EarthCARE JAXA Product List

概要

本資料は、JAXA が開発する雲エアロゾル放射ミッション(EarthCARE)プロダクトのリストである。

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EarthCARE/CPR プロジェント (アンドロン連用システム推進性) EORC (BarthCARE 利用研究)							34.	i di												
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EarthCARE JAXA

Product List

January 2016

Japan Aerospace Exploration Agency (JAXA)

Document Change Record

Revision	Date	Description of Change
NC	June 2011	Baseline release
A	August 2011	The mistypings of the CPR L1b accuracies were corrected.
В	August 2012	Updated the whole document due to the upgrade of the algorithms to Ver0.1.
С	December 2012	 Deleted CPR L1b NRT Product Added Auxiliary Product (ECMWF). Added Product ID. Corrected the mistyping. Added JAXA Product List extracted from Joint Product List as Annex. Changed Status "Red R" to "UP"
D	August 2013	Updated based on the JAXA CDR.
Е	January 2016	 Corrected ECMWF-AUX Product Definition Added L2 ATBD in Reference

1 Introduction

1.1 Purpose and Scope

The purpose of the "EarthCARE JAXA Product List" is to describes the EarthCARE JAXA Level 2 product list with the CPR Level 1 products.

1.2 Related Documents

The related documents to this document are listed below.

1.2.1 Reference Documents

The following documents are the reference documents for this document.

- [RD-1] EarthCARE/CPR JAXA Ground Segment Concept Document, MAS-110008
- [RD-2] EarthCARE ESA-JAXA Operational Interface Agreement (OIA), EC-ICD-ESA-GS-0215
- [RD-3] EarthCARE JAXA Level 2 Algorithm Theoretical Basis Document (L2 ATBD), NDX-110018

2 Product List

The following table details the JAXA products.

The meanings of each column are below;

– Sensor(s):

This is the name of the EarthCARE sensor(s) used to create the each product

Processing Level:

This is the processing level (either L1b, L2a or L2b) of each product.

- Status:
 - "ST" = Standard product
 - "UP" = Research product that would be \underline{UP} graded to standard after one year or later when the release accuracy is approved.
 - "ER" = Research product that would be processed in JAXA $\underline{\mathbf{E}}$ ORC Research and Application System. Some are processed at JAXA/MOS when products are produced as by-product of the Standard processing.
 - "LR" = Research product that would be processed in Japanese Laboratories.

Detailed of each product is explained in Section 3.

Product Identifier:

This is the product identifier which will be included in the header of HDF file.

The unit of a file is equal to the unit of the product identifier for the standard products.

Product Name:

This name identifies the summary of the parameters included in the file.

- Primary Parameters:

This identifies the name of the primary physical parameters that are included in the file.

Pixel Integration Length:

This is the length (size) of the data that are integrated to retrieve each pixel. The accuracy is defined using the "product resolution" in red italic numbers.

- Pixel Spacing:

This is the distance between the neighboring pixels.

- Release Accuracy:

This is the threshold accuracy used to decide whether the product will be released or not.

Standard Accuracy:

Those parameters that satisfy this accuracy are recognized as scientifically good.

Target Accuracy:

Those parameters that satisfy this accuracy are recognized as scientifically fine.

3 Product Category

JAXA's products are categorized as standard or research products. The differences between the categories are the following;

(1) Standard Products (ST)

- strongly promoted to be developed and released
- processed and released from JAXA/Mission Operation System (MOS)
- all data will be able to be sent to ESA when produced
- warranted by JAXA with their accuracies

(2) Research Products

- promoted to be developed and released
- no responsibility to process all of observation data; some will generate research products for some target duration.
- further divided into two groups;
 - Upgrade Research Product (UP)
 - will be upgraded to standard after one year or later when the release accuracy is approved. Through the process, standard algorithm will be implemented into Mission Operation System and processed for all of observation data [RD-1].
 - EORC Research Products (ER)
 - released from JAXA/Earth Observation Research Center (EORC) Research and Application System
 - processed at JAXA/EORC Research and Application System. Some are processed at JAXA/MOS when products are produced as by-product of the Standard processing.
 - Laboratory Research Products (LR)
 - from cooperating Japanese Laboratories

4 Product Format

EarthCARE science product format is NetCDF4/HDF5. JAXA MOS use HDF5 (version 5.18 or later) format which is compatible with NetCDF4 for JAXA products. And JAXA products contain all ESA and JAXA required header information [RD-1]. These are defined in the OIA [RD-2].

5 Product Frame

The ESA-JAXA science product frame format is defined in [RD-2].

Table 1. JAXA Product List

標準プロダクト(L1b)

Standard Products (L1b

U	tariuai	u Frouuc	CO (LID)														
Γ.	センサ	処理レベル	ステータス	プロダクト 識別子	プロダ	クト名	主要パラ	√ —9	グリッ	ド間隔	空間角	军像度	リリース精度	標準精度	目標精度	データ容量 (/周回)	
									水平	鉛直	水平	鉛直				(TBD)	
Se	ensor(s)	Processing Level	Status	Product ID	Produc	t Name	Primary Par	ameter	Grid S	pacing	Spatial R	esolution	Release Accuracy	Standard Accuracy	Target Accuracy	Data Volume (/orbit)	
									Horizontal	Vertical	Horizontal	Vertical				(TBD)	А
							受信電力	Received Echo Power		0.1km		0.5km	< 4.7dB	< 2.7dB	-		пL
							レーダ反射因子	Radar Reflectivity Factor	1	U. IKIII	0.765km*3	0.3811	< 4.7dB	< 2.7dB	< 2.7dB	1	
	CPR	L1b	ST	CPR_NOM	CPR単体 受信電力・ドップラー	CPR One-sensor Received Echo Power		Surface Radar Cross Section	0.5km	-	(crosstrack)	-	-	-	-	420MB	
					プロダクト	and Doppler Product		Doppler Velocity	1		0.840km*3		-	≦ 1.3m/s	< 0.2m/s	1	
							パルスペア共分散	Pulse Pair Covariance		0.1km	(along-track)	0.5km	-	-	-	1	
L							スペクトル幅	Spectrum Width					-	-	-	1	-11

標準プロダクト(L2a)

Standard Products (1.2a

Standa	rd Produc	ts (L2a)													
センサ	処理レベル	ステータス	プロダクト 識別子	プロダ	クト名	主要パラン	(—9	グリッ	ド間隔	空間角	军像度	リリース精度	標準精度	目標精度	データ容量 (/周回)
	D							水平	鉛直	水平	鉛直	Bulance	Standard	T	(TBD)
Sensor(s)	Processing Level	Status	Product ID	Produc	t Name	Primary Par	ameter	Grid S	pacing	Spatial Resolution		Release Accuracy	Accuracy	Target Accuracy	Data Volume (/orbit)
								Horizontal	Vertical	Horizontal	Vertical	1			(TBD)
				CPR単体	CPR One-sensor	積分レーダ反射因子	Integrated Radar Reflectivity Factor			1km 10km		-	-	-	
CPR	L2a	ST	CPR_ECO	エコープロダクト	Echo Product	積分ドップラー速度	Integrated Doppler Velocity	1km	0.1km	1km 10km	0.5km	-	≦ 1.3m/s	< 0.2m/s	950MB
						大気減衰補正量	Gas Correction Factor			1km 10km		-	-	-	
						雲マスク	Cloud Mask			1km 10km		±30%	±10%	±5%	
						雲粒子タイプ Cloud Particle Type		1km 10km		±100%	±50%	±20%			
						雲水量	Liquid Water Content		0.1km	1km 10km	0.5km	-	±100%	±50%	
CPR	L2a	ST	CPR_CLP	CPR単体 雲プロダクト	CPR One-sensor Cloud Product	雲氷量	Ice Water Content	1km	O.TRIII	1km 10km	U.UKIII	-	-	-	1080MB
				水雲有効粒径	Effective Radius of Liquid Water Cloud			1km 10km		-	-	-			
						氷雲有効粒径	Effective Radius of Ice Water Cloud			1km 10km		-	-	-	
						光学的厚さ	Optical Thickness		-	1km 10km	-	-	±100%	±50%	
						フィーチャー・マスク	Feature Mask	L1b最小 単位 1km 10km		L1b最小 単位 1km 10km		±100%	±40%	±10%	
						ターゲット・マスク	Target Mask			1km 10km		±100%	±40%	±10%	
						エアロゾル 消散係数	Aerosol Extinction Coeff.					±60%	±40%	±20	
						Agreed	±90%	±70%	±50%						
ATLID	L2a	ST	ATL CLA	ATLID単体 雲エアロゾルプロダク	ATLID One-sensor Cloud and Aerosol	エアロゾル ライダー比	Aerosol Lidar Ratio		0.1km	TUKM	0.1km	±150%	±110%	±70%	580MB
ATLID	LZa	31	AILOLA	ト	Product	エアロゾル 偏光解消度	Aerosol Depolarization Ratio					±150%	±130%	±100%	JOUND
						雲 消散係数	Cloud Extinction Coeff.	1km		1km 10km		±50%	±30%	±15%	
						雲 後方散乱係数	Cloud Backscat, Coeff.			1km 10km		±90%	±70%	±50%	
						雲 ライダー比	Cloud Lidar Ratio			1km 10km		±140%	±100%	±65%	
						雲 偏光解消度	Cloud Depolarization Ratio			1km 10km		±150%	±100%	±100%	
						大気境界層高度	Planetary Boundary Layer Height		-	1km 10km	-	±500m	±300m	±100m	
						雲フラグ・雲フェイズ	Cloud Flag including Cloud Phase					±15% Ocean ±20% Land	±15%	±10%	
						水雲光学的厚さ	Optical Thickness of Liquid Water Cloud					±10%			
MSI	L2a	ST	MSI CLP	MSI単体	MSI One-sensor	水雲雲粒有効粒径 (1.6 µm)	Effective Radius of Liquid (1.6 µm)		_	0.5km	_		±100% (converting to	±50% (converting to	1340MB
		٥.	ST MSI_CLP	雲プロダクト	Cloud Poduct	水雲雲粒有効粒径 (2.2 μm)	Effective Radius of Liquid (2.2 µm)	0.01111	-	0.0		±30%	LWP)	LWP)	
						雲頂温度	Cloud Top Temperature				-	±1K	±3K	±1.5K	1
1						雲頂気圧	Cloud Top Pressure					-	-	-	1
1				1		雲頂高度	Cloud Top Height					-	-	-	1

標準プロダクト(L2b)

Standard Products (L2b)

センサ	処理レベル	ステータス	プロダクト 識別子	プロダ	クト名	主要パラノ	! —9	グリッ	ド間隔 鉛直	空間角水平	解度 鉛直	リリース精度	標準精度	目標精度	データ容量 (/周回) (TBD)
Sensor(s)	Processing	Status	Product ID	Produc	t Name	Primary Para	ameter	水平 Grid S		水平 Spatial R		Release	Standard		Data Volume
Consor(s)	Level	Otatas	1 100000125	110000	. Hallio	T Timber T div	3110101	Horizontal	Vertical	Horizontal	Vertical	Accuracy	Accuracy	Accuracy	(/orbit) (TBD)
						雲マスク	Cloud Mask			1km 10km		_		-	
						雲粒子タイプ	Cloud Particle Type			1km 10km		_		-	
						水雲有効粒径	Effective Radius of Liquid Water Cloud			1km 10km		-	root mean	±2μm	
CPR +	L2b	ST	AC_CLP	CPR-ATLID複合 雲プロダクト	CPR-ATLID Synergy Cloud Product	氷雲有効粒径	Effective Radius of Ice Water Cloud	1km	0.1km	1km 10km	0.5km	-	square of errors of one-	-	1120MB
ATLID	ATLID					雲水量	10	-	sensor products						
					雲水量 Ice Water Content - 1km - 1km 光学的厚さ Optical Thickness 1km - 10km	-		±30%							
						光学的厚さ	Optical Thickness		-	1km	-	-		-	
						雲マスク	Cloud Mask			1km 10km		_		-	
						雲粒子タイプ	Cloud Particle Type			1km 10km		_		-	
						水雲有効粒径	Effective Radius of Liquid Water Cloud			10km			±2μm		
CPR						氷雲有効粒径	Effective Radius of Ice Water Cloud		0.1km	1km	0.5km		root mean	-	
ATLID	L2b	ST	ACM_CLP	CPR-ATLID-MSI複合 雲プロダクト	CPR-ATLID-MSI Synergy Cloud	TLID-MSI gy Cloud 雲水量 Liquid Water Content 1km 1km 10km	-	square of errors of one-	±20%	1120MB					
MSI					Product	雲氷量	Ice Water Content			1km 10km		-	sensor products	±30%	
						光学的厚さ	Optical Thickness			1km 10km		-		_	
					気柱雲水量	Liquid Water Path		-	1km 10km	-	-		_		
						気柱雲氷量	Ice Water Path			1km 10km		-		-	
						短波放射フラックス 長波放射フラックス	SW Radiative Flux LW Radiative Flux		-		-	-	±25W/m2	±10W/m2	
CPR ATLID MSI BBR	ST	ST ALL_RAD	ALL_RAD	4センサ複合 放射収支プロダクト	Four Sensors Synergy Radiation Budget Product	短波加熱率	SW Radiative Heating Rate	10km*2	*2	10km	0.51	-	-	-	60MB
				Budget Product	長波加熱率	LW Radiative Heating Rate		0.5km*2		0.5km	-	-	-		

B C D

補助プロダクト (ECMWF)

Auxilary Products (ECMWF)

センサ	処理レベル	ステータス	プロダクト 識別子	プロダ	クト名	主要パラ	メータ	グリッ	データ容量 (/周回)		
Sensor(s)	Processing Level	Status	Product ID	Produc	t Name	Primary Pa	rameter	水平 Grid S	(TBD) Data Volume		
							Horizontal	Vertical	(TBD)		
						気圧	Pressure	1km	0.1km*4		
						気温	Temperature	1km	0.1km*4		
						比湿	Specific Humidity	1km	0.1km*4		
AUX	Aux	ST	AUX 2D	ECMWF-AUX-2D	ECMWF-AUX-2D	オゾン質量混合比	Ozone Mass Mixing Ratio	1km	0.1km*4	510MB	
AUX	Aux	51	AUX_ZD	プロダクト	Product	Product	2m気温	2m Temperature	1km	-	STUMB
						10m 東西風	10 meter U-velicity	1km	-		
						10m 南北風	10 meter V-velicity	1km	-		
						積算オゾン量	Total Column Ozone	1km	-		
						気圧	Pressure	10km	1 model layer*1		
						気温	Temperature	10km	1 model layer*1		
41104				ECMWF-AUX-3D	ECMWF-AUX-3D	比湿	Specific Humidity	10km	1 model layer*1	00110	
AUX Aux	Aux	ST	AUX_3D	プロダクト	Product	オゾン質量混合比	Ozone Mass Mixing Ratio	10km	1 model layer*1	90MB	
		I				2m気温	2m Temperature	10km	-		
		I				10m 東西風	10 meter U-velicity	10km	-		
				 	10m 南北風	10 meter V-velicity	10km	-			
						積算オゾン量	Total Column Ozone	10km	-		

The accuracy is defined using the "Pixel Integration Length" in red italic numbers.

The accuracies of CPR L1b are defined by 10km integration.

Those accuracies of CPR L1b are defined by 10km integration.

Those accuracies of ATLID is based on the information before the change of specifications.

The length of a scene is defined as the length of an orbit divided equally.

CPR-ATLID-MSI Synergy Cloud Products and Four Sensors Synergy Radiation Budget Products are the final goal of the EarthCARE mission. Therefore, they are defined as the standard products, although they will be released one year after the start of MOP.

NRT and Statistics (L2c) will be adjusted approprietably by taking user's needs into account.

*1: Depends on the resolution of ECMWF data that JAXA will receive by the time of launch

*2: The values shown are defined at the time of JAXA CDR. In future, the values may change if there are strong scientific requirements.

^{*3}: The values shown are defined when anntenna beam width was 0.095 degrees and satellite altitude was 460km.

^{*4}: The vertical grid will be in JSG vertical grid

BCD

Research Products (L2a)

Resear	ch Produ									
センサ	処理レベル	ステー タス	プロダクト 識別子	プロダ	クト名	主要パラス	ノ ータ	空間角		データ容量 (/周回)
								水平	鉛直	(TBD)
Sensor(s)	Processing Level	Status	Product ID	Produc	t Name	Primary Par	ameter		esolution	Data Volume
							Horizontal	Vertical	(TBD)	
		UP	CPR_DO	CPR単体 ドップラープロダクト	CPR One-sensor Doppler Product	ドップラー速度補正値 (不均質性考慮)	Doppler velocity correction value (considering inhomogeneity) Doppler velocity unfolding	1km 10km		280MB
						ドップラー速度折り返し補正値	value	1km 10km		
						雨水量(ドップラー無)	Rain Water Content without Doppler	1km 10km		
						雪水量(ドップラー無)	Snow Water Content without Doppler	1km 10km		
					CPR One-sensor	雨水量(ドップラー有)	Rain Water Content with Doppler	1km 10km	0.51	
CPR	R L2a ER CPR_R/		CPR_RAS	CPR単体 雨・雪プロダクト	Rain and Snow	雪水量(ドップラー有)	Snow Water Content with Doppler	1km 10km	0.5km	840MB
					Product	降雨強度	Rain Rate	1km 10km		
					降雪強度	Snow Rate	1km 10km	-		
						減衰補正済みレーダ反射因子	Attenuation Corrected Radar Reflectivity Factor	1km 10km		
		ER	CPR VVL	CPR単体	CPR One-sensor Vertical Velocity	大気鉛直速度	Vertical Air Motion	1km 10km		280MB
		LIX	OFK_VVL	鉛直速度プロダクト	Product	沈降速度	Sedimentation Velocity	1km 10km		ZOUVID
						水溶性粒子消散係数	Aerosol Extinction Coefficient (Water Soluble)	10km		
ATLID	L2a	ER	ATL_ARL	ATLID単体 エアロゾル消散係数	ATLID One-sensor Aerosol Extinction	ダスト消散係数	Aerosol Extinction Coefficient (Dust)	10km	0.1km	560MB
711212		,		プロダクト	Product	海塩消散係数	Aerosol Extinction Coefficient (Sea Salt) Aerosol Extinction Coefficient	10km	0	0001112
						ブラックカーボン消散係数	(Black Carbon)	10km		
						氷雲光学的厚さ(反射法)	Optical Thickness of Ice Cloud with Reflection method			
				MOI 25 /-	1401.0	氷雲有効粒径(1.6 μm)	Effetive Radius of Ice Cloud (1.6 µm)			
	ER	MSI_ICE	MSI単体 氷雲プロダクト	MSI One-sensor Ice Cloud Product	氷雲有効粒径(2.2 μm)	Effetive Radius of Ice Cloud (2.2 µm)	0.5km	-	580MB	
						氷雲雲頂温度	Ice Cloud Top Temperature			
MSI	L2a					氷雲雲頂気圧	Ice Cloud Top Pressure			
						氷雲雲頂高度	Ice Cloud Top Height			
						エアロゾル光学的厚さ(海)	Aerosol Optical Thickness (Ocean)			
		ER	MSI_ARL	MSI単体 エアロゾルプロダクト	MSI One-sensor Aerosol Product	エアロゾル光学的厚さ(陸)	Aerosol Optical Thickness (Land)	0.5km		290MB
				-, -, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Aerosor Product	オングストローム指数(海)	Angstrom Exponent (Ocean)			

研究プロダクト(L2b)

rch Products (L2h)

ATILD - MSI	Researc	ch Produ			I						-
Promote Pr	センサ	処理レベル	ステー タス	プロダクト 識別子	プロタ	プト名	主要パラメ	ー タ			データ容量 (/周回)
Level D	. ()	Processing	a	Product							(TBD) Data
Republic Note	Sensor(s)		Status		Produc	t Name	Primary Para	ameter			Volume
Particle Mass Ratio						CDD-ATLID Symorms	質量比(2D氷/IWC)	Mass Ratio (2D_Ice/IWC)		vertical	(TBD)
### Product (ドンプラー書) with dogolar (10m. ml.m.			UP	AC_MRA		Particle Mass Ratio	(ドップラー無) 質量比(2D氷 /IWC)				20MB
Refine Libe Fig. Refine AC_RAILD MSI を					去他只主のフログクト	Product		with doppler	10km		
Regular							雨水量(ドップラー無)				
Rame							雪水量(ドップラー無)	Snow Water Content	1km		
RATILD											
Registration		L2b	ER	AC_RAS				with Doppler	10km	0.5km	840MB
Remain	ATLID				肉・当ノロダクト	Rain & Snow Product	雪水量(ドップラー有)				
Real							Rain Rate				
Registration							降雪強度	Snow Rate			
### ACM CD Product					CPR-ATI ID複合		大気鉛直速度	Vertical Air Motion			
### ATLID MSI複合 ### ATLID MSI ### ATLID			ER	AC_VVL			沈降速度	Sedimentation Velocity	1km	_	280MB
ATLID + MSI								Aerosol Extinction Coefficient	TUKM		
### ATLID — MSI複合 ** ** ** ** ** ** ** ** ** ** ** ** **											
#### AFTILD + MSI # ACM_CD PR-ATLID-MSI複合 MAPOSIC Components Product タクト							ダスト消散係数				
### ACM_CD Product ### ACM_CD					エアロゾル成分プロ	Aerosol Components	海塩消散係数		10km	0.1km	
Registration		L2b	ER	AM_ARL		Product	ブラックカーボン消散係数				420MB
ACM_CPR+ ATILD+ MSI複合 まプロジル直接放射 強制力に対する							モード半径(小粒子)	Mode Radius (Fine Mode)			
## ACM CD PR + ATILD - MSI接合 Madaw Forcing Product ## ACM PR ACM PRODUCT ## ACM							モード半径(大粒子)	Mode Radius (Coase Mode)			
ACM_CPR + ACM_CPR + MSI						Aerosol Direct	エアロゾル直接放射強制力(TOA)	Forcing (TOA)	10km	_	
Ramp					強制カプロダクト		エアロゾル直接放射強制力(BOA)		TOKIII		
LR								Cloud Mask			20MB
LR ACM_CD P											00MD
LR ACM_CD											20MB
LR ACM_CD P								with Doppler		0.5km	
LR ACM_CD P Product Synergy Cloud Dopler D						CPR-ATLID-MSI	氷雲有効粒径			0.01(11)	
P P P P P P P P P P			LR		CPR-ATLID-MSI複合	Synergy					
CPR + ATLID + MSI				Р			(ドップラー有)		10km		
CPR + ATLID + MSI						Product	芸水重 (ドップラー有)				570MB
CPR + ATLID + MSI											
CPR + ATLID + MSI											
CPR + ATLID + MSI										-	
Rain Water Content without Doppler Doppl							気柱雲氷量	Ice Water Path	1km		
ATLID + MSI	CDD ±										
Rain Water Content with Doppler 10km Rain Water Content with Doppler 10km Name Nam	ATLID +	L2b						Doppler	10km		
LR	MSI						雪水量(ドップラー無)	Doppler	10km		
Rain and Snow Product Snow Water Content with 1km 10km				ACM RA	CPR-ATLID-MSI複合		雨水量(ドップラー有)		1km 10km		0.4014D
Page			LR			Rain and Snow	雪水量(ドップラー有)	Snow Water Content with	1km		840MB
Remark						修雨沿在 Pain Pata 1km					
LR ACM_VV CPR-ATLID-MSI複合 Synergy Vertical Velocity Product 大気鉛直速度 Vertical Air Motion 10km 10km 10km 10km 10km 10km 10km 10km							降雪強度	Snow Rate	1km		
LR ACM_VV CPR-ATLID-MSI複合 Synergy Vertical Velocity Product 沈降速度 Sedimentation Velocity 1km 10km 280						CDD_ATLID_MCI		Westerland At 14 of			
L 新自速度プロダクト Vertical Velocity Product 沈降速度 Sedimentation Velocity 1km 10km 10km			l l D	ACM_VV		Synergy	大 気鉛直速度	Vertical Air Motion			280MB
10km 10km 10km 10km 10km 10km 10km 10km			LK			Vertical Velocity	沈隆速度	Sedimentation Velocity	1km		ZOUNB
CDD_ATLID_MCI						Froduct		_	10km		
LR ACM ICF CPR-ATLID-MSI複合 CPR-ATLID-MSI CPR-ATLI			LR	ACM ICF		CPR-ATLID-MSI Synergy Ice Cloud	(赤外射出法)	derived from Emission Method	0.5km	_	20MB
・	n	L		LR ACM_ICE	E N雲プロダクト	Syriergy Ice Cloud		Optical Thickness of Ice	0.5km		

[&]quot;ST" = Standard product
"Red R" = Research product, would be processed in JAXA EORC Research and Application System, and to be upgraded to standard after one year or later when the release accuracy is approved
"ER" = Research product, would be processed in JAXA EORC Research and Application System. Some are processed at JAXA/MOS when products are produced as by-product of the Standard and
"LR" = Research product, would be processed in Japanese Laboratories.

Research Products are developed on best-effort basis and the description in the Product List is TBD; although CPR Research Products are at high priority as the releasing of the CPR Research Products are one of the full-success criteria.