

Formats for EOS-06 Scatterometer Data Products

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DOCUMENT CHANGE HISTORY

Document Version No.	Date	Changed section	Nature of change (A,M,D)*	Description
1.0	30/09/2022	All	A	Document generated.
1.1	01/04/2025	4	M	As per user requirement, data types of “CostFunction” and “CostFunctionSelection” parameters are changed to “float” (from “unsigned short int” in previous version). Scale factors for both parameters are changed to “1.0” (from “0.001” in previous version). Note: The above changes shall be reflected in L2B products-version 1.0.4, which will be operational from afternoon of 02-04-2025.

(* A: Addition, M: Modification, D: Deletion)

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1. EOS-06 Scatterometer Data Products

Table 1.1 provides a list of EOS-06 Scatterometer Data Products.

Table 1.1: List of EOS-06 Scatterometer Data Products		
No.	Level of product	Description of the product
1	Level 1B	Scan mode sigma – 0
2	Level 2A	Grid mode sigma – 0
3	Level 2B	Grid mode wind
4	Level 3SH	Global sigma – 0 product (Horizontal polarization)
5	Level 3SV	Global sigma – 0 product (Vertical polarization)
6	Level 3W	Global wind product

Level-1B, Level-2A and Level-2B products are available for half orbits viz., South Pole to North Pole or North Pole to South Pole for all 14/15 orbits per day for Scatterometer. Level-3 products are available day-wise. Level-3 products for a given day are updated, as and when the data corresponding to single/multiple half orbits for a particular day is/are received and processed. Level-2 and Level-3 products are available for 12.5 km and 25 km grids in HDF5 format. All product files will have “.h5” extension to indicate the format of the products viz., Hierarchical Data Format (HDF) – Version 5.

2.0 List of parameters for Level-1B products

Table 2.1 describes the structure for Level 1B header record.

Table 2.1: Level-1B header structure				
No.	Element Name	No. of bytes	Storage Format	Remarks/Typical Values
1	ProductIdentification	129	string	Scatterometer L1B Product containing time-ordered Earth-located sigma0s
2	OrganizationName	17	string	ISRO-DOS
3	SatelliteName	17	string	EOS-06
4	SensorName	17	string	Scatterometer
5	DataFormatType	17	string	NCSA-HDF
6	DataFormatVer	17	string	HDF5.1.6.4
7	ProcessorVer	17	string	v1.0.0
8	EquatorCrossing Longitude (Descending)	9	8.3f	
9	EquatorCrossingDate	22	string	2017-299T05:03:11.000
10	OrbitPeriod	9	8.3f	49.617 (in minutes)
11	OrbitInclination	9	8.3f	98.280
12	OrbitSemiMajorAxis	9	8.3f	7098.137
13	OrbitEccentricity	9	8.6f	0.001130
14	RevNumber	12	string	05727_05728
15	Direction	3	string	NS (for Descending node), SN (for ascending node)
16	RangeBeginningDate	22	string	
17	RangeEndingDate	22	string	
18	EphemerisType	17	string	ECEF
19	ProductionDate	22	string	2022-272T15:01:15.000
20	SkipStartTime	5*22	string	Denotes start time of gap(s) in the data
21	SkipStopTime	5*22	string	Denotes end time of gap(s) in the data
22	SkipStartScan	5*5	4d	Denotes start scan of gap(s) in the data
23	SkipStopScan	5*5	4d	Denotes end scan of gap(s) in the data
24	PRF	5	4d	in Hz
25	Slice Bandwidth	9	string	in KHz
26	Overlapped Binning	3	string	2 or 4

27	Onboard processor precision	3	String	32
28	Onboard processor mode	8	String	DEF-1, DEF-2, CUSTOM, HR
29	Payload Chain	5	String	MAIN/REDN (for redundant chain)
30	L1bActualScans	5	4d	~800
31	SliceSize	9	7.3f	in km in slant range
32	LatScale	17	16.12f	Refer Table 2.9
33	LonScale	17	16.12f	
34	IncAngleScale	17	16.12f	
35	AziAngleScale	17	16.12f	
36	RelAziAngleScale	17	16.12f	
37	Kpa Scale	17	16.12f	
38	Kpb Scale	17	16.12f	
39	Kpc Scale	17	16.12f	
40	Doppler Scale	17	16.12f	
41	Range Scale	17	16.12f	
42	Sigma0 Scale	17	16.12f	
43	SNR Scale	17	16.12f	
44	X-factor Scale	17	16.12f	
45	Brightness Temperature Scale	17	16.12f	
46	Lat Offset	17	16.12f	
47	Lon Offset	17	16.12f	
48	IncAngle Offset	17	16.12f	
49	AziAngle Offset	17	16.12f	
50	RelAziAngle Offset	17	16.12f	
51	Kpa Offset	17	16.12f	
52	Kpb Offset	17	16.12f	
53	Kpc Offset	17	16.12f	
54	Doppler Offset	17	16.12f	
55	Range Offset	17	16.12f	
56	Sigma0 Offset	17	16.12f	
57	SNR Offset	17	16.12f	
58	X-factor Offset	17	16.12f	
59	Brightness Temperature Offset	17	16.12f	
60	Formula to derive value Of a Parameter	23	string	Scale*Value + Offset
61	Remarks	13	string	OPER_DEC_2022

Table 2.2 describes the structure for output parameters of Scan Header.

Table 2.2: Output parameters : Scan header			
Element Name	Storage Type	No. of bytes	Scale Factor
ScanStartTime	char	22	-N.A.-
ScanNumber	uint16	2	1
NumFootprints	uint16	2	1

Level 1B output parameters at footprint level are described in Table 2.3.

Table 2.3: Output parameters at footprint level for Level-1B product		
Element Name	Storage Type	No. of bytes
Kp	Float32	4
FootprintNumber	uint16	2
Latitude	uint16	2
Longitude	uint16	2
IncidenceAngle	uint16	2
AzimuthAngle	uint16	2
Antenna Azimuth Angle	uint16	2
KpA	uint16	2
KpB	uint16	2
KpC	uint16	2
DopplerFreq	uint16	2
Range	uint16	2
Sigma0	uint16	2
SNR	uint16	2
XFactor	uint16	2
Sigma0Flag	uint16	2
Brightness Temperature	uint16	2
Number of Slices	uint8	1

Table 2.4 describes Level 1B output parameters at slice level.

Table 2.4: Output parameters at slice level for Level-1B product		
Element Name	Storage Type	No. of bytes
Kp	Float32	4
Latitude	uint16	2
Longitude	uint16	2
IncidenceAngle	uint16	2
AzimuthAngle	uint16	2
Antenna Azimuth Angle	uint16	2

KpA	uint16	2
KpB	uint16	2
KpC	uint16	2
DopplerFreq	uint16	2
Range	uint16	2
Sigma0	uint16	2
SNR	uint16	2
XFactor	uint16	2
Brightness Temperature	uint16	2
Sigma0 flag	uint16	2
Poor Sigma0 flag	uint8	1
Invalid Sigma0 flag	uint8	1
Slice Number	uint8	1

Table 2.5 describes Level 1B output parameters (in group *OAT_data*).

Table 2.5: OAT parameters for Level-1B			
Element Name	Storage Type	No. of bytes	Scale Factor
OAT record time	char	22	-N.A.-
Roll	float32	4	1
Pitch	float32	4	1
Yaw	float32	4	1
Satellite Position (X-component)	float32	4	1
Satellite Position (Y-component)	float32	4	1
Satellite Position (Z-component)	float32	4	1
Satellite Velocity (X-component)	float32	4	1
Satellite Velocity (Y-component)	float32	4	1
Satellite Velocity (Z-component)	float32	4	1

Parameters in group *science_data* are provided for every scan (interval of 3.75 seconds). The prime objective of flagging scheme is to differentiate between node direction (ascending/descending), looks (fore/aft), and classification of geographical boundaries (land-sea and sea-ice). The description of quality flag is provided in Tables 2.6 to 2.8.

Table 2.6: Description of Sigma0_flag (data type: uint16)			
Bit No.	Hex Val	Equal to 0 when	Equal to 1 when
0	0001	DES	ASC
1	0002	HH	VV
2	0004	AFT	FORE
3	0008	Sea	Land

4	0010	Good sigma0(summary)	Poor sigma0(summary) : Any bit of detail poor sigma0 flag equals 1
5	0020	Valid sigma0(summary)	Invalid sigma0(summary) : Any bit of detail invalid sigma0 flag equals 1
6	0040	Good BT	Poor BT : Noise sample(s) used for blending saturated
7	0080	Valid BT	Invalid BT : Noise sample(s) not available from payload
8	0100	no land-sea boundary	land-sea boundary
9	0200	+ve sigma0	-ve sigma0
10	0400		
11	0800		
12	1000		
13	2000	No ice	Ice
14	4000	Data available at a given latitude-longitude for sea-ice flagging process for 2 or more number of days	Missing Data at a given latitude-longitude for sea-ice flagging process for 2 or more number of days
15	8000	No ice-ocean Contamination (valid only in case of footprint composites)	Ice-ocean Contamination (valid only in case of footprint composites)

Table 2.7: Description of Poor_Sigma0_flag (data type: uint8)			
Bit No.	HexVal	Equal to 0 when	Equal to 1 when
0	01	Noise unsaturated	Noise sample(s) used for blending saturated
1	02	Count unsaturated	Count sample(s) used for interpolating saturated
2	04		
3	08		
4	10		
5	20	Good SNR*	SNR < -39.0 dB
6	40		
7	80		

*=The limit of SNR has been refined considering noise equivalent sigma0 value of the sensor and usability of a measurement for wind retrieval.

Table 2.8: Description of Invalid_Sigma0_flag (data type: uint8)			
Bit No.	HexVal	Equal to 0 when	Equal to 1 when
0	01	Data available from payload	Data not available from payload
1	02	Slice within sample array limit	Slice not within sample array limits
2	04	$P_{S+N} - P_{Noise} \neq 0.0^*$	$P_{S+N} - P_{Noise} = 0.0$
3	08		
4	10		
5	20		
6	40		
7	80		

*=When P_{S+N} acquires a value equal to P_{Noise} (as indicated by the condition), corresponding SNR and sigma0 values becomes, which is non representable in dB scale. This condition has been kept to avoid that situation.

NOTE: At footprint level, no detail flags are stored.

Invalid value of a parameter is indicated by a value 65535.

Whenever any physical parameter such as sigma0, SNR, BT etc. is showing value of 65535, all flags corresponding to that parameter may not indicate meaningful information depending on the parameter.

The information about scale and offset factors used in Level-1B is provided in Table 2.9.

Table 2.9: Scale & offset factors for Level-1B product		
Parameter	Scale	Offset
Latitude	0.002757	-90.0
Longitude	0.005515	0.0
Inc. Angle	0.0002451	46.0
Azi. Angle	0.005515	0.0
Rel.Azi.Angle	0.005515	0.0
Kpa	0.0000154	0.0
Kpb	0.0000154	0.0
Kpc	0.0000154	0.0
Doppler	20.0	-600000.0
Range	8.0	900000.0
Sigma0	0.001618	-96.0
SNR	0.001547	-65.0
Xfactor	0.000613	-120.0
Bri. Temp.	0.01	0.0

For any parameter, the actual value will be

$$\text{act_double_value} = \text{coded_value} * \text{scale} + \text{offset}$$

where coded_value is parameter value provided in product.

3.0 List of parameters for Level-2A products

Table 3.1 describes Level 2A header record structure.

Table 3.1: Level-2A header record				
No.	Element Name	No. of bytes	Storage Format	Remarks/Typical Values
1	ProductIdentification	129	string	Scatterometer L2A Product containing flagged sigma0s in swath grid Same as the corresponding fields in Level-1B header record (Refer Table 2.1)
2	OrganizationName	17	string	
3	SatelliteName	17	string	
4	SensorName	17	string	
5	DataFormatType	17	string	
6	DataFormatVer	17	string	
7	ProcessorVer	17	string	
8	EquatorCrossingLongitude (Descending)	9	string	
9	EquatorCrossingDate	22	string	
10	OrbitPeriod	9	string	
11	OrbitInclination	9	string	
12	OrbitSemiMajorAxis	9	string	
13	OrbitEccentricity	9	string	
14	RevNumber	12	string	
15	Direction	3	String	
16	RangeBeginningDate	22	string	
17	RangeEndingDate	22	string	
18	EphemerisType	17	string	
19	ProductionDate	22	string	
20	SkipStartTime	5*22	string	
21	SkipStopTime	5*22	string	
22	L2aActual WVCRows	5	4d	~820 (for 25 km product) ~1640 (for 12.5 km product)
23	L2aActualWVCCells	5	4d	72 (for 25 km product), 144 (for 12.5 km product)
24	WVCSize	8	7.3f	12.5 (for 12.5 km product) 25 (for 25 km product)
25	LatitudeScale	17	16.12f	Refer Table 3.4
26	LongitudeScale	17	16.12f	
27	IncAngleScale	17	16.12f	
28	AziAngleScale	17	16.12f	
29	KpAScale	17	16.12f	
30	KpBScale	17	16.12f	
31	KpCScale	17	16.12f	
32	Sigma0Scale	17	16.12f	
33	SNRScale	17	16.12f	

34	Brightness Temperature Scale	17	16.12f	
35	LatitudeOffset	17	16.12f	
36	LongitudeOffset	17	16.12f	
37	IncAngleOffset	17	16.12f	
38	AziAngleOffset	17	16.12f	
39	KpAOffset	17	16.12f	
40	KpBOffset	17	16.12f	
41	KpCOffset	17	16.12f	
42	Sigma0Offset	17	16.12f	
43	SNROffset	17	16.12f	
44	Brightness Temperature Offset	17	16.12f	
45	Formula to derive value of a Parameter	23	string	Scale*Value + Offset
46	Remarks	13	string	OPER_DEC_2022

Level 2A output parameters are provided in Table 3.2.

Table 3.2: Output parameters for Level-2A product				
Element Name	Storage Type	No. of Bytes	Typical dimensions	
			12.5 km x 12.5 km	25 km x 25 km
WVCRowTime	char	22	1720	860
RowIndex	uint16	2	1720	860
NumSigma0PerRow	uint16	2	1720	860
NumSigma0PerCell	uint16	2	1720x144	860x72
LatitudeFootprint	uint16	2	1720x3500	860x3500
LongitudeFootprint	uint16	2	1720x3500	860x3500
IncidenceAngle	uint16	2	1720x3500	860x3500
AzimuthAngle	uint16	2	1720x3500	860x3500
Sigma0	uint16	2	1720x3500	860x3500
SNR	uint16	2	1720x3500	860x3500
KpA	uint16	2	1720x3500	860x3500
KpB	uint16	2	1720x3500	860x3500
KpC	uint16	2	1720x3500	860x3500
Sigma0QualFlag	uint16	2	1720x3500	860x3500
Brightness Temperature	uint16	2	1720x3500	860x3500
CellIndex	uint16	2	1720x3500	860x3500

Bit-wise representation of Sigma0 quality flag for Level-2A product is provided in table 3.3.

Table 3.3: Description of Sigma-0 Quality Flag for Level-2A product			
Bit No.	Hex Val	Equal to 0 when	Equal to 1 when
0	0001	DES	ASC
1	0002	HH	VV
2	0004	AFT	FORE
3	0008	Sea	Land
4	0010	Good sigma0(summary)	Poor sigma0(summary) : Any bit of detail poor sigma0 flag in Level-1B data equals 1
5	0020	Valid sigma0(summary)	Invalid sigma0(summary) : Any bit of detail invalid sigma0 flag in Level-1B equals 1
6	0040	Good BT	Poor BT : Noise sample(s) used for blending saturated
7	0080	Valid BT	Invalid BT : Noise sample(s) not available from payload
8	0100	no land-sea boundary	land-sea boundary
9	0200	+ve sigma0	-ve sigma0
10	0400		
11	0800		
12	1000		
13	2000	No ice	Ice
14	4000	Data available at a given latitude-longitude for sea-ice flagging process for 2 or more number of days	Missing Data at a given latitude-longitude for sea-ice flagging process for 2 or more number of days
15	8000	No ice-ocean Contamination	Ice-ocean Contamination

Invalid value of a parameter is indicated by a value 65535. It may be noted that whenever any physical parameter such as latitude, longitude, incidence angle, azimuth angle, relative azimuth angle, range, sigma0, SNR, xfactor etc. is indicated as 65535, all flags corresponding to that parameter may not indicate meaningful information depending on the parameter.

The information about various scale and offset factors for Level-2A product is provided in Table 3.4:

Table 3.4: Scale and offset factors for Level-2A product		
Parameter	Scale	Offset
Latitude	0.002757	-90.0
Longitude	0.005515	0.0
Inc. Angle	0.0002451	46.0

Azi. Angle	0.005515	0.0
kpa	0.0000154	0.0
kpb	0.0000154	0.0
kpc	0.0000154	0.0
Sigma0	0.001618	-96.0
SNR	0.001547	-65.0
Brightness Temperature	0.01	0.0

For any parameter, the actual value will be

$$\text{actual_value} = \text{coded_value} * \text{scale} + \text{offset}$$

where coded_value is parameter value provided in product.

4.0 List of parameters for Level-2B products

Table 4.1 provides Level 2B header record structure.

Table 4.1: Level-2B header structure				
No.	ElementName	No. of bytes	Storage Format	Remarks/Typical Values
1	ProductIdentification	129	string	Scatterometer L2B Product containing flagged wind vectors in swath grid Same as the corresponding fields in Level-1B header record (Refer table 2.1)
2	OrganizationName	17	string	
3	SatelliteName	17	string	
4	SensorName	17	string	
5	DataFormatType	17	string	
6	DataFormatVer	17	string	
7	ProcessorVer	17	string	
8	EquatorCrossingLongitude (Descending)	9	8.3f	
9	EquatorCrossingDate	22	string	
10	OrbitPeriod	9	8.3f	
11	OrbitInclination	9	8.3f	
12	OrbitSemiMajorAxis	9	8.3f	
13	OrbitEccentricity	9	8.6f	
14	RevNumber	12	string	
15	RangeBeginningDate	22	string	
16	RangeEndingDate	22	string	
17	EphemerisType	17	string	
18	ProductionDate	22	string	
19	SkipStartTime	5*22	string	
20	SkipStopTime	5*22	string	
21	L2BActualWVCRows	5	4d	~820 (for 25 km product) ~1640 (for 12.5 km product)
22	L2BActualWVCCells	5	4d	72 (for 25 km product), 144 (for 12.5 km product)
23	WVCSize	9	8.3f	12.5 (for 12.5 km product) 25 (for 25 km product)
24	LatitudeScale	9	8.6f	Refer Table 4.2
25	LongitudeScale	9	8.6f	
26	ModelSpeedScale	9	8.6f	
27	ModelDirScale	9	8.6f	
28	WindSpeedScale	9	8.6f	
29	WindDirScale	9	8.6f	
30	CostFunctionScale	9	8.6f	

31	WindSpeedSelScale	9	8.6f	
32	WindDirSelScale	9	8.6f	
33	Formula to derive value of parameters	15	string	Scale*Value
34	Remarks	13	string	OPER_DEC_2022

Level 2B output parameters are provided in Table 4.2.

Table 4.2: Level-2B product parameters			
Element Name	Storage Type	No. of Bytes	Scale Factor
WVCRowTime	char	22	-N.A.-
RowIndex	uint16	2	1
Latitude	int16	2	0.01
Longitude	uint16	2	0.01
ModelSpeed	int16	2	0.01
ModelDir	uint16	2	0.01
NumAmbigs	char8	1	1
WindSpeed	int16	2	0.01
WindDir	uint16	2	0.01
CostFunction	float	4	1.0
WVCSelection	char8	1	1
WindSpeedSelection	int16	2	0.01
WindDirSelection	uint16	2	0.01
RainCorrectedWindSpeed	Int16	2	0.01
CostFunctionSelection	float	4	1.0
WVCQualFlag	uint16	2	1

For any parameter, the actual value will be

$$\text{actual_value} = \text{coded_value} * \text{scale_factor}$$

where coded_value is parameter value provided in product.

Bit-wise representation of wind vector quality flag for Level-2A product is provided in table 4.3.

Table 4.3: Wind Vector Quality Flag			
Bit Number	Related Parameter	Bit Value	Significance
0	Rain-Flag	0	Rain-flagging not attempted
		1	Rain-flagging attempted
1		0	Rain-free
		1 ^{\$}	Rain present /doubtful
2	Ambiguity Filter	0	Model data available
		1	Model data not available
		3	0
1			Amb filtered without model
4		0	Sufficient neighbors
		1	Insufficient neighbours, Ambiguity not filtered
5	Vector quality	0	Retrieval attempted
		1	Retrieval aborted due to poor quality or insufficient sigma0 data
		6	0
1			Winds out of range or no solutions
7		0	Quality good wrt to rain
		1	High winds, possibly rain contamination
8	Surface	0	Pure ocean
		1	Coastal ocean (within 50 km)
9	Atmospheric Correction	0	Correction data available
		1	Correction data not available
10	Orbit-mean sigma0	0	Normal
		1	Abnormal
11	Orbit-mean wind speed	0	Normal
		1	Abnormal
12	Net negative sigma0	0	No Net negative sigma0
		1	Net negative sigma0 present, absolute value used for retrieval
13-15	Spares		
* Rain flagging makes use of post-retrieval rain probabilities, indicated by value given in retrieval cost function for 6th wind vector solution. The threshold values of 0.7 is used for rain-flagging indicated in Bit Number 1. * WVC_quality_flag = 65534 indicates a WVC without any wind observation			

5.0 List of parameters for Level-3 products

Table 5.1 describes Level-3 header record structure.

Table 5.1: Level-3 header structure				
No.	ElementName	No. of bytes	Storage Format	Remarks/Typical Values
1	ProductIdentification	129	string	Scatterometer L3S (L3W in case of Level-3 Wind) Product containing flagged sigma0s (wind vectors in case of Level-3 Wind) in global grid
2	OrganizationName	17	string	Same as the corresponding fields in Level-1B header record (Refer table 2.1)
3	SatelliteName	17	string	
4	SensorName	17	string	
5	DataFormatType	17	string	
6	DataFormatVer	17	string	
7	ProcessorVer	17	string	
8	EquatorCrossing Longitude (Descending)	16*9	8.3f	
9	EquatorCrossing Date	16*22	string	
10	OrbitInclination	9	8.3f	
11	OrbitSemi MajorAxis	9	8.3f	
12	OrbitEccentricity	9	8.6f	
13	ProductionDate	22	string	
14	StartRevNumber	12	string	12345_12346
15	EndRevNumber	12	string	12350_12351
16	StartRevTime	22	string	
17	EndRevTime	22	string	
18	L3WVCRows	5	4d	720 (for 25 km product), 1440 (for 12.5 km product)
19	L3WVCCells	5	4d	1440 (for 25 km product), 2880 (for 12.5 km product)
20	WVCSize	9	8.3f	12.5 (for 12.5 km product) 25 (for 25 km product)
21	ProdTypeIndicator	11	string	sigma0 (for L3SV and L3SH products) windvec (for L3W products)

22	WindSpeedScale	9	8.6f	Refer Table 5.2(a) and 5.2(b)
23	WindDirScale	9	8.6f	
24	Sigma0Scale	17	8.6f	
25	Sigma0 Standard Deviation Scale	17	8.5f	
26	Sigma0 Offset	17	string	
27	Sigma0 Standard Deviation Offset	17	string	Scale*value+offset
28	Formula to derive value of a Parameter	23	string	

Level 3 output parameters for wind and sigma-0 products are described in Tables 5.2(a) and 5.2(b) respectively.

Table 5.2(a): Parameters for Sigma-0 product (Level-3S)

Element Name	Storage Type	Num Bytes	Scale Factor	Offset
Sigma0	int16	2	0.001618	-96.0
Sigma0QualFlag	uint16	2	-N.A.-	-N.A.-
Std. dev. Sigma0	int16	2	0.01	0
Number of points averaged	int16	2	1	0

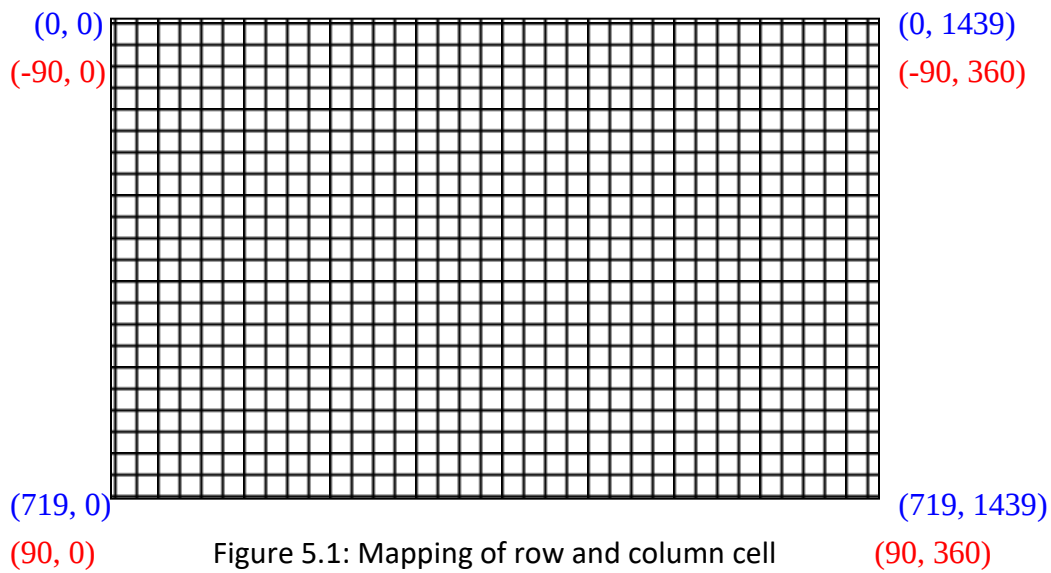
Table 5.2(b): Parameters for Wind product (Level-3W)

Element Name	Storage Type	Num Bytes	Scale Factor
AscWindSpeed	int16	2	0.01
AscWindDir	uint16	2	0.01
AscWindQualFlag	uint16	2	1
DesWindSpeed	int16	2	0.01
DesWindDir	uint16	2	0.01
DesWindQualFlag	uint16	2	1

Interpretation of quality flag in Level-3S is same as that of Level-2A product. Interpretation of quality flag in Level-3W is same as that Level-2B product.

6.0 Mapping of Grid cells of Level-3S & 3W to Latitude and Longitude on earth

Figure 5.1 demonstrates the correspondence between physical latitude (-90 to +90) to row cells (0 to 359) and longitude (0 to 360) to column cells (0 to 719) for 25 km grid of Level-3 (Sigma-0 VV & HH and Wind) products. In the figure, product boundaries in terms of cell numbers are shown in blue colour and corresponding latitude/ longitude are depicted in red colour.



7.0 File naming conventions

The following describes file naming conventions.

Level-1 and Level-2 products:

E06SCTLPPYYYYDDD_AAAAA_BBBBB_ZZ_yyyy-dddThh-mm-ss_v1.0.0.h5 (for L1B products)

E06SCTLPPYYYYDDD_AAAAA_BBBBB_ZZ_GGkm_yyyy-dddThh-mm-ss_v1.0.0.h5 (for L2 products)

where:

- E06: (E-ZERO-SIX) stands for mission identifier
- SCT: indicates scatterometer payload
- L: corresponding Level of the product
- PP – product type i.e., 1B, 2A, 2B
- YYYY – year when data is imaged
- DDD – Julian day when data is imaged
- AAAAA - starting orbit number
- BBBBB - ending orbit number
- ZZ - direction i.e., NS for descending node or SN for ascending node
- GG - grid i.e., 12 (for 12.5 km) or 25 for (25 km) – applicable to Level-2A & 2B products
- yyyy – product generation year
- ddd – product generation Julian day
- hh– product generation time in hours
- mm – product generation time in minutes
- ss – product generation time in seconds

Level-3 products:

E06SCTL3PPYYYYDDD_GGkm_v1.0.0.h5

Where:

- E06: (E-ZERO-SIX) stands for mission identifier

- SCT: indicates scatterometer payload
- L: corresponding Level of the product
- PP – product type i.e., SV, SH, WW
- YYYY - year
- DDD - Julian day
- GG - grid i.e., 12 (for 12.5km) or 25 (for 25km)

The last 5 characters before the file extension (i.e. 1.0.0) in file names for all products (Levels 1, 2 and 3) denote the version number and can change with release of major/minor revisions in the data processing chain.