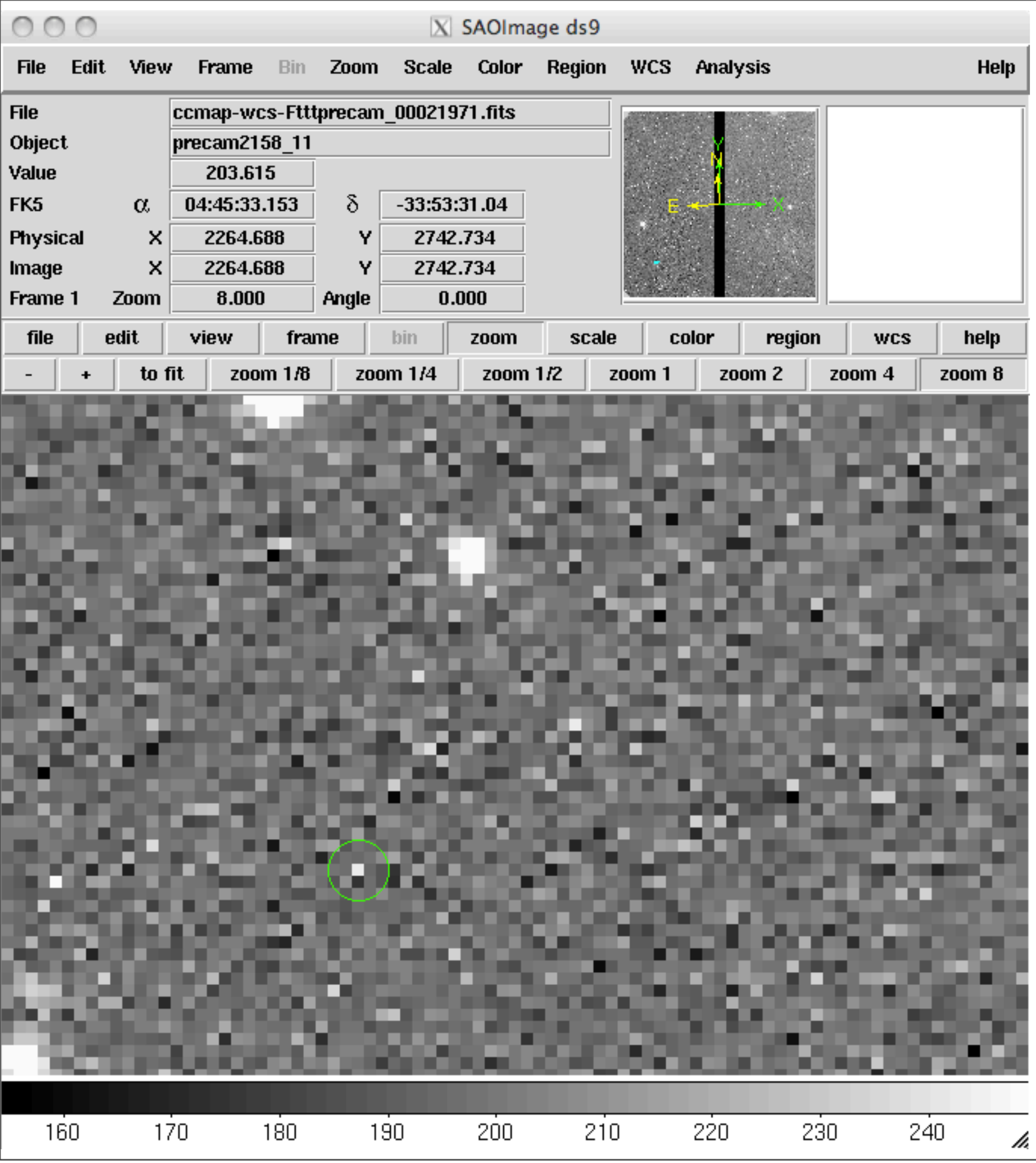
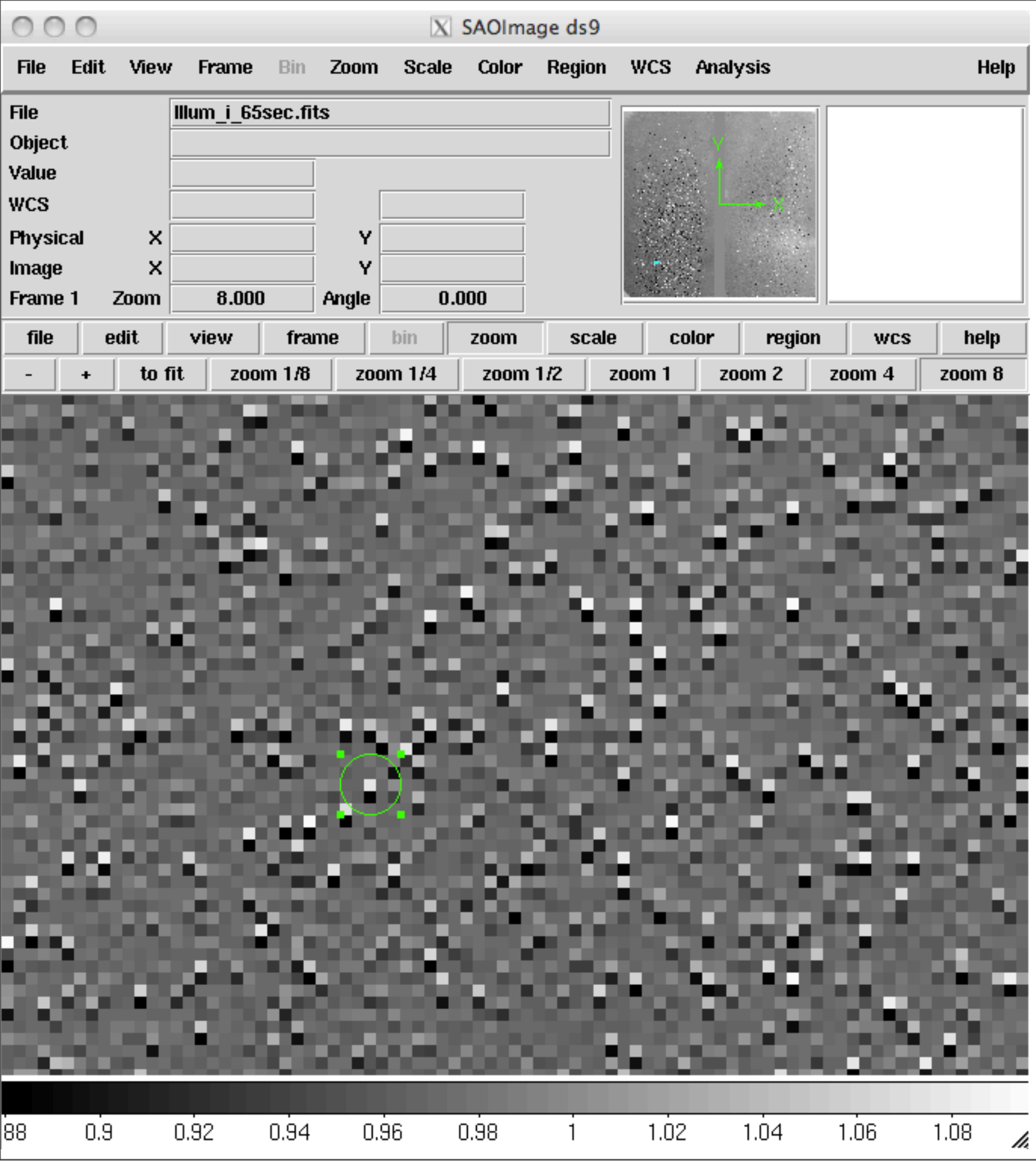
Dipoles:

Before, During, and After Illumination Correction

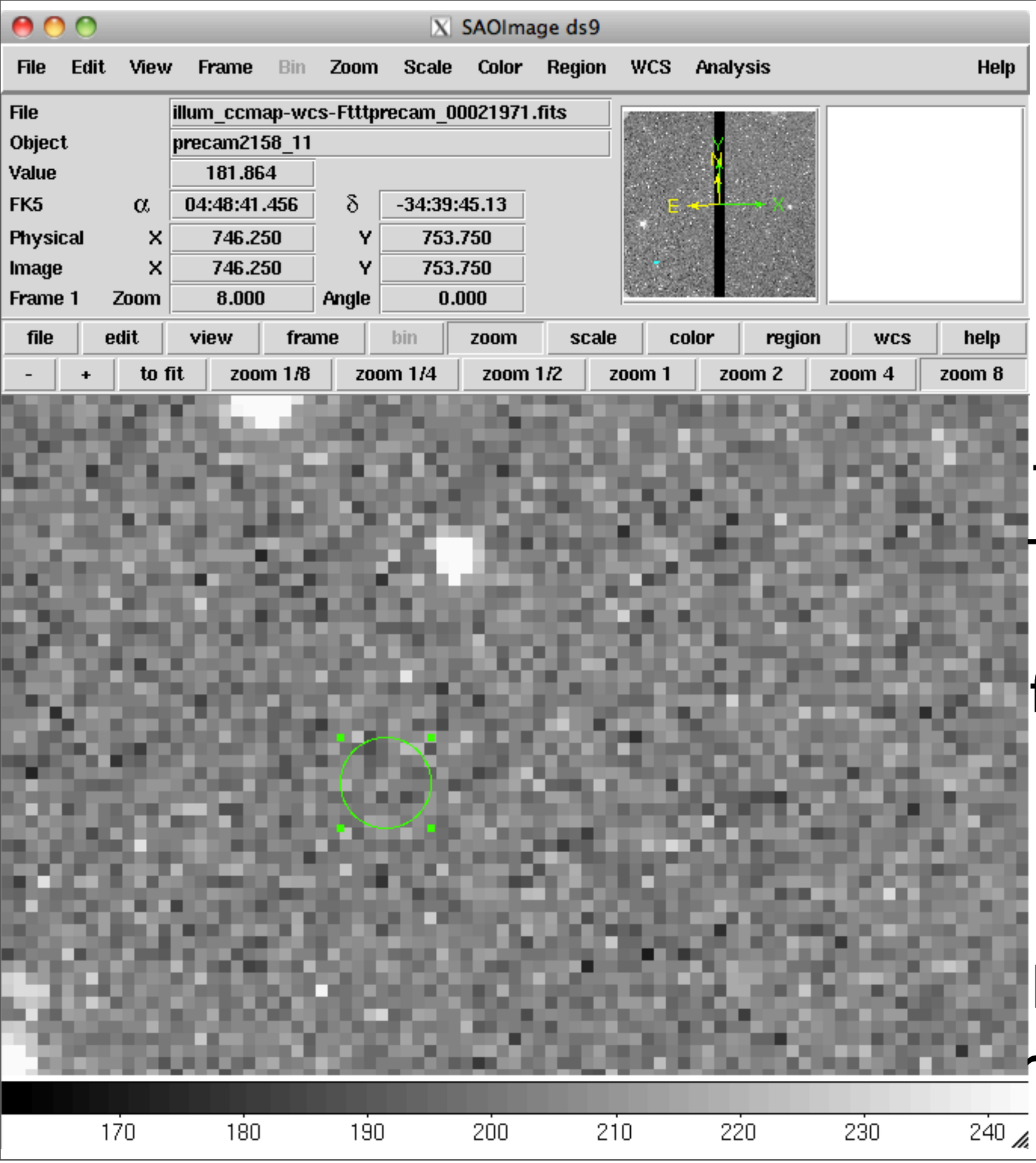
with 20110113, i band, v2 data
with dipoles in background and on stars



ccmap-*.fits
Highlighted Dipole
at x,y = 756, 740:
Top = 242.3
Bottom = 174.3
+/- 34 from mean
+/- 16% from mean



Illumination Map
same x,y
Top = 1.079
Bottom = 0.838



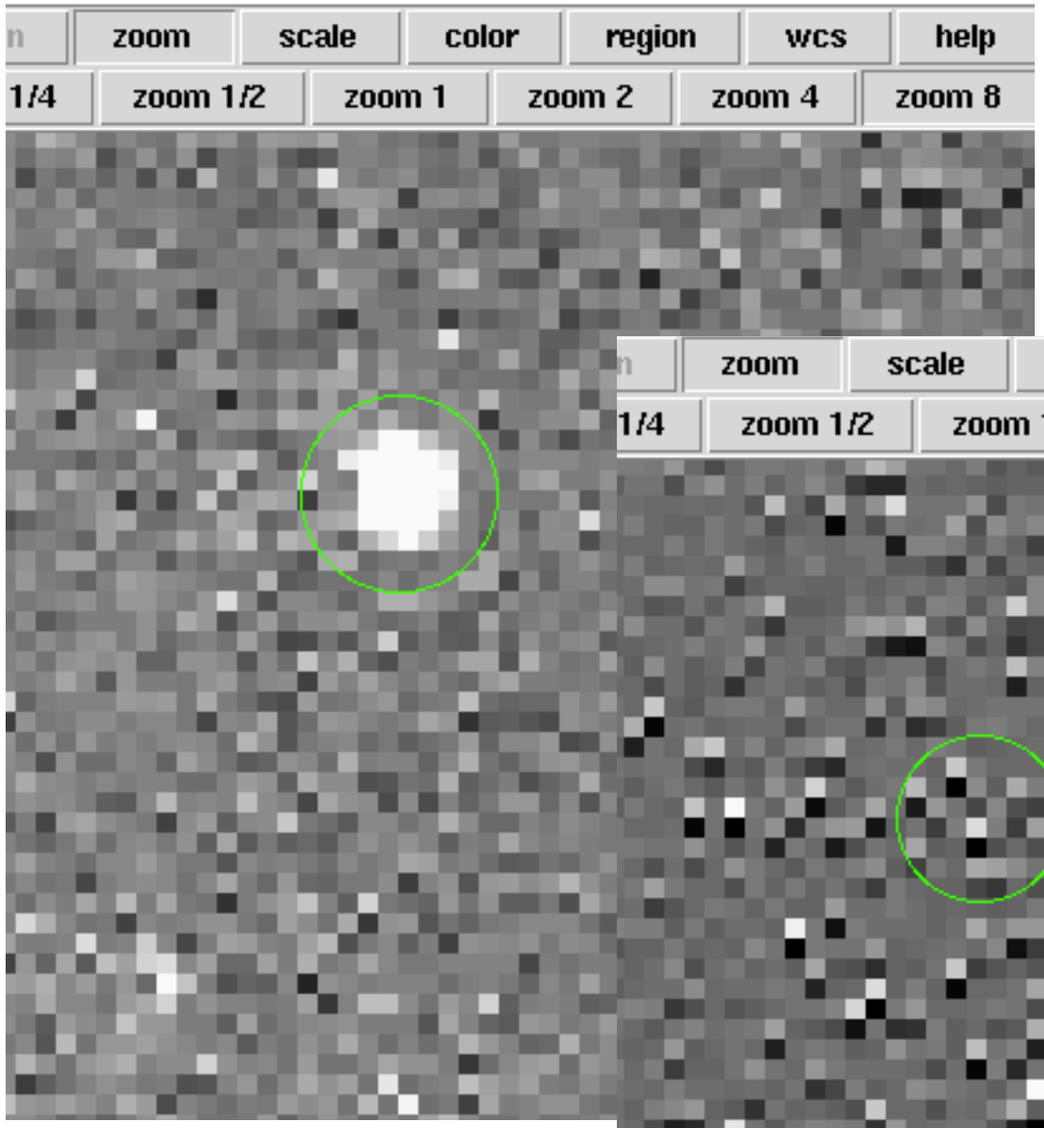
illum_ccmap-*.fits
same x,y
Top = 214.4
Bottom = 188.9

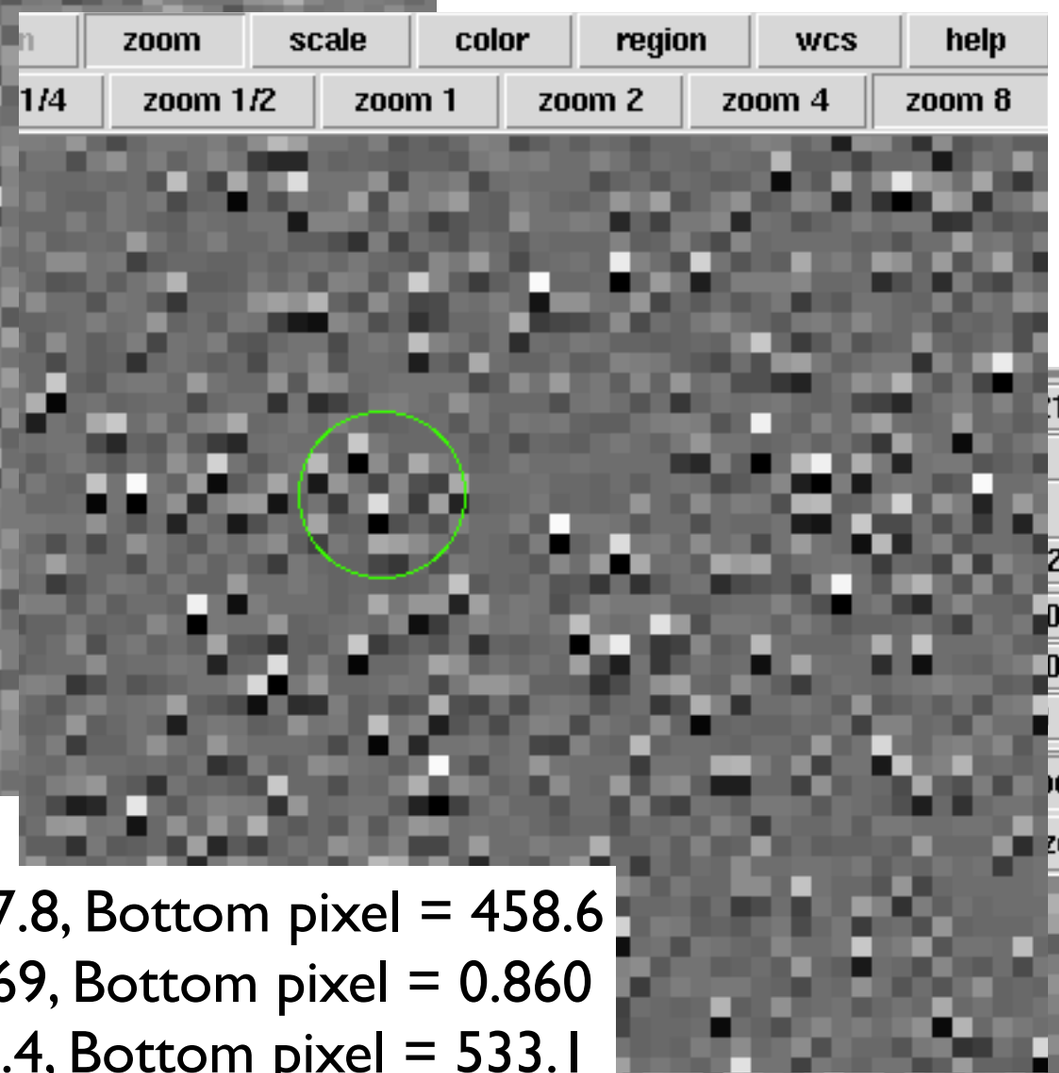
+/- 12.8 from mean
+/- 6.3% from mean

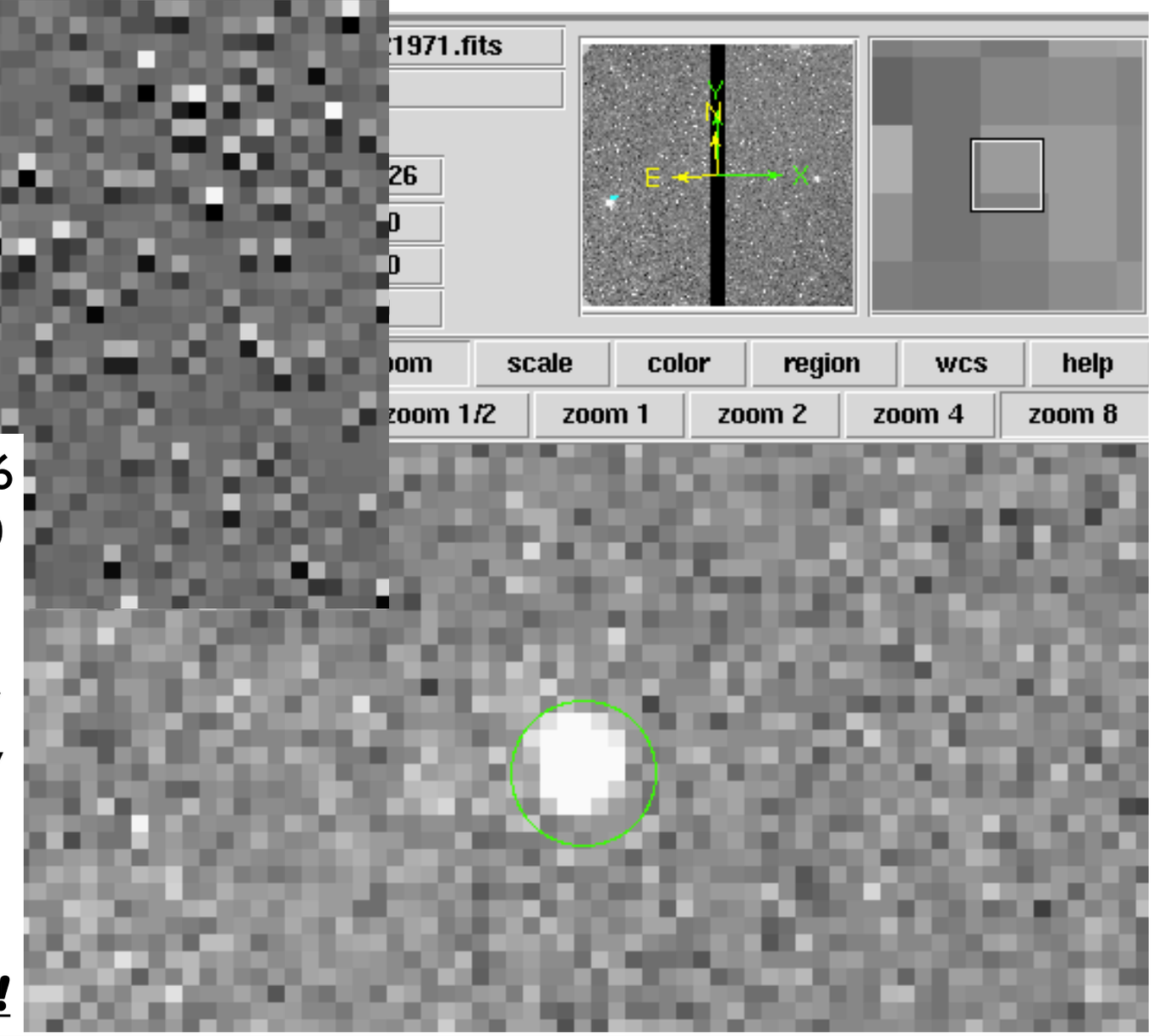
from original mean:
+6/-20
+2.9%/-9.6%

Dipoles reduced to ~background levels!

Dipoles at x,y = (542,1689) and (543, 1686) -- above and below star center, so they have opposite effects on profile







Before: Top pixel = 1327.8, Bottom pixel = 458.6
During: Top pixel = 1.069, Bottom pixel = 0.860
After: Top pixel = 1242.4, Bottom pixel = 533.1
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Before: Top pixel = 281.0, Bottom pixel = 471.7
During: Top pixel = 1.054, Bottom pixel = 0.877
After: Top pixel = 266.7, Bottom pixel = 538.0
Illum correction improves stellar profile, and

<u>IMEXAM shows nearly perfect contours!</u>