

























Signed vs. Unsigned					
Number Type Name	No. of Bits	Minimum Possible Value	Maximum Possible Value	Other Names, Abbreviations & Symbols in Use	
Unsigned Byte	8	0	255	Byte	
Signed Short Integer	16	-32,768	32,767	Short, I2, Integer*2	
Signed Long Integer	32	-2,147,483,648	2,147,483,647	Long, I4, Integer*4	
Single Precision Floating Point (SAR image)	32	-3.403*10 ³⁸	3.403*10 ³⁸	Single, R4, Real*4	













Data format
Describes the way that data is written to storage
Usually contain:
 Metadata (description about the data: projection, scan lines, pixels per line)
Text Metadata Collector
Topic Aerial Photography Reload Quit GridMap Save Transfer
Category Last Update
Subject Logo
Description Location Citation Contacts Platforms Keywords Publications
Abstract General Info Aerial Info Photo Info Status File Info Access/Secure
Image Scale 24000 Film Emulsion Type 4 = Black and white 1 Focal Length of Camera 1 Image Type Pan chromatic 1 Film Format 1 Cloud Coverage 1 1 1 Sensor Class 1 Quad Coverage 1<



File compression	
Lossy vs. Lossless	
Lossless: preserve all data	
- file size may not be compressed that much	
Lossy: loses some information in compression (JPEG) -smaller file sizes, easy sharing -cannot obtain original data	
888883333	
Lossless: 8[6]3[4]	
Lossy: 83	







