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Table 5. File Descriptor Record.

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Record sequence number = 1  
1st record sub-type code = 63  
Record type code = 192  
2nd record sub-type code = 18  
3rd record sub-type code = 18  
Length of this record = 720  
ASCII/EBCDIC Flag = A

Format control document ID for this data file format = CEOS-SAR-CCT  
Format control document revision level = B  
File design descriptor revision letter = B  
Generating software release and revision level = ERS2-RAW-6.8  
File number = 1  
File name = ERS2.SAR.RAWLEAD  
Record sequence and location type flag = FSEQ  
Sequence number location = 1  
Sequence number field length = 4  
Record Code and location type flag = FTYP  
Record code location = 5  
Record code field length = 4  
Record length and location type flag = FLGT  
Record length location = 9  
Record length field length = 4

Number of data set summary records = 1  
Data set summary record length = 1886  
Number of map projection data records = 0  
Map projection record length = 0  
Number of platform pos. data records = 1  
Platform position record length = 1046  
Number of attitude data records = 0  
Attitude data record length = 0  
Number of radiometric data records = 0  
Radiometric record length = 0  
Number of rad. compensation records = 0  
Radiometric compensation rec. length = 0  
Number of data quality summary records = 0  
Data quality summary record length = 0  
Number of data histograms records = 0  
Data histogram record length = 0  
Number of range spectra records = 0  
Range spectra record length = 0  
Number of DEM descriptor records = 0  
DEM descriptor record length = 0  
Number of radar par. update records = 0  
Radar par. update record length = 0  
Number of annotation data records = 0  
Annotation data record length = 0  
Number of det.processing records = 0  
Det.processing record length = 0  
Number of calibration records = 0  
Calibration record length = 0  
Number of GCP records = 0  
GCP record length = 0

Number of facility data records = 2  
Facility data record maximum length = 12288

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Table 6. RAW Dataset Summary Record.

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Record sequence number = 2  
1-st record sub-type code = 10  
Record-type code = 10  
2 nd record sub-type code = 31  
3 rd record sub-type code = 20  
Length of this record = 1886  
Data Set Summary Record sequence number (starts at 1) = 1

-----  
Scene Parameters.  
-----

SAR channel indicator = 1

Scene reference number (e.g. orbit - frame number) = ORBIT=05405-FRAME=2799  
Scene centre time (UTC) <YYYYMMDDhhmmsssttt> = 19960502163209928

Processed scene centre geodetic latitude = 40.0800000  
(positive for North latitude, negative for South latitude)  
Processed scene centre longitude = 273.0880000  
Processed scene centre true heading (Not provided by the VMP) =  
-9999999.9999999  
Ellipsoid designator = GEM6  
Ellipsoid semimajor axis = 6378.1440000  
Ellipsoid semiminor axis = 6356.7590000  
Earth mass times gravitational constant (M . G) = 3.9860044  
  
Ellipsoid J2 parameter = 1082.2800000  
Ellipsoid J3 parameter = -2.3000000  
Ellipsoid J4 parameter = -0.2000000

Scene centre line number = 00014000  
(the line number at the scene centre including zero fill)  
Scene centre pixel number = 00002808  
(the pixel number at the scene centre including zero fill)  
Processed scene length including zero fill = 111.3840000  
Scene width including zero fill = 44.3888640

-----  
General Mission / Sensor Parameters.  
-----

Number of SAR channels = 0001

Sensor platform mission identifier = ERS2  
Sensor ID and mode of operation for this channel = SAR- C-HR-IM-VV

<AAAAAA-BB-CC-DD-EF> where :

AAAAAA = sensor identifier; BB = SAR band;  
CC = resolution mode code; DD = imaging mode code;  
E = transmit polarisation; F = receiver polarisation

Orbit number = 5405  
Sensor platform geodetic latitude at nadir  
corresponding to scene centre (positive for North latitude) = 39.329  
Sensor platform longitude at nadir  
corresponding to scene centre (negative for West longitude) = -83.427  
Sensor platform heading at nadir corresponding to scene centre = 194.078  
(clockwise positive from North)  
Sensor clock angle as measured relative to sensor platform flight direction =  
90.000  
Incidence angle at scene centre = 23.763

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Radar frequency = 5.300  
Radar wavelength = 0.0566660  
Motion compensation indicator = 00  
(00=no compensation,01=on board compensation  
10=in processor compensation,11=both on board and in processor)  
Range pulse code specifier = LINEAR FM CHIRP  
Nominal range pulse (chirp) amplitude coefficient, Constant term =  
1.0000000e+00  
Nominal range pulse (chirp) amplitude coefficient, Linear term =  
0.0000000e+00  
Nominal range pulse (chirp) amplitude coefficient, Quadratic term =  
0.0000000e+00  
Nominal range pulse (chirp) amplitude coefficient, Cubic term =  
0.0000000e+00  
Nominal range pulse (chirp) amplitude coefficient, Quartic term =  
0.0000000e+00  
Nominal range pulse (chirp) phase coefficient, Constant term =  
0.0000000e+00  
Nominal range pulse (chirp) phase coefficient, Linear term = 0.0000000e+00  
Nominal range pulse (chirp) phase coefficient, Quadratic term =  
2.0889400e+11  
Nominal range pulse (chirp) phase coefficient, Cubic term = 0.0000000e+00  
Nominal range pulse (chirp) phase coefficient, Quartic term = 0.0000000e+00  
Down linked chirp extraction index = 29

Range sampling rate = 18.9624680  
Range gate delay at early edge (in time) at the start of the image =

Range pulse length = 37.1200000

Range compressed flag (YES = range compressed data) = NO

Quantization per channel I & Q = 00000005  
Quantizer descriptor = UNIFORM IQ  
DC Bias for I-component (actual value) = -0.0400000  
DC Bias for Q-component (actual value) = 0.0190000  
Gain imbalance for I & Q (actual value) (Not provided by the VMP) =  
-9999999.9999999

Antenna mechanical boresight angle relative to platform vertical axis =  
20.3550000

Pulse Repetition Frequency (PRF) (actual value) = 1679.9020000

-----  
Sensor Specific Parameters.  
-----

Satellite encoded binary time code = 4063880035  
Satellite clock time (UTC) <YYYYMMDDhhmmssttt\$\$\$\$...\$> = 19960502160948243

Satellite clock step length = 3906249  
-----

General Processing Parameters.  
-----

Processing facility identifier (D-PAF, UK-PAF, ES) = ES  
Processing system identifier (VMP for D-PAF, UK-PAF and ES) = VMP  
Processing version identifier = 6.8

Product type specifier = SAR RAW SIGNAL DATA  
Processing algorithm identifier (Not relevant for the RAW product) =

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Nominal number of looks processed in azimuth (Not relevant for the RAW product) = -9999999.9999999  
Nominal number of looks processed in range (Not relevant for the RAW product) = -9999999.9999999  
Bandwidth per look in azimuth (null-to-null) (Not relevant for the RAW product) = -9999999.9999999  
Bandwidth per look in range (Not relevant for the RAW product) = -9999999.9999999  
Total processor bandwidth in azimuth (Not relevant for the RAW product) = -9999999.9999999  
Total processor bandwidth in range (Not relevant for the RAW product) = -9999999.9999999  
Weighting function designator in azimuth (Not relevant for the RAW product) =  
Weighting function designator in range (Not relevant for the RAW product) =  
Data input source = HDDT  
Nominal resolution in range (3-dB width) (Not relevant for the RAW product) = -9999999.9999999  
Nominal resolution in azimuth (3-dB width) (Not relevant for the RAW product) = -9999999.9999999  
Along track Doppler frequency centroid at early edge of image, Constant term (Not provided for the RAW product) = -9999999.9999999  
Along track Doppler frequency centroid at early edge of image, Linear term (Not provided for the RAW product) = -9999999.9999999  
Along track Doppler frequency centroid at early edge of image, Quadratic term (Not provided for the RAW product) = -9999999.9999999  
Cross track Doppler frequency centroid at early edge of image, Constant term (Not provided for the RAW product) = -9999999.9999999  
Cross track Doppler frequency centroid at early edge of image, Linear term (Not provided for the RAW product) = -9999999.9999999  
Cross track Doppler frequency centroid at early edge of image, Quadratic term (Not provided for the RAW product) = -9999999.9999999  
Time direction indicator along pixel direction = INCREASE  
Time direction indicator along line direction = INCREASE  
Along track Doppler frequency rate at early edge of image, Constant term (Not provided for the RAW product) = -9999999.9999999  
Along track Doppler frequency rate at early edge of image, Linear term (Not provided for the RAW product) = -9999999.9999999  
Along track Doppler frequency rate at early edge of image, Quadratic term (Not provided for the RAW product) = -9999999.9999999  
Cross track Doppler frequency rate at early edge of image, Constant term (Not provided for the RAW product) = -9999999.9999999  
Cross track Doppler frequency rate at early edge of image, Linear term (Not provided for the RAW product) = -9999999.9999999  
Cross track Doppler frequency rate at early edge of image, Quadratic term (Not provided for the RAW product) = -9999999.9999999  
Line content indicator = RANGE  
Clutterlock applied flag = NOT  
Autofocussing applied flag = NOT  
Line spacing = 3.9780000  
Pixel spacing = 7.9040000  
Processor range compression designator (Not provided for the RAW product) =

-----  
Sensor Specific Local Use Segment.

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-----  
Zero-doppler range time (two-way) of first range pixel = 5.5456750  
Zero-doppler range time (two-way) of centre range pixel = 5.6937570  
Zero-doppler range time (two-way) of last range pixel = 5.8418390  
Zero-doppler azimuth time of first azimuth pixel (UTC) = 02-MAY-1996  
16:32:01.595  
Zero-doppler azimuth time of centre azimuth pixel (UTC) = 02-MAY-1996  
16:32:09.928  
Zero-doppler azimuth time of last azimuth pixel (UTC) = 02-MAY-1996  
16:32:18.262

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Table 7. Raw Platform Position Data Record.  
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Record sequence number = 3  
1-st record sub-type code = 10  
Record-type code = 30  
2 nd record sub-type code = 31  
3 rd record sub-type code = 20  
Length of this record (not fixed length) = 1046

-----  
Positional Data Points.  
-----

Number of data points (always 5 for the VMP) = 0005  
Year of data point <YYYY> = 1996  
Month of data point <\$\$MM> = 0005  
Day of data point <\$\$DD> = 02  
Day in the year <GMT> (1st January = Day 1) = 0123  
Seconds of day of data = 5.952159500000000E+04  
Time interval between data points = 4.167000000000000E+00  
Reference coordinate system = Earth Centred Rotating

Greenwich mean hour angle (Not provided by the VMP) = -9.999999999999998E+03  
Along track position error (Not provided by the VMP) = -9999999.9999999  
Across track position error (Not provided by the VMP) = -9999999.9999999  
Radial position error (Not provided by the VMP) = -9999999.9999999

-----  
1th Positional Data Point.  
-----

1th data point - Position vector X = 6.450338400000000E+05  
1th data point - Position vector Y = -5.464265840000000E+06  
1th data point - Position vector Z = 4.579472370000000E+06  
1th data point - Position vector X' = -1.281359540000000E+03  
1th data point - Position vector Y' = -4.875366140000000E+03  
1th data point - Position vector Z' = -5.622002810000000E+03

-----  
2th Positional Data Point.  
-----

2th data point - Position vector X = 6.396823400000000E+05  
2th data point - Position vector Y = -5.484528110000000E+06  
2th data point - Position vector Z = 4.556002840000000E+06  
2th data point - Position vector X' = -1.287204830000000E+03  
2th data point - Position vector Y' = -4.849954610000000E+03  
2th data point - Position vector Z' = -5.642709130000000E+03

-----  
3th Positional Data Point.  
-----

3th data point - Position vector X = 6.343065600000001E+05  
3th data point - Position vector Y = -5.504684290000000E+06  
3th data point - Position vector Z = 4.532447250000000E+06

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3th data point - Position vector X' = -1.293010540000000E+03  
3th data point - Position vector Y' = -4.824448360000000E+03  
3th data point - Position vector Z' = -5.663309070000000E+03

-----  
4th Positional Data Point.

-----  
4th data point - Position vector X = 6.289066700000000E+05  
4th data point - Position vector Y = -5.524734000000000E+06  
4th data point - Position vector Z = 4.508806040000000E+06  
4th data point - Position vector X' = -1.298776510000000E+03  
4th data point - Position vector Y' = -4.798847870000000E+03  
4th data point - Position vector Z' = -5.683802240000000E+03

-----  
5th Positional Data Point.

-----  
5th data point - Position vector X = 6.234828500000000E+05  
5th data point - Position vector Y = -5.544676830000000E+06  
5th data point - Position vector Z = 4.485079670000000E+06  
5th data point - Position vector X' = -1.304502570000000E+03  
5th data point - Position vector Y' = -4.773153670000000E+03  
5th data point - Position vector Z' = -5.704188260000000E+03

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Table 8. Raw Facility Related Data Record (General Type).

\*\*\*\*\*  
Record sequence number = 4  
1-st record sub-type code = 10  
Record-type code = 200  
2 nd record sub-type code = 31  
3 rd record sub-type code = 50  
Length of this record = 12288  
Name of this facility related data record = FACILITY RELATED DATA RECORD [ESA  
GENERAL TYPE]

-----  
Signal Data Quality.

-----  
Date of last release of QC software (Not relevant for the RAW product) =

Date of the last calibration update <YYMMDD> (Not relevant for the RAW  
product) =  
Overall QA summary flag (Sum of the next 9 following flags) = 0000  
PRF code change flag (0 = PRF constant in scene) = 0  
Sampling window start time change flag (0 = SWST constant) = 0  
Cal. system & receiver gain change flag (0 = Cal/Rx gain constant) = 0  
Chirp replica quality flag (0 = Replica XCF in limits) = 0  
Input data statistics flag (0 = Raw data mean & sd in limits) = 0  
Doppler centroid confidence measure flag (0 = in limits) = 0  
Doppler centroid value (0 = Dopp-centroid less than PRF/2) = 0  
Doppler ambiguity confidence measure flag (0 = in limits) = 0  
Output data Mean flag (0 = Image mean or sd in limits) = 0  
On ground / on board range compressed flag (0 = OGRC,1=OBRC) = 0  
Number of PRF code changes = 0  
Number of sampling window time changes = 0  
Number of calibration subsystems gain changes = 0  
Number of missing lines (i.e. raw data input lines) = 0  
Number of receiver gain changes = 0  
3-dB width of Cross Correlation Function (CCF) between first extracted chirp  
and nominal chirp [for Bangkok processor this is the CCF between best  
extracted chirp  
and nominal chirp] = 1.1350000

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First side lobe level of chirp CCF = -9.6070000
ISLR of chirp CCF = -6.7910000
Doppler centroid confidence measure = 0.0000000
(value normalized such that it takes a value of zero for the best case
and a value of one for the worst case)
Doppler ambiguity confidence measure = 0.0000000
(value normalized such that it takes a value of one for the best case
and a value of zero for the worst case)
Estimated mean of I input data (once the nominal bias of 15.5 has been
applied) = -0.0400000
Estimated mean of Q input data (once the nominal bias of 15.5 has been
applied) = 0.0190000
Estimated standard deviation of I input data = 5.2680000
Estimated standard deviation of Q input data = 5.2860000
Calibration system gain of first processed line (telemetry value) =
7.0000000
Receiver gain of first processed line (telemetry value) = 19.0000000
Doppler ambiguity number = 0.0000000

```

-----  
Calibration Information.  
-----

```

Bias correction applied to I channel (to be added to the nominal bias) =
0.0400000
Bias correction applied to Q channel (to be added to the nominal bias) =
-0.0190000
I/Q gain imbalance correction (applied to I channel) = 1.0000000
I/Q gain imbalance correction (applied to Q channel) = 0.9960000
I/Q non-orthogonality correction (applied to Q channel) = 0.3100000

```

```

Noise power per sample (Not provided by the VMP) = -9999999.9999999
Calibration pulse time delay (Not provided by the VMP) = -9999999.9999999
Number of valid calibration pulses (0 for the VMP) = 0
Number of valid noise pulses (0 for the VMP) = 0
Number of valid replica pulses = 1
First sample in replica (Chirp extraction index) = 30.0000000
Mean calibration pulse power (Not provided by the VMP) = -9999999.9999999
Mean noise pulse power (Not provided by the VMP) = -9999999.9999999
Range compression normalisation factor = 12055352.0000000
Replica pulse power = 142661.0000000
Incidence angle at first range pixel (at mid-azimuth) = 19.3920000
Incidence angle at centre range pixel (at mid-azimuth) = 23.7630000
Incidence angle at last range pixel (at mid-azimuth) = 27.2830000
Slant range reference (for range spreading loss compensation) =
847.0000000

```

```

Antenna pattern correction flag (0 = no correction) = 0
Absolute calibration constant K ( scalar ) (Not provided for the RAW product)
= -9999999.9999999
Upper bound calibration constant K ( + 0.75 dB) (Not provided for the RAW
product) = -9999999.9999999
Lower bound calibration constant K ( - 0.75 dB) (Not provided for the RAW
product) = -9999999.9999999
Estimated noise equivalent s o (Not provided for the RAW product) =
-9999999.9999999
Estimated noise equivalent s o (Not provided for the RAW product) =
K version number as XXYY, where XX refers to a K update implemented
across the ground segment and YY refers to an upgrade only at the source
facility
(as may arise in case of local software updates)
(Not provided for the RAW product) =
-----

```

Various Parameters (from SPH fields).

```

-----
Number of duplicated input lines (Not provided by the VMP) = -999
Estimated bit error rate (Not provided by the VMP) = -9999999.9999999

Output image mean (Not provided for the RAW product) = -9999999.9999999
Output image standard deviation (Not provided for the RAW product) =
-9999999.9999999
Output image maximum value (Not provided for the RAW product) =
-9999999.9999999
Time of raw data first input range line (UTC) <dd-MMM-yyyy hh:mm:ss.ttt> =
2-MAY-1996 16:32: 1.595
Time of ascending node state vector (UTC) =
Ascending node state vectors X = 0.0000000000000000e+00
Ascending node state vectors Y = 0.0000000000000000e+00
Ascending node state vectors Z = 0.0000000000000000e+00
Ascending node state vectors X' = 0.0000000000000000e+00
Ascending node state vectors Y' = 0.0000000000000000e+00
Ascending node state vectors Z' = 0.0000000000000000e+00
Output pixel bit length = 0016
Processor gain #1 = 0.0000000
Processor gain #2 = 0.0000000
Processor gain #3 = 0.0000000
Peak location of Cross Correlation Function (CCF) between first extracted
chirp
and nominal chirp[for Bangkok processor, CCF between best extracted chirp
and nominal chirp] = 0030
3-dB width of Cross Correlation Function (CCF) between last extracted chirp
and nominal chirp = 1.1350000
First side lobe level of chirp CCF between last extracted chirp and nominal
chirp = -9.5440000
ISLR of chirp CCF between last extracted chirp and nominal chirp =
-6.7470000
Peak location of Cross Correlation Function (CCF) between last extracted chirp
and nominal chirp = 0030
Roll tilt mode flag (0 = not in roll tilt mode) = 0000
Raw data correction flag (0 = correction with defaults parameters) = 0001
Look detection flag (1 = power detected and summed) (Not provided) = -999
Doppler ambiguity estimation flag (0 = no estimation done) (Not provided) =
-999
Azimuth baseband conversion flag (0 = no conversion done) (Not provided) =
-999
Samples per line used for the raw data analysis = 1000
Range lines skip factor for raw data analysis = 0010
Time of input state vector (UTC) used to processed the image = 02-MAY-1996
16:32:00.000
<dd-MMM-yyyy hh:mm:ss.ttt>
Input state vector - Position vector X = 6.4707524000000000e+05
Input state vector - Position vector Y = -5.4564840600000000e+06
Input state vector - Position vector Z = 4.5884306100000000e+06
Input state vector - Position vector X' = -1.2791122800000000e+03
Input state vector - Position vector Y' = -4.8850652300000000e+03
Input state vector - Position vector Z' = -5.6140510400000000e+03
Input state vector type flag = 0001
(0= scending node state vectors,i.e predicted orbit,1=preliminary or precise)
Window coefficient for range-matched filter = 0.0000000
Window coefficient for azimuth-matched filter = 0.0000000
Update period of range-matched filter = 0000
Look scalar gains (up to 8 looks) = 0.0000000
Look scalar gains (up to 8 looks) = 0.0000000
Look scalar gains (up to 8 looks) = 0.0000000
Look scalar gains (up to 8 looks) = 0.0000000

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Look scalar gains (up to 8 looks) = 0.0000000
Look scalar gains (up to 8 looks) = 0.0000000
Look scalar gains (up to 8 looks) = 0.0000000
Look scalar gains (up to 8 looks) = 0.0000000
Sampling window start time bias = 6265
Doppler centroid cubic coefficient = 0.0000000000000000e+00
PRF code of first range line (telemetry value) = 2820
PRF code of last range line (telemetry value) = 2820
Sampl. wind. start time code of first range line (telemetry value) = 0922
Sampl. wind. start time code of last range line (telemetry value) = 0922
Calibration system gain of last processed line (telemetry value) = 0007
Receiver gain of last processed line (telemetry value) = 0019
First processed range sample = 0001
Azimuth FFT/IFFT ratio ( Not relevant for the RAW product) = -999
Number of azimuth blocks processed ( 0000 for the RAW product) = 0000
Number of input raw data lines (variable) = 00028000
Initial Doppler ambiguity number = 0000
Chirp quality thresholds
- Pulse width of the chirp CCF = 1.5000000
- First sidelobe of the chirp CCF = -8.5000000
- ISLR of the chirp CCF = -6.0000000
Input data statistic thresholds
- Mean of input I data in fraction of maximum absolute of input data =
0.1000000
- Mean of input Q data in fraction of maximum absolute of input data =
0.1000000
- Standard deviation of input I data in fraction of maximum absolute of input
data = 0.2000000
- Standard deviation of input Q data in fraction of maximum absolute of input
data = 0.2000000
Doppler ambiguity confidence thresholds = 0.0000000
Doppler ambiguity confidence thresholds = 0.0000000
Output data statistic thresholds
- Mean of output data = 0.0000000
- Standard deviation of output data = 0.0000000
Satellite binary time of first range line (telemetry value) (Not provided by
the VMP) = -9999999.9999999
Number of valid pixels per range line (the remaining pixels are zero padded) =
5616
Number of range samples discarded during processing interpolations = 0000
I/ gain imbalance - Lower bound = 0.9980000
I/ gain imbalance - Upper bound = 1.0010000
I/Q quadrature departure - Lower bound = -1.6030000
I/Q quadrature departure - Upper bound = 2.2240000
3-dB look bandwidth ( Not relevant for the RAW product) = -9999999.9999999
3-dB processed Doppler bandwidth ( Not relevant for the RAW product) =
-9999999.9999999
Range sprading loss compensation flag (0 = no compensation) = 0000
Datation flag (1 = azimuth timing improved based on timing information of
range line specified in field 136) = 1
Maximum error of range line timing = 0334613
Format number of range line used to synchronize the azimuth timing = 0256403
Automatic ook scalar gain flag (1= automatically calculated) = 0
Maximum value of look scalar gain before the look scalar gains are normalised
(Not provided) = -999
Replica normalisation method flag = 0000
(0 = normalised by replica power, i.e. Z' = Z . c/Ar where Ar is the replica
power and c is specified in field 54,
1 = normalised by the square root of replica power, i.e. Z' = Z / Ar )
4 coefficients of the ground range to slant range conversion polynomial (Not
provided) = 1.4693679385e-39
4 coefficients of the ground range to slant range conversion polynomial (Not

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provided) = 1.4693679385e-39  
4 coefficients of the ground range to slant range conversion polynomial (Not provided) = 1.4693679385e-39  
4 coefficients of the ground range to slant range conversion polynomial (Not provided) = 1.4693679385e-39  
5 coefficients of the antenna elevation pattern polynomial (Not provided) = -9999.9999999999E-99  
5 coefficients of the antenna elevation pattern polynomial (Not provided) = -9999.9999999999E-99  
5 coefficients of the antenna elevation pattern polynomial (Not provided) = -9999.9999999999E-99  
5 coefficients of the antenna elevation pattern polynomial (Not provided) = -9999.9999999999E-99  
5 coefficients of the antenna elevation pattern polynomial (Not provided) = -9999.9999999999E-99  
Range time of origin of antenna pattern polynomial (Not provided) = -9999999.9999999

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Table 9. Raw Facility Related Data Record PCS Type.

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Record sequence number = 5  
1-st record sub-type code = 10  
Record-type code = 200  
2 nd record sub-type code = 31  
3 rd record sub-type code = 50  
Length of this record = 12288  
Name of this facility related data record = FACILITY RELATED DATA RECORD [ESA PCS QUALITY TYPE]