

Processing Steps for AIA Image Data

	A	B	C	D	E	F
1	Level	Step	Process	Notes	Specification Provider	JSOC Programmer
2	0.50	0	Import	Starting point		
3	*	1	DC Offset & gain adjustments	Coordinate with Stanford/HMI	Boerner	
4	*	2	Dark current & read noise		Boerner	
5	*	3	Integer pixel shift	shifts must be in header	Boerner	
6	*	4	Create Bad pixel & cosmic ray maps	These should be archived	Boerner	
7	1.00		Archive level	Keep online as budgets permit		
8	*	5	Bad Pixel replacement			
9	*	6	Detector Flat fielding	How do we insert updates in time?		
10	*	7	Vignette correction			
11	*	8	Plate scale, rotation & sub-pixel shifts	Single step? Center of shifts TBD: either bore sight or sun center		
12	*	9	Exposure correction	in units of DN/sec. Include keyword to map to photons/sec		
13	1.50		Distribution Level	Standard Product		
14	?	10	Mesh Deconvolution?	Can this be done? How?		
15						
16	1.7?		Lossy Compression	Should be at most 1.5MB/minute/wave -- Temperature maps?		
17						
18	1.9?		Resampled using Events	Cutouts of Lev1.5, with appropriate cadence and resolution		
19						
20						
21						
22				More notes:		
23				Plate scales should have some consistency with HMI		
24				How are series actually stored on in JSOC?		