: 0.5-1.3	3/yr	15,30 m :: Land/R,L	N/A :: Sfc
3631	Coral Reef Maps	TBD	ASTER	AM1	EDC	TBD		TBD :: TBD	TBD	TBD :: Ocean/TBD	TBD :: TBD
3629	Land_sfc Thermal Anomalies	TBD	ASTER	AM1	EDC	TBD		TBD :: TBD	TBD	TBD :: Land/TBD	TBD :: TBD
3633	Land_sfc Water Area	TBD	ASTER	AM1	EDC	TBD		TBD :: TBD	TBD	TBD :: Land/TBD	TBD :: TBD
3636	Ocean_Water Temperature-Pattern	TBD	ASTER	AM1	EDC	TBD		TBD :: TBD	TBD	TBD :: Ocean/TBD	TBD :: TBD
3632	Ocean_Water Turbidity	TBD	ASTER	AM1	EDC	TBD		TBD :: TBD	TBD	TBD :: Ocean/TBD	TBD :: TBD
3630	Sea_Ice Area	TBD	ASTER	AM1	EDC	TBD		TBD :: TBD	TBD	TBD :: Ocean/TBD	TBD :: TBD
3635	Sea_sfc Temperature (SST)	TBD	ASTER	AM1	EDC	TBD		TBD :: TBD	TBD	TBD :: Ocean/TBD	TBD :: TBD
3634	Snow Area	TBD	ASTER	AM1	EDC	TBD		TBD :: TBD	TBD	TBD :: Land/TBD	TBD :: TBD
2080	Cloud Cover	Welch	ASTER	AM1	EDC	AL	fractional area	3% :: 3%	1/(16 day)	90 m :: L	N/A :: Cloud
1763	Cloud Drop Phase	Welch	ASTER	AM1	EDC	AL	dimensionless	water/ice ::	1/(16 day)	15-30 m :: L	N/A :: Cloud
1779	Cloud Drop Size(Effective Radius)	Welch	ASTER	AM1	EDC	AL	um	10 um ::	1/(16 day)	15-90 m :: L	:: Cloud
3627	Cloud Drop Size_distribution	Welch	ASTER	AM1	EDC	AL			1/(16 day)	90 m :: L	N/A :: Cloud
2115	Cloud Emissivity	Welch	ASTER	AM1	EDC	AL	dimensionless	5% ::	1/(16 day)	90 m :: L	N/A :: Cloud
3628	Cloud Field Scales_of_Organization	Welch	ASTER	AM1	EDC	AL			1/(16 day)	90 m :: L	N/A :: Cloud
2093	Cloud Field Size-distribution	Welch	ASTER	AM1	EDC	AL	dimensionless		1/(16 day)	90 m :: L	N/A :: Cloud
1391	Cloud Height, Base	Welch	ASTER	AM1	EDC	AL	m	100 m :: 100 m	1/(16 day)	100 m :: L	N/A :: Cloud
1427	Cloud Height, Top	Welch	ASTER	AM1	EDC	AL	m	300 m :: 300 m	1/(16 day)	90 m :: L	N/A :: Cloud
3626	Cloud Liquid_Water Content	Welch	ASTER	AM1	EDC	AL			1/(16 day)	90 m :: L	N/A :: Cloud
2310	Cloud Optical Depth	Welch	ASTER	AM1	EDC	AL	dimensionless	3% :: 3%	1/(16 day)	15-30 m :: L	N/A :: Cloud
1409	Cloud Structure, 3-D	Welch	ASTER	AM1	EDC	AL			1/(16 day)	90 m :: L	:: Cloud
2465	Cloud Temperature, Top	Welch	ASTER	AM1	EDC	AL	K	2 K :: 2 K	1/(16 day)	90 m :: L	N/A :: Cloud
3625	Cloud Thickness	Welch	ASTER	AM1	EDC	AL			1/(16 day)	100 m :: L	N/A :: Cloud
3624	Sea_Ice Albedo	Welch	ASTER	AM1	EDC	AL				90 m :: Ocean/Cryo	N/A :: Sfc
3152	Sea_Ice Fraction	Welch	ASTER	AM1	EDC	AL	fractional area			90 m :: Ocean/Cryo	N/A :: Sfc
3618	Sea_Ice Fraction, New (First-Year)	Welch	ASTER	AM1	EDC	AL	dimensionless			90 m :: Ocean/Cryo	N/A :: Sfc
3622	Sea_Ice Lead (Open Water) Size-distribution	Welch	ASTER	AM1	EDC	AL				90 m :: Ocean/Cryo	N/A :: Sfc
3617	Sea_Ice Lead (Open-Water) Fraction	Welch	ASTER	AM1	EDC	AL	dimensionless			90 m :: Ocean/Cryo	N/A :: Sfc
3616	Sea_Ice Meltpond Fraction	Welch	ASTER	AM1	EDC	AL	dimensionless			90 m :: Ocean/Cryo	N/A :: Sfc
3621	Sea_Ice Size-distribution	Welch	ASTER	AM1	EDC	AL				90 m :: Ocean/Cryo	N/A :: Sfc
3619	Sea_Ice Temperature	Welch	ASTER	AM1	EDC	AL	K			90 m :: Ocean/Cryo	N/A :: Sfc
3623	Sea_Ice Thickness	Welch	ASTER	AM1	EDC	AL	m			90 m-1 km :: Ocean/Cryo	N/A :: Sfc
3620	Sea_sfc Temperature (SST)	Welch	ASTER	AM1	EDC	AL	K			90 m :: Ocean/Cryo	N/A :: Sfc
2027	Anisotropy, LW_broadband	Barkstrom	CERES	TRM,AM,PM	LaRC	AL	fraction	2% :: 0.5%		10 dg [Angle] :: G	N/A :: Sfc,Atmos
2086	Cloud Cover	Barkstrom	CERES	TRM,AM,PM	LaRC	AL	dimensionless	5% :: 2%	6/day [d,p]	25 km :: G	N/A :: Atmos
2087	Cloud Cover	Barkstrom	CERES	TRM,AM,PM	LaRC	AL	dimensionless	5% :: 2%	1/(6 hr)	1.25 x 1.25 dg :: G	N/A :: Atmos
2088	Cloud Cover	Barkstrom	CERES	TRM,AM,PM	LaRC	AL	dimensionless	5% :: 2%	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: Atmos
1767	Cloud Drop Phase	Barkstrom	CERES	TRM,AM,PM	LaRC	AL	water/ice	90% Conf :: 90% Conf	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: Atmos

DATA PRODUCT LIST - All Data Products

Essential Data products (Level 1 Requirements) are Italicised

Prod #	Product Name	Investigator	Instrument	Platform	DAAC	Time frame	Units	Accuracy Abs :: Rel	Temporal Resolution	Horizontal Resol. :: Domain	Vertical Resol. :: Domain
1768	Cloud Drop Phase	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	water/ice	90% Conf :: 90% Conf	6/day [d,n]	25 km :: G	N/A :: Atmos
1769	Cloud Drop Phase	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	water/ice	90% Conf :: 90% Conf	1/(6 hr)	1.25 x 1.25 dg :: G	N/A :: Atmos
1782	Cloud Drop Size(Effective Radius)	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	um	30% :: 10%	1/(6 hr)	1.25 x 1.25 dg :: G	N/A :: Atmos
1783	Cloud Drop Size(Effective Radius)	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	um	30% :: 10%	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: Atmos
1784	Cloud Drop Size(Effective Radius)	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	um	30% :: 10%	6/day [d,n]	25 km :: G	N/A :: Atmos
1393	Cloud Height, Base	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	km	1.0 km :: 0.1 km	6/day [d,n]	25 km :: G	0.1 km :: Atmos
1394	Cloud Height, Base	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	km	1.0 km :: 0.1 km	1/(6 hr)	1.25 x 1.25 dg :: G	0.1 km :: Atmos
1395	Cloud Height, Base	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	km	1.0 km :: 0.1 km	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	0.1 km :: Atmos
1429	Cloud Height, Top	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	km	1.0 km :: 0.1 km	6/day [d,n]	25 km :: G	0.1 km :: Atmos
1430	Cloud Height, Top	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	km	1.0 km :: 0.1 km	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	0.1 km :: Atmos
1431	Cloud Height, Top	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	km	0.5 km :: 0.1 km	1/(6 hr)	1.25 x 1.25 dg :: G	0.1 km :: Atmos
1895	Cloud Liq. water Content	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	g/m <sup>3</sup>	75% :: 10%	1/(6 hr)	1.25 x 1.25 dg :: G	lyr :: Atmos
1896	Cloud Liq. water Content	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	g/m <sup>3</sup>	75% :: 10%	6/day [d,n]	25 km :: G	lyr :: Atmos
1897	Cloud Liq. water Content	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	g/m <sup>3</sup>	75% :: 10%	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	lyr :: Atmos
1899	Cloud Liq. water Total Column	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	kg/m <sup>2</sup>	50% :: 10%	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	Column :: Atmos
1900	Cloud Liq. water Total Column	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	kg/m <sup>2</sup>	50% :: 10%	6/day [d,n]	25 km :: G	Column :: Atmos
1901	Cloud Liq. water Total Column	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	kg/m <sup>2</sup>	50% :: 10%	1/(6 hr)	1.25 x 1.25 dg :: G	Column :: Atmos
2316	Cloud Optical Depth, LW	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	dimensionless	25% :: 10%	6/day [d,n]	25 km :: G	N/A :: Atmos
2317	Cloud Optical Depth, LW	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	dimensionless	10% :: 5%	1/day [Avg], 1/mo [Avg]	1.25 dg :: G	N/A :: Atmos
2318	Cloud Optical Depth, LW	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	dimensionless	25% :: 5%	1/(6 hr)	1.25 dg :: G	N/A :: Atmos
2321	Cloud Optical Depth, SW	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	dimensionless	25% :: 10%	3/day [d]	25 km :: G	N/A :: Atmos
2322	Cloud Optical Depth, SW	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	dimensionless	10% :: 5%	1/day [Avg], 1/mo [Avg]	1.25 dg :: G	N/A :: Atmos
2323	Cloud Optical Depth, SW	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	dimensionless	25% :: 5%	1/(6 hr)	1.25 dg :: G	N/A :: Atmos
2045	Land_sfc Reflectance, Bi-directional, SW Broadband	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	fraction	5% :: 1%		10 dg [Angle] :: G	N/A :: Sfc, Atmos
2359	Level-1B Radiance, CERES	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup> /sr/um	SW 2% LW 1% :: 0.005	6/day [d,n]	25 km :: G	N/A :: N/A
2144	Radiative Flux Divergence, Clear-sky	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup> /km	10% :: 5%	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	lyr :: Atmos
2145	Radiative Flux Divergence, Clear-sky	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup> /km	10% :: 5%	6/day [d,n]	1.25 dg :: G	lyr :: Atmos
2146	Radiative Flux Divergence, Clear-sky	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup> /km	10% :: 5%	1/(6 hr)	1.25 x 1.25 dg :: G	lyr :: Atmos
2147	Radiative Flux Divergence, Cloudy sky	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup> /km	25% :: 10%	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	lyr :: Atmos
2148	Radiative Flux Divergence, Cloudy sky	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup> /km	50% :: 10%	1/(6 hr)	1.25 x 1.25 dg :: G	lyr :: Atmos
2149	Radiative Flux Divergence, Cloudy sky	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup> /km	50% :: 10%	6/day [d,n]	1.25 dg :: G	lyr :: Atmos
2168	Radiative Flux, LW, Down	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	5 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: Sfc
2169	Radiative Flux, LW, Down	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	7 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	6/day [d,n]	1.25 x 1.25 dg :: G	N/A :: Sfc
2170	Radiative Flux, LW, Down	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	7 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	1/(6 hr)	1.25 x 1.25 dg :: G	N/A :: Sfc
2180	Radiative Flux, LW, Net	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	7 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	6/day [d,n]	1.25 x 1.25 dg :: G	N/A :: Sfc
2181	Radiative Flux, LW, Net	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	7 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	1/(6 hr)	1.25 x 1.25 dg :: G	N/A :: Sfc
2182	Radiative Flux, LW, Net	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	5 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: Sfc
2200	Radiative Flux, LW, Up	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	5 W/m <sup>2</sup> :: 1 W/m <sup>2</sup>	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: TOA
2201	Radiative Flux, LW, Up	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	7 W/m <sup>2</sup> :: <7 W/m <sup>2</sup>	6/day [d,n]	1.25 x 1.25 dg :: G	N/A :: Sfc
2202	Radiative Flux, LW, Up	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	7 W/m <sup>2</sup> :: <7 W/m <sup>2</sup>	1/(6 hr)	1.25 x 1.25 dg :: G	N/A :: Sfc
2203	Radiative Flux, LW, Up	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	5 W/m <sup>2</sup> :: <5 W/m <sup>2</sup>	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: Sfc
2204	Radiative Flux, LW, Up	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	5 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	1/(6 hr)	1.25 x 1.25 dg :: G	N/A :: TOA
2205	Radiative Flux, LW, Up	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	5 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	6/day [d,n]	25 km :: G	N/A :: TOA
2221	Radiative Flux, SW, Down	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	15 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	3/day [d]	1.25 dg :: G	N/A :: Sfc
2222	Radiative Flux, SW, Down	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	10 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: Sfc
2223	Radiative Flux, SW, Down	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	15 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	1/(6 hr)	1.25 x 1.25 dg :: G	N/A :: Sfc
2229	Radiative Flux, SW, Net	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	15 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	3/day [d]	1.25 x 1.25 dg :: G	N/A :: Sfc
2230	Radiative Flux, SW, Net	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	10 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: Sfc
2231	Radiative Flux, SW, Net	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	15 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	1/(6 hr)	1.25 x 1.25 dg :: G	N/A :: Sfc
2246	Radiative Flux, SW, Up	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	12 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	3/day [d]	1.25 x 1.25 dg :: G	N/A :: TOA
2247	Radiative Flux, SW, Up	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	15 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	3/day [d]	1.25 dg :: G	N/A :: Sfc

DATA PRODUCT LIST - All Data Products

Essential Data products (Level 1 Requirements) are Italicised

Prod #	Product Name	Investigator	Instrument	Platform	DAAC	Time frame	Units	Accuracy Abs :: Rel	Temporal Resolution	Horizontal Resol. :: Domain	Vertical Resol. :: Domain
2248	<i>Radiative Flux, SW, Up</i>	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	10 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: Sfc
2249	<i>Radiative Flux, SW, Up</i>	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	12 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	1/(6 hr)	1.25 x 1.25 dg :: G	N/A :: TOA
2250	<i>Radiative Flux, SW, Up</i>	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	15 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	1/(6 hr)	1.25 x 1.25 dg :: G	N/A :: Sfc
2251	<i>Radiative Flux, SW, Up</i>	Barkstrom	CERES	TRM_AM,PM	LaRC	AL	W/m <sup>2</sup>	7 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: G	N/A :: TOA
2297	<i>Aerosol Optical Depth</i>	Travis	EOSP	AERO,AM2	LaRC	AL	dimensionless	0.2 :: 10%	1/day [d]	40 km :: G	Column :: Atmos
1770	<i>Cloud Drop Phase</i>	Travis	EOSP	AERO,AM2	LaRC	AL	water/ice	:: 95% Corr	1/day [d]	100 km :: G	N/A :: Cloud
1774	<i>Cloud Drop Size</i>	Travis	EOSP	AERO,AM2	LaRC	AL	um	25% :: 25%	1/day [d]	100 km :: G	N/A :: Cloud
2313	<i>Cloud Optical Depth</i>	Travis	EOSP	AERO,AM2	LaRC	AL	dimensionless	20% :: 10%	1/day [d]	40 km :: G	Column :: Cloud
1530	<i>Cloud Pressure, Top</i>	Travis	EOSP	AERO,AM2	LaRC	AL	mb	30 mb :: 30 mb	1/day [d]	40 km :: G	30 mb :: Cloud
2336	<i>Level-1B Polarization, EOSP</i>	Travis	EOSP	AERO,AM2	LaRC	AL	dimensionless	0.2% :: 0.1%	1/day [d]	10-70 km :: G	N/A :: N/A
2362	<i>Level-1B Radiance, EOSP</i>	Travis	EOSP	AERO,AM2	LaRC	AL	W/m <sup>2</sup> /sr/um	5% :: 2%	1/day [d]	10-70 km :: G	N/A :: N/A
2353	<i>Level-2 Radiance, Atmos corrected, EOSP</i>	Travis	EOSP	AERO,AM2	LaRC	AL	W/m <sup>2</sup> /sr/um	25% :: 15%	1/day [d]	40 km :: G	N/A :: N/A
3644	<i>Reflectance, Bi-directional (BRDF)</i>	Travis	EOSP	AERO,AM2	LaRC	AL		5% ::	2 day [d]	10 km :: G	NA :: Cloud, Sfc
3229	<i>Electron Content, Total, (TEC)</i>	Melbourne	GGI	ALT	JPL	AL		:: 0.1%	1/s [?]	multiple :: G	mult :: 0-20000 km
3228	<i>Electron Content-Difference, Total, (TEC-difference)</i>	Melbourne	GGI	ALT	JPL	AL		:: 0.1%	1/s [?]	various :: G	mult :: 0-20000 km
2818	<i>Geodetic Baselines</i>	Melbourne	GGI	ALT	JPL	AL	km	:: 2:10 <sup>9</sup>	1/min	:: G	:: Sfc
2819	<i>Geodetic Carrier Phase, GPS(L1,L2)</i>	Melbourne	GGI	ALT	JPL	AL	mm	:: 0.4 mm	1/(0.1 s) [?]	:: G	
2862	<i>Geodetic EOS-platform Position</i>	Melbourne	GGI	ALT	JPL	AL	cm	:: <3 cm	? 1/s		:: In situ
2850	<i>Geodetic Geocenter</i>	Melbourne	GGI	ALT	JPL	AL	cm	:: 2 cm	1/day		
2861	<i>Geodetic Orientation</i>	Melbourne	GGI	ALT	JPL	AL	arcsec	:: 0.001 arc-s	2/day		
2867	<i>Geodetic Pseudorange, GPS(L1,L2)</i>	Melbourne	GGI	ALT	JPL	AL	cm	:: 12 cm	? 1/s	:: G	
2364	<i>Level-1B Radiance, GGI</i>	Melbourne	GGI	ALT	JPL	AL					
1605	<i>Temperature Profile</i>	Melbourne	GGI	ALT	JPL	AL	K	1 K :: 1 K	700 res/day	1-200 km :: G	1 km :: 5- 50 km
1606	<i>Temperature Profile</i>	Melbourne	GGI	ALT	JPL	AL	K	1 K :: 1 K	700 res/day	1-200 km :: G	1 km :: 2-5/50-60 km
2897	<i>Ice Sheet Displacement</i>	Bentley	GLRS-A	ALT	NSIDC	AL	mm/day	10 mm/dy :: 10 mm/dy	1/mo	N/A :: Land/Cryo	N/A :: Sfc
2912	<i>Ice Sheet Elevation</i>	Bentley	GLRS-A	ALT	NSIDC	AL	mm	100 mm :: 100 mm	1/mo	75 m :: Land/Cryo	N/A :: Sfc
1554	<i>Ice Sheet Roughness</i>	Bentley	GLRS-A	ALT	NSIDC	AL	mm	100 mm :: 100 mm	1/(3 mo)	75 m :: Cryo	:: Sfc
3048	<i>Ice Sheet Strain Rate</i>	Bentley	GLRS-A	ALT	NSIDC	AL	u-strain/yr	10 <sup>-6</sup> /yr :: 10 <sup>-6</sup> /yr	1/(3 mo)	10-100 km :: Land/Cryo	N/A :: Sfc
2831	<i>Topographic Elevation-Change Rate, Land sfc</i>	Cohen, Schutz et al	GLRS-A	ALT	GSFC	AL	mm/day - mm/yr	5 mm/yr ::	1/yr	100-900 km :: Land/R	:: Sfc
2858	<i>Landform Morphology</i>	Schutz et al	GLRS-A	ALT	GSFC	AL	mm	100-500mm ::	1/wk, 1/yr	0.1-10 km :: Land	100-500 mm :: Sfc
3271	<i>Volcano Deformation(Inflation-Deflation)</i>	Schutz et al	GLRS-A	ALT	GSFC	AL	mm/day - mm/yr	5/yr-100/d ::	1/day, 1/yr	1 km :: Land/L	:: Sfc
3270	<i>Volcano Deformation(Inflation-Deflation)</i>	Schutz et al	GLRS-A	ALT	GSFC	AL	mm/day - mm/yr	5 mm/yr ::	1/day, 1/yr	100 km :: Land/R	:: Sfc
2078	<i>Cloud Cover</i>	Spinhirne	GLRS-A	ALT	GSFC	AL	%	1% ::	1/(2-16 day)	10-200 km :: G	N/A ::
2114	<i>Cloud Emisivity</i>	Spinhirne	GLRS-A	ALT	GSFC	AL		10% ::	1/(2-16 day)	1-100 km :: G	150 m ::
1400	<i>Cloud Height</i>	Spinhirne	GLRS-A	ALT	GSFC	AL	m	75 m ::	1/(2-16 day)	2-10 km :: G	75 m ::
2300	<i>Cloud Optical Depth, Cirrus</i>	Spinhirne	GLRS-A	ALT	GSFC	AL		20% ::	1/(2-16 day)	1-100 km :: G	
1410	<i>Cloud Structure, Cirrus</i>	Spinhirne	GLRS-A	ALT	GSFC	AL	/m	0.2 ::	1/(2-16 day)	1-10 km :: G	75 m ::
2104	<i>Level-1B Backscatter Coef, GLRS</i>	Spinhirne	GLRS-A	ALT	GSFC	AL	/m	10% ::	1/(2-16 day)	1-100 km :: G	75 m ::
1014	<i>Aerosol Layer Boundary Height</i>	Spinhirne et al	GLRS-A	ALT	GSFC	AL	m	150 m ::	1/(2-16 day)	2-200 km :: G	75 m :: Atmos
2291	<i>Aerosol Optical Depth</i>	Spinhirne et al	GLRS-A	ALT	GSFC	AL	dimensionless	20% ::	1/(2-16 day)	2-200 km :: G	N/A :: Atmos
1389	<i>Cloud Height, Base</i>	Spinhirne et al	GLRS-A	ALT	GSFC	AL	m	75 m ::	1/(2-16 day)	2-100 km :: G	75 m :: Cloud
1405	<i>Cloud Height, PSC</i>	Spinhirne et al	GLRS-A	ALT	GSFC	AL	m	150 m ::	1/(2-16 day)	2-200 km :: Polar	75 m :: Strat
1425	<i>Cloud Height, Top</i>	Spinhirne et al	GLRS-A	ALT	GSFC	AL	m	75 m ::	1/(2-16 day)	200 m :: G	75 m :: Cloud
2308	<i>Cloud Optical Depth</i>	Spinhirne et al	GLRS-A	ALT	GSFC	AL	dimensionless	0.1 ::		2-200 km :: G	N/A :: Cloud
2324	<i>Cloud Optical Depth, PSC</i>	Spinhirne et al	GLRS-A	ALT	GSFC	AL	dimensionless	0.1 ::		200 m :: Polar	N/A :: Strat
1514	<i>PBL Height</i>	Spinhirne et al	GLRS-A	ALT	GSFC	AL	m	150 m ::	1/(2-16 day)	2-200 km :: G	75 m :: Trop
1643	<i>Tropopause Height, Aerosol_located</i>	Spinhirne et al	GLRS-A	ALT	GSFC	AL	m	300 m ::	1/(2-16 day)	200 km :: G	300 m :: Trop
1644	<i>Tropopause Height, Cirrus_located</i>	Spinhirne et al	GLRS-A	ALT	GSFC	AL	m	300 m ::	1/(2-16 day)	10 km :: G	300 m :: Trop
1992	<i>Aerosol Extinction Coef</i>	Barnett, Gille	HIRDLS	CHEM	GSFC	AL	/km	5-10% :: 1-10%	2/day [d,n]	4 x 4 dg :: G	1 km :: 7-30 km
1055	<i>CFC-11(CFC13) Conc</i>	Barnett, Gille	HIRDLS	CHEM	GSFC	AL	mix ratio	5-10% :: 1-10%	2/day [d,n]	4 x 4 dg :: G	1 km :: 7-30 km
1047	<i>CFC-12(CF2Cl2) Conc</i>	Barnett, Gille	HIRDLS	CHEM	GSFC	AL	mix ratio	5-10% :: 1-10%	2/day [d,n]	4 x 4 dg :: G	1 km :: 7-30 km

DATA PRODUCT LIST - All Data Products

Essential Data products (Level 1 Requirements) are Italicized

Prod #	Product Name	Investigator	Instrument	Platform	DAAC	Time frame	Units	Accuracy Abs :: Rel	Temporal Resolution	Horizontal Resol. :: Domain	Vertical Resol. :: Domain
1085	<i>CH4 Conc</i>	Barnett, Gille	HIRDLS	CHEM	GSFC	AL	mix ratio	5-10% :: 1-10%	2/day [d,n]	4 x 4 dg :: G	1 km :: 7-65 km
1408	<i>Cloud Height, PSC</i>	Barnett, Gille	HIRDLS	CHEM	GSFC	AL	km	0.4 km :: 0.4 km	2/day [d,n]	4 x 4 dg :: G	0.4 km :: Strat
1531	<i>Cloud Pressure, Top</i>	Barnett, Gille	HIRDLS	CHEM	GSFC	AL	mb	5-10% :: 5-10%	2/day [d,n]	4 x 4 dg :: G	0.4 km :: Trop
1500	<i>Geopotential Height-Gradient</i>	Barnett, Gille	HIRDLS	CHEM	GSFC	AL	m/km	0.04m/km :: 0.04m/km	2/day [d,n]	4 x 4 dg :: G	1 km :: 15-80 km
1837	<i>H2O Conc</i>	Barnett, Gille	HIRDLS	CHEM	GSFC	AL	mix ratio	5-10% :: 1-10%	2/day [d,n]	4 x 4 dg :: G	1 km :: 7-80 km
1202	<i>HNO3 Conc</i>	Barnett, Gille	HIRDLS	CHEM	GSFC	AL	mix ratio	5-10% :: 1-10%	2/day [d,n]	4 x 4 dg :: G	1 km :: 10-40 km
2369	<i>Level-1B Radiance, HIRDLS</i>	Barnett, Gille	HIRDLS	CHEM	GSFC	AL	W/m <sup>2</sup> /sr/um				
1239	<i>N2O Conc</i>	Barnett, Gille	HIRDLS	CHEM	GSFC	AL	mix ratio	5-10% :: 1-10%	2/day [d,n]	4 x 4 dg :: G	1 km :: 7-60 km
1254	<i>N2O5 Conc</i>	Barnett, Gille	HIRDLS	CHEM	GSFC	AL	mix ratio	5-10% :: 1-10%	2/day [d,n]	4 x 4 dg :: G	1 km :: 15-45 km
1273	<i>NO2 Conc</i>	Barnett, Gille	HIRDLS	CHEM	GSFC	AL	mix ratio	5-10% :: 3-10%	2/day [d,n]	4 x 4 dg :: G	1 km :: 10-55 km
1318	<i>O3 Conc</i>	Barnett, Gille	HIRDLS	CHEM	GSFC	AL	mix ratio	5-10% :: 1-10%	2/day [d,n]	4 x 4 dg :: G	1 km :: 7-80 km
1524	<i>Pressure</i>	Barnett, Gille	HIRDLS	CHEM	GSFC	AL	mb	0.1% :: 0.1%	2/day [d,n]	4 x 4 dg :: G	0.2 km :: 7-80 km
1608	<i>Temperature Profile</i>	Barnett, Gille	HIRDLS	CHEM	GSFC	AL	K	1K;2K>50km :: 0.3K;1K>50km	2/day [d,n]	4 x 4 dg :: G	1 km :: 7-80 km
1687	<i>Wind Velocity, Geostrophic</i>	Barnett, Gille	HIRDLS	CHEM	GSFC	AL	m/s	3 m/s :: 3 m/s	2/day [d,n]	4 x 4 dg :: G	1 km :: 7-80 km
2564	<i>Chlorophyll a Conc, Phytoplankton, Case-I Waters</i>	Carder, Davis	HIRIS	AM2	EDC	AL	mg/m <sup>3</sup>	50% :: 25%	1/(2 day) [d]	30-90 m :: Ocean-I/L	N/A :: TOO
2565	<i>Chlorophyll a Conc, Case-II Waters</i>	Carder, Melack	HIRIS	AM2	EDC	AL	mg/m <sup>3</sup>	100% :: 50%	1/(2 day) [d]	60-90 m :: Ocean-II/L	N/A :: TOO
3215	<i>Gelbstoff Absorption Coef@410nm</i>	Carder, Melack	HIRIS	AM2	EDC	AL	/m	50% :: 25%	1/(2 day) [d]	30-90 m :: Ocean-I/L	N/A :: TOO
3210	<i>Ocean Water Backscatter Coef@565nm</i>	Carder, Melack	HIRIS	AM2	EDC	AL	/m	50% :: 25%	1/(2 day) [d]	30-90 m :: Ocean-I/L	N/A :: Sfc
3314	<i>Organic Matter Conc, Dissolved</i>	Carder, Melack	HIRIS	AM2	EDC	AL	mg/m <sup>3</sup>	100% :: 50%	(>=2)/day	0-90 m :: Ocean/L+Land/Lake	N/A :: TOO
3315	<i>Suspended-Solids Conc, Ocean Water</i>	Carder, Melack	HIRIS	AM2	EDC	AL	mg/m <sup>3</sup>	100% :: 50%	(>=2)/day	0-90 m :: Ocean/L+Land/Lake	N/A :: TOO
3316	<i>Phytoplankton Type</i>	Davis, Melack	HIRIS	AM2	EDC	AL	mg/m <sup>3</sup>	100% :: 50%	(>=2)/day	0-90 m :: Ocean/L+Land/Lake	N/A :: TOO
3072	<i>Pigment Conc, Accessory</i>	Davis, Melack	HIRIS	AM2	EDC	AL	mg/m <sup>3</sup>	100% :: 50%	1/(>=2 day)	60-90 m :: Ocean-I/L	N/A :: TOO
2601	<i>Ocean Productivity, Primary</i>	Davis, Melack et al	HIRIS	AM2	EDC	AL	mg-C/m <sup>2</sup> /hr	100% :: 50%	1/(>=2 day)	30-90 m :: Ocean/L	N/A :: TOO
2922	<i>Glacier Cover, Bare Ice</i>	Dozier	HIRIS	AM2	NSIDC	AL	km <sup>2</sup>	5% :: 2%	1/wk, 1/mo	50 m :: Glacier/L	N/A :: Sfc
2978	<i>Glacier Percolation Zone</i>	Dozier	HIRIS	AM2	NSIDC	AL	km <sup>2</sup>	5% :: 2%	1/wk, 1/mo	50 m :: Glacier/L	N/A :: Sfc
2768	<i>Snow Contaminant Conc</i>	Dozier	HIRIS	AM2	NSIDC	AL	mg/m <sup>3</sup>	20% :: 20%	1/wk, 1/mo	50 m :: Snow/L	N/A :: Sfc
3019	<i>Snow Cover</i>	Dozier	HIRIS	AM2	NSIDC	AL	km <sup>2</sup>	5% :: 2%	1/wk, 1/mo	50 m :: Cryo/L	N/A :: Sfc
3025	<i>Snow Cover, Cold</i>	Dozier	HIRIS	AM2	NSIDC	AL	km <sup>2</sup>	5% :: 2%	1/wk, 1/mo	50 m :: Glacier/L	N/A :: Sfc
3029	<i>Snow Cover, Wet</i>	Dozier	HIRIS	AM2	NSIDC	AL	km <sup>2</sup>	5% :: 2%	1/wk, 1/mo	50 m :: Glacier/L	N/A :: Sfc
3030	<i>Snow Cover, Wet</i>	Dozier	HIRIS	AM2	NSIDC	AL	km <sup>2</sup>	10% :: 10%	1/wk, 1/mo	50 m :: Cryo/L	N/A :: Sfc
3038	<i>Snow Grain Size</i>	Dozier	HIRIS	AM2	NSIDC	AL	um	200% :: 200%	1/wk, 1/mo	50 [km?] :: Snow/L	N/A :: Sfc
2943	<i>Snow Lq-water Content</i>	Dozier	HIRIS	AM2	NSIDC	AL	mass fraction	100% :: 100%	1/wk, 1/mo	50 m :: Snow/L	N/A :: Sfc
2440	<i>Snow Reflectance, Spectral</i>	Dozier	HIRIS	AM2	NSIDC	AL	dimensionless	5% :: 1%	1/wk, 1/mo	50 m :: Land/L	N/A :: Sfc
2292	<i>Aerosol Optical Depth</i>	Gerstl	HIRIS	AM2	EDC	AL	dimensionless	0.05 :: 0.01	1/(2-16 day)	100 m :: L	Column :: Atmos
2035	<i>Land_etc Reflectance, Bi-directional, (BRDF)</i>	Gerstl	HIRIS	AM2	EDC	AL	dimensionless	5% :: 5%	1/(16 day)	30 m :: Land/L	N/A :: Sfc
2370	<i>Level-1B Radiance, HIRIS</i>	Goetz	HIRIS	AM2	EDC	AL	W/m <sup>2</sup> /sr/um				
1872	<i>Precipitable Water</i>	Goetz	HIRIS	AM2	EDC	AL	cm	10% :: 3%	1/(1-3 min), 1/(2-16 day)	30 m :: L	Column :: Atmos
1873	<i>Precipitable Water</i>	Goetz	HIRIS	AM2	EDC	AL	cm	10% :: 3%	1/(1-3 min), 1/(2-16 day)	30 m :: L	Column :: Trop
2895	<i>Glacier Displacement</i>	Kieffer	HIRIS	AM2	NSIDC	AL	km <sup>2</sup>	1% :: 0.2%	1/yr	30 m :: Glacier/L	N/A :: Sfc
2930	<i>Glacier Velocity</i>	Kieffer	HIRIS	AM2	NSIDC	AL	m/s	10 <sup>-6</sup> :: variable	1/yr	100 m :: Land/Cryo	N/A :: Sfc
2932	<i>Ice_Sheet Velocity (Outflow), Polar</i>	Kieffer	HIRIS	AM2	NSIDC	AL	m/s	10 <sup>-6</sup> :: variable	1/yr	100 m :: Cryo	N/A :: Sfc
2884	<i>Landform Sfc units, Geologic</i>	Kieffer, Clark	HIRIS	AM2	EDC	AL	dimensionless	:: 30%		30 m :: L	N/A :: Sfc
2774	<i>Mineral Thermal history</i>	Rowan	HIRIS	AM2	EDC	AL			1/secs	30 m :: Land/L	N/A :: Sfc
2766	<i>Mineral(CO3) Relative Abundance</i>	Rowan, Clark	HIRIS	AM2	EDC	AL	dimensionless	10% :: 5%	1/secs	30 m :: Land/L	N/A :: Sfc
2772	<i>Mineral(Fe) Relative Abundance</i>	Rowan, Clark	HIRIS	AM2	EDC	AL	dimensionless	10% :: 5%	1/secs	30 m :: Land/L	N/A :: Sfc
2776	<i>Mineral(OH) Relative Abundance</i>	Rowan, Clark	HIRIS	AM2	EDC	AL	dimensionless	10% :: 5%	1/secs	30 m :: Land/L	N/A :: Sfc
2784	<i>Mineral(SO4) Relative Abundance</i>	Rowan, Clark	HIRIS	AM2	EDC	AL	dimensionless	10% :: 5%	1/secs	30 m :: Land/L	N/A :: Sfc
3299	<i>Volcano-Activity Extent</i>	Rowan, Goetz	HIRIS	AM2	EDC	AL	m <sup>2</sup>		1/(2-16 day)	30 m :: Land/L	N/A :: Sfc
3294	<i>Volcano-Activity Temperature</i>	Rowan, Goetz	HIRIS	AM2	EDC	AL	C	10 C :: 5 C	1/(2-16 day)	30 m :: Land/L	N/A :: Sfc
2432	<i>Land_etc Reflectance, Directional</i>	Slater	HIRIS	AM2	EDC	AL	dimensionless	3% :: 1%	1/mo	30 m :: Land/R,L	N/A :: Sfc
2656	<i>Vegetation Crown Height</i>	Ustin	HIRIS	AM2	EDC	AL	m	40% :: 20%	1/(2-16 day)	30 m :: Land/L	N/A :: Sfc

DATA PRODUCT LIST - All Data Products

Essential Data products (Level 1 Requirements) are italicised

Prod #	Product Name	Investigator	Instrument	Platform	DAAC	Time frame	Units	Accuracy Abs :: Rel	Temporal Resolution	Horizontal Resol :: Domain	Vertical Resol :: Domain
2657	Vegetation Crown Spacing	Ustin	HIRIS	AM2	EDC	AL	m	40% :: 20%	1/(2-16 day)	30 m :: Land/L	N/A :: Sfc
2746	Vegetation Index	Ustin et al	HIRIS	AM2	EDC	AL	dimensionless	20% :: 10%	1/(2-16 day)	30 m :: Land/L	N/A :: Sfc
2029	PAR, Absorbed, Non-vegetative, (APAR)	Ustin, Weisman	HIRIS	AM2	EDC	AL	W/m^2	25% :: 10%	1/(2-16 day)	30 m :: Land/L	N/A :: Sfc
2030	PAR, Absorbed, Vegetative, (APAR)	Ustin, Weisman	HIRIS	AM2	EDC	AL	W/m^2	25% :: 10%	1/(2-16 day)	30 m :: Land/L	N/A :: Sfc
2614	Vegetation Biomass, Dead	Ustin, Weisman	HIRIS	AM2	EDC	AL	kg/ha	30% :: 15%	1/(2-16 day)	30 m :: Land/L	N/A :: Sfc
2620	Vegetation Biomass, Green	Ustin, Weisman	HIRIS	AM2	EDC	AL	kg/ha	30% :: 15%	1/(2-16 day)	30 m :: Land/L	N/A :: Sfc
2653	Vegetation Chlorophyll Conc	Ustin, Weisman	HIRIS	AM2	EDC	AL	g/ha	25% :: 10%	1/(2-16 day)	30 m :: Land/L	N/A :: Sfc
2741	Vegetation Cover	Ustin, Weisman	HIRIS	AM2	EDC	AL	%	20% :: 10%	1/(2-16 day)	30 m :: Land/L	N/A :: Sfc
2008	Albedo, Cloud	Welch	HIRIS	AM2	EDC	AL	%	5% :: 5%		90 m :: R	:: Cloud
2079	Cloud Cover	Welch	HIRIS	AM2	EDC	AL	dimensionless	1% :: 0.5%	1/(1-3 min), 1/(2-16 day)	30 m :: L	:: Cloud
1762	Cloud Drop Phase	Welch	HIRIS	AM2	EDC	AL	water/ice		1/(2-16 day)	30 m :: L	N/A :: Cloud
1778	Cloud Drop Size(Effective Radius)	Welch	HIRIS	AM2	EDC	AL	um	10 um ::	1/(2-16 day)	30 m :: L	:: Cloud
1776	Cloud Drop Size-distribution	Welch	HIRIS	AM2	EDC	AL	no/cm^2/um	20% :: 10%	1/(2-16 day)	30 m :: L	:: Cloud
1509	Cloud Field Organization scale	Welch	HIRIS	AM2	EDC	AL				:: L	
1503	Cloud Field Structure	Welch	HIRIS	AM2	EDC	AL				:: L	
1390	Cloud Height, Base	Welch	HIRIS	AM2	EDC	AL	m	50 m :: 50 m	1/(2-16 day)	30 m :: L	N/A :: Cloud
2281	Cloud Liq. water Content	Welch	HIRIS	AM2	EDC	AL	g/m^2	30% :: 10%		90 m :: R	:: Cloud
2309	Cloud Optical Depth	Welch	HIRIS	AM2	EDC	AL	dimensionless	3% :: 1.5%	1/(1-3 min), 1/(2-16 day)	30 m :: L	N/A :: Cloud
2037	Cloud Reflectance, Bi-directional, (BRDF)	Welch	HIRIS	AM2	EDC	AL		:: 1%		30 m :: R	:: Cloud
1426	Cloud Height, Top	Welch, Goetz	HIRIS	AM2	EDC	AL	m	500 m :: 250 m	1/(2-16 day)	30 m :: L	N/A :: Cloud
2644	Vegetation Type	Weisman	HIRIS	AM2	EDC	AL	ha	10% :: 10%	1/(2-16 day)	30 m :: Land/L	N/A :: Sfc
2648	Vegetation Cellulose Conc	Weisman, Aber	HIRIS	AM2	EDC	AL	g/ha	40% :: 20%	1/(2-16 day)	30 m :: Land/L	N/A :: Sfc
2687	Vegetation Lignin Conc	Weisman, Aber	HIRIS	AM2	EDC	AL	g/ha	40% :: 20%	1/(2-16 day)	30 m :: Land/L	N/A :: Sfc
2761	Vegetation Leaf-tissue Water Content	Weisman, Goetz	HIRIS	AM2	EDC	AL	g/cm^3	50% :: 20%	1/(2-16 day)	30 m :: Land/L	N/A :: Sfc
2384	Level-1B Radiance, LIS	Christian	LIS	TRM	MSFC	AL	W/m^2/μm				
3642	Lightning Occurrence (Location,Time)	Christian	LIS	TRM	MSFC	AL		10 km (in 1100km FOV) ::		07 dg :: G	N/A :: Atmos
3643	Lightning Radiant Energy	Christian	LIS	TRM	MSFC	AL				07 dg :: G	N/A :: Atmos
1756	Lightning Rate	Christian	LIS	TRM	MSFC	AL		:: 5%		07 dg :: G	N/A :: Atmos
2352	Level-1B Radiance, MHS	Chahine	MHS	PM	GSFC	AL	K	0.2dg NEdT :: 0.2dg NEdT	2/day [d,p]	15 x 15 km :: G	N/A :: N/A
3599	Cloud Liq. water Total Column	TBD	MIMR	PM1	MSFC	AL	mg/cm^2	0.005 cm ::	1 mo	1 dg :: Ocean	N/A :: Trop
3598	Cloud Liq. water Total Column	TBD	MIMR	PM1	MSFC	AL	mg/cm^2			22 km :: Ocean	N/A :: Trop
3602	Level-1B Radiance, MIMR	TBD	MIMR	PM1	MSFC	AL	K		1 day	1 dg :: Global	N/A ::
3597	Precipitable Water	TBD	MIMR	PM1	MSFC	AL	g/km^3	0.16 cm ::	1 mo	1 dg :: Ocean	Column :: Trop
3596	Precipitable Water	TBD	MIMR	PM1	MSFC	AL	g/km^3			22 km :: Ocean	Column :: Trop
3601	Precipitation Index	TBD	MIMR	PM1	MSFC	AL			1 mo	1 dg :: Global	N/A :: Sfc
3600	Precipitation Rate	TBD	MIMR	PM1	MSFC	AL	mm/hr?			22 km :: Global	N/A :: Sfc
3610	Sea Ice Age	TBD	MIMR	PM1	NSIDC	AL			1 mo	1 dg :: Ocean/Cryo	:: Sfc
3609	Sea Ice Age	TBD	MIMR	PM1	NSIDC	AL				22 km :: Ocean/Cryo	:: Sfc
3612	Sea Ice Conc	TBD	MIMR	PM1	NSIDC	AL			1 mo	1 dg :: Ocean/Cryo	N/A :: Sfc
3611	Sea Ice Conc	TBD	MIMR	PM1	NSIDC	AL				22 km :: Ocean/Cryo	N/A :: Sfc
3614	Sea Ice Extent	TBD	MIMR	PM1	NSIDC	AL			1 mo	1 dg :: Ocean/Cryo	N/A :: Sfc
3613	Sea Ice Extent	TBD	MIMR	PM1	NSIDC	AL				22 km :: Ocean/Cryo	N/A :: Sfc
3604	Sea sfc Temperature (SST)	TBD	MIMR	PM1	MSFC	AL	K	1 K ::	1 mo	1 dg :: Ocean	N/A :: Sfc
3603	Sea sfc Temperature (SST)	TBD	MIMR	PM1	MSFC	AL	K			60 km :: Ocean	N/A :: Sfc
3608	Snow Cover	TBD	MIMR	PM1	NSIDC	AL			1 mo	1 dg :: Land	N/A :: Sfc
3607	Snow Cover	TBD	MIMR	PM1	NSIDC	AL				22 km :: Land	N/A :: Sfc
3606	Soil Moisture	TBD	MIMR	PM1	MSFC	AL			1 mo	1 dg :: Land	N/A :: Sfc
3605	Soil Moisture	TBD	MIMR	PM1	MSFC	AL				60 km :: Land	N/A :: Sfc
3595	Wind Stress, Sea sfc	TBD	MIMR	PM1	MSFC	AL	m/s		1 mo	1 dg :: Ocean	N/A :: Sfc
3594	Wind Stress, Sea sfc	TBD	MIMR	PM1	MSFC	AL	m/s			39 km :: Ocean	N/A :: Sfc
2299	Aerosol Optical Depth	Diner	MISR	AM	LaRC	AL	dimensionless	0.05/10% :: 0.05/10%	1/(5-16 day) [d]	15.4 km :: G	Column :: Atmos

DATA PRODUCT LIST - All Data Products

Prod #	Product Name	Investigator	Instrument	Platform	DAAC	Time frame	Units	Accuracy Abs :: Rel	Essential Data products (Level 1 Requirements) are <i>Italicized</i>		
									Temporal Resolution	Horizontal Resol. :: Domain	Vertical Resol. :: Domain
2298	Aerosol Optical Depth	Diner	MISR	AM	LaRC	AL	dimensionless	0.05/10% :: 0.05/10%	<i>1/5-16 day</i> [d]	1.92 km :: R	Column :: Atmos
2334	Aerosol Phase Function, Asymmetric	Diner	MISR	AM	LaRC	AL	dimensionless	0.05 :: 0.05	<i>1/5-16 day</i> [d]	15.4 km :: G	Column :: Atmos
2335	Aerosol Phase Function, Asymmetric	Diner	MISR	AM	LaRC	AL	dimensionless	0.05 :: 0.05	<i>1/5-16 day</i> [d]	1.9 km :: R	Column :: Atmos
1993	Aerosol Size-distribution	Diner	MISR	AM	LaRC	AL	dimensionless	15% :: 10%	<i>1/5-16 day</i> [d]	15.4 km :: G	Column :: Atmos
1994	Aerosol Size-distribution	Diner	MISR	AM	LaRC	AL	dimensionless	15% :: 10%	<i>1/5-16 day</i> [d]	1.9 km :: R	Column :: Atmos
2011	Albedo, Planetary Spectral, TOA	Diner	MISR	AM	LaRC	AL	dimensionless	<=0.03 :: 0.01	<i>1/5-16 day</i> [d]	1.92 km :: G	N/A :: TOA
2010	Albedo, Planetary Spectral, TOA	Diner	MISR	AM	LaRC	AL	dimensionless	<=0.03 :: 0.01	<i>1/5-16 day</i> [d]	240 m :: R	N/A :: TOA
2022	Albedo, Spectral, Land_sfc	Diner	MISR	AM	LaRC	AL	dimensionless	<=0.03 :: 0.01	<i>1/5-16 day</i> [d]	1.92 km :: G	N/A :: Sfc
2021	Albedo, Spectral, Land_sfc	Diner	MISR	AM	LaRC	AL	dimensionless	<=0.03 :: 0.01	<i>1/5-16 day</i> [d]	240 m :: R	N/A :: Sfc
1433	Cloud Height, Top	Diner	MISR	AM	LaRC	AL	m	100 m :: 100 m	<i>1/5-16 day</i> [d]	500 m :: R	N/A :: Trop
1432	Cloud Height, Top	Diner	MISR	AM	LaRC	AL	m	<1000 m :: <1000 m	<i>1/5-16 day</i> [d]	5 km :: G	N/A :: Trop
2039	Cloud Reflectance, Bi-directional, (BRDF)	Diner	MISR	AM	LaRC	AL	/sr	3% :: 1%	[variable] [d]	1.92 km :: G	N/A :: Trop
2038	Cloud Reflectance, Bi-directional, (BRDF)	Diner	MISR	AM	LaRC	AL	/sr	3% :: 1%	[variable] [d]	240 m :: R	N/A :: Trop
3286	Eruption-Plume Height	Diner	MISR	AM	LaRC	AL	m	100 m :: 100 m	[variable] [d]	500 m :: Land/A	N/A :: Plume top
2631	Land_sfc Reflectance, Bi-directional, (BRDF)	Diner	MISR	AM	LaRC	AL	/sr	5% :: 2%	<i>1/5-16 day</i> [d]	1.92 km :: G	N/A :: Sfc
2632	Land_sfc Reflectance, Bi-directional, (BRDF)	Diner	MISR	AM	LaRC	AL	/sr	5% :: 2%	<i>1/5-16 day</i> [d]	240 m :: R	N/A :: Sfc
2386	Level-1B Radiance, MISR	Diner	MISR	AM	GSFC	AL	W/m^2/sr/um	3% :: 1%	<i>1/5-16 day</i> [d]	1.92 km :: G	N/A :: TOA
2387	Level-1B Radiance, MISR	Diner	MISR	AM	GSFC	AL	W/m^2/sr/um	3% :: 1%	<i>1/5-16 day</i> [d]	240 m :: R	N/A :: TOA
2588	Pigment Conc, Phytoplankton	Diner	MISR	AM	LaRC	AL	mg/m^3	30% :: 30%	1/(1-2 day) [d]	240 m :: Ocean/R	N/A :: TOO
2589	Pigment Conc, Phytoplankton	Diner	MISR	AM	LaRC	AL	mg/m^3	30% :: 30%	1/(1-2 day) [d]	1.92 km :: Ocean/G,R	N/A :: TOO
2846	Topographic Elevation, Land_sfc	Diner	MISR	AM	LaRC	AL	m	100 m :: 100 m	1/mission	500 m :: Land	N/A :: Sfc
2756	Vegetation Index, Normalized	Diner	MISR	AM	LaRC	AL	dimensionless	2% :: 2%	<i>1/5-16 day</i> [d]	1.92 km :: Land	N/A :: Sfc
2757	Vegetation Index, Normalized	Diner	MISR	AM	LaRC	AL	dimensionless	2% :: 2%	<i>1/5-16 day</i> [d]	240 m :: Land/R	N/A :: Sfc
1030	BrO(Br^81-O) Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	:: 1x10-12	1/mo. [z. mean]	0.1 x 2.5 dg :: 82N-82S	2.5 km :: 15-50 km
1070	CH3Cl Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	:: 1x10-11	2/day [d,p]	0.1 x 2.5 dg :: 82N-82S	2.5 km :: TPSE, 40 km
1107	CO Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	<=5% :: 0.3-3x10-10	2/day [d,p]	0.1 x 2.5 dg :: 82N-82S	2.5 km :: TPSE, 70 km
1898	Cloud Liq_water Content	Waters	MLS	TBD	GSFC	AL	mix ratio	<=5% :: 5%	1/day [z. mean]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: Upper Trop
1124	CO Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	<=5% :: 3x10-8	2/day [d,p]	0.1 x 2.5 dg :: 82N-82S	2.5 km :: TPSE, 60 km
1125	CO Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	<=5% :: 1x10-5	2/day [d,p]	0.1 x 2.5 dg :: 82N-82S	2.5 km :: 60-100 km
1165	H2CO Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	:: 2x10-11	1/day [z. mean]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: 30-50 km
1854	H2O (H2^17O) Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	:: 2%-<50km	2/day [d,p]		2.5 km [1.2] :: TPSE, 90 km
1855	H2O (H2^18O) Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	:: 2%-<50km	2/day [d,p]		2.5 km [1.2] :: TPSE, 80 km
1838	H2O Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	:: 2%-<50km	2/day [d,p]		2.5 km [1.2] :: TPSE, 100 km
1171	H2O2 Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	:: 1x10-10	1/day [z. mean]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: TPSE, 80 km
1188	HCK(H_CM35) Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	<=5% :: 0.1-10x10-10	2/day [d,p]	0.1 x 2.5 dg :: 82N-82S	2.5 km :: 30-40 km
1189	HCK(H_CM37) Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	<=5% :: 0.1-10x10-10	2/day [d,p]	0.1 x 2.5 dg :: 82N-82S	2.5 km :: TPSE, 90 km
1191	HCN Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	<=5% :: 4x10-11	2/day [d,p]	0.1 x 2.5 dg :: 82N-82S	2.5 km :: TPSE, 80 km
1203	HNO3 Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	<=5% :: 5x10-10	2/day [d,p]	0.1 x 2.5 dg :: 82N-82S	2.5 km :: 20-65 km
1216	HNO3 Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	:: 3-20x10-10	2/day [d,p]	0.1 x 2.5 dg :: 82N-82S	2.5 km :: TPSE, 46 km
1222	HNO3 Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	:: 3x10-11	1/day	0.1 x 2.5 dg :: 82N-82S	2.5 km :: 25-45 km
2388	Level-1B Radiance, MLS	Waters	MLS	TBD	GSFC	AL	K		2/day [d,p]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: Trop-150 km
3247	Magnetic Field Strength, DC	Waters	MLS	TBD	GSFC	AL	G	:: 2x10-3G	2/day [d,p]	2.5 x 0.2 dg :: 82N-82S	2.5 km :: 80-100 km
1240	N2O Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	<=5% :: 1-10x10-8	2/day [d,p]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: TPSE, 65 km
1266	NO Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	:: 1-10x10-7	2/day [d,p]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: 30-120 km
1274	NO2 Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	:: 1-8x10-8	2/day [d,p]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: 30-60 km
1299	O2 Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	<=5% :: 1%	2/day [d,p]	0.1 x 2.5 dg :: 82N-82S	2.5 km [6.5] :: TPSE, 120 km
1303	O2(NUI) Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	:: 10%	2/day [d,p]	0.1 x 2.5 dg :: 82N-82S	2.5 km [6.5] :: 20-80 km
1319	O3 Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	<= 3% :: 1% (<50km)	2/day [d,p]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: TPSE, 110 km
1328	O3 Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	:: 10%	2/day [d,p]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: TPSE, 70 km
1339	O3(17^OOO) Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	:: 50%	2/day [d,p]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: 20-50 km
1337	O3(OO^17 O) Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	:: 100%	2/day [d,p]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: 25-45 km

DATA PRODUCT LIST - All Data Products

Essential Data products (Level 1 Requirements) are Italicised

Prod #	Product Name	Investigator	Instrument	Platform	DAAC	Time frame	Units	Accuracy Abs :: Rel	Temporal Resolution	Horizontal Resol. :: Domain	Vertical Resol. :: Domain
1304	03(OO*18) Conc	Waters	MLS	TBD	GSFC	AL		:: 10%	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: 30-80 km
1338	03(OO*18_0) Conc	Waters	MLS	TBD	GSFC	AL		:: 50%	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: 20-60 km
1343	03(^18000) Conc	Waters	MLS	TBD	GSFC	AL		:: 20%	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: 20-60 km
1326	03O3(NU1,3) Conc	Waters	MLS	TBD	GSFC	AL		:: 50%	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: 20-60 km
1352	OCIO Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	:: 3x10-11	1/mo. [z. mean]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: TPSE, 25 km
1525	Pressure	Waters	MLS	TBD	GSFC	AL	mb	:: 1%(30-50km)	2/day [d,p]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: TPSE, 70 km
1369	SO2 Conc	Waters	MLS	TBD	GSFC	AL	mix ratio	:: 5x10-10	2/day [d,n]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: TPSE, 30 km
1609	Temperature Profile	Waters	MLS	TBD	GSFC	AL	K	:: 2K <100km)	2/day [d,p]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: TPSE, 120 km
1734	Wind Speed	Waters	MLS	TBD	GSFC	AL	m/s	:: 10m/h	2/day [d,p]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: 60-110 km
3211	Chlorophyll Fluorescence Efficiency	Abbott	MODIS	AM,PM	GSFC	PL	mW/cm^2/str/um/m	15% :: 5%	1/day, 1/wk	1 km :: Ocean/R,L	N/A :: TOO
3212	Chlorophyll Fluorescence Efficiency	Abbott	MODIS	AM,PM	GSFC	PL	mW/cm^2/str/um/m	15% :: 5%	1/day, 1/wk	4 km :: Ocean/G,R	N/A :: TOO
2575	Chlorophyll Fluorescence Line Height	Abbott	MODIS	AM,PM	GSFC	AL	mW/cm^2/str/um	.004 :: .001	1/day, 1/wk	4 km :: Ocean/G,R	N/A :: TOO
2576	Chlorophyll Fluorescence Line Height	Abbott	MODIS	AM,PM	GSFC	AL	mW/cm^2/str/um	.004 :: .001	1/day, 1/wk	1 km :: Ocean/R,L	N/A :: TOO
2566	Chlorophyll_a Conc (via Fluorescence)	Abbott	MODIS	AM,PM	GSFC	PL	mg/m^3	50-100% :: 35%	1/day, 1/wk	1 km :: Ocean/R,L	N/A :: TOO
2567	Chlorophyll_a Conc (via Fluorescence)	Abbott	MODIS	AM,PM	GSFC	PL	mg/m^3	50-100% :: 35%	1/day, 1/wk	4 km :: Ocean/G,R	N/A :: TOO
2602	Ocean Productivity, Primary, Near_sfc (via	Abbott	MODIS	AM,PM	GSFC	PL	mg-C/m^3/day	:: 50-100%	1/day, 1/wk	1 km :: Ocean-I/R,L	N/A :: TOO
2603	Ocean Productivity, Primary, Near_sfc (via	Abbott	MODIS	AM,PM	GSFC	PL	mg-C/m^3/day	:: 50-100%	1/day, 1/wk	4 km :: Ocean-I/G,R	N/A :: TOO
2110	Land_sfc Emissivity	Barton	MODIS	AM,PM	EDC	PL	dimensionless	0.01 :: 0.01	1/day, 1/wk	1 km :: G,R	N/A :: Sfc
2111	Land_sfc Emissivity	Barton	MODIS	AM,PM	EDC	PL	dimensionless	0.01 :: 0.01	1/day, 1/wk	50 km :: G,R	N/A :: Sfc
2527	Sea_sfc Temperature (SST)	Brown	MODIS	AM,PM	GSFC	AL	K	0.3-0.5 K :: 0.1-0.3 K	1/day, 1/wk, 1/mo	1 km :: Ocean/L	N/A :: Sfc
2528	Sea_sfc Temperature (SST)	Brown	MODIS	AM,PM	GSFC	AL	K	0.3-0.6K :: 0.1-0.3K	1/day, 1/wk, 1/mo	20 km :: Ocean/G,R	N/A :: Sfc
2529	Sea_sfc Temperature (SST)	Brown	MODIS	AM,PM	GSFC	AL	K	0.3-0.6K :: 0.1-0.3K	1/day, 1/wk, 1/mo	4 km :: Ocean/R,L	N/A :: Sfc
2530	Sea_sfc Temperature (SST)	Brown, Barton	MODIS	AM,PM	GSFC	AL	K	0.3-0.6K :: 0.1-0.3K	1/day, 1/wk, 1/mo	4 km :: Ocean/R,L	N/A :: Sfc
2531	Sea_sfc Temperature (SST)	Brown, Barton	MODIS	AM,PM	GSFC	AL	K	0.3-0.6K :: 0.1-0.3K	1/day, 1/wk, 1/mo	20 km :: Ocean/G,R	N/A :: Sfc
2532	Sea_sfc Temperature (SST)	Brown, Barton	MODIS	AM,PM	GSFC	AL	K	0.3-0.4K :: 0.1-0.6K	1/day, 1/wk, 1/mo	50 km :: Ocean	N/A :: Sfc
2569	Chlorophyll_a Conc	Carder	MODIS	AM,PM	GSFC	AL	mg/m^3	50% :: 10%	1/day, 1/wk, 1/mo	1 km :: Ocean-II/L	N/A :: TOO
2570	Chlorophyll_a Conc	Carder	MODIS	AM,PM	GSFC	AL	mg/m^3	50% :: 10%	1/day, 1/wk, 1/mo	1 km :: Ocean-II/G,R	N/A :: TOO
2580	Organic Matter Conc, Dissolved	Carder	MODIS	AM,PM	GSFC	PL	mg/m^3	150% :: 30%	1/day, 1/wk, 1/mo	20 km :: Ocean	N/A :: TOO
2581	Organic Matter Conc, Dissolved	Carder	MODIS	AM,PM	GSFC	PL	mg/m^3	150% :: 30%	1/day, 1/wk, 1/mo	1 km :: Ocean/R,L	N/A :: TOO
3662	Organic Matter Degradation, Product Absorption	Carder	MODIS	AM,PM	GSFC	AL	/m	40% :: 15%	1/day, 1/wk, 1/mo	20 km :: Ocean	N/A :: TOO
3663	Organic Matter Degradation, Product Absorption	Carder	MODIS	AM,PM	GSFC	AL	/m	40% :: 15%	1/day, 1/wk, 1/mo	1 km :: Ocean/R,L	N/A :: TOO
2571	Chlorophyll_a Conc	Clark	MODIS	AM,PM	GSFC	AL	mg/m^3	30% :: 10%	1/day, 1/wk, 1/mo	1 km :: Ocean-I/L	N/A :: TOO
2572	Chlorophyll_a Conc	Clark	MODIS	AM,PM	GSFC	AL	mg/m^3	30% :: 10%	1/day, 1/wk, 1/mo	20 km :: Ocean-I/G,R	N/A :: TOO
2031	Ocean Water Attenuation Coef, PAR	Clark	MODIS	AM,PM	GSFC	PL	/m	35% :: 10%	1/day, 1/wk	1 km :: Ocean-I/L	N/A :: TOO
2032	Ocean Water Attenuation Coef, PAR	Clark	MODIS	AM,PM	GSFC	PL	/m	35% :: 10%	1/day, 1/wk	20 km :: Ocean-I	N/A :: TOO
3206	Ocean Water Attenuation Coef@ 520nm, Beam	Clark	MODIS	AM,PM	GSFC	PL	/m	35% :: 10%	1/day, 1/wk	1 km :: Ocean	N/A :: TOO
3207	Ocean Water Attenuation Coef@ 520nm, Beam	Clark	MODIS	AM,PM	GSFC	PL	/m	35% :: 10%	1/day, 1/wk	20 km :: Ocean	N/A :: TOO
2608	Organic Matter Conc, Particulate	Clark	MODIS	AM,PM	GSFC	PL	mg/m^3	50% :: 30%	1/day, 1/wk	20 km :: Ocean	N/A :: TOO
3664	Organic Matter Conc, Particulate	Clark	MODIS	AM,PM	GSFC	PL	mg/m^3	50% :: 30%	1/day, 1/wk	1 km :: Ocean-I/L	N/A :: TOO
3085	Suspended-Solids Conc, Ocean Water	Clark	MODIS	AM,PM	GSFC	AL	g/m^3	50% :: 35%	1/day, 1/wk, 1/mo	20 km :: Ocean	N/A :: TOO
3086	Suspended-Solids Conc, Ocean Water	Clark	MODIS	AM,PM	GSFC	AL	g/m^3	50% :: 35%	1/day, 1/wk, 1/mo	1 km :: Ocean/R,L	N/A :: TOO
2574	Chlorophyll Fluorescence Line Curv	Hoge	MODIS	AM,PM	GSFC	AL	mW/cm^2/str/um	25% :: 8%	1/day, 1/wk	20 km :: Ocean	N/A :: TOO
2573	Chlorophyll Fluorescence Line Curv	Hoge	MODIS	AM,PM	GSFC	AL	mW/cm^2/str/um	25% :: 8%	1/day, 1/wk	1 km :: Ocean/R	N/A :: TOO
3317	Organic Matter Fluorescence Efficiency, Colored	Hoge	MODIS	AM,PM	GSFC	AL	dimensionless	100% :: 50%	1 dy,wk,mo	20 km :: Ocean/G,R	N/A :: TOO
3318	Organic Matter Fluorescence Efficiency, Colored	Hoge	MODIS	AM,PM	GSFC	AL	dimensionless	100% :: 50%	1 dy,wk,mo	1 km :: Ocean/R,L	N/A :: TOO
3319	Pigment Conc, Phycobillin [Phycocerythrin, etc.]	Hoge	MODIS	AM,PM	GSFC	PL	mg/m^3	50% :: 15%	1 dy,wk,mo	20 km :: Ocean/G,R	N/A :: TOO
3320	Pigment Conc, Phycobillin [Phycocerythrin, etc.]	Hoge	MODIS	AM,PM	GSFC	PL	mg/m^3	50% :: 15%	1 dy,wk,mo	1 km :: Ocean/R,L	N/A :: TOO
2593	Pigment Conc (via Spectral Curv)	Hoge, Esaias	MODIS	AM,PM	GSFC	PL	mg/m^3	50% :: 15%	1/day, 1/wk	1 km :: Ocean/R	N/A :: TOO
2594	Pigment Conc (via Spectral Curv)	Hoge, Esaias	MODIS	AM,PM	GSFC	PL	mg/m^3	50% :: 15%	1/day, 1/wk	20 km :: Ocean/R	N/A :: TOO
2537	Land_sfc Temperature-Difference, Day-Night	Huetz	MODIS	AM,PM	GSFC	PL	K	1 K :: 1 K	1/day	856 m :: R	N/A :: Sfc
2068	Cloud Field Area	Kaufman	MODIS	AM,PM	GSFC	PL	km^2		1/mo	1 dg :: G	N/A :: Sfc
2092	Cloud Field Perimeter	Kaufman	MODIS	AM,PM	GSFC	PL	km		1/mo	1 dg :: G	N/A :: Sfc
2711	Fire Class	Kaufman, Justice	MODIS	AM,PM	EDC	AL	C	10 C :: 5 C	1/day, 1/wk	10 km :: Land	N/A :: Sfc
2663	Fire Count	Kaufman, Justice	MODIS	AM,PM	EDC	AL			1/day, 1/wk	1 km :: Land/R	N/A :: Sfc

DATA PRODUCT LIST - All Data Products

Essential Data products (Level 1 Requirements) are Italicised

Prod #	Product Name	Investigator	Instrument	Platform	DAAC	Time frame	Units	Accuracy Abs :: Rel	Temporal Resolution	Horizontal Resol :: Domain	Vertical Resol :: Domain
2664	<i>Fire Count</i>	Kaufman, Justice	MODIS	AM,PM	EDC	AL					
2665	<i>Fire Extent</i>	Kaufman, Justice	MODIS	AM,PM	EDC	AL			1/day, 1/wk	10 km :: Land	N/A :: Sfc
2666	<i>Fire Extent</i>	Kaufman, Justice	MODIS	AM,PM	EDC	AL			1/day, 1/wk	1 km :: Land/R	N/A :: Sfc
2471	<i>Fire Temperature</i>	Kaufman, Justice	MODIS	AM,PM	EDC	AL	C	10 C :: 5 C	1/day, 1/wk	1 dg :: Land	N/A :: Sfc
1874	<i>Precipitable Water</i>	Kaufman, Tanre	MODIS	AM,PM	GSFC	AL	dimensionless ?	8% :: 6%	1/day	5 km :: Land	N/A :: Atmos
3321	<i>Precipitable Water</i>	Kaufman, Tanre	MODIS	AM,PM	GSFC	AL	dimensionless ?	12% :: 8%	1 dy, mo	1 km :: Land	N/A :: Atmos
3322	<i>Precipitable Water</i>	Kaufman, Tanre	MODIS	AM,PM	GSFC	AL	dimensionless ?	5% :: 3%	1 dy, mo	1 dg :: Land	N/A :: Atmos
2081	<i>Cloud Cover</i>	King	MODIS	AM,PM	GSFC	AL	%	10% :: 5%	2/day (d.p), 1/mo	5 km :: G	N/A :: Cloud
2082	<i>Cloud Cover</i>	King	MODIS	AM,PM	GSFC	AL	%	10% :: 5%	1/day, 1/mo	1 dg :: G	N/A :: Cloud
2311	<i>Cloud Optical Depth</i>	King	MODIS	AM,PM	GSFC	AL	dimensionless	20% :: 10%	1/day (d)	5 km :: G	N/A :: Cloud
2312	<i>Cloud Optical Depth</i>	King	MODIS	AM,PM	GSFC	AL	dimensionless	20% :: 10%	1/day, 1/mo	1 dg :: G	N/A :: Cloud
1764	<i>Cloud Drop Phase</i>	King, Menzel	MODIS	AM,PM	GSFC	AL	water/ice	90% Conf :: 90% Conf	1/day	5 km :: G	N/A :: Cloud
1765	<i>Cloud Drop Phase</i>	King, Menzel	MODIS	AM,PM	GSFC	AL	water/ice	90% Conf :: 90% Conf	1/day, 1/mo	1 dg :: G	N/A :: Cloud
1780	<i>Cloud Drop Size(Effective Radius)</i>	King, Menzel	MODIS	AM,PM	GSFC	AL	um	0-40% :: 5%	1/day	5 km :: G	N/A :: Cloud
1781	<i>Cloud Drop Size(Effective Radius)</i>	King, Menzel	MODIS	AM,PM	GSFC	AL	um	0-40% :: 5%	1/day, 1/mo	1 dg :: G	N/A :: Cloud
2094	<i>Cloud JPDF</i>	King, Menzel	MODIS	AM,PM	GSFC	PL	dimensionless		1/day, 1/mo	1 dg :: G	N/A :: N/A
2126	<i>Cloud Emissivity</i>	Menzel	MODIS	AM,PM	GSFC	AL	dimensionless	0.10 :: 0.05	2/day	5 km :: G	N/A :: Cloud
2127	<i>Cloud Emissivity</i>	Menzel	MODIS	AM,PM	GSFC	AL	dimensionless	0.10 :: 0.05	1/day, 1/mo	1 dg :: G	N/A :: Cloud
2116	<i>Cloud Emissivity</i>	Menzel	MODIS	AM,PM	GSFC	PL	dimensionless				N/A :: Cloud
1528	<i>Cloud Pressure, Top</i>	Menzel	MODIS	AM,PM	GSFC	AL	mb	50 mb :: 20 mb	2/day	5 km :: G	N/A :: Cloud
1529	<i>Cloud Pressure, Top</i>	Menzel	MODIS	AM,PM	GSFC	AL	mb	50 mb :: 20 mb	1/day, 1/mo	1 dg :: G	N/A :: Cloud
2466	<i>Cloud Temperature, Top</i>	Menzel	MODIS	AM,PM	GSFC	AL	C	2 C :: 1 C	1/day, 1/mo	1 dg :: G	N/A :: Cloud
2467	<i>Cloud Temperature, Top</i>	Menzel	MODIS	AM,PM	GSFC	AL	C	2 C :: 1 C	2/day	5 km :: G	N/A :: Cloud
1333	<i>O3 Total Burden</i>	Menzel	MODIS	AM,PM	GSFC	AL	DU	15-20DU :: 10DU	2/day, 1/day	5 km :: G	Column :: Atmos
1334	<i>O3 Total Burden</i>	Menzel	MODIS	AM,PM	GSFC	AL	DU	15-20DU :: 10DU	1/day, 1/mo	0.5 dg :: G	Column :: Atmos
1875	<i>Precipitable Water</i>	Menzel	MODIS	AM,PM	GSFC	AL	mm	10 mm :: 5 mm	2/day	5 km :: G	N/A :: Atmos
1559	<i>Stability (Lifted Index), Atmospheric</i>	Menzel	MODIS	AM,PM	GSFC	AL	C	2 C :: 1 C	2/day	5 km :: G	N/A :: Atmos
1560	<i>Stability (Lifted Index), Atmospheric</i>	Menzel	MODIS	AM,PM	GSFC	AL	C	2 C :: 1 C	2/day, 1/mo	0.5 dg :: G	N/A :: Atmos
3656	<i>Geometric Error, MODIS Level-2</i>	Salmonson, Barker	MODIS	AM,PM	GSFC	PL					
3657	<i>Geometric Error, MODIS Level-3</i>	Salmonson, Barker	MODIS	AM,PM	GSFC	PL					
3645	<i>Instrument Characteristics, MODIS Level-1</i>	Salmonson, Barker	MODIS	AM,PM	GSFC	AL					
3648	<i>Instrument Model, MODIS Level-1</i>	Salmonson, Barker	MODIS	AM,PM	GSFC	AL					
3652	<i>Irradiance, Lunar, MODIS Level-2</i>	Salmonson, Barker	MODIS	AM,PM	GSFC	PL					
3651	<i>Irradiance, Solar, MODIS Level-2</i>	Salmonson, Barker	MODIS	AM,PM	GSFC	PL					
3654	<i>Radiance Error, MODIS Level-2</i>	Salmonson, Barker	MODIS	AM,PM	GSFC	AL					
3646	<i>Radiance, At-Satellite, MODIS Level-1</i>	Salmonson, Barker	MODIS	AM,PM	GSFC	AL					
3650	<i>Radiance, Lunar Reference, MODIS Level-1</i>	Salmonson, Barker	MODIS	AM,PM	GSFC	PL					
3649	<i>Radiance, Solar Diffuser, MODIS Level-1</i>	Salmonson, Barker	MODIS	AM,PM	GSFC	PL					
3655	<i>Reflectance Error, MODIS Level-2</i>	Salmonson, Barker	MODIS	AM,PM	GSFC	PL					
3647	<i>Reflectance, Exoatmospheric, MODIS Level-2</i>	Salmonson, Barker	MODIS	AM,PM	GSFC	AL					
3653	<i>Reflectance, Lunar, MODIS Level-2</i>	Salmonson, Barker	MODIS	AM,PM	GSFC	PL					
3658	<i>Texture, MODIS Level-2</i>	Salmonson, Barker	MODIS	AM,PM	GSFC	AL					
3659	<i>Texture, MODIS Level-3</i>	Salmonson, Barker	MODIS	AM,PM	GSFC	PL					
3660	<i>Classification Masks, Clouds/Snow/Land/Water,</i>	Salmonson, Barker	MODIS	AM,PM	GSFC	AL					
3661	<i>Classification Masks, Clouds/Snow/Land/Water,</i>	Salmonson, Barker	MODIS	AM,PM	GSFC	PL					
2282	<i>Cloud Masking-shadowing</i>	Salomonson	MODIS	AM,PM	GSFC	AL	dimensionless	5% ::	1/day	25 km :: G	N/A :: Sfc
2283	<i>Cloud Masking-shadowing</i>	Salomonson	MODIS	AM,PM	GSFC	AL	dimensionless	30% ::	1/day	1 km :: G	N/A :: Sfc
2284	<i>Cloud Masking-shadowing</i>	Salomonson	MODIS	AM,PM	GSFC	AL	dimensionless	15% ::	1/day	0.5 km :: G	N/A :: Sfc
2338	<i>Level-1B Radiance, MODIS&lt;3um</i>	Salomonson	MODIS	AM,PM	GSFC	AL	W/m <sup>2</sup> /sr/um	5%(1σ) :: RMS<NEEdL	1/day	0.5 km :: G	N/A :: N/A
2339	<i>Level-1B Radiance, MODIS&lt;3um</i>	Salomonson	MODIS	AM,PM	GSFC	AL	W/m <sup>2</sup> /sr/um	5%(1σ) :: RMS<NEEdL	1/day	1 km :: G	N/A :: N/A
2392	<i>Level-1B Radiance, MODIS&lt;3um</i>	Salomonson	MODIS	AM,PM	GSFC	AL	W/m <sup>2</sup> /sr/um	5%(1σ) :: RMS<NEEdL	1/day	0.25 km :: G	N/A :: N/A
2340	<i>Level-1B Radiance, MODIS&gt;3um</i>	Salomonson	MODIS	AM,PM	GSFC	AL	W/m <sup>2</sup> /sr/um	1%(1σ) :: RMS<NEEdL	1/day	1 km :: G	N/A :: N/A
3641	<i>Cloud Cover</i>	Salomonson?	MODIS	AM,PM	GSFC	AL	%	10% :: 5%	1/mo (day & night)	0.25 km :: G	N/A :: Cloud
2003	<i>Albedo, Aerosol</i>	Tanre, Kaufman	MODIS	AM,PM	GSFC	PL	dimensionless	0.06 :: 0.03	1/day, 1/mo	0.5 dg :: G,R	N/A :: Atmos
3323	<i>Land_sfc Emissivity</i>	Wan	MODIS	AM,PM	EDC	PL	dimensionless	0.05 :: 0.02	1 dy, 1 wk	1 km :: Land/R	N/A :: Sfc

DATA PRODUCT LIST - All Data Products

Prod #	Product Name	Investigator	Instrument	Platform	DAAC	Time frame	Units	Accuracy Abs :: Rel	Essential Data products (Level 1 Requirements) are Italicized		
									Temporal Resolution	Horizontal Resol :: Domain	Vertical Resol :: Domain
3324	Land_sfc Emissivity	Wan	MODIS	AM,PM	EDC	PL	dimensionless	0.05 :: 0.02	1 dy, 1 wk	10 km :: Land	N/A :: Sfc
2484	Land_sfc Temperature	Wan	MODIS	AM,PM	EDC	AL	C	1 C :: 1 C	1/day, 1/wk	1 km :: Land/R	N/A :: Sfc
2485	Land_sfc Temperature	Wan	MODIS	AM,PM	EDC	AL	C	1-3 C :: 1 C	1/day, 1/wk	10 km :: Land	N/A :: Sfc
2606	Ocean Productivity, Primary	Esaias	MODIS *	AM,PM	GSFC	AL	mg/m <sup>3</sup>	<35% :: <20%	1/wk, 1/mo, 1/yr	20 km :: Ocean/G,R	N/A :: TOO
2330	PAR	Esaias	MODIS *	AM,PM	GSFC	PL	quanta/m <sup>2</sup> /s	TBD :: TBD	1/day	N/A :: G	N/A :: Atmos
3303	Calibration Data, MODIS	Evans	MODIS *	AM,PM	GSFC	AL	variable		1/day, 1/wk, 1/mo	N/A :: Ocean/G,R,L	N/A :: Sfc
2295	Aerosol Angstrom Exponent	Gordon	MODIS *	AM,PM	GSFC	AL	dimensionless	15% :: 5%	1/day, 1/wk, 1/mo	1 km :: Ocean/R,L	N/A :: Atmos
2296	Aerosol Angstrom Exponent	Gordon	MODIS *	AM,PM	GSFC	AL	dimensionless	15% :: 5%	1/day, 1/wk, 1/mo	20 km :: Ocean	N/A :: Atmos
2344	Aerosol Radiance	Gordon	MODIS *	AM,PM	GSFC	AL	mW/cm <sup>2</sup> /sr/um	10% :: 5%	1/day, 1/wk, 1/mo	1 km :: Ocean/G,R,L	N/A :: Atmos
2345	Aerosol Radiance	Gordon	MODIS *	AM,PM	GSFC	AL	mW/cm <sup>2</sup> /sr/um	10% :: 5%	1/day, 1/wk, 1/mo	20 km :: Ocean/G,R,L	N/A :: Atmos
2556	Coccolith Backscatter Coef	Gordon	MODIS *	AM,PM	GSFC	PL	/m	25% :: 10%	1/day, 1/wk, 1/mo	1 km :: Ocean/R	N/A :: TOO
2557	Coccolith Backscatter Coef	Gordon	MODIS *	AM,PM	GSFC	PL	/m	25% :: 10%	1/day, 1/wk, 1/mo	20 km :: Ocean	N/A :: TOO
2254	Olint Field	Gordon	MODIS *	AM,PM	GSFC	PL	dimensionless		1/orbit (d)	1 km :: Ocean/R	N/A :: Sfc
2559	Ocean Water Backscatter Coef, Total	Gordon	MODIS *	AM,PM	GSFC	PL	/m	25% :: 10%	1/day, 1/wk, 1/mo	1 km :: Ocean/R	N/A :: TOO
2560	Ocean Water Backscatter Coef, Total	Gordon	MODIS *	AM,PM	GSFC	PL	/m	25% :: 10%	1/day, 1/wk, 1/mo	20 km :: Ocean	N/A :: TOO
2266	PAR, Sfc (IPAR)	Gordon	MODIS *	AM,PM	GSFC	AL	quanta/m <sup>2</sup> /s	10% :: 5%	1/day (d)	1 km :: Ocean/L	N/A :: Sfc
2267	PAR, Sfc (IPAR)	Gordon	MODIS *	AM,PM	GSFC	AL	quanta/m <sup>2</sup> /s	10% :: 5%	1/day (d)	1 km :: Ocean	N/A :: Sfc
2555	Phytoplankton Backscatter Coef	Gordon	MODIS *	AM,PM	GSFC	PL	soft, med, hard		1/day, 1/wk, 1/mo	1 km :: Ocean/R	N/A :: TOO
2558	Phytoplankton Backscatter Coef	Gordon	MODIS *	AM,PM	GSFC	PL	soft, med, hard		1/day, 1/wk, 1/mo	20 km :: Ocean	N/A :: TOO
1688	Wind Velocity, Sea_sfc Olint-Pattern	Gordon	MODIS *	AM,PM	GSFC	PL	m/s		1/orbit (d)	1 km :: Ocean/R	N/A :: Sfc
2416	Level-2 Radiance, Water-leaving	Gordon et al	MODIS *	AM,PM	GSFC	AL	mW/cm <sup>2</sup> /sr/um	5% :: 5%	1/day, 1/wk, 1/mo	1 km :: Ocean/R,L	N/A :: Sfc
2417	Level-2 Radiance, Water-leaving	Gordon et al	MODIS *	AM,PM	GSFC	AL	mW/cm <sup>2</sup> /sr/um	5% :: 5%	1/day, 1/wk, 1/mo	20 km :: Ocean/G,R	N/A :: Sfc
2577	Coccolith Conc, Detached	Gordon, Clark	MODIS *	AM,PM	GSFC	AL	mg-CaCO <sub>3</sub> /m <sup>3</sup>	30% :: 10%	1/day, 1/wk, 1/mo	20 km :: Ocean/G,R	N/A :: TOO
2578	Coccolith Conc, Detached	Gordon, Clark	MODIS *	AM,PM	GSFC	AL	mg-CaCO <sub>3</sub> /m <sup>3</sup>	30% :: 10%	1/day, 1/wk, 1/mo	1 km :: Ocean/L	N/A :: TOO
3199	Ocean Water Attenuation Coef@490nm	Gordon, Clark	MODIS *	AM,PM	GSFC	AL	/m	25% :: 10%	1/day, 1/wk, 1/mo	20 km :: Ocean-1/R,L	N/A :: TOO
3200	Ocean Water Attenuation Coef@490nm	Gordon, Clark	MODIS *	AM,PM	GSFC	AL	/m	25% :: 10%	1/day, 1/wk, 1/mo	1 km :: Ocean-1/R,L	N/A :: TOO
2591	Pigment Conc	Gordon, Clark	MODIS *	AM,PM	GSFC	AL	mg/m <sup>3</sup>	30% :: 10%	1/day, 1/wk, 1/mo	20 km :: Ocean/G,R	N/A :: TOO
2592	Pigment Conc	Gordon, Clark	MODIS *	AM,PM	GSFC	AL	mg/m <sup>3</sup>	30% :: 10%	1/day, 1/wk, 1/mo	1 km :: Ocean/R,L	N/A :: TOO
2286	Level-1B Radiance Mixture-Model, MODIS	Huete	MODIS *	AM,PM	GSFC	PL	dimensionless	5-10% :: 0.05	1/day	pixel size :: G	N/A :: Sfc
2047	Soil Brightness Index	Huete	MODIS *	AM,PM	EDC	AL	%	5% :: 5%	1/mo	1 km :: Land/R	N/A :: Sfc
2095	Soil Color Index	Huete	MODIS *	AM,PM	EDC	AL	class	10% :: 5%	1/mo	1 km :: Land/R	N/A :: Sfc
2724	Vegetation Index, Soil&BRDF Adjusted	Huete	MODIS *	AM,PM	EDC	PL	dimensionless	0.01 :: 0.01	1/day, 1/wk, 1/mo	1 km :: Land/R	N/A :: Sfc
2748	Vegetation Index, Soil Adjusted	Huete	MODIS *	AM,PM	EDC	AL	dimensionless	0.01 :: 0.01	1/day, 1/wk, 1/mo	1 km :: Land	N/A :: Sfc
2659	Vegetation Growing Season Duration	Justice	MODIS *	AM,PM	EDC	PL	day	10 dy ::	1/yr	1 km :: Land	N/A :: Sfc
2660	Vegetation Growing Season Duration	Justice	MODIS *	AM,PM	EDC	PL	day	10 dy ::	1/yr	10 km :: Land	N/A :: Sfc
2749	Vegetation Index	Justice, Huete et al	MODIS *	AM,PM	EDC	AL	dimensionless	0.01 :: 0.01	1/day, 1/wk, 1/mo	10 km :: Land	N/A :: Sfc
2750	Vegetation Index	Justice, Huete et al	MODIS *	AM,PM	EDC	AL	dimensionless	0.01 :: 0.01	1/day, 1/wk, 1/mo	0.5 km :: Land/R	N/A :: Sfc
2751	Vegetation Index	Justice, Huete et al	MODIS *	AM,PM	EDC	AL	dimensionless	0.01 :: 0.01	1/day, 1/wk, 1/mo	1 km :: Land/R	N/A :: Sfc
3304	Data Characteristics, MODIS	Justice, Strahler	MODIS *	AM,PM	GSFC	PL	dimensionless	30,10, 5% ::	1/day	1 km :: G	N/A :: Sfc
3305	Data Characteristics, MODIS	Justice, Strahler	MODIS *	AM,PM	GSFC	PL	dimensionless	30,10, 5% ::	1/day	10 km :: G	N/A :: Sfc
3306	Data Characteristics, MODIS	Justice, Strahler	MODIS *	AM,PM	GSFC	PL	dimensionless	30,10, 5% ::	1/day	50 km :: G	N/A :: Sfc
2429	Land_sfc Reflectance, Directional	Kaufman et al	MODIS *	AM,PM	EDC	AL	dimensionless	0.01 :: 0.005	1/day	1 km :: G	N/A :: Sfc
2430	Land_sfc Reflectance, Directional	Kaufman et al	MODIS *	AM,PM	EDC	AL	dimensionless	0.01 :: 0.005	1/day	0.5 km :: G	N/A :: Sfc
2431	Land_sfc Reflectance, Directional	Kaufman et al	MODIS *	AM,PM	EDC	AL	dimensionless	0.01 :: 0.005	1/day	0.25 km :: G	N/A :: Sfc
1017	Aerosol Mass Loading	Kaufman, Tanre	MODIS *	AM,PM	GSFC	AL	g/m <sup>2</sup>	30% :: 10%	1/day, 1/mo	0.5 dg :: G,R	N/A :: Atmos
2293	Aerosol Optical Depth, Spectral	Kaufman, Tanre	MODIS *	AM,PM	GSFC	AL	dimensionless	0.1 :: 0.05	1/day, 1/mo	0.5 dg :: Land	N/A :: Atmos
2379	Level-2 Radiance, Land_leaving	Kaufman, Tanre	MODIS *	AM,PM	GSFC	AL	W/m <sup>2</sup> /sr/um	10% :: 5%	1/day	1 km :: Land/R	N/A :: Sfc
2380	Level-2 Radiance, Land_leaving	Kaufman, Tanre	MODIS *	AM,PM	GSFC	AL	W/m <sup>2</sup> /sr/um	10% :: 5%	1/day, 1/mo	10 km :: Land	N/A :: Sfc
2381	Level-2 Radiance, Land_leaving	Kaufman, Tanre	MODIS *	AM,PM	GSFC	AL	W/m <sup>2</sup> /sr/um	10% :: 5%	1/day	0.5 km :: Land/R	N/A :: Sfc
2404	Land_sfc Radiance-Correction, Topographic	Muller	MODIS *	AM,PM	EDC	AL			1/day	1 km :: Land/R	N/A :: Sfc
2405	Land_sfc Radiance-Correction, Topographic	Muller	MODIS *	AM,PM	EDC	AL			1/day	10 km :: Land	N/A :: Sfc
2001	Albedo, Planetary Spectral, TOA	Muller, Strahler	MODIS *	AM,PM	GSFC	AL	fraction	10% :: 5%	1/(3-8 day)	2.5 km :: Land/R	N/A :: Sfc
2434	Land_sfc Reflectance, Directional	Muller, Strahler	MODIS *	AM,PM	EDC	AL	fraction	10% :: 5%	1/day	1.1 km :: R	N/A :: Sfc
3216	Particulate Backscatter Coef	Parslow	MODIS *	AM,PM	GSFC	PL	/m	:: 30%	1/day	1 km :: Ocean	N/A :: TOO
3217	Particulate Backscatter Coef	Parslow	MODIS *	AM,PM	GSFC	PL	/m	:: 30%	1/day	20 km :: Ocean	N/A :: TOO

DATA PRODUCT LIST - All Data Products

Essential Data products (Level 1 Requirements) are *Italicized*

Prod #	Product Name	Investigator	Instrument	Platform	DAAC	Time frame	Units	Accuracy Abs :: Rel	Temporal Resolution	Horizontal Resol :: Domain	Vertical Resol :: Domain
2582	Organic Matter Conc, Dissolved	Parslow et al	MODIS *	AM_PM	GSFC	AL	mg/m <sup>3</sup>	150% :: 30%	1/day, 1/wk, 1/mo	20 km :: Ocean [Southern]	N/A :: TOO
2583	Organic Matter Conc, Dissolved	Parslow et al	MODIS *	AM_PM	GSFC	AL	mg/m <sup>3</sup>	150% :: 30%	1/day, 1/wk, 1/mo	1 km :: Ocean [Southern]R,L	N/A :: TOO
2680	Vegetation Index, Leaf Area, (LAI)	Running	MODIS *	AM_PM	EDC	PL	dimensionless	0.1-0.25 :: 5-20%	1/day, 1/wk	pixel_size :: Land/G,R,L	N/A :: N/A
2703	Vegetation Productivity, Primary	Running	MODIS *	AM_PM	EDC	PL	Mg/km <sup>2</sup> /yr	100 :: 5-30%	1/wk, 1/mo, 1/yr	1 km :: Land/G,R	N/A :: N/A
2723	Vegetation Stress	Running, Huete	MODIS *	AM_PM	EDC	PL	#/m	200-1000 :: 5-30%	1/day, 1/wk	pixel_size :: Land/G,R,L	N/A :: N/A
3153	Sea_Ice Max Extent	Salomonson	MODIS *	AM_PM	NSIDC	AL	km <sup>2</sup>	<=5% :: <=5%	1/day, 1/wk, 1/mo	10 km :: Ocean/Cryo	N/A :: Sfc
3154	Sea_Ice Max Extent	Salomonson	MODIS *	AM_PM	NSIDC	AL	km <sup>2</sup>	<=5% :: <=5%	1/day, 1/wk, 1/mo	1 km :: Ocean/Cryo,R	N/A :: Sfc
3020	Snow Cover	Salomonson	MODIS *	AM_PM	NSIDC	AL	km <sup>2</sup>	<=5% :: <=5%	1/day, 1/wk	10 km :: Land	N/A :: Sfc
3021	Snow Cover	Salomonson	MODIS *	AM_PM	NSIDC	AL	km <sup>2</sup>	<=5% :: <=5%	1/day, 1/wk	1 km :: Land/R	N/A :: Sfc
2669	Land_Cover Type	Strahler, Huete et al	MODIS *	AM_PM	EDC	AL	categorical fraction	10% :: 5%	1/mo, 1/season	1 km :: Land	N/A :: Sfc
2670	Land_Cover Type	Strahler, Huete et al	MODIS *	AM_PM	EDC	AL	categorical fraction	10% :: 5%	1/mo, 1/season	5 km :: Land	N/A :: Sfc
2671	Land_Cover Type-Change	Strahler, Huete et al	MODIS *	AM_PM	EDC	AL	categorical fraction	10% :: 7%	1/season	1 km :: Land	N/A :: Sfc
2672	Land_Cover Type-Change	Strahler, Huete et al	MODIS *	AM_PM	EDC	AL	categorical fraction	10% :: 7%	1/season	5 km :: Land	N/A :: Sfc
2268	PAR, Incident, (IPAR)	Tanre	MODIS *	AM_PM	EDC	PL	MJ/m <sup>2</sup>	200 :: 5-20%	1/day, 1/wk	1 km :: G,R	N/A :: Atmos
2294	Aerosol Optical Depth, Spectral	Tanre, Kaufman	MODIS *	AM_PM	GSFC	AL	dimensionless	0.05 :: 0.02	1/day, 1/mo	0.5 dg :: Ocean	N/A :: Atmos
1022	Aerosol Size-distribution (Radius-Dispersion)	Tanre, Kaufman	MODIS *	AM_PM	GSFC	AL	um, dimensionless	10-30% :: 10%	1/day, 1/mo	0.5 dg :: G,R	N/A :: Atmos
2015	Albedo, Land_sfc	Tanre, Muller	MODIS *	AM_PM	EDC	PL	dimensionless	15% :: 5-8%	1/day, 1/wk	1 km :: G,R	N/A :: Sfc
2016	Albedo, Land_sfc	Tanre, Muller	MODIS *	AM_PM	EDC	PL	dimensionless	15% :: 5-8%	1/day, 1/wk	10 km :: G,R	N/A :: Sfc
2424	Land_sfc Reflectance, Bi-directional, (BRDF)	Tanre, Muller	MODIS *	AM_PM	EDC	PL	%	15% :: 5-8%	1/day, 1/wk	1 km :: G,R	N/A :: Sfc
2425	Land_sfc Reflectance, Bi-directional, (BRDF)	Tanre, Muller	MODIS *	AM_PM	EDC	PL	%	15% :: 5-8%	1/day, 1/wk	10 km :: G,R	N/A :: Sfc
1556	Land_sfc Roughness	Tanre, Muller	MODIS *	AM_PM	EDC	PL	dimensionless	15% :: 5-8%	1/day, 1/wk	1 km :: G,R	N/A :: Sfc
1557	Land_sfc Roughness	Tanre, Muller	MODIS *	AM_PM	EDC	PL	dimensionless	15% :: 5-8%	1/day, 1/wk	10 km :: G,R	N/A :: Sfc
2337	Vegetation Index, Polarization	Vanderbilt	MODIS *	AM_PM	EDC	PL	dimensionless		1/day	pixel_size :: Land	N/A :: Sfc
1096	CH4 Total Burden	Drummond	MOPITT	AM1	LaRC	AL	ppbv	:: 1%	1/(12 s) [?]	120 km :: G	Column :: Atmos
1126	CO Conc	Drummond	MOPITT	AM1	LaRC	AL	ppb	:: 10%	1/(0.4 s) [?]	22 km :: G	3-4 km :: 0-15 km
1137	CO Total Burden	Drummond	MOPITT	AM1	LaRC	AL	ppb	:: 10%	1/(4 s) [?]	66 km :: G [dy]	Column :: Atmos
2394	Level-1B Radiance, MOPITT	Drummond	MOPITT	AM1	LaRC	AL	W/m <sup>2</sup> /sr/um	2% ::	1/(0.4 s) [?]	22 km :: G	Column :: Atmos
1086	CH4 Conc	Russell	SAFIRE	TBD	GSFC	AL	ppmv	:: 7% (15-55 km)	1/(18-72 s) [?]	25 x 1-5 dg :: 86S-86N	1.5 km :: 10-65 km
1852	H2O (H2A17O) Conc	Russell	SAFIRE	TBD	GSFC	AL	ppbv	:: 10% (20-40 km)	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-50 km
1853	H2O (H2A18O) Conc	Russell	SAFIRE	TBD	GSFC	AL	ppmv	:: 10% (20-50 km)	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-60 km
1857	H2O (HDO) Conc	Russell	SAFIRE	TBD	GSFC	AL	ppmv	:: 7% (20-50 km)	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 10-60 km
1839	H2O Conc	Russell	SAFIRE	TBD	GSFC	AL	ppmv	:: 5% (20-80 km)	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 10-100 km
1172	H2O2 Conc	Russell	SAFIRE	TBD	GSFC	AL	ppbv	:: 7% (30-35 km)	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-50 km
1180	HBr Conc	Russell	SAFIRE	TBD	GSFC	AL	ppbv	:: 10% (25-35 km)	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 15-40 km
1187	HCl Conc	Russell	SAFIRE	TBD	GSFC	AL	ppbv	:: 5% (25-55 km)	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 10-65 km
1192	HCN Conc	Russell	SAFIRE	TBD	GSFC	AL	ppbv	:: 35% (25-30 km)	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 25-35 km
1197	HF Conc	Russell	SAFIRE	TBD	GSFC	AL	ppbv	:: 15% (40-60 km)	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 40-60 km
1204	HNO3 Conc	Russell	SAFIRE	TBD	GSFC	AL	ppbv	:: 7% (15-40 km)	1/(18-72 s) [?]	25 x 1-5 dg :: 86S-86N	1.5 km :: 10-45 km
1217	HO2 Conc	Russell	SAFIRE	TBD	GSFC	AL	ppbv	:: 7% (30-60 km)	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-75 km
1223	HOCl Conc	Russell	SAFIRE	TBD	GSFC	AL	ppbv	:: 7% (35-40 km)	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-45 km
2396	Level-1B Radiance, SAFIRE	Russell	SAFIRE	TBD	GSFC	AL					
1241	N2O Conc	Russell	SAFIRE	TBD	GSFC	AL	ppmv	:: 15% (20-35 km)	1/(18-72 s) [?]	25 x 1-5 dg :: 86S-86N	1.5 km :: 20-40 km
1255	N2O5 Conc	Russell	SAFIRE	TBD	GSFC	AL	ppbv	:: 10% (20-40 km)	1/(18-72 s) [?]	25 x 1-5 dg :: 86S-86N	1.5-3 km :: 10-45 km
1275	NO2 Conc	Russell	SAFIRE	TBD	GSFC	AL	ppbv	:: 5% (20-55 km)	1/(18-72 s) [?]	25 x 1-5 dg :: 86S-86N	1.5 km :: 15-60 km
1298	O(3P) Conc	Russell	SAFIRE	TBD	GSFC	AL	%	:: 15% (110-180 km)	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 90-180 km
1300	O2 Conc	Russell	SAFIRE	TBD	GSFC	AL	%	:: <2% (10-65 km)	1/(36-72 s) [?]	25 x 1-5 dg :: 86S-86N	3 km :: 10-80 km
1320	O3 Conc	Russell	SAFIRE	TBD	GSFC	AL	ppmv	:: 5% (10-70 km)	1/(18-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	1.5-3 km :: 10-100 km
1341	O3(17*OOO) Conc	Russell	SAFIRE	TBD	GSFC	AL	ppbv	:: 15% (20-35 km)	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-40 km
1329	O3(NL2) Conc	Russell	SAFIRE	TBD	GSFC	AL	ppbv	:: 10% (20-40 km)	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-50 km
1340	O3(O17*OO) Conc	Russell	SAFIRE	TBD	GSFC	AL	ppbv	:: 40% (20-30 km)	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-35 km
1344	O3(O*18_OO) Conc	Russell	SAFIRE	TBD	GSFC	AL	ppbv	:: 15% (20-30 km)	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-35 km
1345	O3(^18OOO) Conc	Russell	SAFIRE	TBD	GSFC	AL	ppbv	:: 15% (20-35 km)	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-40 km

DATA PRODUCT LIST - All Data Products

Essential Data products (Level 1 Requirements) are Italicised

Prod #	Product Name	Investigator	Instrument	Platform	DAAC	Time frame	Units	Accuracy Abs :: Rel	Temporal Resolution	Horizontal Resol :: Domain	Vertical Resol :: Domain
1327	O3O3(NUI,3) Conc	Russell	SAFIRE	TBD	GSFC	AL	ppbv	:: 15% (20-30 km)	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-35 km
1360	OH Conc	Russell	SAFIRE	TBD	GSFC	AL	ppbv	:: 7% (30-75 km)	1/(36-72 s) [?]	25 x 2.5-5 dg :: 86S-86N	3 km :: 20-90 km
1526	Pressure	Russell	SAFIRE	TBD	GSFC	AL	mb	:: <2% (16-70 km)	1/(18-72 s) [?]	25 x 1-5 dg :: 86S-86N	1.5 km :: 10-110 km
1610	Temperature Profile	Russell	SAFIRE	TBD	GSFC	AL	K	:: <0.5K(16-65 km)	1/(18-72 s) [?]	25 x 1-5 dg :: 86S-86N	1.5 km :: 10-110 km
1012	Aerosol Extinction Coef	McCormick	SAGB-III	AERO,CHEM	LaRC	AL	/km	5% :: 5%	1/(2 min), 30/day	<2 x <1 dg :: G	1 km :: 0-40 km
1437	Cloud Height, Top, PSC	McCormick	SAGB-III	AERO,CHEM	LaRC	AL	km	0.2 km :: 5%	1/(2 min), 30/day	<2 x <1 dg :: G	1 km :: Stra/Trop
1840	H2O Conc	McCormick	SAGB-III	AERO,CHEM	LaRC	AL	/cm^3d ppmv	10% :: 10%	1/(2 min), 30/day	<2 x <1 dg :: Polar	1 km :: 3-50 km
1841	H2O Conc	McCormick	SAGB-III	AERO,CHEM	LaRC	AL	/cm^3d ppmv	10% :: 15%	1/(2 min), 30/day	<2 x <1 dg :: G	1 km :: 3-50 km
2543	Level-1B Transmission, SAGB-III	McCormick	SAGB-III	AERO,CHEM	LaRC	AL	dimensionless	0.05% :: 0.05%	1/(2 min), 30/day	200 x 2.5 km :: G	1-2 km :: 0-90 km
1276	NO2 Conc	McCormick	SAGB-III	AERO,CHEM	LaRC	AL	/cm^3d ppbv	10% :: 10%	1/(2 min), 30/day	<2 x <1 dg :: Polar	1 km :: 10-50 km
1277	NO2 Conc	McCormick	SAGB-III	AERO,CHEM	LaRC	AL	/cm^3d ppbv	10% :: 15%	1/(2 min), 30/day	<2 x <1 dg :: G	1 km :: 20-50 km
1282	NO3 Conc	McCormick	SAGB-III	AERO,CHEM	LaRC	AL	/cm^3d ppbv	10% :: 10%	1/(2 min), 30/day	<2 x <1 dg :: G	1 km :: 20-55 km
1321	O3 Conc	McCormick	SAGB-III	AERO,CHEM	LaRC	AL	/cm^3d ppmv	6% :: 5%	1/(2 min), 30/day	<2 x <1 dg :: Polar	1 km :: 6-85 km
1353	OC10 Conc	McCormick	SAGB-III	AERO,CHEM	LaRC	AL	/cm^3d ppbv	20% :: 20%	1/(2 min), 30/day	<2 x <1 dg :: G	2 km :: 15-25 km
1301	Pressure	McCormick	SAGB-III	AERO,CHEM	LaRC	AL	/cm^3	2% :: 2%	1/(2 min), 30/day (Lun.)	<2 x <1 dg :: G	1 km :: 6-55 km
1302	Pressure	McCormick	SAGB-III	AERO,CHEM	LaRC	AL	/cm^3	2% :: 2%	1/(2 min), 30/day (Sol.)	<2 x <1 dg :: G	1 km :: 6-70 km
1611	Temperature Profile	McCormick	SAGB-III	AERO,CHEM	LaRC	AL	K	2 k :: 2K	1/(2 min), 30/day	<2 x <1 dg :: G	1 km :: 6-55 km
1612	Temperature Profile	McCormick	SAGB-III	AERO,CHEM	LaRC	AL	K	2 k :: 2 K	1/(2 min), 30/day	<2 x <1 dg :: Polar	1 km :: 6-70 km
2277	Irradiance, UV Solar [0.0015 nm res.]	Rottman	SOLSTICE	MO	GSFC	AL	photons/cm^2/s/nm	<5% :: <1%	1/hr	N/A :: N/A	N/A :: NA
2278	Irradiance, UV Solar [0.1 nm res.]	Rottman	SOLSTICE	MO	GSFC	AL	photons/cm^2/s/nm	<5% :: <1%	1/hr	N/A :: N/A	N/A :: NA
2398	Level-1B Irradiance, SOLSTICE	Rottman	SOLSTICE	MO	GSFC	AL	W/m^2		1/hr	2 dg :: G	1 km :: Mid atm
3640	Spectra, UV Stellar Comparison [0.1 nm res.1]	Rottman	SOLSTICE	MO	GSFC	AL	photons/cm^2/s/nm	<5% :: <1%		N/A :: N/A	N/A :: NA
2108	Level-1B Backscatter Coef	Freilich	STIKSCAT	CHEM	JPL	AL	dB	:: 0.25 dB		25 km :: G	N/A :: Sfc
1746	Wind Stress	Freilich	STIKSCAT	CHEM	JPL	AL				:: Ocean	:: Sfc
1680	Wind Velocity, Sea sfc	Freilich	STIKSCAT	CHEM	JPL	AL	m/s,dg	:: 10%; 16 deg	1/(2 day)	25 km :: Ocean	N/A :: Near_Sfc
1679	Wind Velocity, Sea sfc	Freilich	STIKSCAT	CHEM	JPL	AL	m/s,dg	:: 7%; 16 deg	1/(2 day)	1 dg :: Ocean	N/A :: Near_Sfc
1087	CH4 Conc	Beer	TES	CHEM	LaRC	AL	ppb	:: 14 ppb	1/(16 day)	16 x 5 km :: G	4-6 km :: 0-12 km
1088	CH4 Conc	Beer	TES	CHEM	LaRC	AL	ppb	:: 30 ppb	1/(16 day)	160 x 23 km :: G	2-3 km :: 13-30 km
1089	CH4 Conc	Beer	TES	CHEM	LaRC	AL	ppb	:: 40 ppb	1/(16 day)	160 x 23 km :: G	2-3 km :: 4-12 km
1127	CO Conc	Beer	TES	CHEM	LaRC	AL	ppb	:: 10 ppb	1/(16 day)	160 x 23 km :: G	2-3 km :: 13-30 km
1128	CO Conc	Beer	TES	CHEM	LaRC	AL	ppb	:: 15 ppb	1/(16 day)	160 x 23 km :: G	2-3 km :: 4-12 km
1129	CO Conc	Beer	TES	CHEM	LaRC	AL	ppb	:: 3 ppb	1/(16 day)	16 x 5 km :: G	4-6 km :: 0-12 km
3637	CO2 Conc	Beer	TES	CHEM	LaRC	AL	ppb		1/(16 day)	16 x 5 km :: L	
1844	H2O Conc	Beer	TES	CHEM	LaRC	AL	ppm	:: 50 ppm	1/(16 day)	16 x 5 km :: G	4-6 km :: 0-12 km
1843	H2O Conc, Stratospheric	Beer	TES	CHEM	LaRC	AL	ppm	:: 0.5 ppm	1/(16 day)	160 x 23 km :: G	2-3 km :: 13-30 km
1842	H2O Conc, Tropospheric	Beer	TES	CHEM	LaRC	AL	ppm	:: 50 ppm	1/(16 day)	160 x 23 km :: G	2-3 km :: 4-12 km
3638	HCl Conc	Beer	TES	CHEM	LaRC	AL	ppb		1/(16 day)	16 x 5 km :: L	
3639	HF1 Conc	Beer	TES	CHEM	LaRC	AL	ppb		1/(16 day)	16 x 5 km :: L	
1205	HN03 Conc	Beer	TES	CHEM	LaRC	AL	ppt	:: 3 ppt	1/(16 day)	160 x 23 km :: G	2-3 km :: 4-12 km
1206	HN03 Conc	Beer	TES	CHEM	LaRC	AL	ppt	:: 3 ppt	1/(16 day)	160 x 23 km :: G	2-3 km :: 13-30 km
2455	Land_sfc Brightness Temperature (Radiance)	Beer	TES	CHEM	LaRC	AL	K	:: 1K	1/(16 day)	16 x 5 km :: G	N/A :: Sfc
2402	Level-1B Radiance, TES	Beer	TES	CHEM	LaRC	AL					
1243	N2O Conc	Beer	TES	CHEM	LaRC	AL	ppt	:: 10 ppt	1/(16 day)	160 x 23 km :: G	2-3 km :: 13-30 km
1256	NH3 Conc	Beer	TES	CHEM	LaRC	AL	ppt	:: 300 ppt	1/(16 day)	160 x 23 km :: G	2-3 km :: 4-12 km
1267	NO Conc	Beer	TES	CHEM	LaRC	AL	ppt	:: 15 ppt	1/(16 day)	160 x 23 km :: G	2-3 km :: 4-12 km
1268	NO Conc	Beer	TES	CHEM	LaRC	AL	ppt	:: 25 ppt	1/(16 day)	160 x 23 km :: G	2-3 km :: 13-30 km
1278	NO2 Conc	Beer	TES	CHEM	LaRC	AL	ppt	:: 500 ppt	1/(16 day)	160 x 23 km :: G	2-3 km :: 4-12 km
1323	O3 Conc	Beer	TES	CHEM	LaRC	AL	ppb	:: 20 ppb	1/(16 day)	160 x 23 km :: G	2-3 km :: 13-30 km
1324	O3 Conc	Beer	TES	CHEM	LaRC	AL	ppb	:: 3 ppb	1/(16 day)	160 x 23 km :: G	2-3 km :: 4-12 km
1325	O3 Conc	Beer	TES	CHEM	LaRC	AL	ppb	:: 13 ppb	1/(16 day)	16 x 5 km :: G	4-6 km :: 0-12 km
1370	SO2 Conc	Beer	TES	CHEM	LaRC	AL	ppt	:: 600 ppt	1/(16 day)	160 x 23 km :: G	2-3 km :: 4-12 km

DATA PRODUCT LIST - All Data Products

*Essential Data products (Level 1 Requirements) are Italicised*

<i>Prod #</i>	<i>Product Name</i>	<i>Investigator</i>	<i>Instrument</i>	<i>Platform</i>	<i>DAAC</i>	<i>Time frame</i>	<i>Units</i>	<i>Accuracy Abs :: Rel</i>	<i>Temporal Resolution</i>	<i>Horizontal Resol :: Domain</i>	<i>Vertical Resol :: Domain</i>
1614	<i>Temperature Profile</i>	Boer	TES	CHEM	LaRC	AL	K	:: 2K	1(16 day)	16 x 5 km :: G	1 km, 4-6 km :: 0-12 km
1615	<i>Temperature Profile</i>	Boer	TES	CHEM	LaRC	AL	K	:: 2K	1(16 day)	160 x 23 km :: G	2-3 km :: 13-30 km
1616	<i>Temperature Profile</i>	Boer	TES	CHEM	LaRC	AL	K	:: 2K	1(16 day)	160 x 23 km :: G	2-3 km :: 4-12 km

DATA PRODUCT LIST - Selected

Essential Data products (Level 1 Requirements) are Italicised

Prod #	Product Name	Type *	Investigator	Instrument	Platform	DAAC	Time frame	Units	Accuracy Abs :: Rel	Temporal Resolution	Horizontal Resol. :: Domain	Vertical Resol. :: Domain
2274	<i>Irradiance, Solar, Total</i>	S	Willson	ACRIM	MO	OSPAC	AL	W/m <sup>2</sup>	0.1% :: 0.0005%	1/2 min	N/A :: N/A	N/A :: TOA
2347	<i>Level-1B Radiance, AIRS</i>	S	Chahine	AIRS	PM	OSPAC	AL	W/m <sup>2</sup> /sr/um	0.2dg NEdT :: 0.2dg NEdT	2/day [d,p]	15 x 15 km :: O	N/A :: N/A
1423	<i>Cloud Height, Top</i>	M	Chahine, Smith	AIRS/AMSU	PM	OSPAC	PL	km	0.5 km :: 0.25 km	2/day [d,p]	15 x 45 km :: O	N/A :: Cloud
2463	<i>Cloud Temperature, Top</i>	M	Chahine, Smith, Rizzi	AIRS/AMSU	PM	OSPAC	AL	K	1K :: 0.5 K	2/day [d,p]	15 x 45 km :: O	N/A :: Cloud
2113	<i>Land_sfc Emissivity, Spectral (3-16um)</i>	S	Revercomb et al	AIRS/AMSU	PM	OSPAC	PL	dimensionless	0.05 :: 0.025	2/day [d,p]	15 x 45 km :: Land	N/A :: Sfc
2481	<i>Land_sfc Temperature, Skin</i>	S	Revercomb et al	AIRS/AMSU	PM	OSPAC	AL	K	1.0K :: 0.5 K	2/day [d,p]	50 km :: Land	N/A :: Sfc
2539	<i>Land_sfc Temperature-Difference, Day-Night</i>	S	Revercomb et al	AIRS/AMSU	PM	OSPAC	AL	K	0.5 K :: 0.25 K	2/day [d,p]	50 km :: O	N/A :: Sfc
2523	<i>Sea_sfc Temperature (SST)</i>	S	Revercomb et al	AIRS/AMSU	PM	OSPAC	PL	K	0.5K :: 0.4K	2/day [d,p]	50 km :: Ocean	N/A :: Sfc
1828	<i>Humidity Profile</i>	S	Suskind et al	AIRS/AMSU	PM	OSPAC	AL	g/kg	10% :: 5%	2/day [d,p]	50 km :: O	2 km :: Atmos
1588	<i>Temperature Profile</i>	S	Suskind et al	AIRS/AMSU	PM	OSPAC	AL	K	1.0K :: 0.4 K	2/day [d,p]	50 km :: O	1 km :: Atmos
3464	<i>Level-1B Radiance, ALT</i>	S	Fu	ALT	ALT	JPL	AL	dB				
3112	<i>Sea Level Height, Along-track</i>	S	Fu	ALT	ALT	JPL	AL	cm	10 cm ::		7 km :: Ocean	N/A :: Sfc
3108	<i>Topographic Elevation, Sea_sfc</i>	S	Fu	ALT	ALT	JPL	AL	cm	5cm et al ::	1/16 day	25 km :: Ocean	N/A :: Sfc
2911	<i>Ice Sheet Elevation</i>	S	Zwally	ALT	ALT	NSIDC	AL	m	5m-5m ::	1/yr	15 km :: Land/Cryo	N/A :: Sfc
2350	<i>Level-1B Radiance, AMSU-A</i>	S	Chahine	AMSU-A	PM	OSPAC	AL	K	0.2dg NEdT :: 0.2dg NEdT	2/day [d,p]	40 x 40 km :: O	N/A :: N/A
2375	<i>Level-1B Radiance, ASTER</i>	S	Japan	ASTER	AM1	EDC	AL	W/m <sup>2</sup> /sr/um	2-4% :: 1%	1/16 day	15,30,90km :: O	N/A :: at sensor
2452	<i>Brightness Temperature (at Sensor)</i>	S	Kahle	ASTER	AM1	EDC	AL	K	5NEdT :: 2NEdT	1/2-16 day	90 m :: O	N/A :: at sensor
2435	<i>Land_sfc Reflectance, Relative Spectral</i>	S	Kahle, Becker	ASTER	AM1	EDC	AL	arbitrary units	N/A :: N/A	1/2-16 day	15,30 m :: Land/R/L	N/A :: Sfc
2124	<i>Land_sfc Emissivity (3 products)</i>	S	Kahle, Becker, Christian	ASTER	AM1	EDC	AL	emissivity units	0.05-0.1 :: 0.005	1/0.5-16 day	90 m :: L	N/A :: Sfc
2828	<i>Topographic Elevation, Land_sfc, (DEM)</i>	S	Kahle, JOI	ASTER	AM1	EDC	AL	m	>50 m :: >30 m	1/mision	15 m :: Land/R/L	30 m :: Sfc
2453	<i>Land_sfc Brightness Temperature (Radiance)</i>	S	Kahle, Palluconi, Christian	ASTER	AM1	EDC	AL	K	1-2K :: 0.3	1/2-16 day	90 m :: O	N/A :: Sfc
2086	<i>Cloud Cover</i>	S	Barkstrom	CERES	TRM,AM,PM	LaRC	AL	dimensionless	5% :: 2%	6/day [d,p]	25 km :: O	N/A :: Atmos
1767	<i>Cloud Drop Phase</i>	M	Barkstrom	CERES	TRM,AM,PM	LaRC	AL	water/ice	90% Conf :: 90% Conf	1/day [Avg], 1/mo [Avg]	1.25 x 1.25 dg :: O	N/A :: Atmos
1784	<i>Cloud Drop Size(Effective Radius)</i>	M	Barkstrom	CERES	TRM,AM,PM	LaRC	AL	um	30% :: 10%	6/day [d,p]	25 km :: O	N/A :: Atmos
1429	<i>Cloud Height, Top</i>	M	Barkstrom	CERES	TRM,AM,PM	LaRC	AL	km	1.0 km :: 0.1 km	6/day [d,p]	25 km :: O	0.1 km :: Atmos
1896	<i>Cloud Liq_water Content</i>	M	Barkstrom	CERES	TRM,AM,PM	LaRC	AL	g/m <sup>3</sup>	75% :: 10%	6/day [d,p]	25 km :: O	1yr :: Atmos
2316	<i>Cloud Optical Depth, LW</i>	S	Barkstrom	CERES	TRM,AM,PM	LaRC	AL	dimensionless	25% :: 10%	6/day [d,p]	25 km :: O	N/A :: Atmos
2321	<i>Cloud Optical Depth, SW</i>	M	Barkstrom	CERES	TRM,AM,PM	LaRC	AL	dimensionless	25% :: 10%	3/day [d]	25 km :: O	N/A :: Atmos
2359	<i>Level-1B Radiance, CERES</i>	S	Barkstrom	CERES	TRM,AM,PM	LaRC	AL	W/m <sup>2</sup> /sr/um	SW 2% LW 1% :: 0.005	6/day [d,p]	25 km :: O	N/A :: N/A
2145	<i>Radiative Flux Divergence, Clear-sky</i>	S	Barkstrom	CERES	TRM,AM,PM	LaRC	AL	W/m <sup>2</sup> /km	10% :: 5%	6/day [d,p]	1.25 dg :: O	1yr :: Atmos
2149	<i>Radiative Flux Divergence, Cloudy sky</i>	S	Barkstrom	CERES	TRM,AM,PM	LaRC	AL	W/m <sup>2</sup> /km	50% :: 10%	6/day [d,p]	1.25 dg :: O	1yr :: Atmos
2169	<i>Radiative Flux, LW, Down</i>	S	Barkstrom	CERES	TRM,AM,PM	LaRC	AL	W/m <sup>2</sup>	7 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	6/day [d,p]	1.25 x 1.25 dg :: O	N/A :: Sfc
2180	<i>Radiative Flux, LW, Net</i>	S	Barkstrom	CERES	TRM,AM,PM	LaRC	AL	W/m <sup>2</sup>	7 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	6/day [d,p]	1.25 x 1.25 dg :: O	N/A :: Sfc
2205	<i>Radiative Flux, LW, Up</i>	S	Barkstrom	CERES	TRM,AM,PM	LaRC	AL	W/m <sup>2</sup>	5 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	6/day [d,p]	25 km :: O	N/A :: TOA
2221	<i>Radiative Flux, SW, Down</i>	S	Barkstrom	CERES	TRM,AM,PM	LaRC	AL	W/m <sup>2</sup>	15 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	3/day [d]	1.25 dg :: O	N/A :: Sfc
2229	<i>Radiative Flux, SW, Net</i>	S	Barkstrom	CERES	TRM,AM,PM	LaRC	AL	W/m <sup>2</sup>	15 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	3/day [d]	1.25 x 1.25 dg :: O	N/A :: Sfc
2247	<i>Radiative Flux, SW, Up</i>	S	Barkstrom	CERES	TRM,AM,PM	LaRC	AL	W/m <sup>2</sup>	15 W/m <sup>2</sup> :: 2 W/m <sup>2</sup>	3/day [d]	1.25 dg :: O	N/A :: Sfc
2297	<i>Aerosol Optical Depth</i>	M	Travis	BOSP	AERO,AM2	LaRC	AL	dimensionless	0.2 :: 10%	1/day [d]	40 km :: O	Column :: Atmos
1770	<i>Cloud Drop Phase</i>	M	Travis	BOSP	AERO,AM2	LaRC	AL	water/ice	:: 95% Corr	1/day [d]	100 km :: O	N/A :: Cloud
1774	<i>Cloud Drop Size</i>	M	Travis	BOSP	AERO,AM2	LaRC	AL	um	25% :: 25%	1/day [d]	100 km :: O	N/A :: Cloud
2313	<i>Cloud Optical Depth</i>	M	Travis	BOSP	AERO,AM2	LaRC	AL	dimensionless	20% :: 10%	1/day [d]	40 km :: O	Column :: Cloud
2336	<i>Level-1B Polarization, EOSP</i>	S	Travis	BOSP	AERO,AM2	LaRC	AL	dimensionless	0.2% :: 0.1%	1/day [d]	10-70 km :: O	N/A :: N/A
2362	<i>Level-1B Radiance, BOSP</i>	S	Travis	BOSP	AERO,AM2	LaRC	AL	W/m <sup>2</sup> /sr/um	5% :: 2%	1/day [d]	10-70 km :: O	N/A :: N/A
3644	<i>Reflectance, Bi-directional (BRDF)</i>	S	Travis	BOSP	AERO,AM2	LaRC	AL	dimensionless	5% ::	2 day [d]	10 km :: O	NA :: Cloud, Sfc
2862	<i>Geodetic EOS-platform Position</i>	S	Melbourne	GGI	ALT	JPL	AL	cm	:: <3 cm	7 1/s		:: In situ
2364	<i>Level-1B Radiance, GGI</i>	S	Melbourne	GGI	ALT	JPL	AL					
2912	<i>Ice Sheet Elevation</i>	S	Bentley	GLRS-A	ALT	NSIDC	AL	mm	100 mm :: 100 mm	1/mo	75 m :: Land/Cryo	N/A :: Sfc
2831	<i>Topographic Elevation-Change Rate, Land_sfc</i>	S	Cohen, Schutz et al	GLRS-A	ALT	OSPAC	AL	mm/day -mm/yr	5 mm/yr ::	1/yr	100-900 km :: Land/R	:: Sfc
1400	<i>Cloud Height</i>	M	Spinhirne	GLRS-A	ALT	OSPAC	AL	m	75 m ::	1/2-16 day	2-10 km :: O	75 m ::
1014	<i>Aerosol Layer Boundary Height</i>	S	Spinhirne et al	GLRS-A	ALT	OSPAC	AL	m	150 m ::	1/2-16 day	2-200 km :: O	75 m :: Atmos
2291	<i>Aerosol Optical Depth</i>	M	Spinhirne et al	GLRS-A	ALT	OSPAC	AL	dimensionless	20% ::	1/2-16 day	2-200 km :: O	N/A :: Atmos
1425	<i>Cloud Height, Top</i>	M	Spinhirne et al	GLRS-A	ALT	OSPAC	AL	m	75 m ::	1/2-16 day	200 m :: O	75 m :: Cloud
2308	<i>Cloud Optical Depth</i>	M	Spinhirne et al	GLRS-A	ALT	OSPAC	AL	dimensionless	0.1 ::		2-200 km :: O	N/A :: Cloud

\* S: Single Instrument Product, M: Multi-Instrument Product

DATA PRODUCT LIST - Selected

Essential Data products (Level 1 Requirements) are Italicised

Prod #	Product Name	Type *	Investigator	Instrument	Platform	DAAC	Time frame	Units	Accuracy Abs :: Rel	Temporal Resolution	Horizontal Resol. :: Domain	Vertical Resol. :: Domain
1055	<i>CFC-11(CFC11) Conc</i>	S	Barnett, Gillo	HIRDLS	CHEM	GSFC	AL	mix ratio	5-10% :: 1-10%	2/day [d.p]	4 x 4 dg :: O	1 km :: 7-30 km
1047	<i>CFC-12(CFC12) Conc</i>	S	Barnett, Gillo	HIRDLS	CHEM	GSFC	AL	mix ratio	5-10% :: 1-10%	2/day [d.p]	4 x 4 dg :: O	1 km :: 7-30 km
1085	<i>CH Conc</i>	S	Barnett, Gillo	HIRDLS	CHEM	GSFC	AL	mix ratio	5-10% :: 1-10%	2/day [d.p]	4 x 4 dg :: O	1 km :: 7-65 km
1837	<i>H2O Conc</i>	S	Barnett, Gillo	HIRDLS	CHEM	GSFC	AL	mix ratio	5-10% :: 1-10%	2/day [d.p]	4 x 4 dg :: O	1 km :: 7-80 km
2369	Level-1B Radiance, HIRDLS	S	Barnett, Gillo	HIRDLS	CHEM	GSFC	AL	W/m <sup>2</sup> /sr/um				
1239	<i>N2O Conc</i>	S	Barnett, Gillo	HIRDLS	CHEM	GSFC	AL	mix ratio	5-10% :: 1-10%	2/day [d.p]	4 x 4 dg :: O	1 km :: 7-60 km
1318	<i>O3 Conc</i>	S	Barnett, Gillo	HIRDLS	CHEM	GSFC	AL	mix ratio	5-10% :: 1-10%	2/day [d.p]	4 x 4 dg :: O	1 km :: 7-80 km
1608	Temperature Profile	S	Barnett, Gillo	HIRDLS	CHEM	GSFC	AL	K	1K;2K>50km :: 0.3K;1K>50km	2/day [d.p]	4 x 4 dg :: O	1 km :: 7-80 km
2384	Level-1B Radiance, LIS	S	Christian	LIS	TRM	MSFC	AL	W/m <sup>2</sup> /sr/um				
3642	Lightning Occurrence (Location,Time)	S	Christian	LIS	TRM	MSFC	AL		10 km (in 100km POV) ::		07 dg :: O	N/A :: Atmos
3643	Lightning Radiant Energy	S	Christian	LIS	TRM	MSFC	AL				07 dg :: O	N/A :: Atmos
2352	Level-1B Radiance, MHS	S	Chahine	MHS	PM	OSPC	AL	K	0.2dg NEDT :: 0.2dg NEDT	2/day [d.p]	15 x 15 km :: O	N/A :: N/A
3598	Cloud Liq_water Total Column	S	TBD	MIMR	PM1	MSFC	AL	mg/cm <sup>2</sup>			22 km :: Ocean	N/A :: Trop
3602	Level-1B Radiance, MIMR	S	TBD	MIMR	PM1	MSFC	AL	K		1 day	1 dg :: Global	N/A ::
3600	Precipitation Rate	S	TBD	MIMR	PM1	MSFC	AL	mm/hr?			22 km :: Global	N/A :: Sfc
3611	Sea_Ice Conc	S	TBD	MIMR	PM1	NSIDC	AL				22 km :: Ocean/Cryo	N/A :: Sfc
3613	Sea_Ice Extent	S	TBD	MIMR	PM1	NSIDC	AL				22 km :: Ocean/Cryo	N/A :: Sfc
3603	Sea_sfc Temperature (SST)	S	TBD	MIMR	PM1	MSFC	AL	K			60 km :: Ocean	N/A :: Sfc
3607	Snow Cover	S	TBD	MIMR	PM1	NSIDC	AL				22 km :: Land	N/A :: Sfc
3594	Wind Stress, Sea_sfc	S	TBD	MIMR	PM1	MSFC	AL	m/s			39 km :: Ocean	N/A :: Sfc
2298	Aerosol Optical Depth	M	Diner	MISR	AM	LaRC	AL	dimensionless	0.05/10% :: 0.05/10%	1/5-16 day) [d]	1.92 km :: R	Column :: Atmos
2335	Aerosol Phase Function, Asymmetric	S	Diner	MISR	AM	LaRC	AL	dimensionless	0.05 :: 0.05	1/5-16 day) [d]	1.9 km :: R	Column :: Atmos
1994	Aerosol Size-distribution	M	Diner	MISR	AM	LaRC	AL	dimensionless	15% :: 10%	1/5-16 day)	1.9 km :: R	Column :: Atmos
2011	Albedo, Planetary Spectral, TOA	S	Diner	MISR	AM	LaRC	AL	dimensionless	<=0.03 :: 0.01	1/5-16 day) [d]	1.92 km :: O	N/A :: TOA
2010	Albedo, Planetary Spectral, TOA	S	Diner	MISR	AM	LaRC	AL	dimensionless	<=0.03 :: 0.01	1/5-16 day) [d]	240 m :: R	N/A :: TOA
2039	Cloud Reflectance, Bi-directional, (BRDF)	S	Diner	MISR	AM	LaRC	AL	/sr	3% :: 1%	(variable) [d]	1.92 km :: O	N/A :: Trop
2038	Cloud Reflectance, Bi-directional, (BRDF)	S	Diner	MISR	AM	LaRC	AL	/sr	3% :: 1%	(variable) [d]	240 m :: R	N/A :: Trop
2631	Land_sfc Reflectance, Bi-directional, (BRDF)	S	Diner	MISR	AM	LaRC	AL	/sr	5% :: 2%	1/5-16 day) [d]	1.92 km :: O	N/A :: Sfc
2632	Land_sfc Reflectance, Bi-directional, (BRDF)	S	Diner	MISR	AM	LaRC	AL	/sr	5% :: 2%	1/5-16 day) [d]	240 m :: R	N/A :: Sfc
2386	Level-1B Radiance, MISR	S	Diner	MISR	AM	OSPC	AL	W/m <sup>2</sup> /sr/um	3% :: 1%	1/5-16 day) [d]	1.92 km :: O	N/A :: TOA
2387	Level-1B Radiance, MISR	S	Diner	MISR	AM	OSPC	AL	W/m <sup>2</sup> /sr/um	3% :: 1%	1/5-16 day) [d]	240 m :: R	N/A :: TOA
2846	Topographic Elevation, Land_sfc	S	Diner	MISR	AM	LaRC	AL	m	100 m :: 100 m	1/mission	500 m :: Land	N/A :: Sfc
1030	BrO(Br*81-O) Conc	S	Waters	MLS	TBD	OSPC	AL	mix ratio	:: 1x10-12	1/mo. (z. mean)	0.1 x 2.5 dg :: 82N-82S	2.5 km :: 15-50 km
1107	ClO Conc	S	Waters	MLS	TBD	OSPC	AL	mix ratio	<=5% :: 0.3-3x10-10	2/day [d.p]	0.1 x 2.5 dg :: 82N-82S	2.5 km :: TPSE, 70 km
1838	H2O Conc	S	Waters	MLS	TBD	OSPC	AL		:: 2% <50km	2/day [d.p]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: TPSE, 100 km
2388	Level-1B Radiance, MLS	S	Waters	MLS	TBD	OSPC	AL	K		2/day [d.p]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: Trop-150 km
1240	N2O Conc	S	Waters	MLS	TBD	OSPC	AL	mix ratio	<=5% :: 1-10x10-8	2/day [d.p]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: TPSE, 65 km
1319	O3 Conc	S	Waters	MLS	TBD	OSPC	AL		<= 3% :: 1%(<50km)	2/day [d.p]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: TPSE, 110 km
1328	O3 Conc	S	Waters	MLS	TBD	OSPC	AL		:: 10%	2/day [d.p]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: TPSE, 70 km
1369	SO2 Conc	S	Waters	MLS	TBD	OSPC	AL	mix ratio	:: 5x10-10	2/day [d.p]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: TPSE, 30 km
1609	Temperature Profile	S	Waters	MLS	TBD	OSPC	AL	K	:: 2K <100km)	2/day [d.p]	0.1 x 2.5 dg :: 82N-82S	2.5 km [1.2] :: TPSE, 120 km
2575	Chlorophyll Fluorescence Line Height	S	Abbott	MODIS	AM,PM	OSPC	AL	mW/cm <sup>2</sup> /sr/um	.004 :: .001	1/day, 1/wk	4 km :: Ocean/O,R	N/A :: TOO
2602	Ocean Productivity, Primary, Near_sfc (via	S	Abbott	MODIS	AM,PM	OSPC	PL	mg-C/m <sup>3</sup> /day	:: 50-100%	1/day, 1/wk	1 km :: Ocean-I/R,L	N/A :: TOO
2527	Sea_sfc Temperature (SST)	S	Brown	MODIS	AM,PM	OSPC	AL	K	0.3-0.5 K :: 0.1-0.3 K	1/day, 1/wk, 1/mo	1 km :: Ocean/L	N/A :: Sfc
2570	Chlorophyll_a Conc	S	Carder	MODIS	AM,PM	OSPC	AL	mg/m <sup>3</sup>	50% :: 10%	1/day, 1/wk, 1/mo	1 km :: Ocean-I/O,R	N/A :: TOO
2581	Organic Matter Conc, Dissolved	S	Carder	MODIS	AM,PM	OSPC	PL	mg/m <sup>3</sup>	150% :: 30%	1/day, 1/wk, 1/mo	1 km :: Ocean/R,L	N/A :: TOO
2571	Chlorophyll_a Conc	S	Clark	MODIS	AM,PM	OSPC	AL	mg/m <sup>3</sup>	30% :: 10%	1/day, 1/wk, 1/mo	1 km :: Ocean-I/L	N/A :: TOO
2311	Cloud Optical Depth	M	King	MODIS	AM,PM	OSPC	AL	dimensionless	20% :: 10%	1/day [d]	5 km :: O	N/A :: Cloud
1764	Cloud Drop Phase	M	King, Menzel	MODIS	AM,PM	OSPC	AL	water/ice	90% Conf :: 90% Conf	1/day	5 km :: O	N/A :: Cloud
1780	Cloud Drop Size(Effective Radius)	M	King, Menzel	MODIS	AM,PM	OSPC	AL	um	0-40% :: 5%	1/day	5 km :: O	N/A :: Cloud
2467	Cloud Temperature, Top	M	Menzel	MODIS	AM,PM	OSPC	AL	C	2 C :: 1 C	2/day	5 km :: O	N/A :: Cloud
3646	Radiance, At-Satellite, MODIS Level-1	S	Salomonson, Barker	MODIS	AM,PM	OSPC	AL					
2338	Level-1B Radiance, MODIS<3um	S	Salomonson	MODIS	AM,PM	OSPC	AL	W/m <sup>2</sup> /sr/um	5%(1 S) :: RMS<NEEdL	1/day	0.5 km :: O	N/A :: N/A

DATA PRODUCT LIST - Selected

Essential Data products (Level 1 Requirements) are *Italicised*

Prod #	Product Name	Type *	Investigator	Instrument	Platform	DAAC	Time frame	Units	Accuracy Abs :: Rel	Temporal Resolution	Horizontal Resol. :: Domain	Vertical Resol. :: Domain
2339	Level-1B Radiance, MODIS<3um	S	Salomonson	MODIS	AM,PM	GSFC	AL	W/m <sup>2</sup> /sr/um	5%(1Σ) :: RMS<NEdL	1/day	1 km :: O	N/A :: N/A
2392	Level-1B Radiance, MODIS<3um	S	Salomonson	MODIS	AM,PM	OSPC	AL	W/m <sup>2</sup> /sr/um	5%(1Σ) :: RMS<NEdL	1/day	0.25 km :: O	N/A :: N/A
2340	Level-1B Radiance, MODIS>3um	S	Salomonson	MODIS	AM,PM	GSFC	AL	W/m <sup>2</sup> /sr/um	1%(1Σ) :: RMS<NEdL	1/day	1 km :: O	N/A :: N/A
3641	Cloud Cover	S	Salomonson?	MODIS	AM,PM	GSFC	AL	%	10% :: 5%	1/mo (day & night)	0.25 km :: O	N/A :: Cloud
2484	Land sfc Temperature	S	Wan	MODIS	AM,PM	BDC	AL	C	1 C :: 1 C	1/day, 1/wk	1 km :: Land/R	N/A :: Sfc
2606	Ocean Productivity, Primary	M	Bassas	MODIS *	AM,PM	OSPC	AL	mg/m <sup>3</sup>	<35% :: <20%	1/wk, 1/mo, 1/yr	20 km :: Ocean/O,R	N/A :: TOO
2416	Level-2 Radiance, Water-leaving	S	Gordon et al	MODIS *	AM,PM	OSPC	AL	mW/cm <sup>2</sup> /sr/um	5% :: 5%	1/day, 1/wk, 1/mo	1 km :: Ocean/R,L	N/A :: Sfc
2750	Vegetation Index	S	Justice, Huoto et al	MODIS *	AM,PM	BDC	AL	dimensionless	0.01 :: 0.01	1/day, 1/wk, 1/mo	0.5 km :: Land/R	N/A :: Sfc
2430	Land_sfc Reflectance, Directional	M	Kaufman et al	MODIS *	AM,PM	EDC	AL	dimensionless	0.01 :: 0.005	1/day	0.5 km :: O	N/A :: Sfc
2379	Level-2 Radiance, Land_leaving	S	Kaufman, Tauro	MODIS *	AM,PM	OSPC	AL	W/m <sup>2</sup> /sr/um	10% :: 5%	1/day	1 km :: Land/R	N/A :: Sfc
2381	Level-2 Radiance, Land_leaving	S	Kaufman, Tauro	MODIS *	AM,PM	OSPC	AL	W/m <sup>2</sup> /sr/um	10% :: 5%	1/day	0.5 km :: Land/R	N/A :: Sfc
2404	Land_sfc Radiance-Correction, Topographic	M	Muller	MODIS *	AM,PM	EDC	AL			1/day	1 km :: Land/R	N/A :: Sfc
2434	Land_sfc Reflectance, Directional	M	Muller, Strahler	MODIS *	AM,PM	EDC	AL	fraction	10% :: 5%	1/day	1.1 km :: R	N/A :: Sfc
2583	Organic Matter Conc, Dissolved	M	Parlow et al	MODIS *	AM,PM	GSFC	AL	mg/m <sup>3</sup>	150% :: 30%	1/day, 1/wk, 1/mo	1 km :: Ocean [Southern]R,L	N/A :: TOO
3154	Sea_Ice Max Extent	M	Salomonson	MODIS *	AM,PM	NSIDC	AL	km <sup>2</sup>	<=5% :: <=5%	1/day, 1/wk, 1/mo	1 km :: Ocean/Cryo,R	N/A :: Sfc
3021	Snow Cover	M	Salomonson	MODIS *	AM,PM	NSIDC	AL	km <sup>2</sup>	<=5% :: <=5%	1/day, 1/wk	1 km :: Land/R	N/A :: Sfc
2268	PAR, Incident, (IPAR)	S	Tauro	MODIS *	AM,PM	EDC	PL	MJ/m <sup>2</sup>	200 :: 5 - 20%	1/day, 1/wk	1 km :: O,R	N/A :: Atmos
2294	Aerosol Optical Depth, Spectral	M	Tauro, Kaufman	MODIS *	AM,PM	OSPC	AL	dimensionless	0.05 :: 0.02	1/day, 1/mo	0.5 dg :: Ocean	N/A :: Atmos
1022	Aerosol Size-distribution (Radius-Dispersion)	M	Tauro, Kaufman	MODIS *	AM,PM	OSPC	AL	um, dimensionless	10-30% :: 10%	1/day, 1/mo	0.5 dg :: O,R	N/A :: Atmos
2015	Albedo, Land_sfc	M	Tauro, Muller	MODIS *	AM,PM	EDC	PL	dimensionless	15% :: 5 - 8%	1/day, 1/wk	1 km :: O,R	N/A :: Sfc
2424	Land_sfc Reflectance, Bi-directional, (BRDF)	M	Tauro, Muller	MODIS *	AM,PM	EDC	PL	%	15% :: 5 - 8%	1/day, 1/wk	1 km :: O,R	N/A :: Sfc
1096	CH4 Total Burden	S	Drummond	MOPITT	AM1	LaRC	AL	ppbv	:: 1%	1(12 s) [7]	120 km :: O	Column :: Atmos
1126	CO Conc	S	Drummond	MOPITT	AM1	LaRC	AL	ppb	:: 10%	1(0.4 s) [7]	22 km :: O	3-4 km :: 0-15 km
1137	CO Total Burden	S	Drummond	MOPITT	AM1	LaRC	AL	ppb	:: 10%	1(4 s) [7]	66 km :: O [dy]	Column :: Atmos
2394	Level-1B Radiance, MOPITT	S	Drummond	MOPITT	AM1	LaRC	AL	W/m <sup>2</sup> /sr/um	2% ::	1(0.4 s) [7]	22 km :: O	Column :: Atmos
1012	Aerosol Extinction Coef	S	McCormick	SAQB-III	AERO,CHEM	LaRC	AL	kcm	5% :: 5%	1(2 min), 30/day	<2 x <1 dg :: O	1 km :: 0-40 km
1841	H2O Conc	M	McCormick	SAQB-III	AERO,CHEM	LaRC	AL	/cm <sup>3</sup> &ppmv	10% :: 15%	1(2 min), 30/day	<2 x <1 dg :: O	1 km :: 3-50 km
2543	Level-1B Transmission, SAQB-III	S	McCormick	SAQB-III	AERO,CHEM	LaRC	AL	dimensionless	0.05% :: 0.05%	1(2 min), 30/day	200 x 2.5 km :: O	1-2 km :: 0-90 km
1321	O3 Conc	S	McCormick	SAQB-III	AERO,CHEM	LaRC	AL	/cm <sup>3</sup> &ppmv	6% :: 5%	1(2 min), 30/day	<2 x <1 dg :: Polar	1 km :: 6-85 km
2398	Level-1B Irradiance, SOLSTICE	S	Rotzman	SOLSTICE	MO	OSPC	AL	W/m <sup>2</sup>		1/hr	2 dg :: O	1 km :: Mid_atm
2108	Level-1B Backscatter Coef	S	Freilich	STIKSCAT	CHEM	JPL	AL	dB	:: 0.25 dB		25 km :: O	N/A :: Sfc
1680	Wind Velocity, Sea_sfc	S	Freilich	STIKSCAT	CHEM	JPL	AL	m/s dg	:: 10%; 16 deg	1(2 day)	25 km :: Ocean	N/A :: Near_Sfc
1087	CH4 Conc	S	Beer	TES	CHEM	LaRC	AL	ppb	:: 14 ppb	1(16 day)	16 x 5 km :: O	4-6 km :: 0-12 km
1129	CO Conc	S	Beer	TES	CHEM	LaRC	AL	ppb	:: 3 ppb	1(16 day)	16 x 5 km :: O	4-6 km :: 0-12 km
1843	H2O Conc, Stratospheric	S	Beer	TES	CHEM	LaRC	AL	ppm	:: 0.5 ppm	1(16 day)	160 x 23 km :: O	2-3 km :: 13-30 km
1842	H2O Conc, Tropospheric	S	Beer	TES	CHEM	LaRC	AL	ppm	:: 50 ppm	1(16 day)	160 x 23 km :: O	2-3 km :: 4-12 km
2402	Level-1B Radiance, TES	S	Beer	TES	CHEM	LaRC	AL					
1267	NO Conc	S	Beer	TES	CHEM	LaRC	AL	ppt	:: 15 ppt	1(16 day)	160 x 23 km :: O	2-3 km :: 4-12 km
1278	NO2 Conc	S	Beer	TES	CHEM	LaRC	AL	ppt	:: 500 ppt	1(16 day)	160 x 23 km :: O	2-3 km :: 4-12 km
1325	O3 Conc	S	Beer	TES	CHEM	LaRC	AL	ppb	:: 13 ppb	1(16 day)	16 x 5 km :: O	4-6 km :: 0-12 km
1370	SO2 Conc	S	Beer	TES	CHEM	LaRC	AL	ppt	:: 600 ppt	1(16 day)	160 x 23 km :: O	2-3 km :: 4-12 km
1616	Temperature Profile	M	Beer	TES	CHEM	LaRC	AL	K	:: 2K	1(16 day)	160 x 23 km :: O	2-3 km :: 4-12 km