

USE00A - Exploitation Usability Support Data Extension

The Exploitation Usability extension is intended to allow a user program to determine if the image is usable for the exploitation problem currently being performed. It also contains some catalogue metadata. The format and descriptions for the user-defined fields of the USE00A are detailed in Table 1.

TABLE 1 USE00A - EXPLOITATION USABILITY EXTENSION FORMAT

R = REQUIRED, C = CONDITIONAL, < > = NULL DATA ALLOWED.

FIELD	NAME	SIZE	VALUE RANGE	UNITS	TYPE
CETAG	Unique Extension Identifier	6	USE00A	N/A	R
CEL	Length Data Fields	5	00107	bytes	R
<i>The following fields define USE00A</i>					
ANGLE_TO_NORTH	<u>Angle to North.</u> Angle to true north measured clockwise from first row of the image.	3	000 to 359	degrees	R
MEAN_GSD	<u>Mean Ground Sample Distance.</u> The geometric mean of the cross and along scan center-to-center distance between contiguous ground samples. Accuracy = $\pm 10\%$ Note: Systems requiring an extended range shall insert a default value of "000.0" for this field and utilize the PIAMC tag.	5	000.0 to 999.9	inches	R
	reserved	1	spaces		<R>
DYNAMIC_RANGE	<u>Dynamic Range.</u> Dynamic range of pixels in image.	5	00000 to 99999		<R>
	reserved	3	spaces		<R>
	reserved	1	spaces		<R>
	reserved	3	spaces		<R>
OBL_ANG	Obliquity Angle	5	00.00 to 90.00	degrees	<R>
ROLL_ANG	Roll Angle	6	± 90.00	degrees	<R>
	reserved	12	spaces		<R>
	reserved	15	spaces		<R>
	reserved	4	spaces		<R>
	reserved	1	space		<R>
	reserved	3	spaces		<R>
	reserved	1	spaces		<R>
	reserved	1	space		<R>
N_REF	<u>Number of Reference Lines.</u> Number of reference lines in the image. For each reference line, there will be a REFLNA	2	00 to 99		R

R = REQUIRED , C = CONDITIONAL , <> = NULL DATA ALLOWED .

FIELD	NAME	SIZE	VALUE RANGE	UNITS	TYPE
	extension in the NITF file.				
REV_NUM	<u>Revolution Number</u> . The revolution number in effect at the northernmost point of orbit.	5	00001 to 99999		R
N_SEG	Number of Segments	3	001 to 999		R
MAX_LP_SEG	<u>Maximum Lines Per Segment</u> . Maximum number of lines per segment, including overlap lines. The maximum number of lines per segment depends upon the aggregation mode of the collector.	6	000001 to 999999		<R>
	reserved	6	spaces		R
	reserved	6	spaces		R
SUN_EL	<u>Sun Elevation</u> . In degrees measured from the target plane at intersection of the optical line of sight with the earth's surface at the time of the first image line. Default value, if data is not available, is 999.9.	5	-90.0 to +90.0, or 999.9	degrees	R
SUN_AZ	<u>Sun Azimuth</u> . In degrees measured from true North clockwise (as viewed from space) at the time of the first image line. Default value, if data is not available, is 999.9.	5	000.0 to 359.0, or 999.9	degrees	R