

UVIS Titan Book

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1 Tutorial on detector images

This Titan Book presents the Cassini-Ultraviolet Imaging Spectrograph (UVIS) observations of Titan made between 2005 and 2016. Each observation is presented separately on a double page and this pdf document displays best as a two-page view in Adobe Reader. This book is organized in chronological order, starting with the first observation made in 2005, while UVIS was prime, among the other remote-sensing instruments. A set of quasi-simultaneous EUV and FUV observations were usually taken and the EUV observation is being presented first. Each double-page displays an averaged spectrum, a table of some key geometric parameters, four figures representing the geometry and a set of 7 UVIS detector images at specific wavelength. More details on each of these elements are given below.

1.1 The UVIS detector

The UVIS instrument, described in detail by Esposito et al. (2004), is composed of two-dimensional CO-DACON detectors that provide simultaneous spectral and one-dimensional spatial images. The Extreme-UV (EUV) channel covers wavelengths from 56.1 nm to 118.2 nm. The far-UV (FUV) channel covers wavelengths from 111.5 nm to 191.2 nm. The detector format for each channel is 1024 spectral pixels by 64 spatial pixels. Each spectral pixel is 0.25 mrad and each spatial pixel is 1.0 mrad projected on the sky. Using the low-resolution slit in the FUV gives a spectral resolution of 0.48 nm and a spatial FOV of 1.5 mrad in the spectral dimension for example.

1.2 Type of observation and Nomenclature

For clarity, we have limited ourselves to a certain type of Titan observations. Cassini-UVIS has made a total of approximately 5,000 EUV and 5,000 FUV Titan observations. Here we selected only observations with the name "EUVFUV", meaning that UVIS is usually the prime instrument at the time of observation. This type of observation is typically a scan across Titan's disk.

The file's name starts with the channel used (either EUV or FUV), followed by the date of observation in the format YYYY_DOY_HH_MM_SS, followed by the instrument's name UVIS, the revolution number around Saturn and the body targeted (TI for Titan). Then, a code describes the type of observation (EUVFUV) and if the instrument was prime or not. If not prime, the file name ends with the instrument's name that was prime

(See for example observation EUV2013_254_23_21_48_UVIS_197TI_EUVFUV001_ISS).

The Titan UVIS Library, which IDL code is available in GitHub (<https://github.com/Cassini-UVIS>), allows to reproduce the detector images and the geometry of observation for each Titan Cassini-UVIS observation, including the ones not presented in this book.

1.3 UVIS spectra

Each double-page of observation displays an averaged spectrum. It is averaged on all spatial pixels and all samples. The Titan airglow spectra are mainly composed of the LBH band system, atomic nitrogen emissions, reflected sunlight, and the VK band system. Typical other features are the Lyman-alpha at 121.6 nm and solar reflected light long-ward 165 nm. The intensity is given in kR/Å. More information on this is available in the UVIS user's guide.

1.4 Geometry

The four geometry plots represent a fixed time during the observation (a sample, also called a record) and their main interest is to display the UVIS slit across Titan disk in order to better interpret the detector images. The pixel numbers are displayed at the edge of the slit, for orientation purpose. The dark grey color on the disk indicates the night side, while the light grey color indicates the day side.

1.5 UVIS Detector images

The x-axis represents the spatial pixels of the detector, usually 64. The y-axis represents the time, either in samples # or in UTC time. A sample (or record) corresponds to one integration during an observation. On a detector image, samples are stacked over each other in order to form an image. The color gives the brightness of what is in the field of view in R/A. Some images are a true temporal variation of a same geographic zone (Example of T32 in June 13, 2007), while other images shows a spatial variation during a short time frame. Most images are a mixte of spatial and temporal variations at Titan and it can be difficult to disentangle both components in them. Each image is done at a particular wavelength or wavelength range. Wavelengths are chosen as a function of the most prominent airglow spectral features at Titan.

Year 2005

Brief descriptif of observations:

- Day 046: Disk-resolved during most of the observation. Dayglow and nightglow visible.
- Day 090: Dayglow and faint nightglow
- Day 106: Dayglow and faint nightglow
- Day 360: Dayglow, no nighglow

EUV2005_046_08_55_19_UVIS_003TI_EUVFUV001_PRIME

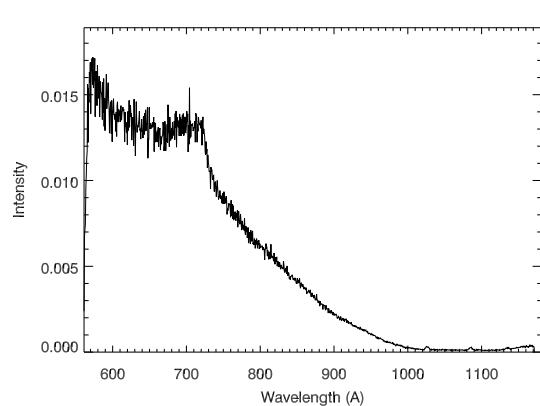


Figure 1: Spectra

body phase angle (deg): 159.4
distance (km): 66165.
Lon sub-s/c (180E): 341.3
Lat sub-s/c: 2.1
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 2: Geometry data

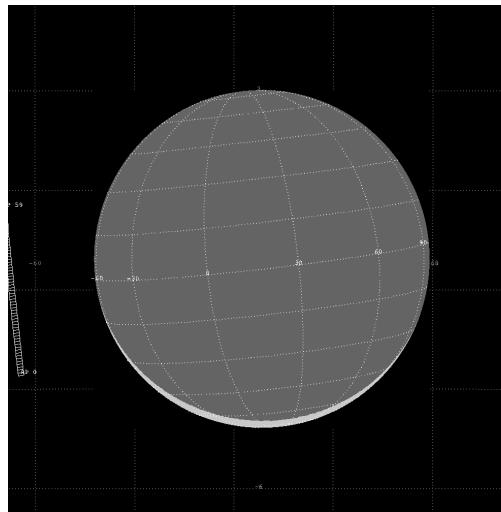


Figure 3: Frame 3

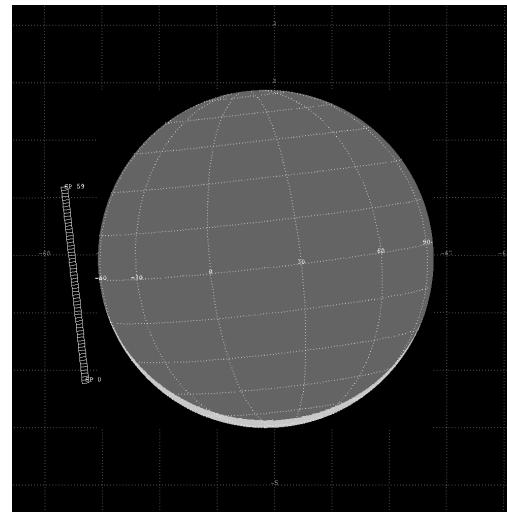


Figure 4: Frame 8

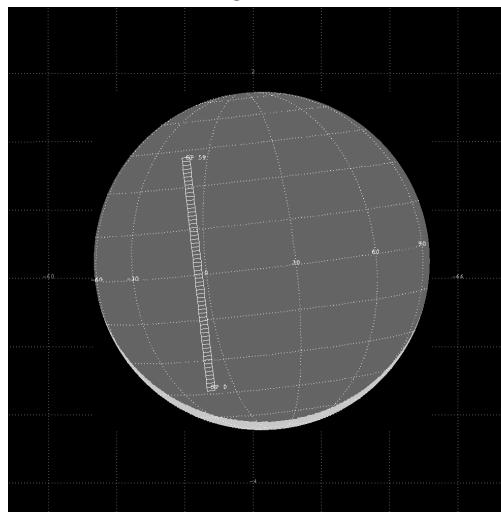


Figure 5: Frame 15

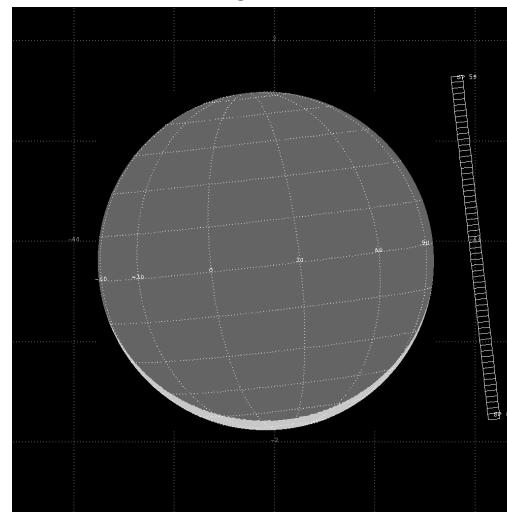


Figure 6: Frame 35

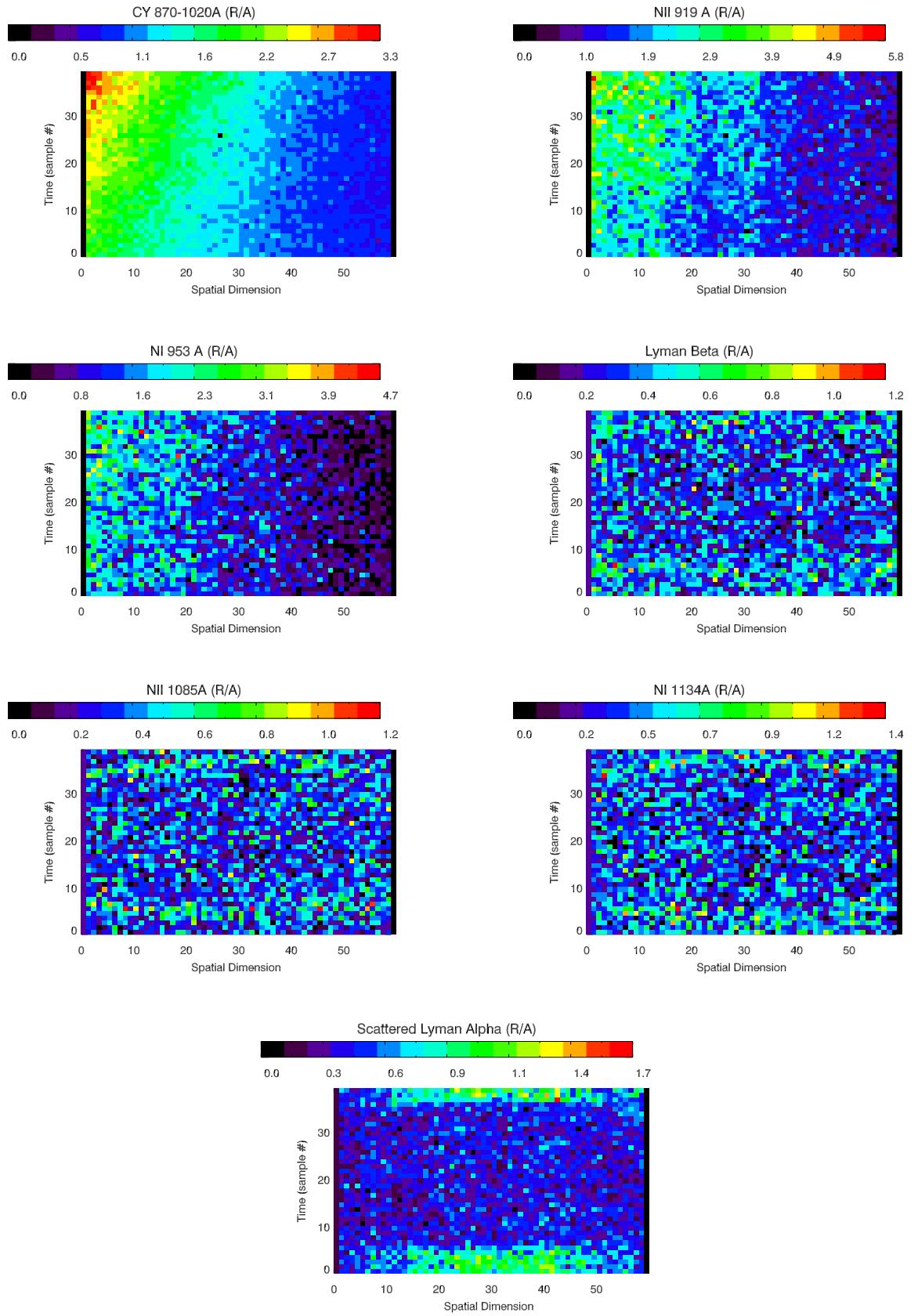


Figure 7: Panel of 7 detector images

FUV2005_046_08_55_19_UVIS_003TI_EUVFUV001_PRIME

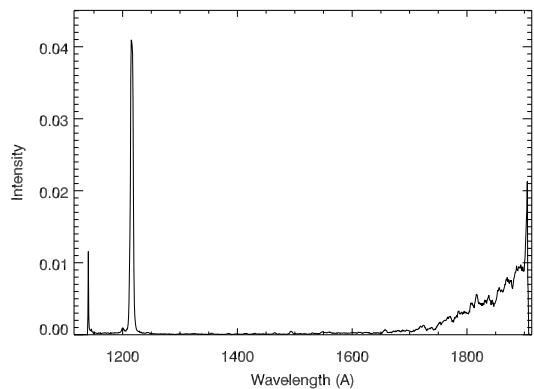


Figure 8: Spectra

body phase angle (deg): 159.4
distance (km): 66165.
Lon sub-s/c (180E): 341.3
Lat sub-s/c: 2.1
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 9: Geometry data

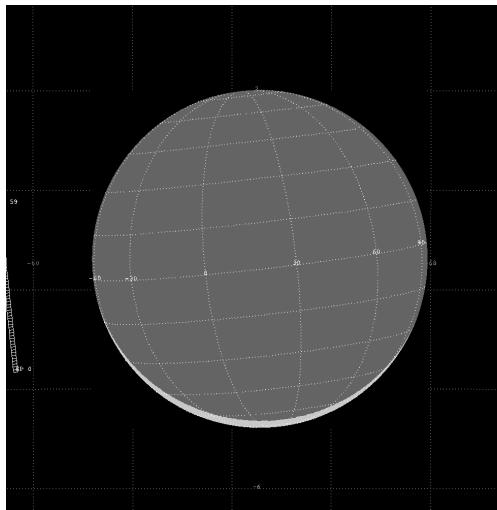


Figure 10: Frame 3

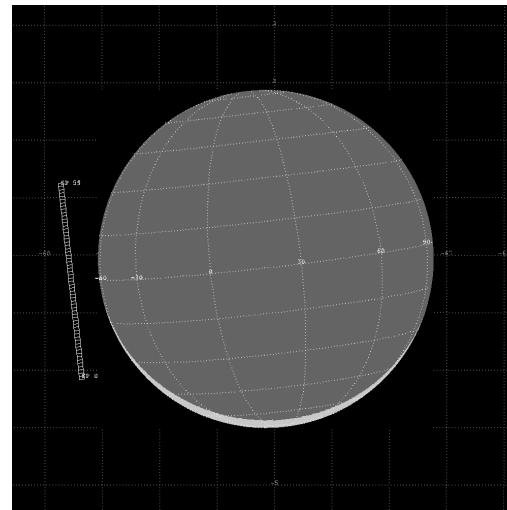


Figure 11: Frame 8

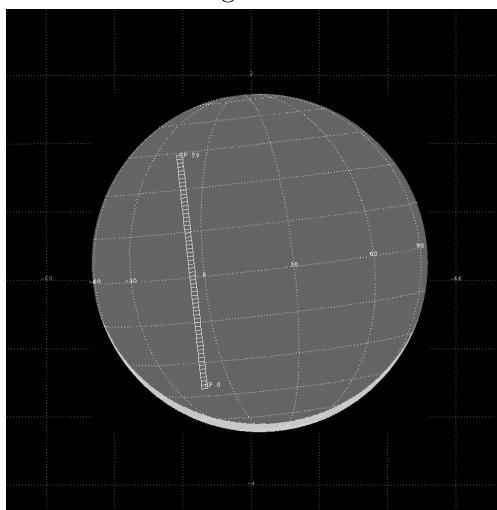


Figure 12: Frame 15

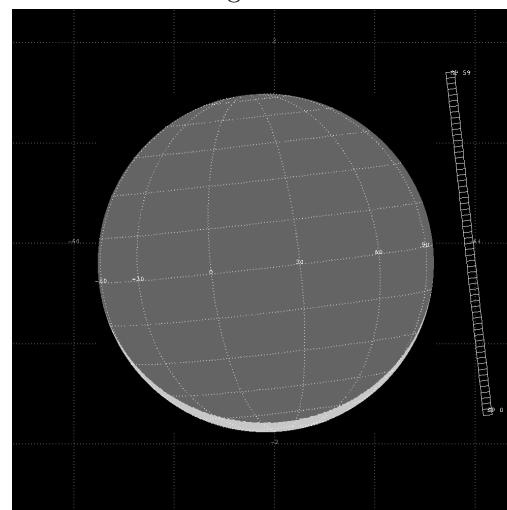


Figure 13: Frame 35

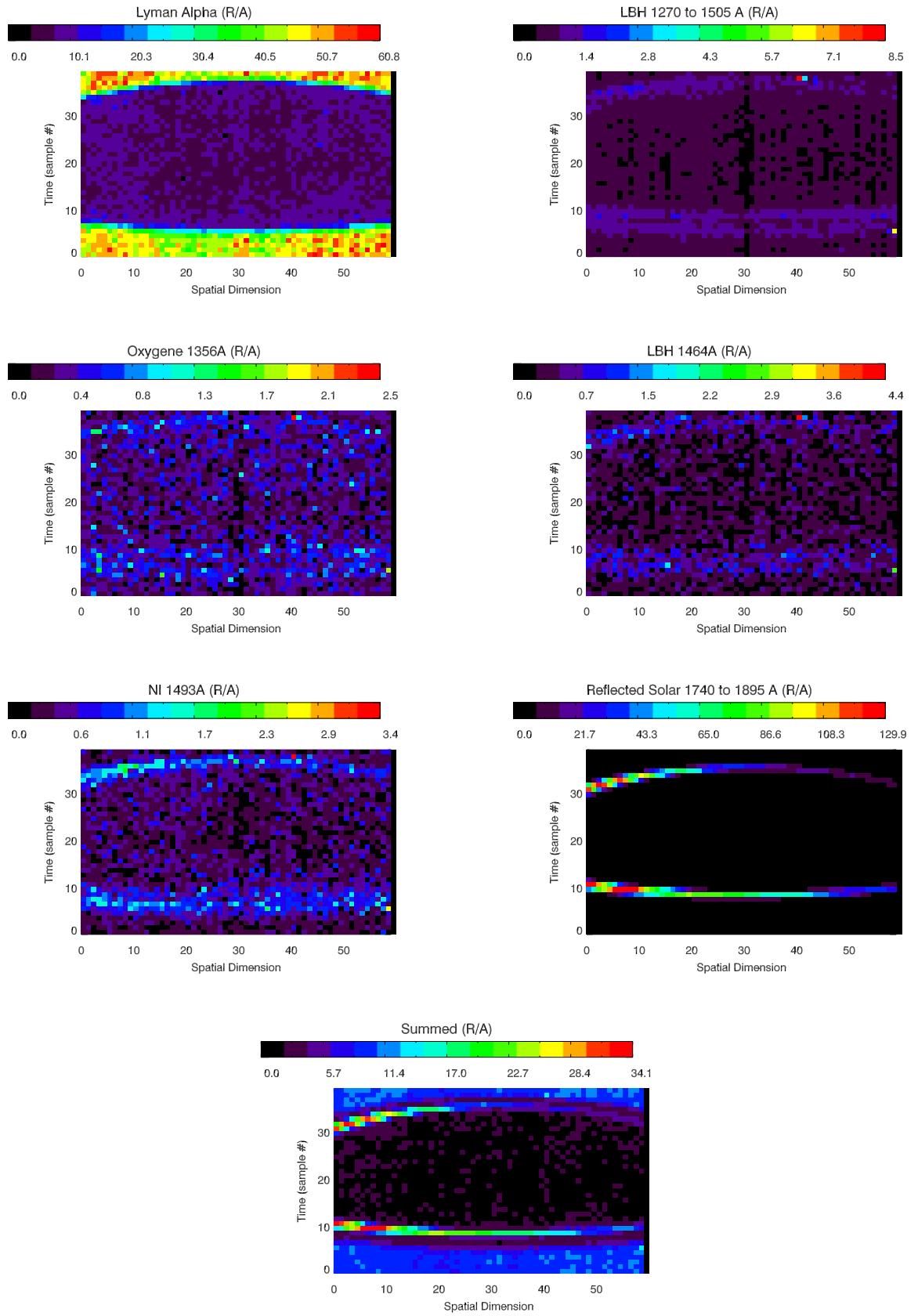


Figure 14: Panel of 7 detector images

EUV2005_090_22_23_55_UVIS_005TI_EUVFUV001_PRIME

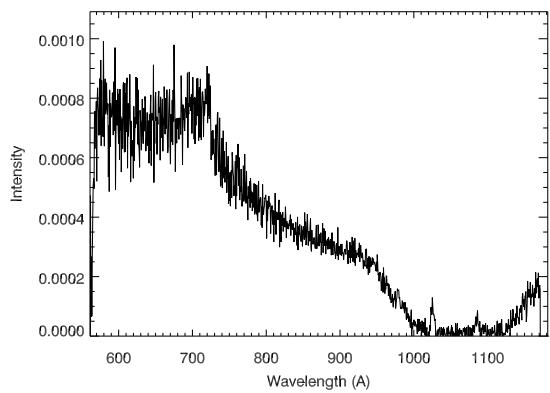


Figure 15: Spectra

body phase angle (deg): 123.1
distance (km): 66449.
Lon sub-s/c (180E): 209.3
Lat sub-s/c: -0.7
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 16: Geometry data

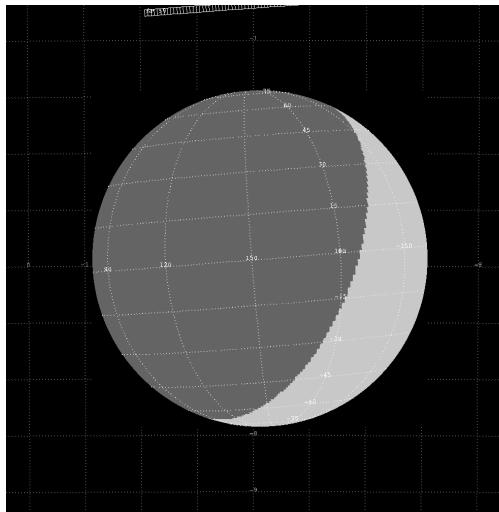


Figure 17: Frame 2

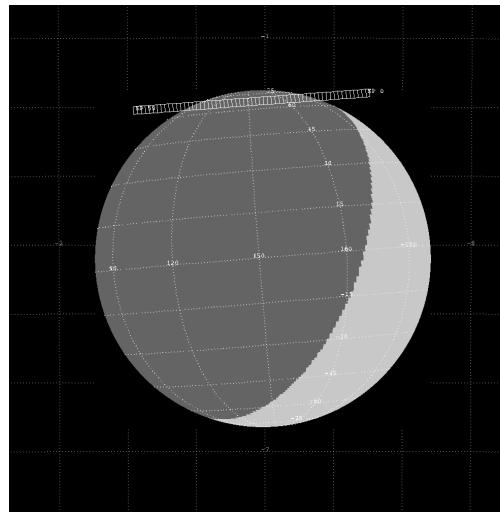


Figure 18: Frame 10

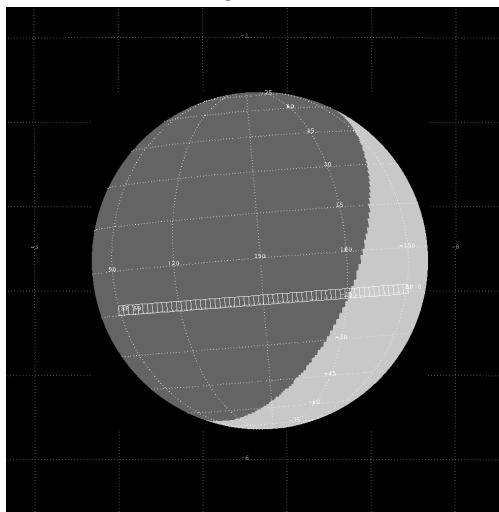


Figure 19: Frame 20

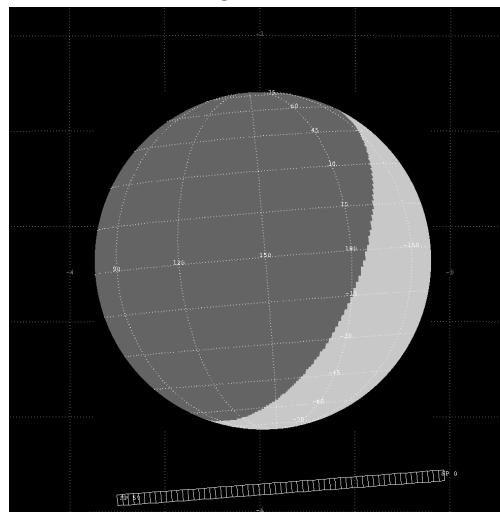


Figure 20: Frame 27

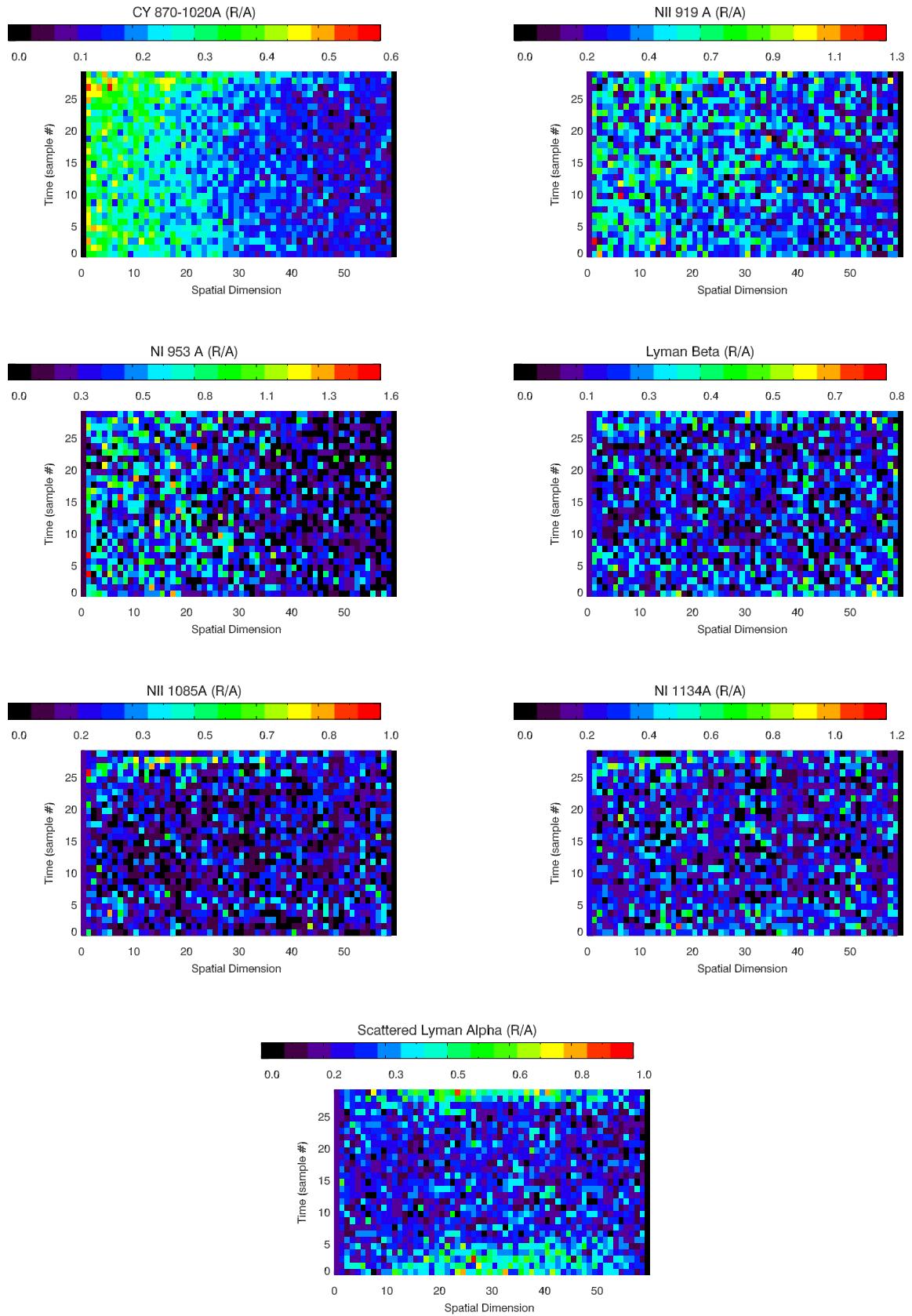


Figure 21: Panel of 7 detector images

FUV2005_090_22_23_55_UVIS_005TI_EUVFUV001_PRIME

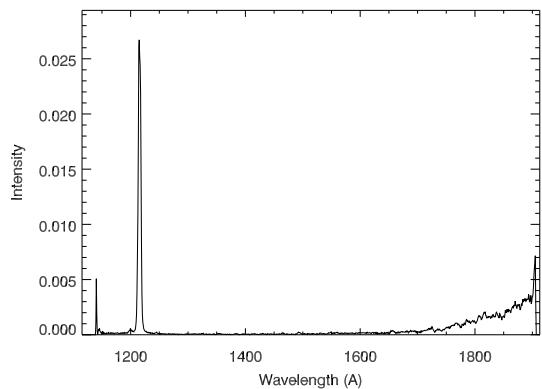


Figure 22: Spectra

body phase angle (deg): 123.1
distance (km): 66449.
Lon sub-s/c (180E): 209.3
Lat sub-s/c: -0.7
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 23: Geometry data

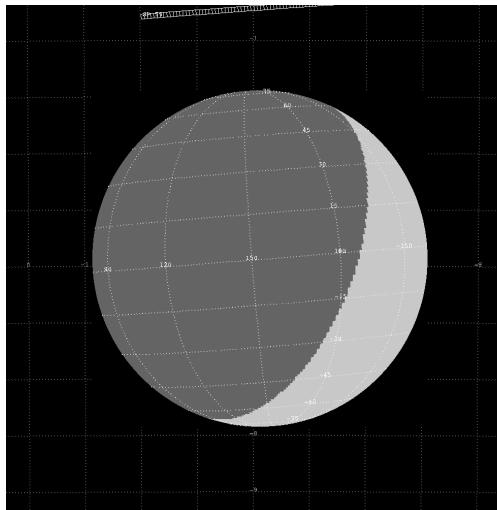


Figure 24: Frame 2

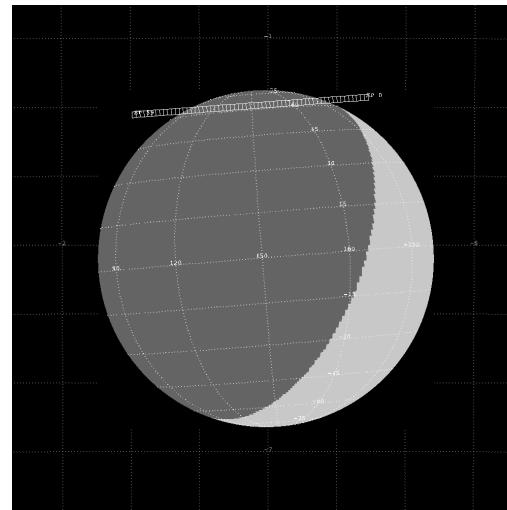


Figure 25: Frame 10

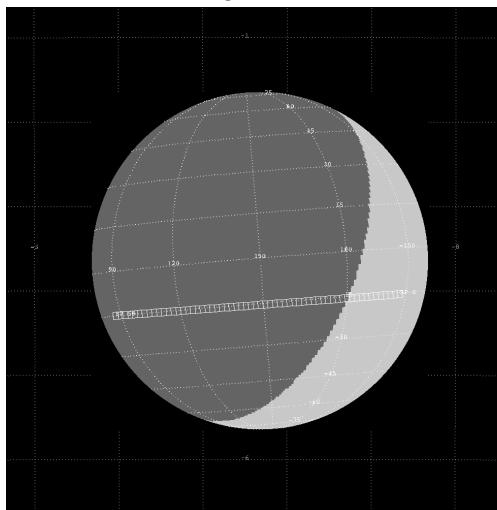


Figure 26: Frame 20

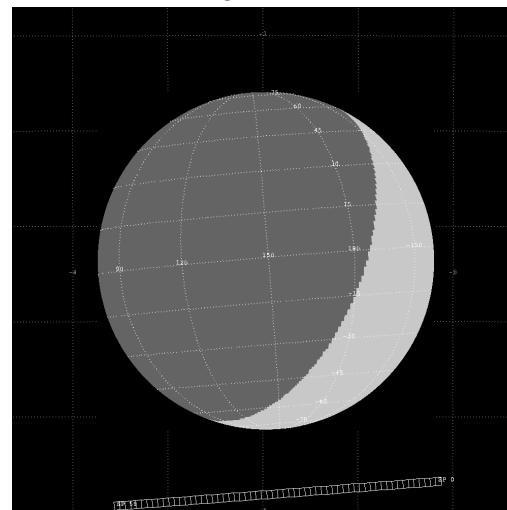


Figure 27: Frame 27

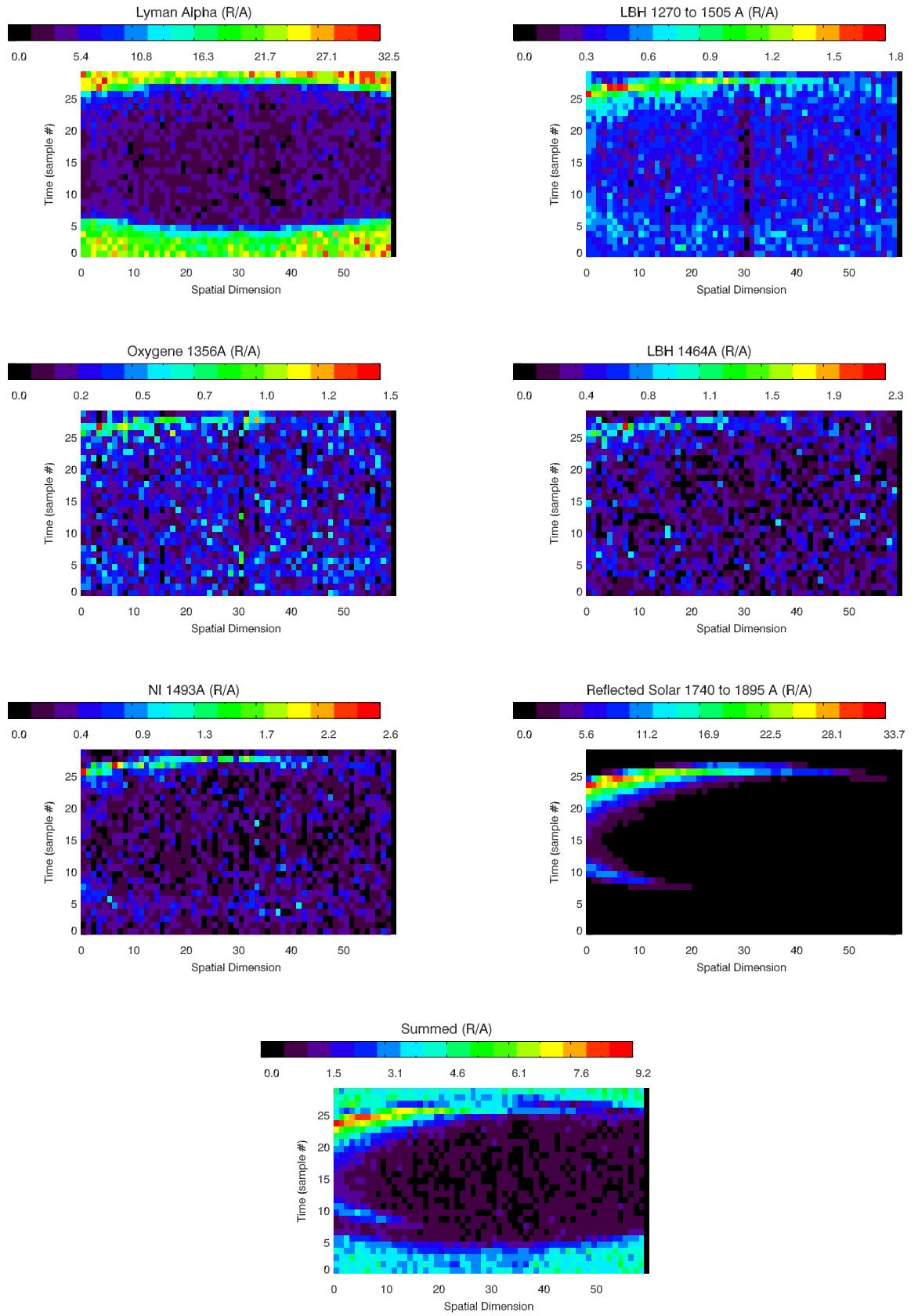


Figure 28: Panel of 7 detector images

EUV2005_106_11_23_11_UVIS_006TI_EUVFUV001_PRIME

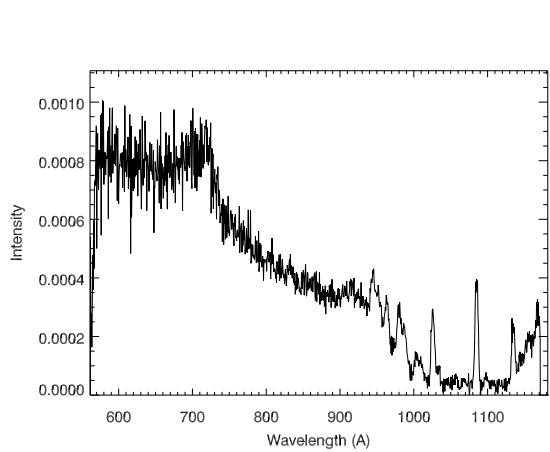


Figure 29: Spectra

body phase angle (deg):	56.1
distance (km):	113523.
Lon sub-s/c (180E):	24.3
Lat sub-s/c:	5.3
xbin:	1
ybin:	1
xmin:	0
xmax:	1023
ymin:	2
ymax:	61
integration (sec):	240

Figure 30: Geometry data

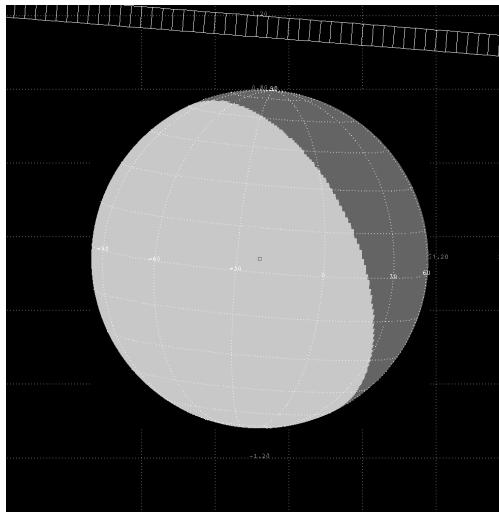


Figure 31: Frame 0

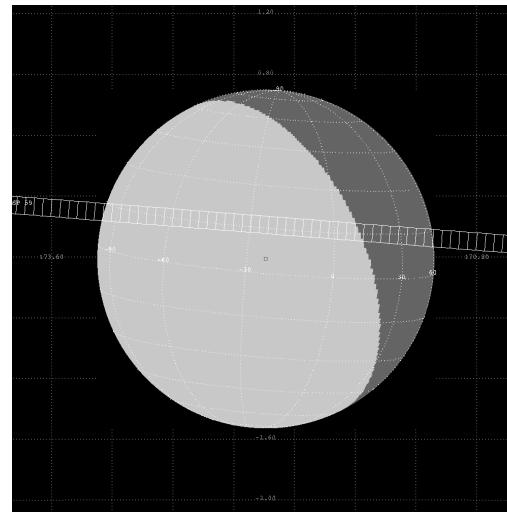


Figure 32: Frame 17

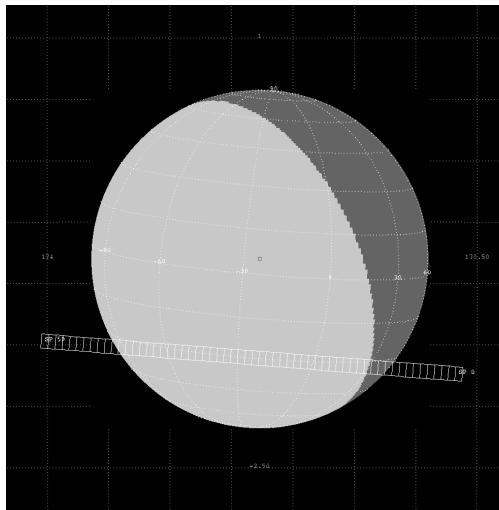


Figure 33: Frame 32

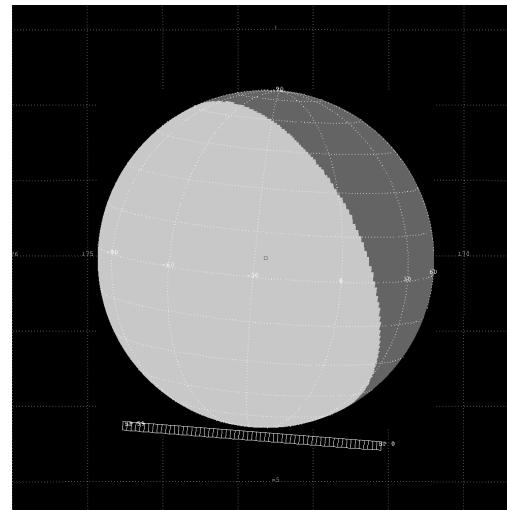


Figure 34: Frame 57

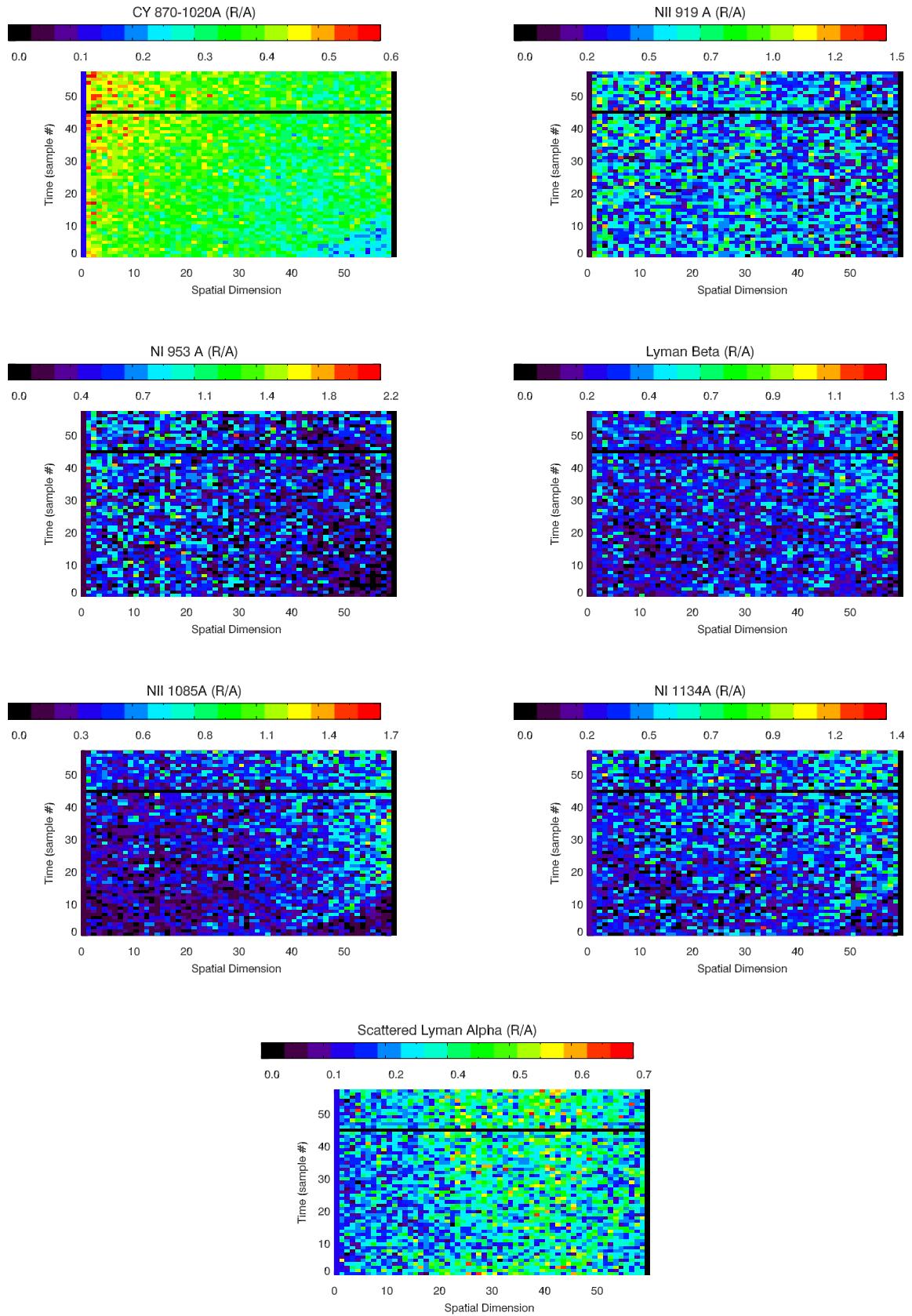


Figure 35: Panel of 7 detector images

FUV2005_106_11_23_11_UVIS_006TI_EUVFUV001_PRIME

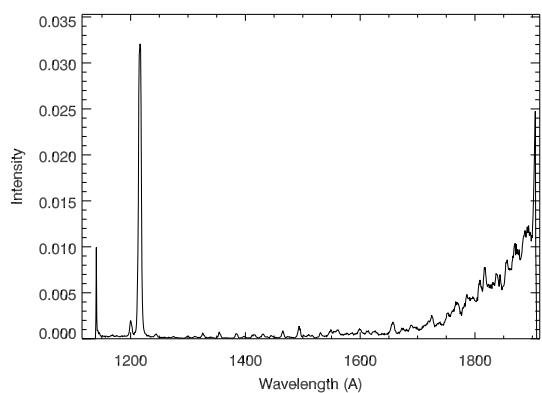


Figure 36: Spectra

body phase angle (deg): 56.1
distance (km): 113523.
Lon sub-s/c (180E): 24.3
Lat sub-s/c: 5.3
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 37: Geometry data

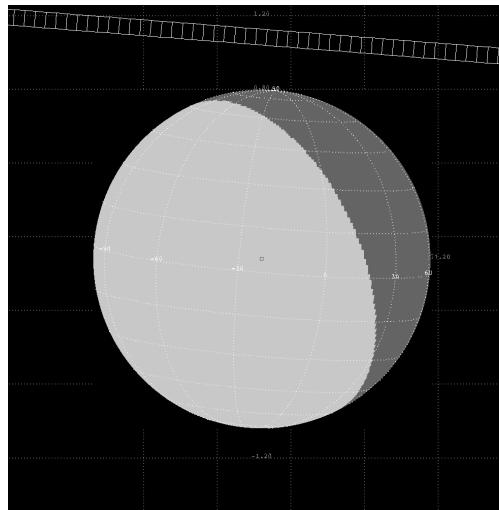


Figure 38: Frame 0

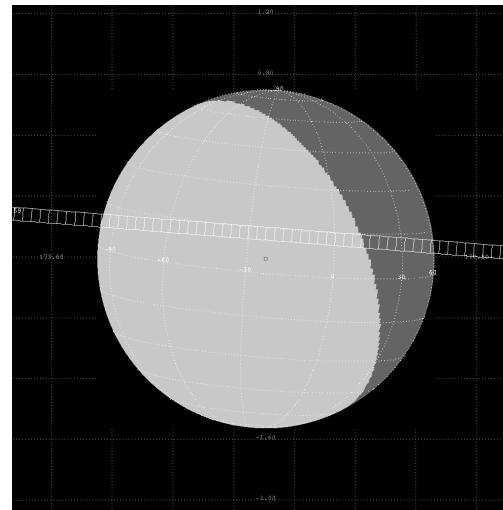


Figure 39: Frame 17

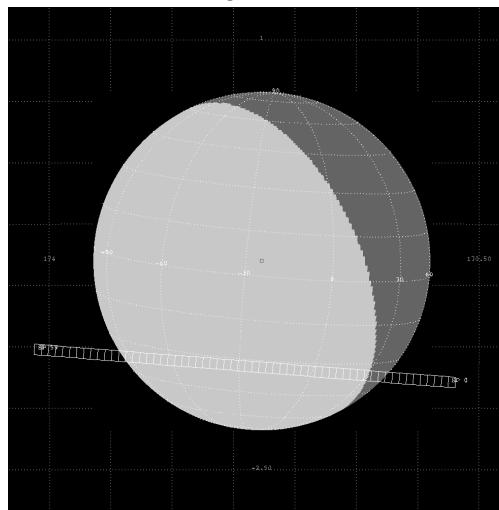


Figure 40: Frame 32

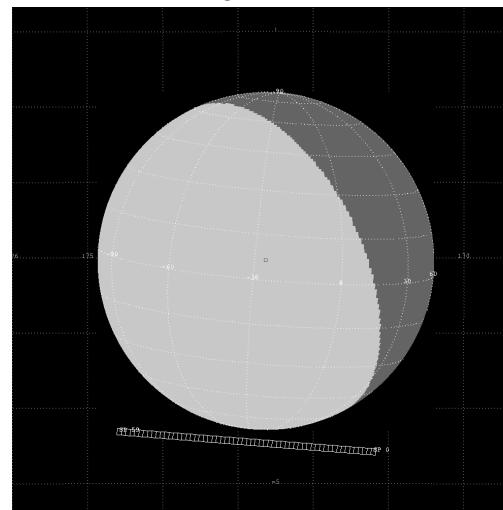


Figure 41: Frame 57

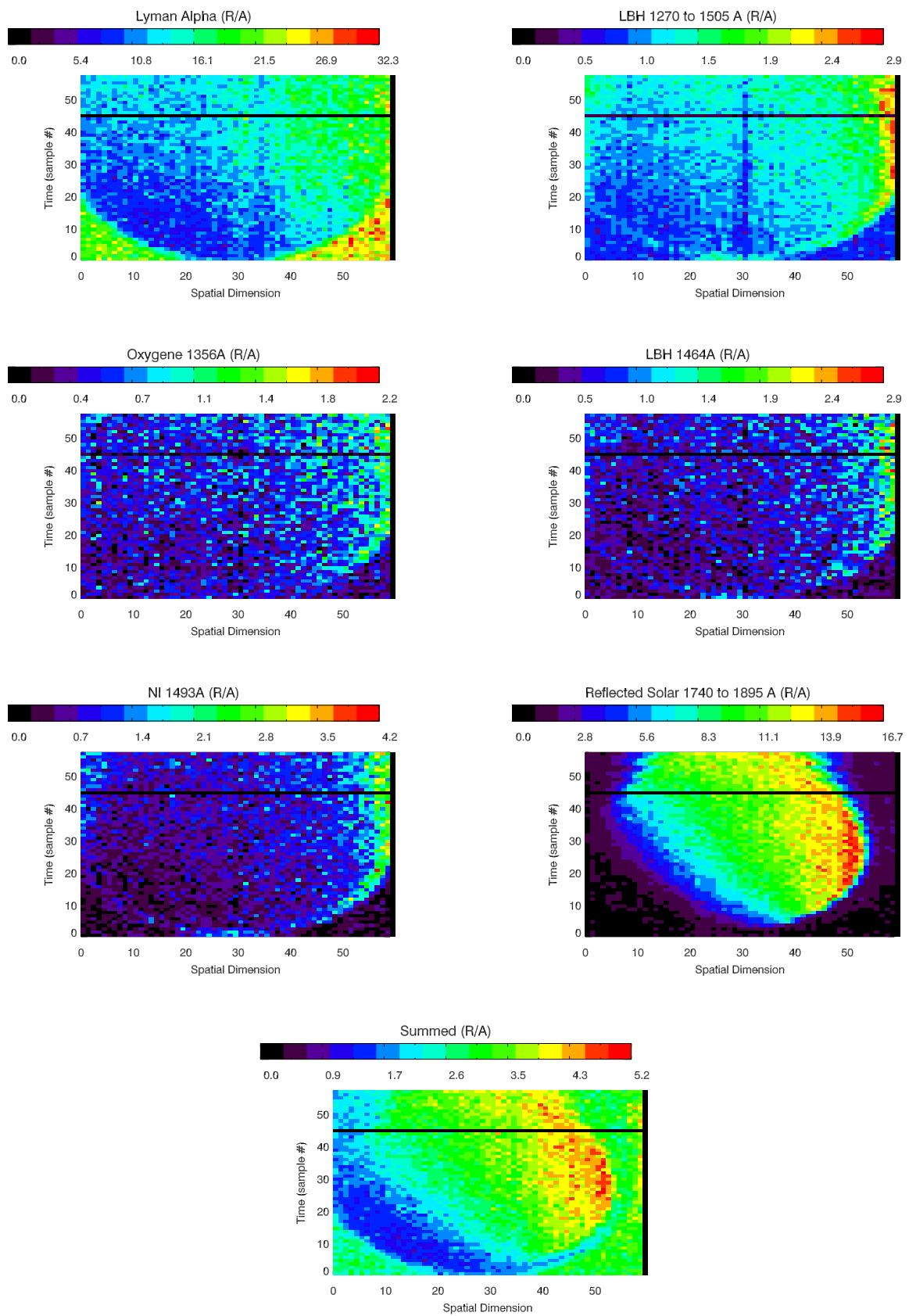


Figure 42: Panel of 7 detector images

EUV2005_360_21_45_00_UVIS_019TI_EUVFUV001_PRIME

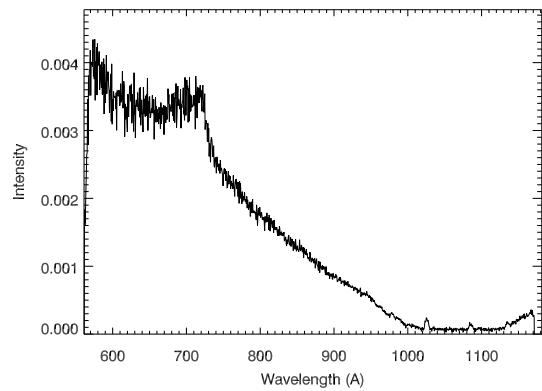


Figure 43: Spectra

body phase angle (deg): 144.7
distance (km): 114150.
Lon sub-s/c (180E): 199.5
Lat sub-s/c: 0.0
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 44: Geometry data

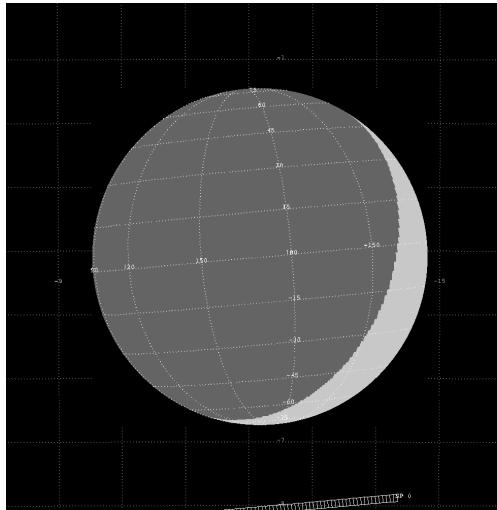


Figure 45: Frame 0

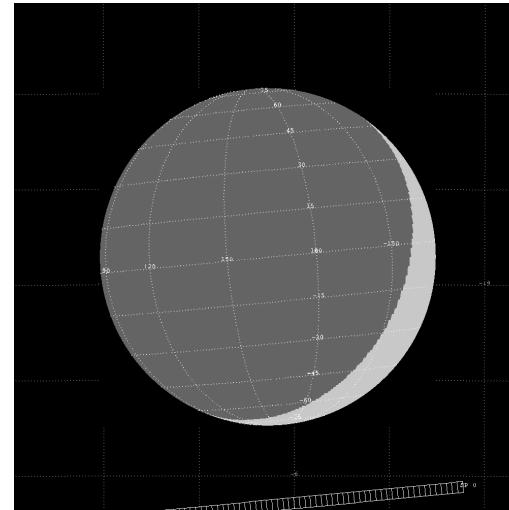


Figure 46: Frame 21

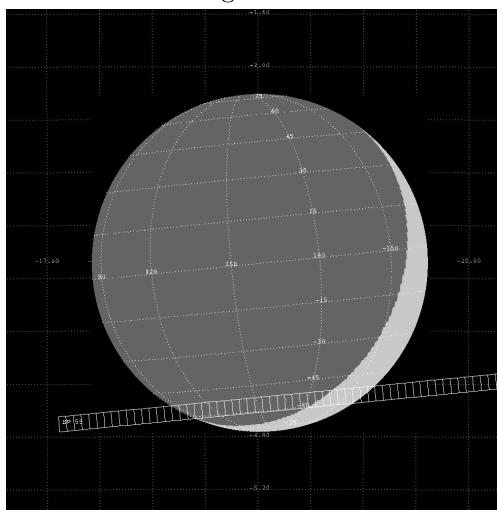


Figure 47: Frame 45

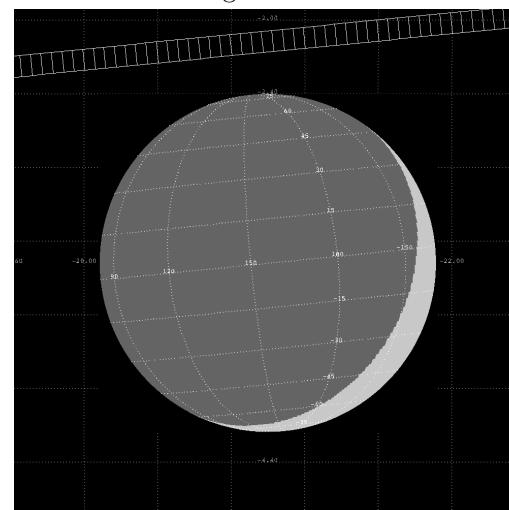


Figure 48: Frame 79

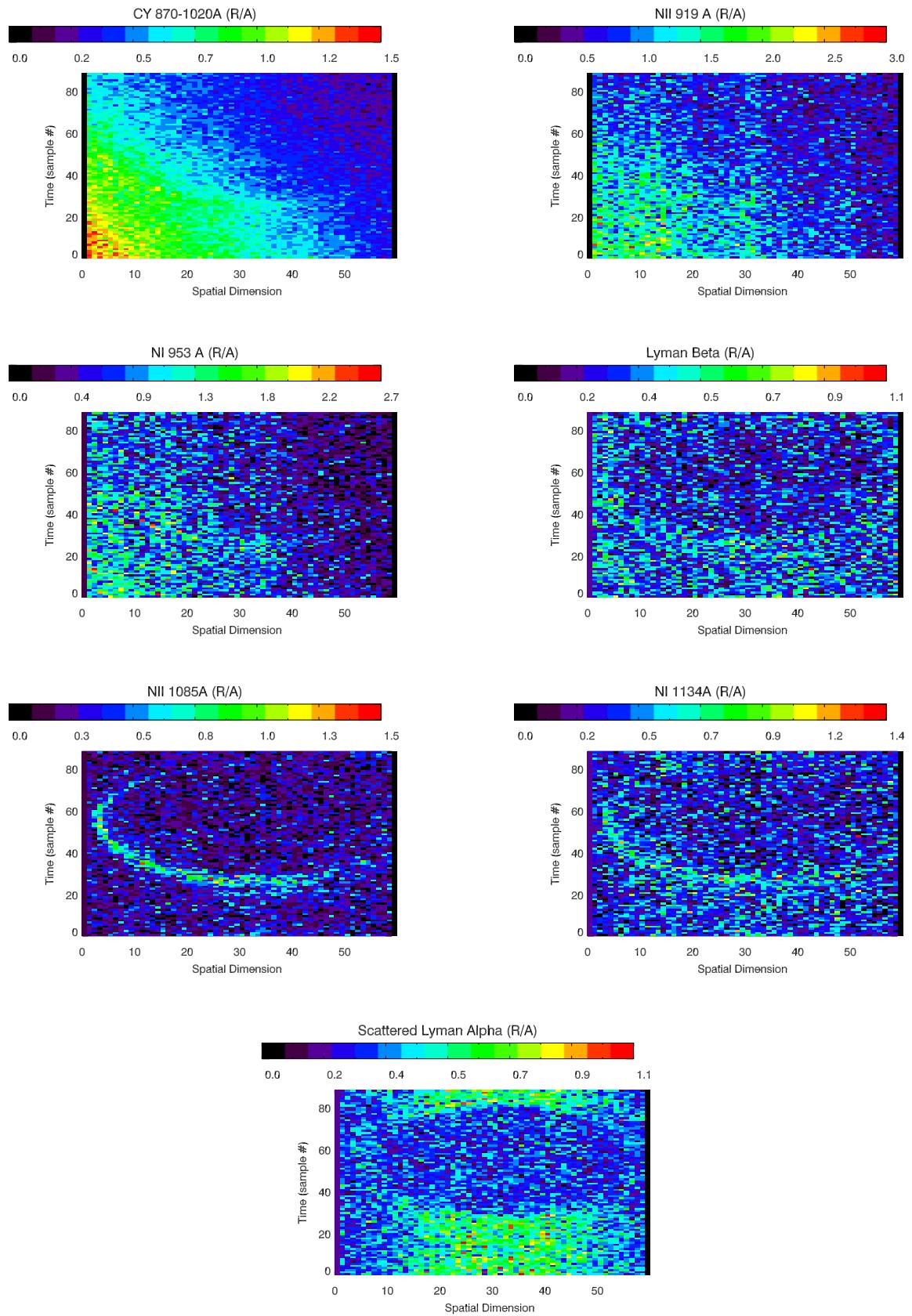


Figure 49: Panel of 7 detector images

FUV2005_360_21_45_00_UVIS_019TI_EUVFUV001_PRIME

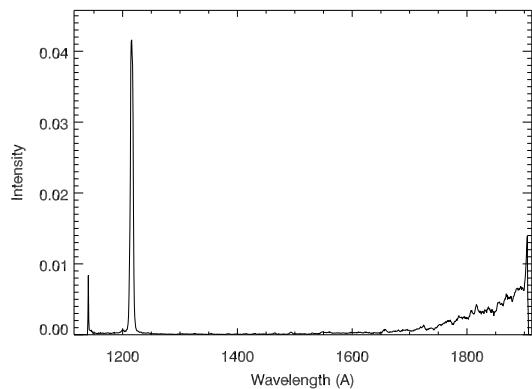


Figure 50: Spectra

body phase angle (deg): 144.7
distance (km): 114150.
Lon sub-s/c (180E): 199.5
Lat sub-s/c: 0.0
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 51: Geometry data

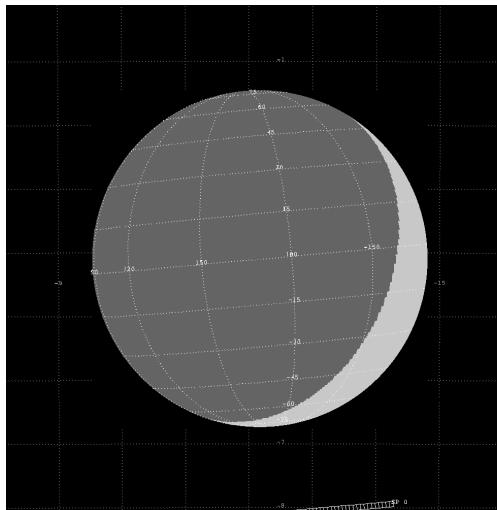


Figure 52: Frame 0

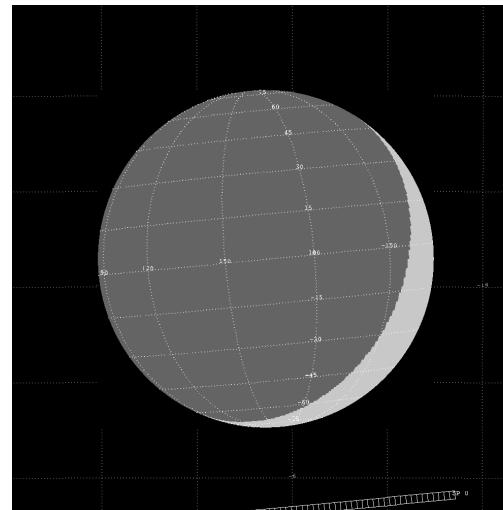


Figure 53: Frame 21

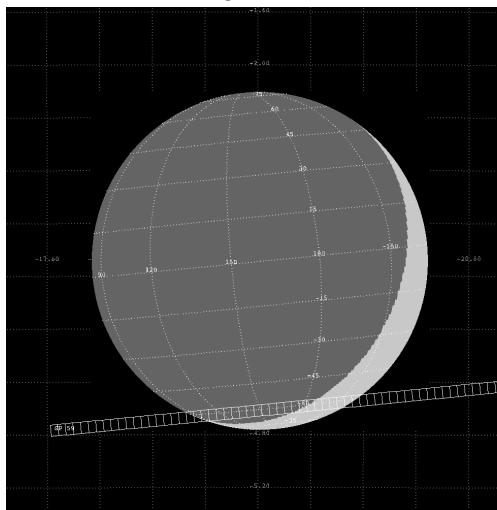


Figure 54: Frame 45

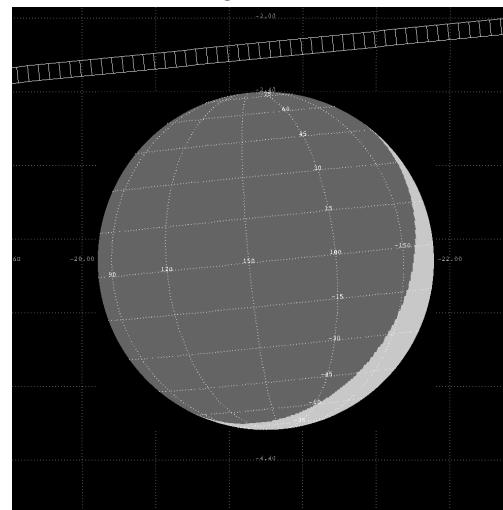


Figure 55: Frame 79

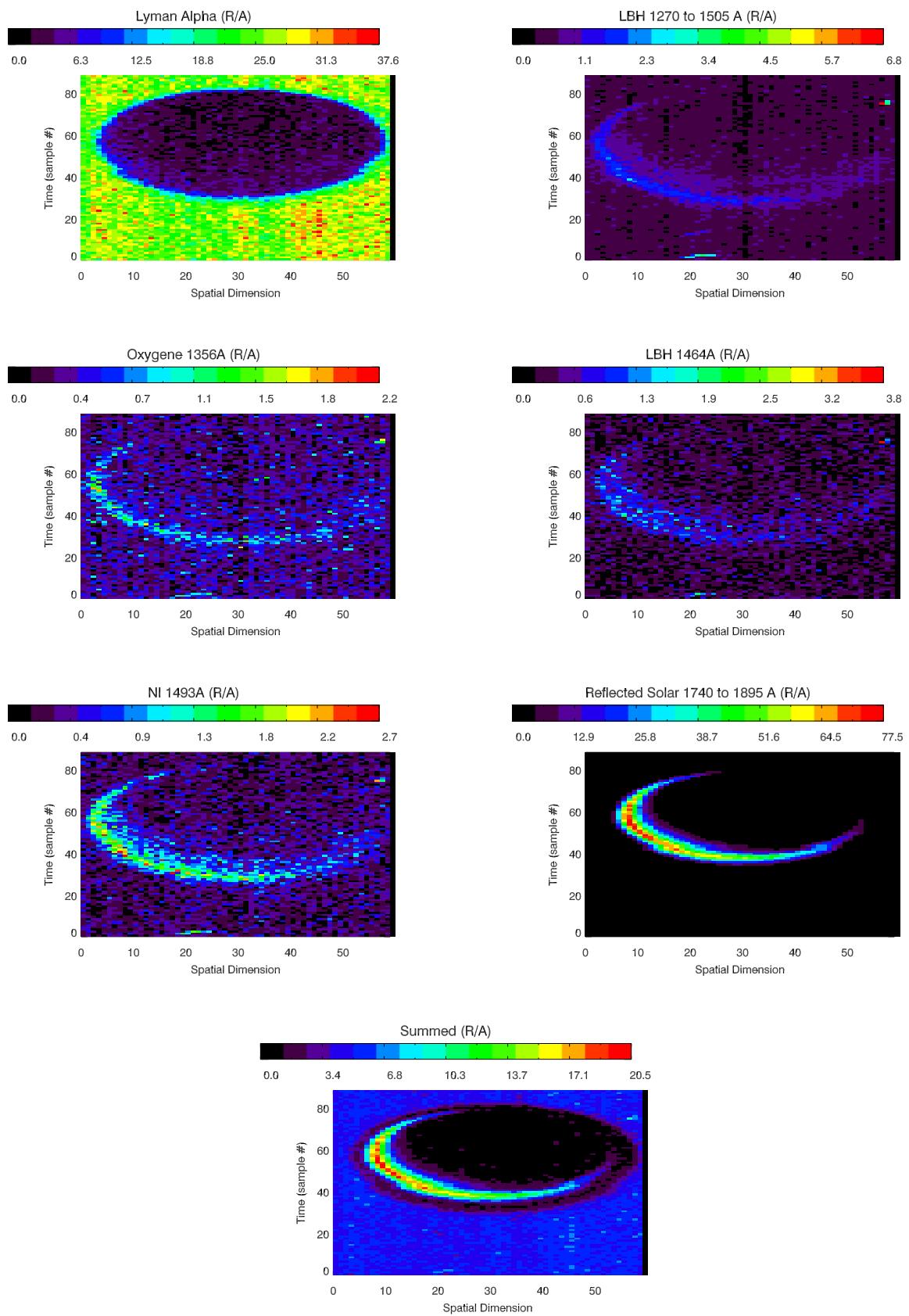


Figure 56: Panel of 7 detector images

Year 2006

Brief descriptif of observations:

- Day 015: Dayglow and faint nightglow with potential nighglow patches
- Day 058: Bright object seen in the background. Dayglow
- Day 121: Bright object in the background. Dayglow
- Day 140: Dayglow and nighglow. Interesting feature at the terminator (lack of glow)
- Day 140: Engineering obs
- Day 140: Disk-resolved observation. Dayglow
- Day 183: Dayglow, no nightglow
- Day 250: Faint nightglow and a dayglow
- Day 266: Faint nightglow and a dayglow
- Day 346: Dayglow, and a very faint nightglow at specific atomic lines (not in LBH)

EUV2006_015_14_47_37_UVIS_020TI_EUVFUV001_PRIME

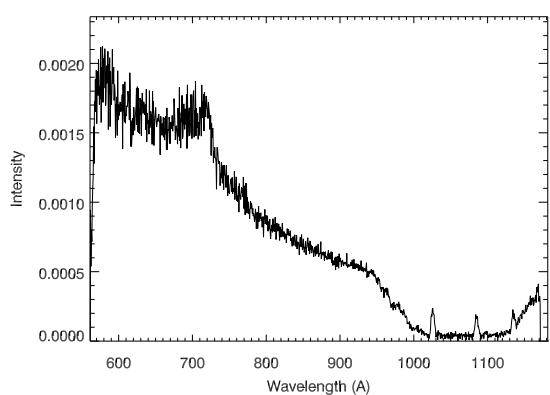


Figure 57: Spectra

body phase angle (deg): 142.5
distance (km): 109061.
Lon sub-s/c (180E): 346.8
Lat sub-s/c: 0.3
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 58: Geometry data

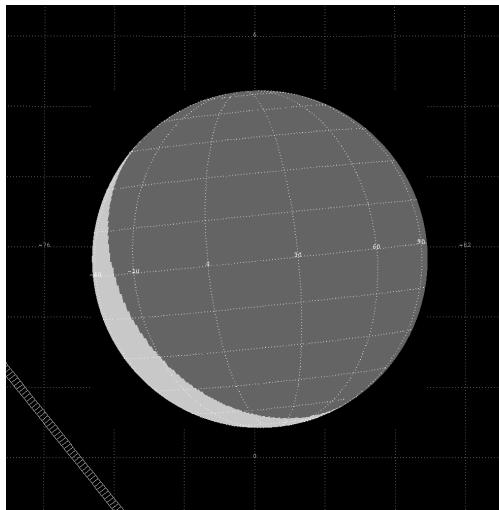


Figure 59: Frame 0

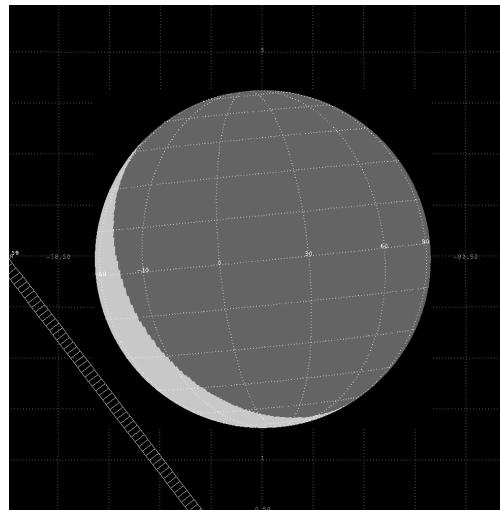


Figure 60: Frame 20

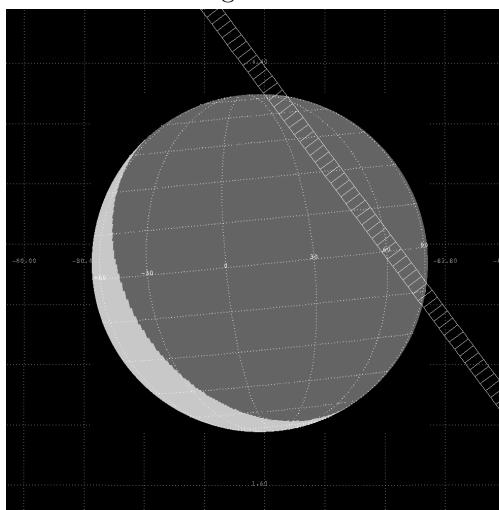


Figure 61: Frame 50

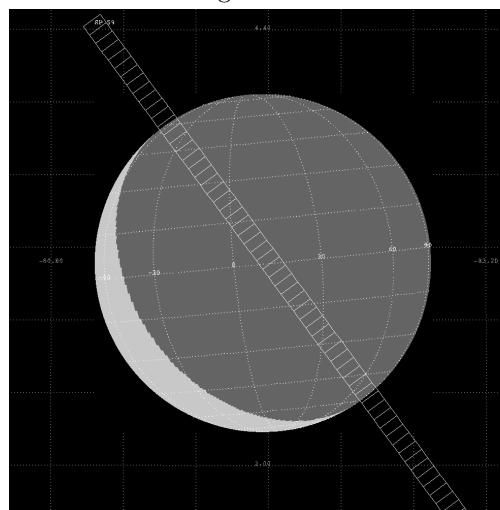


Figure 62: Frame 68

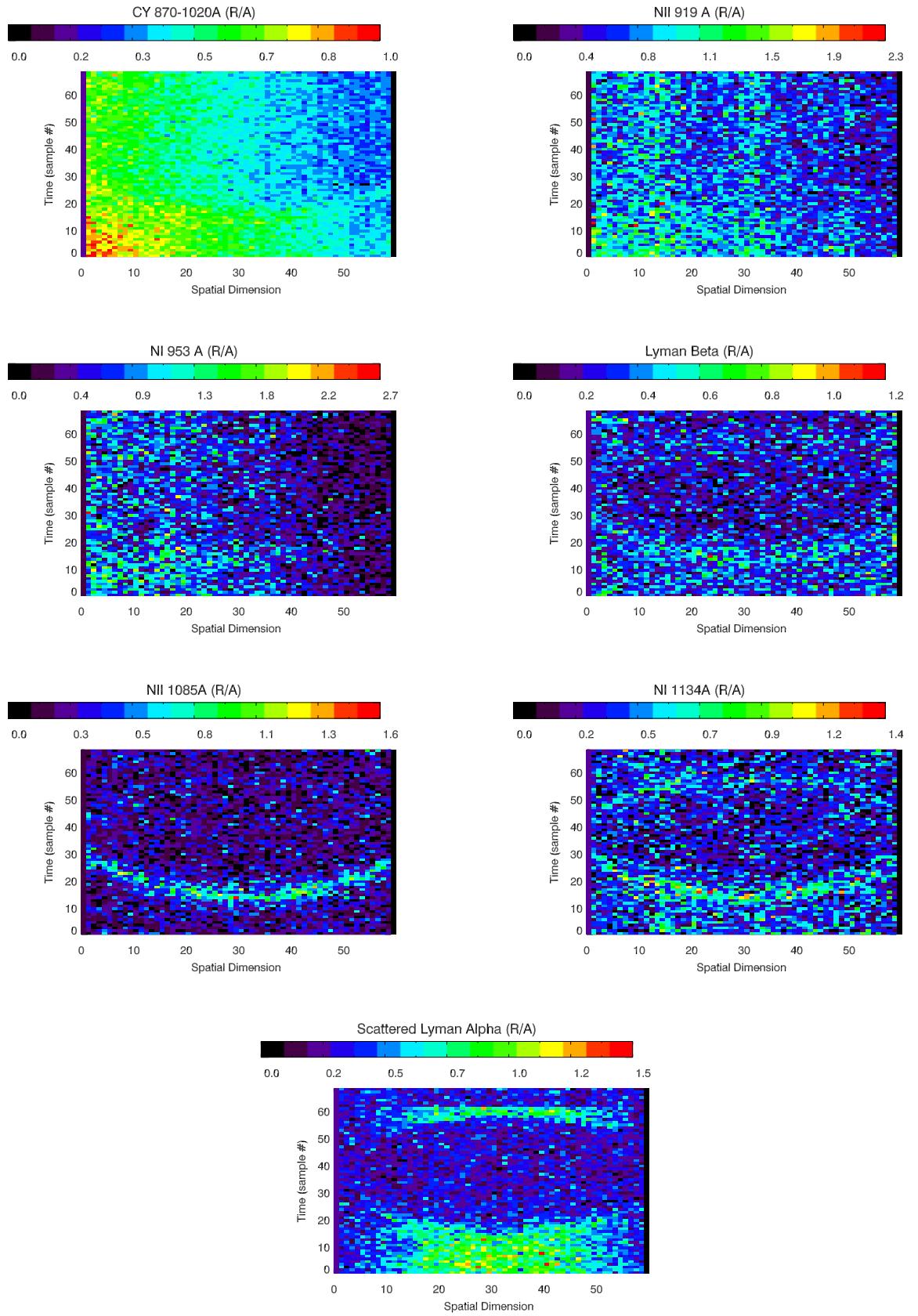


Figure 63: Panel of 7 detector images

FUV2006_015_14_47_37_UVIS_020TI_EUVFUV001_PRIME

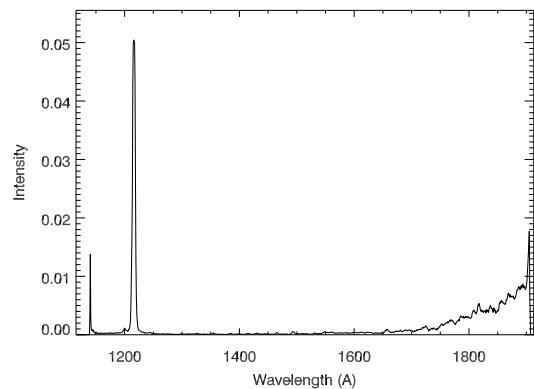


Figure 64: Spectra

body phase angle (deg): 142.5
distance (km): 109061.
Lon sub-s/c (180E): 346.8
Lat sub-s/c: 0.3
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 65: Geometry data

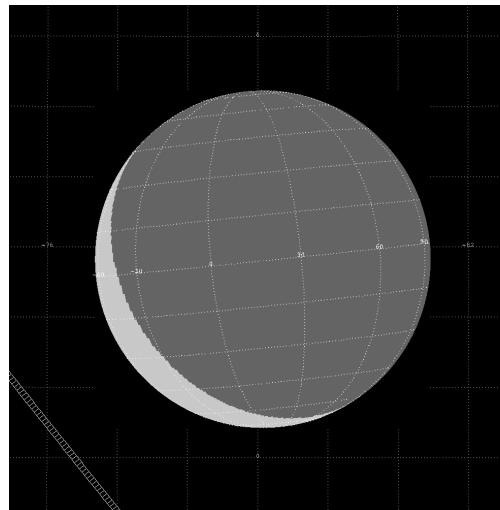


Figure 66: Frame 0

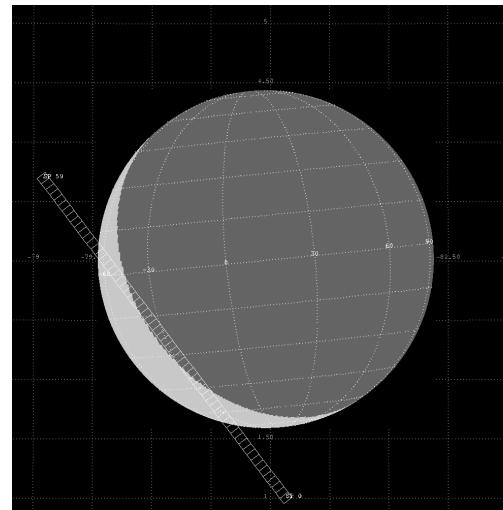


Figure 67: Frame 30

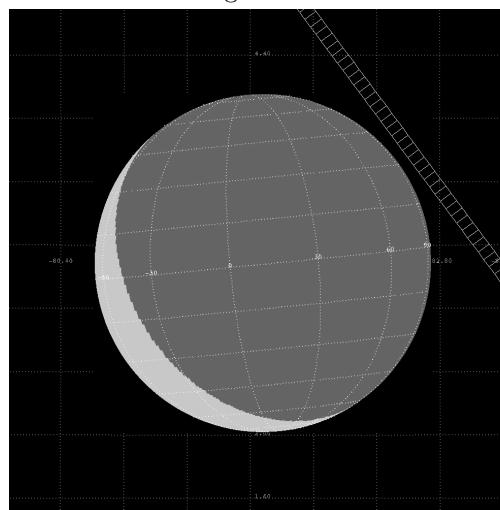


Figure 68: Frame 55

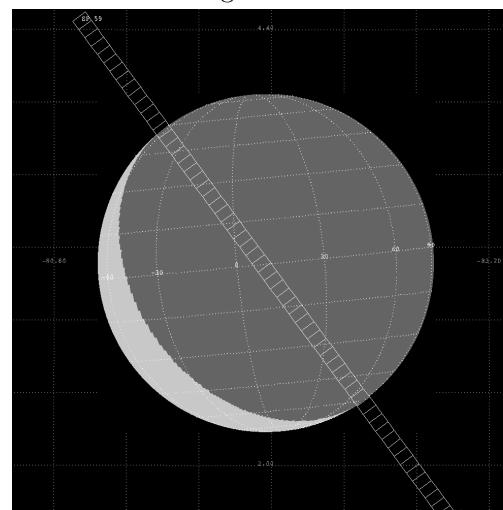


Figure 69: Frame 68

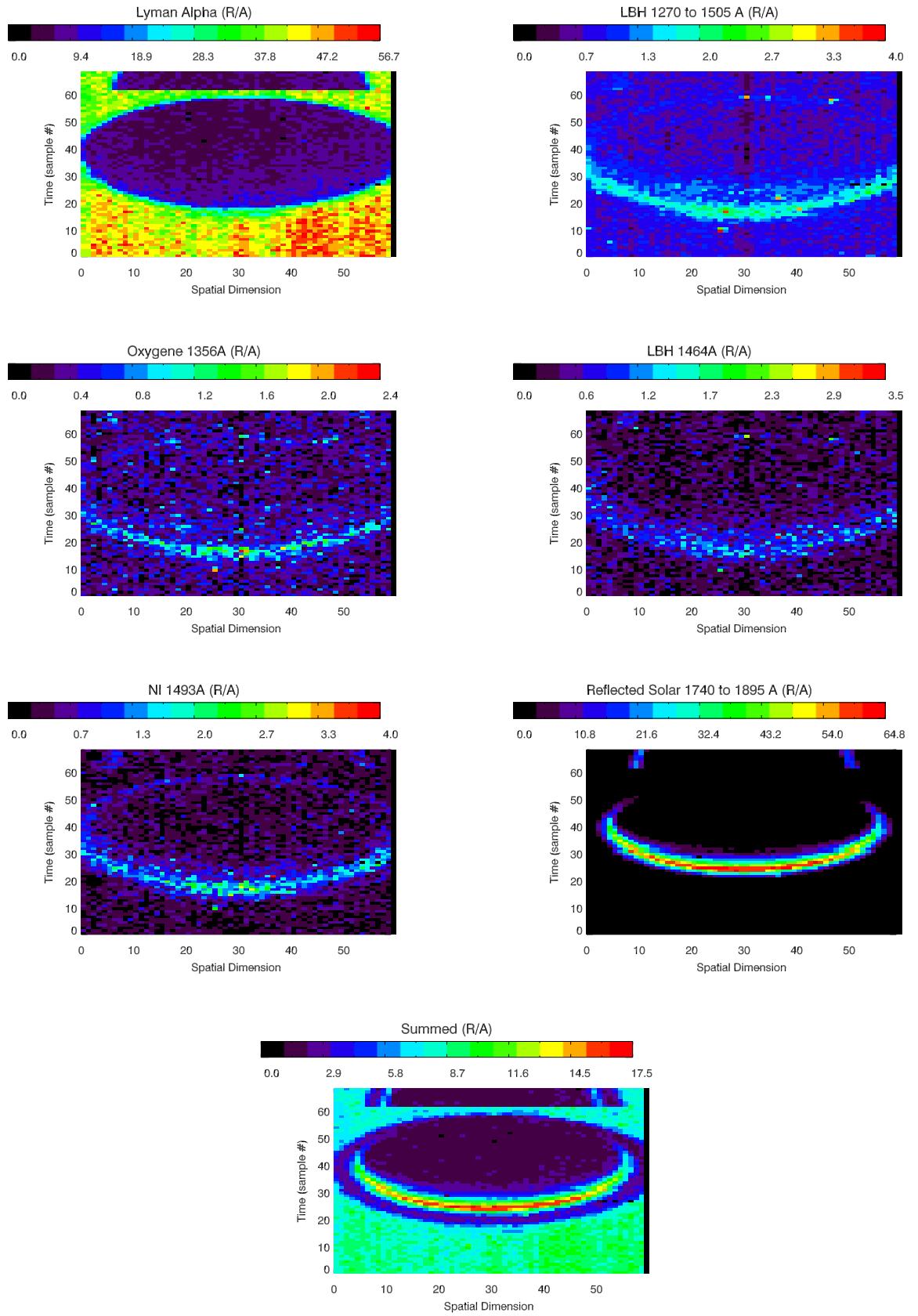


Figure 70: Panel of 7 detector images

EUV2006_058_13_30_58_UVIS_021TI_EUVFUV002_PRIME

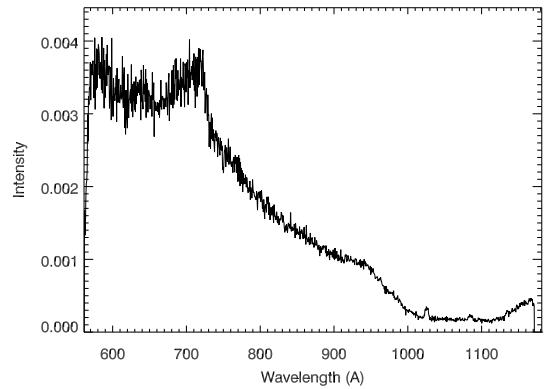


Figure 71: Spectra

body phase angle (deg): 161.5
distance (km): 135100.
Lon sub-s/c (180E): 205.1
Lat sub-s/c: 0.2
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 220

Figure 72: Geometry data

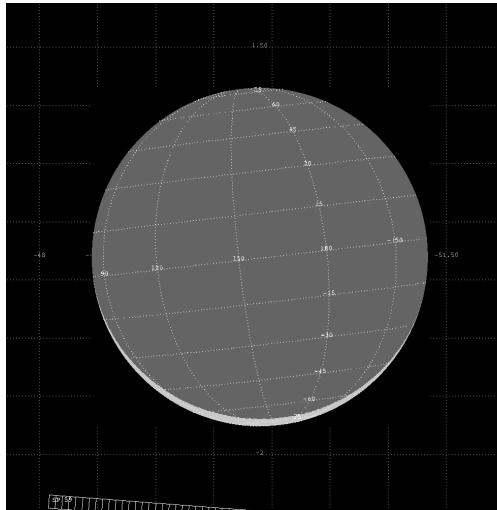


Figure 73: Frame 0

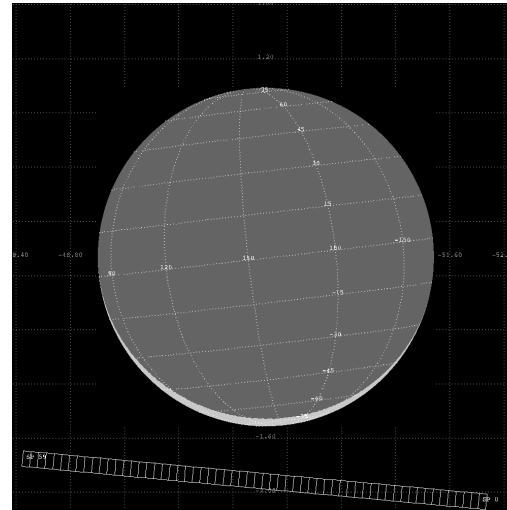


Figure 74: Frame 13

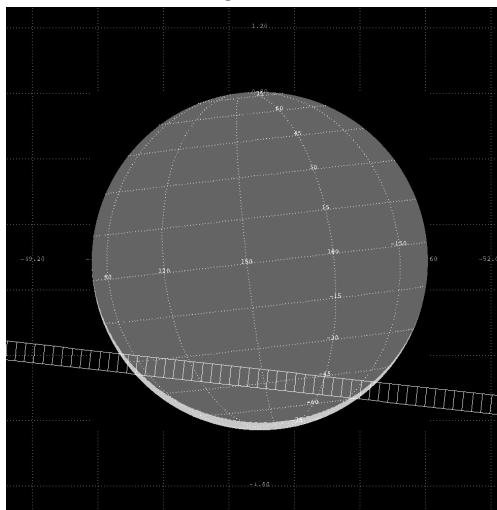


Figure 75: Frame 32

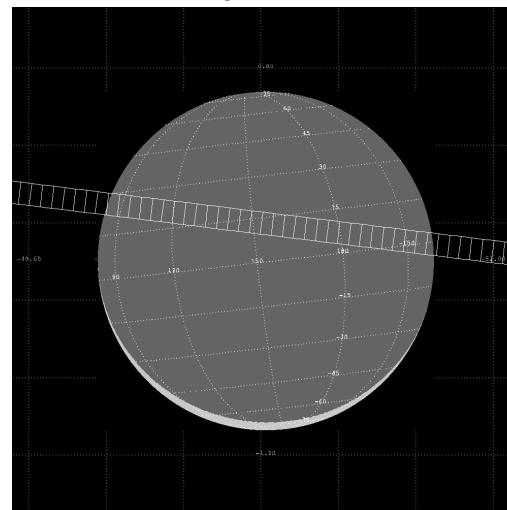


Figure 76: Frame 52

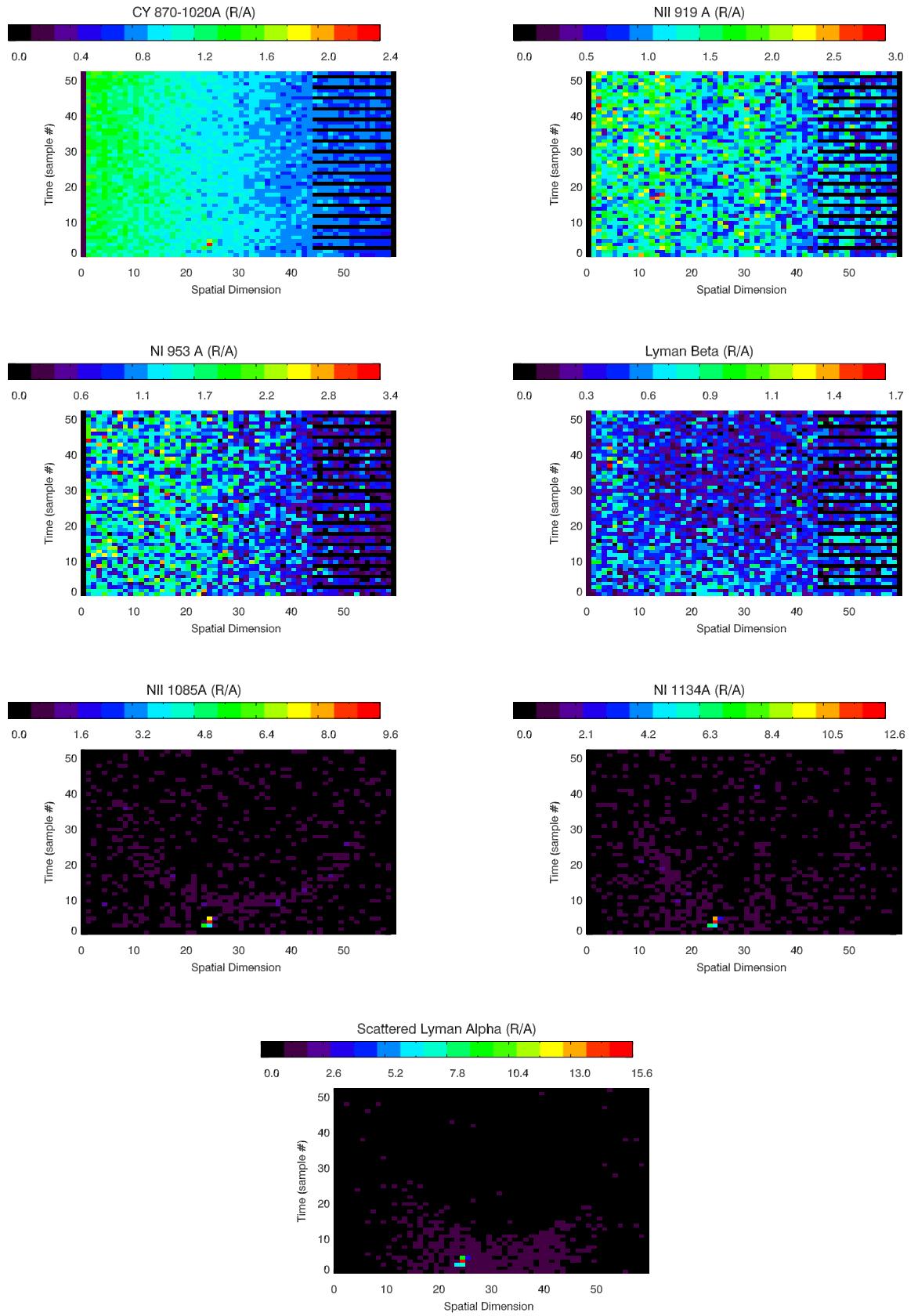


Figure 77: Panel of 7 detector images

FUV2006_058_13_30_58_UVIS_021TI_EUVFUV002_PRIME

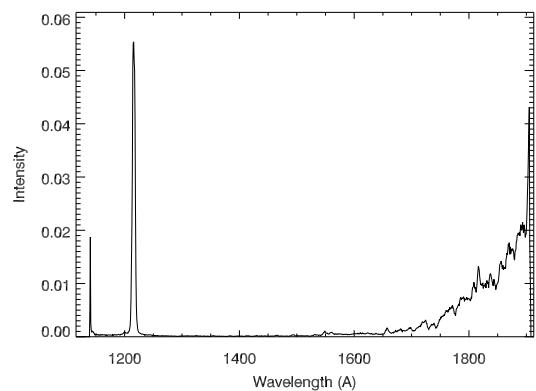


Figure 78: Spectra

body phase angle (deg): 161.5
distance (km): 135100.
Lon sub-s/c (180E): 205.1
Lat sub-s/c: 0.2
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 220

Figure 79: Geometry data

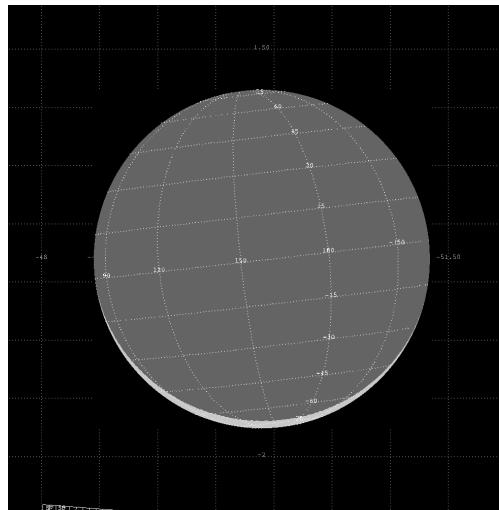


Figure 80: Frame 0

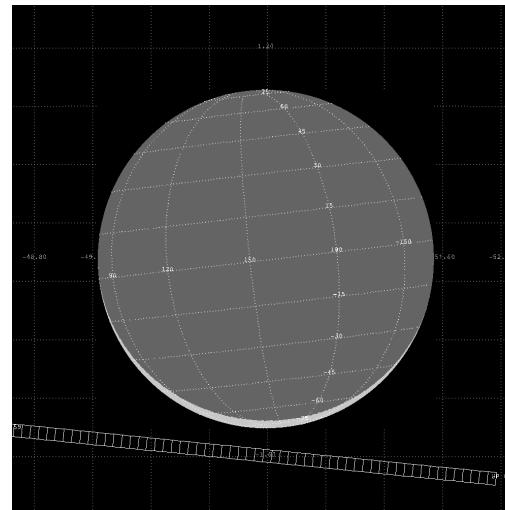


Figure 81: Frame 20

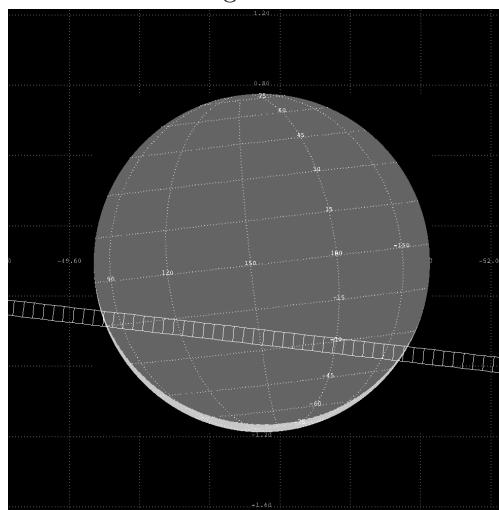


Figure 82: Frame 40

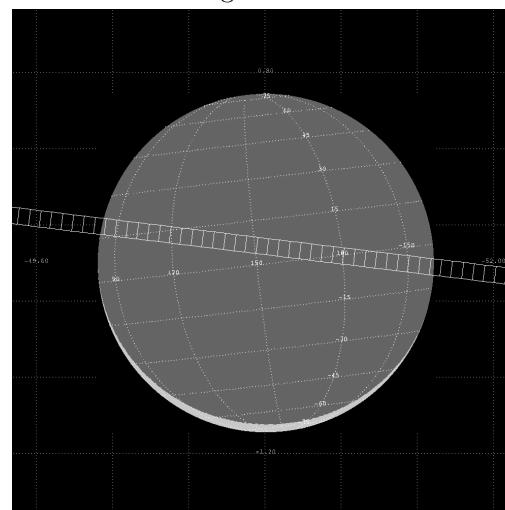


Figure 83: Frame 50

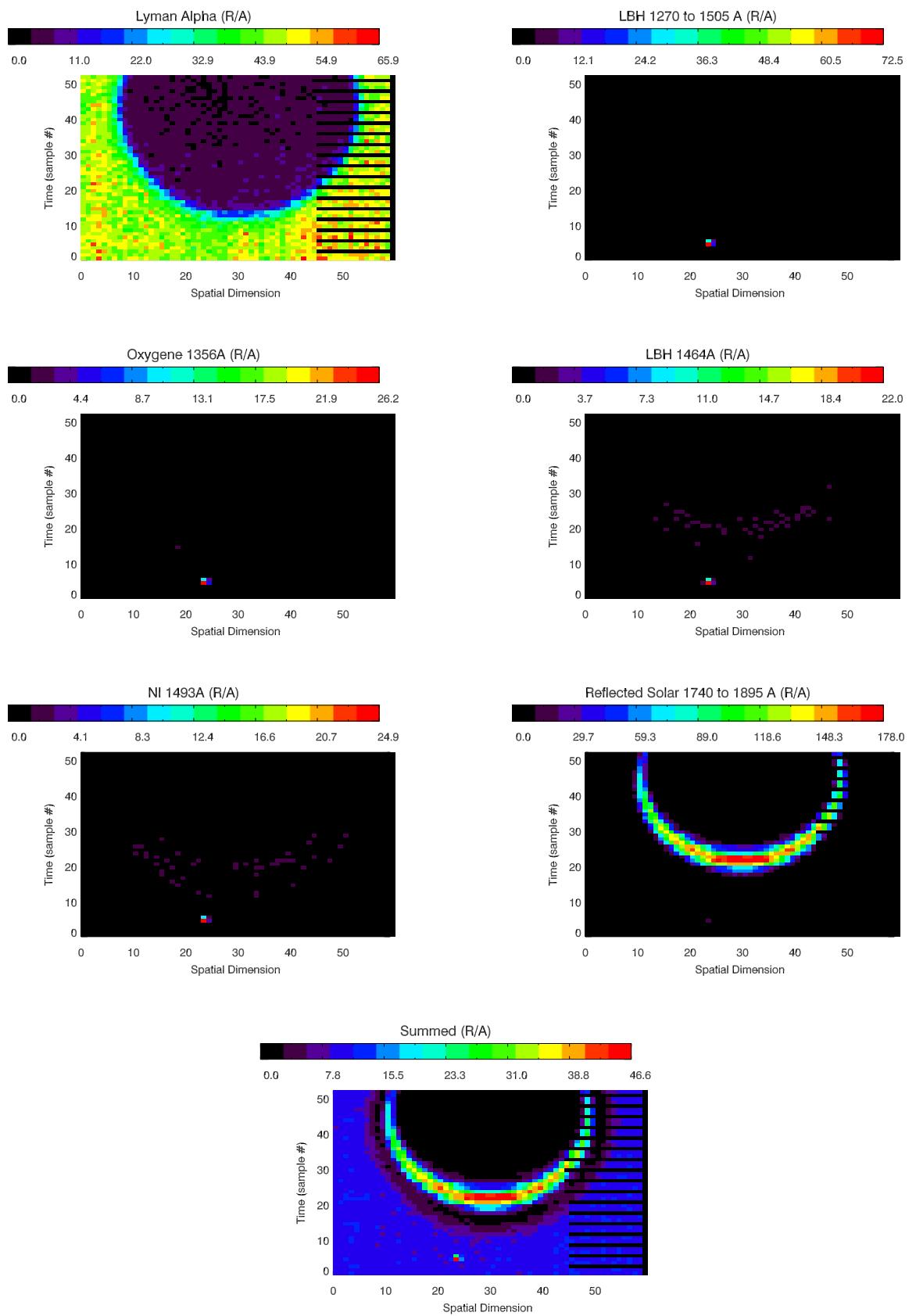


Figure 84: Panel of 7 detector images

EUV2006_121_02_23_53_UVIS_023TI_EUVFU002_PRIME

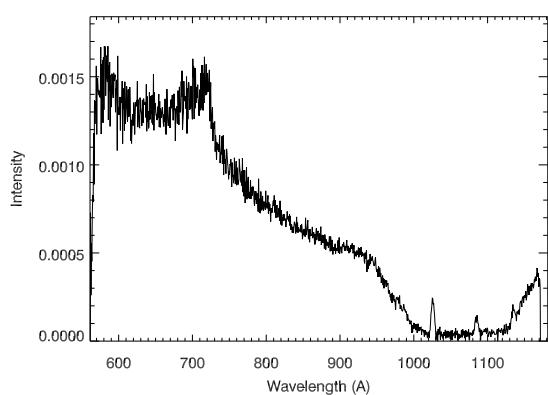


Figure 85: Spectra

body phase angle (deg): 142.4
distance (km): 157822.
Lon sub-s/c (180E): 205.4
Lat sub-s/c: 0.3
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 86: Geometry data

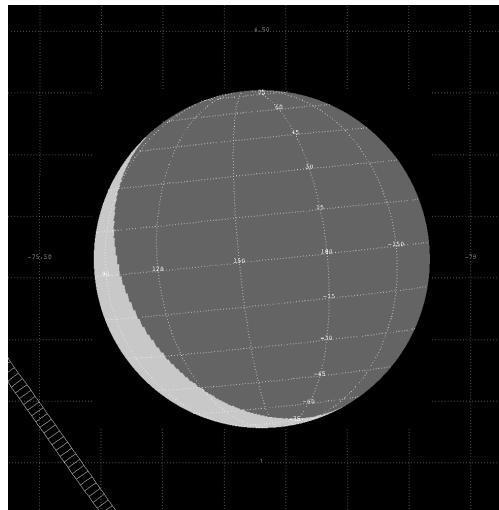


Figure 87: Frame 0

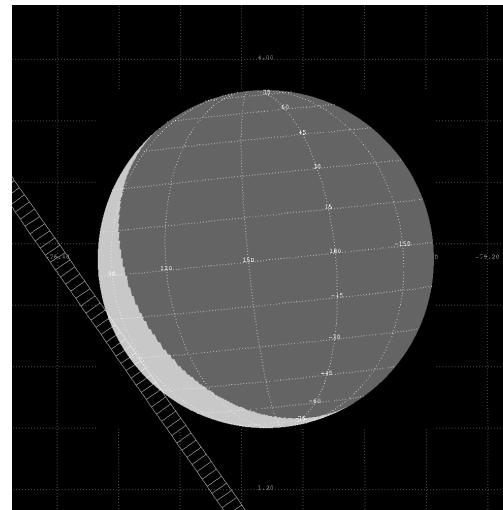


Figure 88: Frame 20

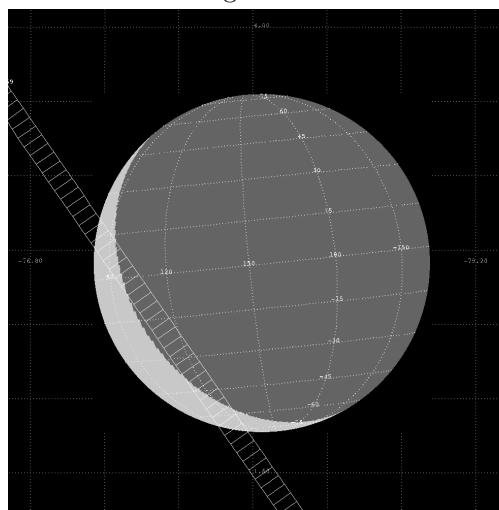


Figure 89: Frame 40

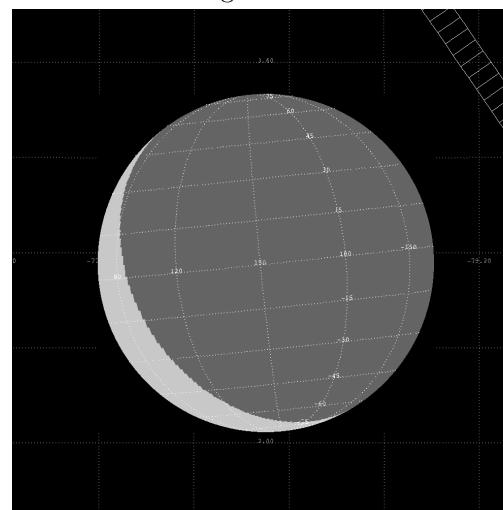


Figure 90: Frame 74

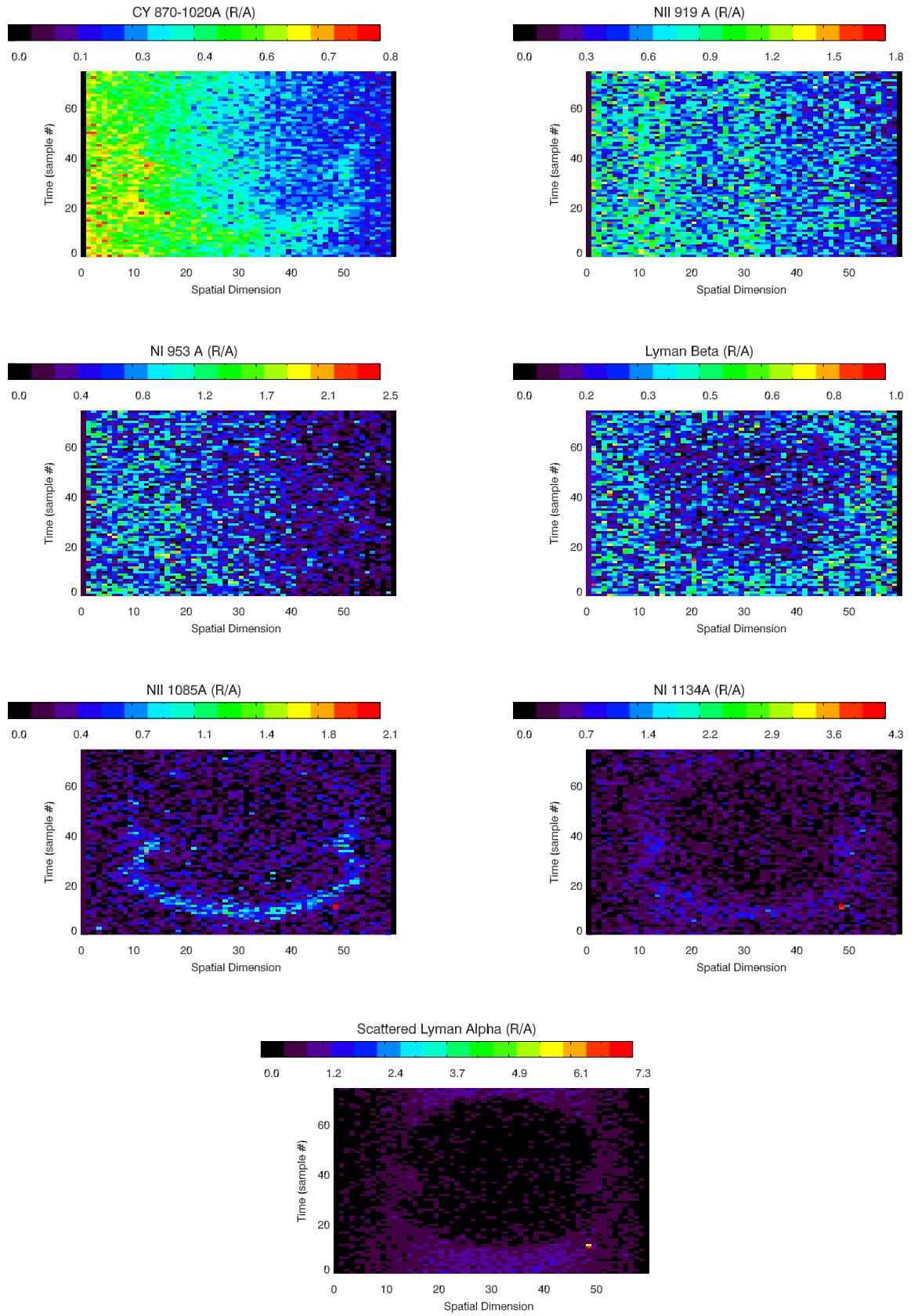


Figure 91: Panel of 7 detector images

FUV2006_121_02_23_53_UVIS_023TI_EUVFU002_PRIME

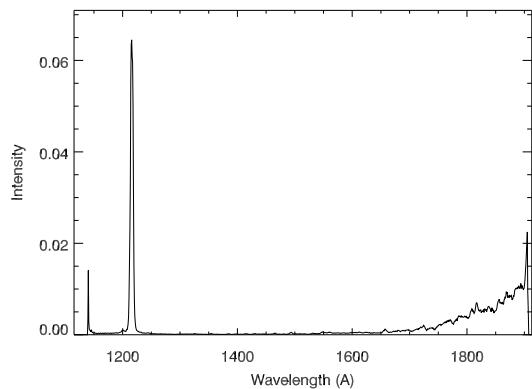


Figure 92: Spectra

body phase angle (deg): 142.4
distance (km): 157822.
Lon sub-s/c (180E): 205.4
Lat sub-s/c: 0.3
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 93: Geometry data

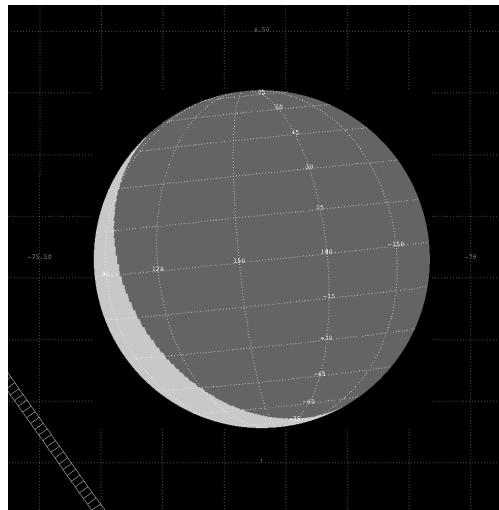


Figure 94: Frame 0

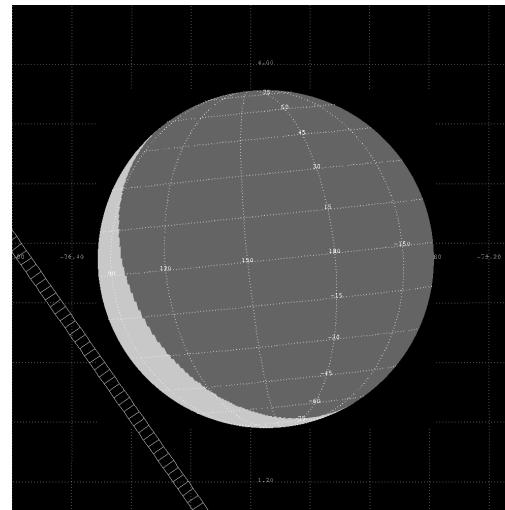


Figure 95: Frame 17

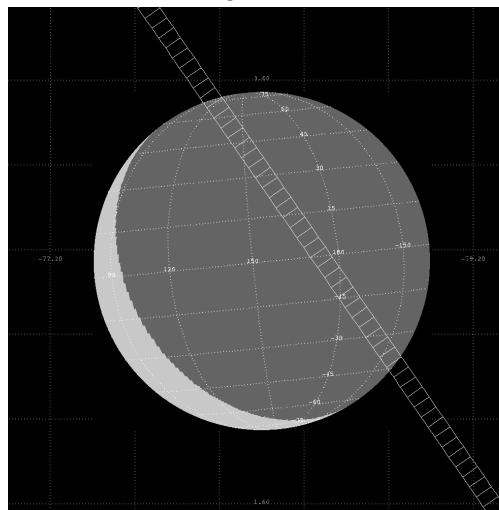


Figure 96: Frame 57

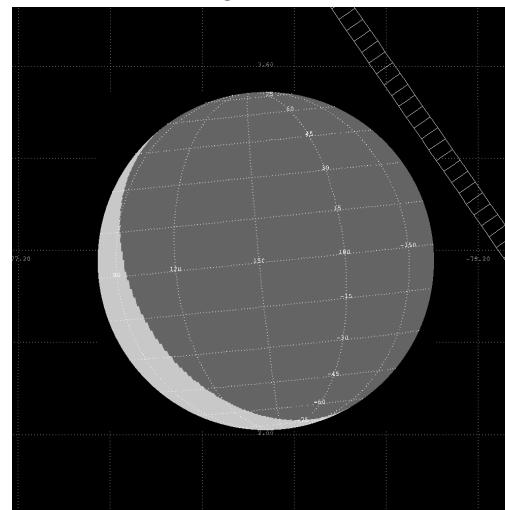


Figure 97: Frame 69

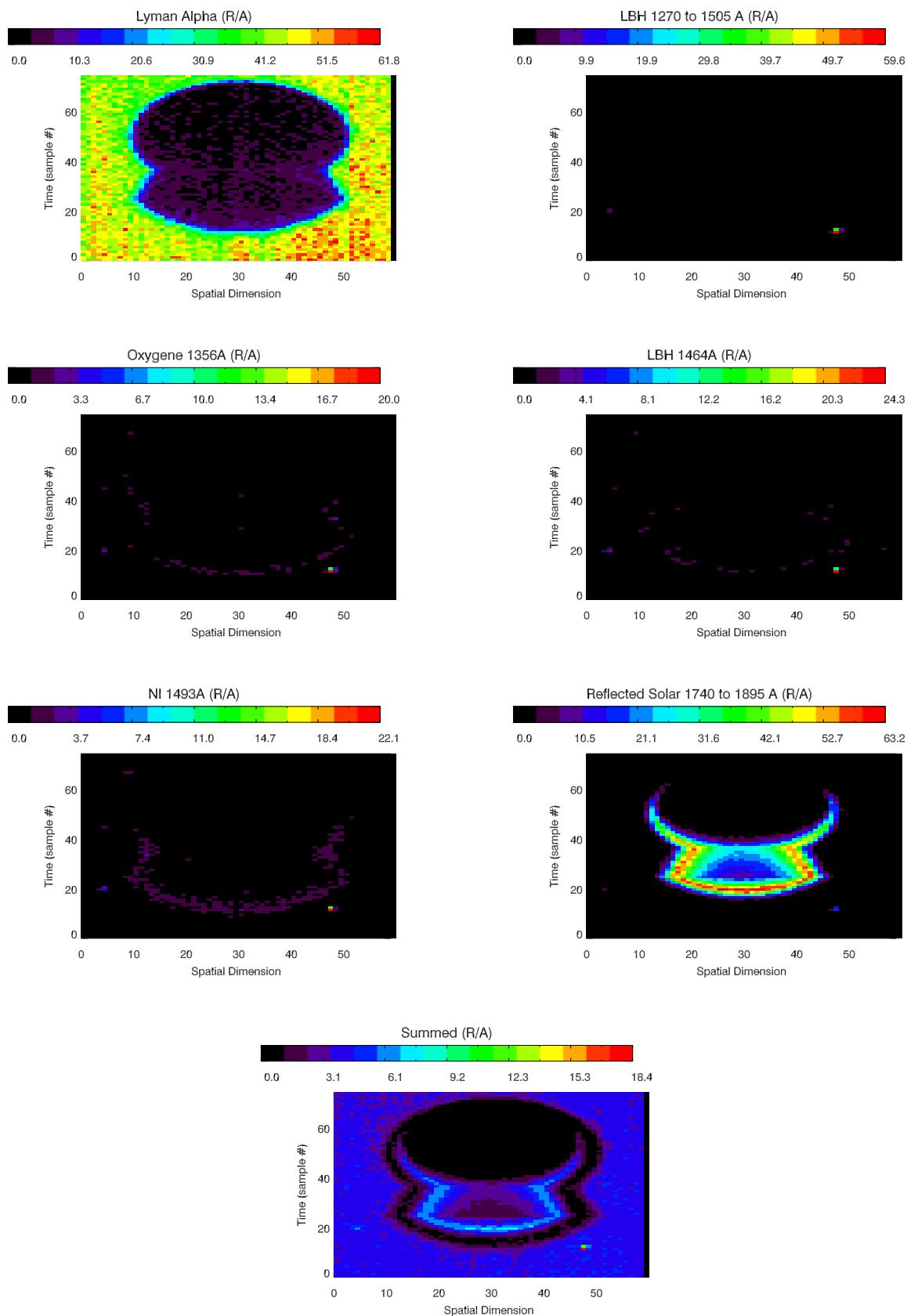


Figure 98: Panel of 7 detector images

EUV2006_140_04_53_39_UVIS_024TI_EUVFU001_PRIME

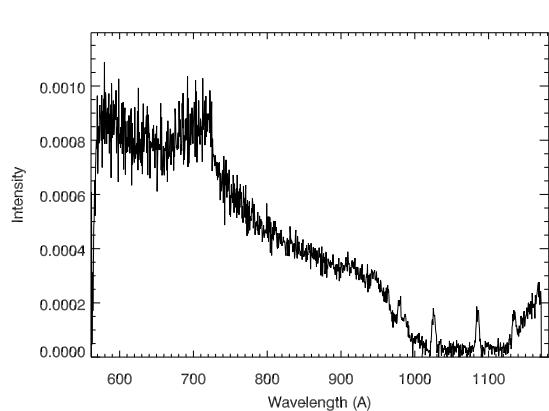


Figure 99: Spectra

body phase angle (deg): 92.2
distance (km): 108818.
Lon sub-s/c (180E): 153.9
Lat sub-s/c: -0.2
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 100: Geometry data

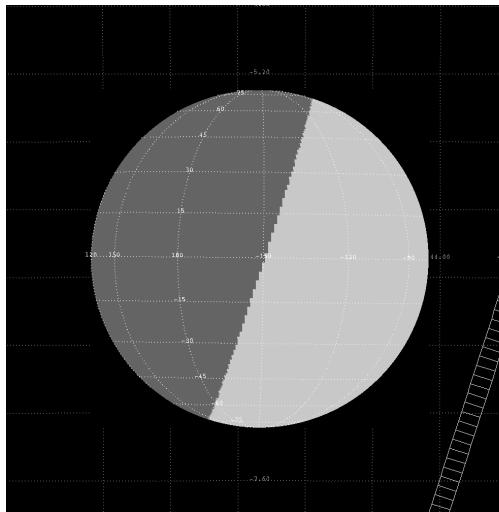


Figure 101: Frame 0

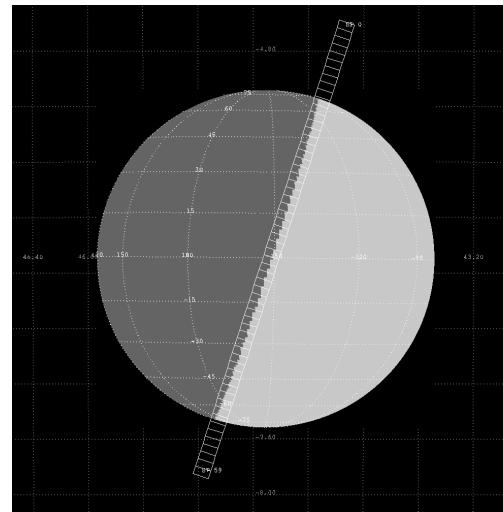


Figure 102: Frame 20

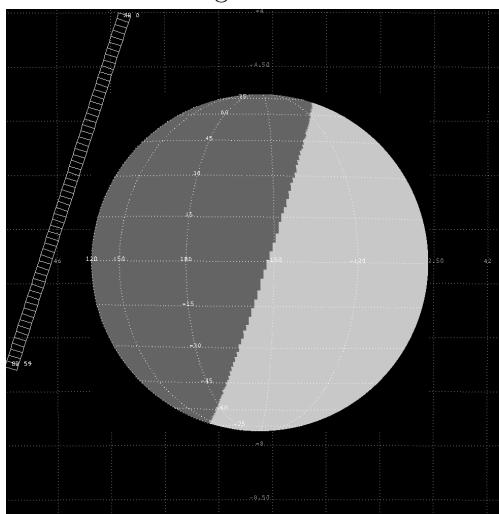


Figure 103: Frame 40

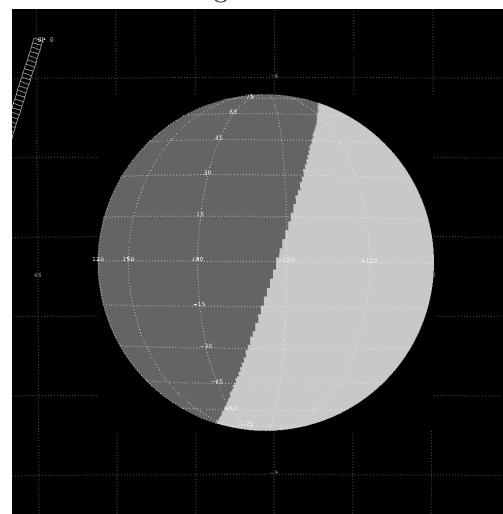


Figure 104: Frame 59

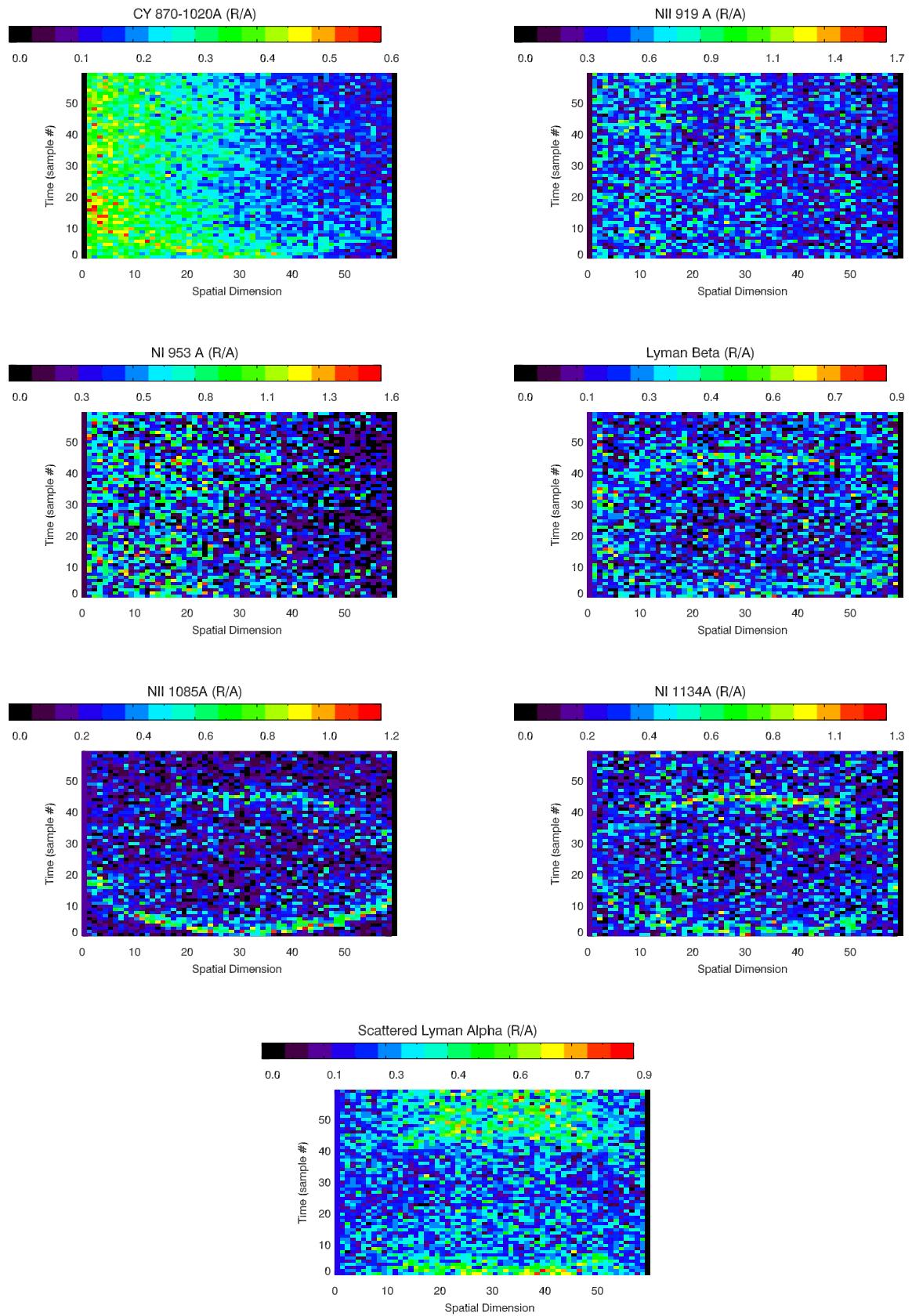


Figure 105: Panel of 7 detector images

FUV2006_140_04_53_39_UVIS_024TI_EUVFU001_PRIME

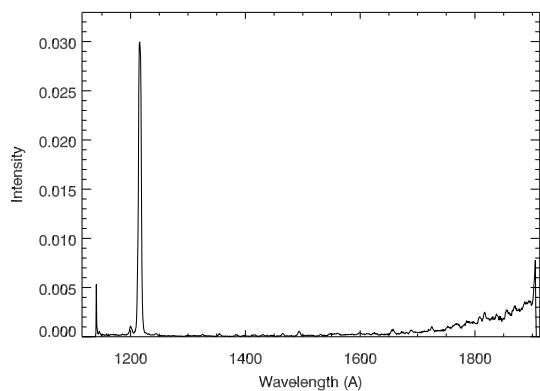


Figure 106: Spectra

body phase angle (deg): 92.2
distance (km): 108818.
Lon sub-s/c (180E): 153.9
Lat sub-s/c: -0.2
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 107: Geometry data

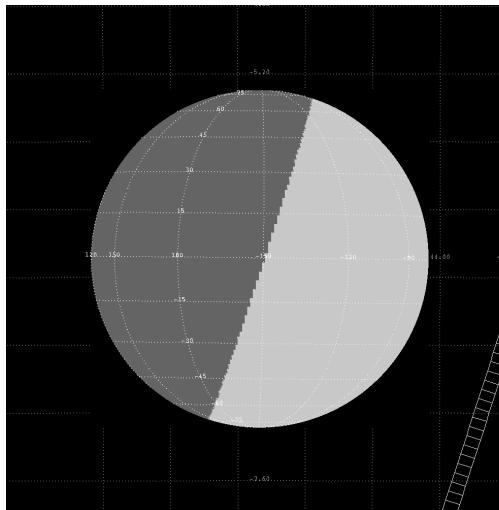


Figure 108: Frame 0

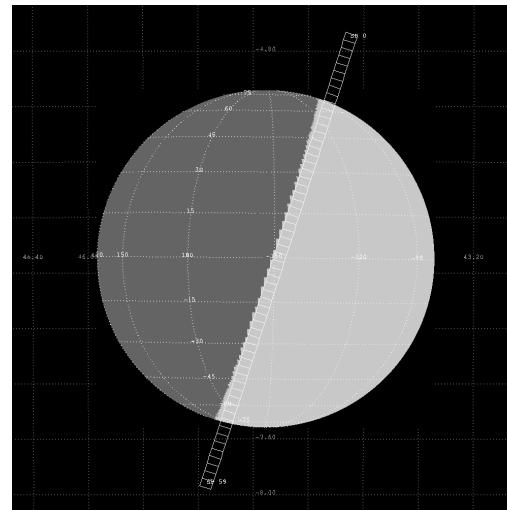


Figure 109: Frame 20

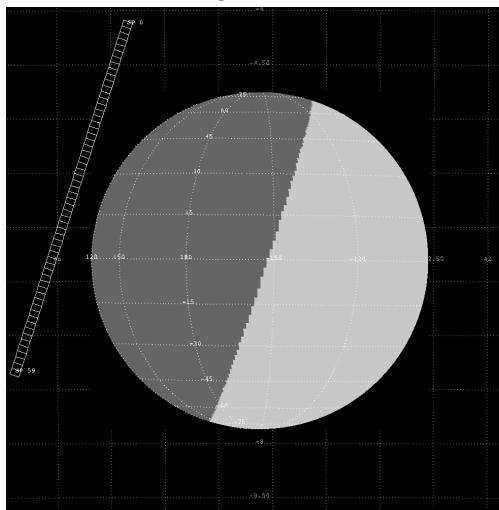


Figure 110: Frame 20

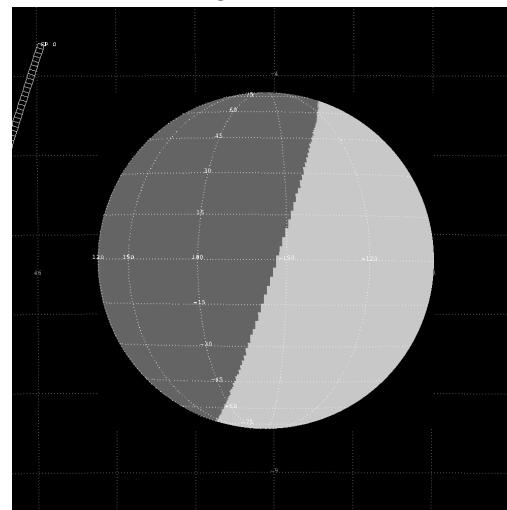


Figure 111: Frame 59

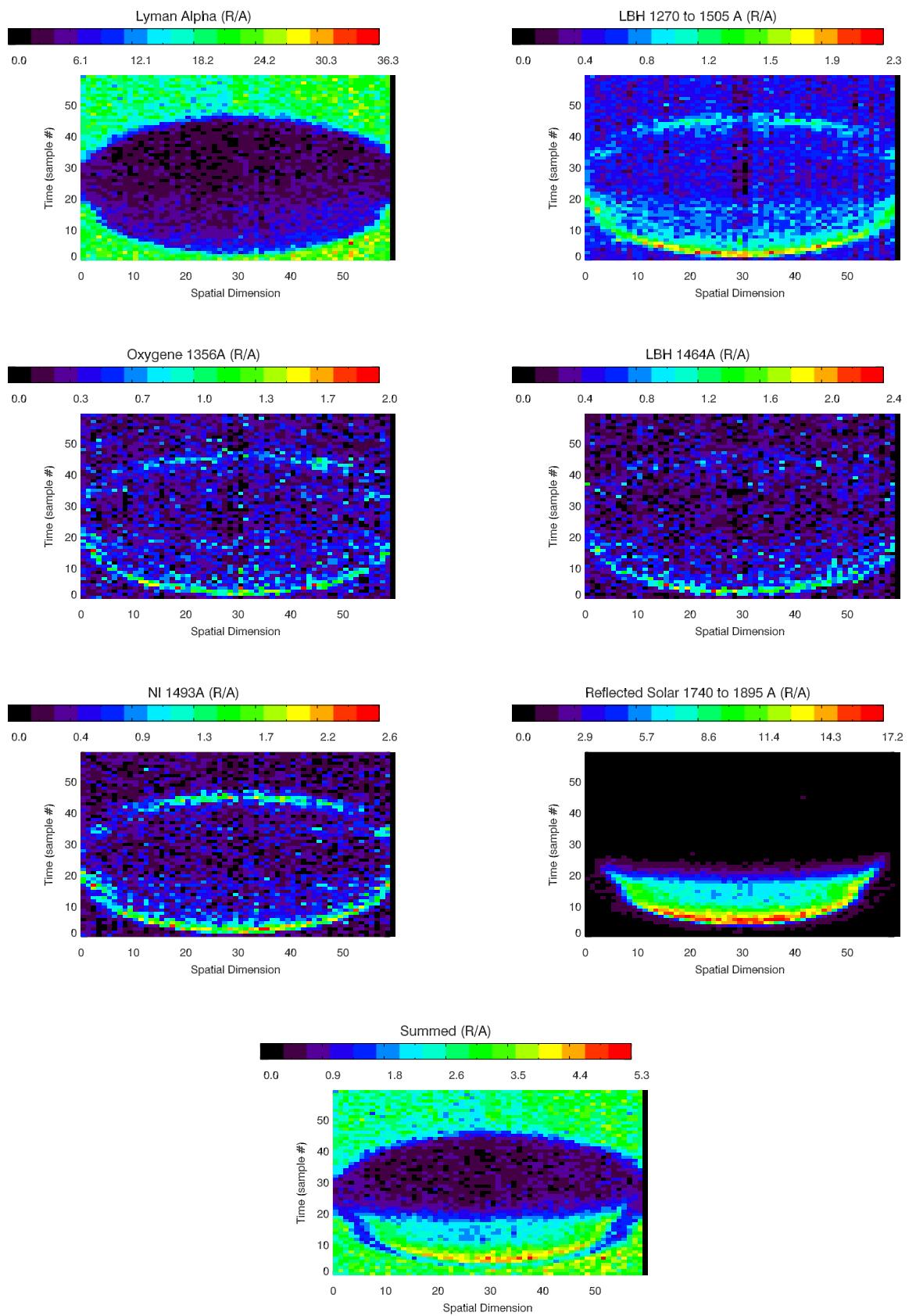


Figure 112: Panel of 7 detector images

EUV2006_140_09_00_30_UVIS_024TI_EUVFUV001_ENGR

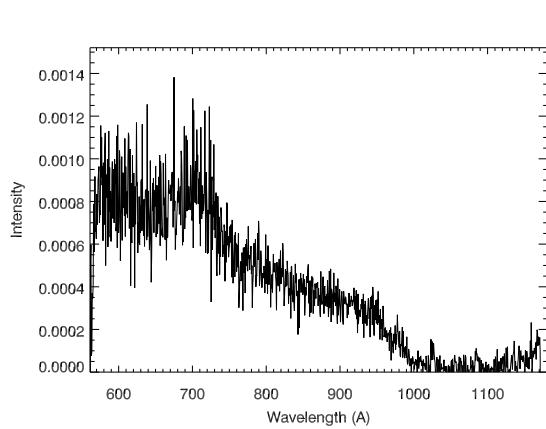


Figure 113: Spectra

body phase angle (deg): 93.7
distance (km): 63899.
Lon sub-s/c (180E): 157.6
Lat sub-s/c: -0.2
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 114: Geometry data

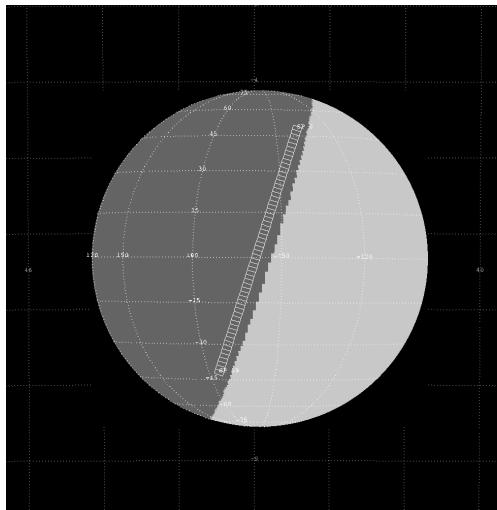


Figure 115: Frame 0

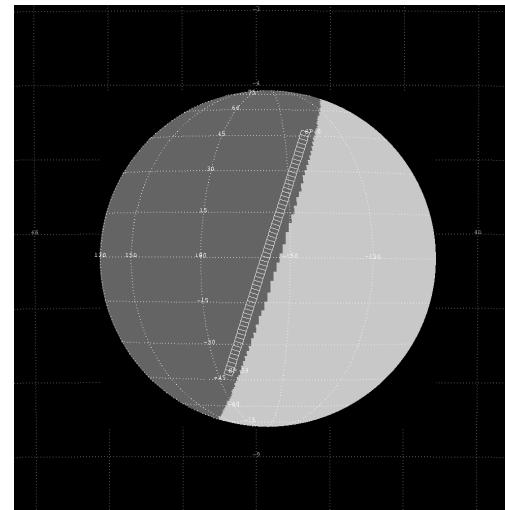


Figure 116: Frame 1

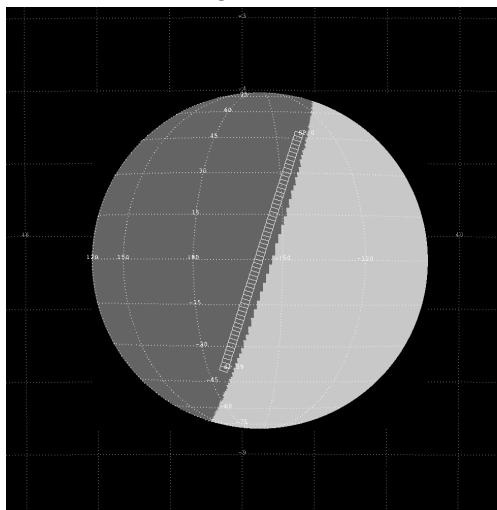


Figure 117: Frame 2

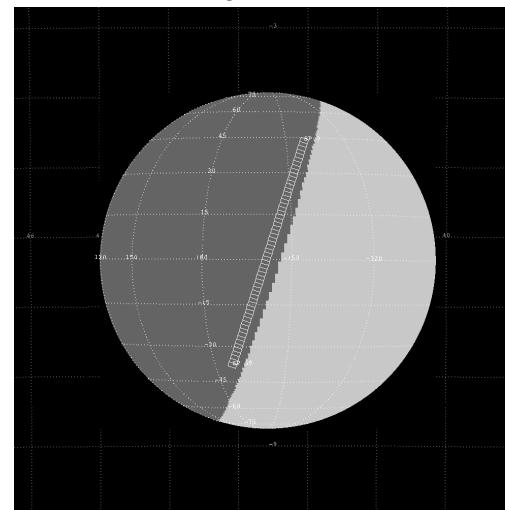


Figure 118: Frame 4

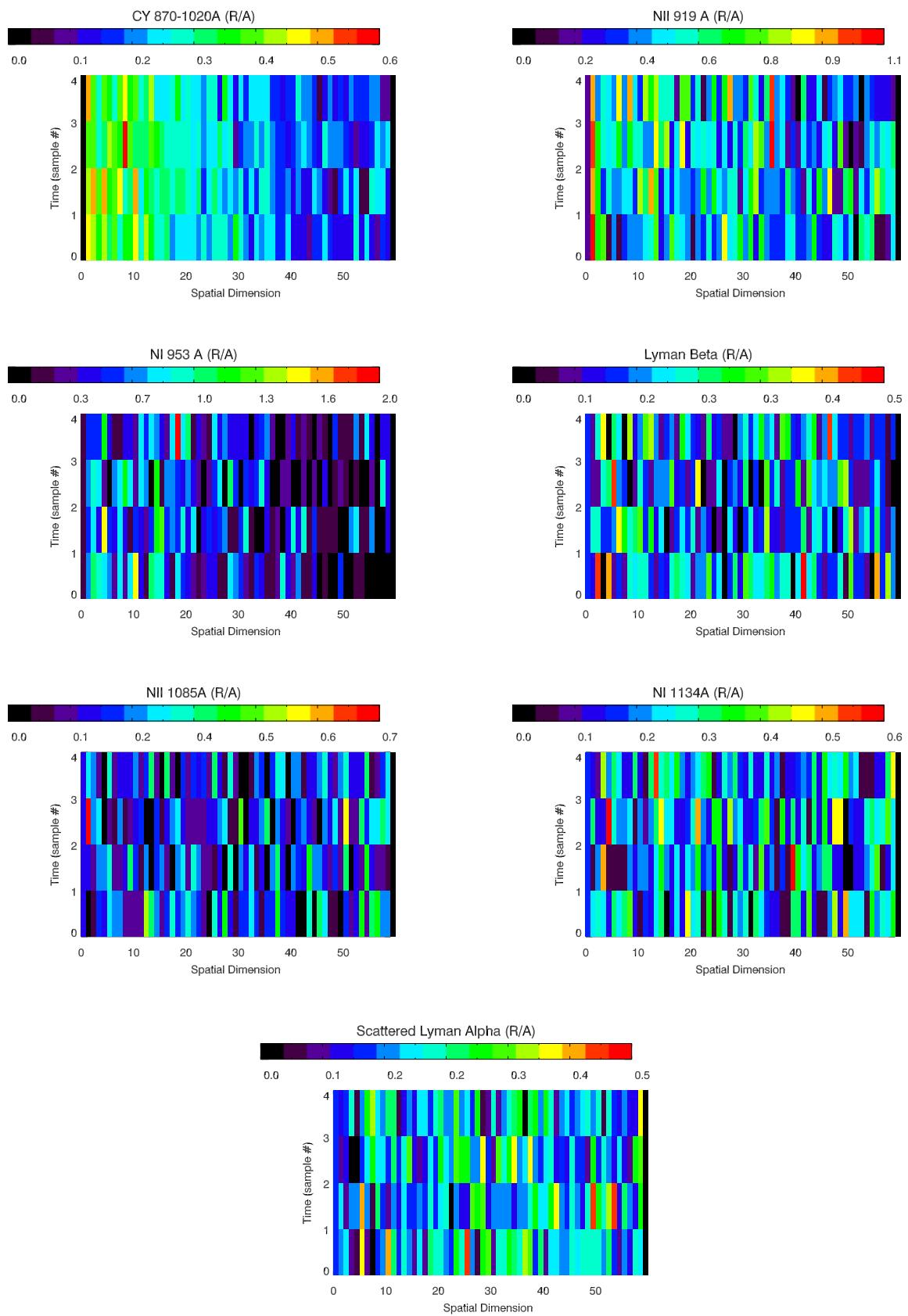


Figure 119: Panel of 7 detector images

FUV2006_140_09_00_30_UVIS_024TI_EUVFUV001_ENGR

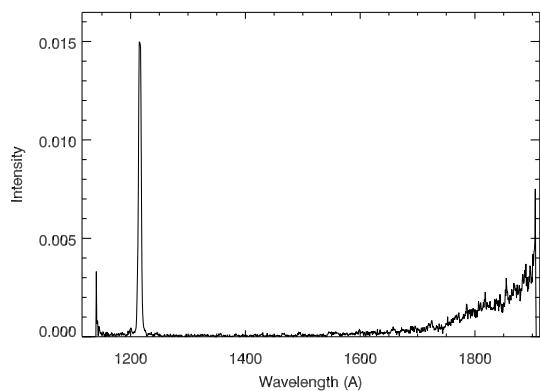


Figure 120: Spectra

body phase angle (deg): 93.7
distance (km): 63899.
Lon sub-s/c (180E): 157.6
Lat sub-s/c: -0.2
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 121: Geometry data

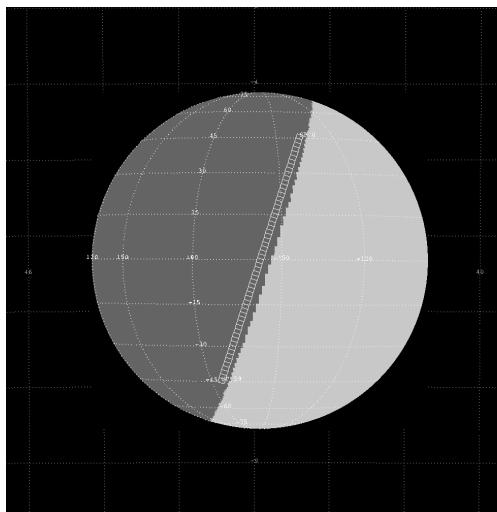


Figure 122: Frame 0

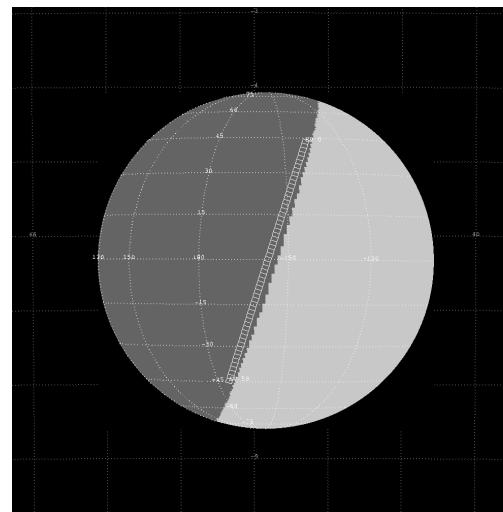


Figure 123: Frame 1

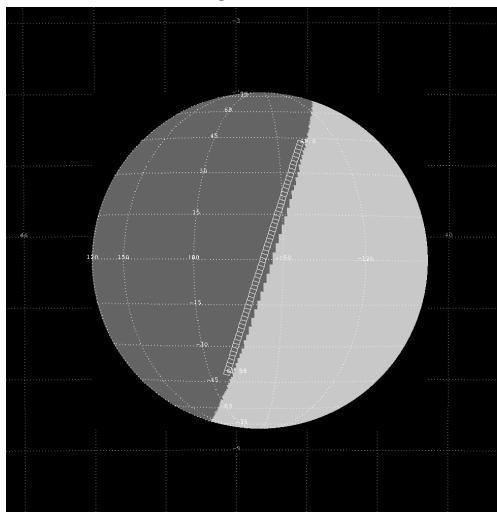


Figure 124: Frame 3

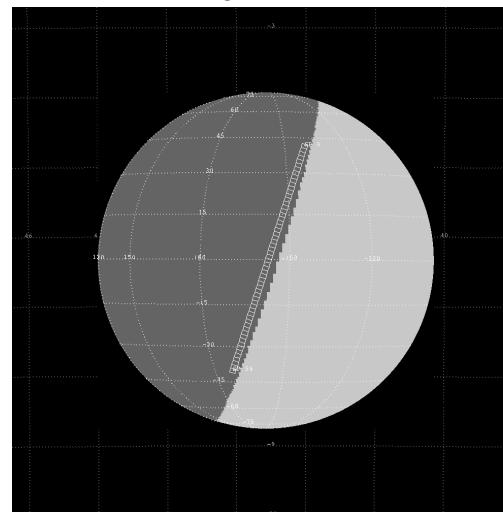


Figure 125: Frame 4

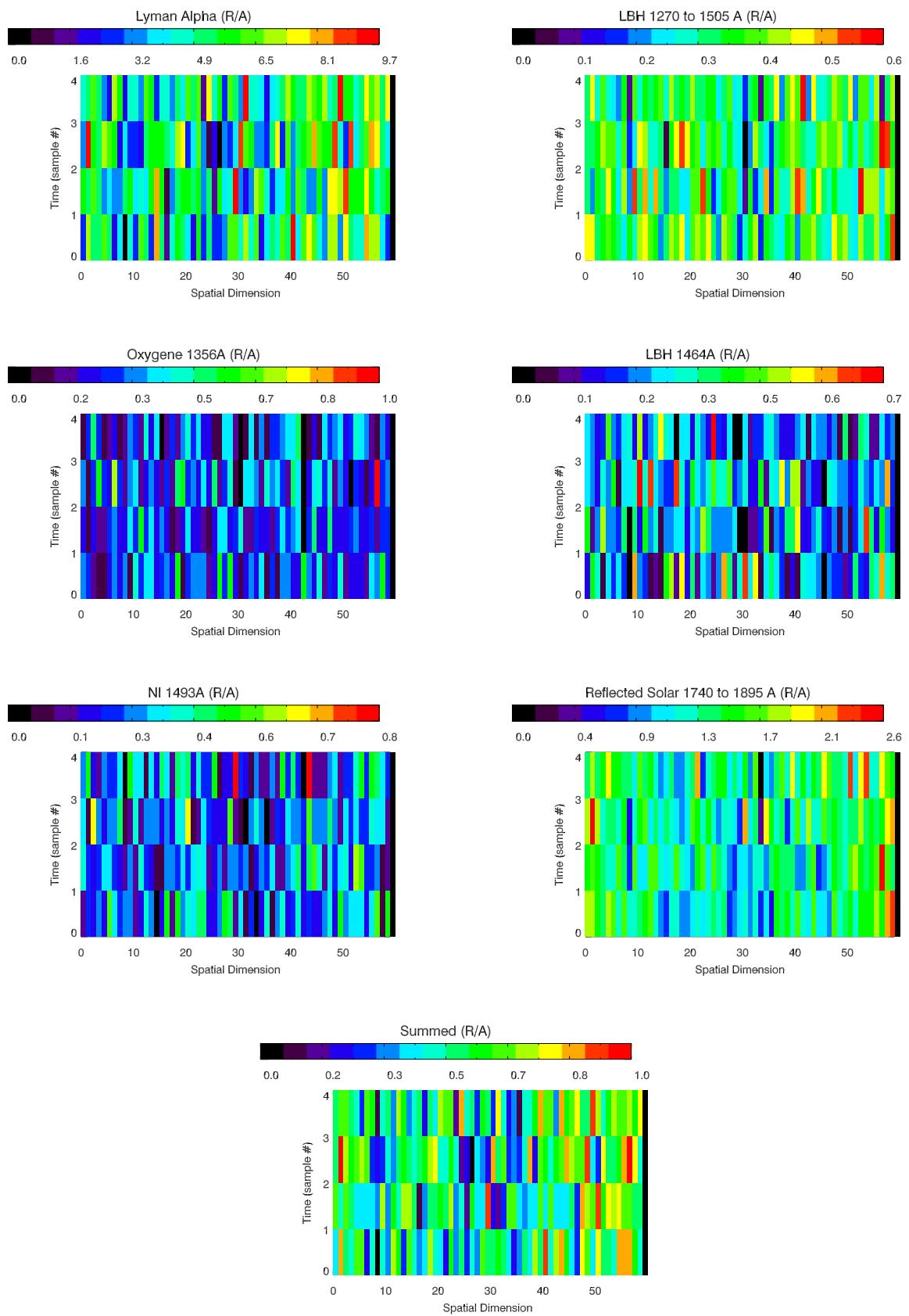


Figure 126: Panel of 7 detector images

EUV2006_140_09_24_14_UVIS_024TI_EUVFUV002_PRIME

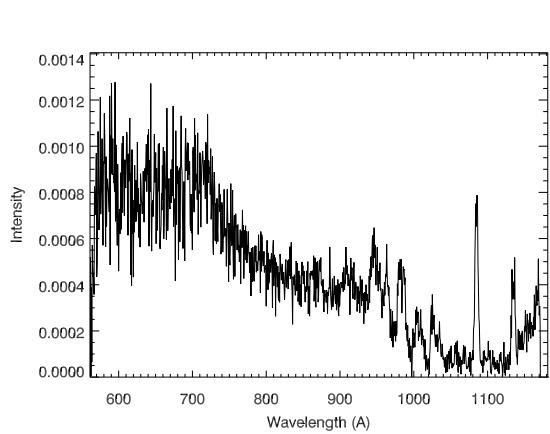


Figure 127: Spectra

body phase angle (deg):	94.3
distance (km):	55407.
Lon sub-s/c (180E):	158.6
Lat sub-s/c:	-0.2
xbin:	1
ybin:	1
xmin:	0
xmax:	1023
ymin:	2
ymax:	61
integration (sec):	240

Figure 128: Geometry data

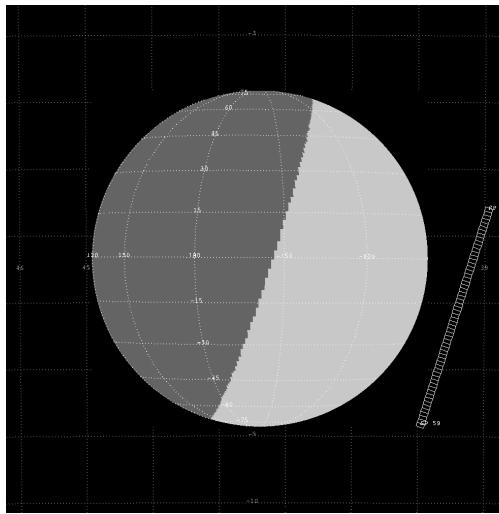


Figure 129: Frame 0

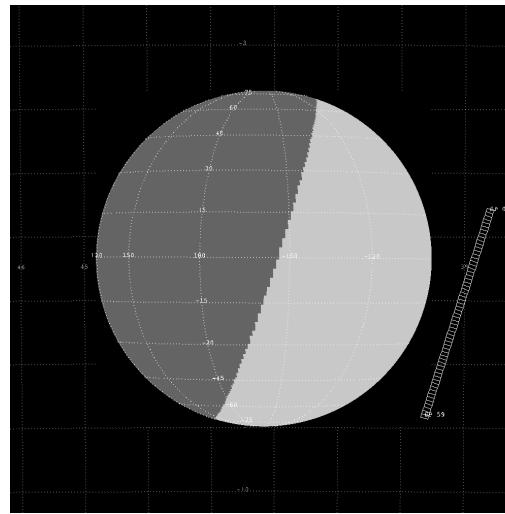


Figure 130: Frame 2

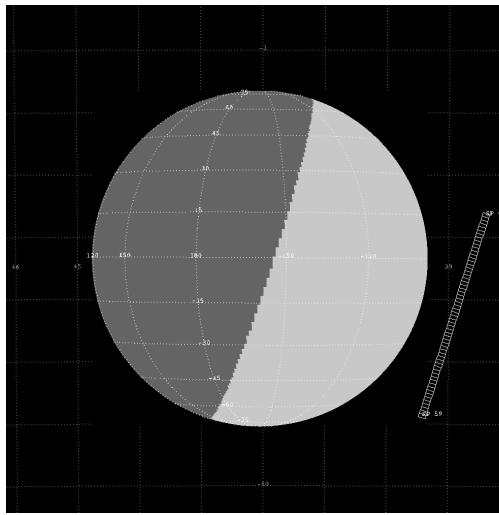


Figure 131: Frame 3

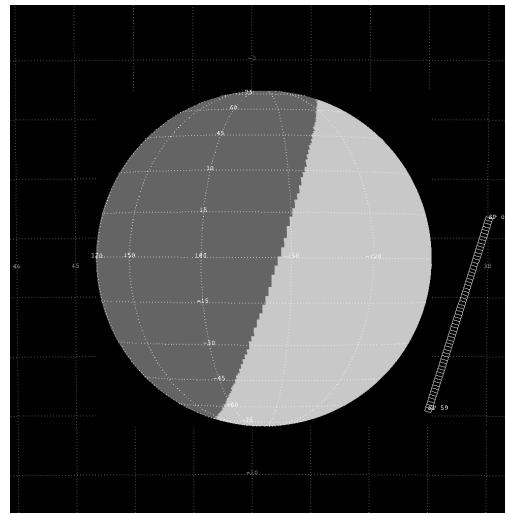


Figure 132: Frame 5

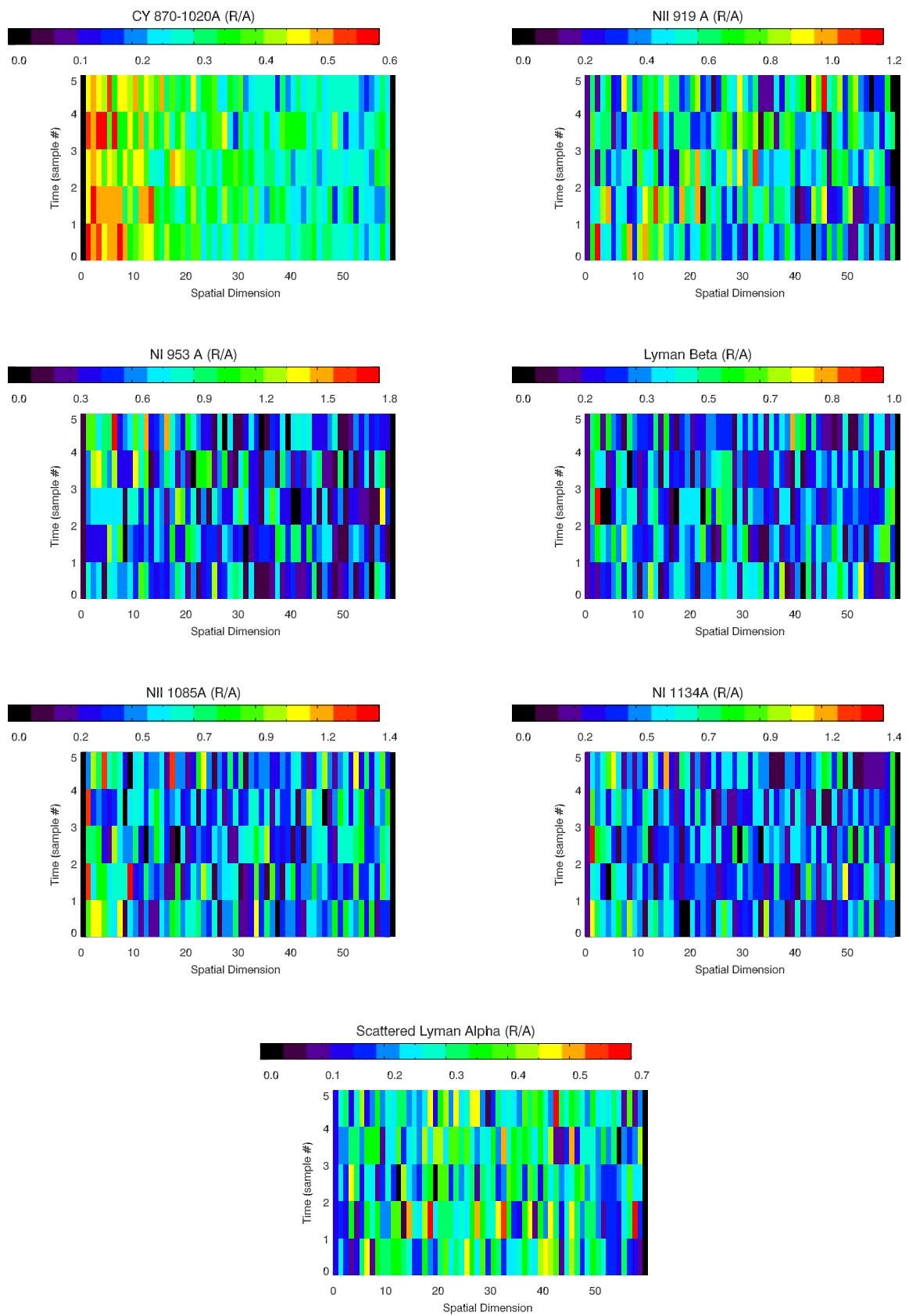


Figure 133: Panel of 7 detector images

FUV2006_140_09_24_14_UVIS_024TI_EUVFUV002_PRIME

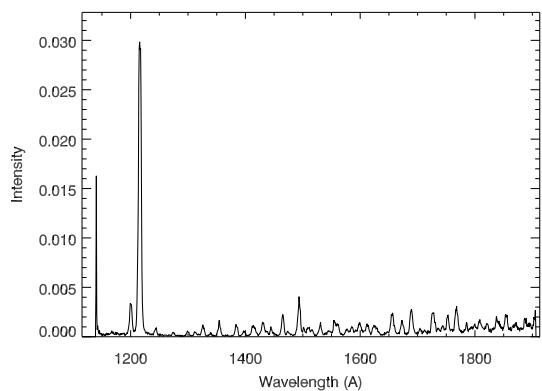


Figure 134: Spectra

body phase angle (deg): 94.3
distance (km): 55407.
Lon sub-s/c (180E): 158.6
Lat sub-s/c: -0.2
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 135: Geometry data

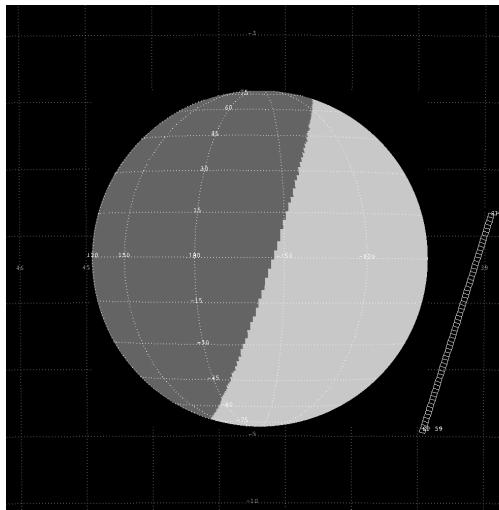


Figure 136: Frame 0

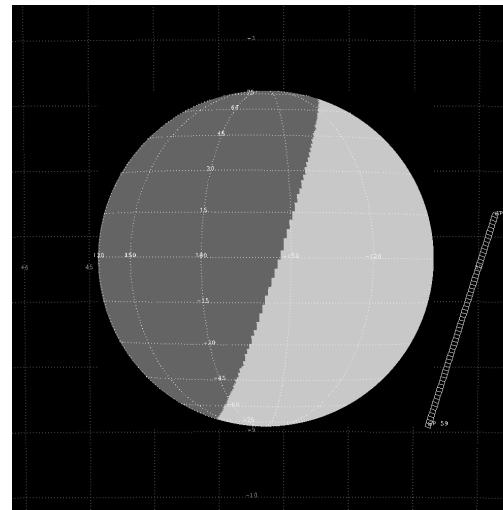


Figure 137: Frame 1

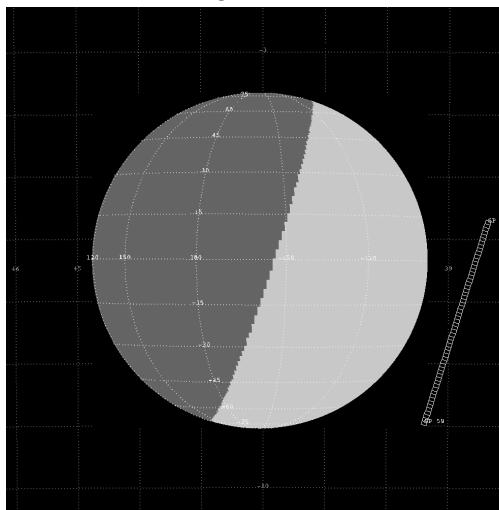


Figure 138: Frame 3

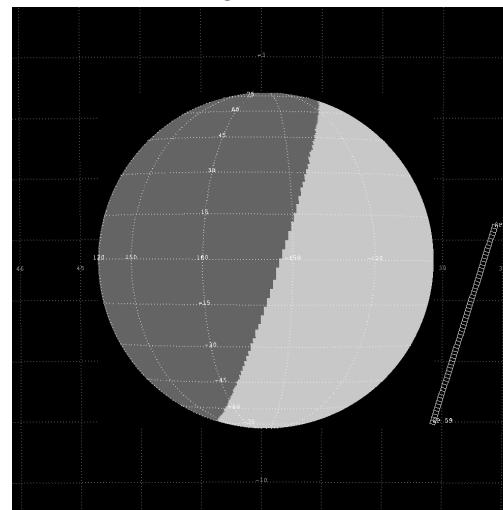


Figure 139: Frame 4

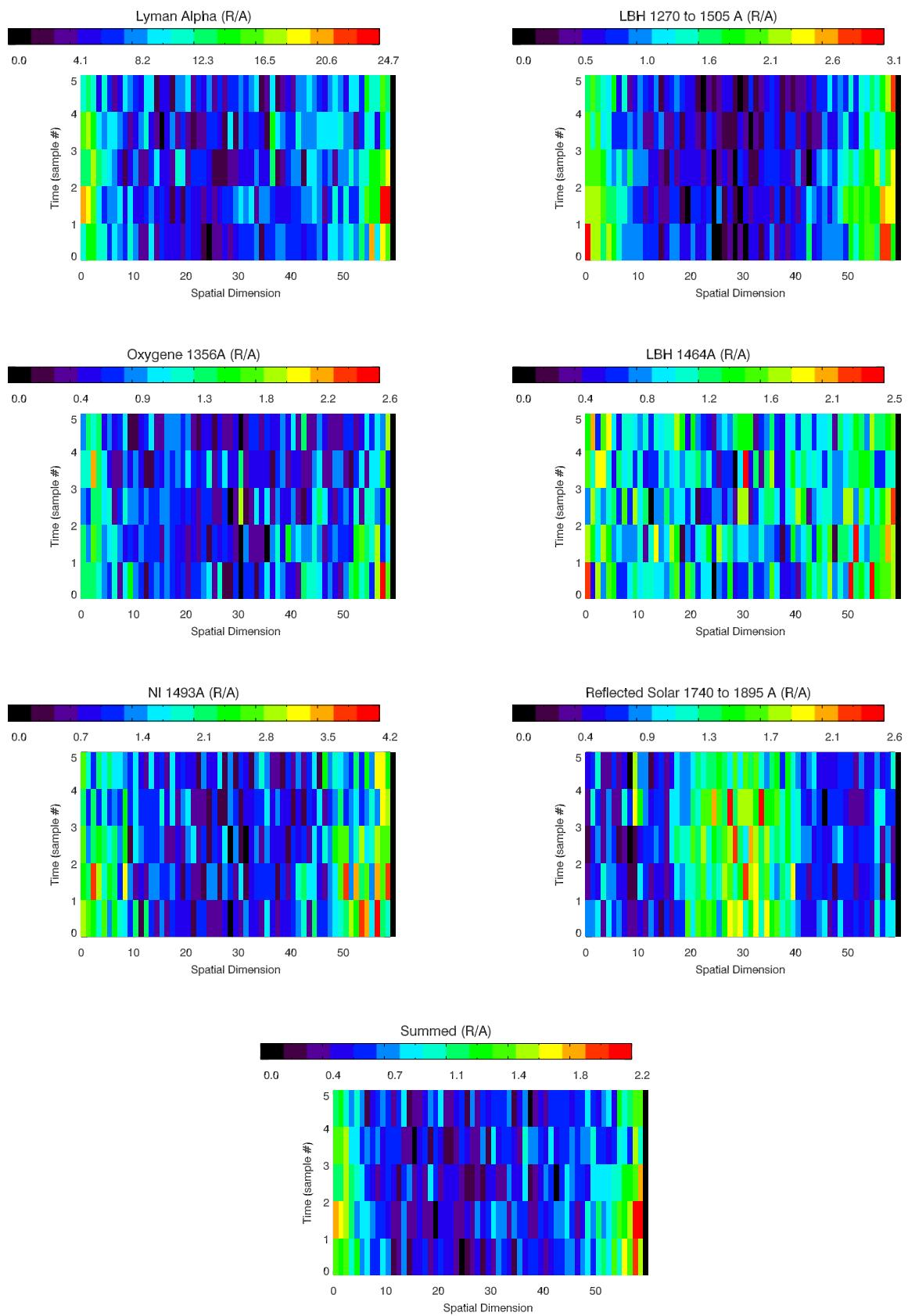


Figure 140: Panel of 7 detector images

EUV2006_183_11_57_46_UVIS_025TI_EUVFUV002_PRIME

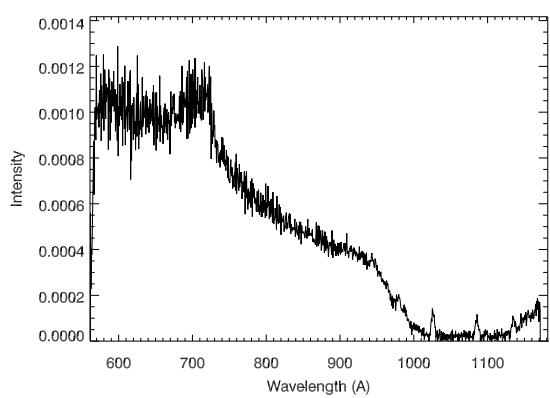


Figure 141: Spectra

body phase angle (deg): 115.9
distance (km): 103589.
Lon sub-s/c (180E): 201.0
Lat sub-s/c: 0.4
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 142: Geometry data

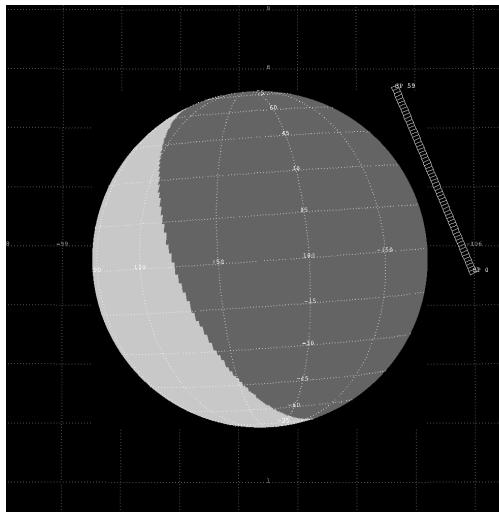


Figure 143: Frame 0

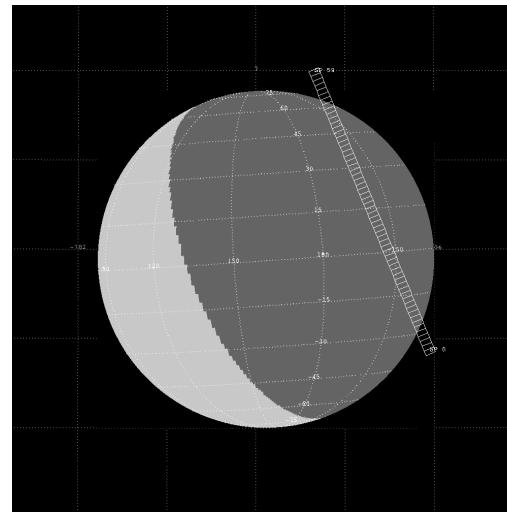


Figure 144: Frame 20

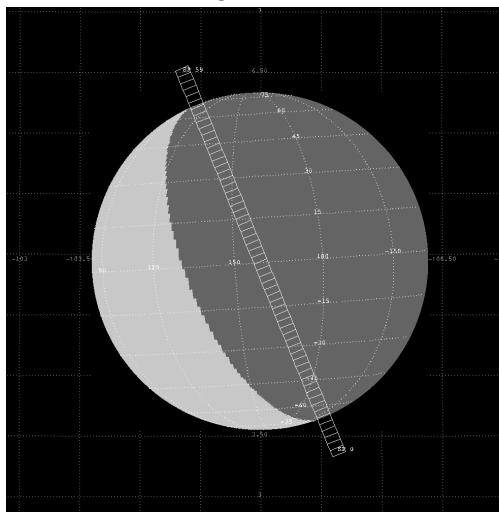


Figure 145: Frame 40

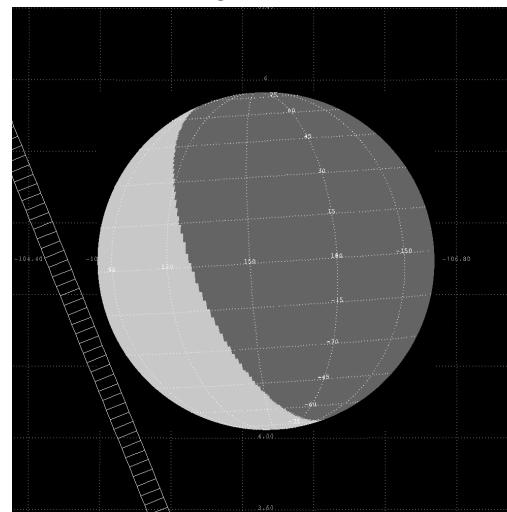


Figure 146: Frame 77

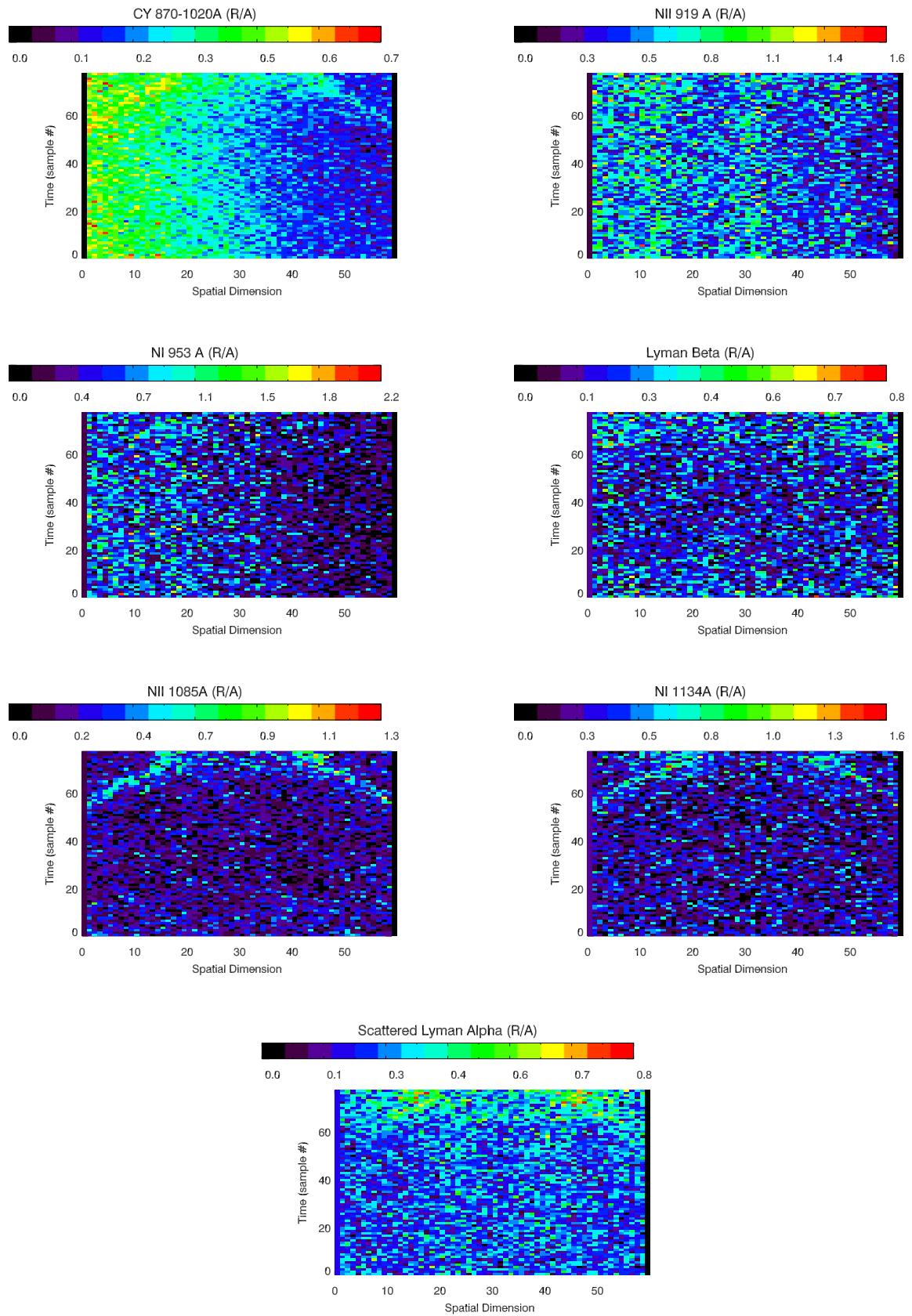


Figure 147: Panel of 7 detector images

FUV2006_183_11_57_46_UVIS_025TI_EUVFUV002_PRIME

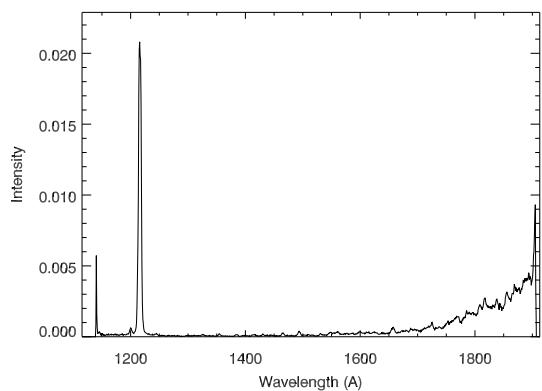


Figure 148: Spectra

body phase angle (deg): 115.9
distance (km): 103589.
Lon sub-s/c (180E): 201.0
Lat sub-s/c: 0.4
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 149: Geometry data

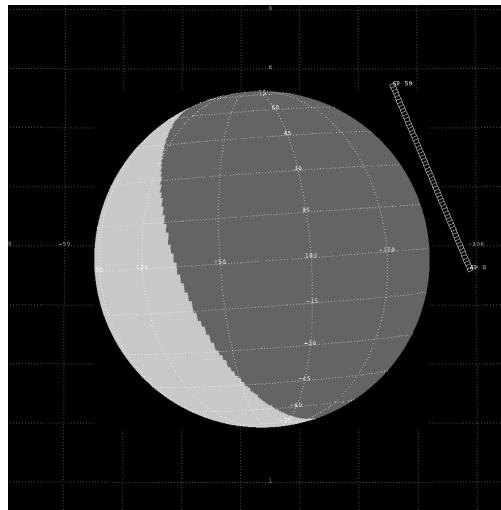


Figure 150: Frame 0

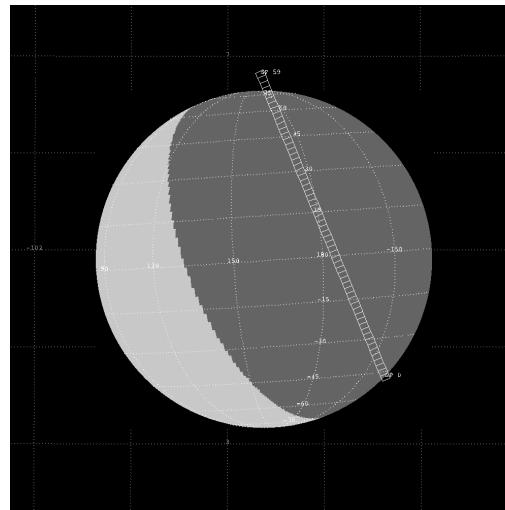


Figure 151: Frame 25

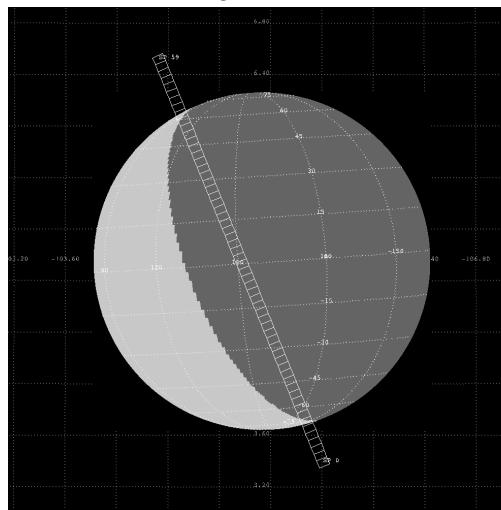


Figure 152: Frame 45

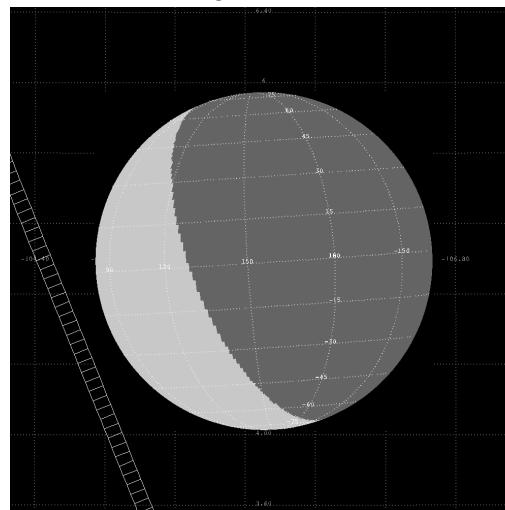


Figure 153: Frame 75

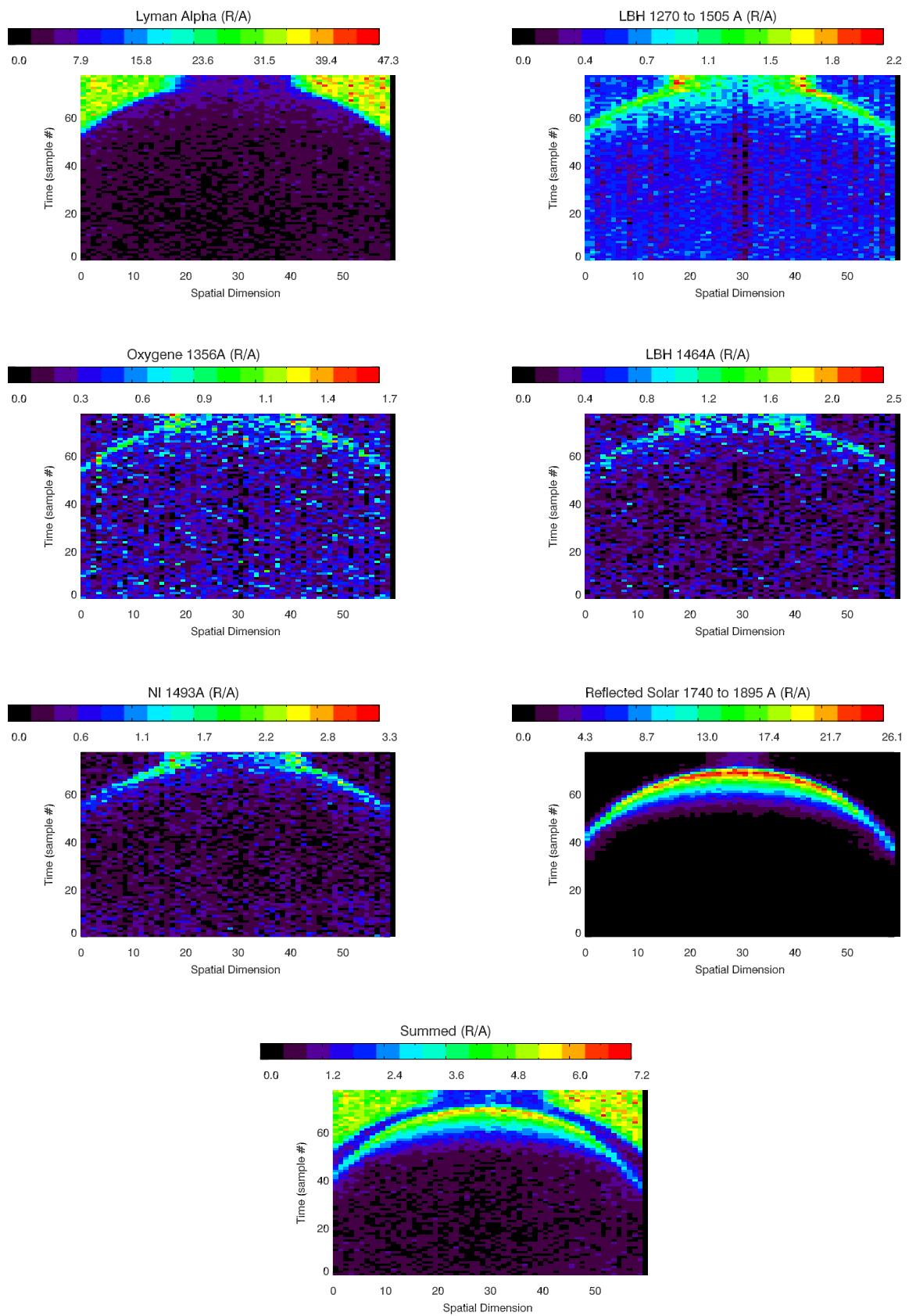


Figure 154: Panel of 7 detector images

EUV2006_250_12_52_22_UVIS_028TI_EUVFUV001_PRIME

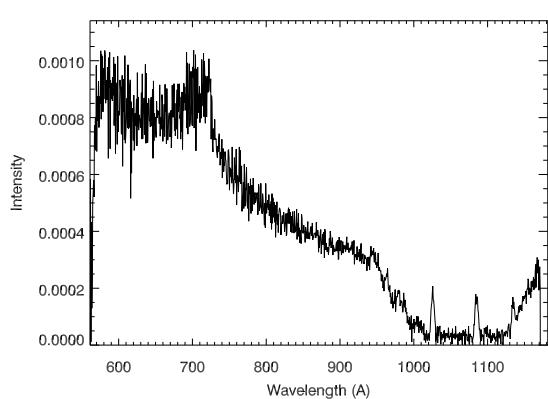


Figure 155: Spectra

body phase angle (deg): 120.8
distance (km): 104465.
Lon sub-s/c (180E): 148.3
Lat sub-s/c: 9.5
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 156: Geometry data

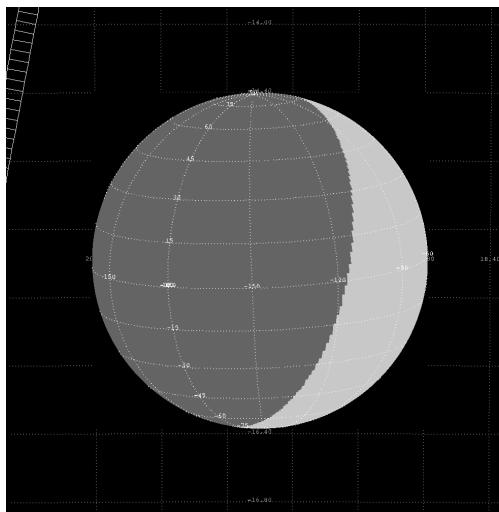


Figure 157: Frame 0

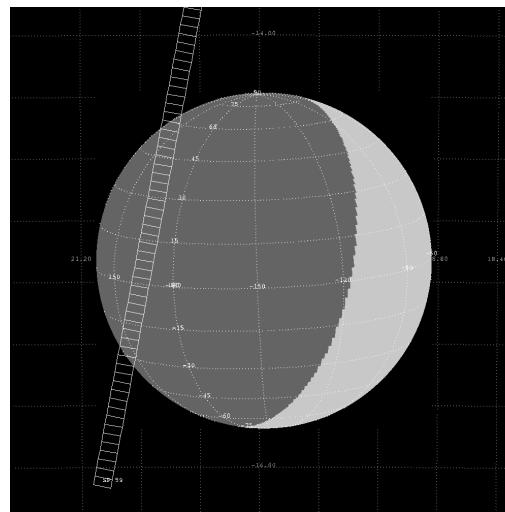


Figure 158: Frame 10

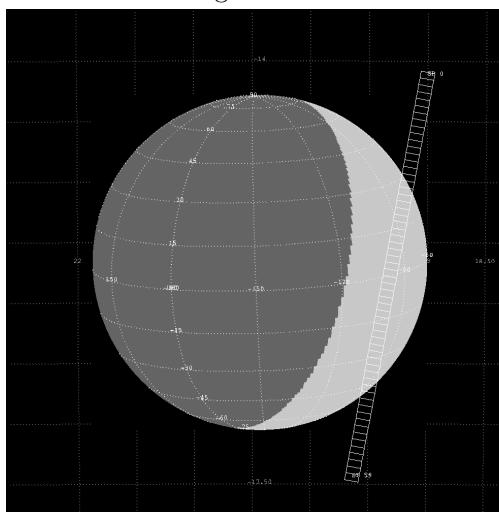


Figure 159: Frame 30

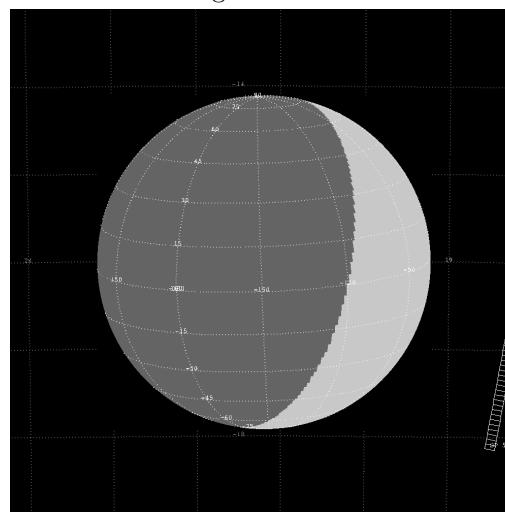


Figure 160: Frame 50

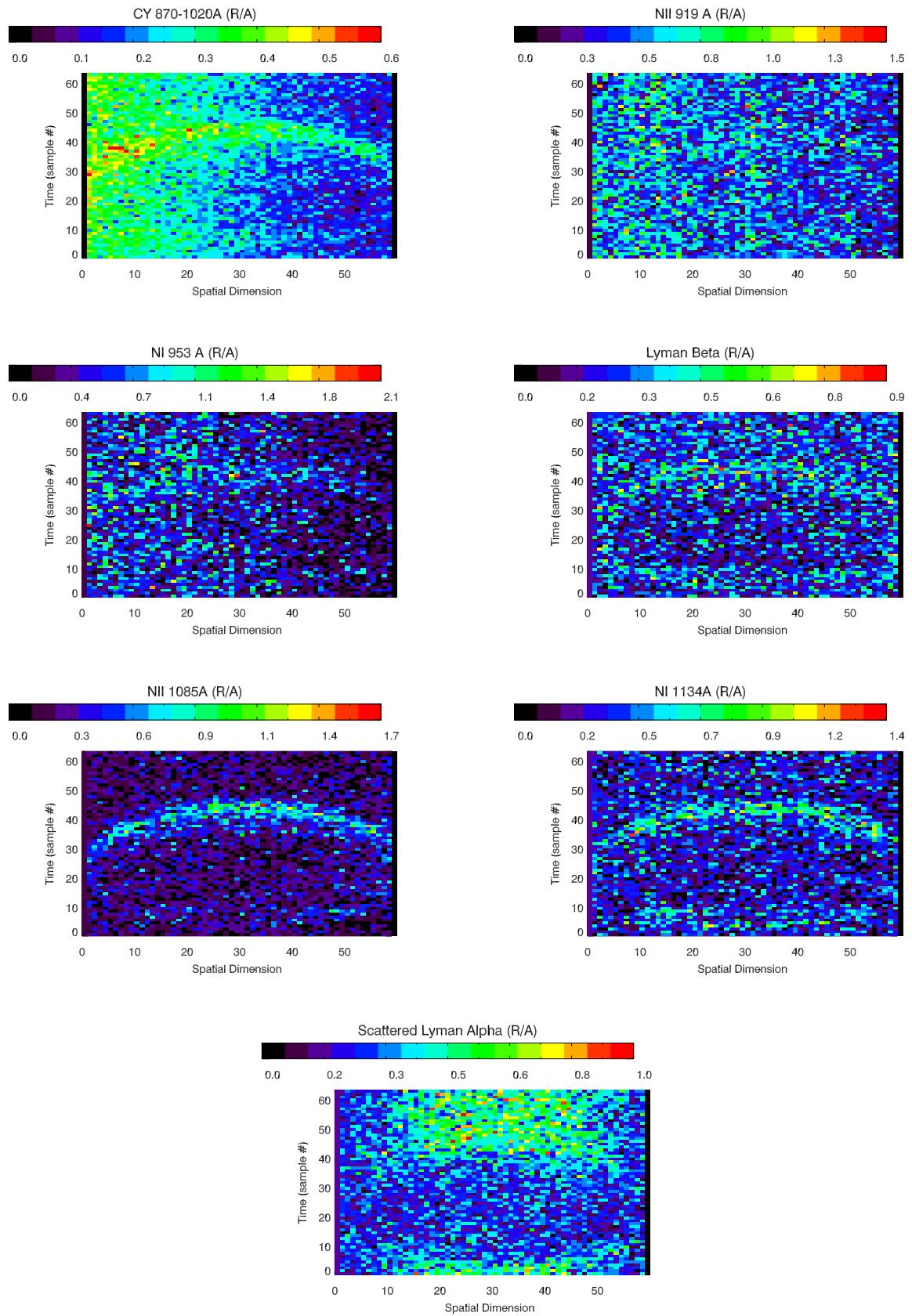


Figure 161: Panel of 7 detector images

FUV2006_250_12_52_22_UVIS_028TI_EUVFUV001_PRIME

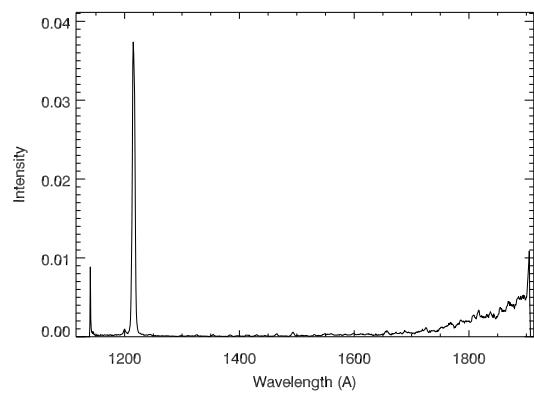


Figure 162: Spectra

body phase angle (deg): 120.8
distance (km): 104465.
Lon sub-s/c (180E): 148.3
Lat sub-s/c: 9.5
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 163: Geometry data

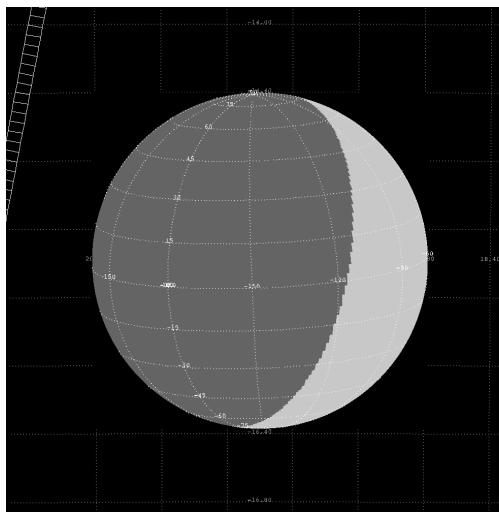


Figure 164: Frame 0

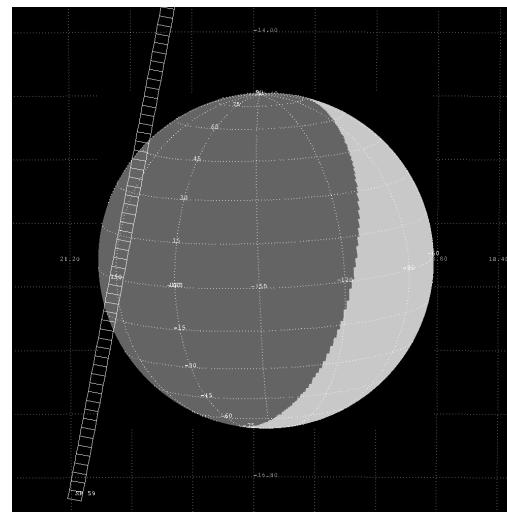


Figure 165: Frame 7

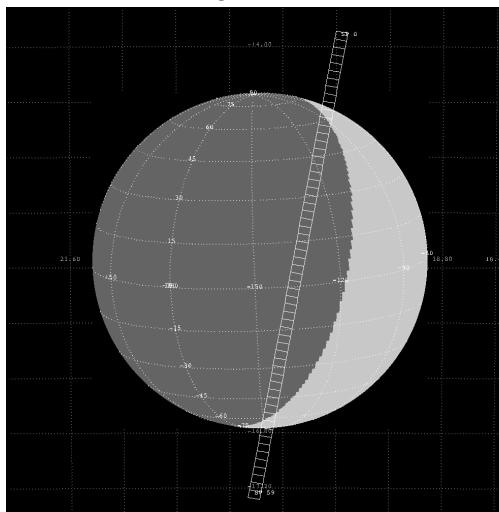


Figure 166: Frame 20

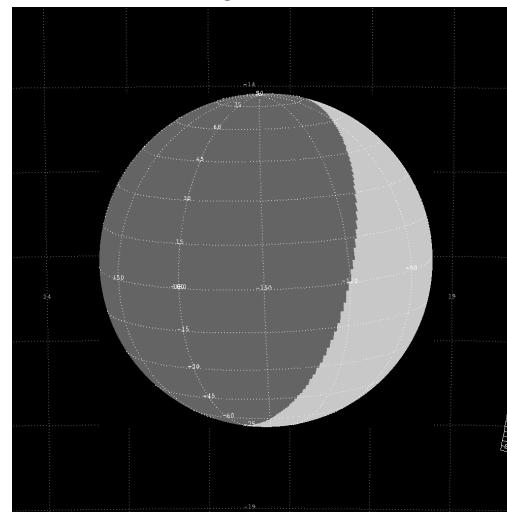


Figure 167: Frame 52

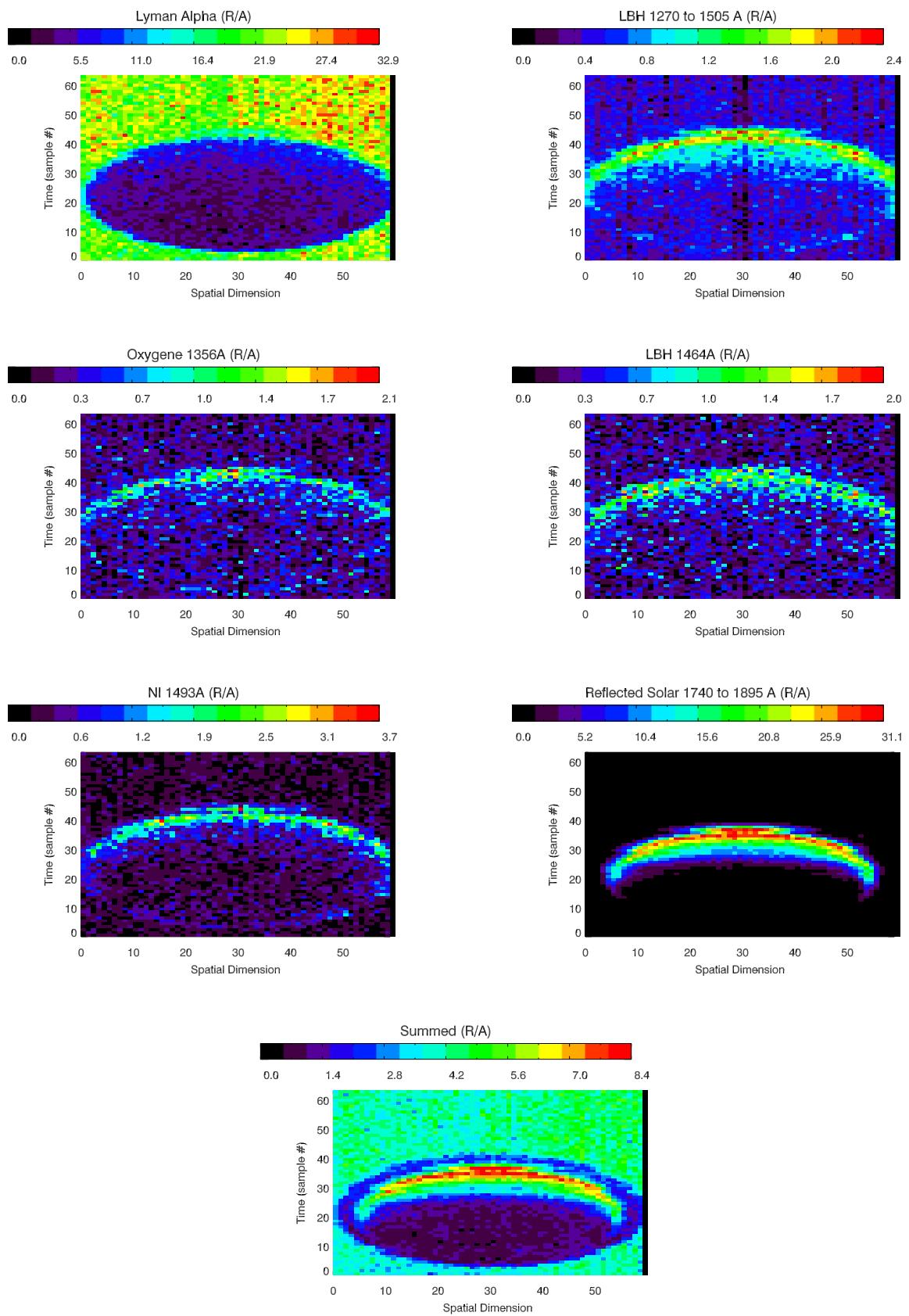


Figure 168: Panel of 7 detector images

EUV2006_266_11_34_29_UVIS_029TI_EUVFUV001_PRIME

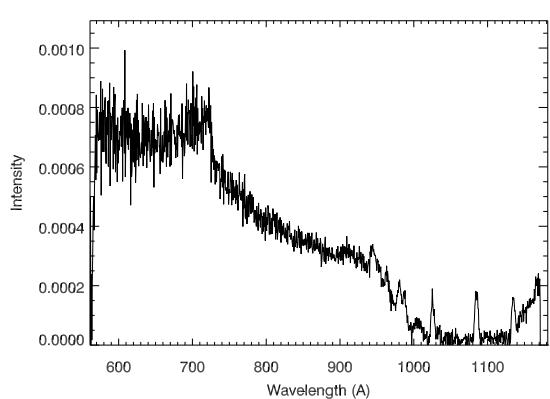


Figure 169: Spectra

body phase angle (deg): 116.0
distance (km): 105826.
Lon sub-s/c (180E): 141.7
Lat sub-s/c: 14.2
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 170: Geometry data

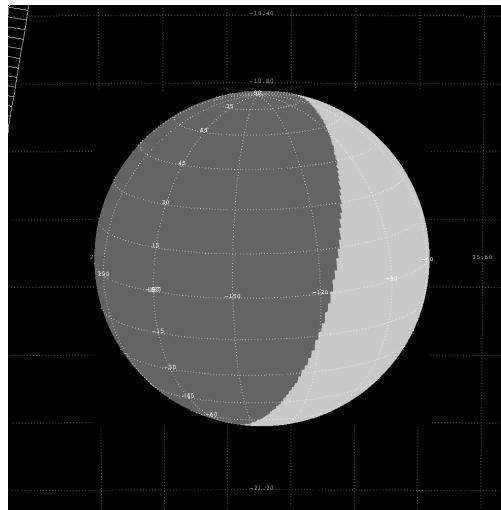


Figure 171: Frame 0

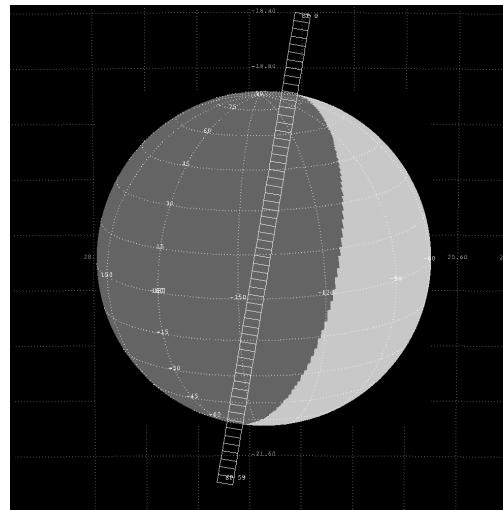


Figure 172: Frame 20

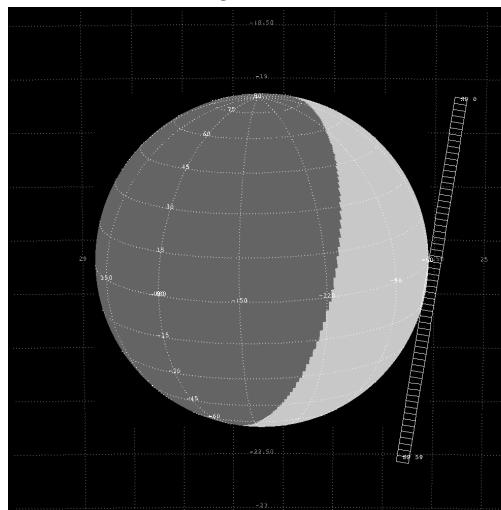


Figure 173: Frame 40

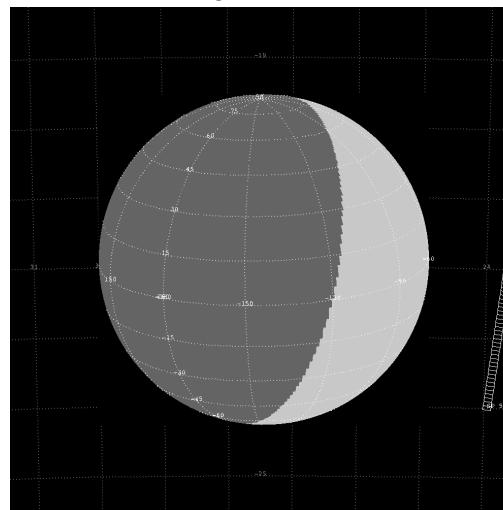


Figure 174: Frame 64

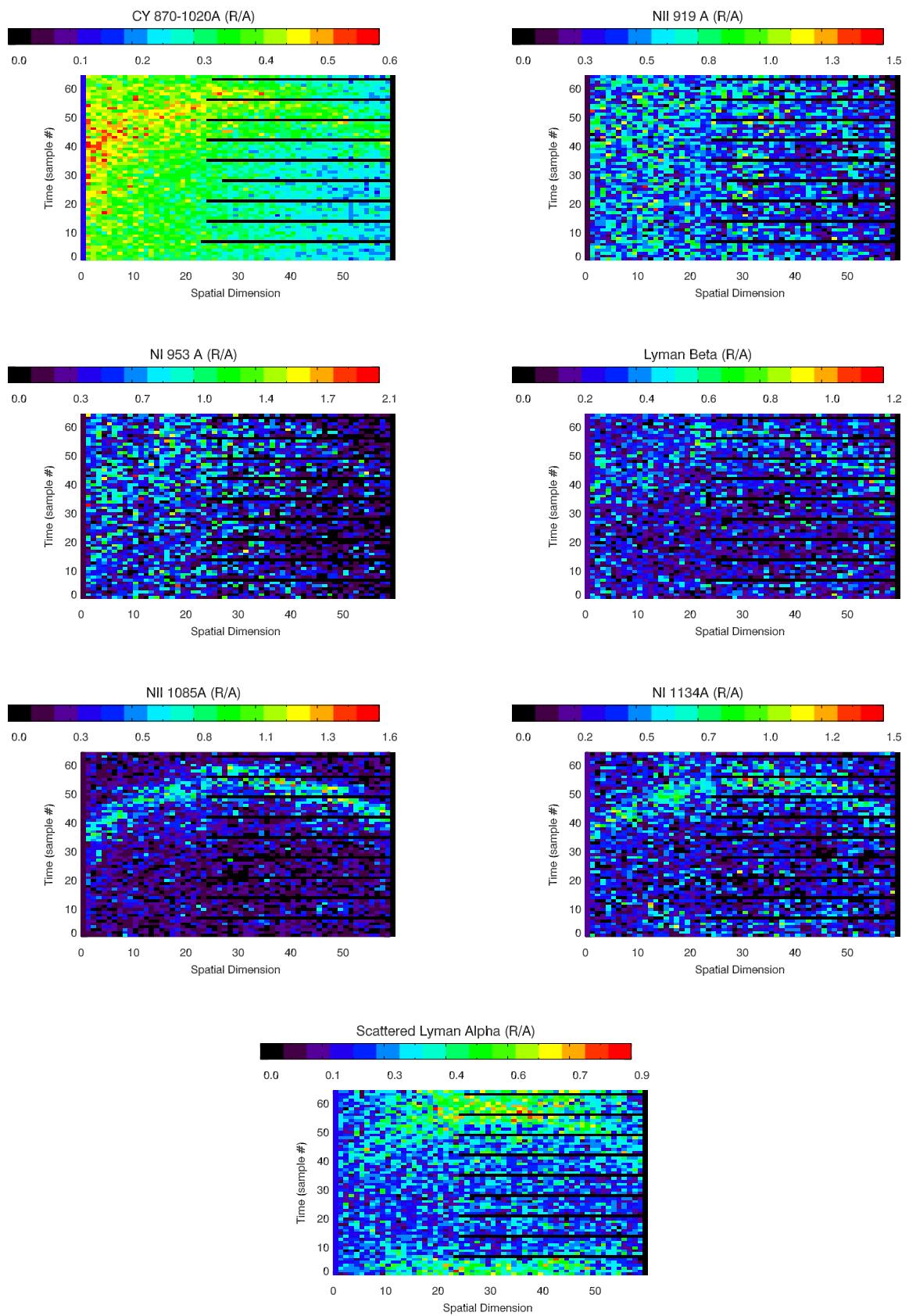


Figure 175: Panel of 7 detector images

FUV2006_266_11_34_29_UVIS_029TI_EUVFUV001_PRIME

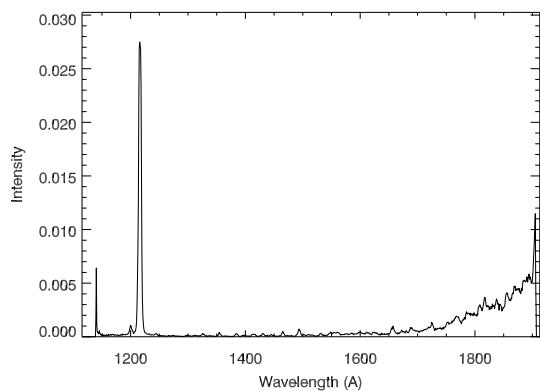
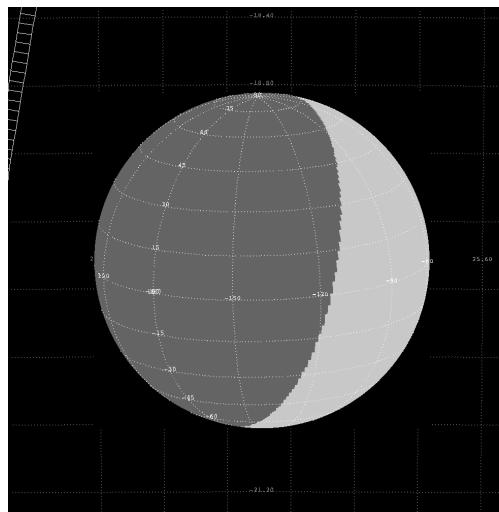


Figure 176: Spectra

body phase angle (deg): 116.0
distance (km): 105826.
Lon sub-s/c (180E): 141.7
Lat sub-s/c: 14.2
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 177: Geometry data



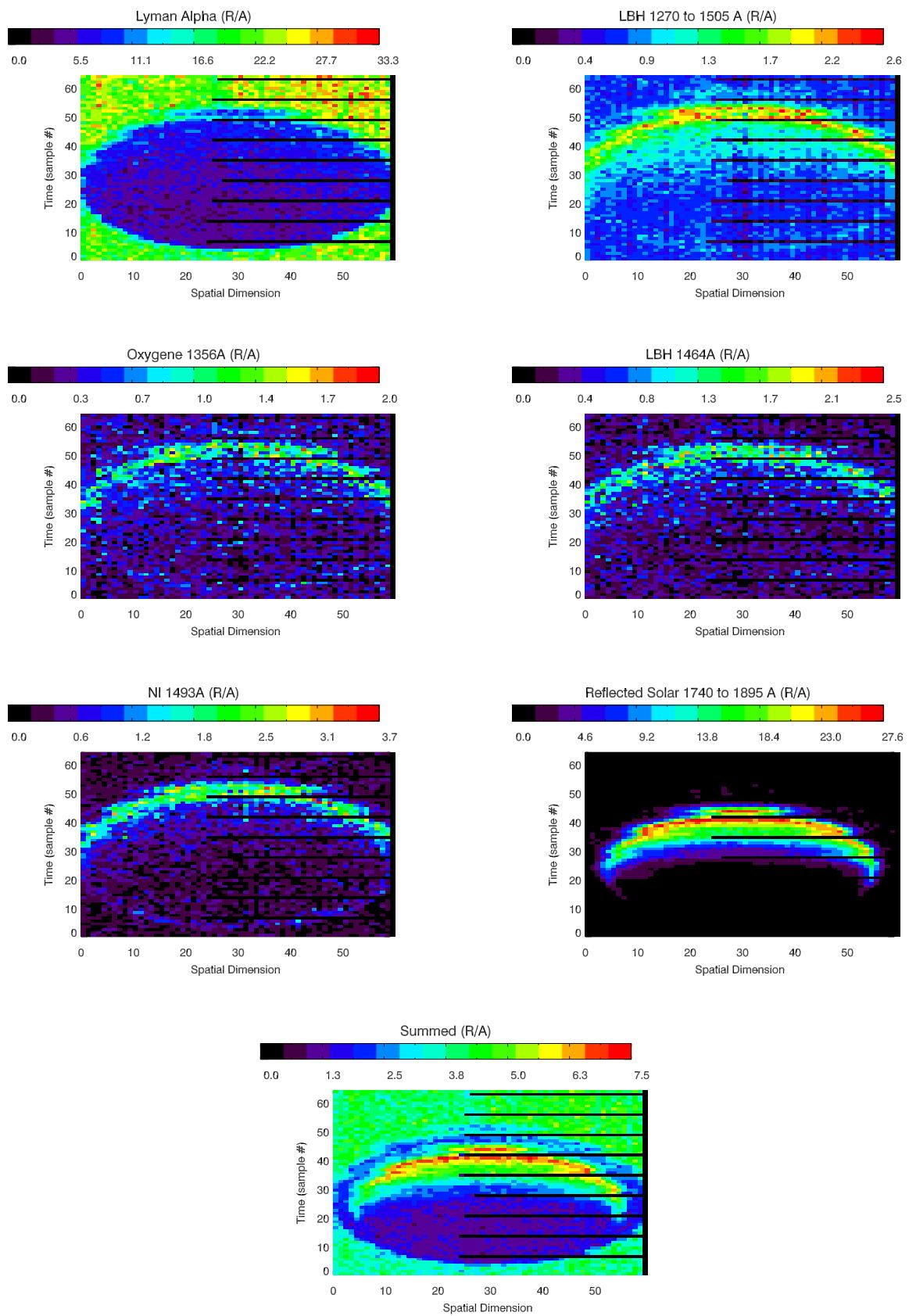


Figure 182: Panel of 7 detector images

EUV2006_346_04_17_34_UVIS_035TI_EUVFUV001_PRIME

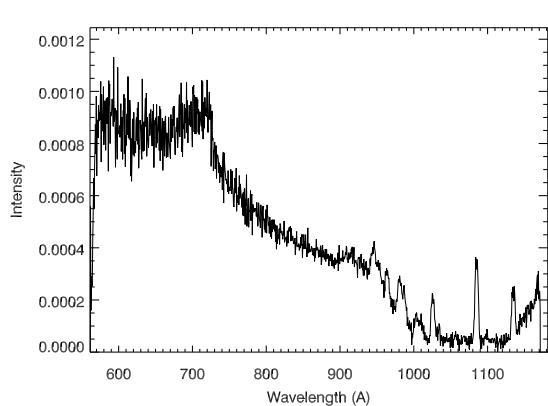


Figure 183: Spectra

body phase angle (deg): 109.6
distance (km): 100581.
Lon sub-s/c (180E): 129.3
Lat sub-s/c: 32.1
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 184: Geometry data

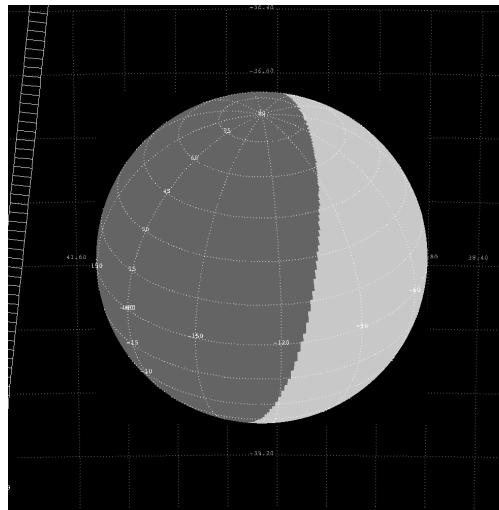


Figure 185: Frame 5

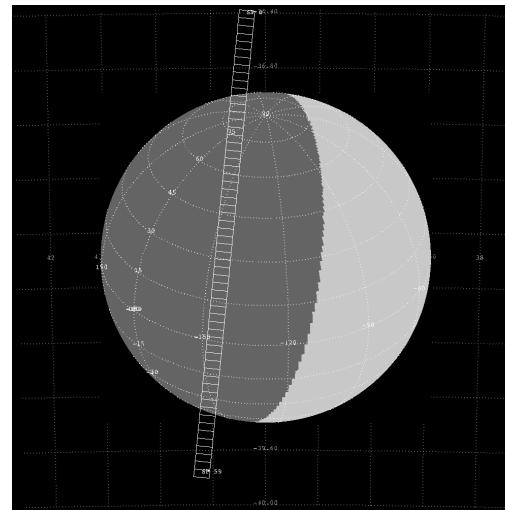


Figure 186: Frame 20

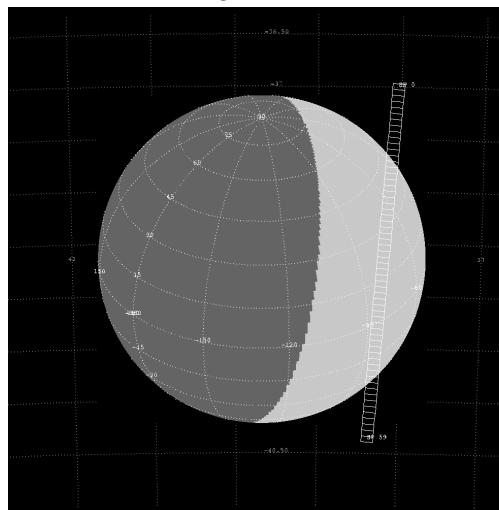


Figure 187: Frame 40

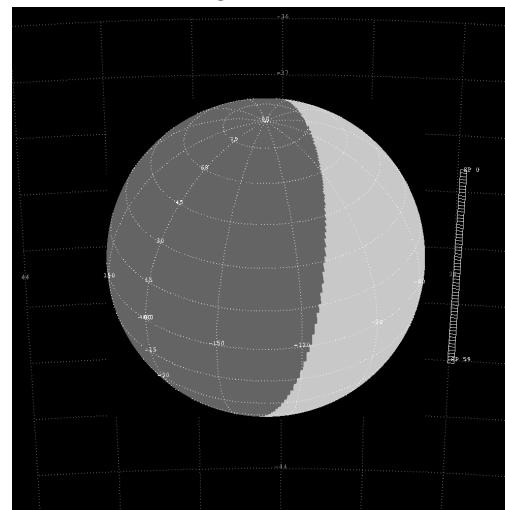


Figure 188: Frame 71

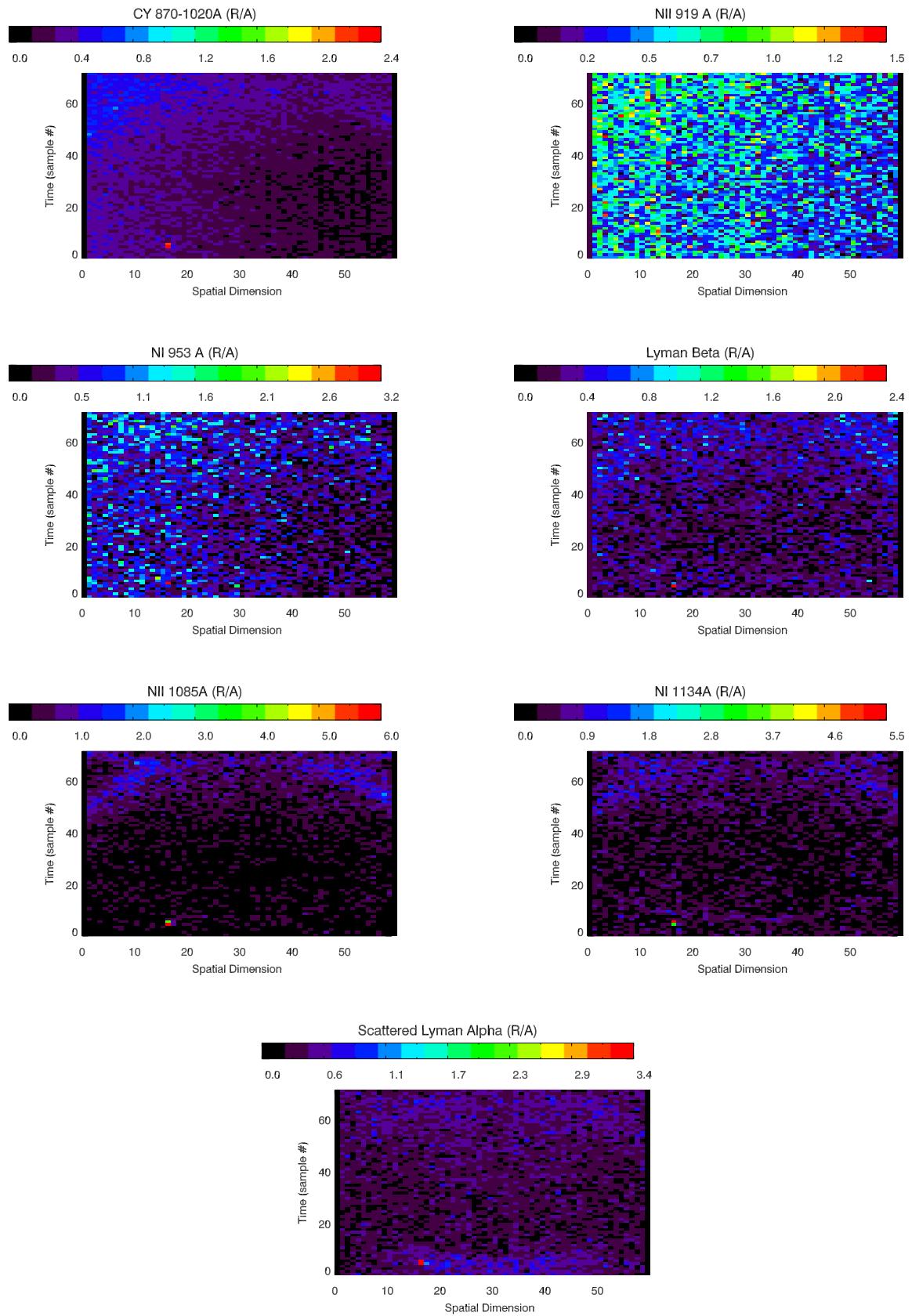


Figure 189: Panel of 7 detector images

FUV2006_346_04_17_34_UVIS_035TI_EUVFUV001_PRIME

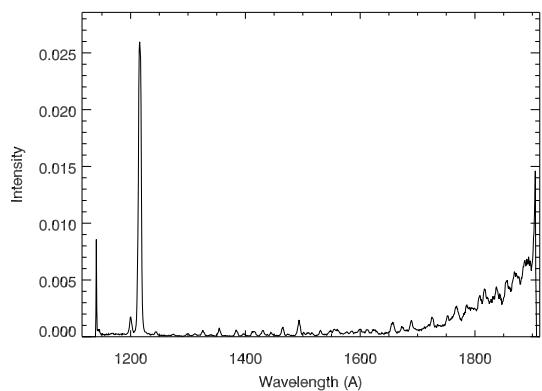


Figure 190: Spectra

body phase angle (deg): 109.6
distance (km): 100581.
Lon sub-s/c (180E): 129.3
Lat sub-s/c: 32.1
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 191: Geometry data

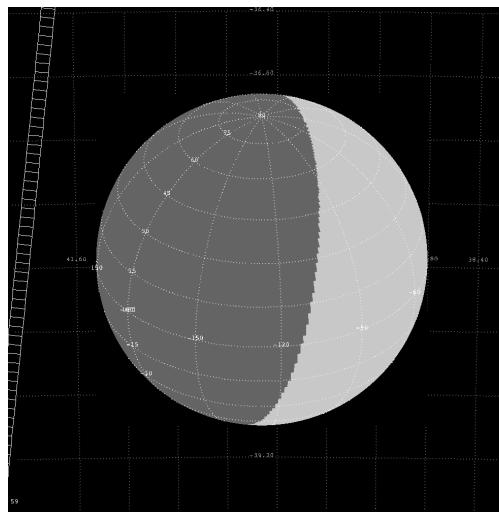


Figure 192: Frame 5

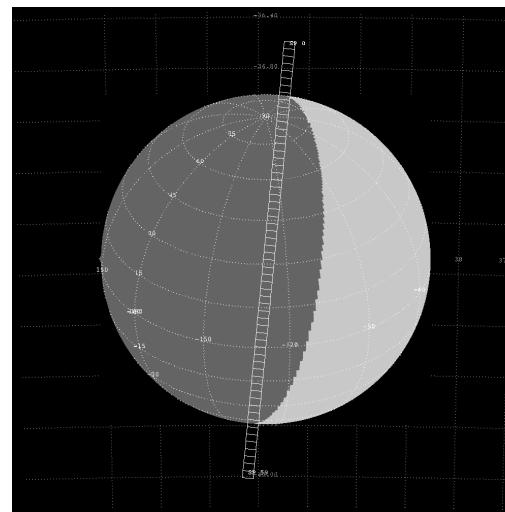


Figure 193: Frame 25

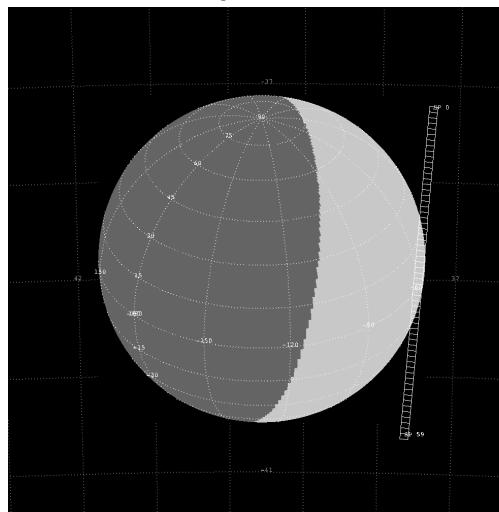


Figure 194: Frame 45

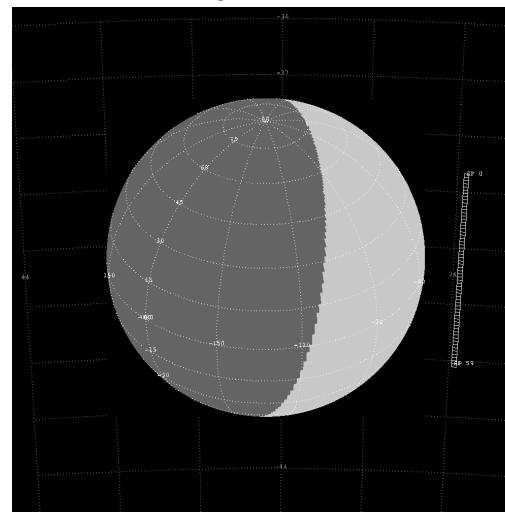


Figure 195: Frame 71

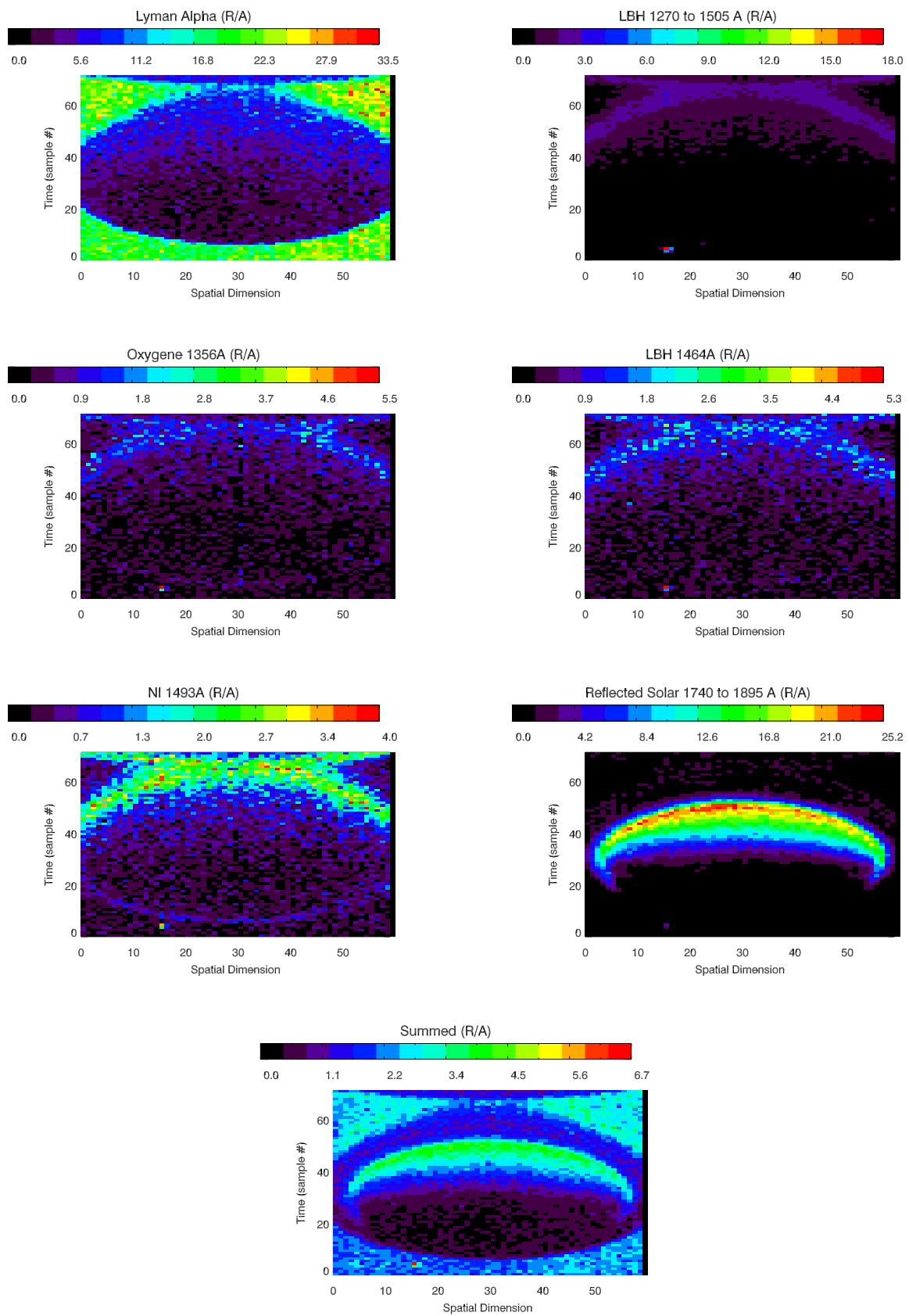


Figure 196: Panel of 7 detector images

Year 2007

Brief descriptif of observations:

- Day 028: Dayglow, faint nightglow (enhanced at anti-solar point?)
- Day 069: Dayglow. Multiples bright objects seen in the background, which do not appear in Lyman-Alpha. It must be different kinds of objects because they do not all react the same in reflected light.
- Day 084: Dayglow
- Day 085: Dayglow, no nightglow
- Day 132: Dayglow and twilight glow
- Day 148: Dayglow and bright object in background in FUV
- Day 164: T32 flyby - Enhanced airglow emission during 10 to 15 minutes on both limbs.s
- Day 180: Curious EUV pattern. It doesn't seem to be the limb that glows. Bright object further out
- Day 199: Dayglow and faint nightglow
- Day 199-2: only 4 samples, solar reflected light
- Day 274: Dayglow and quite bright nightglow
- Day 338: Dayglow, twilight glow and nightglow. And two bright objects at the limb, one of which doesn't reflect solar light

EUV2007_028_22_35_58_UVIS_038TI_EUVFUV001_PRIME

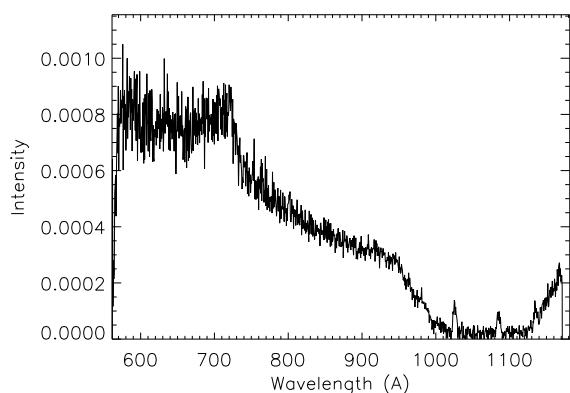


Figure 197: Spectra

body phase angle (deg): 104.0
distance (km): 124805.
Lon sub-s/c (180E): 116.7
Lat sub-s/c: 53.4
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 230

Figure 198: Geometry data

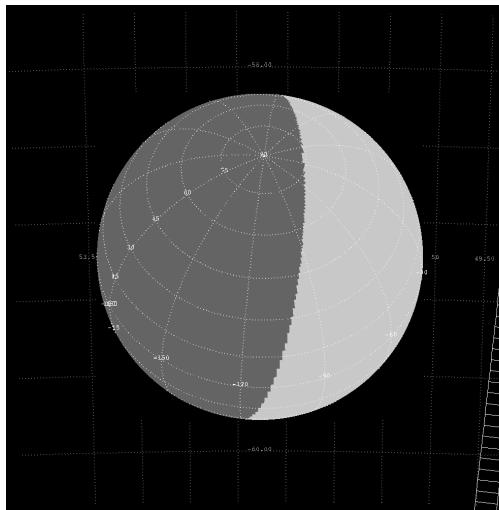


Figure 199: Frame 0

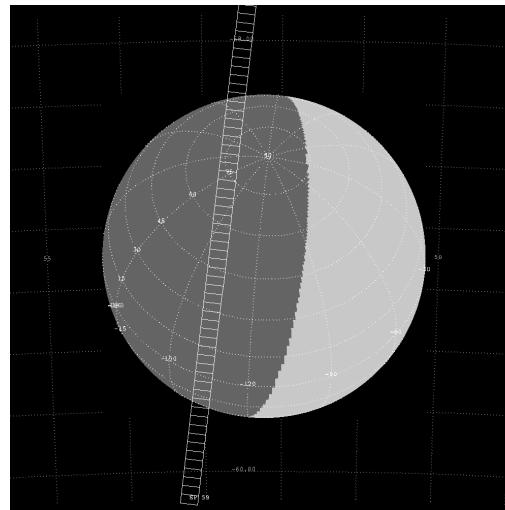


Figure 200: Frame 25

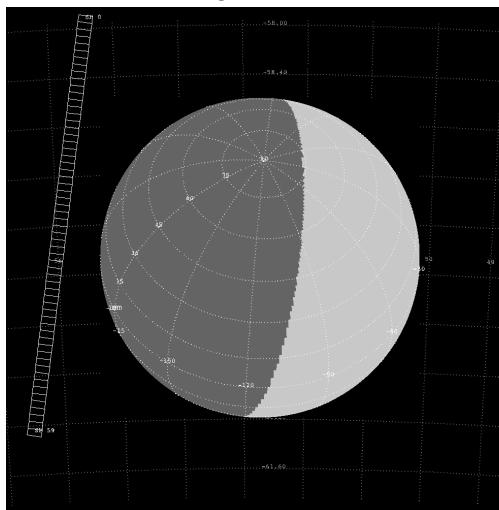


Figure 201: Frame 45

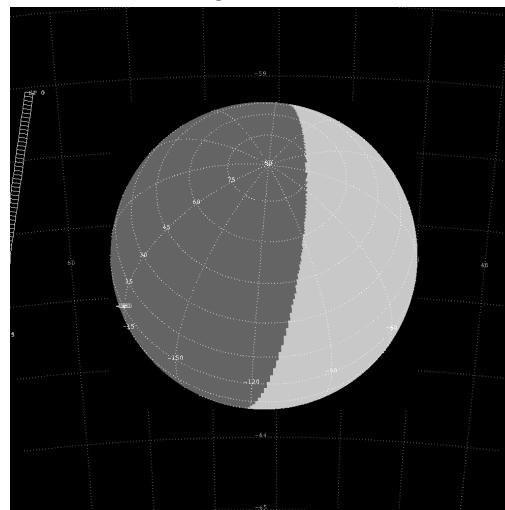


Figure 202: Frame 73

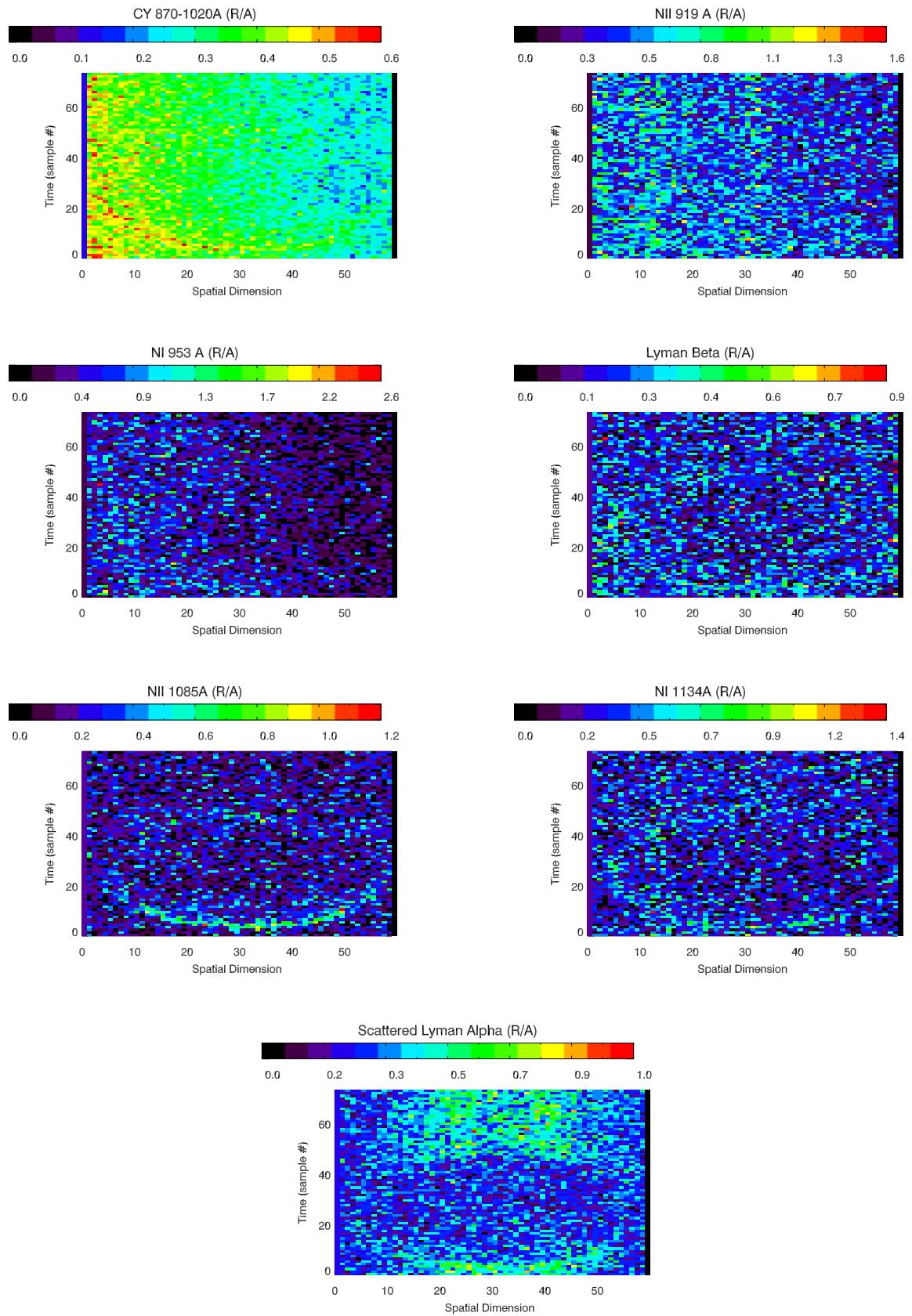


Figure 203: Panel of 7 detector images

FUV2007_028_22_35_58_UVIS_038TI_EUVFUV001_PRIME

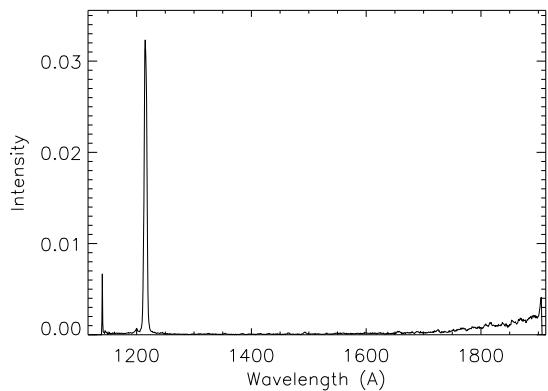


Figure 204: Spectra

body phase angle (deg): 104.0
distance (km): 124805.
Lon sub-s/c (180E): 116.7
Lat sub-s/c: 53.4
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 230

Figure 205: Geometry data

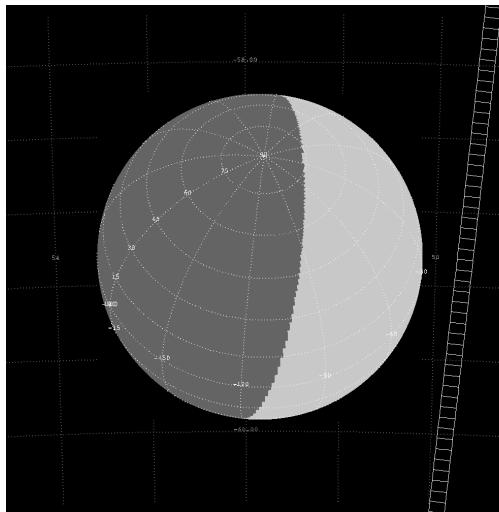


Figure 206: Frame 5

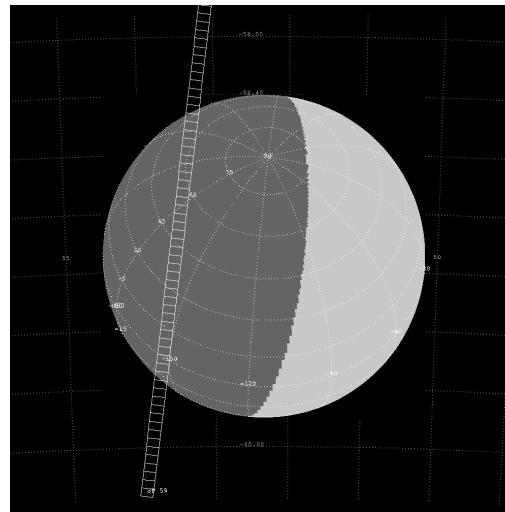


Figure 207: Frame 30

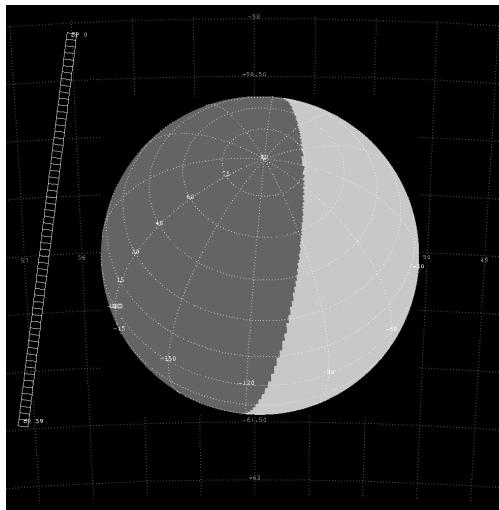


Figure 208: Frame 50

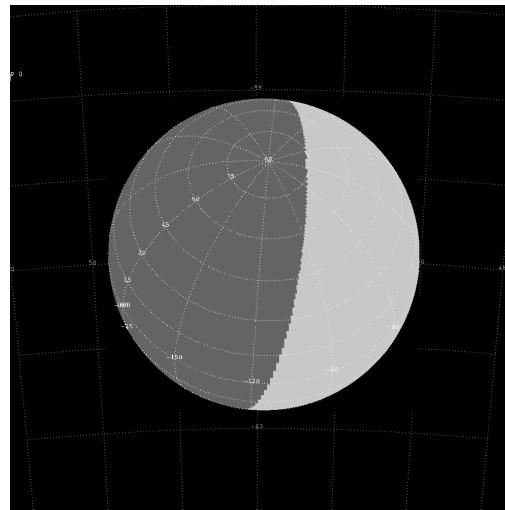


Figure 209: Frame 70

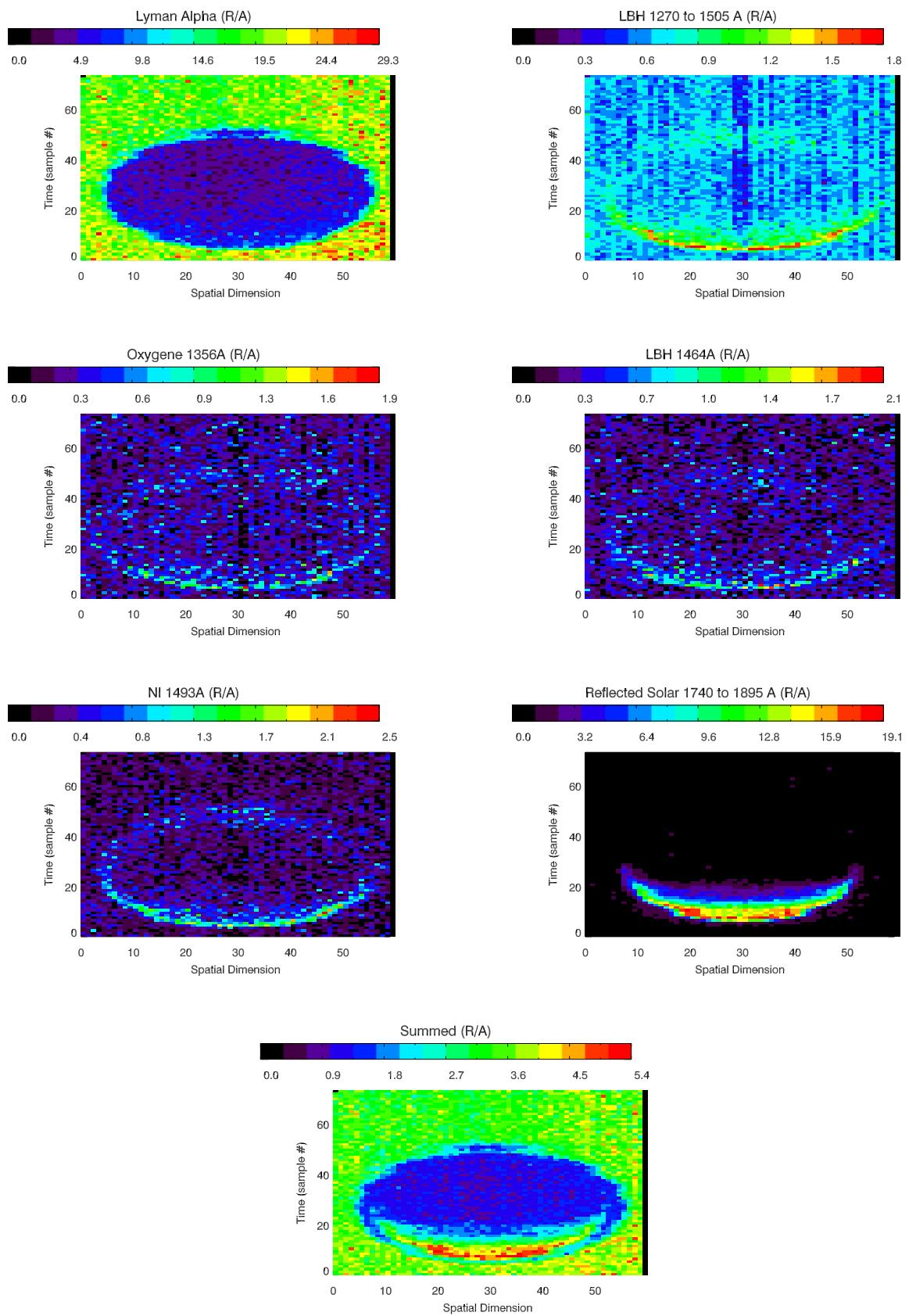


Figure 210: Panel of 7 detector images

EUV2007_069_06_57_19_UVIS_040TI_EUVFUV002_PRIME

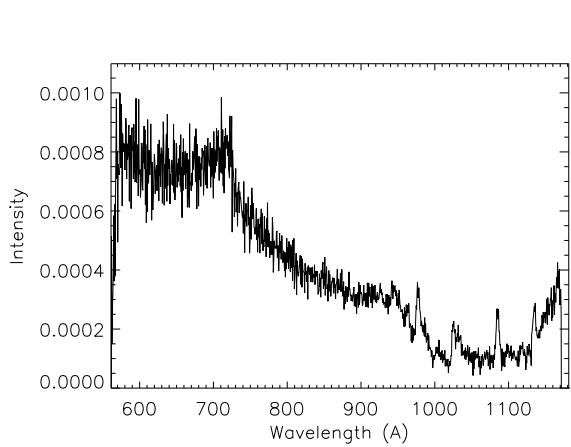


Figure 211: Spectra

body phase angle (deg): 61.1
 distance (km): 135740.
 Lon sub-s/c (180E): 229.9
 Lat sub-s/c: 45.2
 xbin: 1
 ybin: 1
 xmin: 0
 xmax: 1023
 ymin: 2
 ymax: 61
 integration (sec): 240

Figure 212: Geometry data

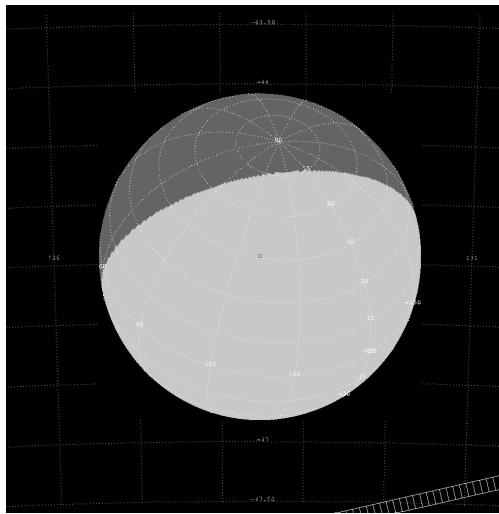


Figure 213: Frame 0

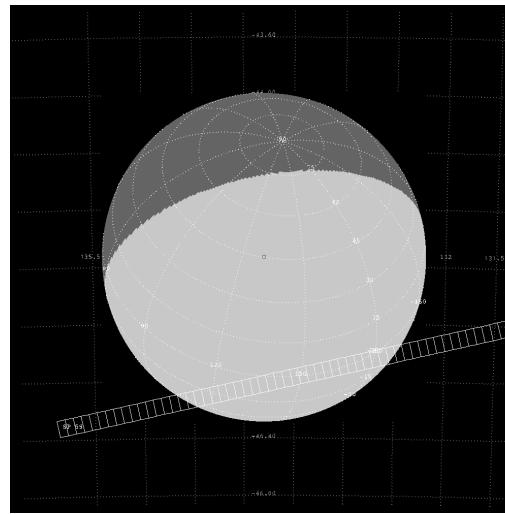


Figure 214: Frame 15

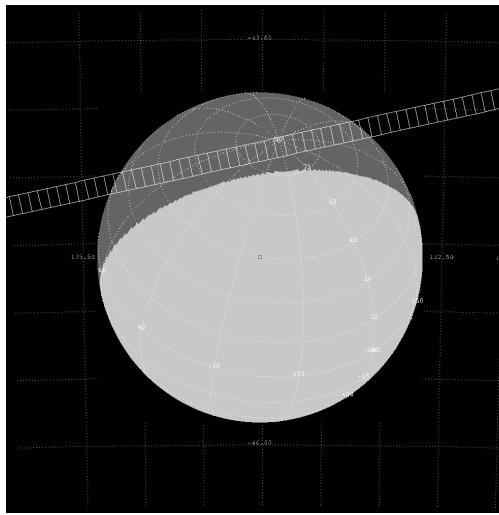


Figure 215: Frame 30

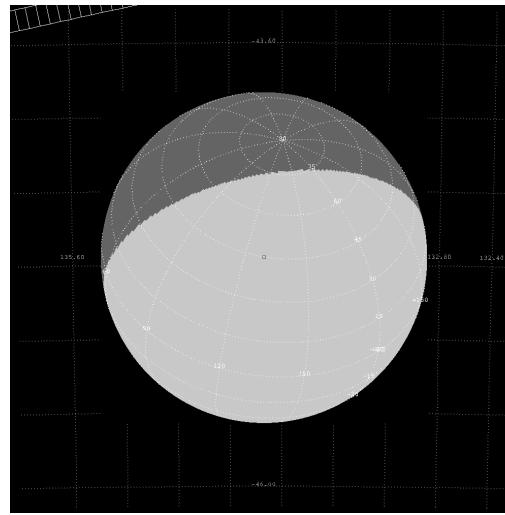


Figure 216: Frame 39

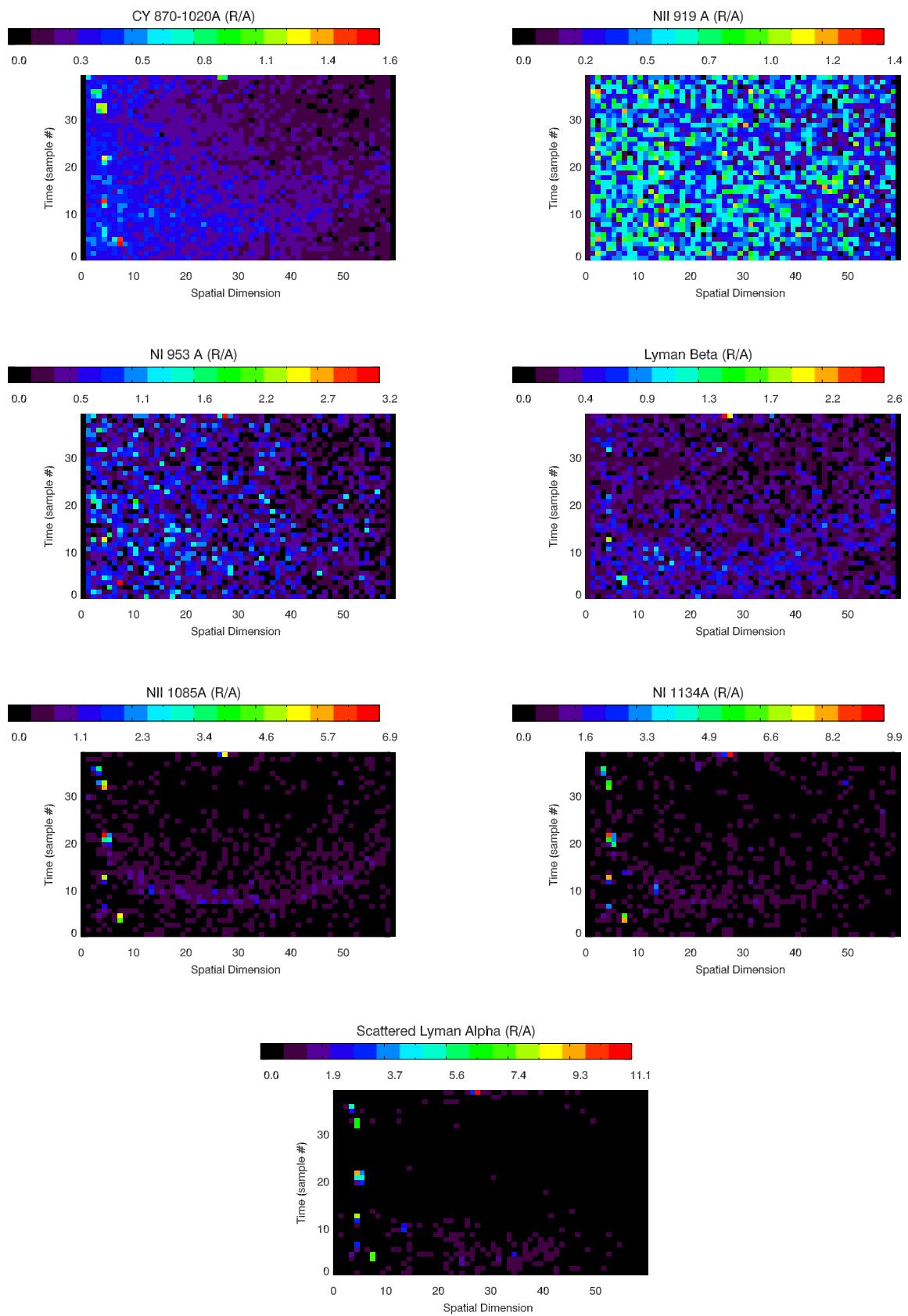


Figure 217: Panel of 7 detector images

FUV2007_069_06_57_19_UVIS_040TI_EUVFUV002_PRIME

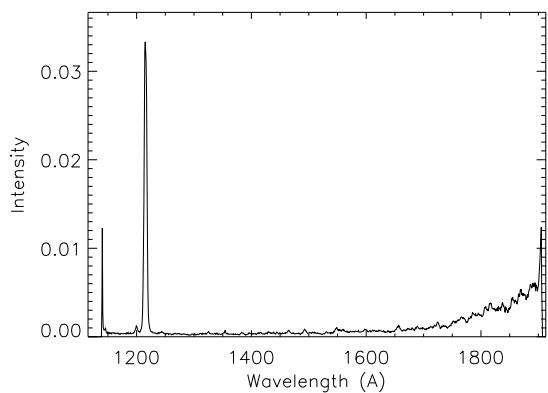


Figure 218: Spectra

body phase angle (deg): 61.1
distance (km): 135740.
Lon sub-s/c (180E): 229.9
Lat sub-s/c: 45.2
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 219: Geometry data

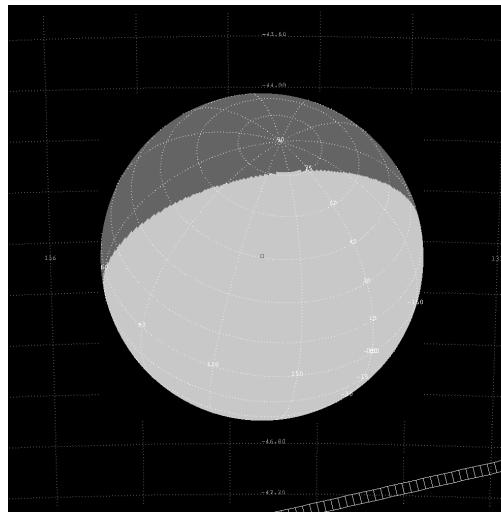


Figure 220: Frame 5

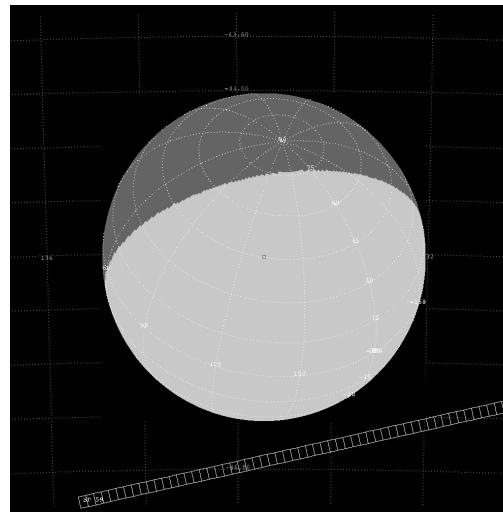


Figure 221: Frame 10

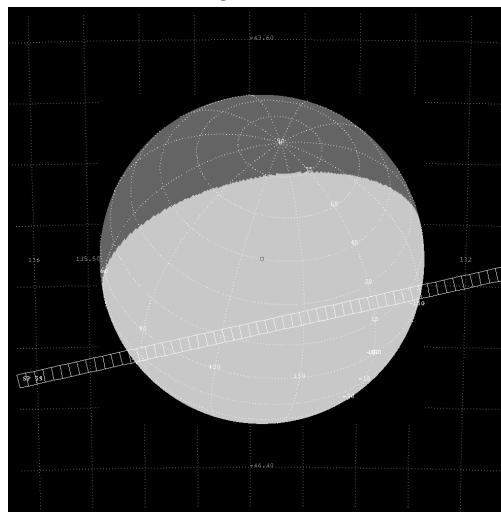


Figure 222: Frame 20

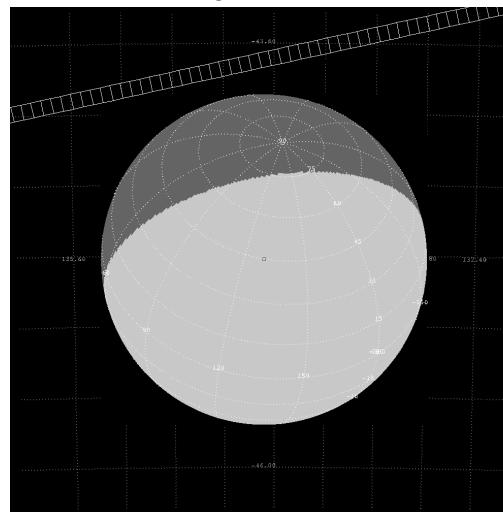


Figure 223: Frame 35

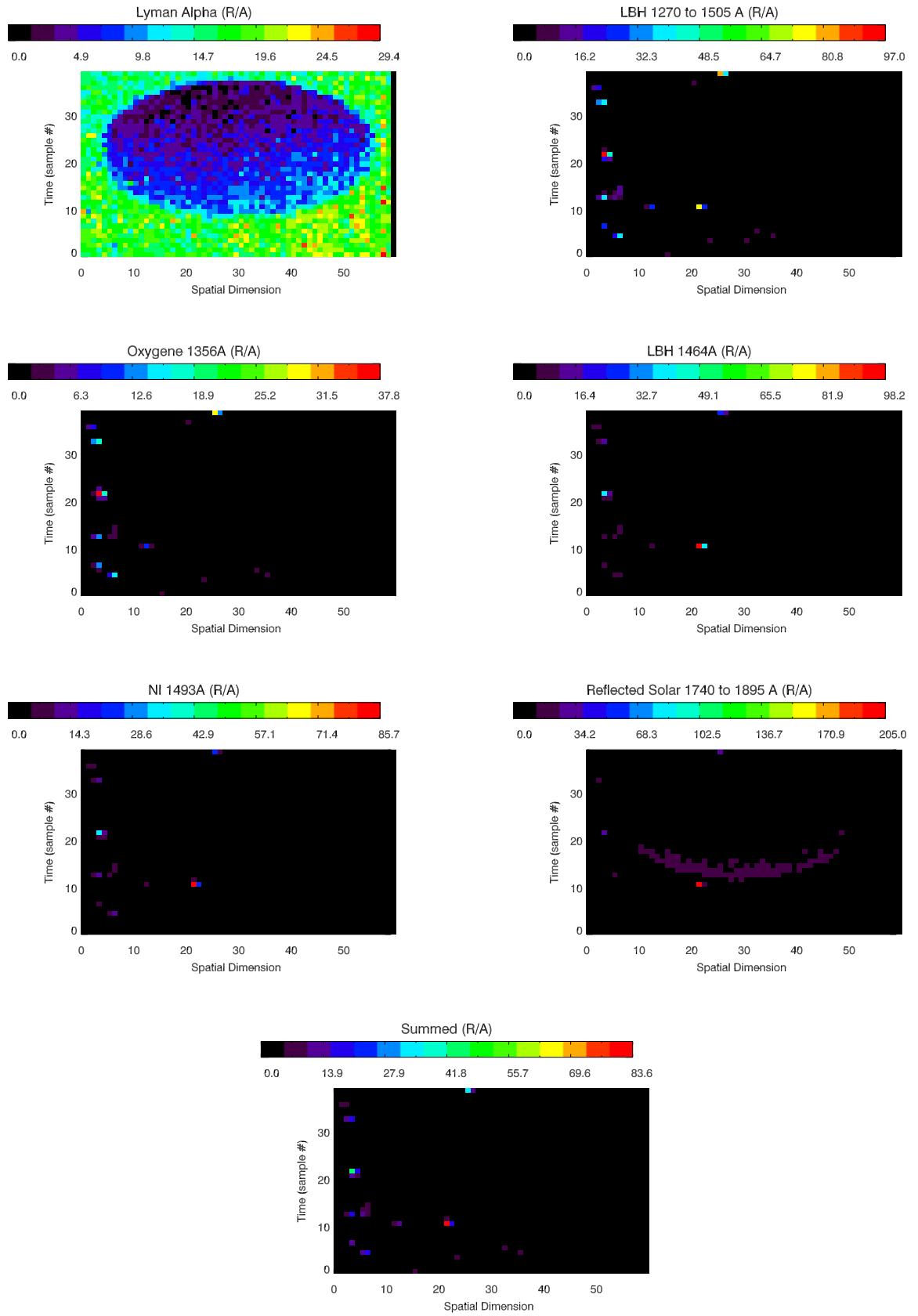


Figure 224: Panel of 7 detector images

EUV2007_084_20_56_39_UVIS_041TI_EUVFUV001_PRIME

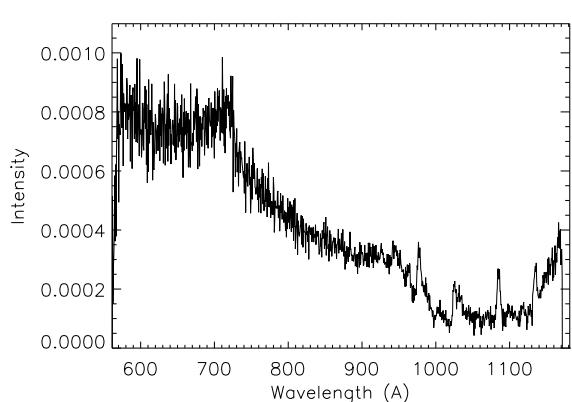


Figure 225: Spectra

body phase angle (deg): 125.1
distance (km): 50043.
Lon sub-s/c (180E): 37.0
Lat sub-s/c: -39.9
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 226: Geometry data

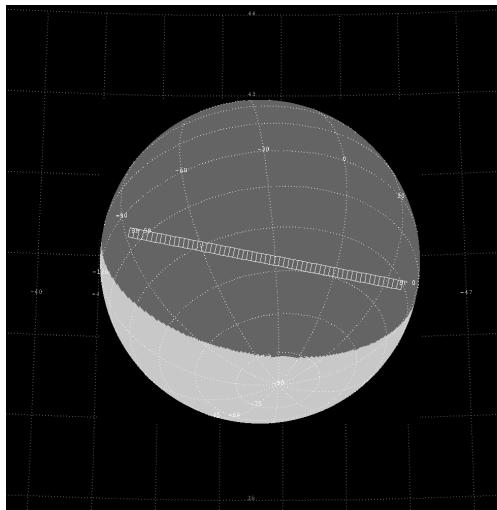


Figure 227: Frame 0

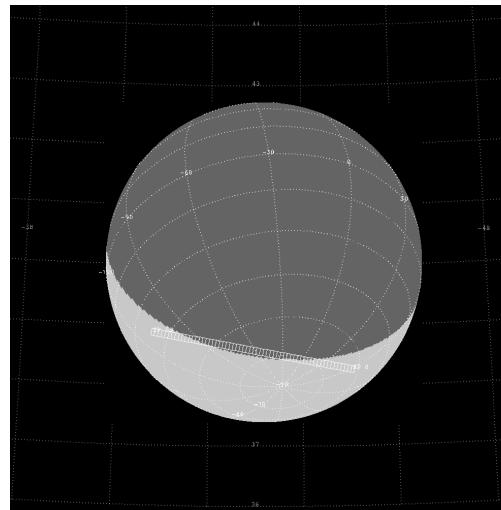


Figure 228: Frame 10

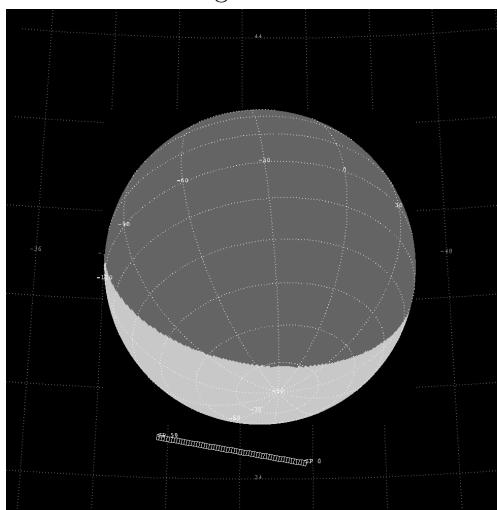


Figure 229: Frame 20

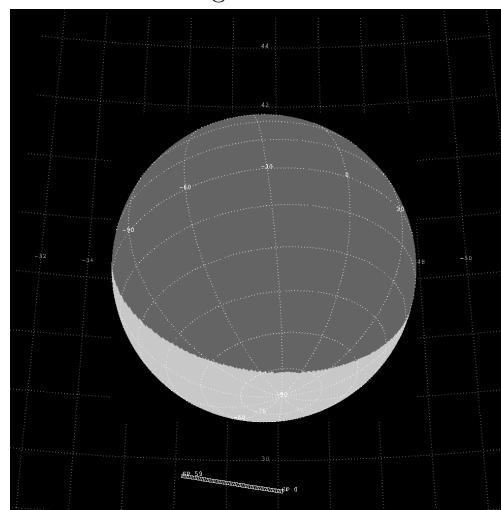


Figure 230: Frame 29

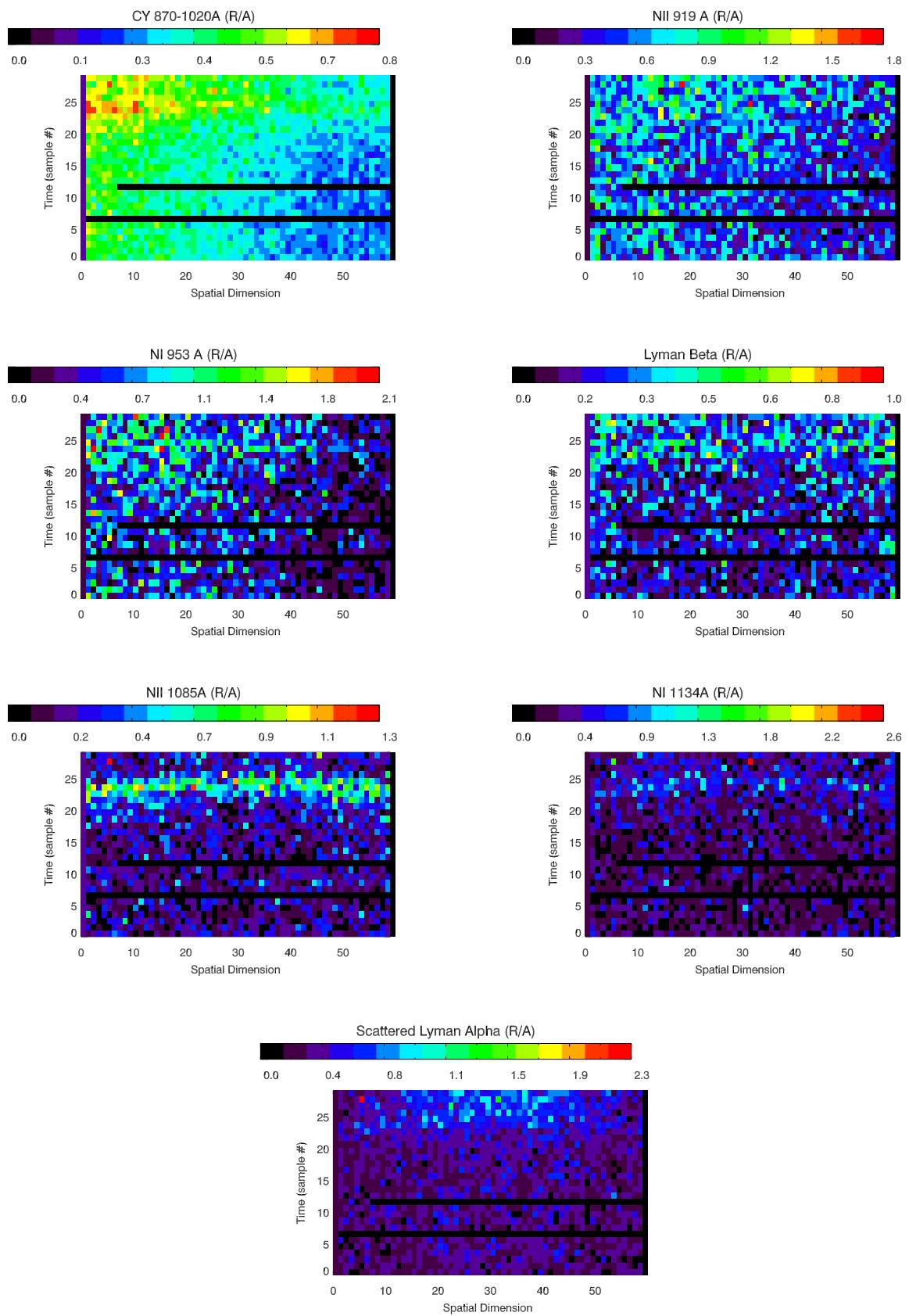


Figure 231: Panel of 7 detector images

FUV2007_084_20_56_39_UVIS_041TI_EUVFUV001_PRIME

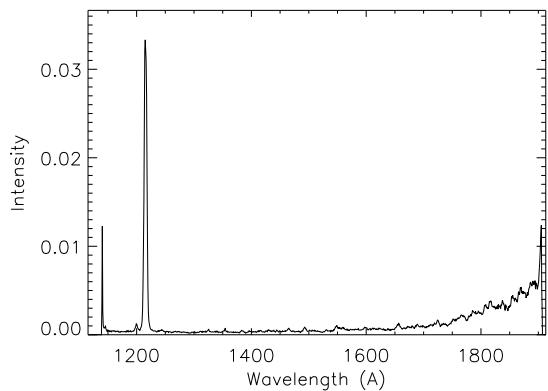


Figure 232: Spectra

body phase angle (deg): 125.1
distance (km): 50043.
Lon sub-s/c (180E): 37.0
Lat sub-s/c: -39.9
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 233: Geometry data

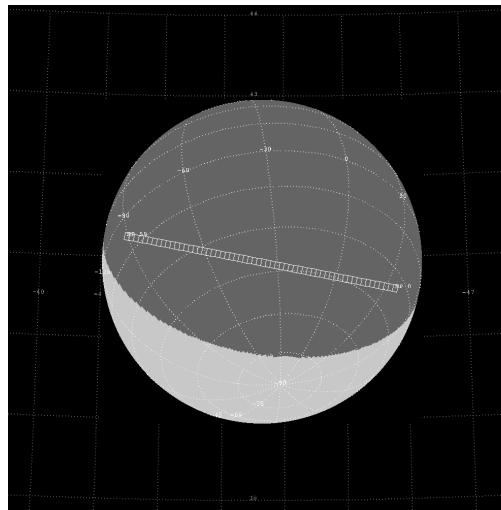


Figure 234: Frame 0

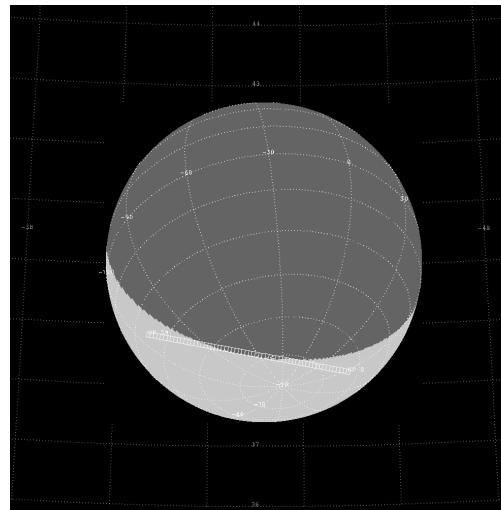


Figure 235: Frame 10

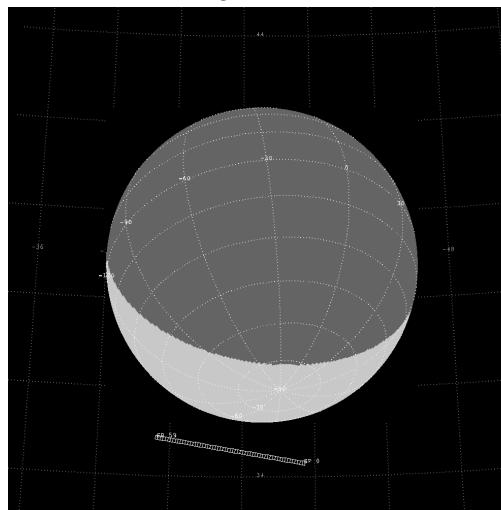


Figure 236: Frame 20

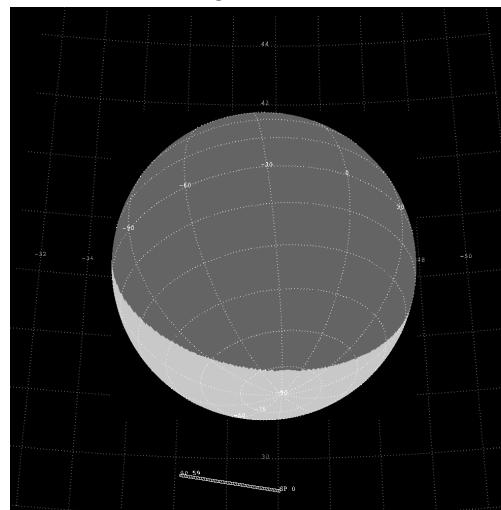


Figure 237: Frame 29

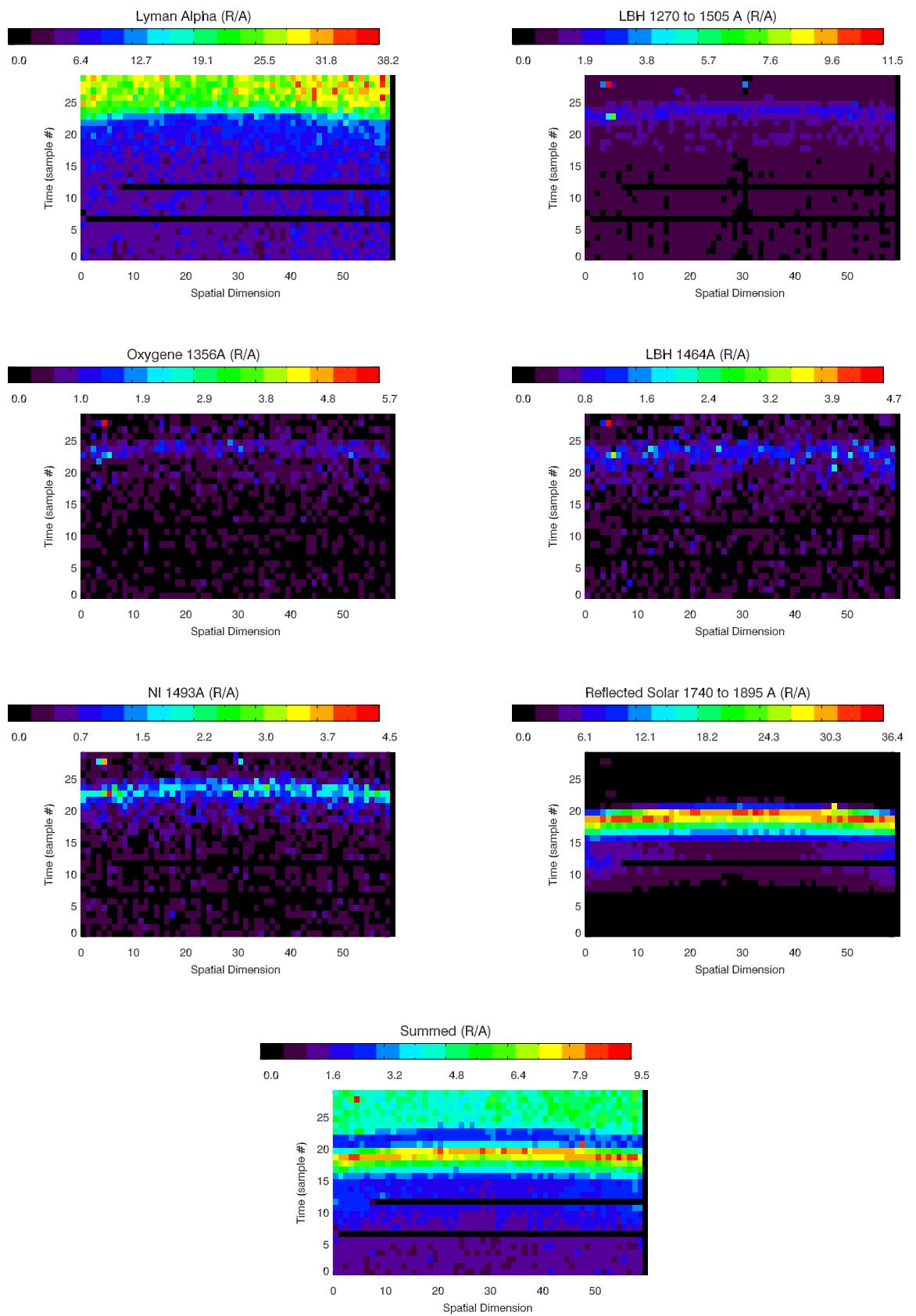


Figure 238: Panel of 7 detector images

EUV2007_085_03_30_00_UVIS_041TI_EUVFUV002_PRIME

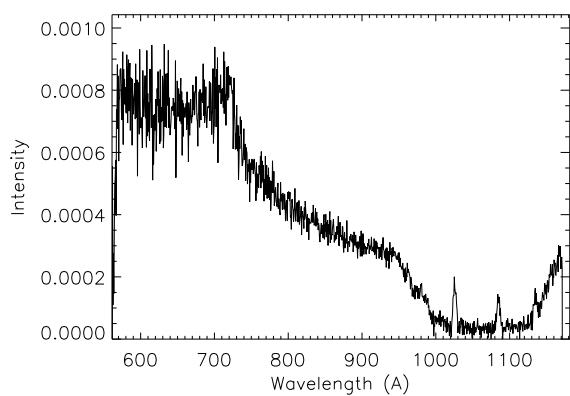


Figure 239: Spectra

body phase angle (deg): 53.8
distance (km): 115364.
Lon sub-s/c (180E): 223.5
Lat sub-s/c: 38.9
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 240: Geometry data

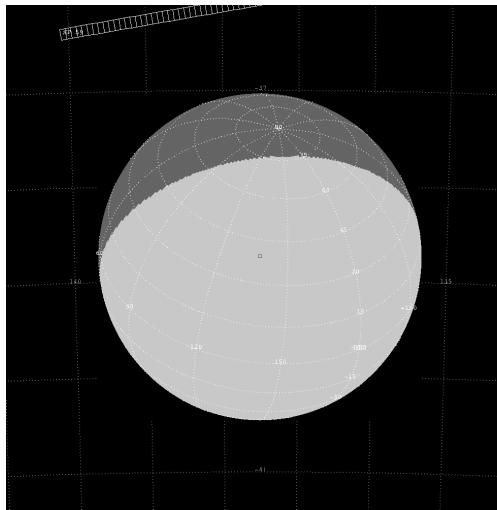


Figure 241: Frame 15

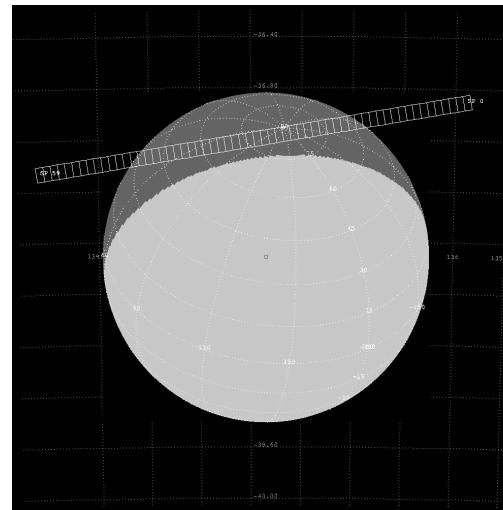


Figure 242: Frame 35

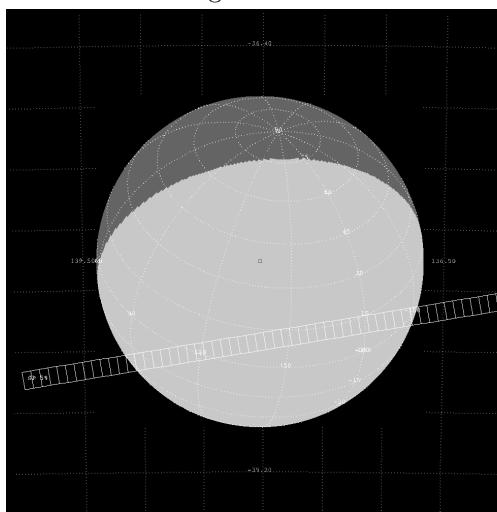


Figure 243: Frame 50

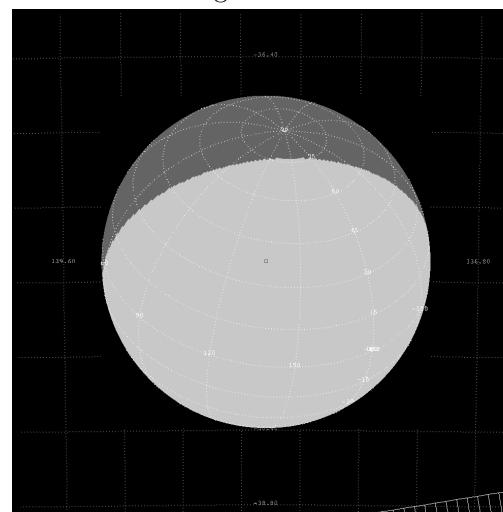


Figure 244: Frame 71

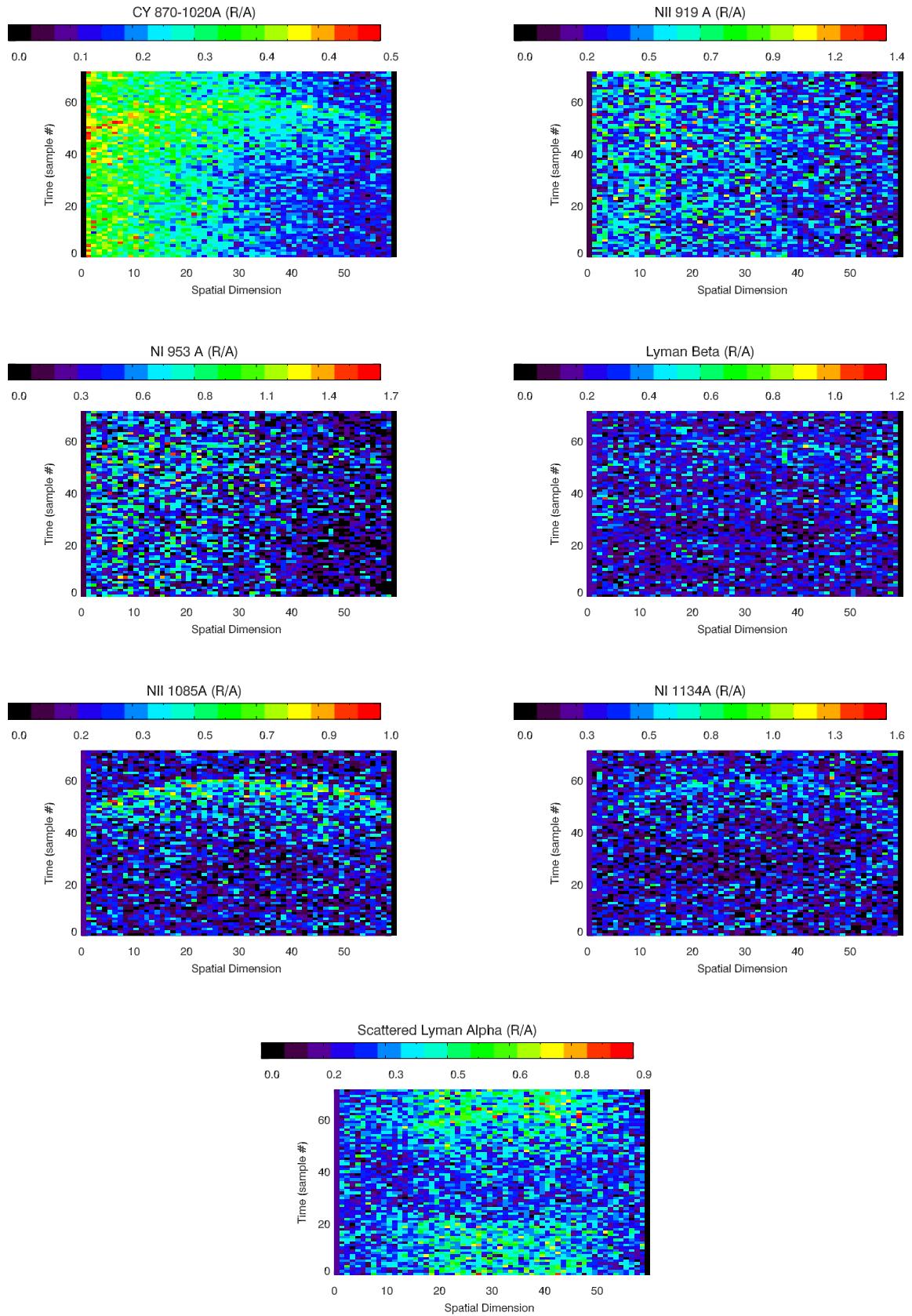


Figure 245: Panel of 7 detector images

FUV2007_085_03_30_00_UVIS_041TI_EUVFUV002_PRIME

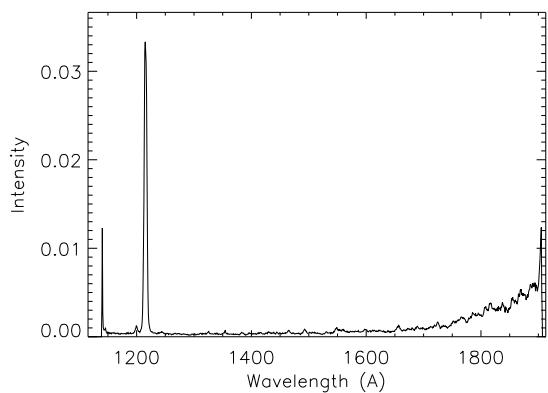


Figure 246: Spectra

body phase angle (deg): 53.8
distance (km): 115364.
Lon sub-s/c (180E): 223.5
Lat sub-s/c: 38.9
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 247: Geometry data

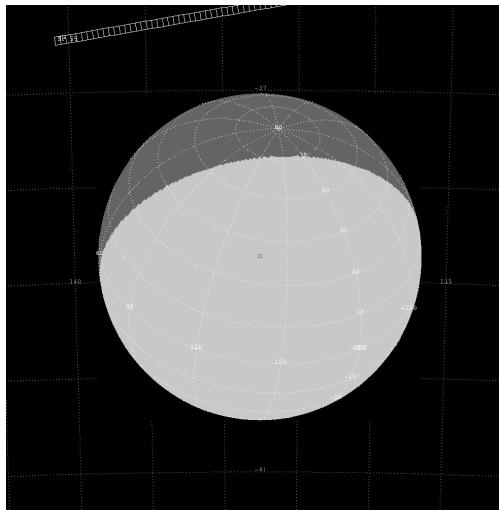


Figure 248: Frame 15

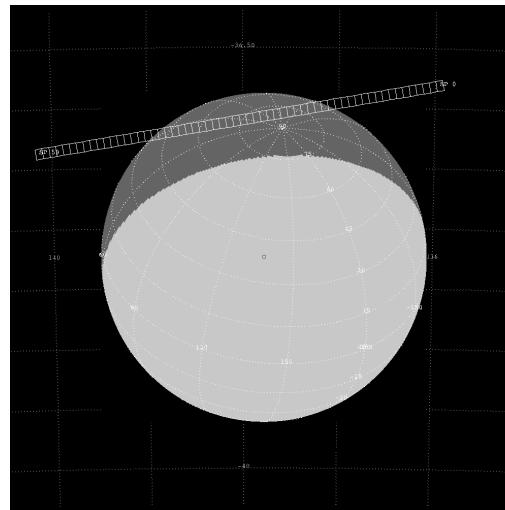


Figure 249: Frame 30

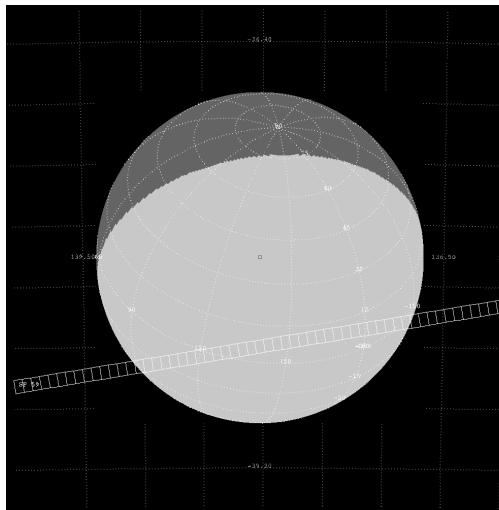


Figure 250: Frame 50

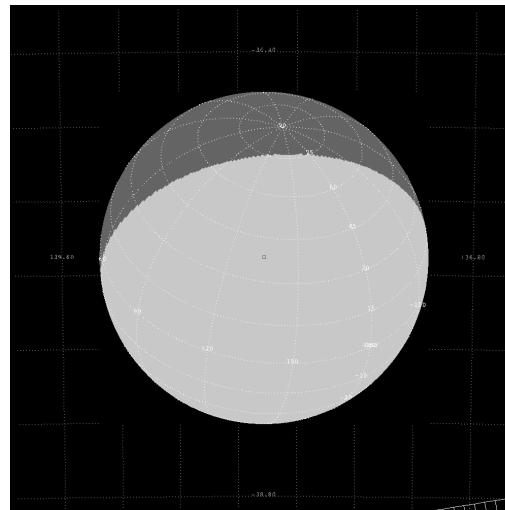


Figure 251: Frame 70

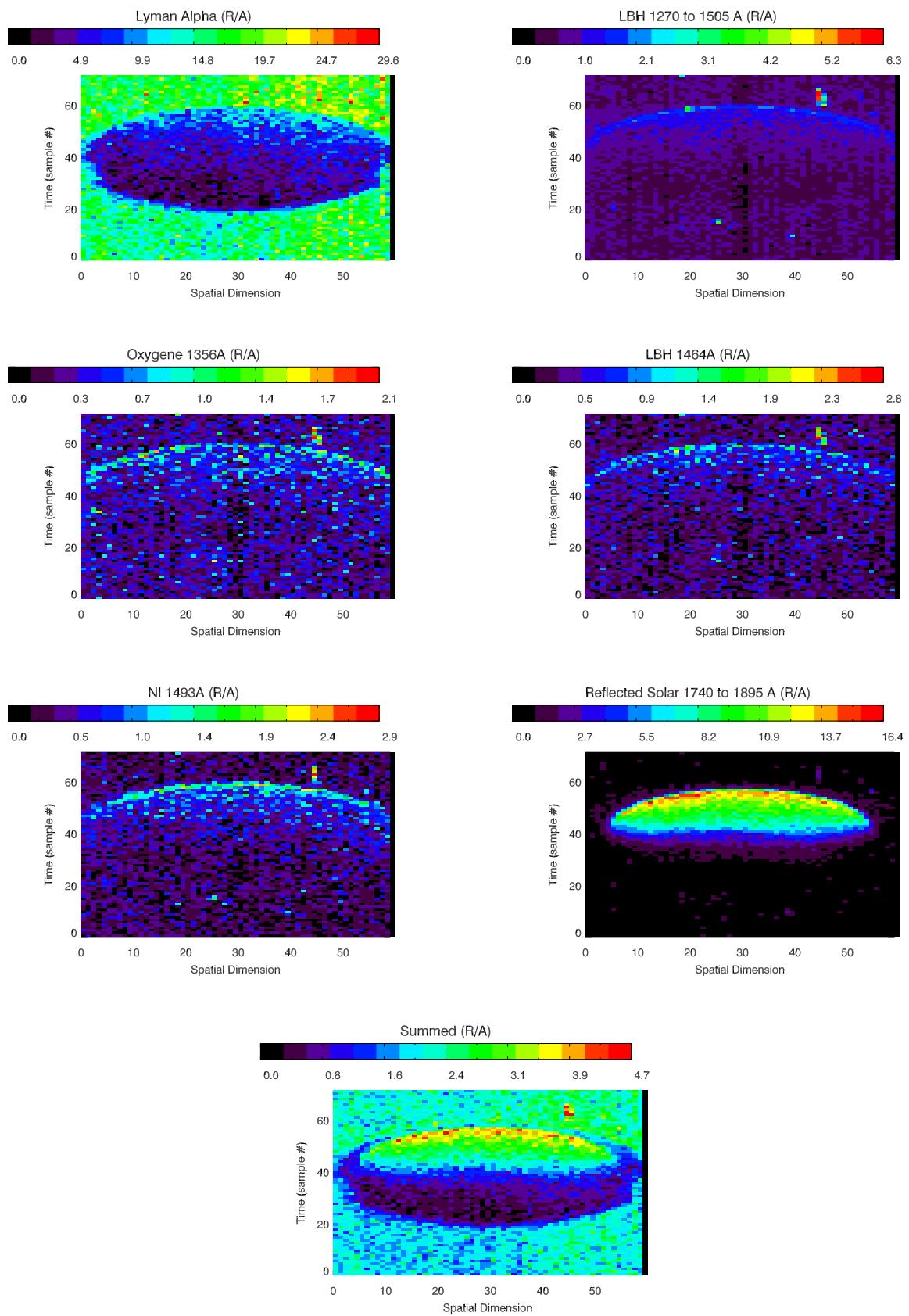


Figure 252: Panel of 7 detector images

EUV2007_132_11_15_00_UVIS_044TI_EUVFUV001_PRIME

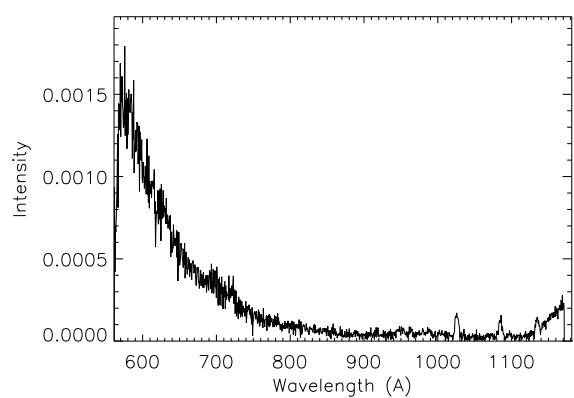


Figure 253: Spectra

body phase angle (deg): 145.8
distance (km): 149597.
Lon sub-s/c (180E): 23.6
Lat sub-s/c: -20.8
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 220

Figure 254: Geometry data

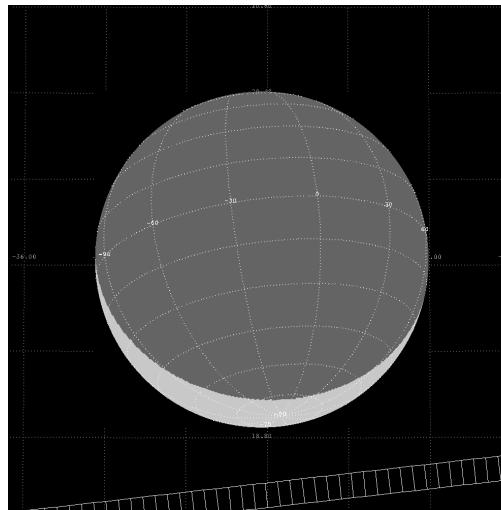


Figure 255: Frame 0

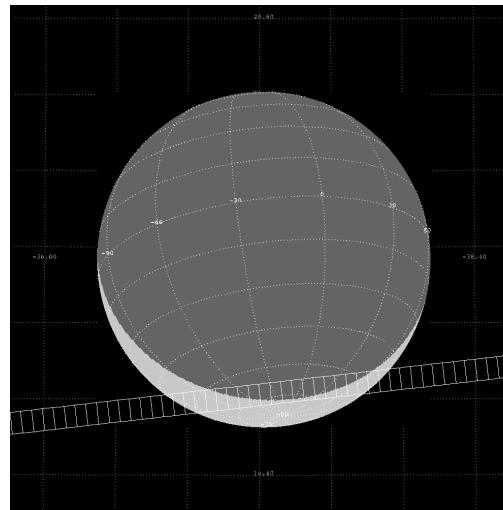


Figure 256: Frame 15

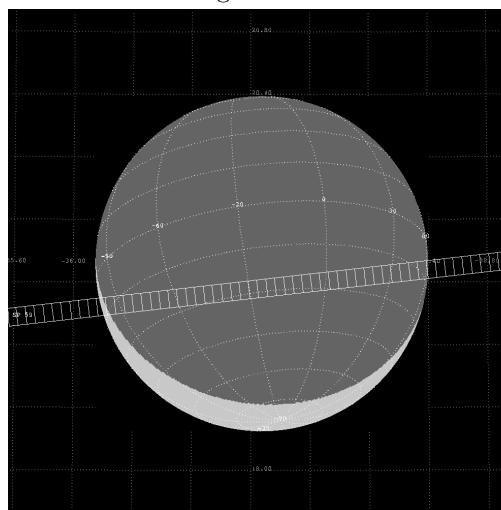


Figure 257: Frame 35

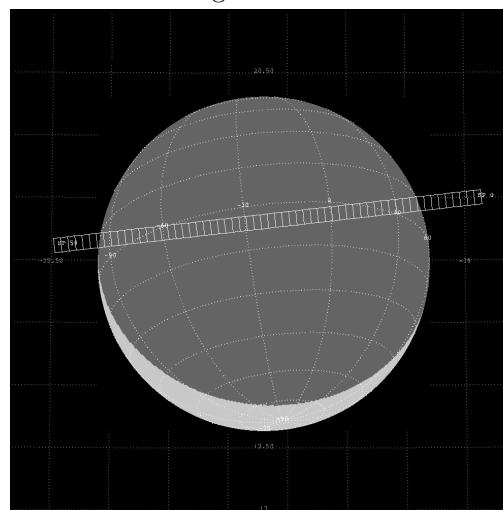


Figure 258: Frame 54

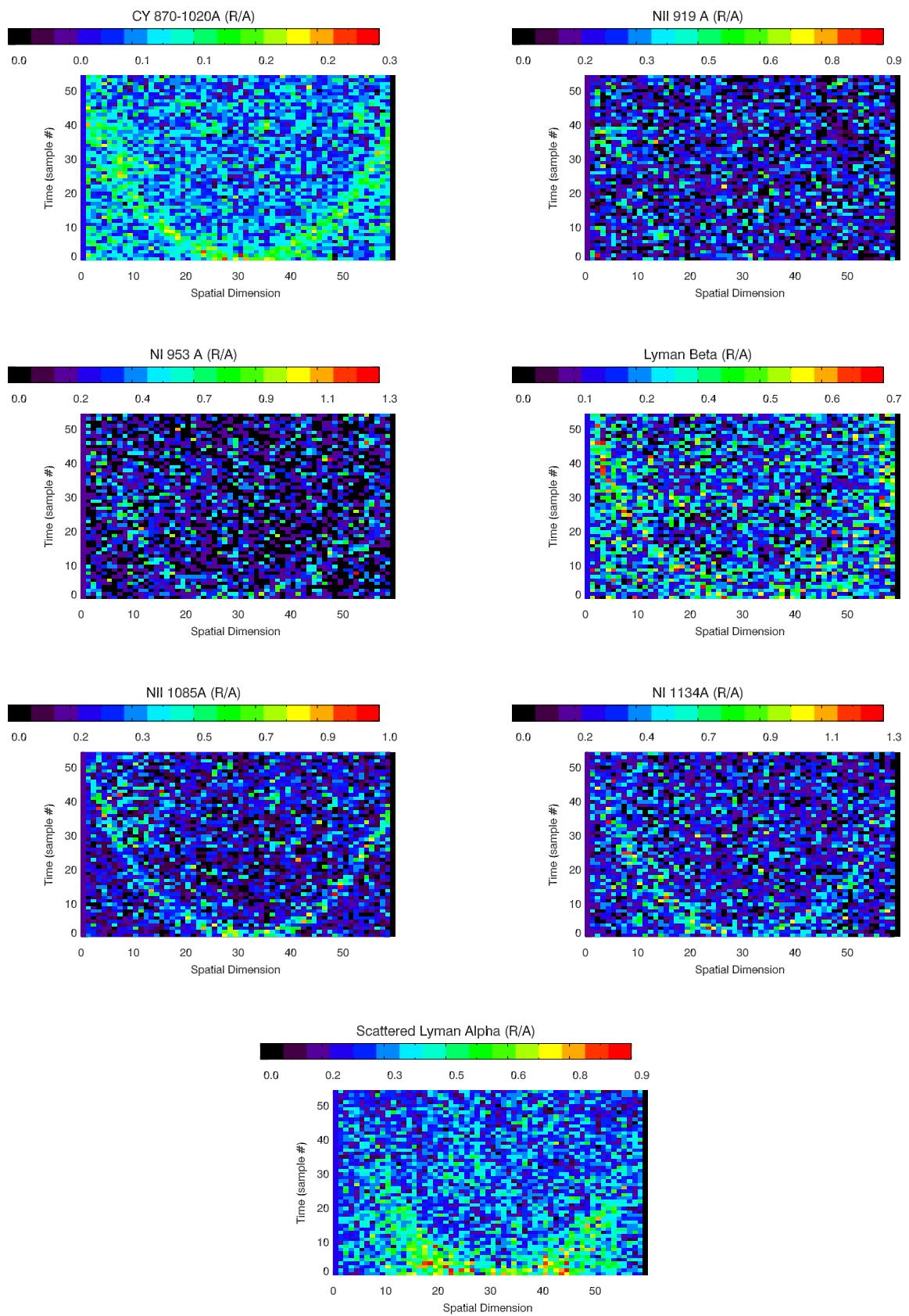


Figure 259: Panel of 7 detector images

FUV2007_132_11_15_00_UVIS_044TI_EUVFUV001_PRIME

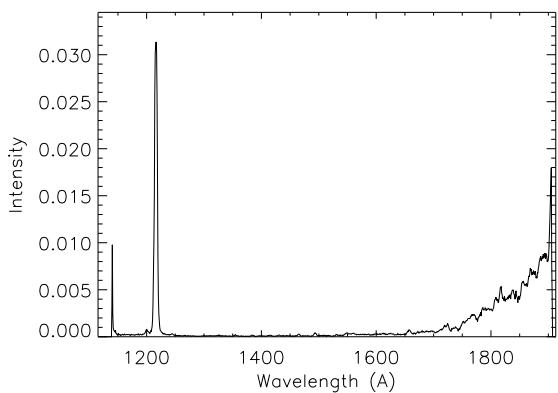


Figure 260: Spectra

body phase angle (deg): 145.8
distance (km): 149597.
Lon sub-s/c (180E): 23.6
Lat sub-s/c: -20.8
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 220

Figure 261: Geometry data

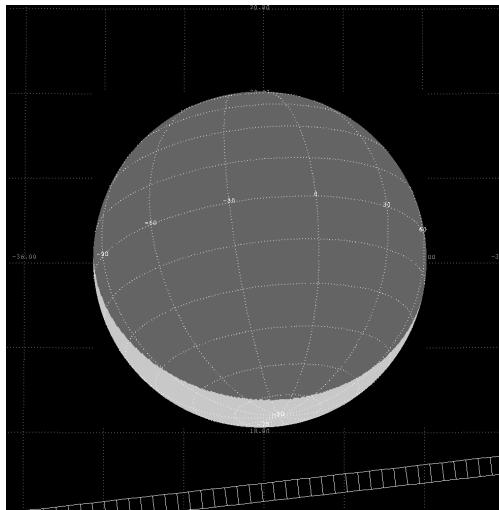


Figure 262: Frame 2

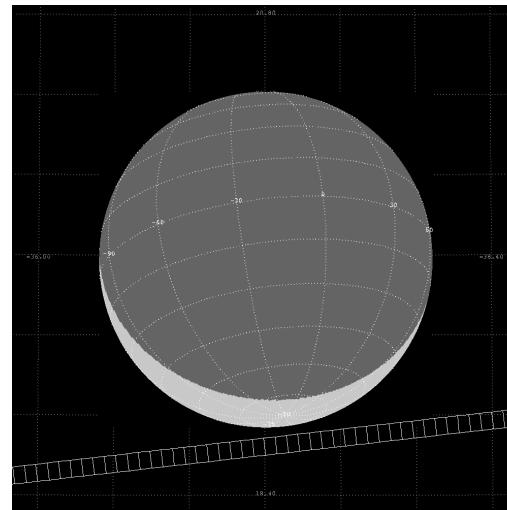


Figure 263: Frame 9

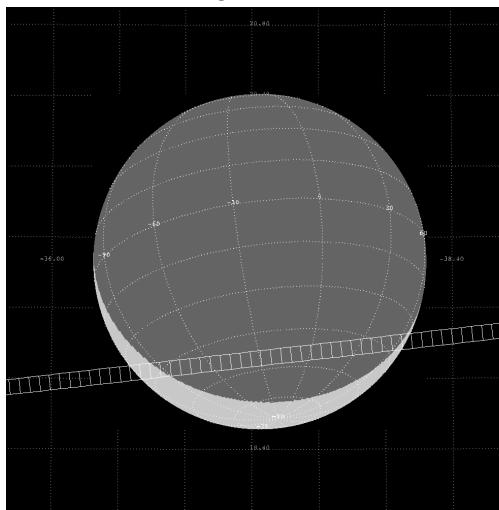


Figure 264: Frame 23

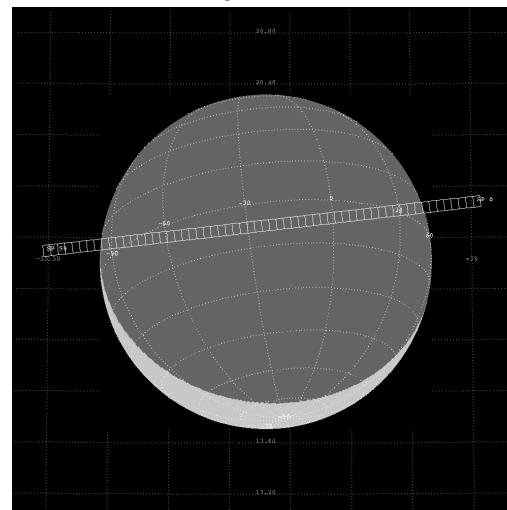


Figure 265: Frame 52

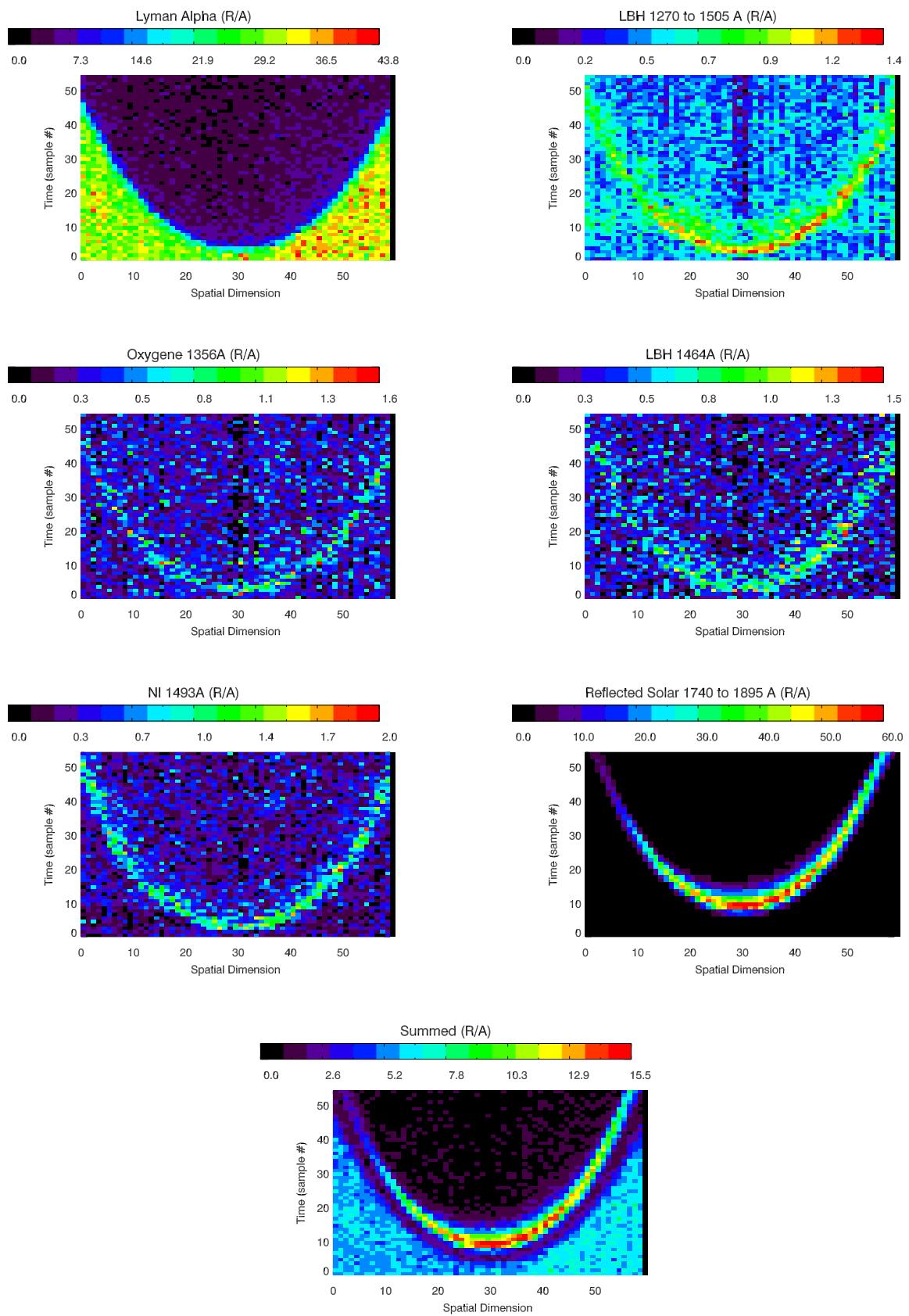


Figure 266: Panel of 7 detector images

EUV2007_148_10_01_42_UVIS_045TI_EUVFUV001_PRIME

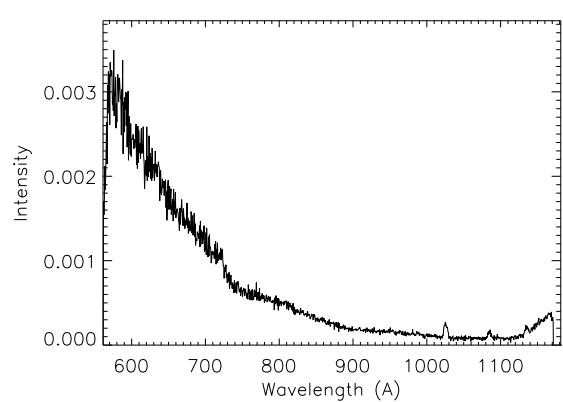


Figure 267: Spectra

body phase angle (deg): 154.7
distance (km): 127496.
Lon sub-s/c (180E): 23.0
Lat sub-s/c: -12.0
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 268: Geometry data

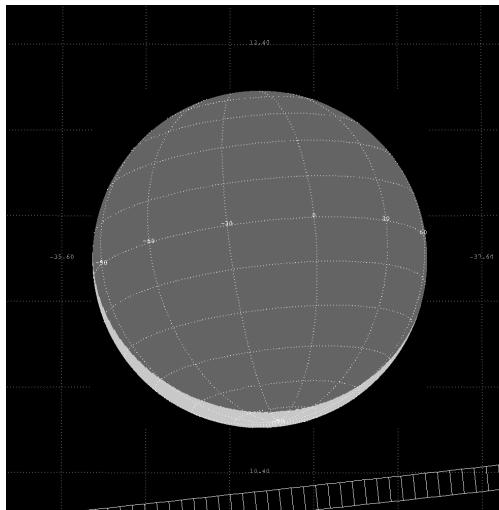


Figure 269: Frame 0

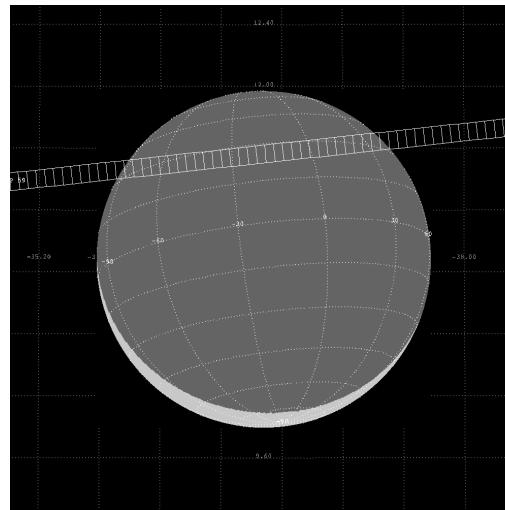


Figure 270: Frame 30

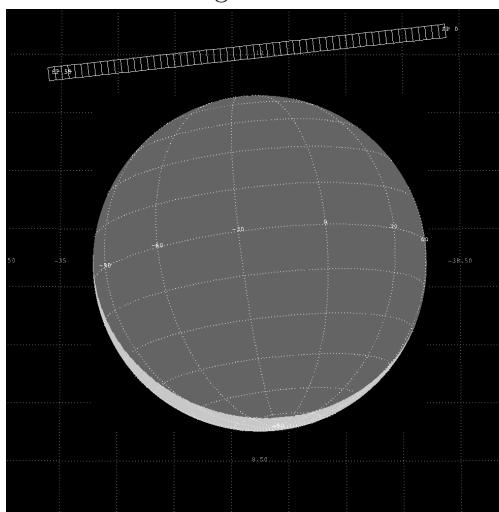


Figure 271: Frame 50

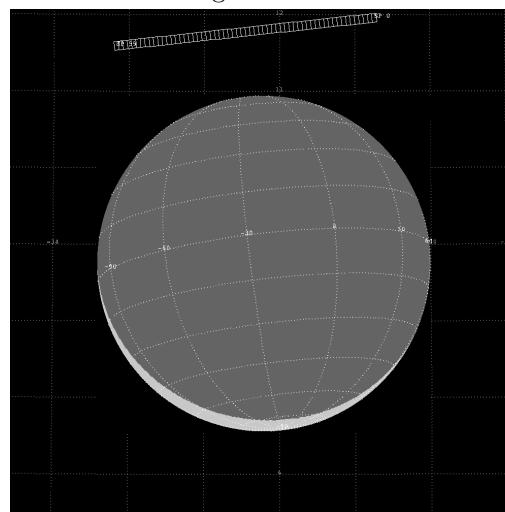


Figure 272: Frame 70

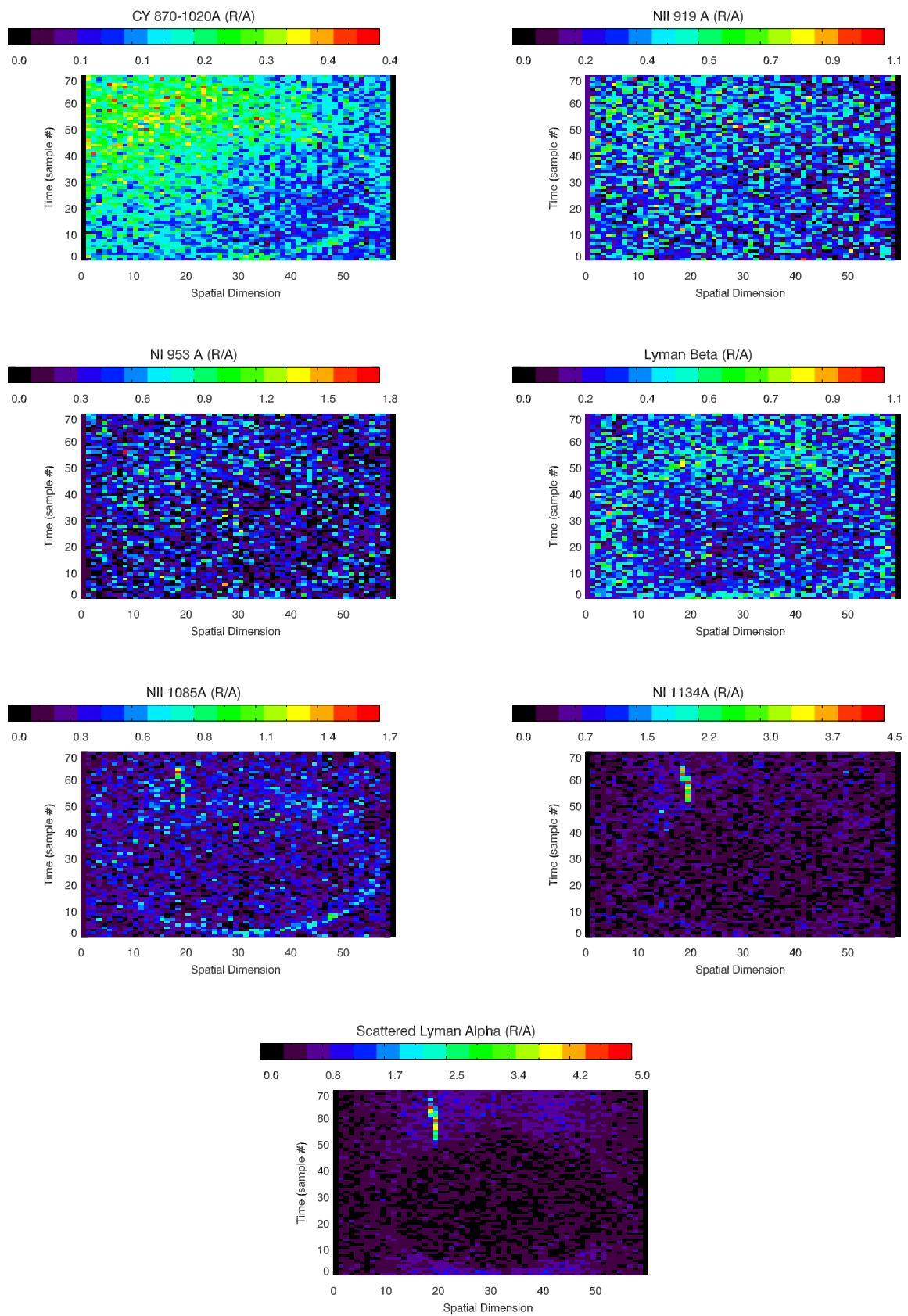


Figure 273: Panel of 7 detector images

FUV2007_148_10_01_42_UVIS_045TI_EUVFUV001_PRIME

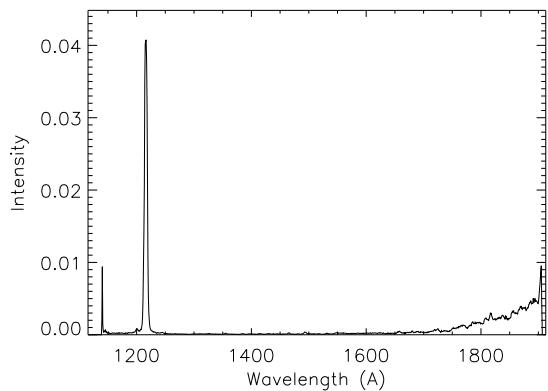


Figure 274: Spectra

body phase angle (deg): 154.7
distance (km): 127496.
Lon sub-s/c (180E): 23.0
Lat sub-s/c: -12.0
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 275: Geometry data

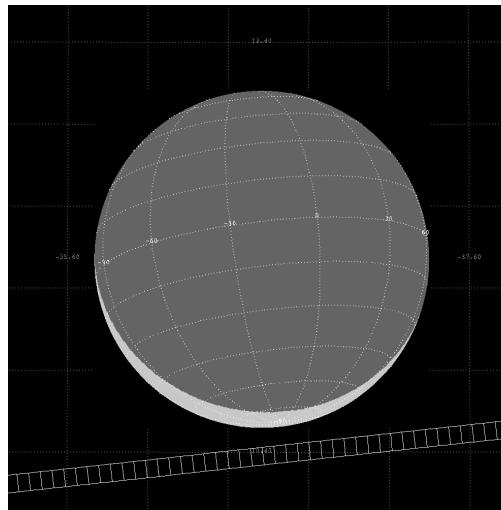


Figure 276: Frame 5

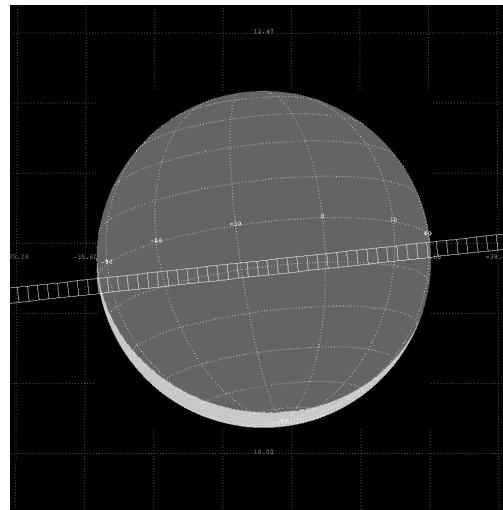


Figure 277: Frame 20

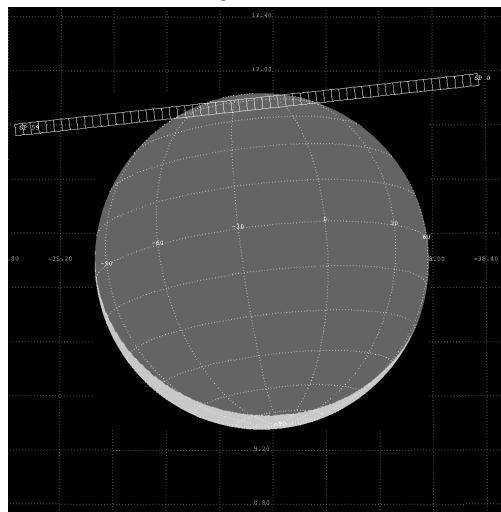


Figure 278: Frame 40

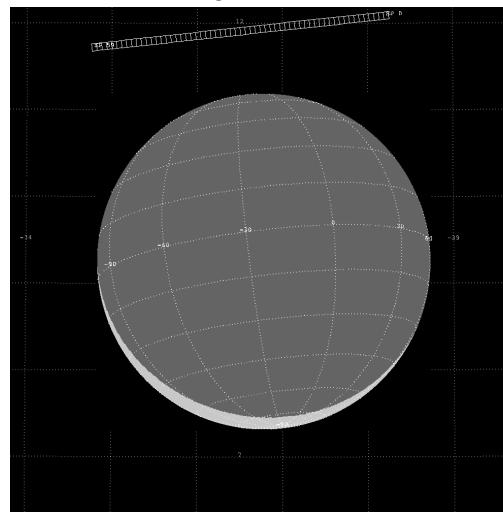


Figure 279: Frame 65

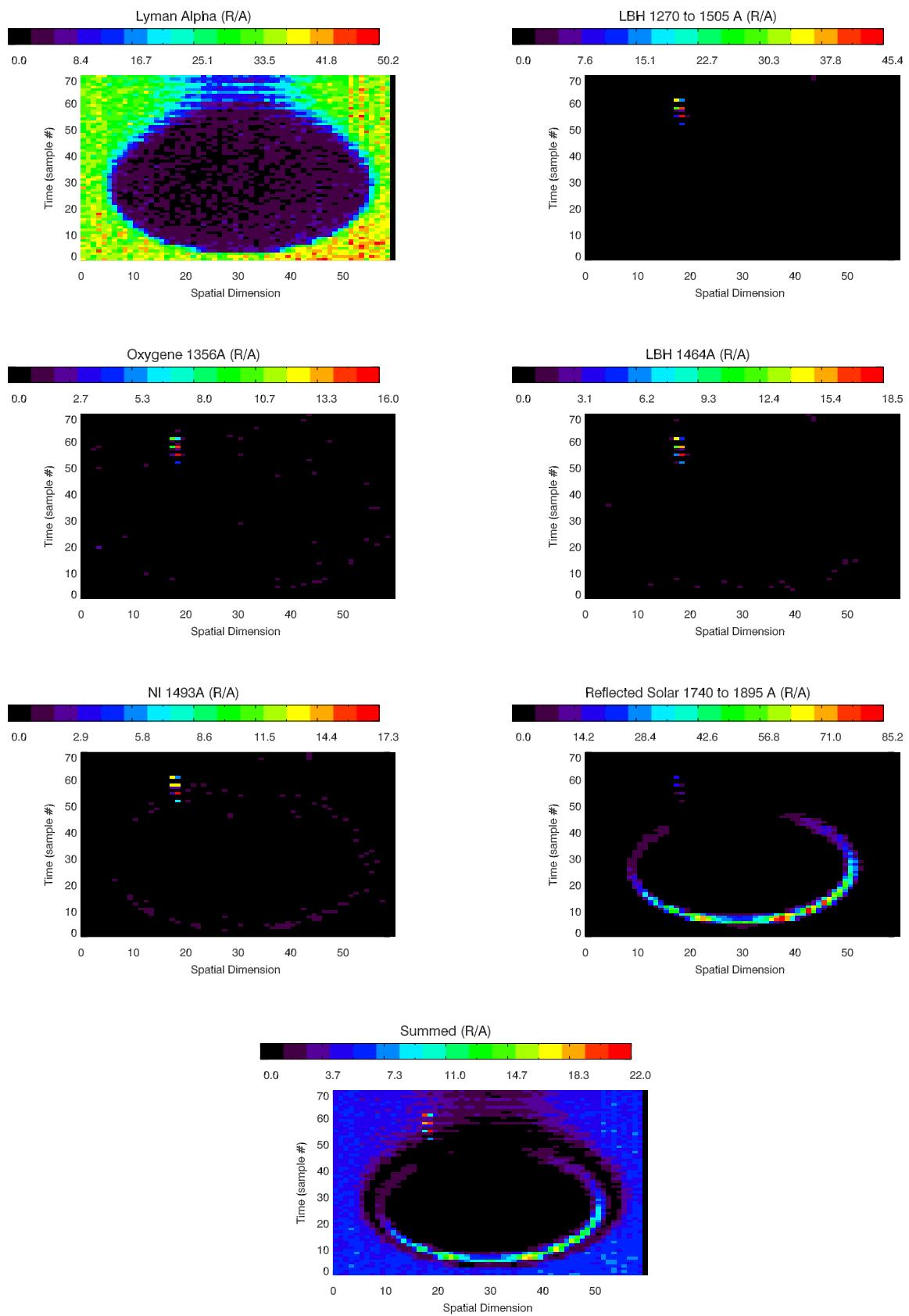


Figure 280: Panel of 7 detector images

EUV2007_164_12_51_43_UVIS_046TI_EUVFUV001_PRIME

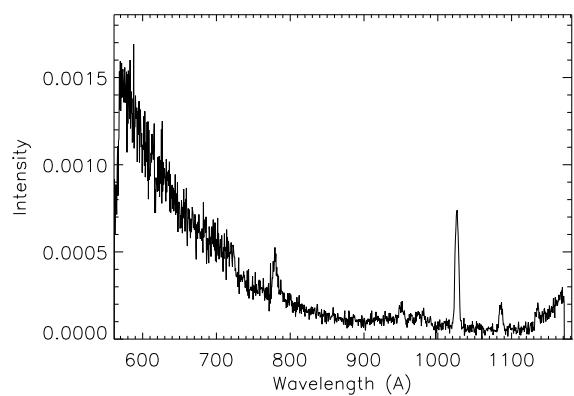
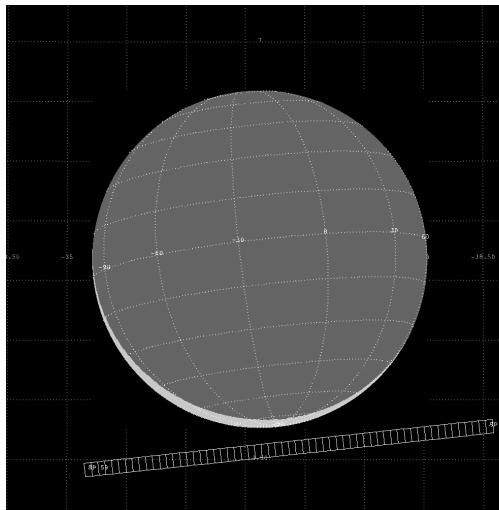


Figure 281: Spectra

body phase angle (deg): 160.5
distance (km): 85501.
Lon sub-s/c (180E): 24.4
Lat sub-s/c: -6.2
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 282: Geometry data



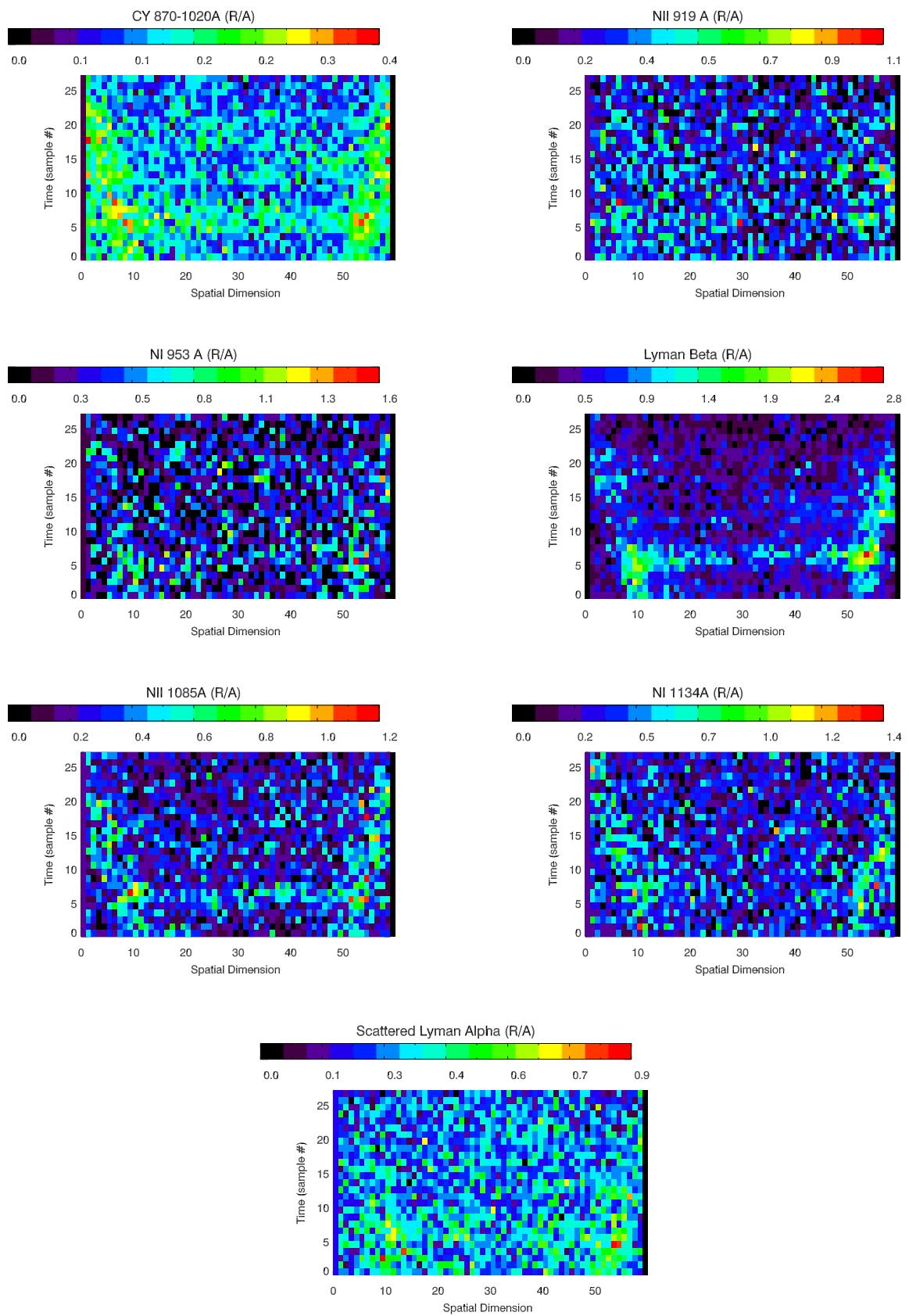


Figure 287: Panel of 7 detector images

FUV2007_164_12_51_43_UVIS_046TI_EUVFUV001_PRIME

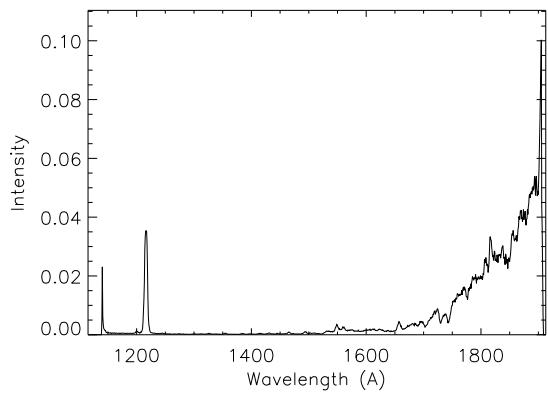


Figure 288: Spectra

body phase angle (deg): 160.5
distance (km): 85501.
Lon sub-s/c (180E): 24.4
Lat sub-s/c: -6.2
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 289: Geometry data

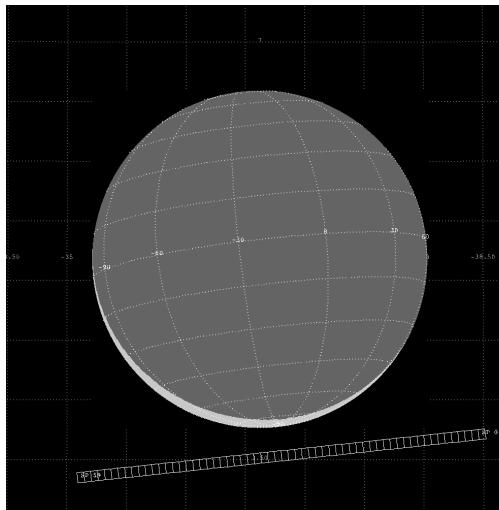


Figure 290: Frame 0

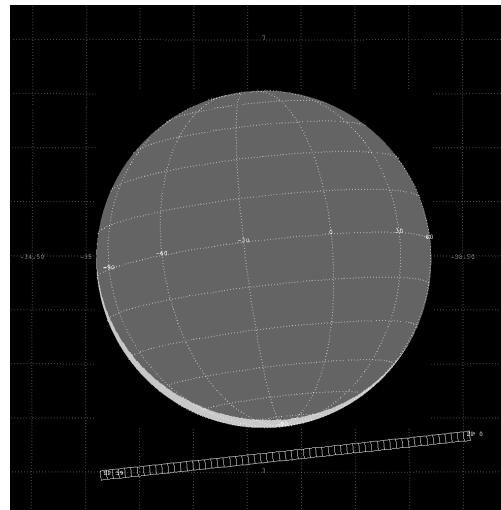


Figure 291: Frame 7

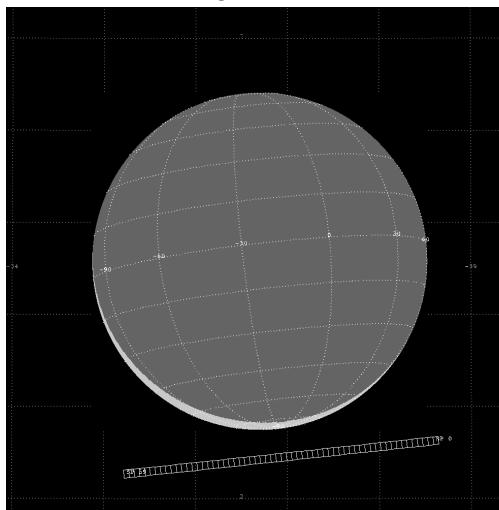


Figure 292: Frame 17

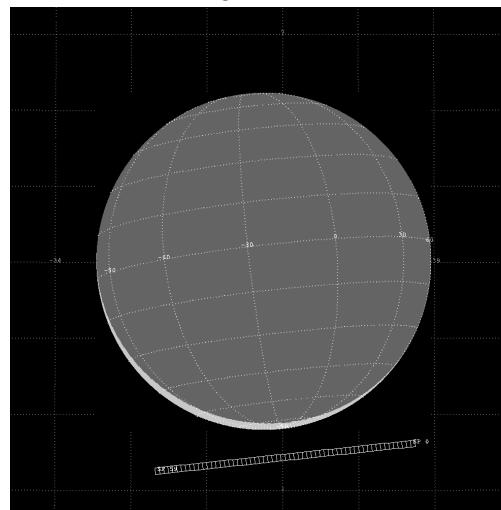


Figure 293: Frame 27

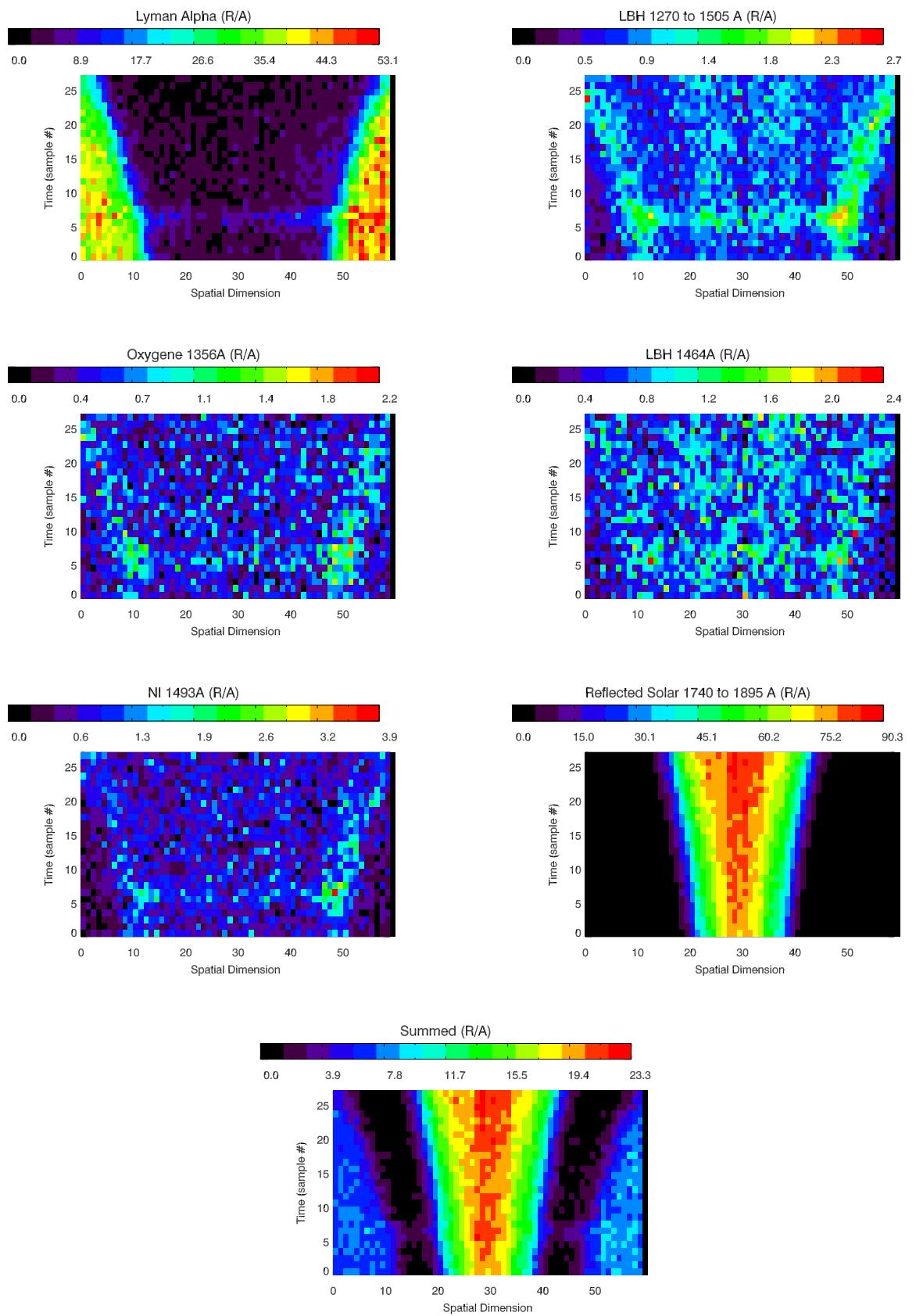


Figure 294: Panel of 7 detector images

EUV2007_180_12_30_18_UVIS_047TI_EUVFUV001_PRIME

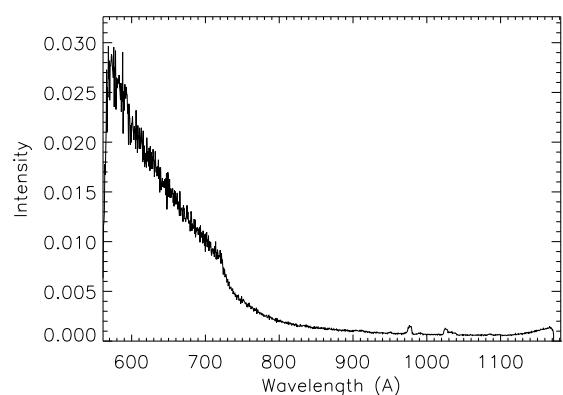


Figure 295: Spectra

body phase angle (deg): 167.6
distance (km): 74924.
Lon sub-s/c (180E): 20.9
Lat sub-s/c: -0.3
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 296: Geometry data

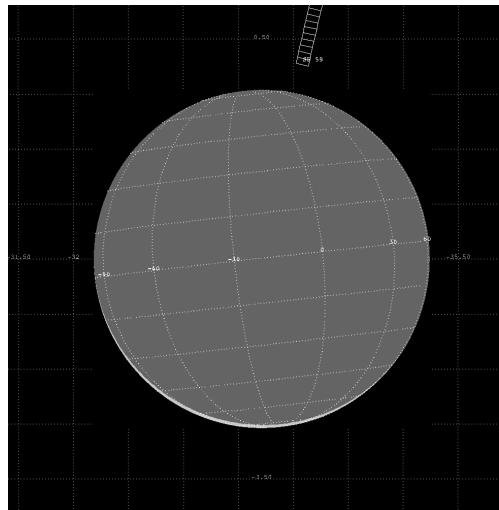


Figure 297: Frame 0

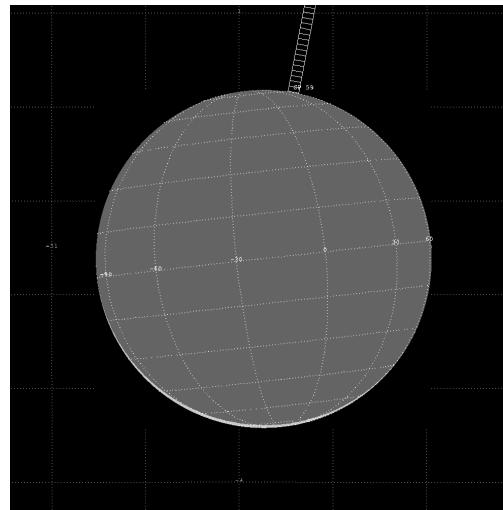


Figure 298: Frame 10

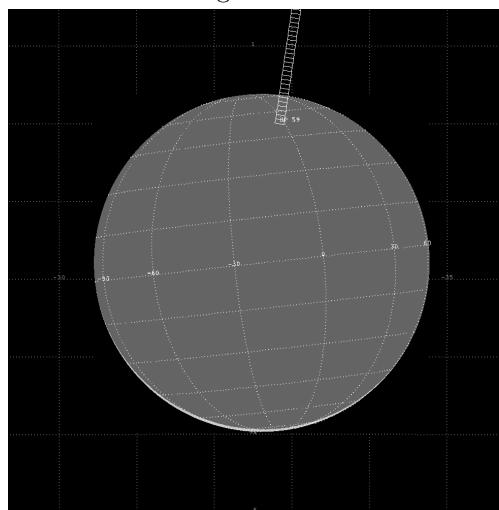


Figure 299: Frame 20

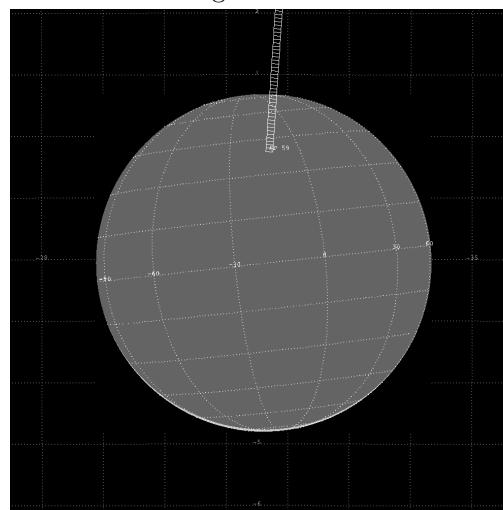


Figure 300: Frame 30

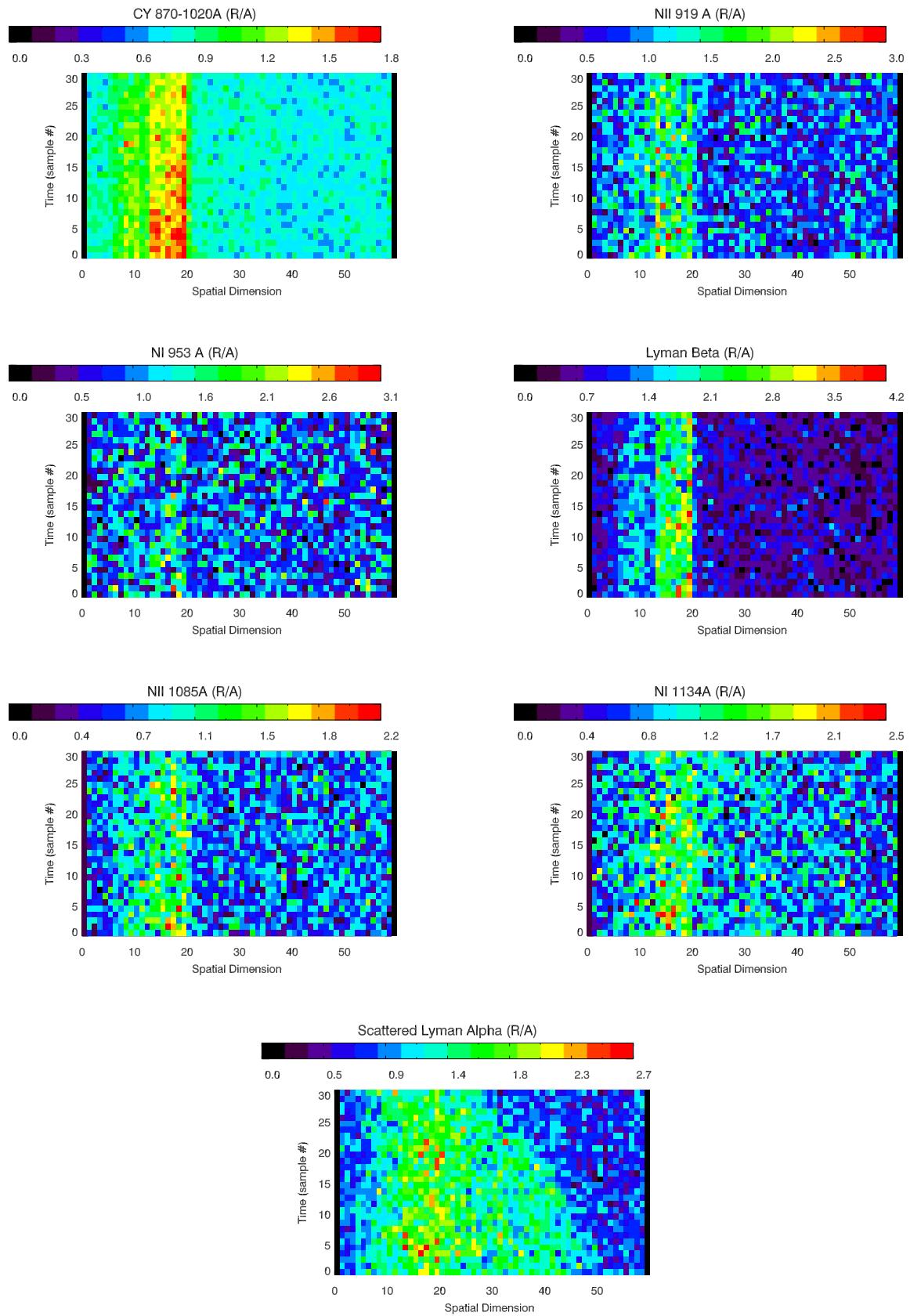


Figure 301: Panel of 7 detector images

FUV2007_180_12_30_18_UVIS_047TI_EUVFUV001_PRIME

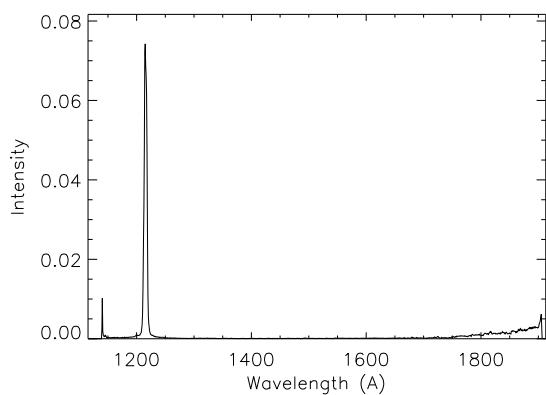


Figure 302: Spectra

body phase angle (deg): 167.6
distance (km): 74924.
Lon sub-s/c (180E): 20.9
Lat sub-s/c: -0.3
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 303: Geometry data

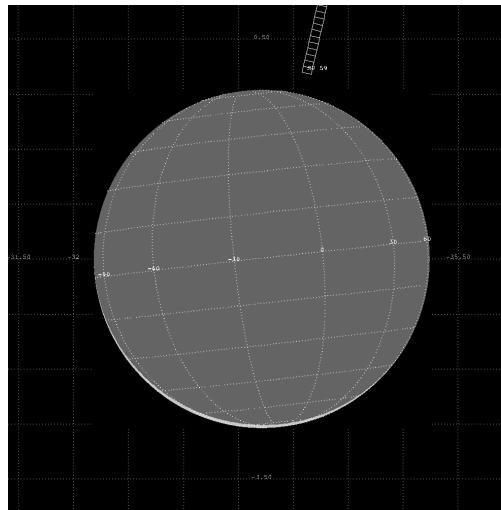


Figure 304: Frame 0

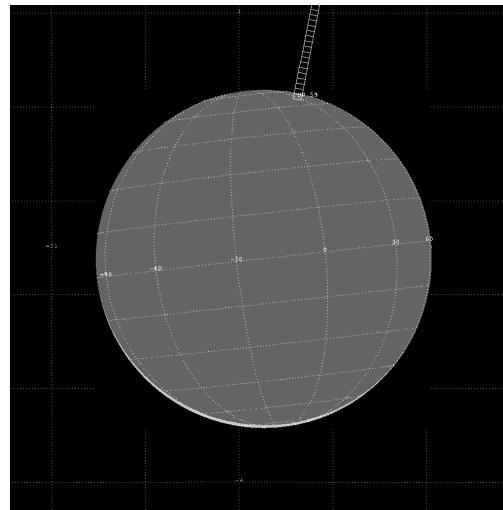


Figure 305: Frame 10

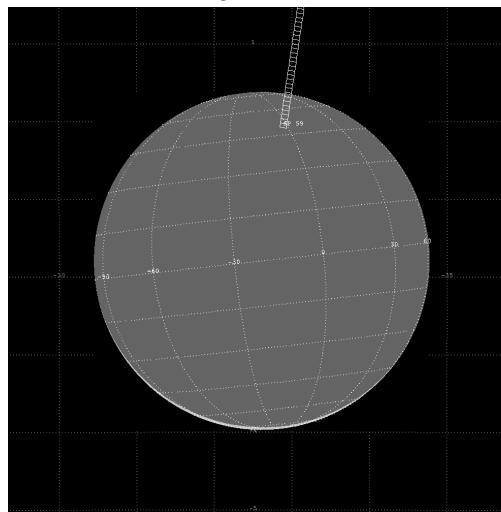


Figure 306: Frame 20

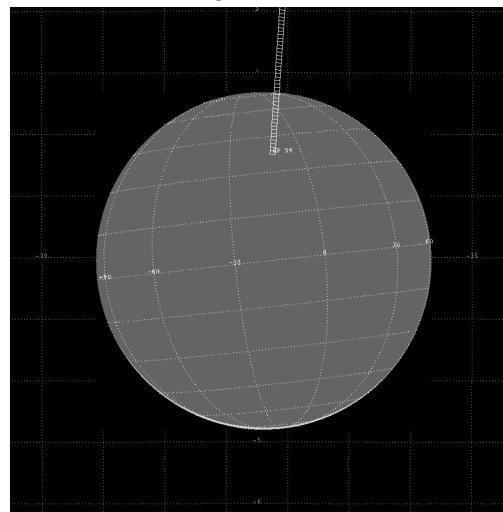


Figure 307: Frame 30

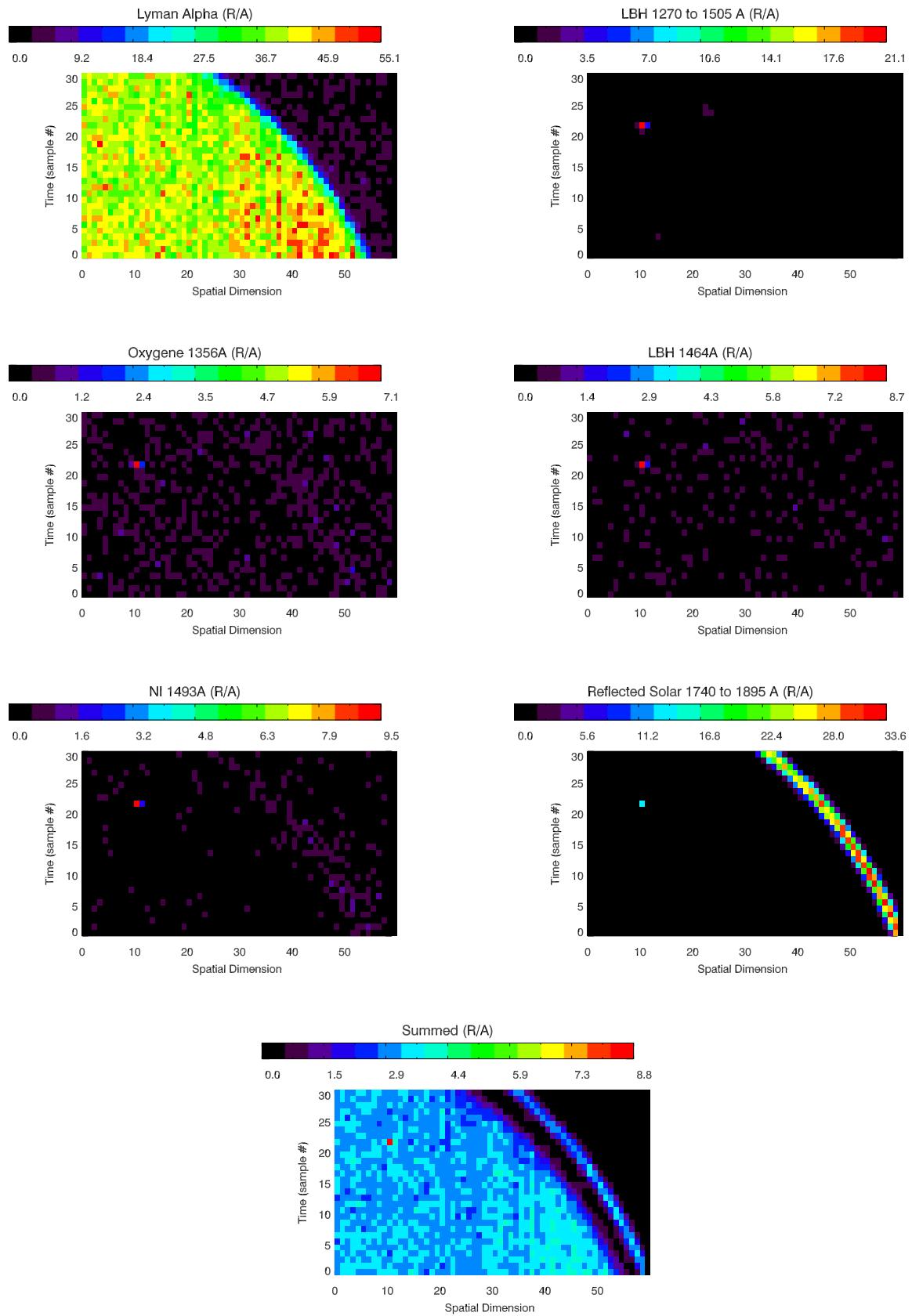


Figure 308: Panel of 7 detector images

EUV2007_199_16_28_23_UVIS_048TI_EUVFUV001_PRIME

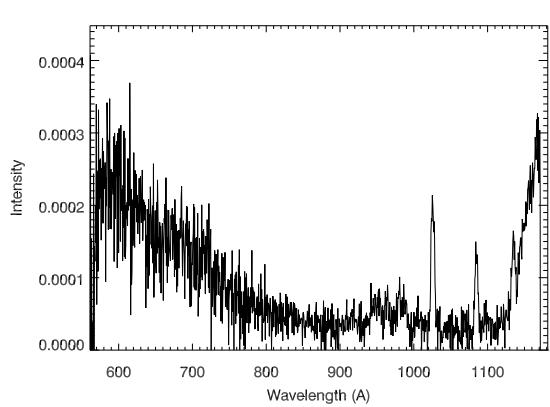


Figure 309: Spectra

body phase angle (deg): 123.1
distance (km): 131224.
Lon sub-s/c (180E): 147.3
Lat sub-s/c: 0.4
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 310: Geometry data

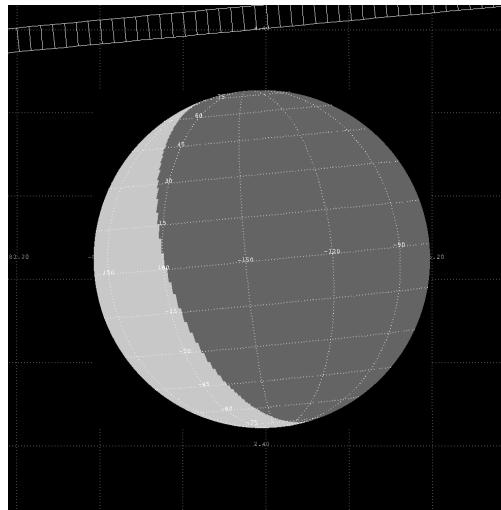


Figure 311: Frame 3

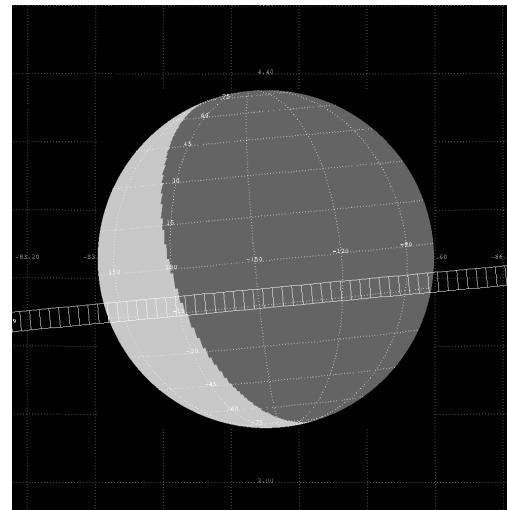


Figure 312: Frame 25

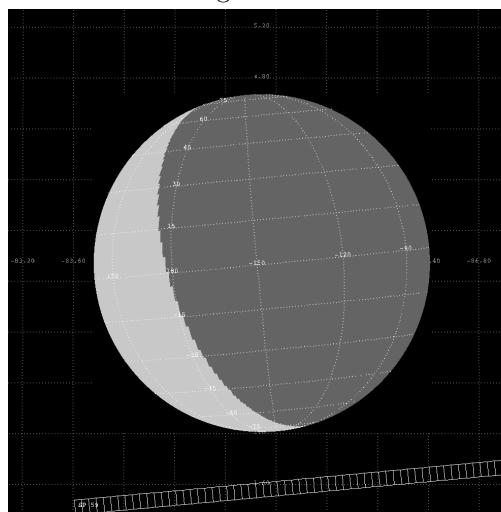


Figure 313: Frame 50

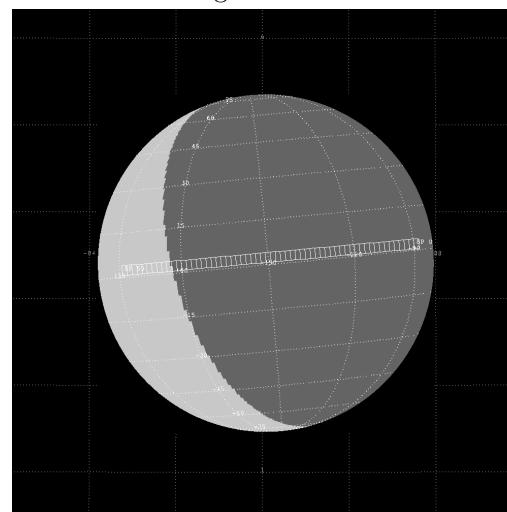


Figure 314: Frame 73

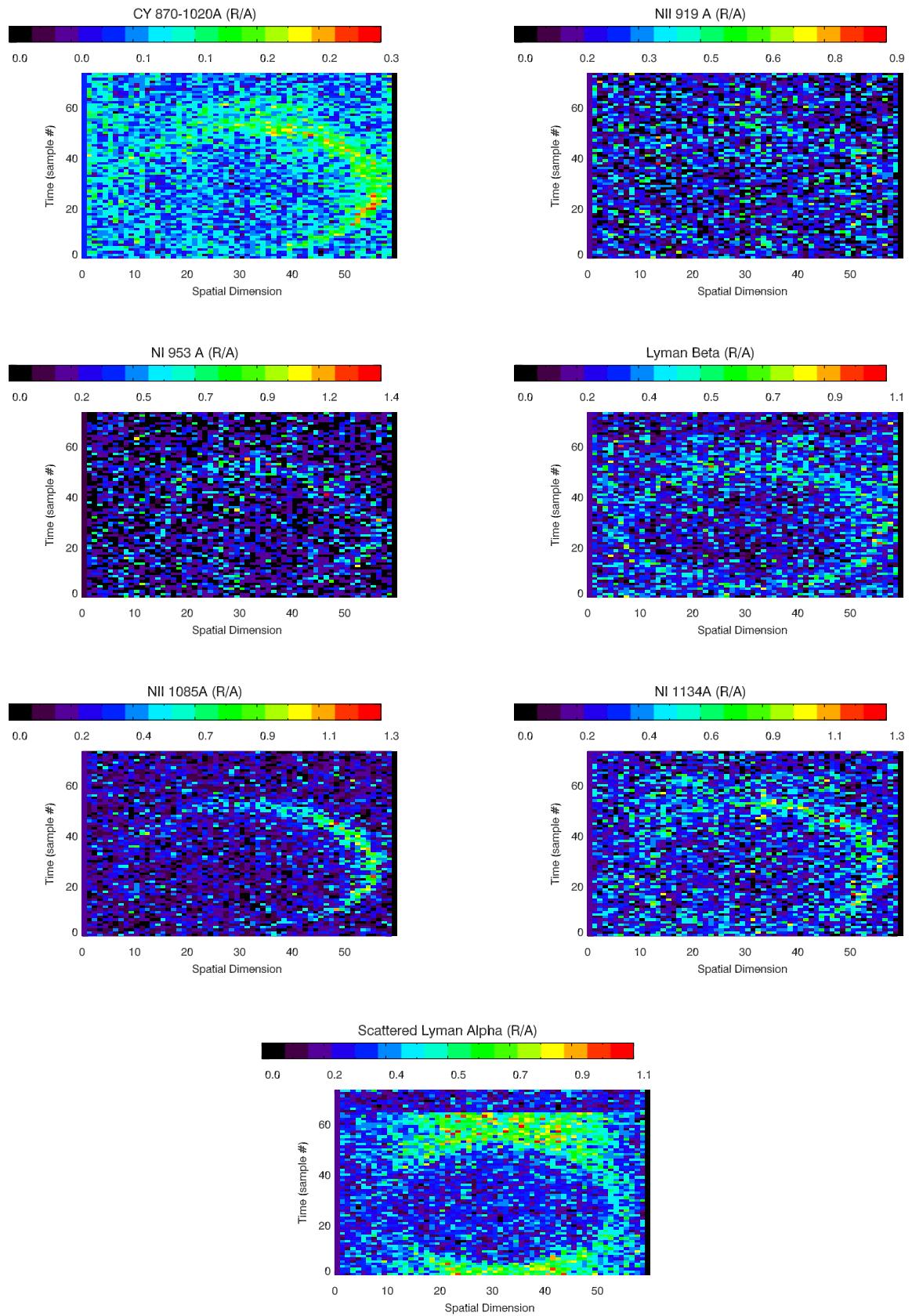


Figure 315: Panel of 7 detector images

FUV2007_199_16_28_23_UVIS_048TI_EUVFUV001_PRIME

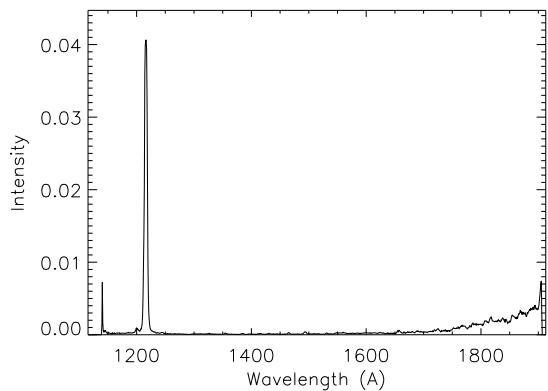


Figure 316: Spectra

body phase angle (deg): 123.1
distance (km): 131224.
Lon sub-s/c (180E): 147.3
Lat sub-s/c: 0.4
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 317: Geometry data

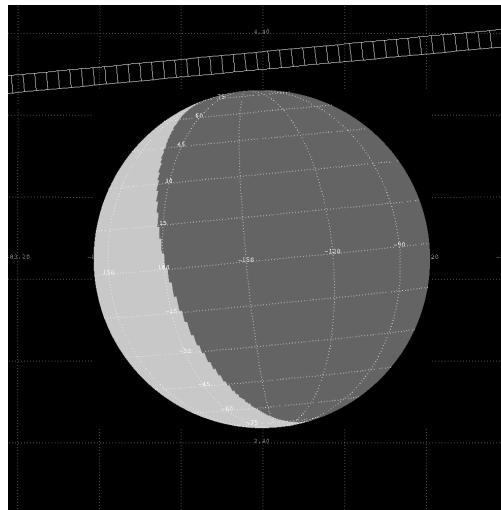


Figure 318: Frame 5

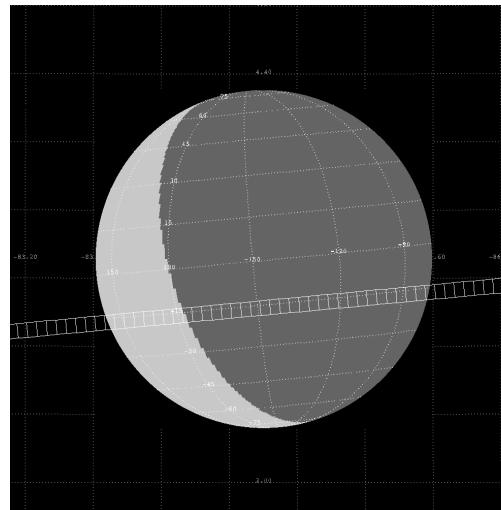


Figure 319: Frame 25

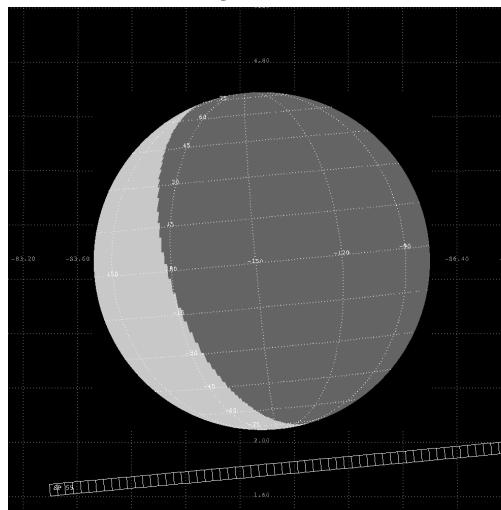


Figure 320: Frame 45

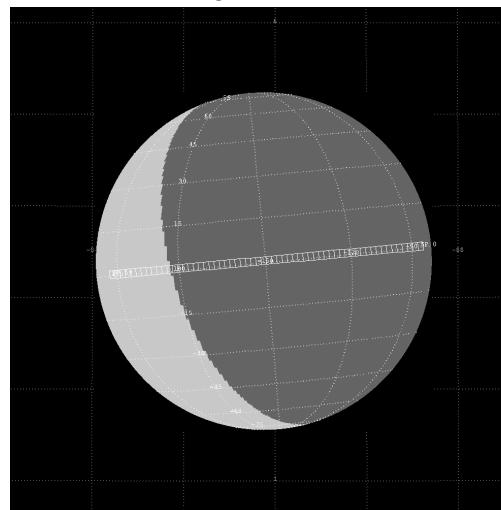


Figure 321: Frame 70

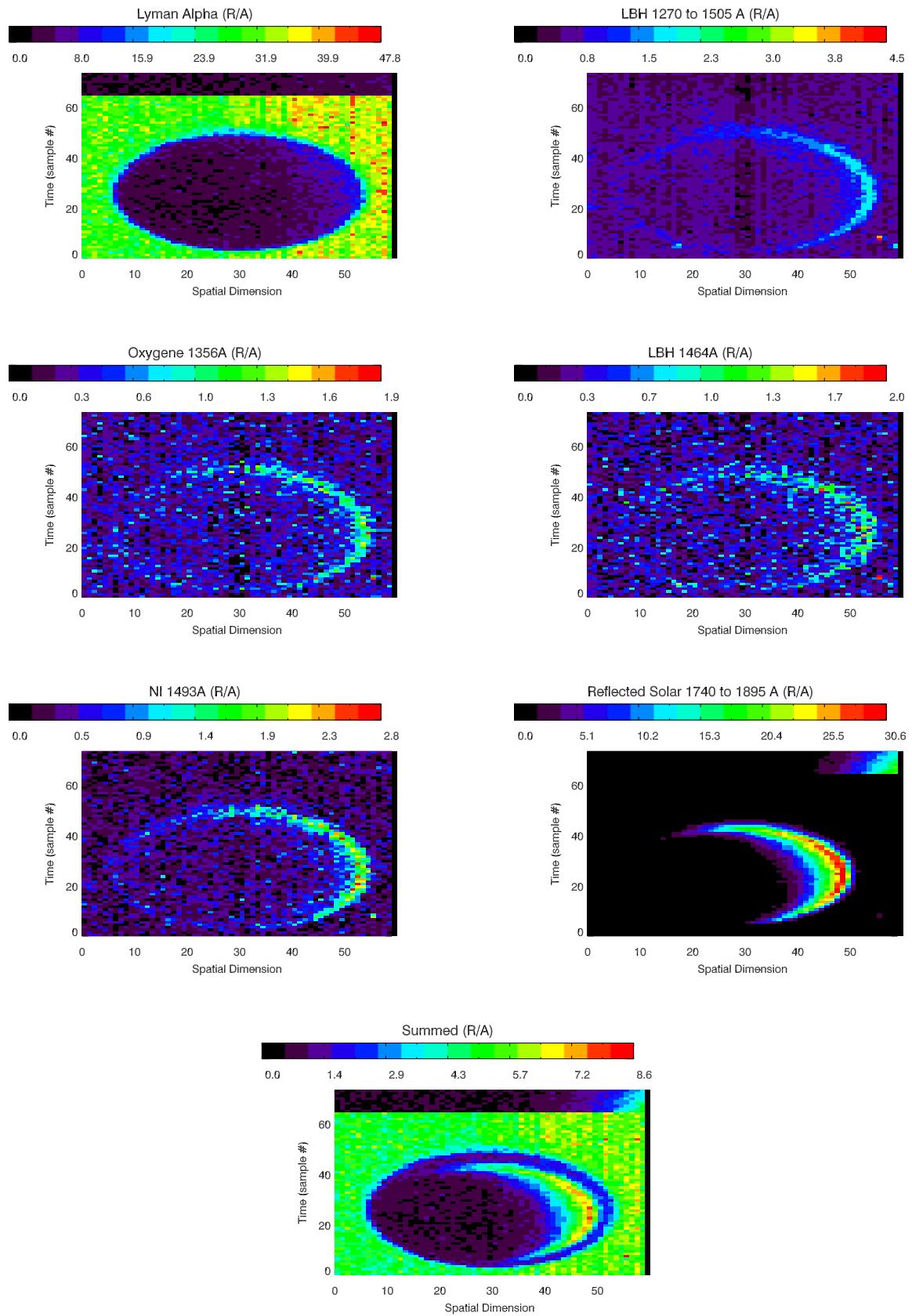


Figure 322: Panel of 7 detector images

EUV2007_199_21_46_07_UVIS_048TI_EUVFUV003_PRIME

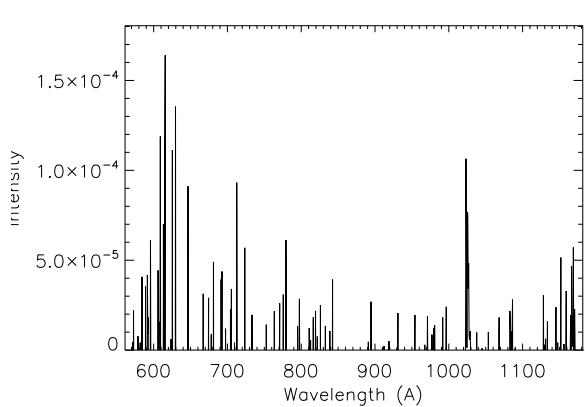


Figure 323: Spectra

body phase angle (deg): 121.8
distance (km): 70588.
Lon sub-s/c (180E): 151.4
Lat sub-s/c: 0.4
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 324: Geometry data

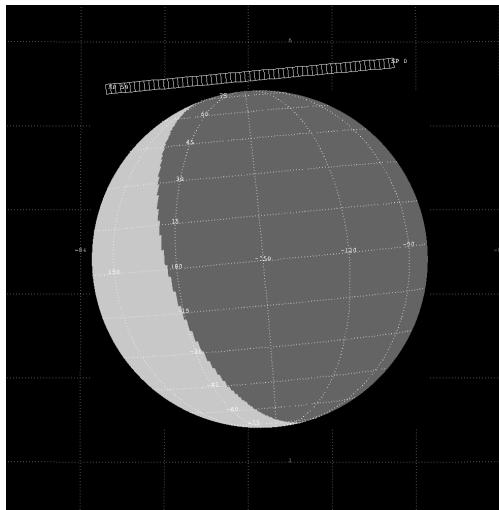


Figure 325: Frame 0

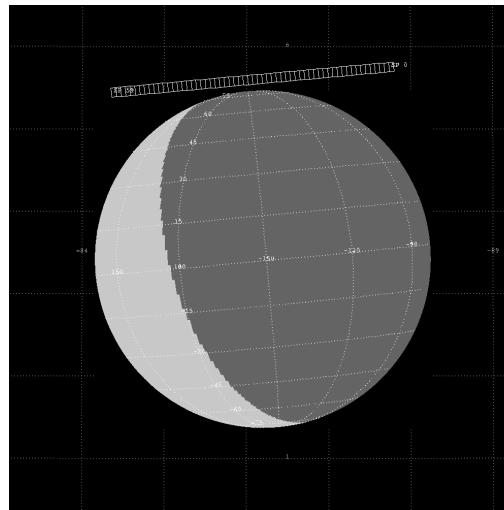


Figure 326: Frame 1

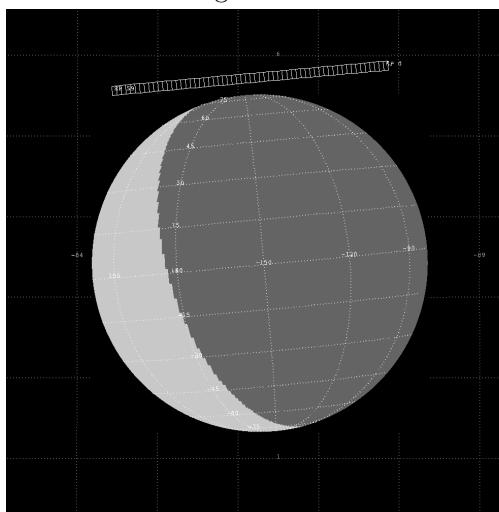


Figure 327: Frame 2

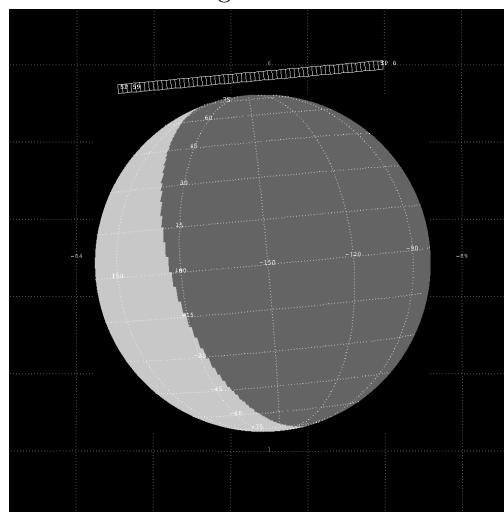


Figure 328: Frame 4

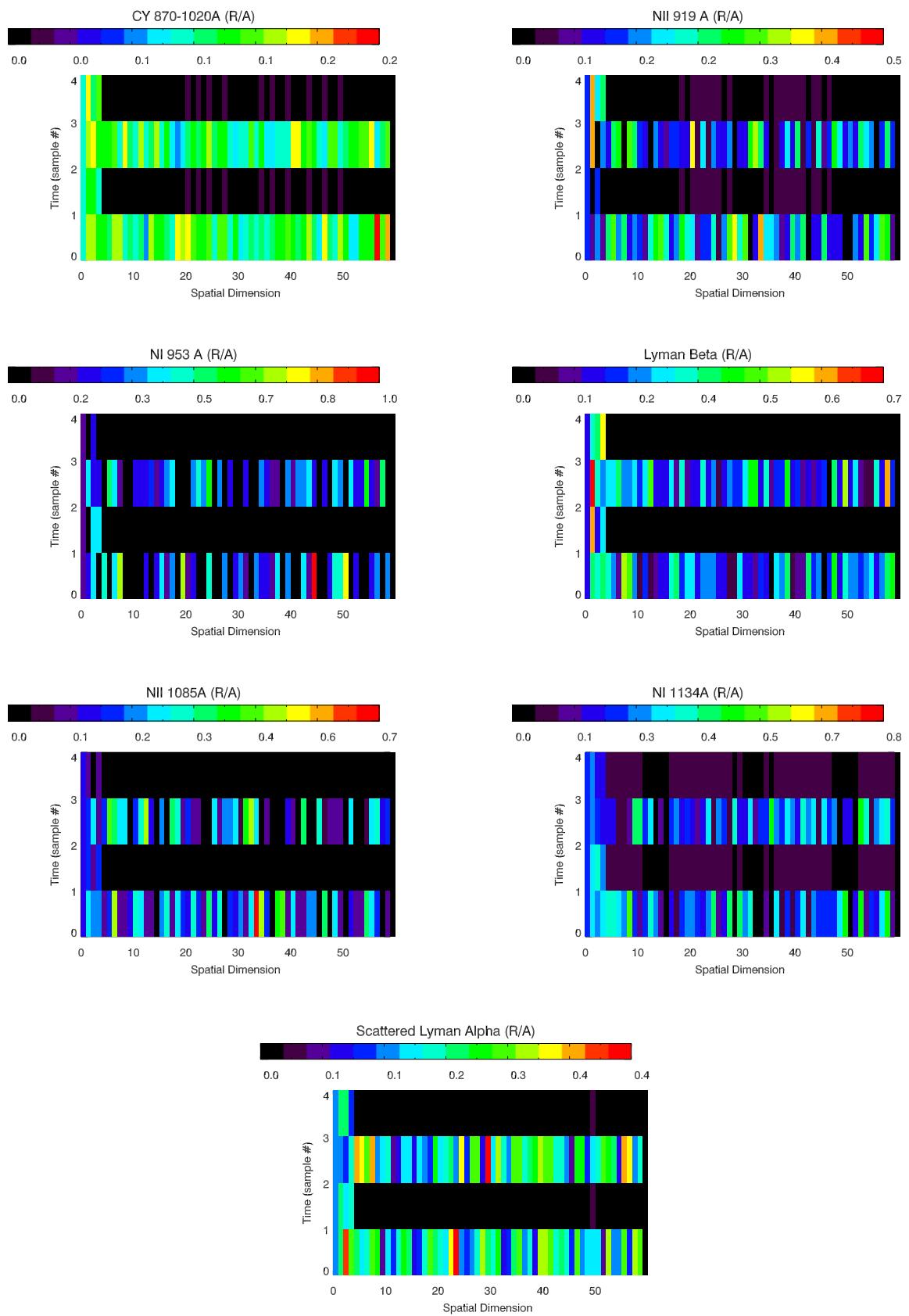


Figure 329: Panel of 7 detector images

FUV2007_199_21_46_07_UVIS_048TI_EUVFUV003_PRIME

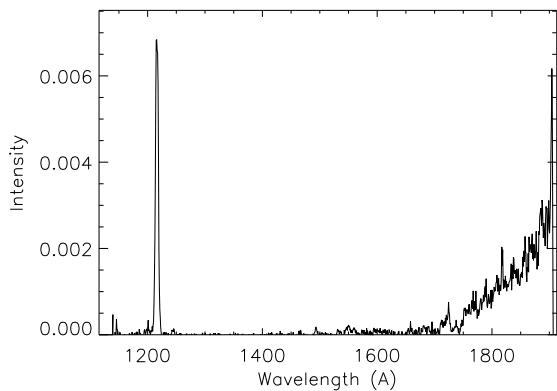


Figure 330: Spectra

body phase angle (deg): 121.8
distance (km): 70588.
Lon sub-s/c (180E): 151.4
Lat sub-s/c: 0.4
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 331: Geometry data

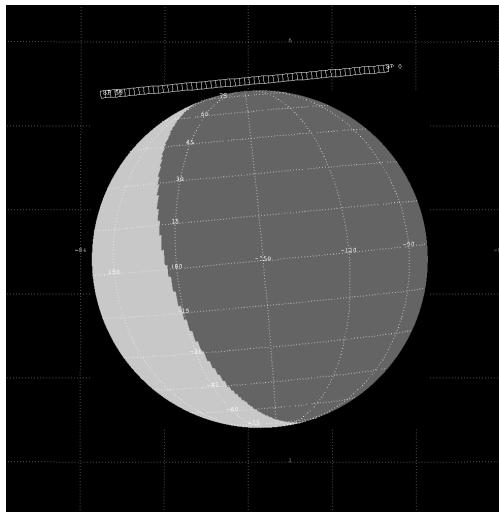


Figure 332: Frame 0

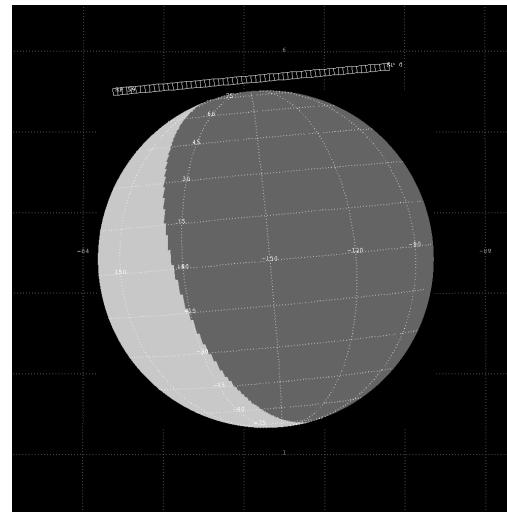


Figure 333: Frame 2

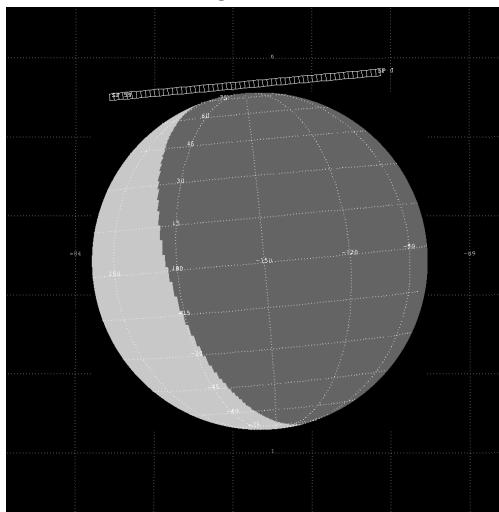


Figure 334: Frame 3

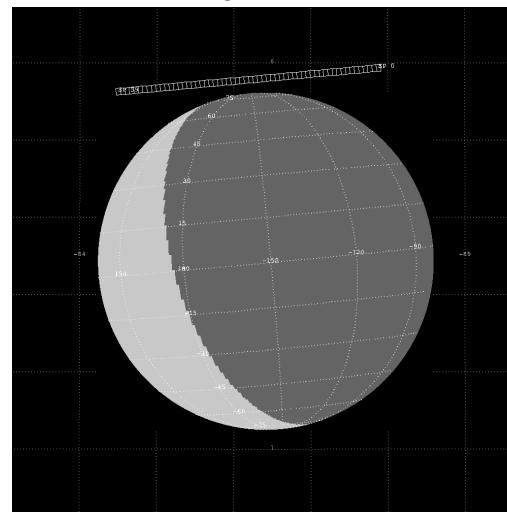


Figure 335: Frame 4

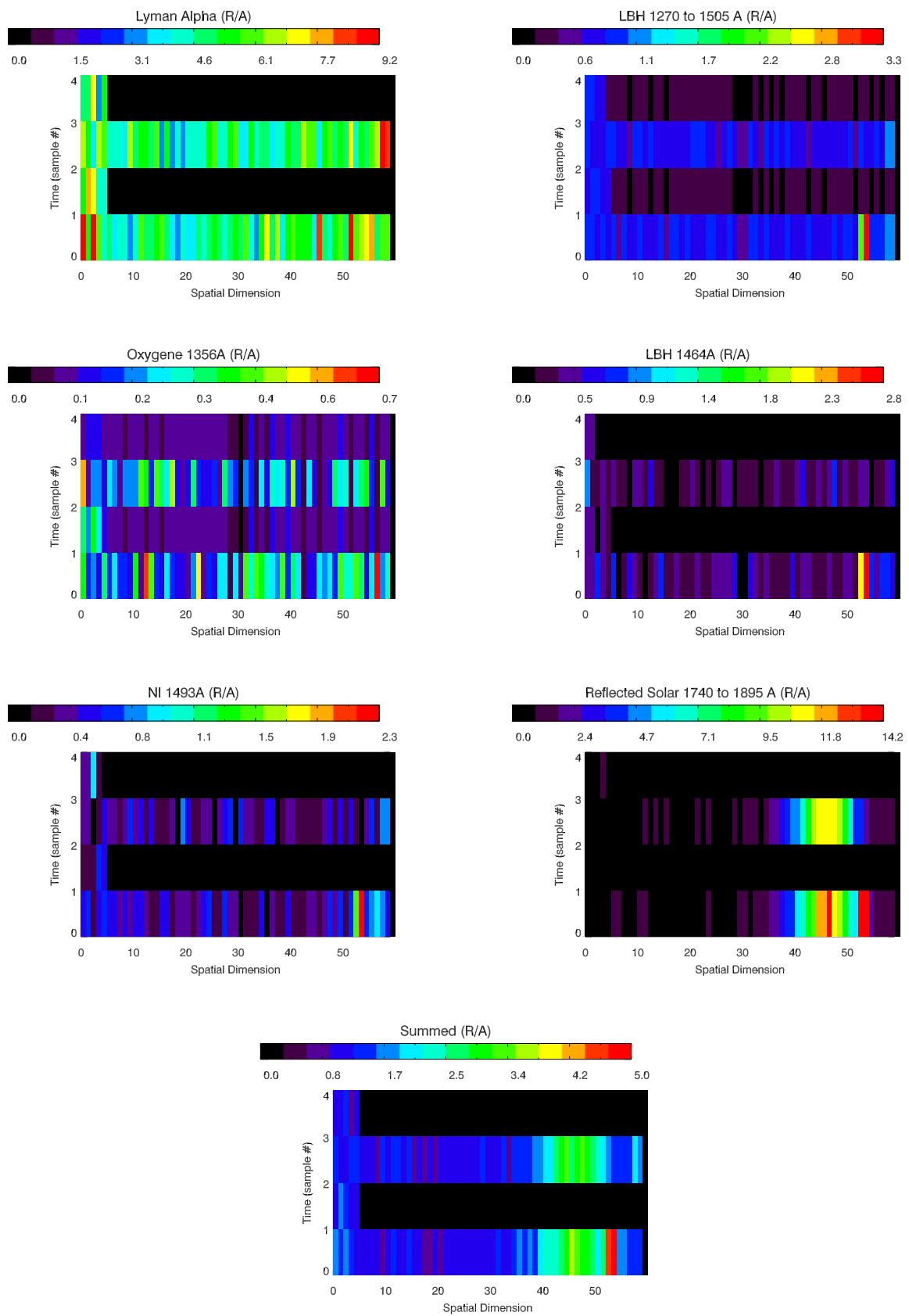


Figure 336: Panel of 7 detector images

EUV2007_274_19_59_28_UVIS_050TI_EUVFUV001_PRIME

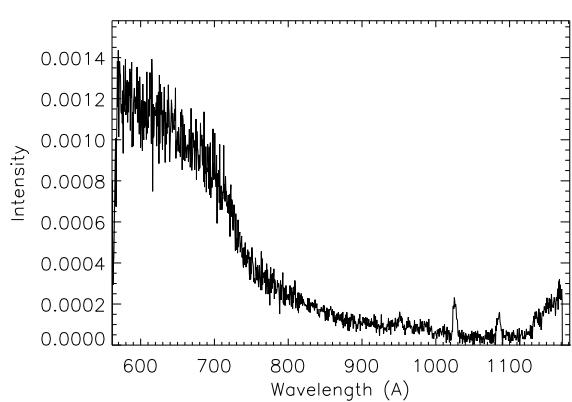


Figure 337: Spectra

body phase angle (deg): 151.4
distance (km): 168285.
Lon sub-s/c (180E): 11.4
Lat sub-s/c: 3.3
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 212

Figure 338: Geometry data

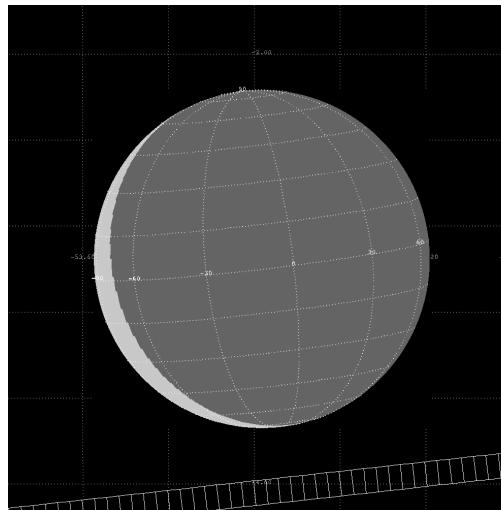


Figure 339: Frame 0

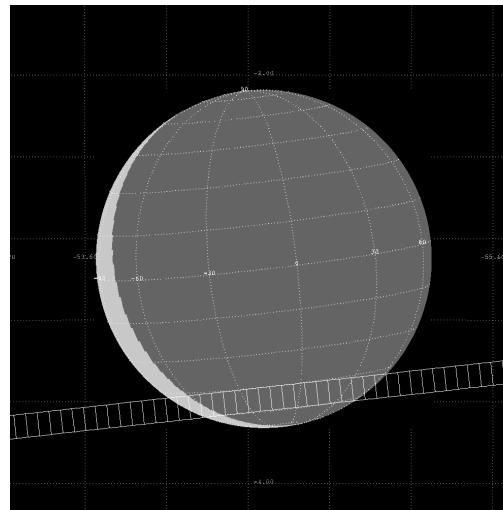


Figure 340: Frame 7

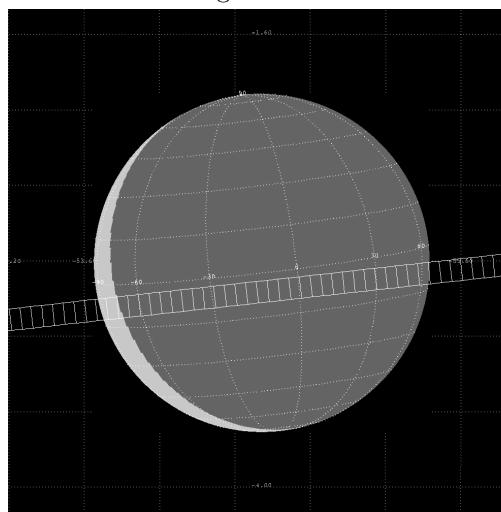


Figure 341: Frame 17

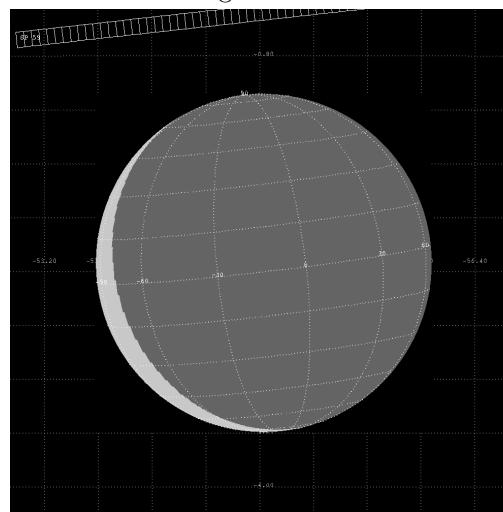


Figure 342: Frame 27

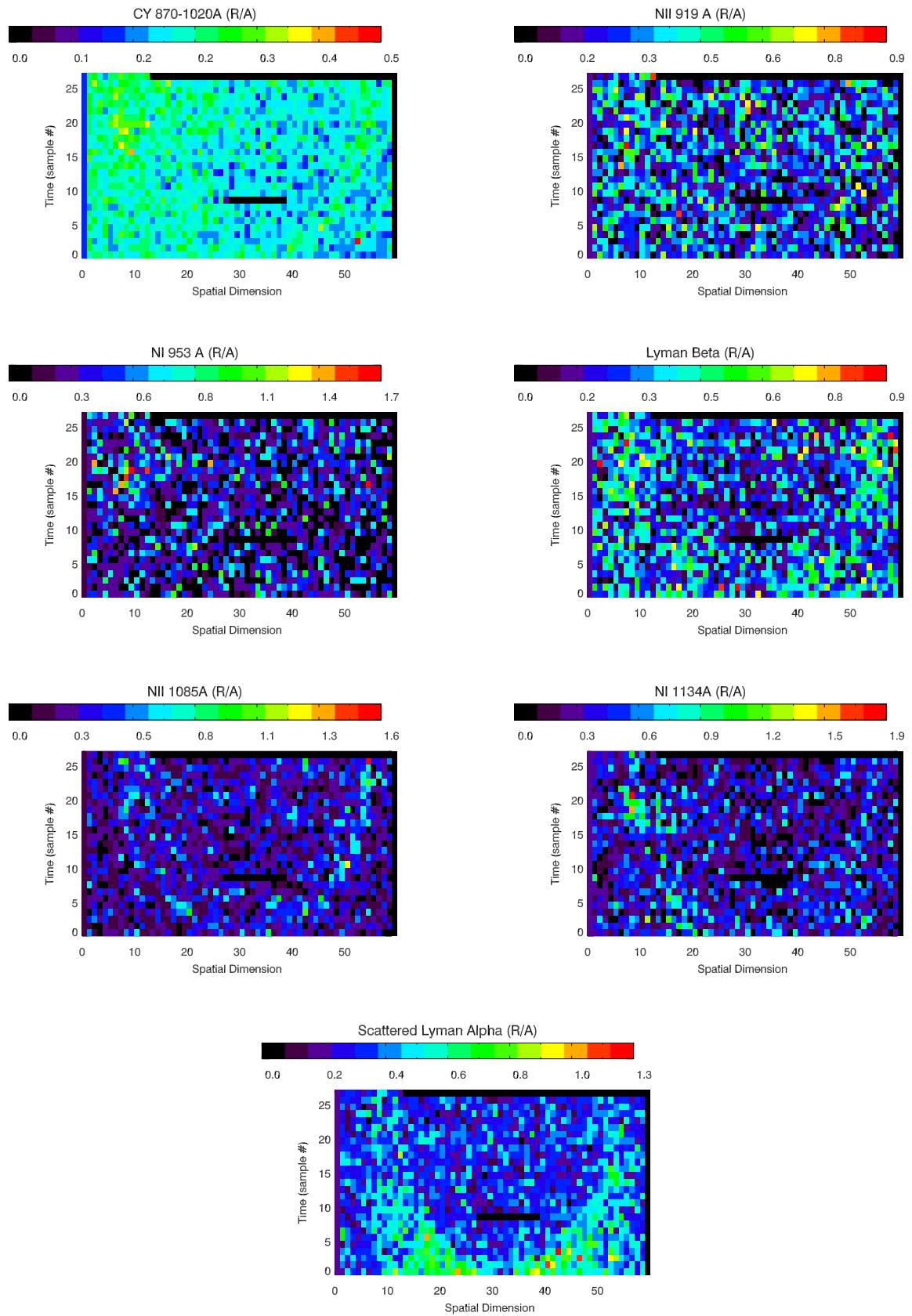


Figure 343: Panel of 7 detector images

FUV2007_274_19_59_28_UVIS_050TI_EUVFUV001_PRIME

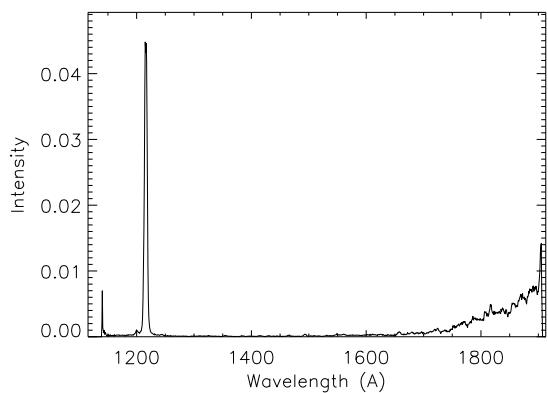


Figure 344: Spectra

body phase angle (deg): 151.4
distance (km): 168285.
Lon sub-s/c (180E): 11.4
Lat sub-s/c: 3.3
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 212

Figure 345: Geometry data

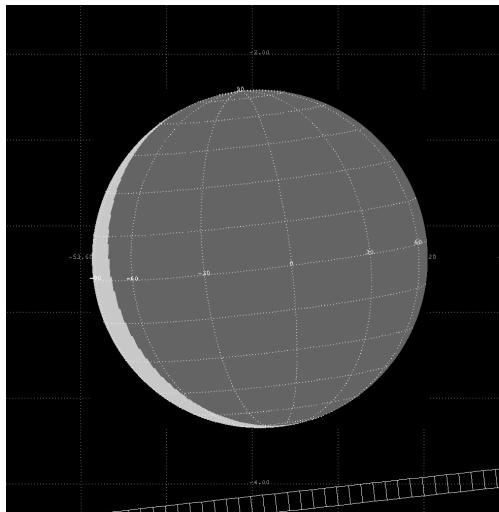


Figure 346: Frame 0

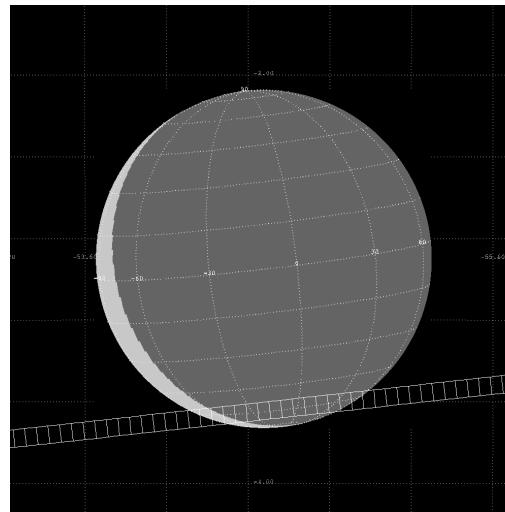


Figure 347: Frame 7

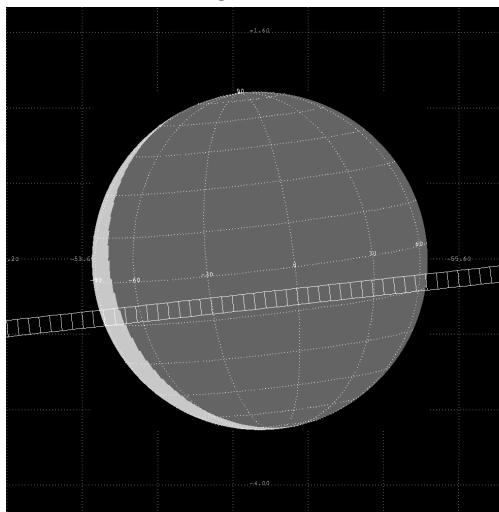


Figure 348: Frame 17

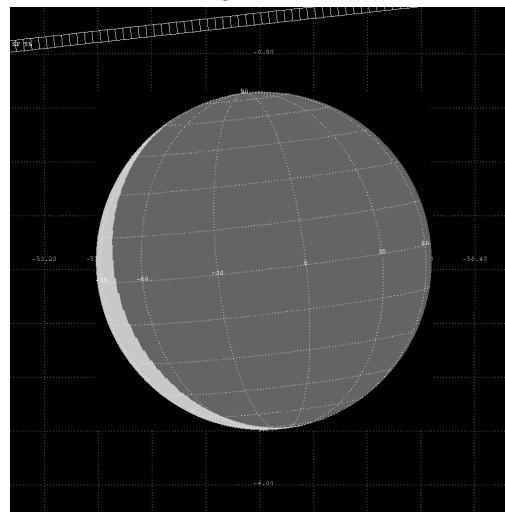


Figure 349: Frame 27

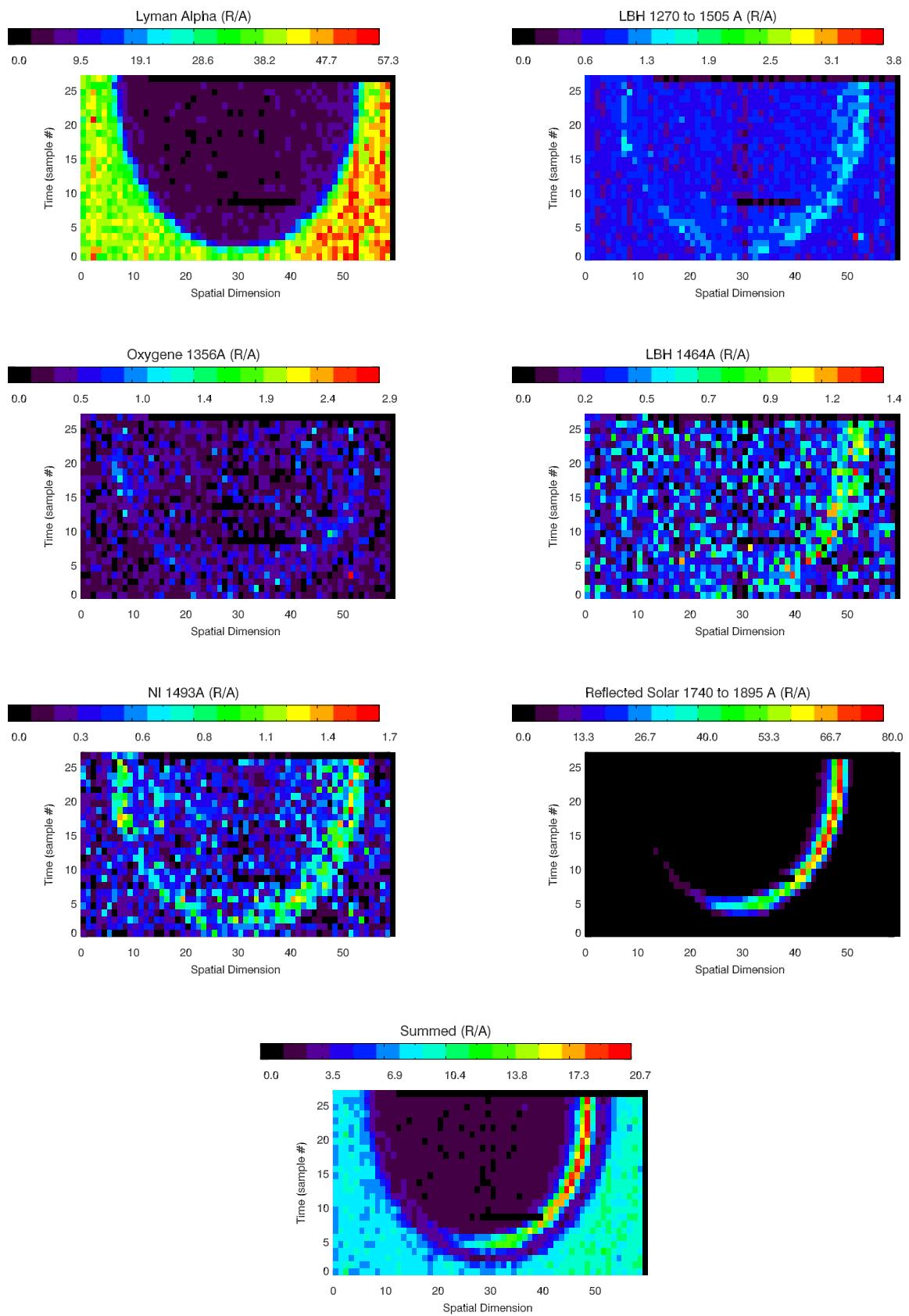


Figure 350: Panel of 7 detector images

EUV2007_338_15_19_13_UVIS_053TI_EUVFUV001_PRIME

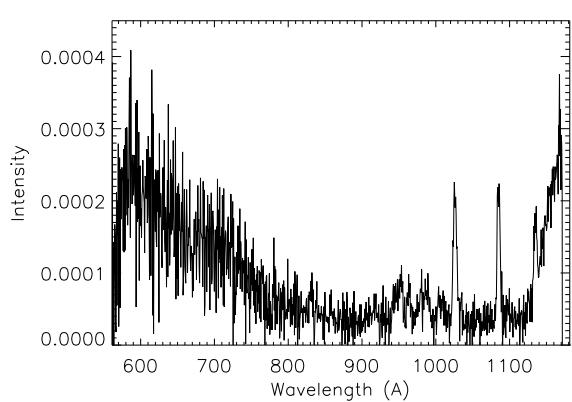


Figure 351: Spectra

body phase angle (deg): 137.0
distance (km): 156950.
Lon sub-s/c (180E): 22.5
Lat sub-s/c: -6.8
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 230

Figure 352: Geometry data

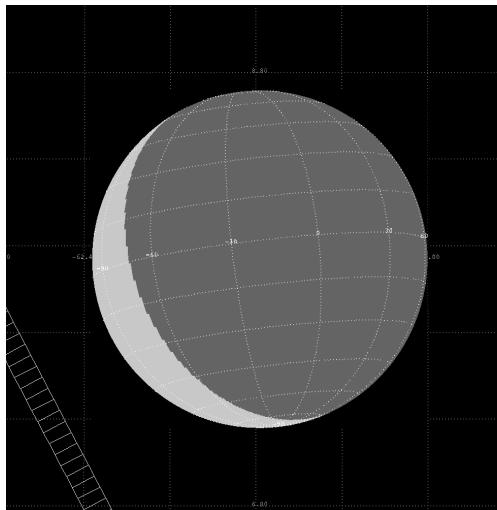


Figure 353: Frame 0

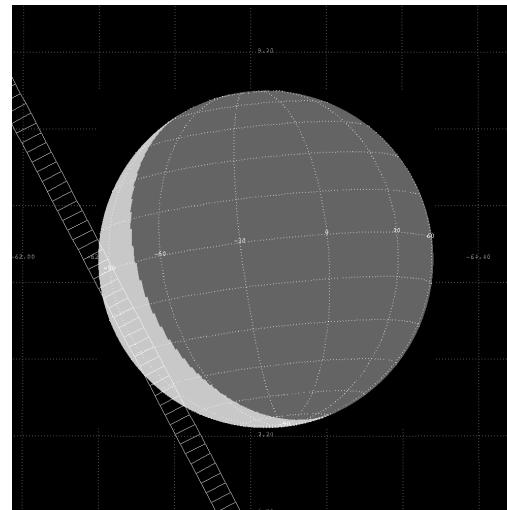


Figure 354: Frame 15

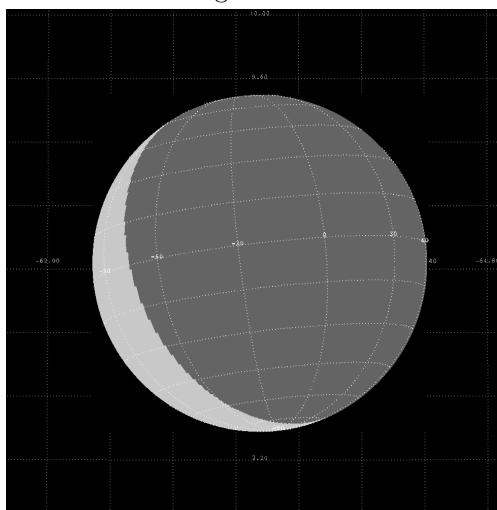


Figure 355: Frame 31

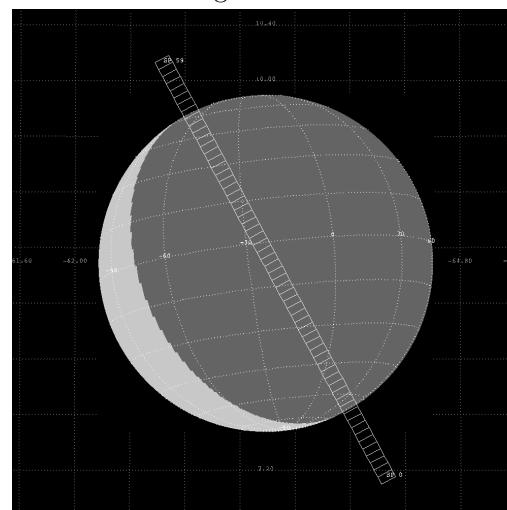


Figure 356: Frame 43

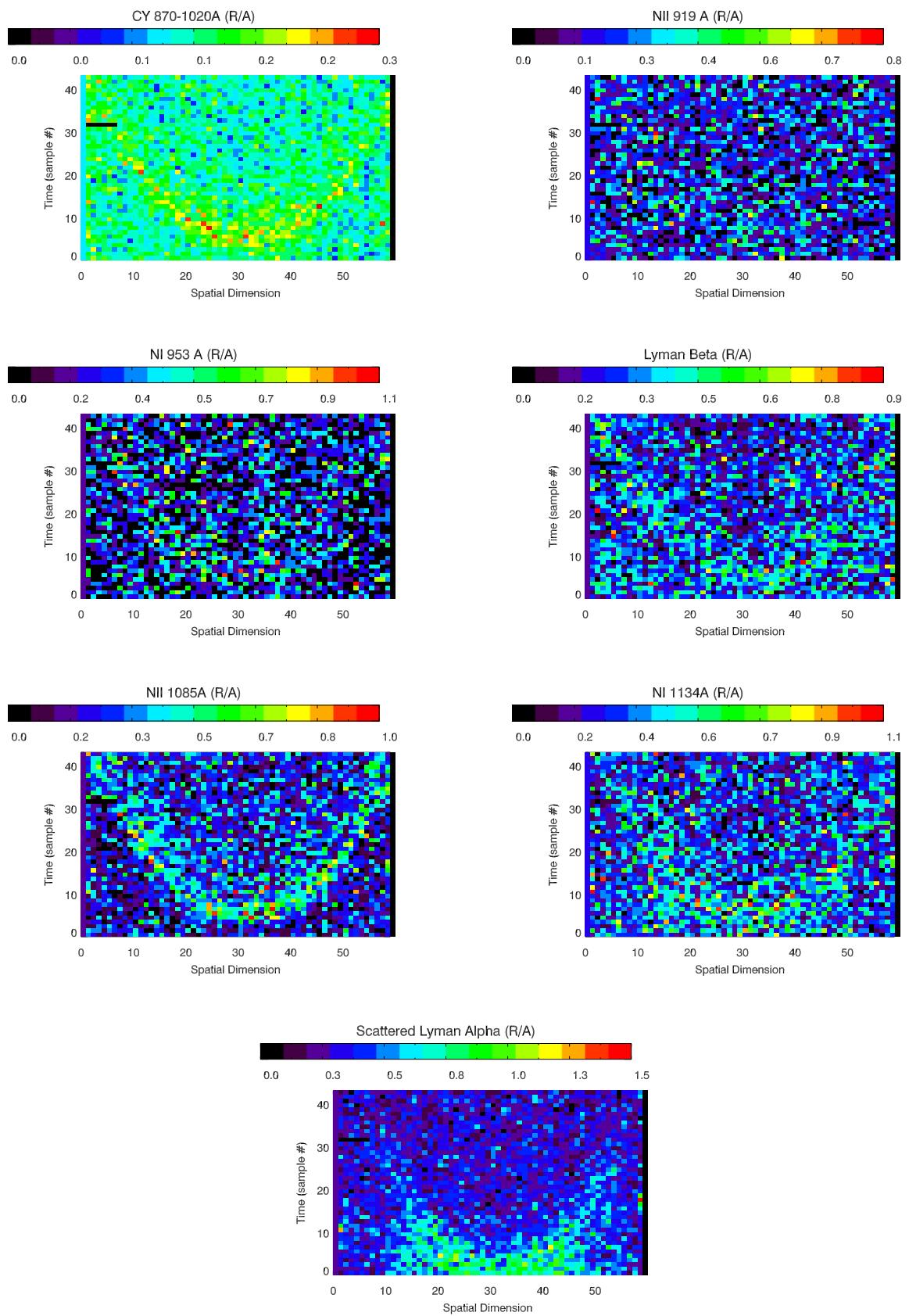


Figure 357: Panel of 7 detector images

FUV2007_338_15_19_13_UVIS_053TI_EUVFUV001_PRIME

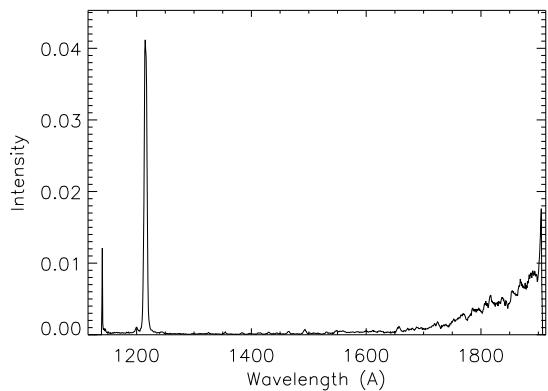


Figure 358: Spectra

body phase angle (deg): 137.0
distance (km): 156950.
Lon sub-s/c (180E): 22.5
Lat sub-s/c: -6.8
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 230

Figure 359: Geometry data

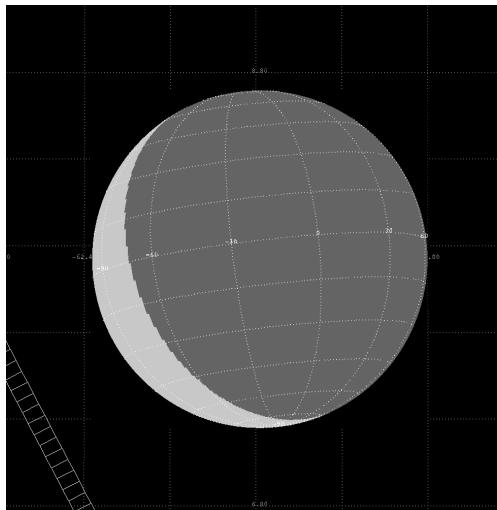


Figure 360: Frame 0

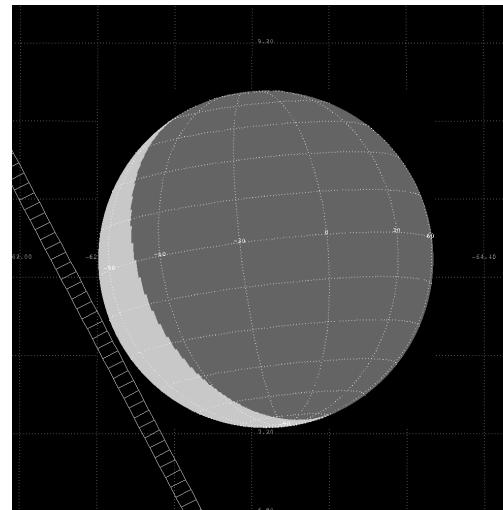


Figure 361: Frame 13

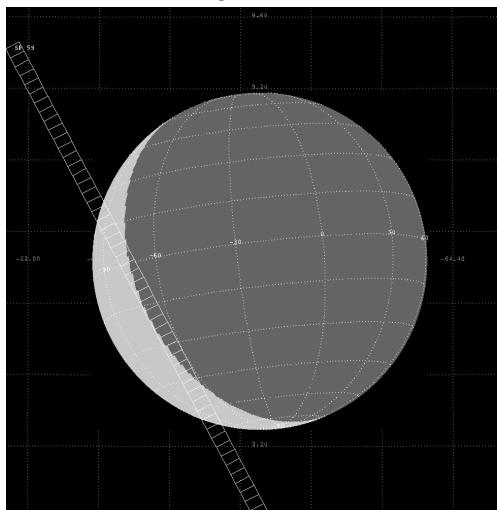


Figure 362: Frame 23

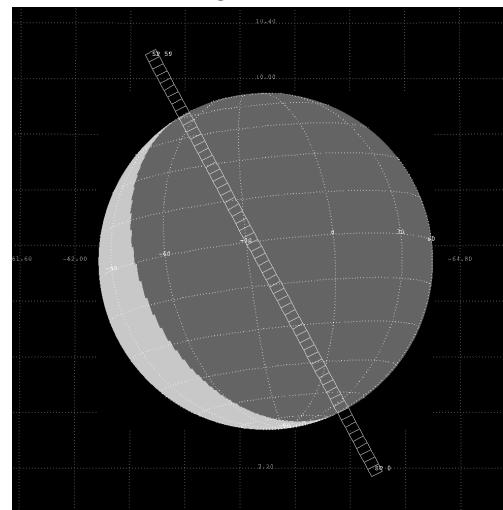


Figure 363: Frame 43

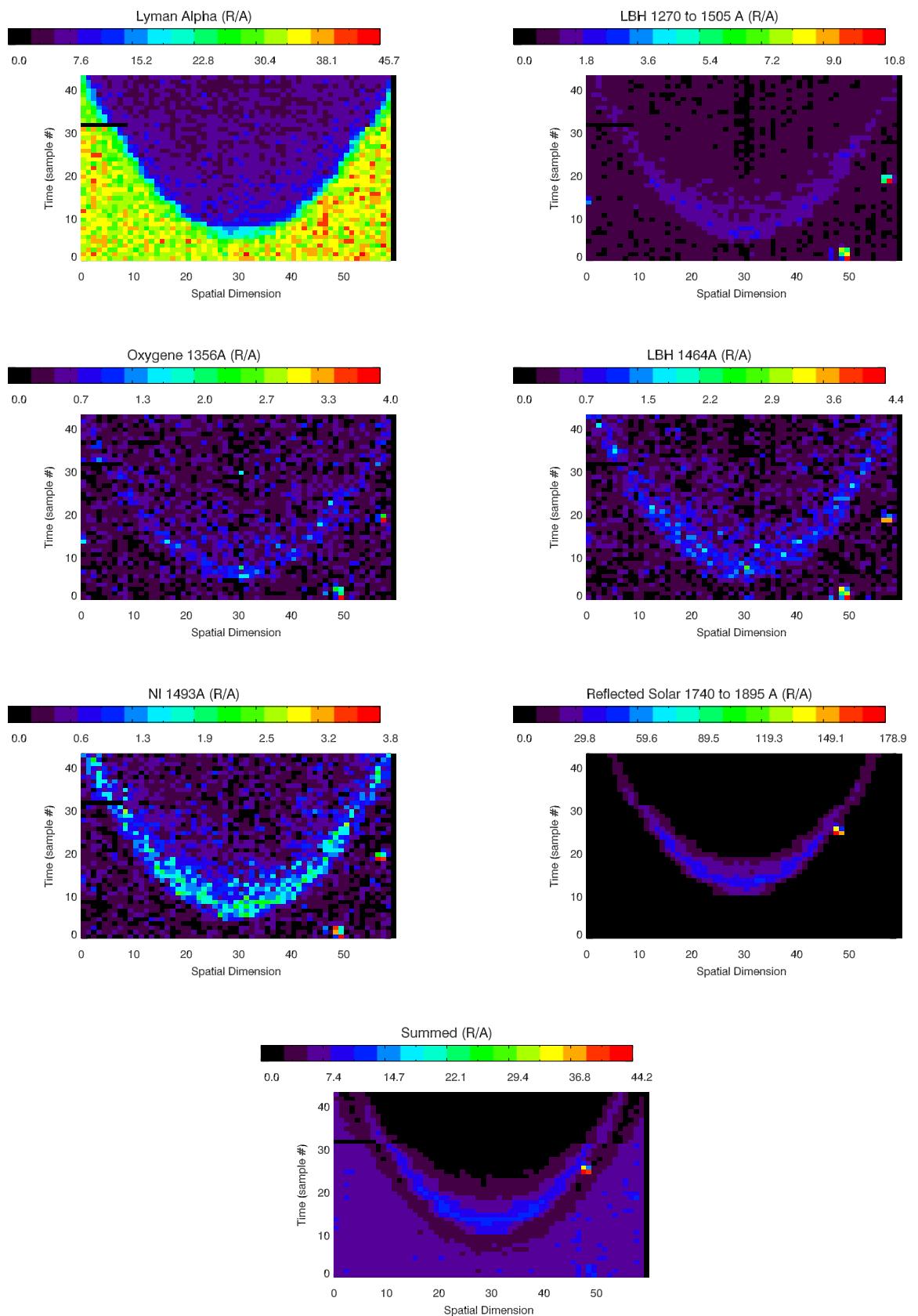


Figure 364: Panel of 7 detector images

Year 2008

Brief descriptif of observations:

- Day 005: Dayglow and twilight glow with bright spots in the FUV
- Day 005-2: No nightglow, nothing to see? very bright line around 1300 A...
- Day 53: Nice dayside limb, but parasited by a bright pixel
- Day 148: Dayglow and faint nightglow
- Day 308: Dayglow and nightglow, with possible enhancement in atomic nitrogen
- Day 340: Dayglow and nightglow

EUV2008_005_12_35_33_UVIS_055TI_EUVFUV001_PRIME

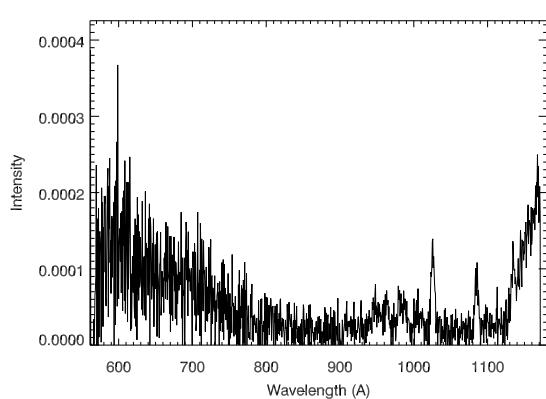


Figure 365: Spectra

body phase angle (deg): 127.1
distance (km): 149933.
Lon sub-s/c (180E): 26.5
Lat sub-s/c: -20.5
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 230

Figure 366: Geometry data

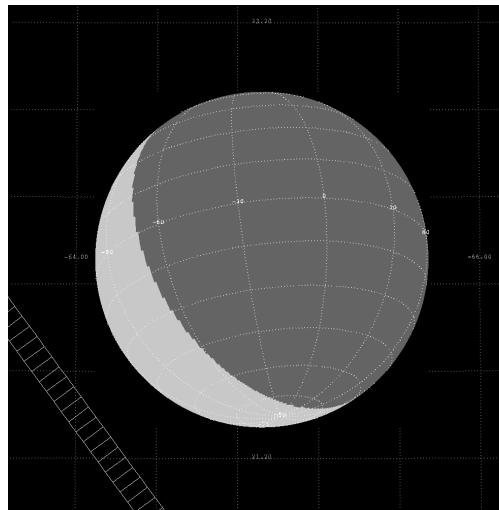


Figure 367: Frame 0

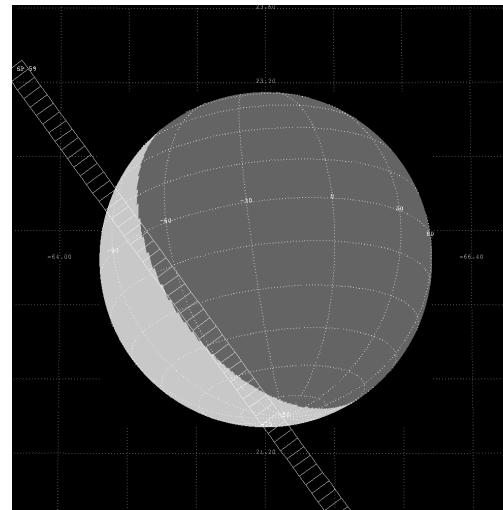


Figure 368: Frame 20

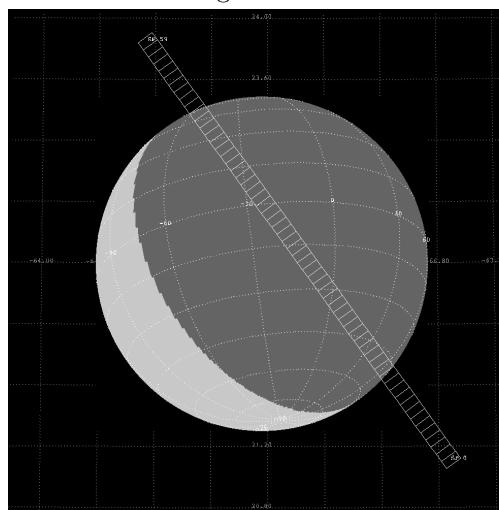


Figure 369: Frame 40

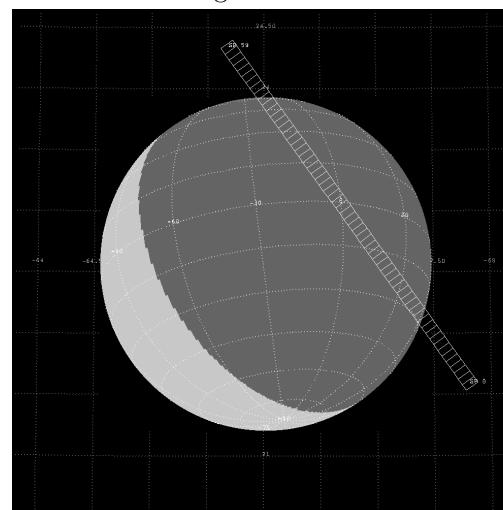


Figure 370: Frame 59

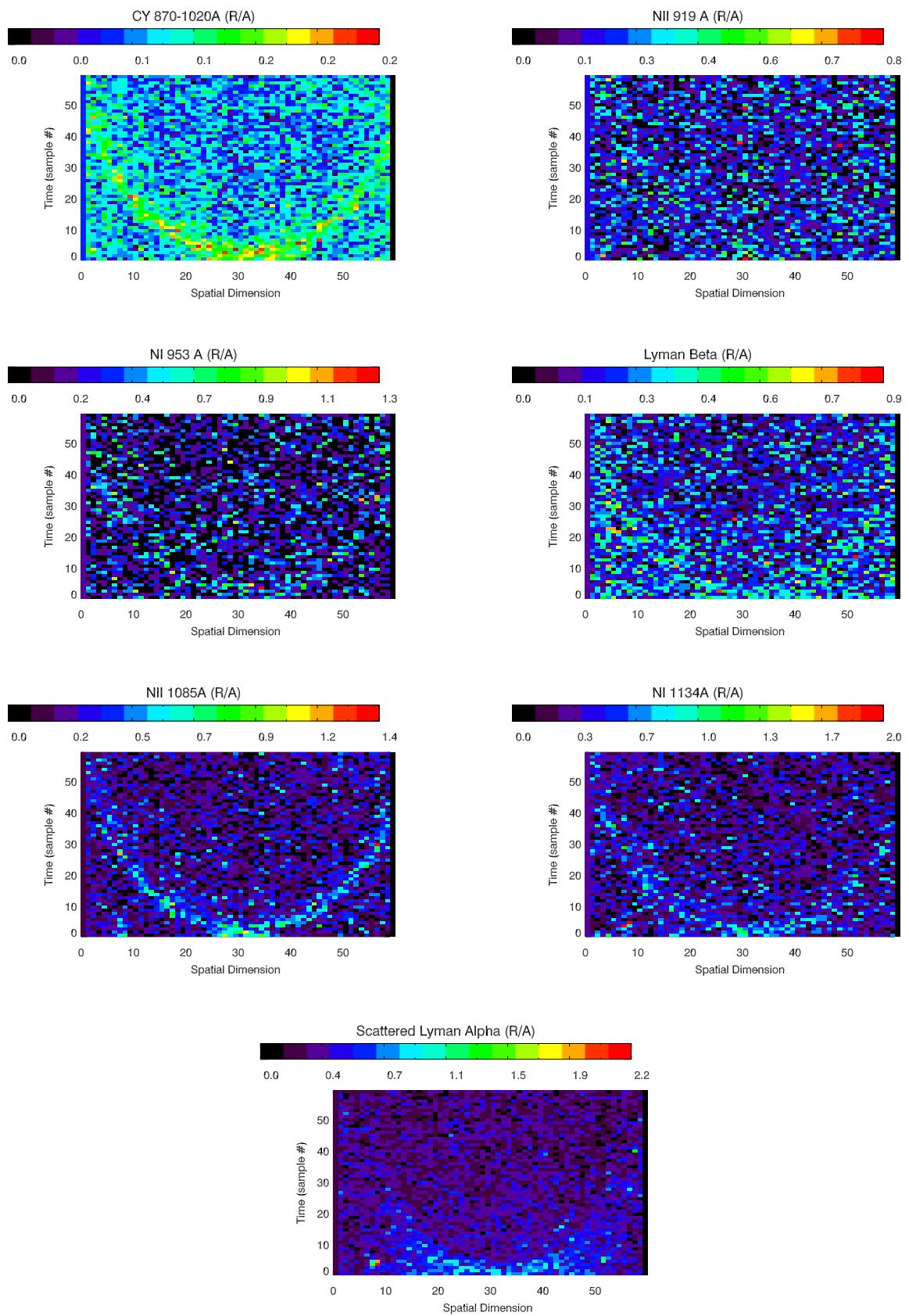


Figure 371: Panel of 7 detector images

FUV2008_005_12_35_33_UVIS_055TI_EUVFUV001_PRIME

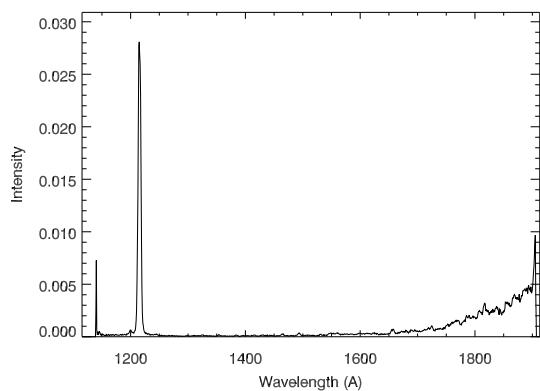


Figure 372: Spectra

body phase angle (deg): 127.1
distance (km): 150013.
Lon sub-s/c (180E): 26.5
Lat sub-s/c: -20.5
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 230

Figure 373: Geometry data

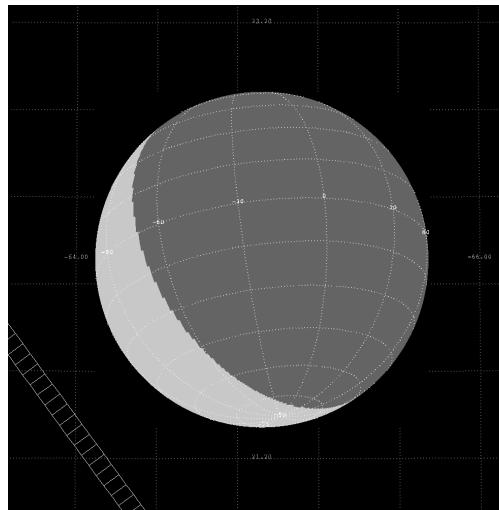


Figure 374: Frame 0

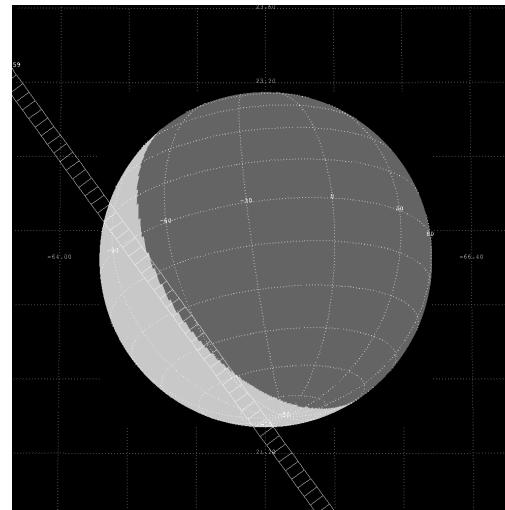


Figure 375: Frame 20

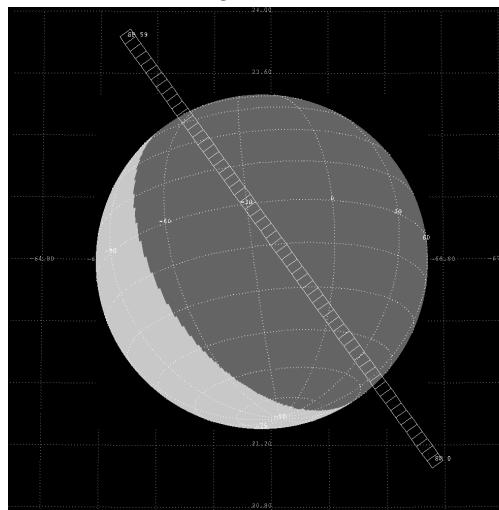


Figure 376: Frame 40

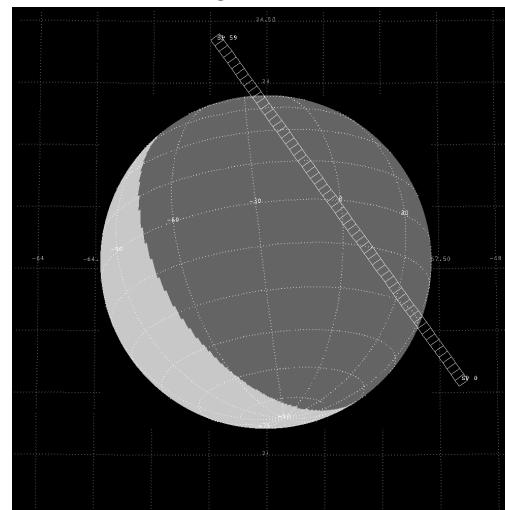


Figure 377: Frame 59

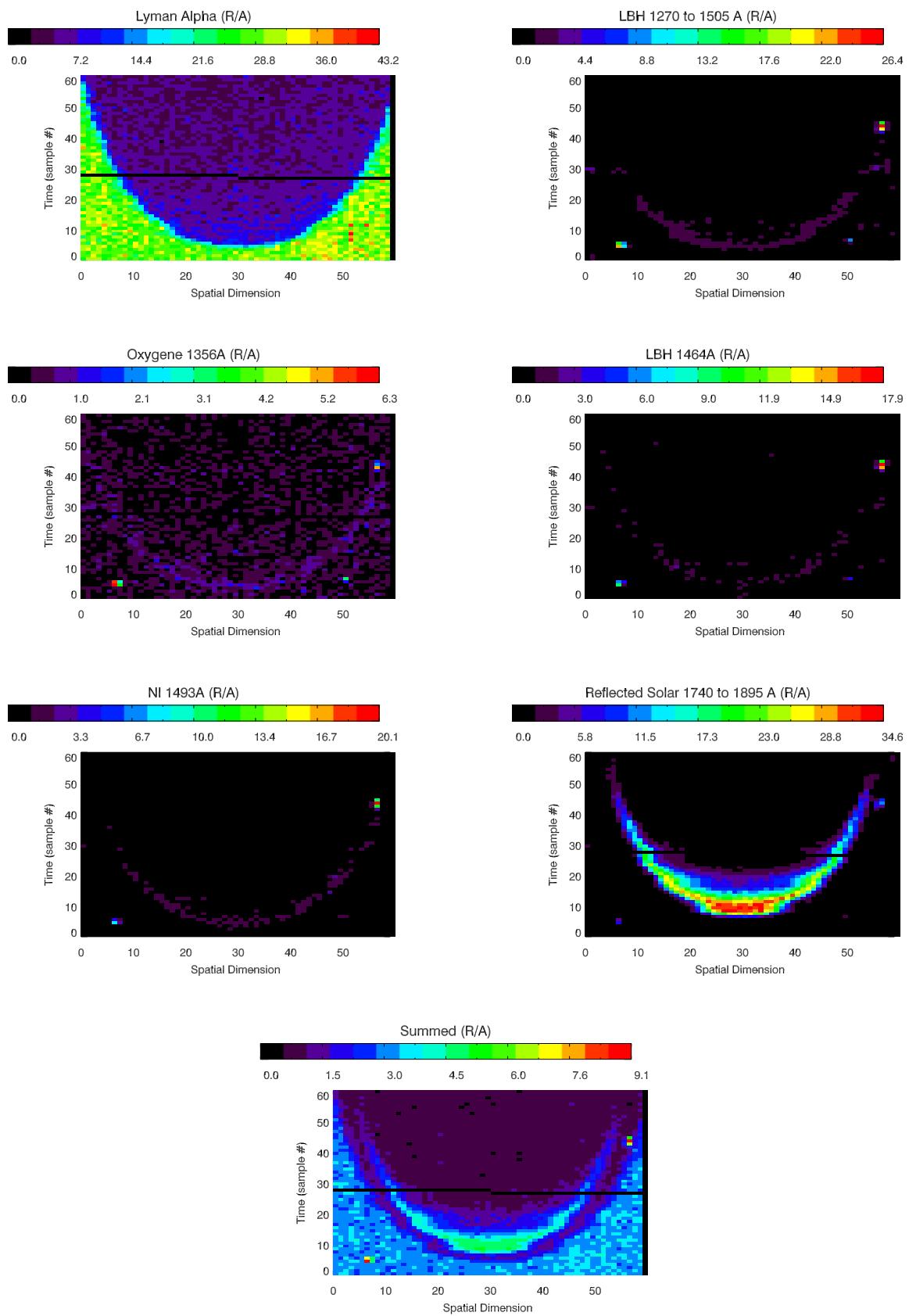


Figure 378: Panel of 7 detector images

EUV2008_005_16_34_32_UVIS_055TI_EUVFUV501_PRIME

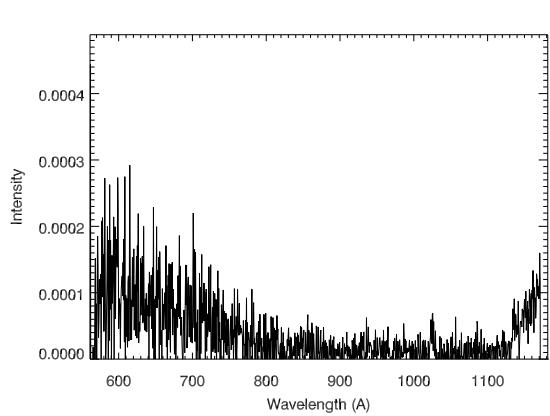
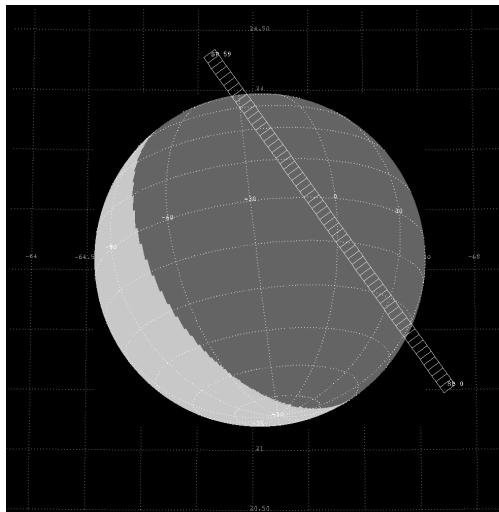


Figure 379: Spectra

body phase angle (deg): 125.9
distance (km): 85672.
Lon sub-s/c (180E): 30.7
Lat sub-s/c: -20.8
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 230

Figure 380: Geometry data



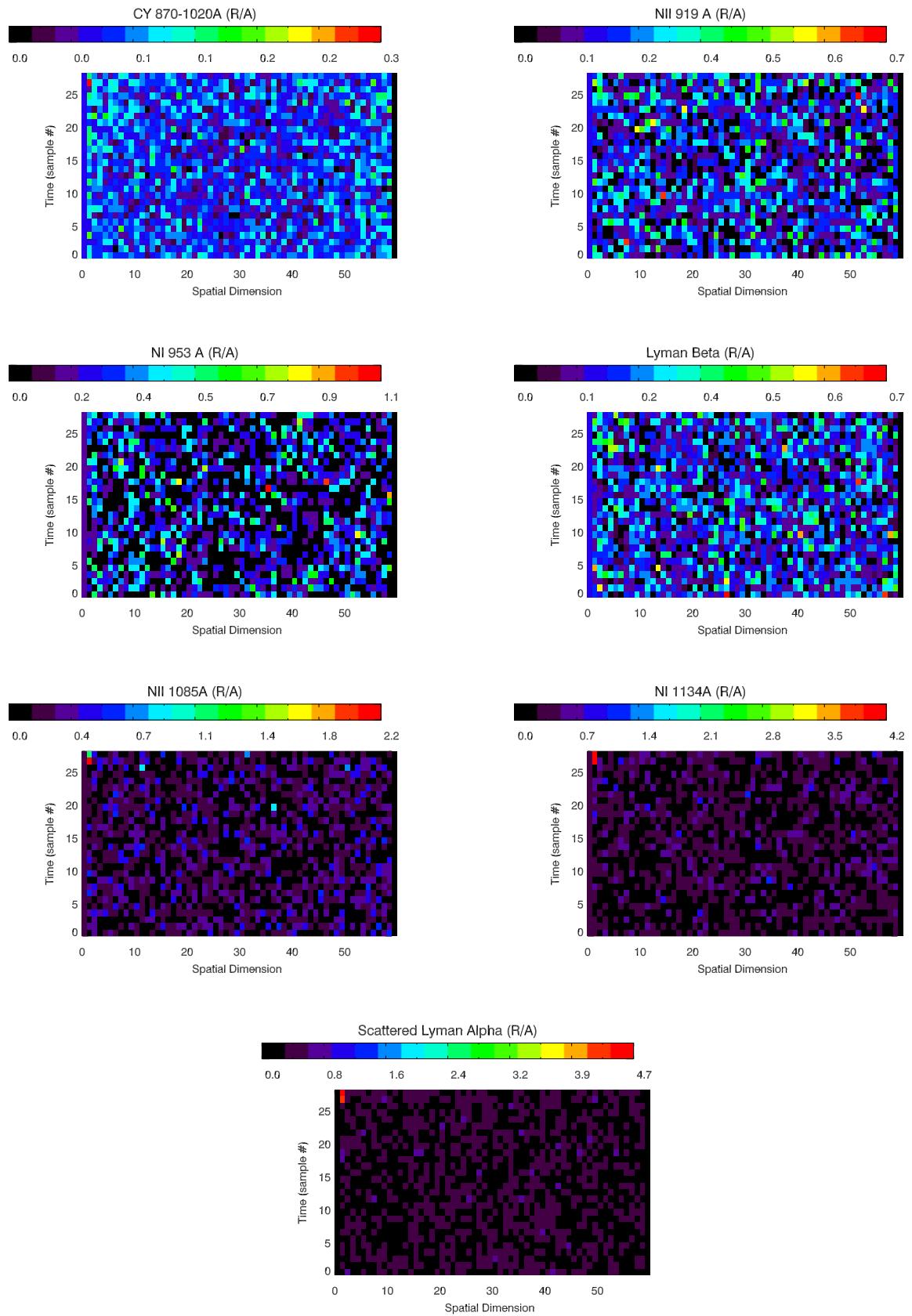


Figure 385: Panel of 7 detector images

FUV2008_005_16_34_32_UVIS_055TI_EUVFUV501_PRIME

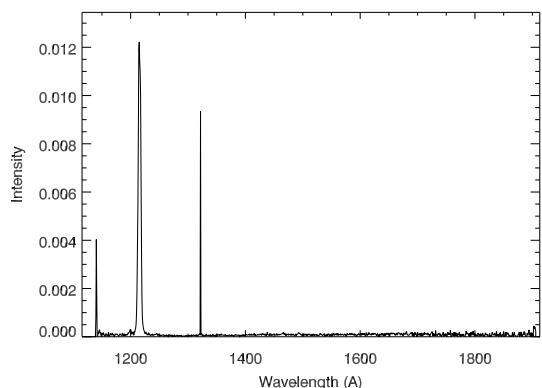


Figure 386: Spectra

body phase angle (deg): 125.9
distance (km): 85672.
Lon sub-s/c (180E): 30.7
Lat sub-s/c: -20.8
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 230

Figure 387: Geometry data

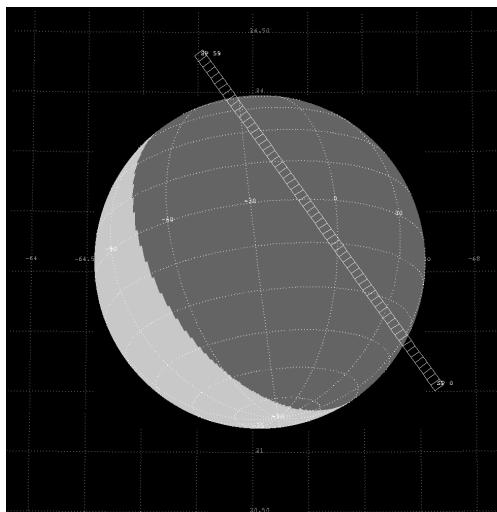


Figure 388: Frame 0

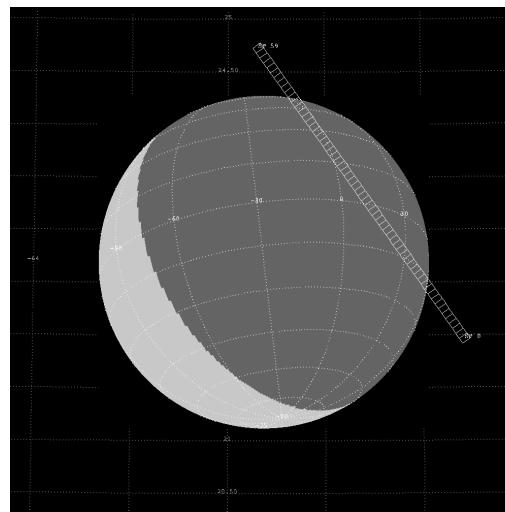


Figure 389: Frame 8

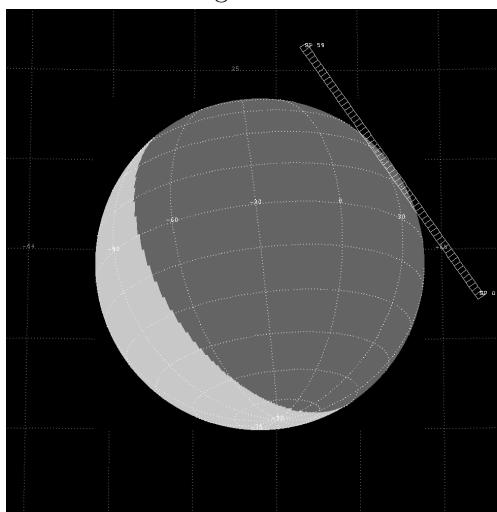


Figure 390: Frame 18

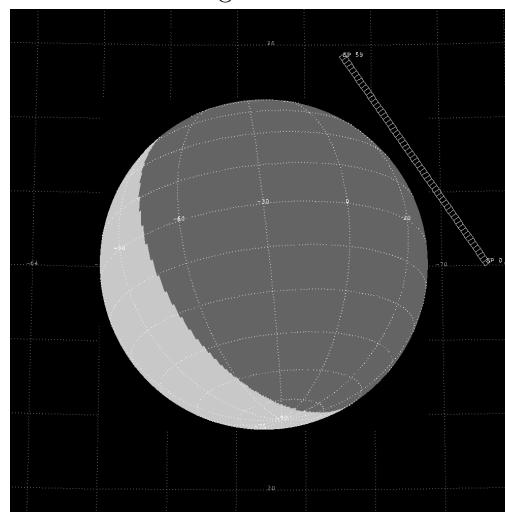


Figure 391: Frame 28

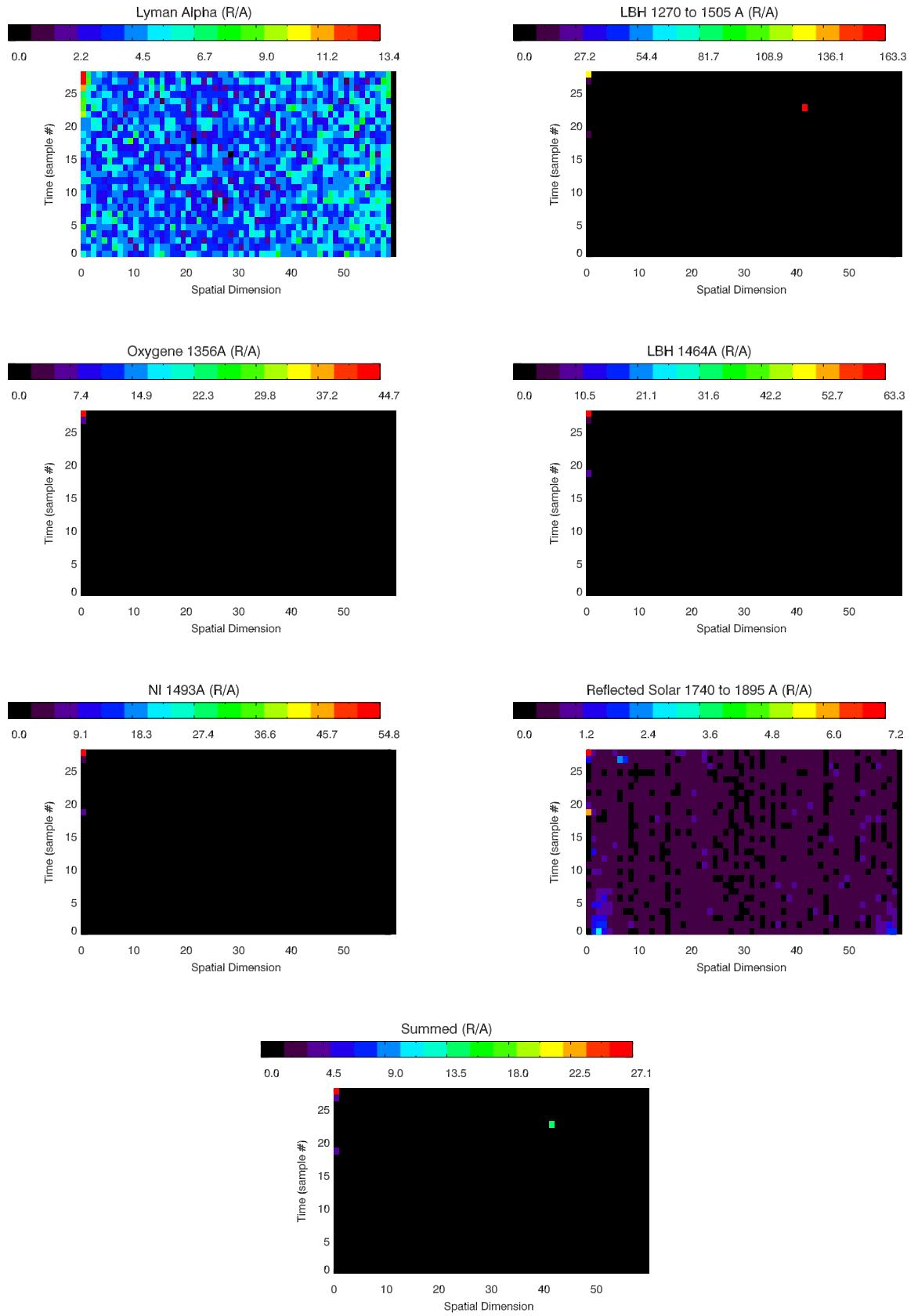


Figure 392: Panel of 7 detector images

EUV2008_053_20_08_20_UVIS_059TI_EUVFUV002_PRIME

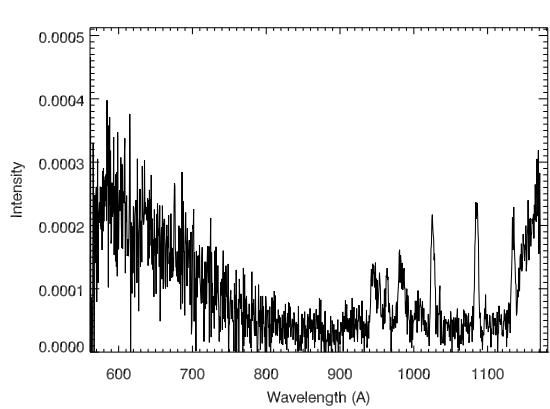


Figure 393: Spectra

body phase angle (deg): 64.7
distance (km): 80289.
Lon sub-s/c (180E): 227.4
Lat sub-s/c: 25.0
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 394: Geometry data

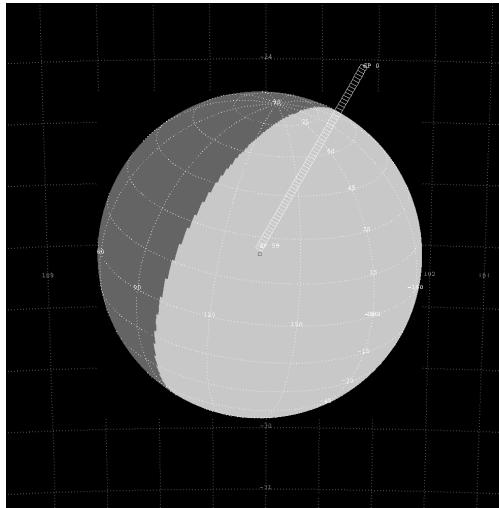


Figure 395: Frame 0

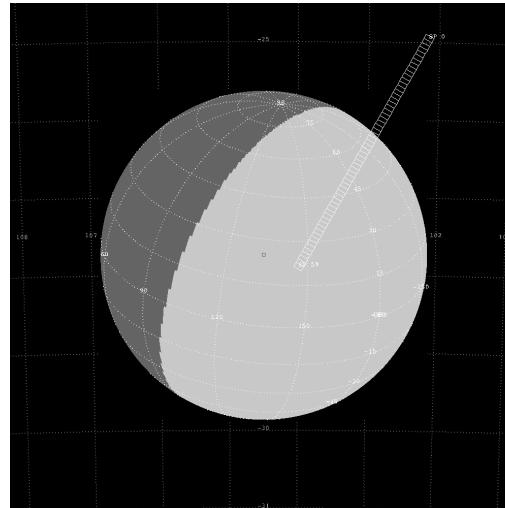


Figure 396: Frame 10

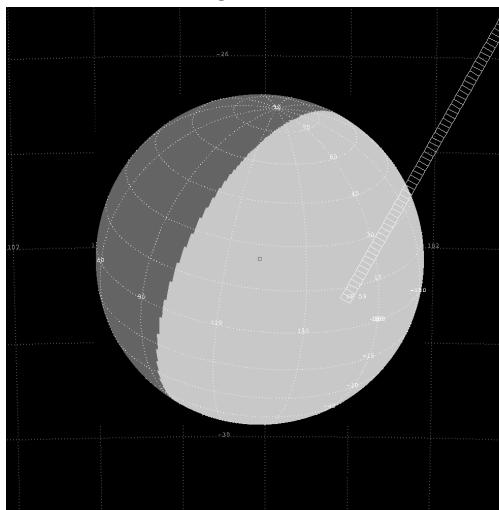


Figure 397: Frame 20

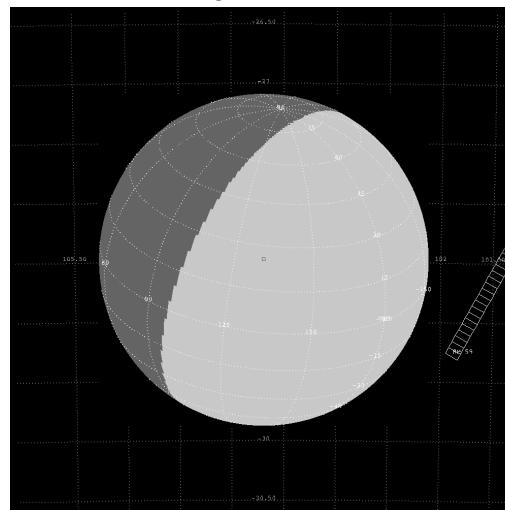


Figure 398: Frame 34

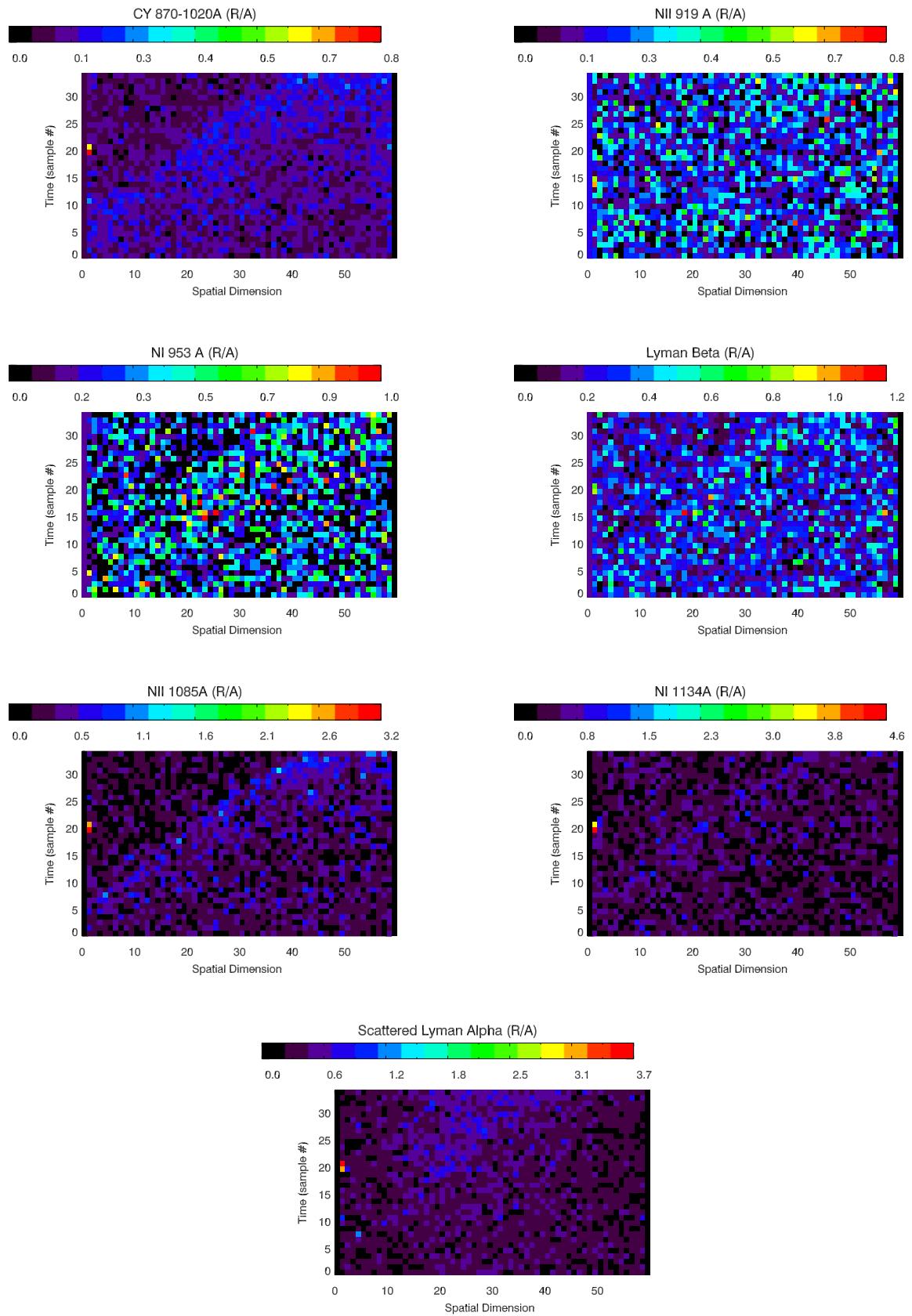


Figure 399: Panel of 7 detector images

FUV2008_053_20_08_20_UVIS_059TI_EUVFUV002_PRIME

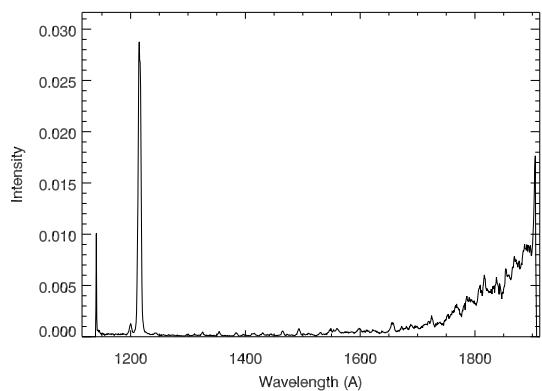


Figure 400: Spectra

body phase angle (deg): 64.7
distance (km): 80289.
Lon sub-s/c (180E): 227.4
Lat sub-s/c: 25.0
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 401: Geometry data

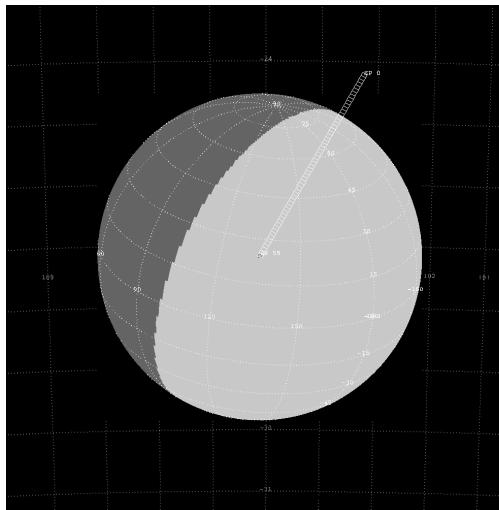


Figure 402: Frame 0

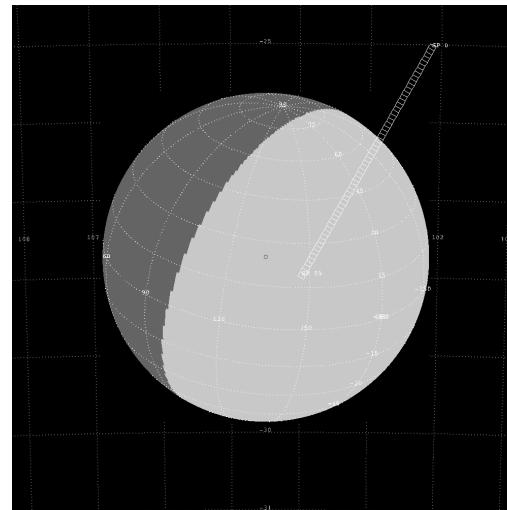


Figure 403: Frame 10

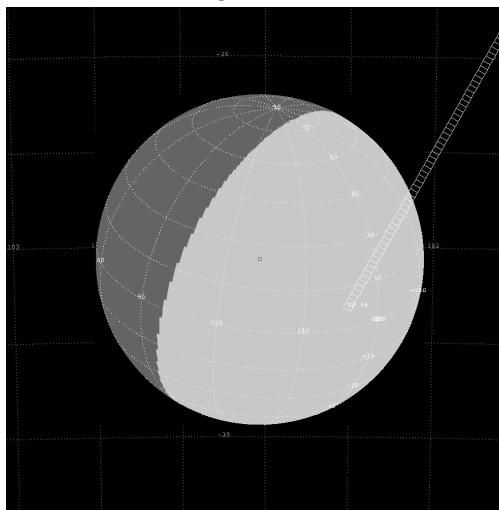


Figure 404: Frame 20

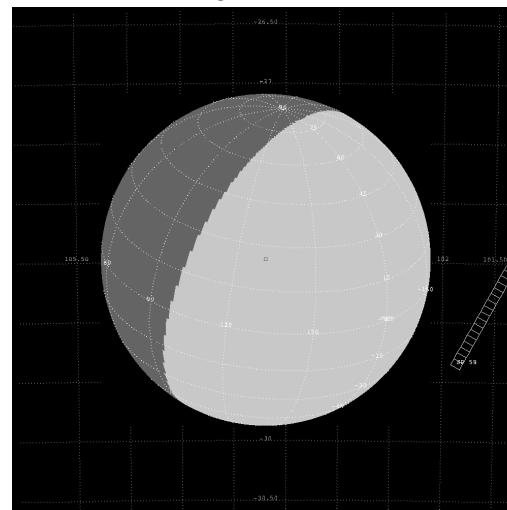


Figure 405: Frame 34

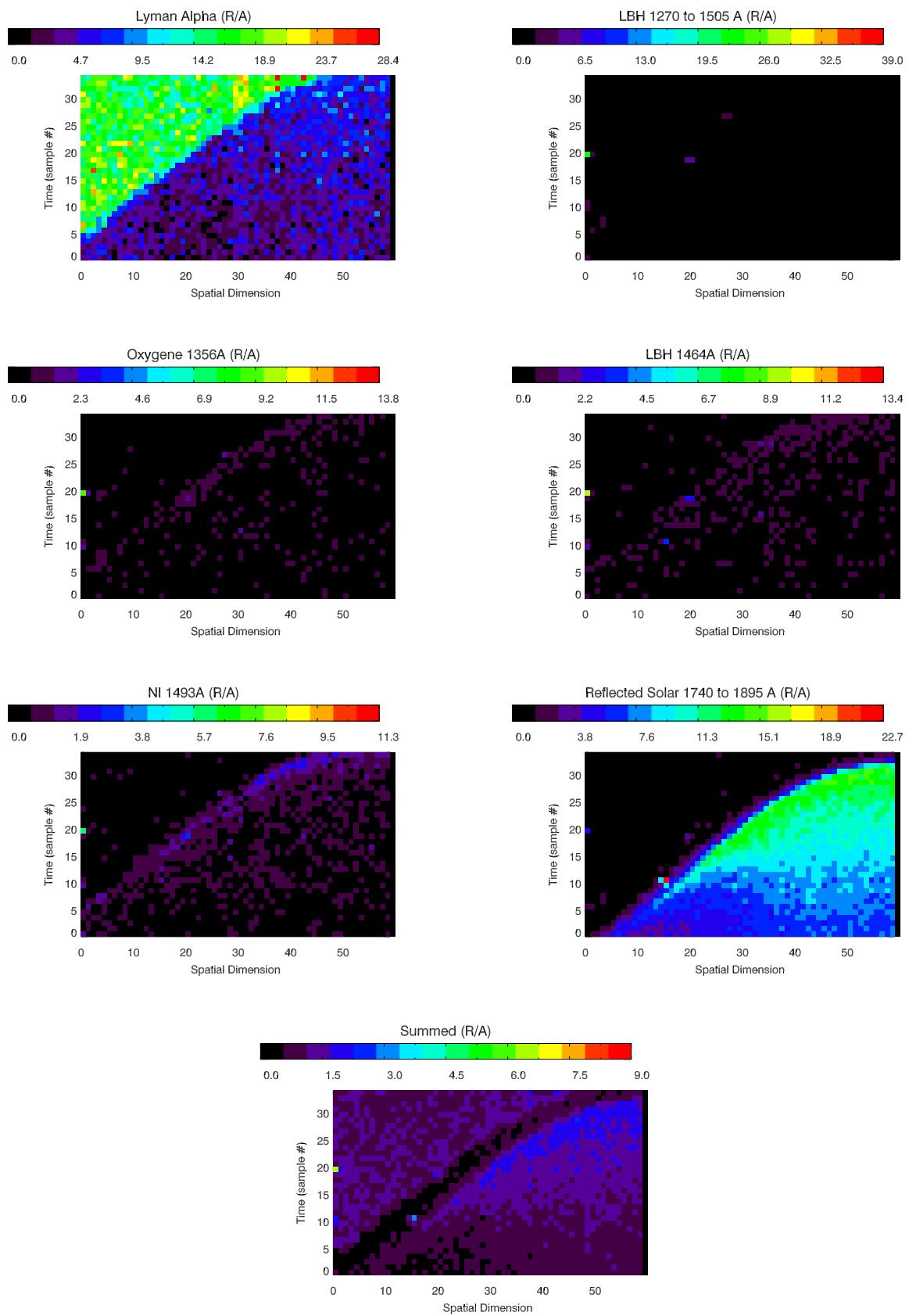


Figure 406: Panel of 7 detector images

EUV2008_148_23_30_07_UVIS_069TI_EUVFUV001_PRIME

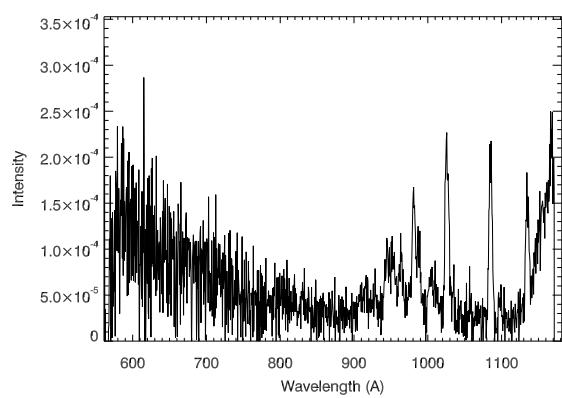


Figure 407: Spectra

body phase angle (deg): 94.4
distance (km): 129198.
Lon sub-s/c (180E): 58.4
Lat sub-s/c: -27.6
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 232

Figure 408: Geometry data

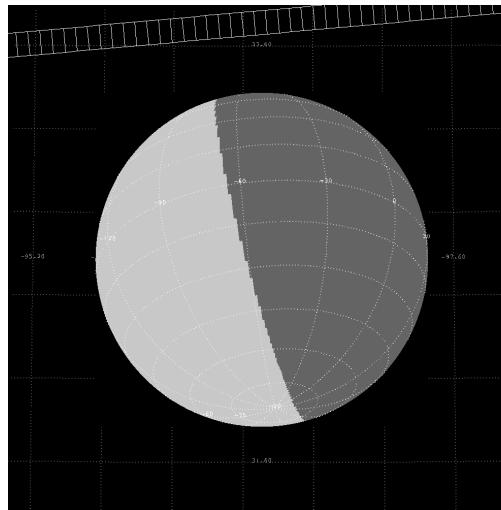


Figure 409: Frame 5

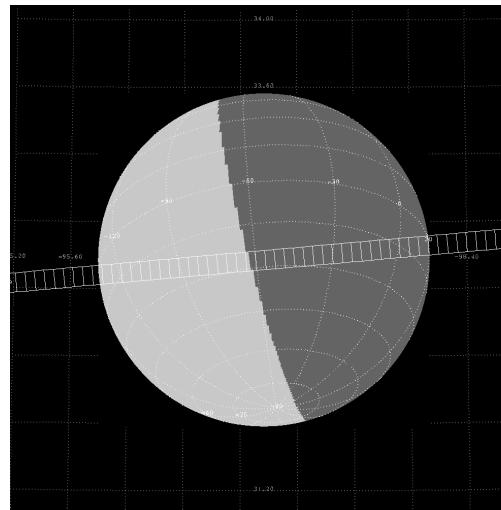


Figure 410: Frame 30

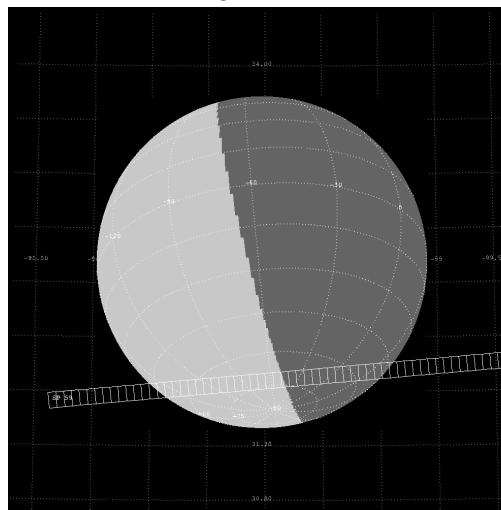
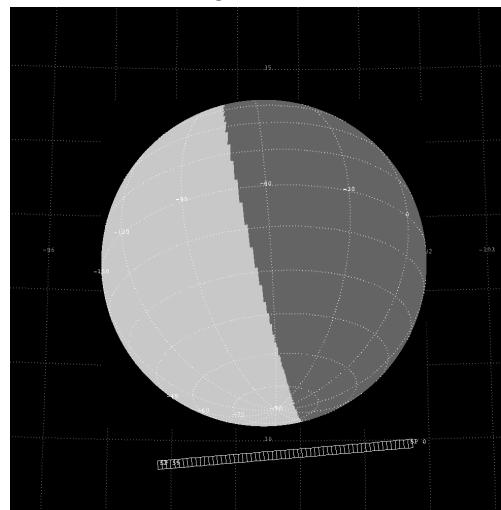


Figure 411: Frame 50



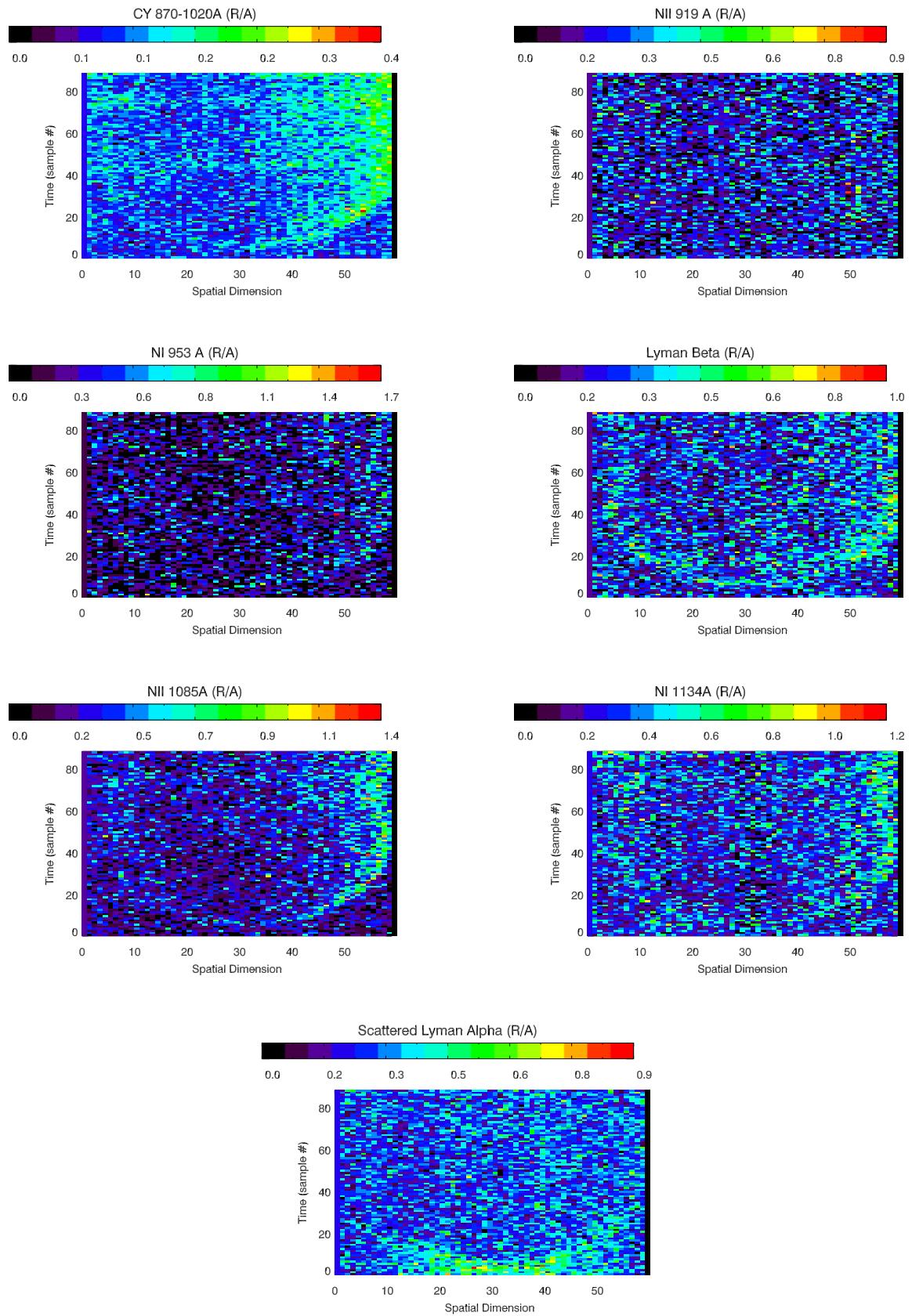


Figure 413: Panel of 7 detector images

FUV2008_148_23_30_07_UVIS_069TI_EUVFUV001_PRIME

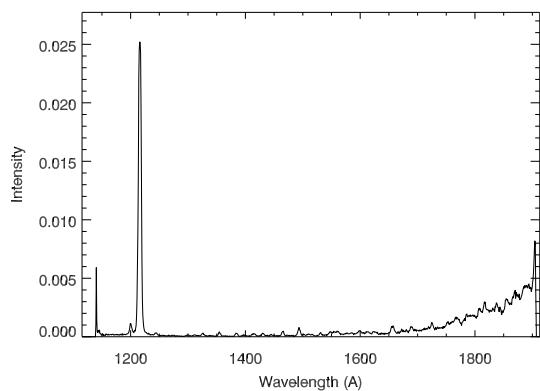


Figure 414: Spectra

body phase angle (deg): 94.4
distance (km): 129198.
Lon sub-s/c (180E): 58.4
Lat sub-s/c: -27.6
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 232

Figure 415: Geometry data

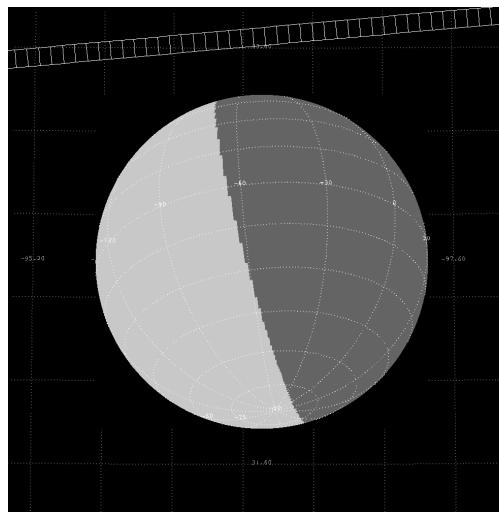


Figure 416: Frame 5

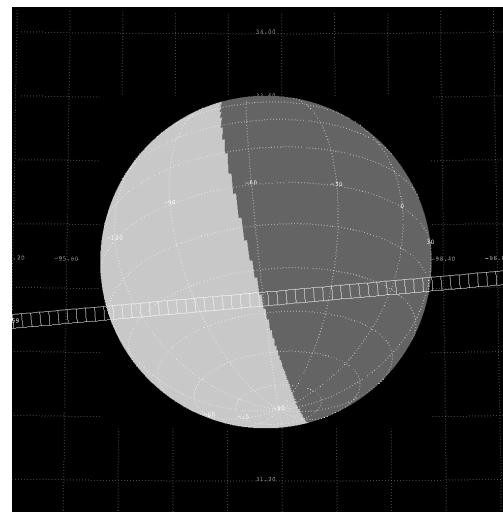


Figure 417: Frame 35

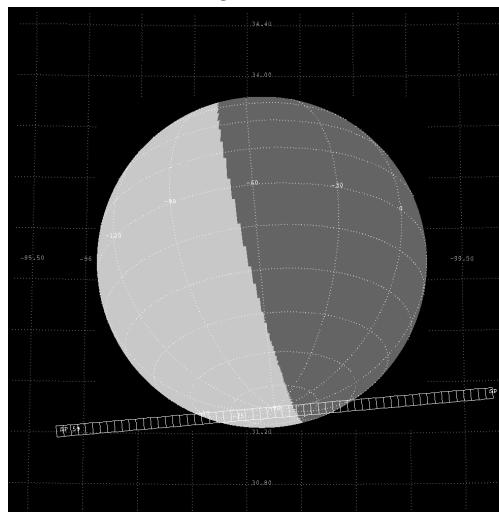


Figure 418: Frame 55

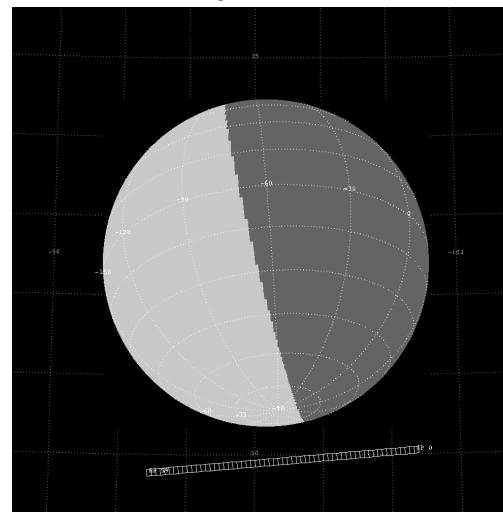


Figure 419: Frame 85

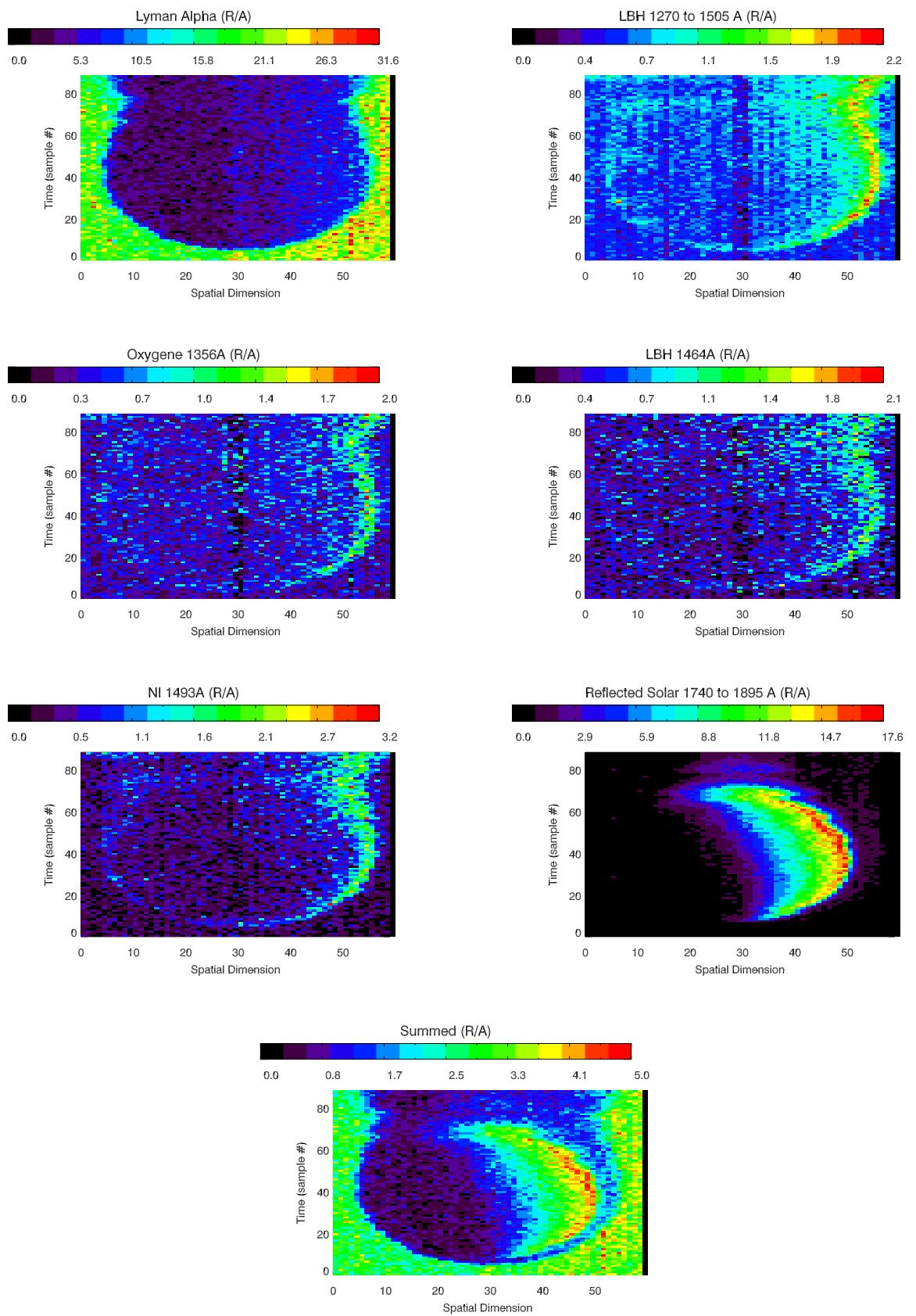


Figure 420: Panel of 7 detector images

EUV2008_308_19_33_56_UVIS_091TI_EUVFUV001_PRIME

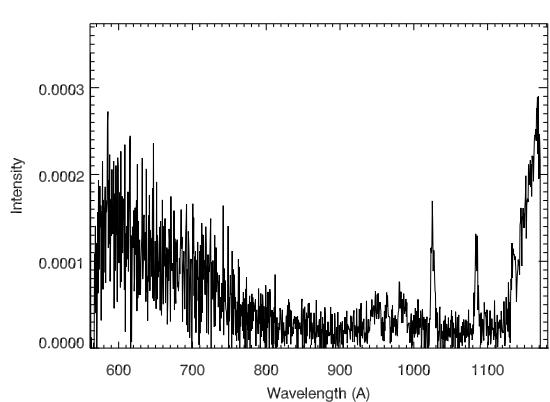


Figure 421: Spectra

body phase angle (deg): 96.0
distance (km): 115215.
Lon sub-s/c (180E): 255.4
Lat sub-s/c: 32.6
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 422: Geometry data

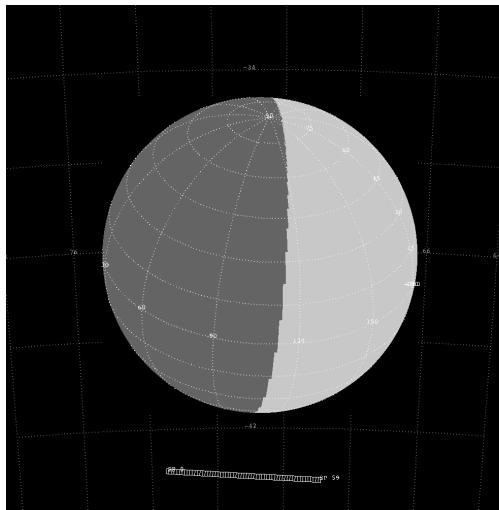


Figure 423: Frame 5

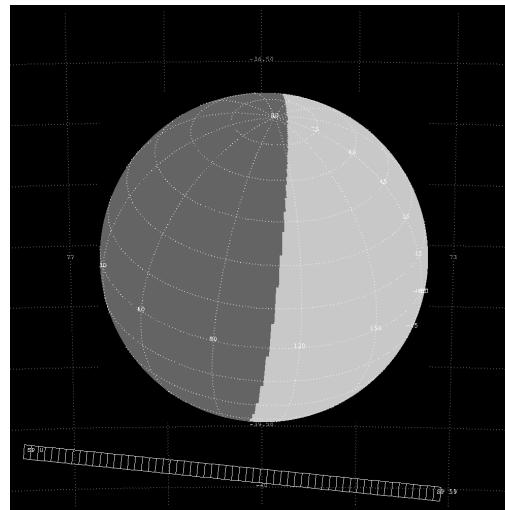


Figure 424: Frame 45

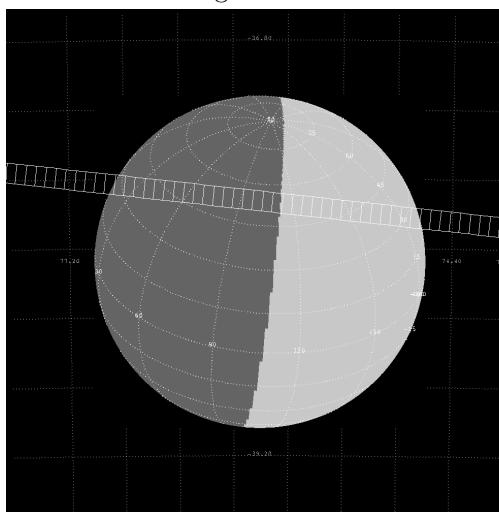


Figure 425: Frame 75

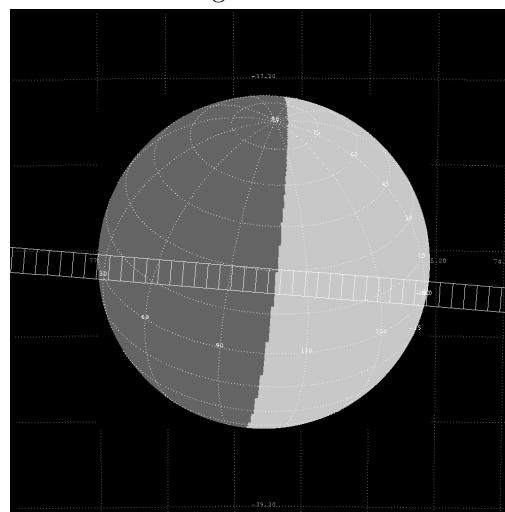


Figure 426: Frame 98

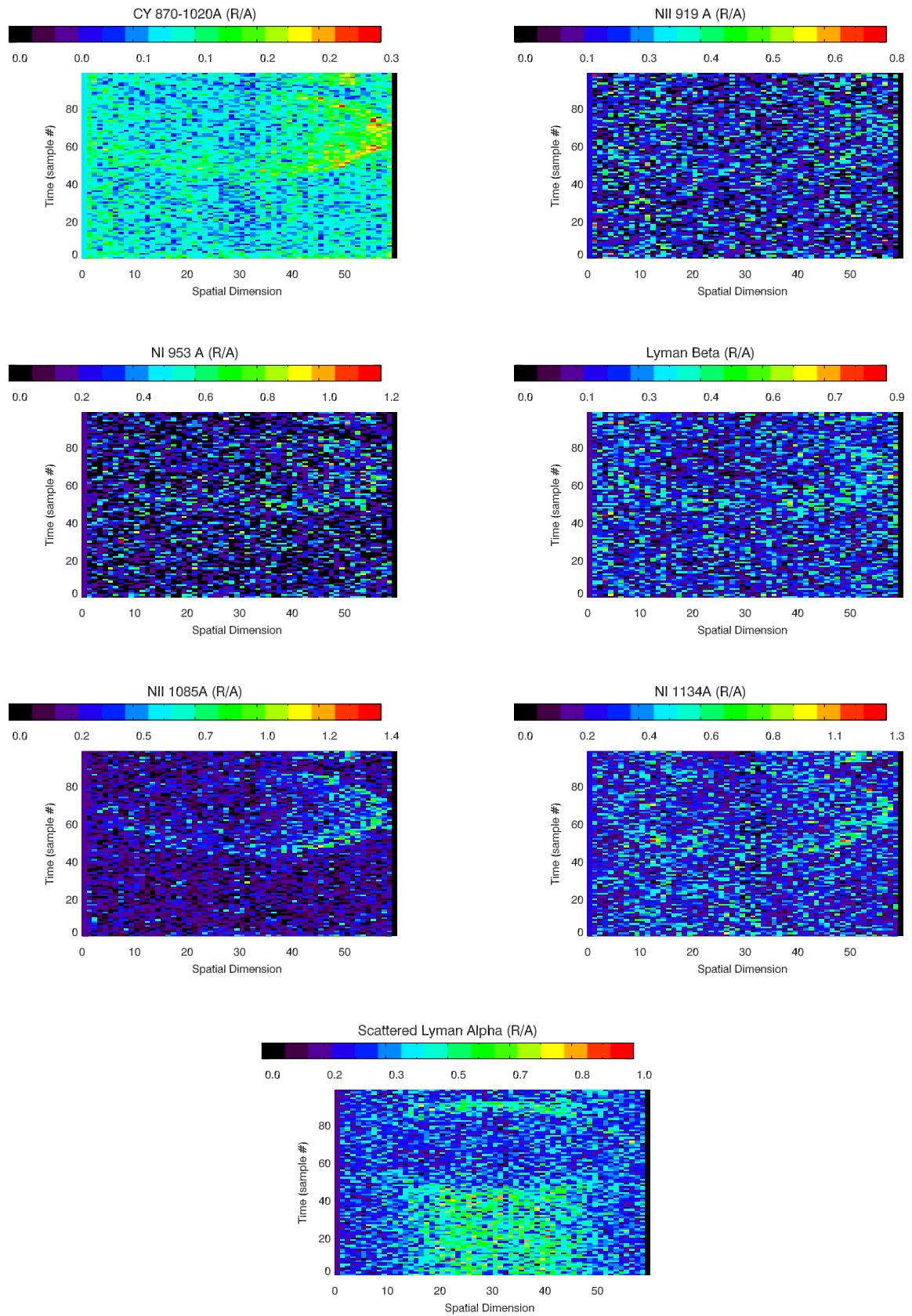


Figure 427: Panel of 7 detector images

FUV2008_308_19_33_56_UVIS_091TI_EUVFUV001_PRIME

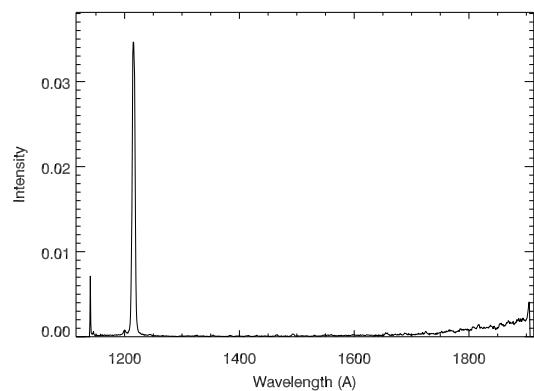


Figure 428: Spectra

body phase angle (deg): 96.0
distance (km): 115215.
Lon sub-s/c (180E): 255.4
Lat sub-s/c: 32.6
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 429: Geometry data

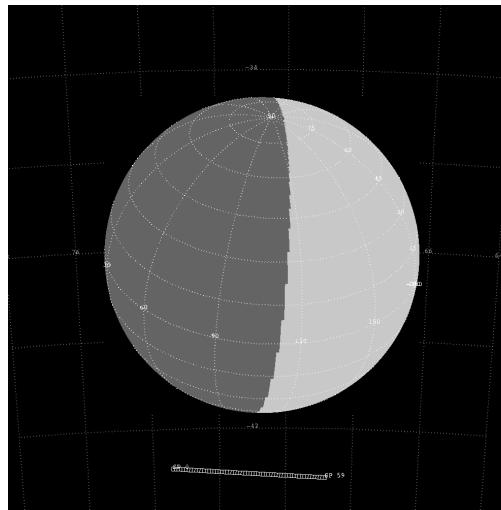


Figure 430: Frame 0

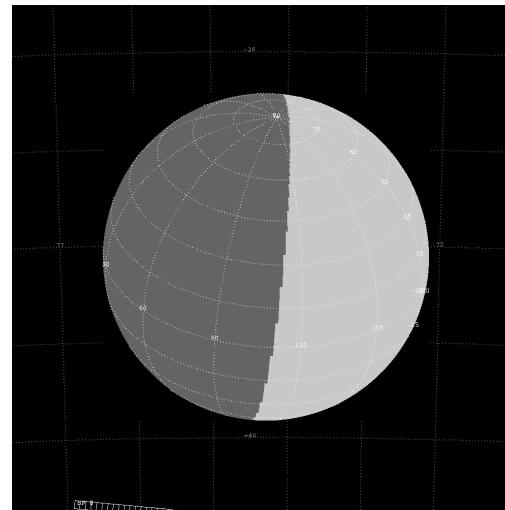


Figure 431: Frame 30

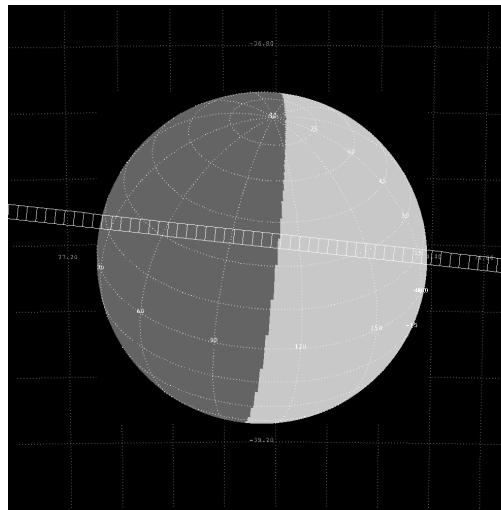


Figure 432: Frame 70

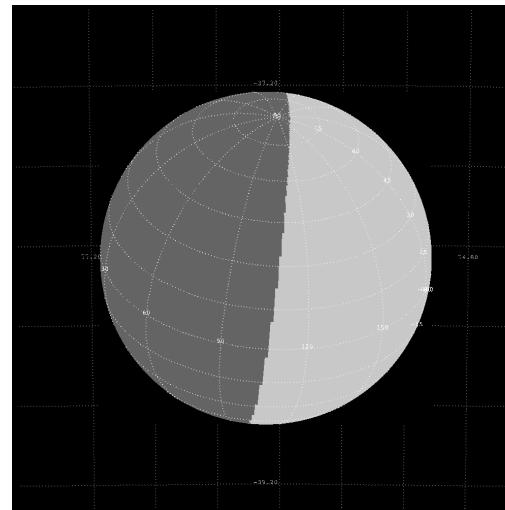


Figure 433: Frame 90

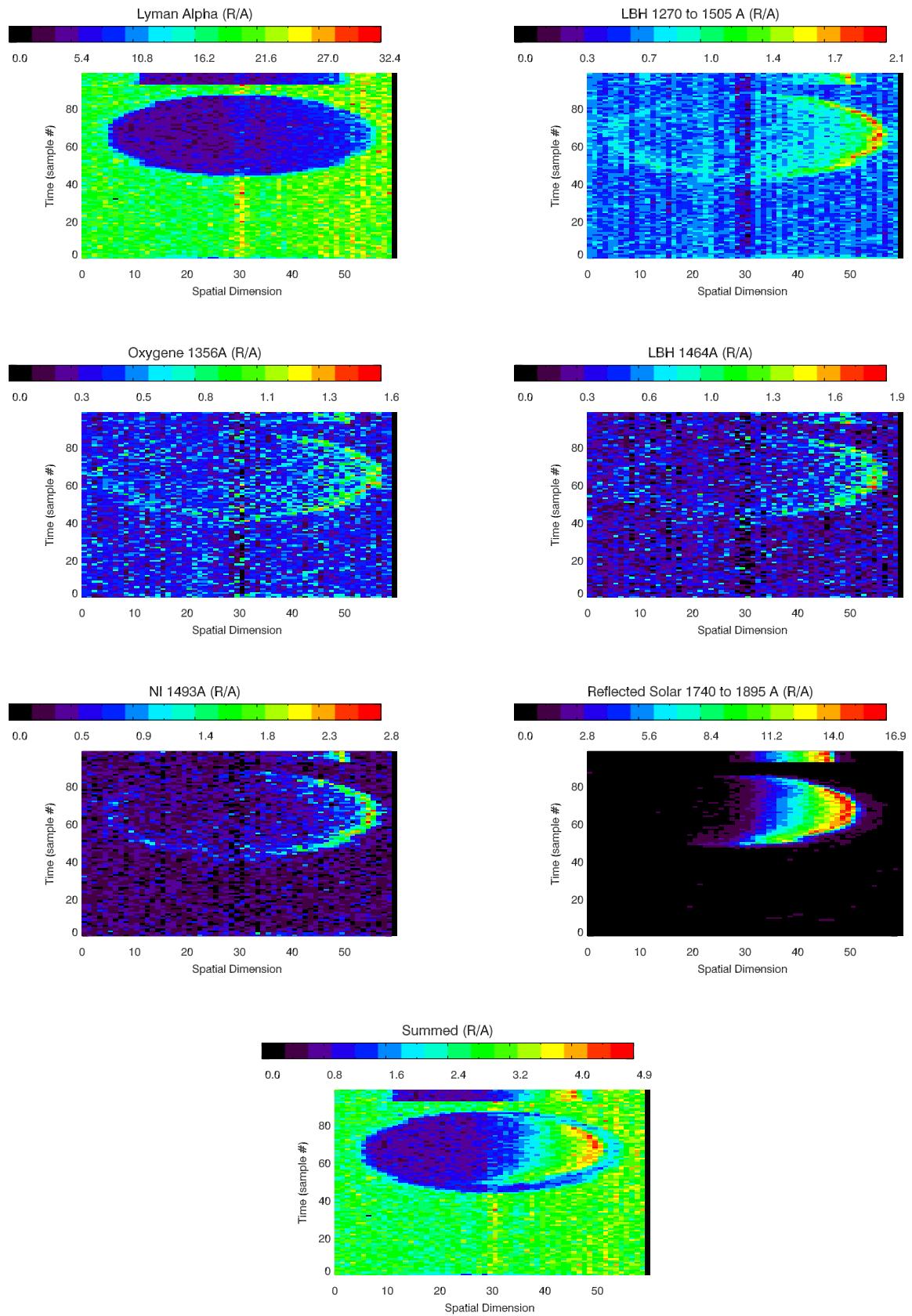


Figure 434: Panel of 7 detector images

EUV2008_340_16_51_58_UVIS_095TI_EUVFUV001_PRIME

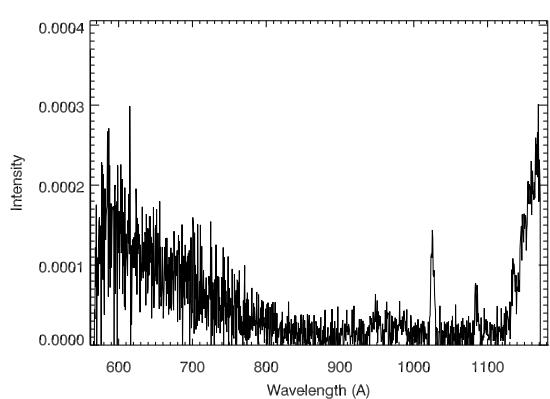


Figure 435: Spectra

body phase angle (deg): 106.9
distance (km): 119153.
Lon sub-s/c (180E): 268.3
Lat sub-s/c: 37.5
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 436: Geometry data

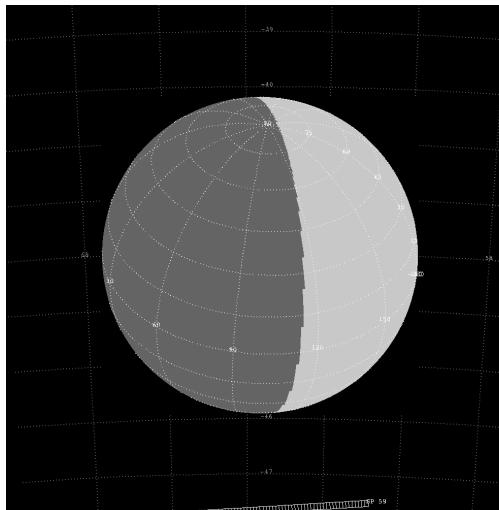


Figure 437: Frame 0

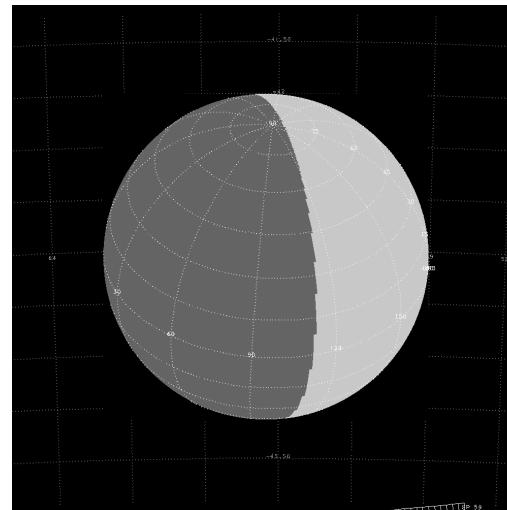


Figure 438: Frame 30

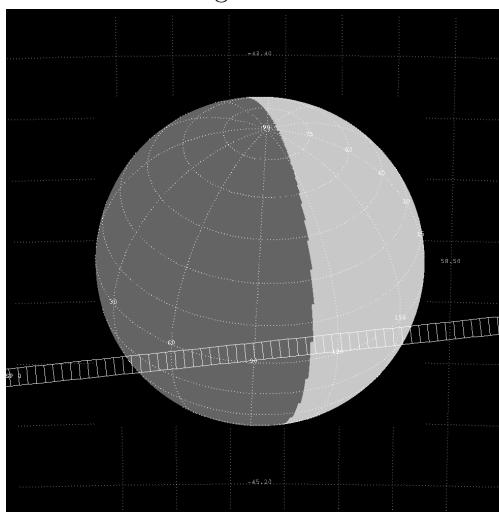


Figure 439: Frame 60

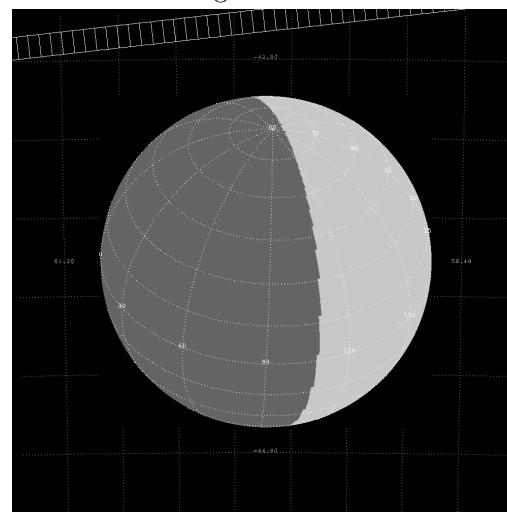


Figure 440: Frame 87

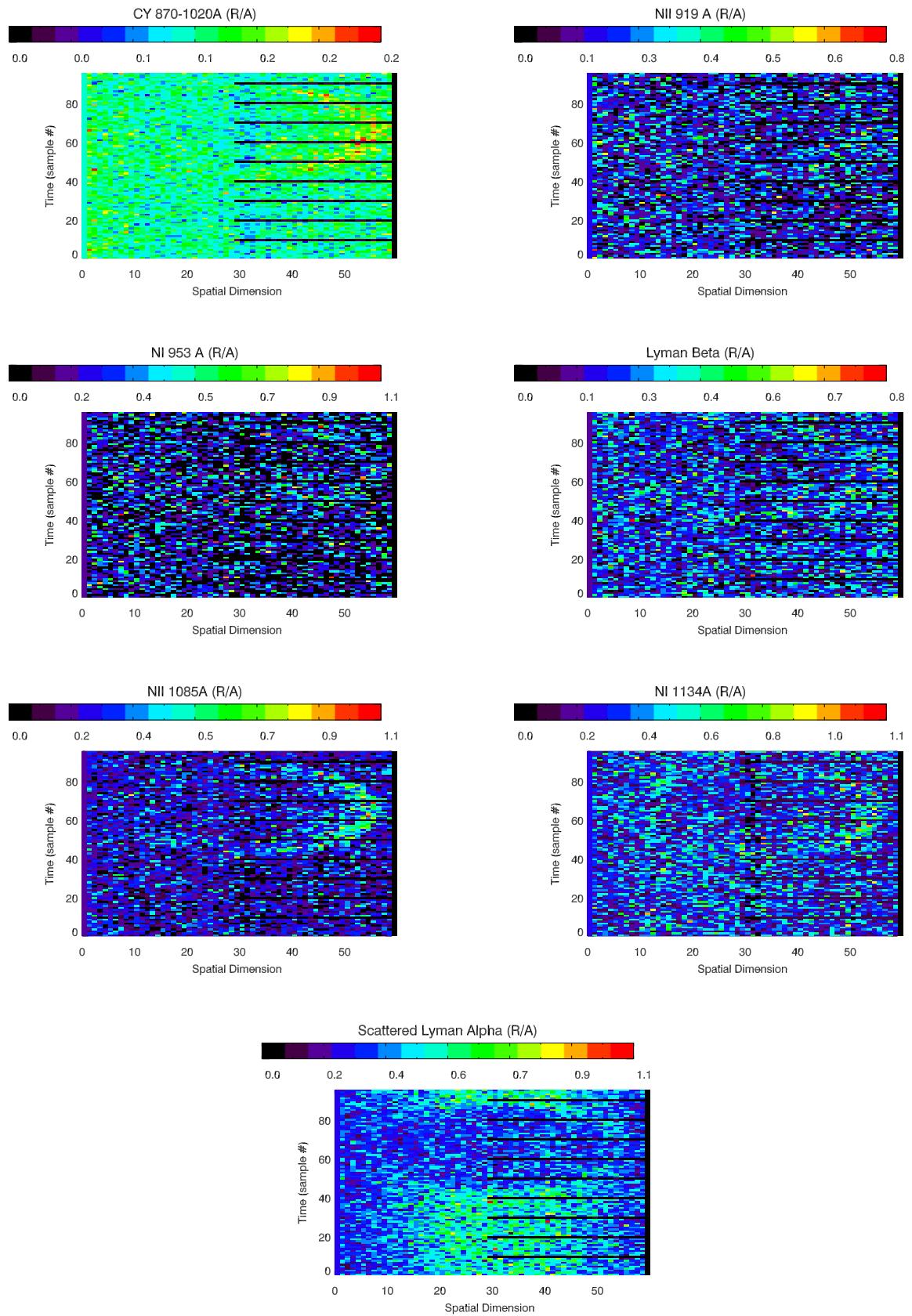


Figure 441: Panel of 7 detector images

FUV2008_340_16_51_58_UVIS_095TI_EUVFUV001_PRIME

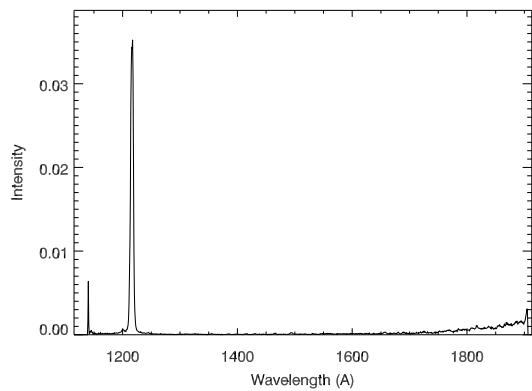


Figure 442: Spectra

body phase angle (deg): 106.9
 distance (km): 119153.
 Lon sub-s/c (180E): 268.3
 Lat sub-s/c: 37.5
 xbin: 1
 ybin: 1
 xmin: 0
 xmax: 1023
 ymin: 2
 ymax: 61
 integration (sec): 240

Figure 443: Geometry data

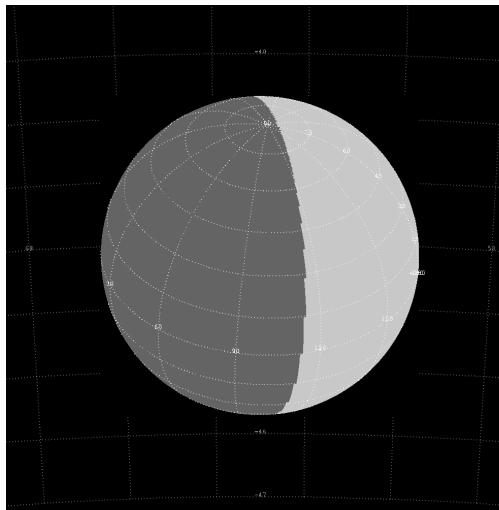


Figure 444: Frame 5

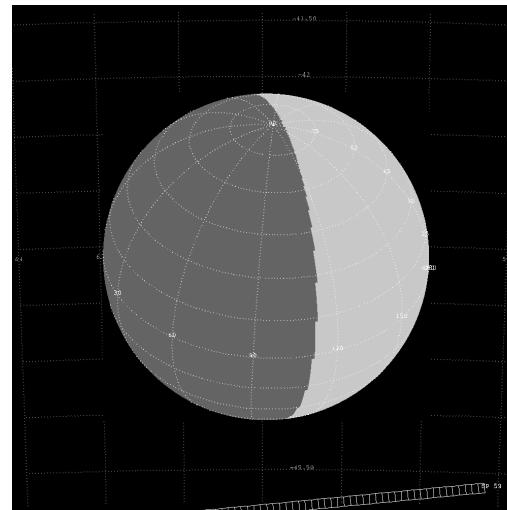


Figure 445: Frame 35

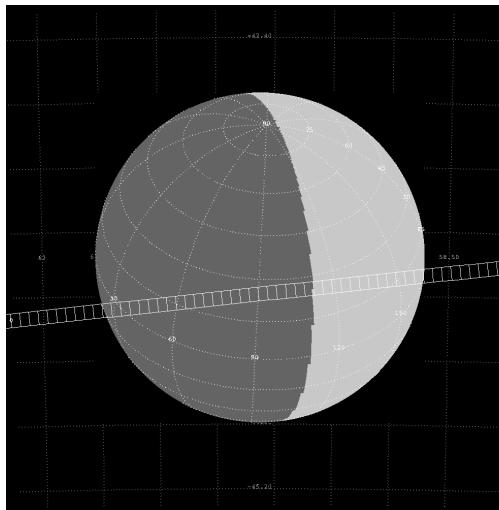


Figure 446: Frame 65

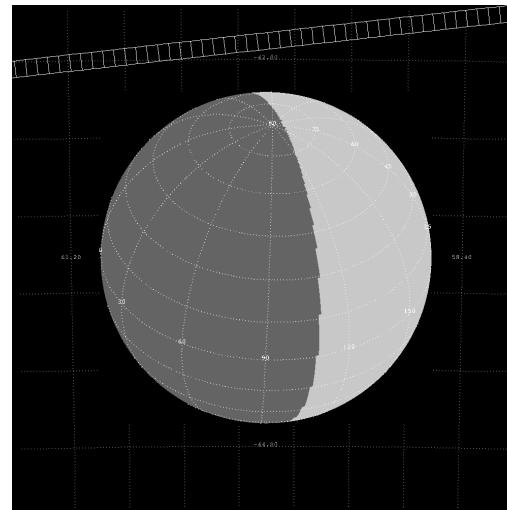


Figure 447: Frame 85

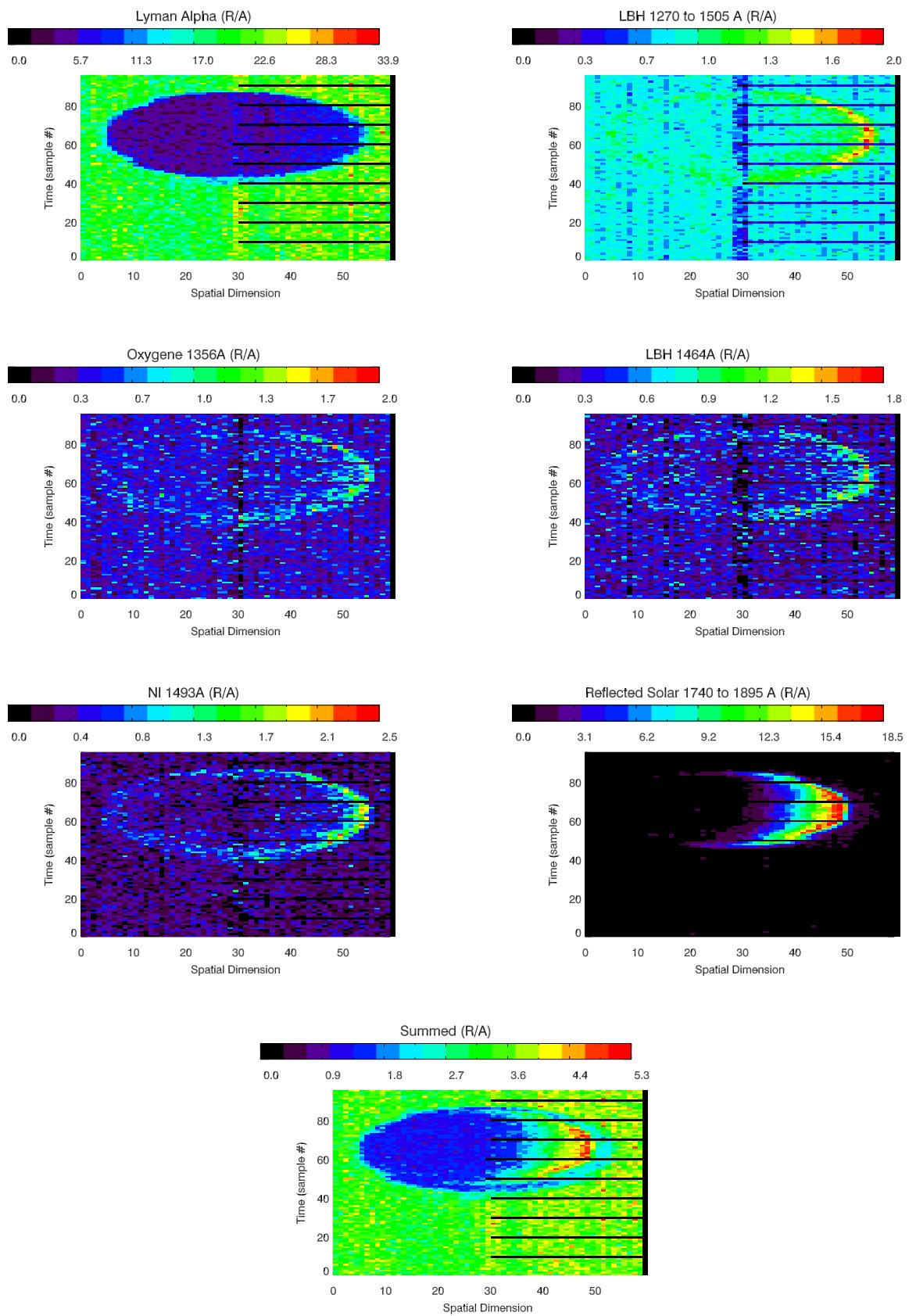


Figure 448: Panel of 7 detector images

Year 2009

Brief descriptif of observations:

- Day 038: Dayglow and nightglow, maybe enhanced at the anti-solar point?
- Day 126: Dayglow, no nightglow
- Day 141: Dayglow, faint nightglow. Bright spot in atomic oxygen only
- Day 157: Dayglow and nightglow
- Day 173: Dayglow and faint nightglow
- Day 173-2: Only 14 samples, in the atmosphere. Different EUV spectra, lots more emission lines. Scattering
- Day 174: Dayglow, no nightglow
- Day 189: Dayglow, no nightglow. Very well defined CY emission. A bright patch is seen at the terminator. Emission not uniform, not following SZA pattern
- Day 189-2: Nightside, no emission clearly visible. Do not look at the right altitudes
- Day 285: Nightside. Faint nightglow, interesting geometry
- Day 285-2: Dayside. Dayglow. Do not fully follow the SZA pattern in the FUV in the oxygen and LBH line

EUV2009_038_14_56_35_UVIS_102TI_EUVFUV001_PRIME

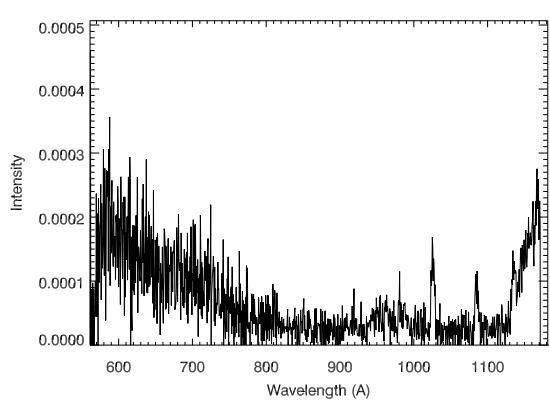


Figure 449: Spectra

body phase angle (deg): 105.8
distance (km): 158796.
Lon sub-s/c (180E): 271.1
Lat sub-s/c: 50.8
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 450: Geometry data

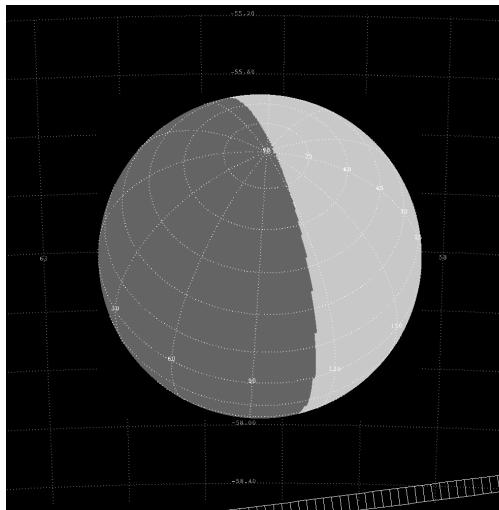


Figure 451: Frame 3

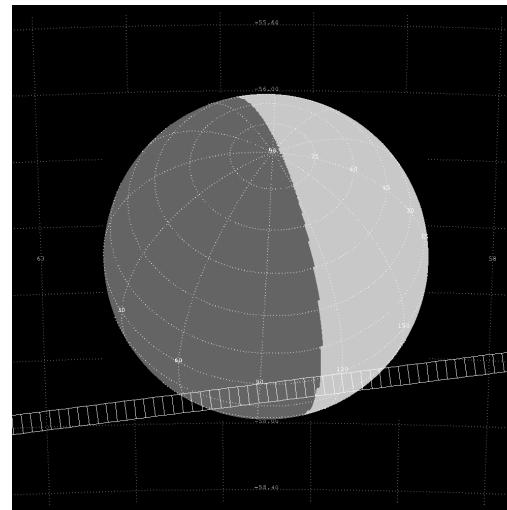


Figure 452: Frame 15

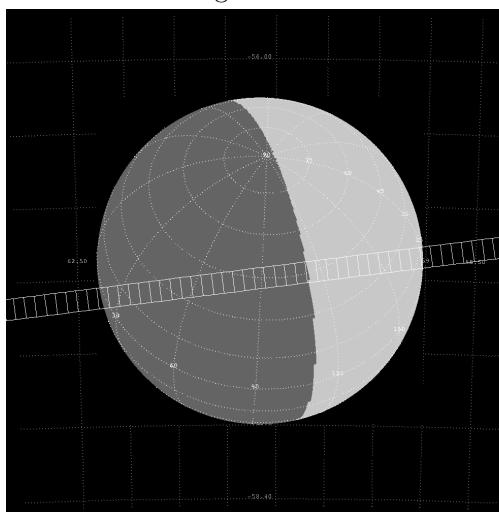


Figure 453: Frame 25

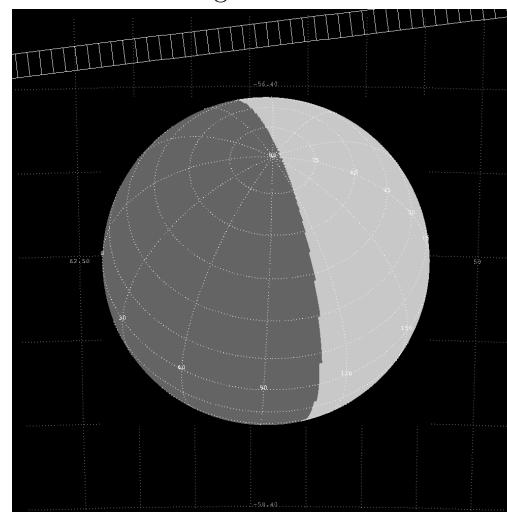


Figure 454: Frame 41

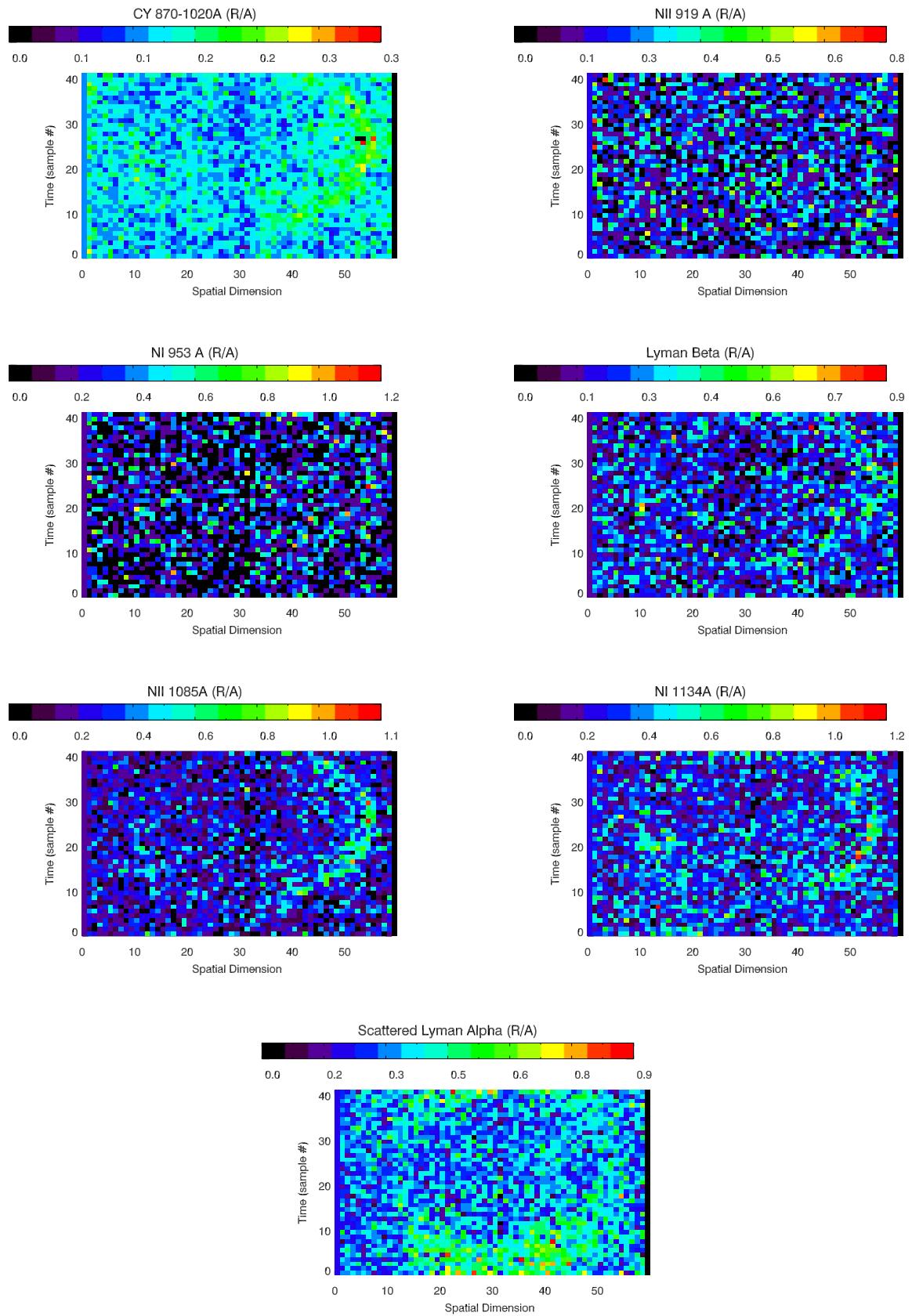


Figure 455: Panel of 7 detector images

FUV2009_038_14_56_35_UVIS_102TI_EUVFUV001_PRIME

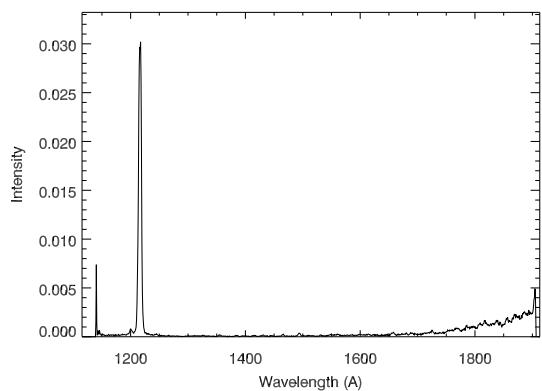


Figure 456: Spectra

body phase angle (deg): 105.8
distance (km): 158796.
Lon sub-s/c (180E): 271.1
Lat sub-s/c: 50.8
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 457: Geometry data

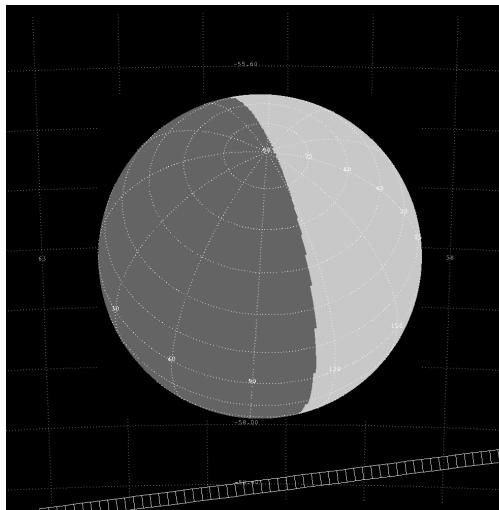


Figure 458: Frame 5

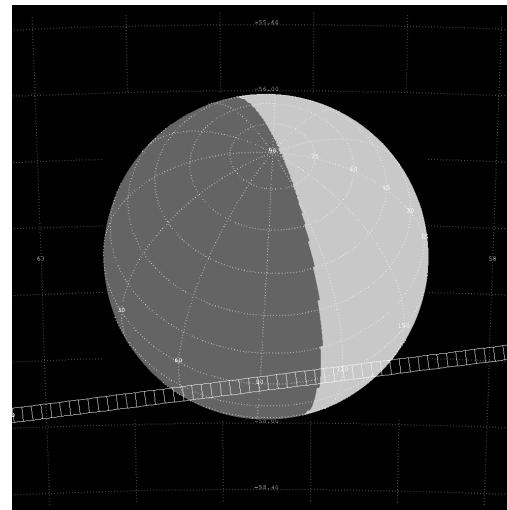


Figure 459: Frame 15

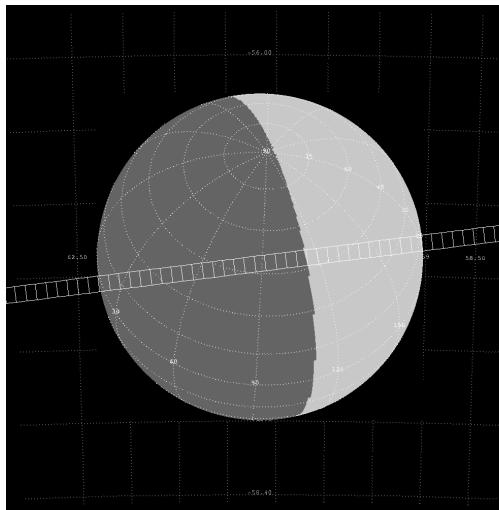


Figure 460: Frame 25

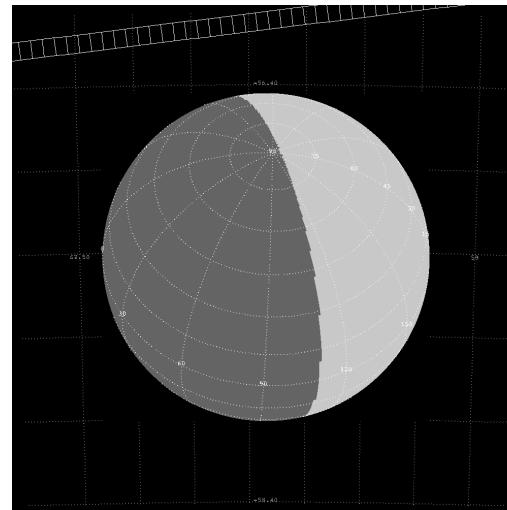


Figure 461: Frame 40

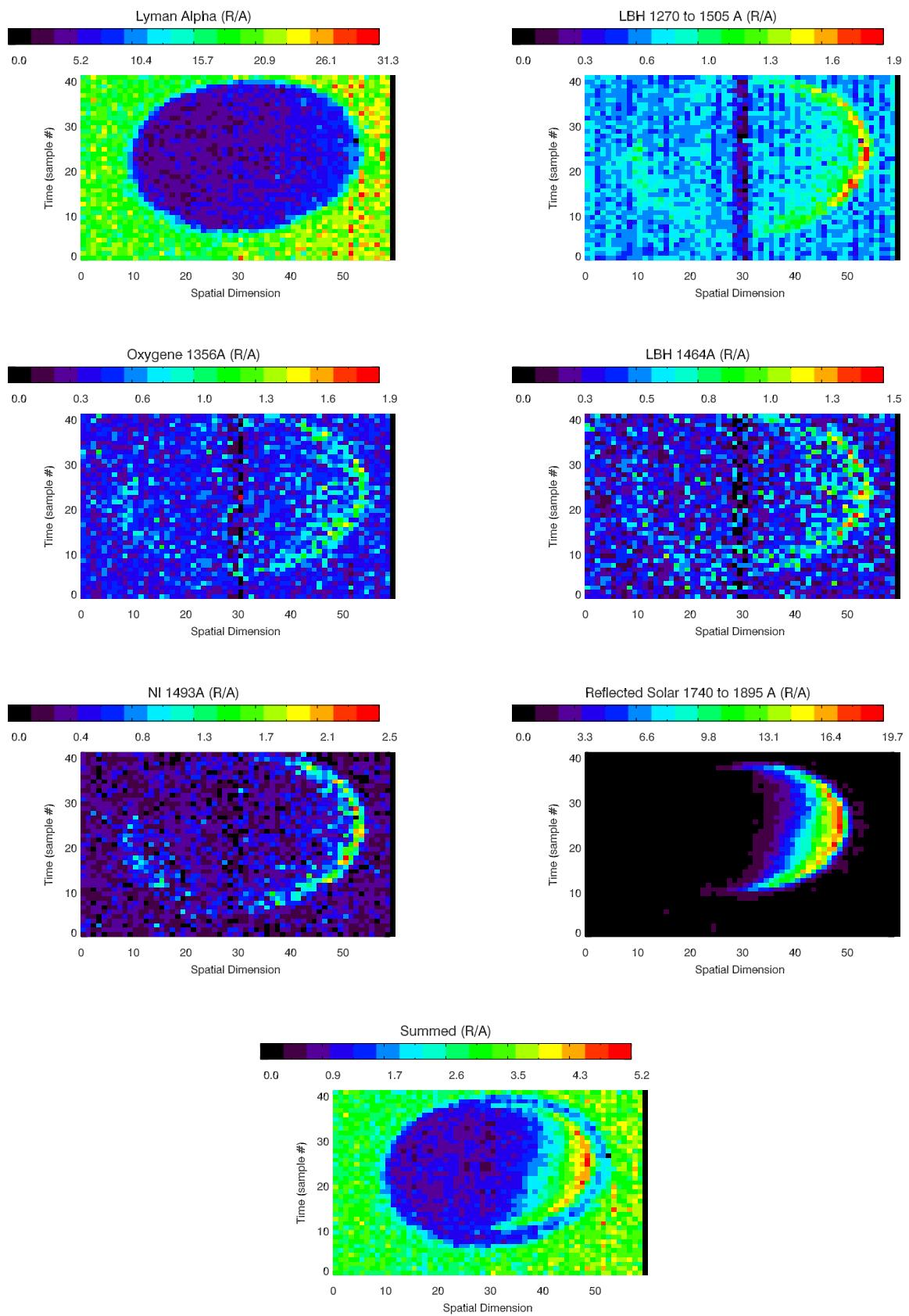


Figure 462: Panel of 7 detector images

EUV2009_126_01_18_21_UVIS_110TI_EUVFUV001_PRIME

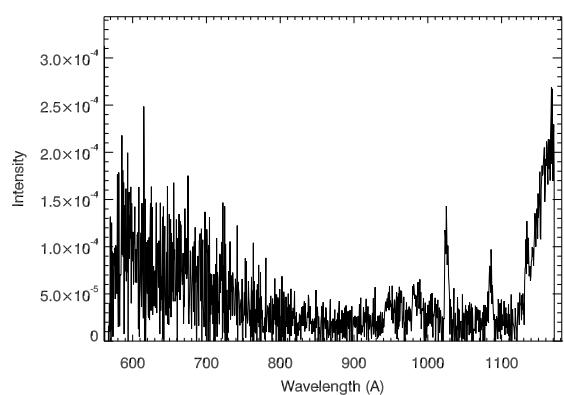


Figure 463: Spectra

body phase angle (deg): 63.4
distance (km): 110242.
Lon sub-s/c (180E): 292.7
Lat sub-s/c: -56.3
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 464: Geometry data

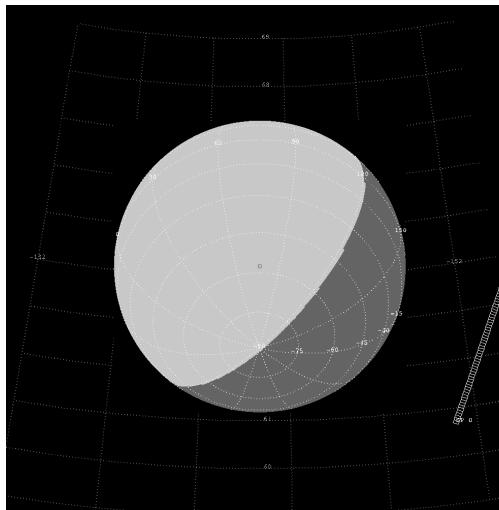


Figure 465: Frame 3

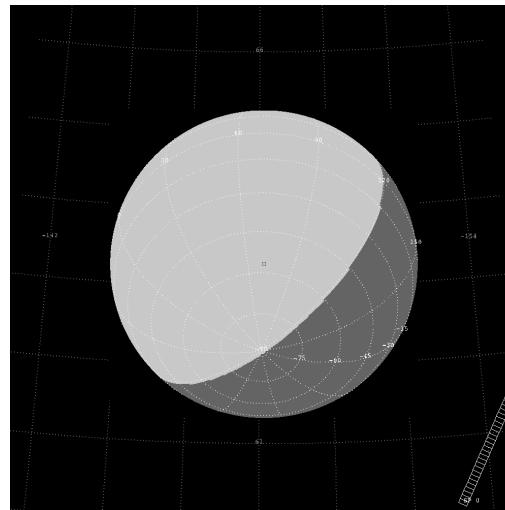


Figure 466: Frame 20

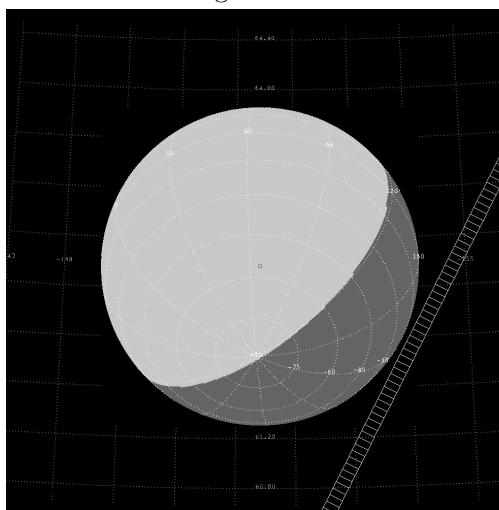


Figure 467: Frame 50

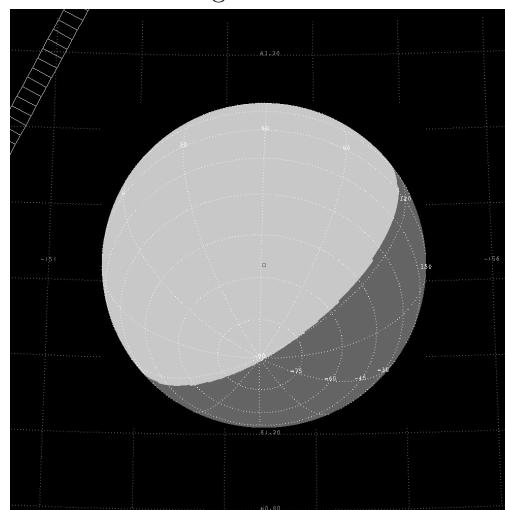


Figure 468: Frame 92

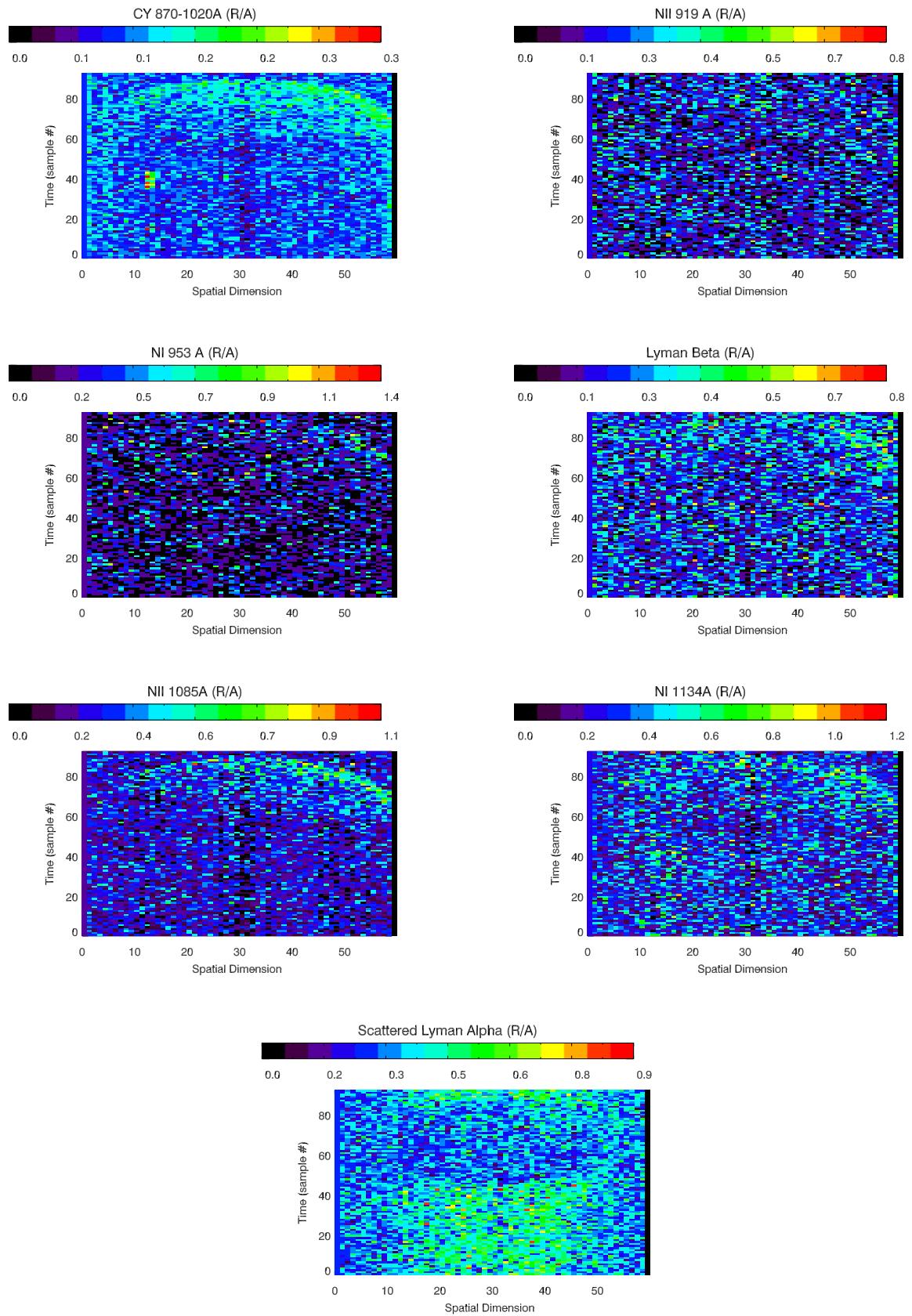


Figure 469: Panel of 7 detector images

FUV2009_126_01_18_21_UVIS_110TI_EUVFUV001_PRIME

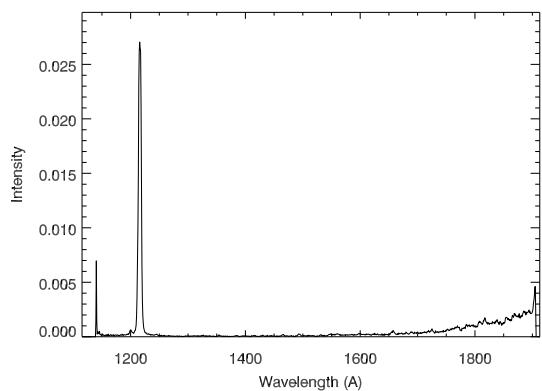


Figure 470: Spectra

body phase angle (deg): 63.4
distance (km): 110242.
Lon sub-s/c (180E): 292.7
Lat sub-s/c: -56.3
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 471: Geometry data

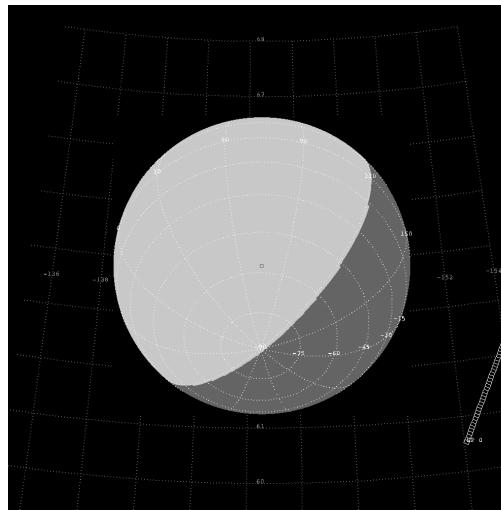


Figure 472: Frame 5

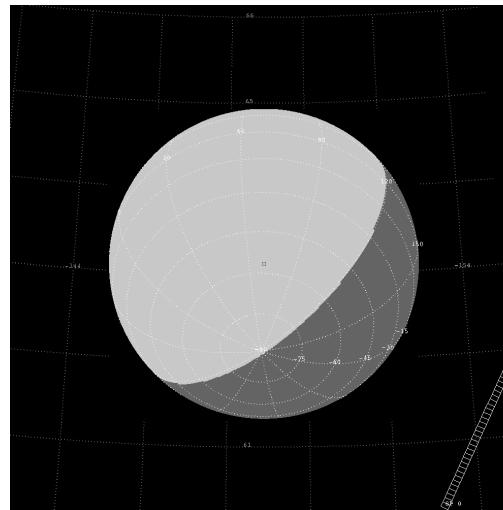


Figure 473: Frame 25

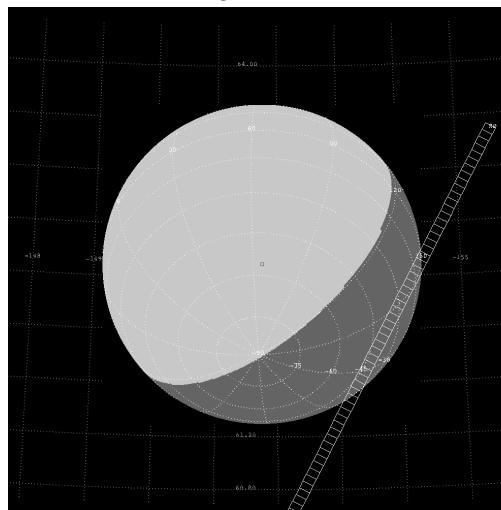


Figure 474: Frame 55

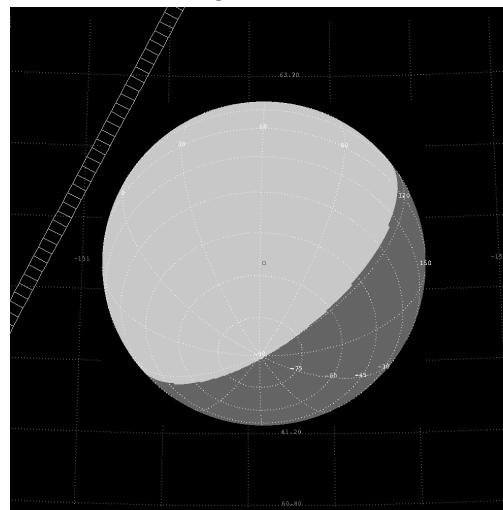


Figure 475: Frame 85

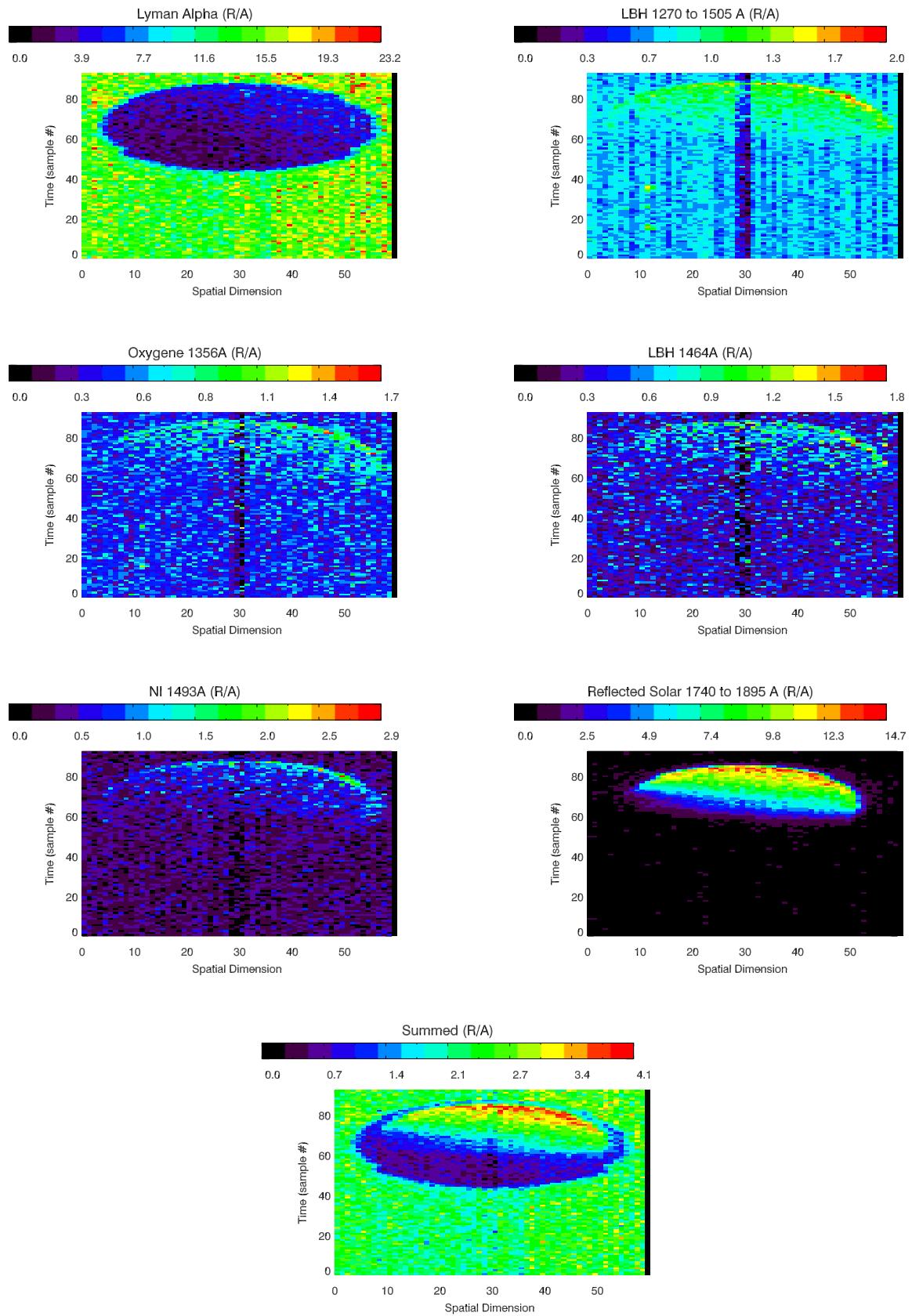


Figure 476: Panel of 7 detector images

EUV2009_141_12_32_45_UVIS_111TI_EUVFUV001_PRIME

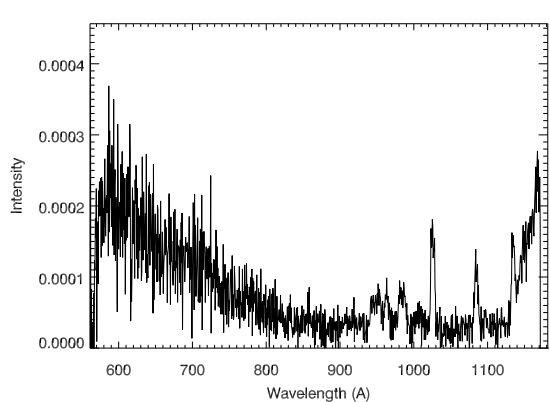


Figure 477: Spectra

body phase angle (deg): 121.9
distance (km): 115830.
Lon sub-s/c (180E): 110.8
Lat sub-s/c: 53.6
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 478: Geometry data

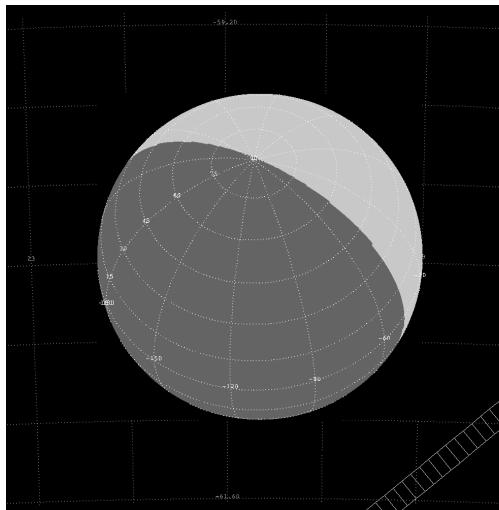


Figure 479: Frame 0

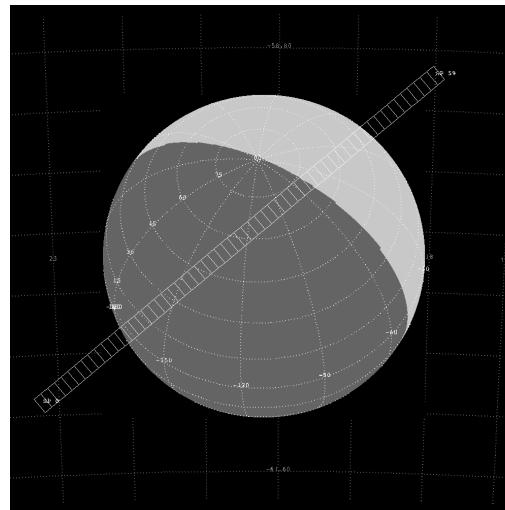


Figure 480: Frame 30

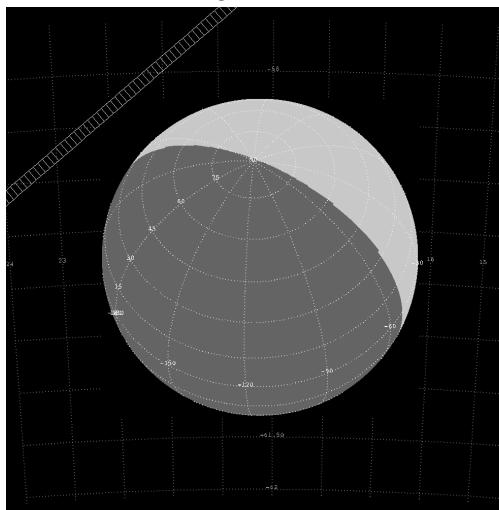


Figure 481: Frame 60

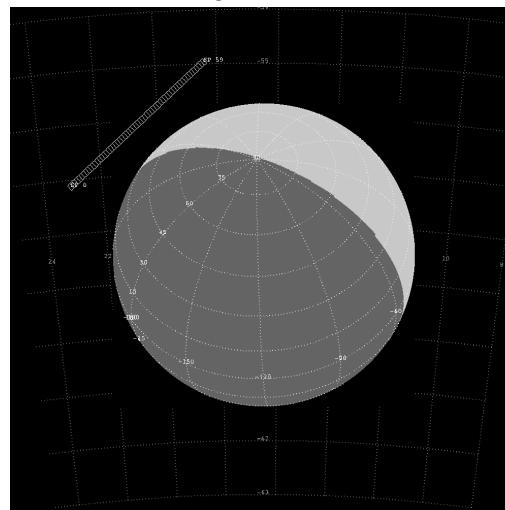


Figure 482: Frame 93

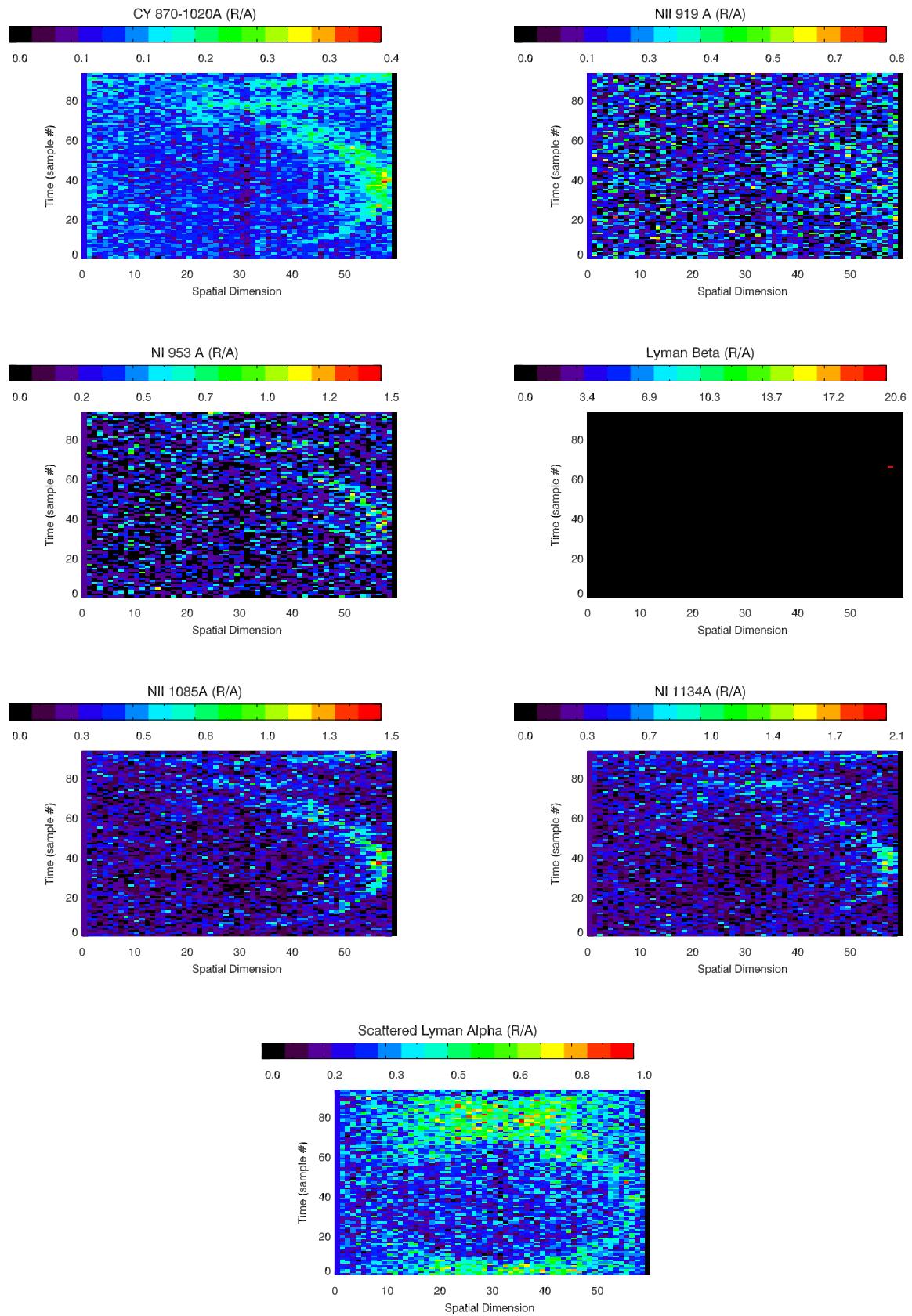


Figure 483: Panel of 7 detector images

FUV2009_141_12_32_45_UVIS_111TI_EUVFUV001_PRIME

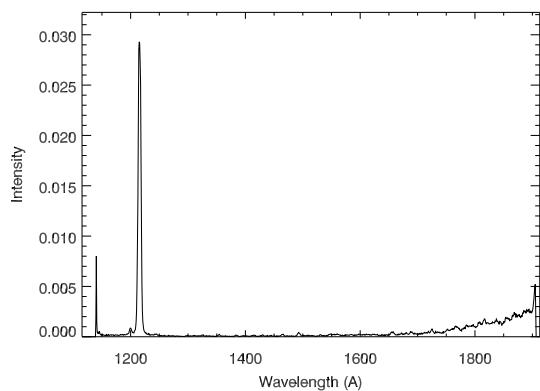


Figure 484: Spectra

body phase angle (deg): 121.9
distance (km): 115830.
Lon sub-s/c (180E): 110.8
Lat sub-s/c: 53.6
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 485: Geometry data

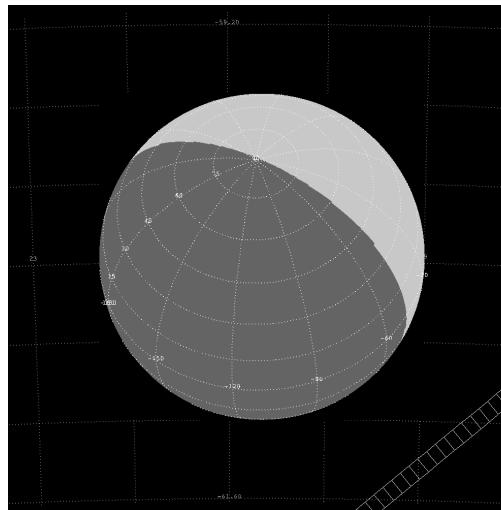


Figure 486: Frame 0

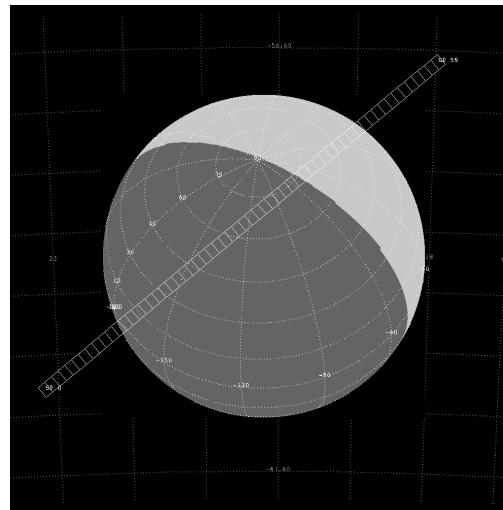


Figure 487: Frame 30

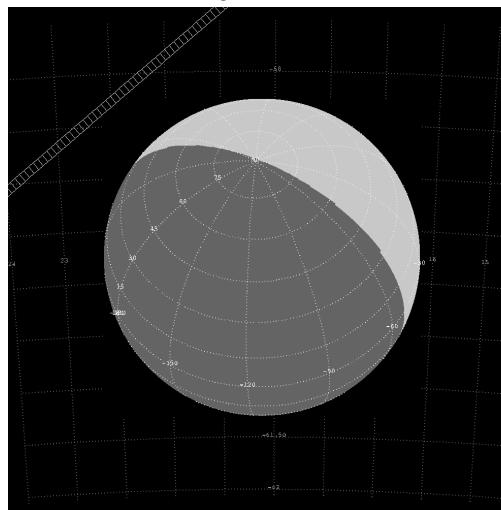


Figure 488: Frame 60

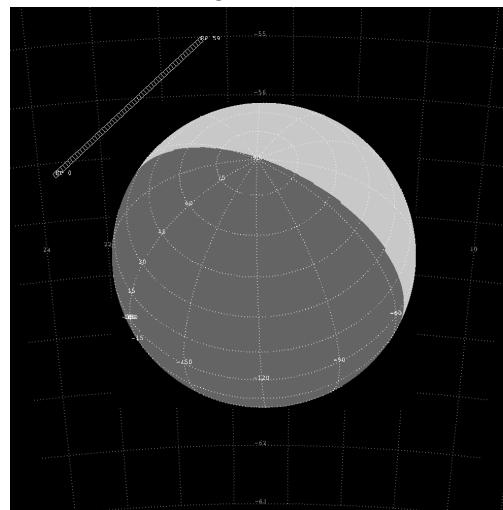


Figure 489: Frame 90

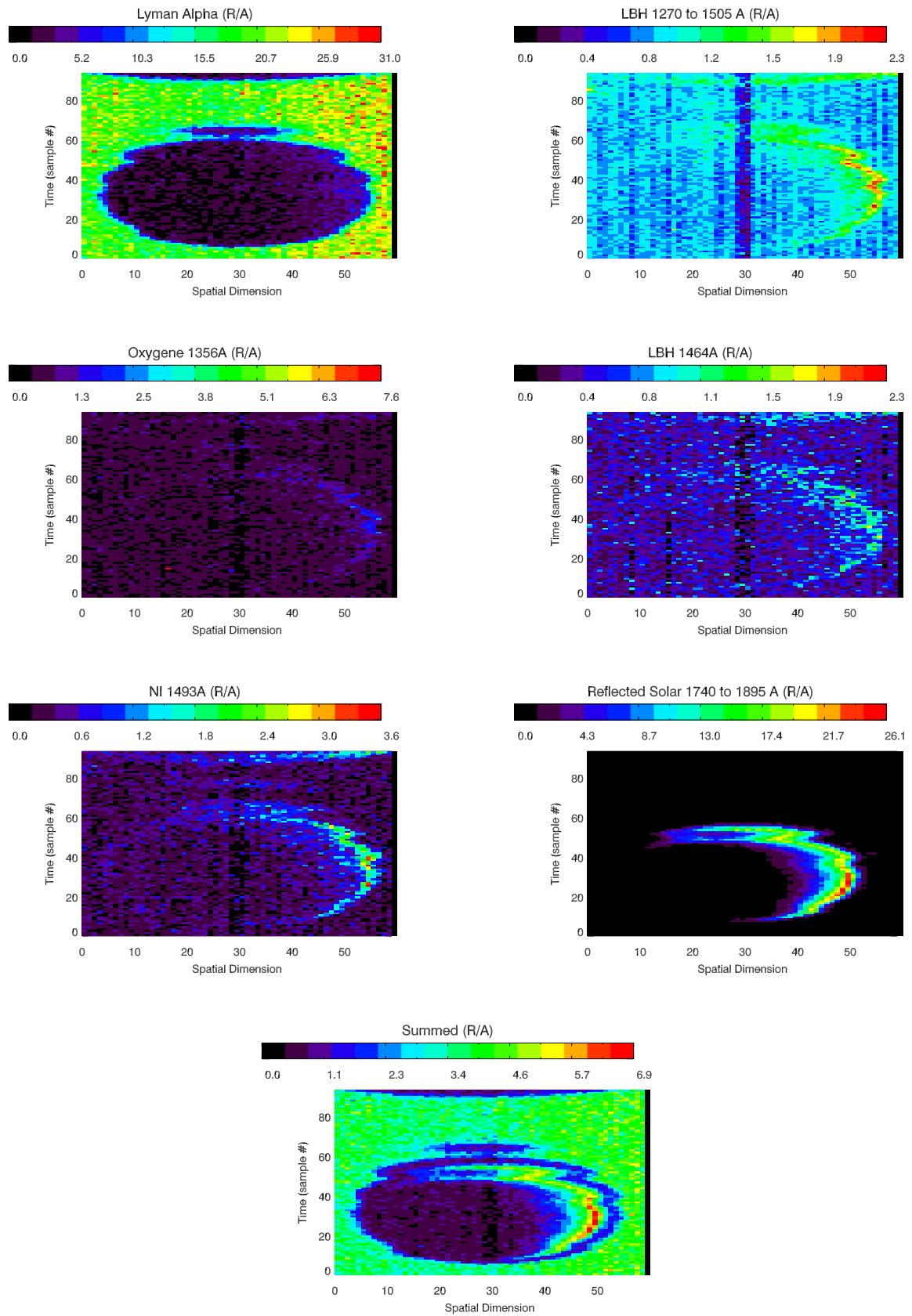


Figure 490: Panel of 7 detector images

EUV2009_157_21_48_36_UVIS_112TI_EUVFUV001_PRIME

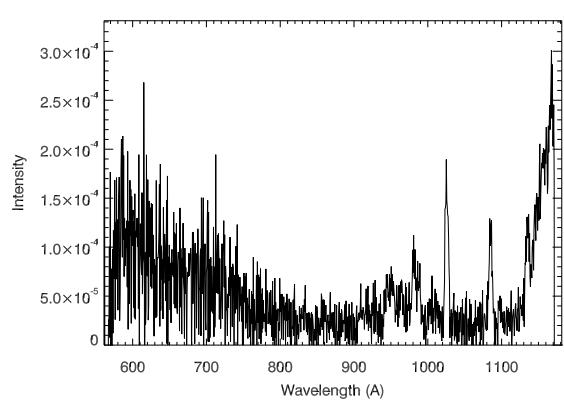


Figure 491: Spectra

body phase angle (deg): 45.9
distance (km): 106978.
Lon sub-s/c (180E): 315.6
Lat sub-s/c: -44.7
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 492: Geometry data

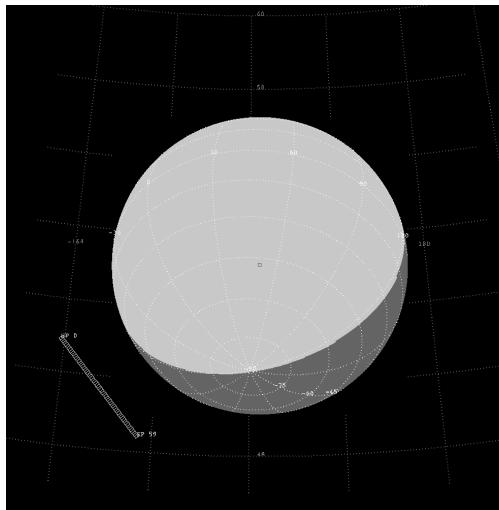


Figure 493: Frame 0

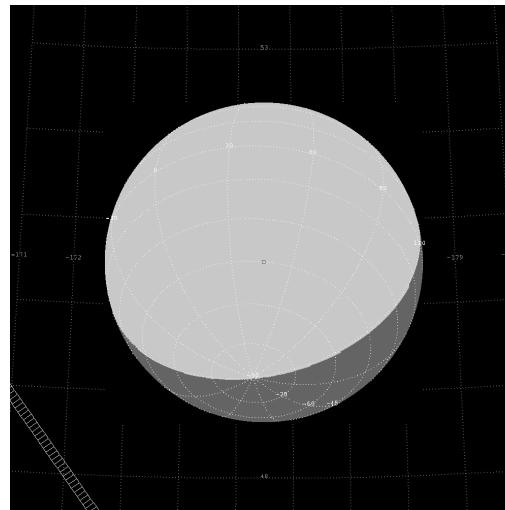


Figure 494: Frame 30

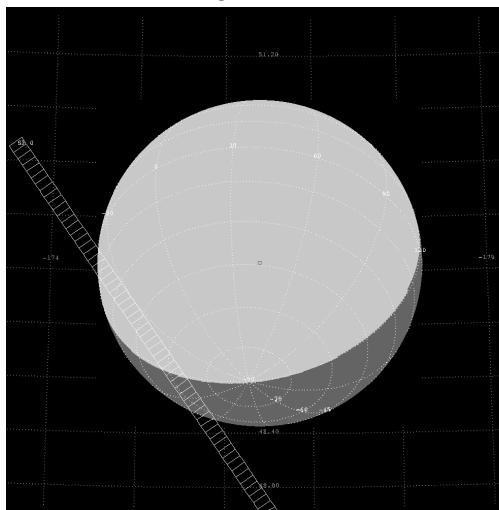


Figure 495: Frame 60

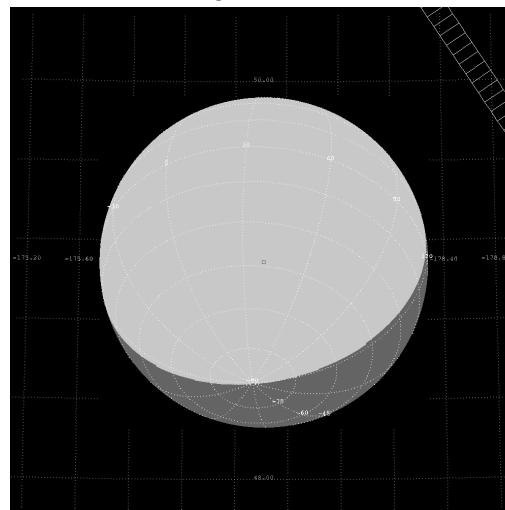


Figure 496: Frame 99

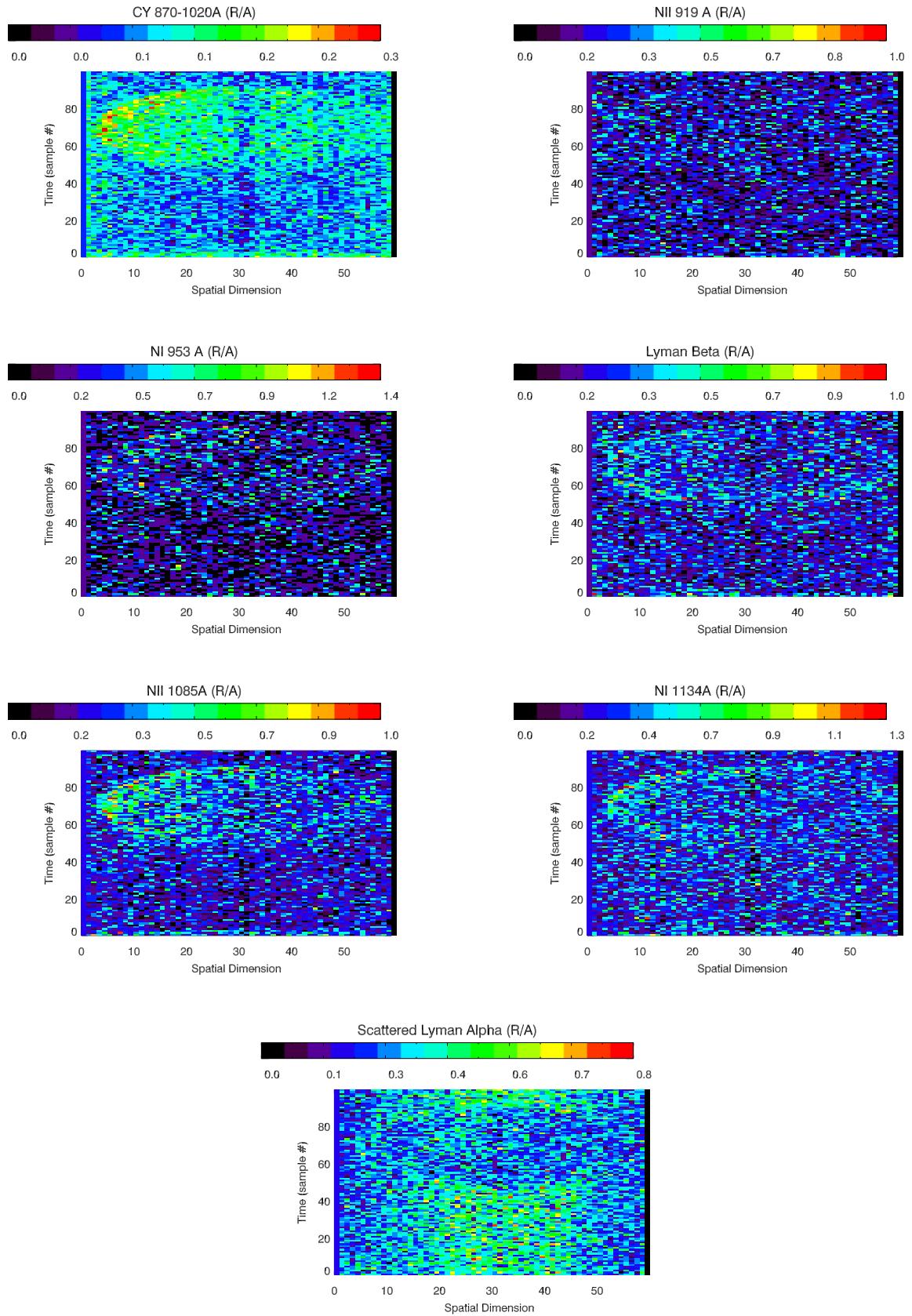


Figure 497: Panel of 7 detector images

FUV2009_157_21_48_36_UVIS_112TI_EUVFUV001_PRIME

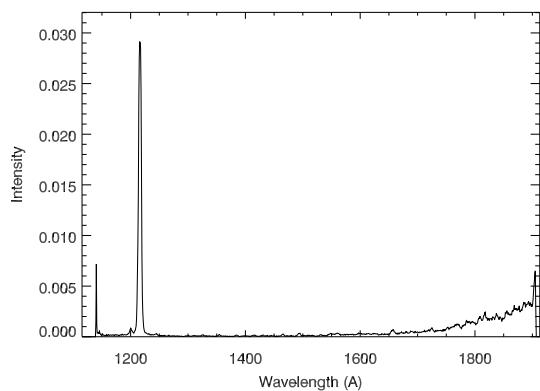


Figure 498: Spectra

body phase angle (deg): 45.9
distance (km): 106978.
Lon sub-s/c (180E): 315.6
Lat sub-s/c: -44.7
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 499: Geometry data

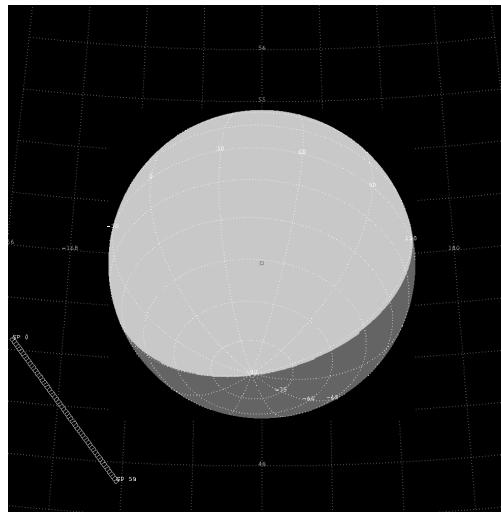


Figure 500: Frame 10

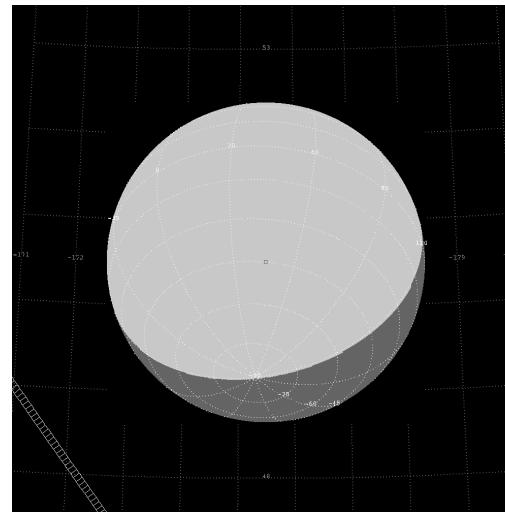


Figure 501: Frame 30

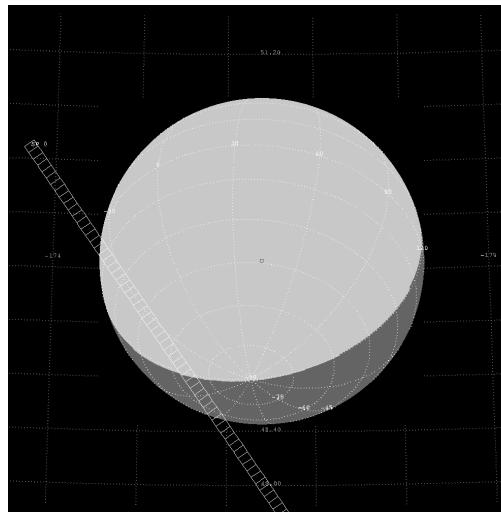


Figure 502: Frame 60

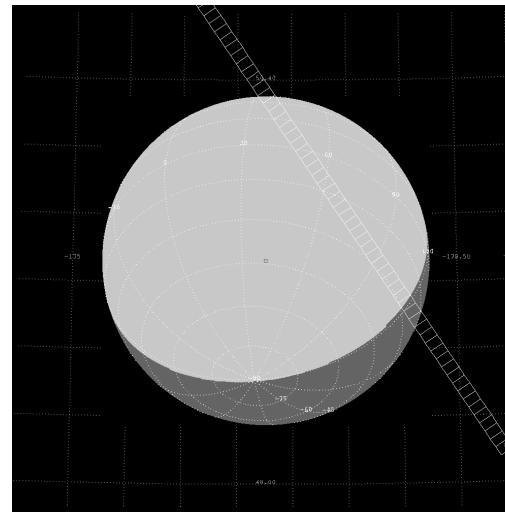


Figure 503: Frame 80

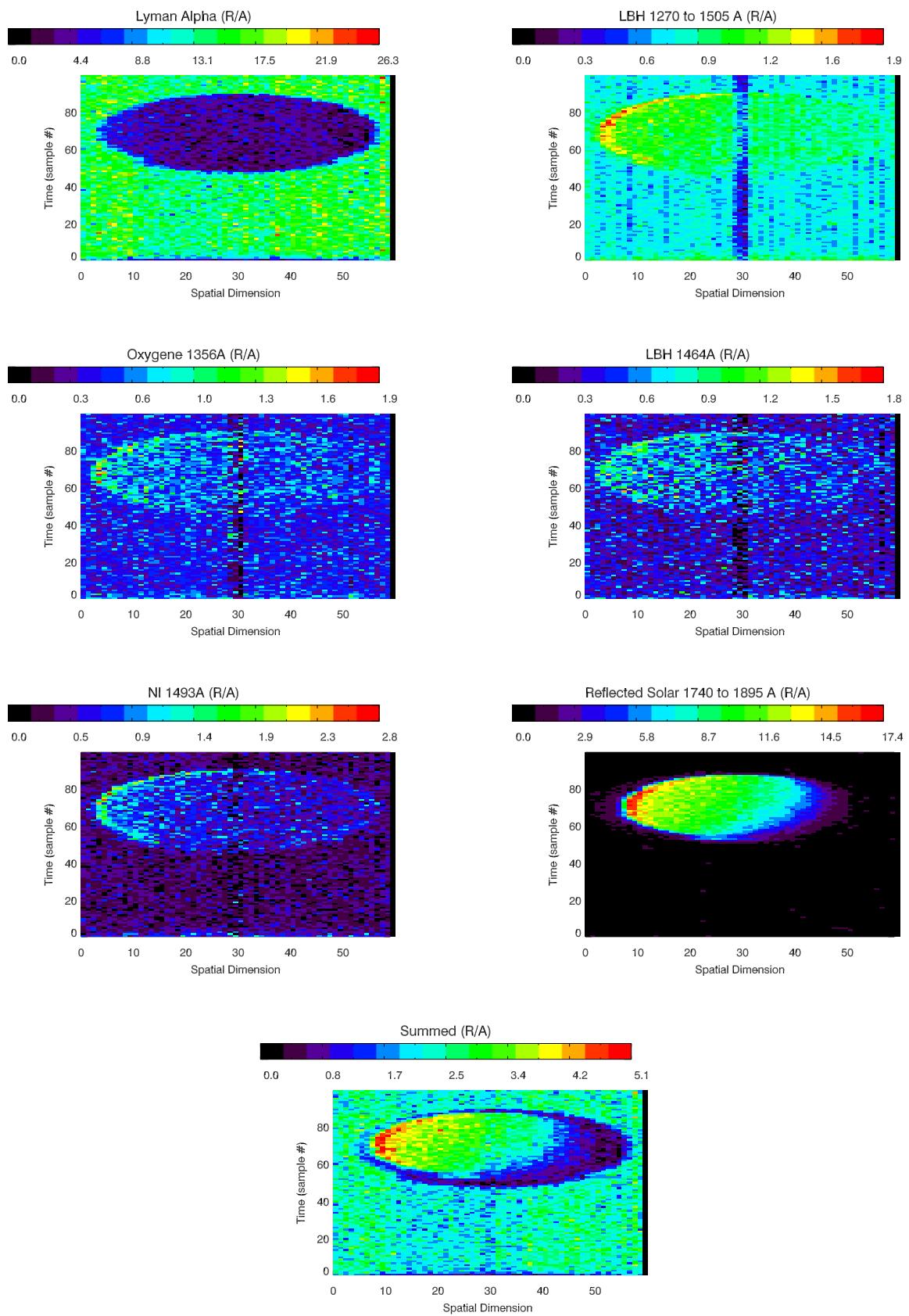


Figure 504: Panel of 7 detector images

EUV2009_173_09_42_39_UVIS_113TI_EUVFUV001_PRIME

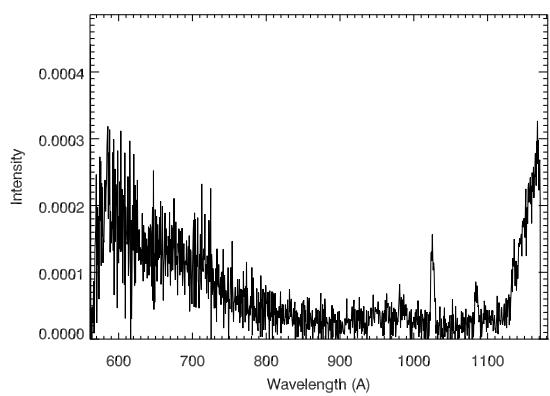


Figure 505: Spectra

body phase angle (deg): 138.1
distance (km): 125761.
Lon sub-s/c (180E): 128.1
Lat sub-s/c: 41.2
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 506: Geometry data

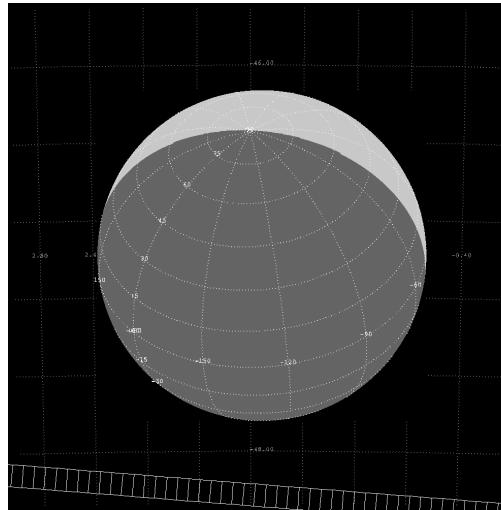


Figure 507: Frame 4

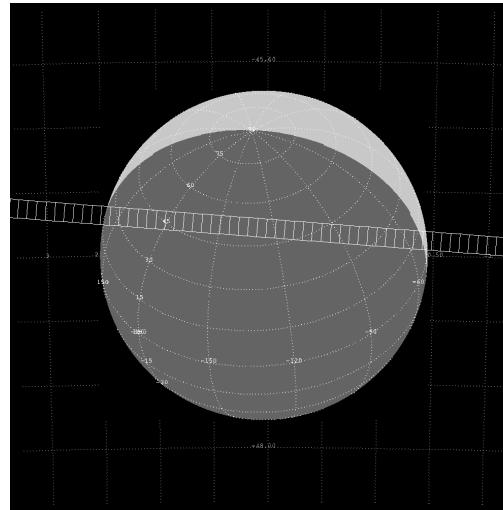


Figure 508: Frame 24

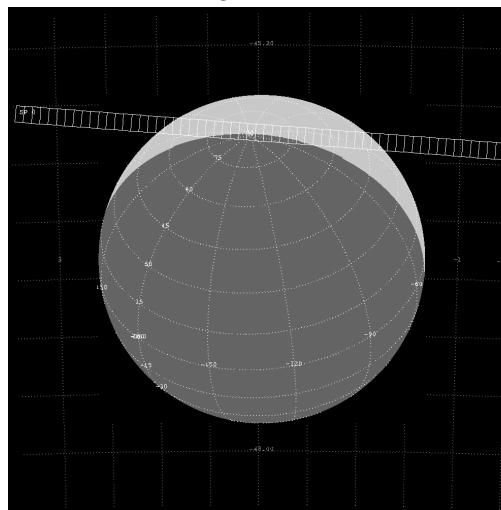


Figure 509: Frame 44

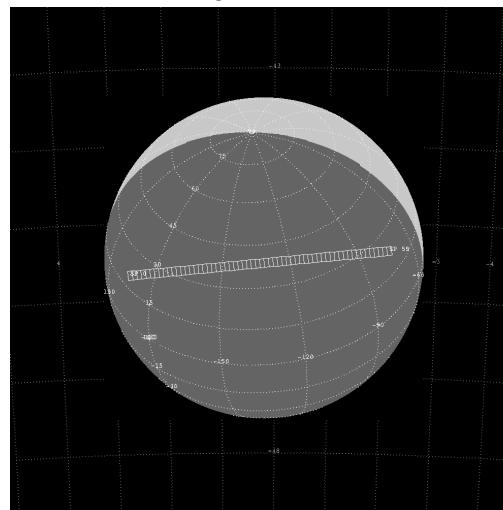


Figure 510: Frame 74

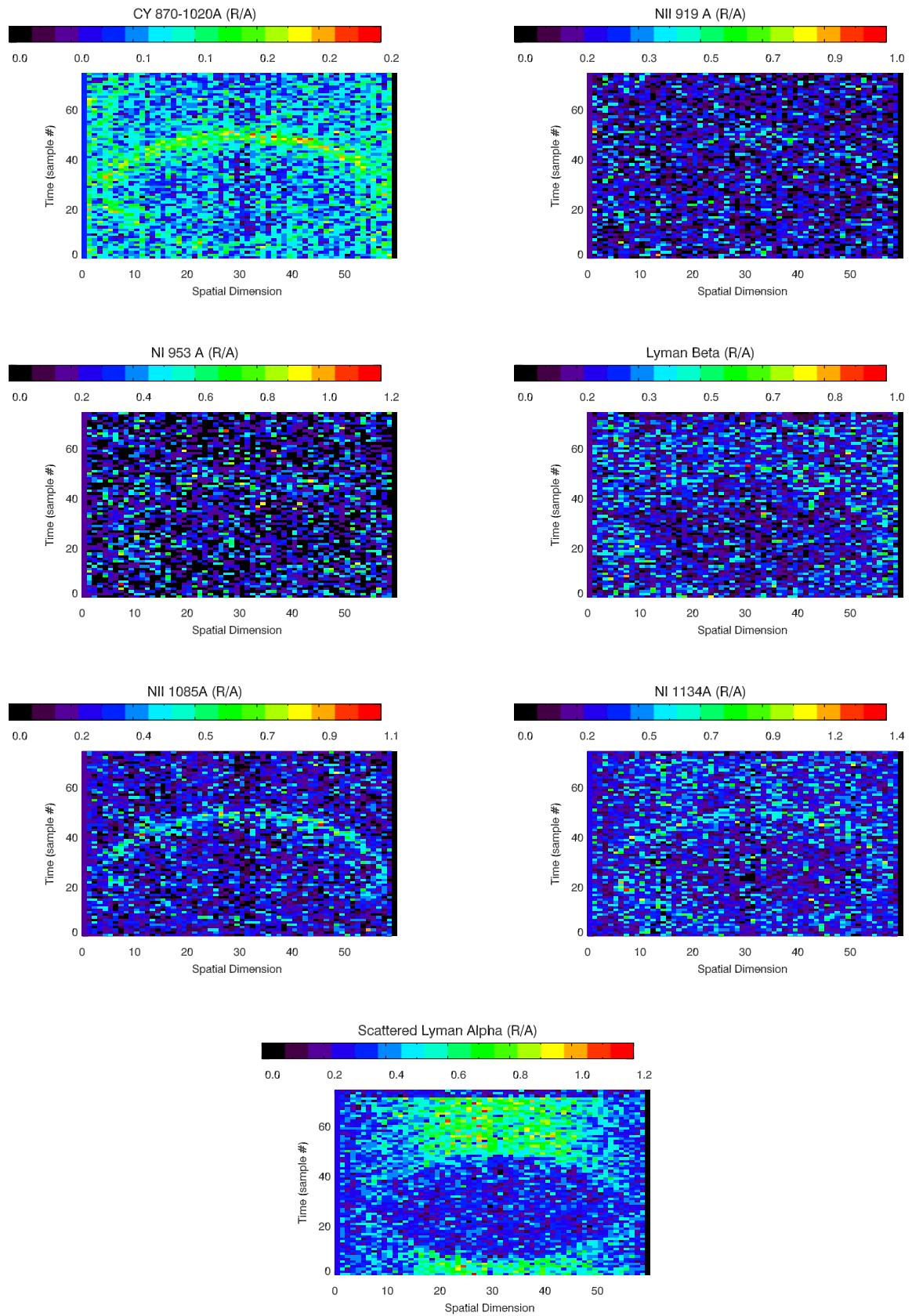


Figure 511: Panel of 7 detector images

FUV2009_173_09_42_39_UVIS_113TI_EUVFUV001_PRIME

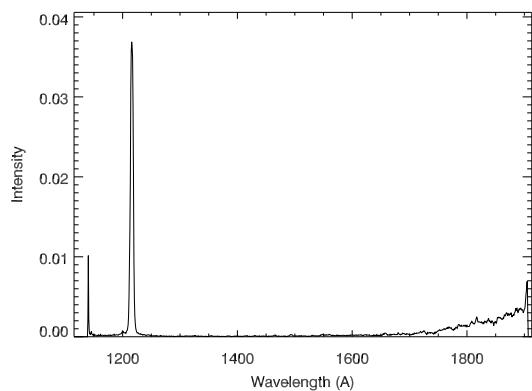


Figure 512: Spectra

body phase angle (deg): 138.1
distance (km): 125761.
Lon sub-s/c (180E): 128.1
Lat sub-s/c: 41.2
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 513: Geometry data

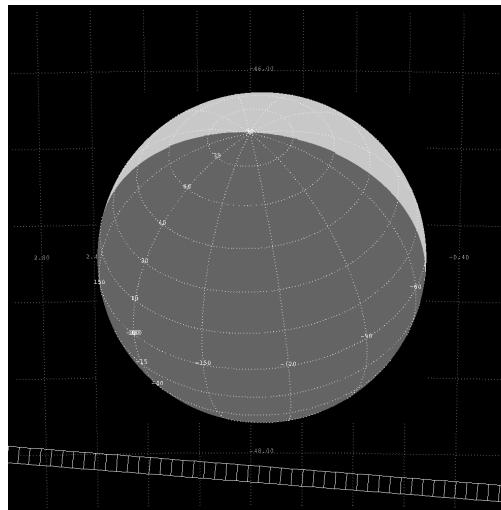


Figure 514: Frame 5

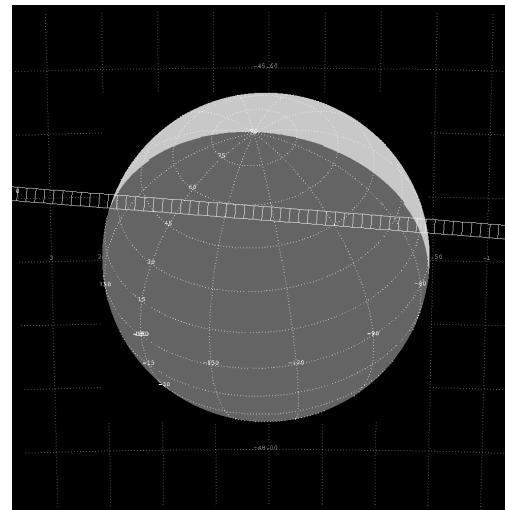


Figure 515: Frame 25

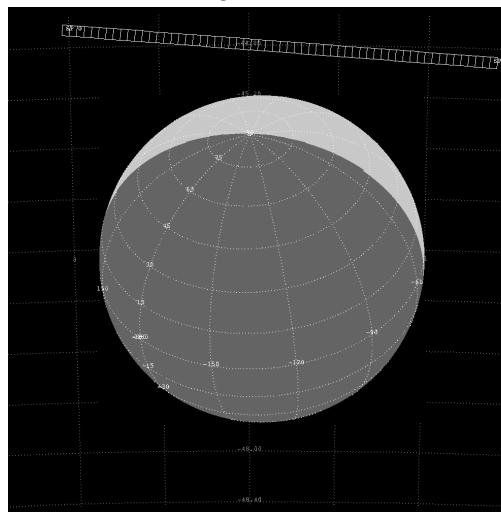


Figure 516: Frame 45

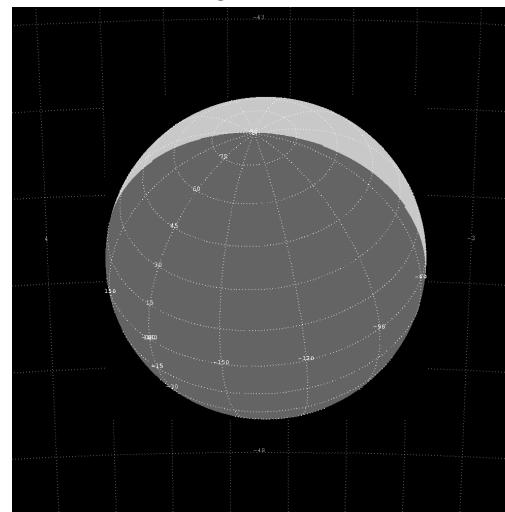


Figure 517: Frame 70

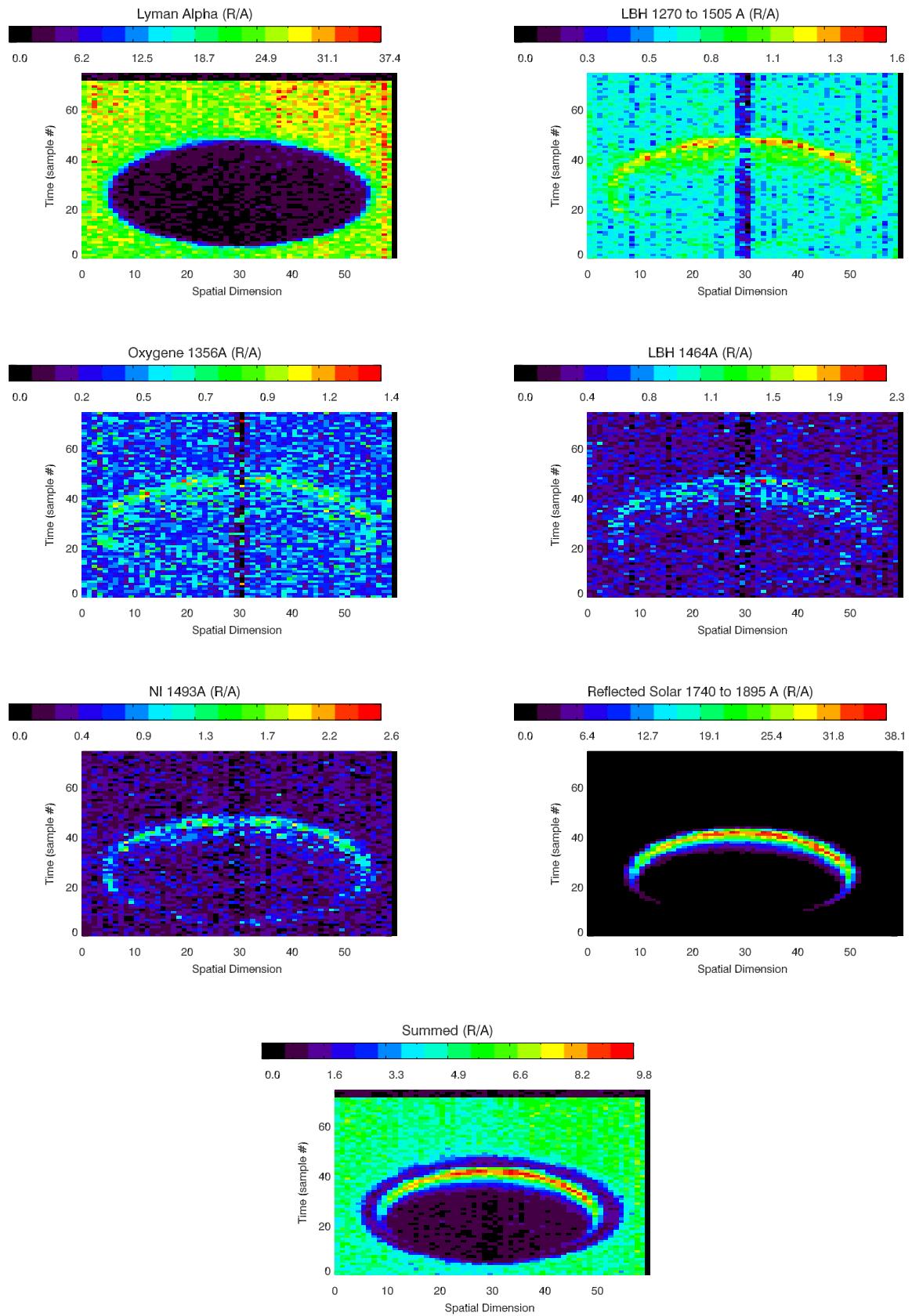


Figure 518: Panel of 7 detector images

EUV2009_173_15_16_39_UVIS_113TI_EUVFUV003_PRIME

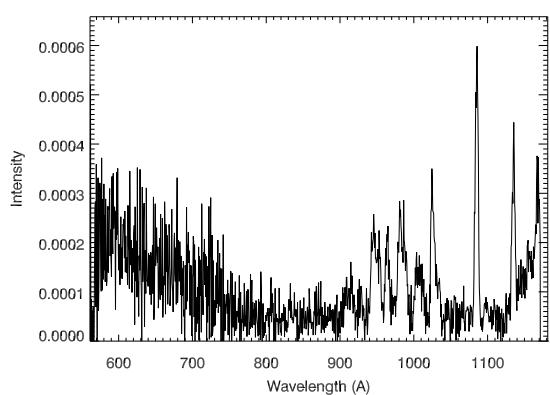


Figure 519: Spectra

body phase angle (deg): 140.0
distance (km): 57175.
Lon sub-s/c (180E): 132.5
Lat sub-s/c: 39.6
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 520: Geometry data

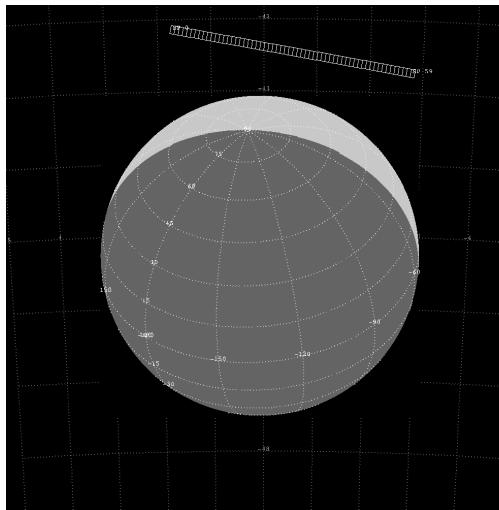


Figure 521: Frame 0

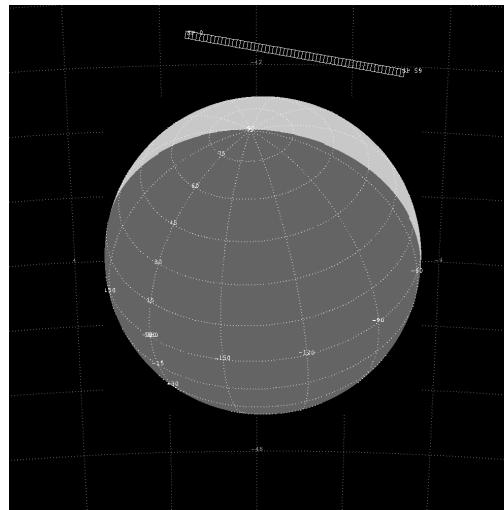


Figure 522: Frame 5

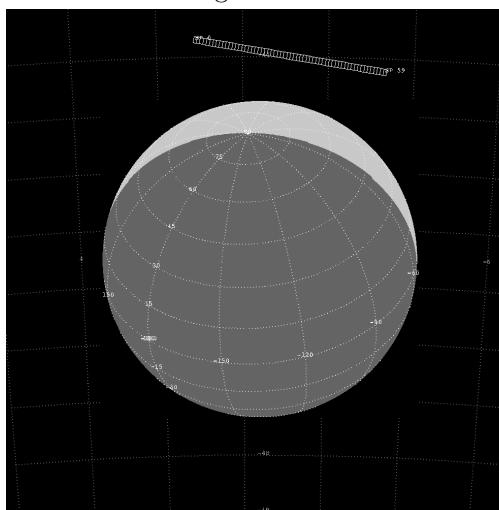


Figure 523: Frame 10

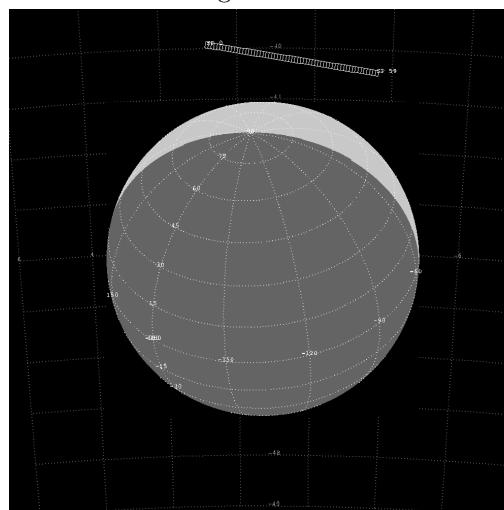


Figure 524: Frame 14

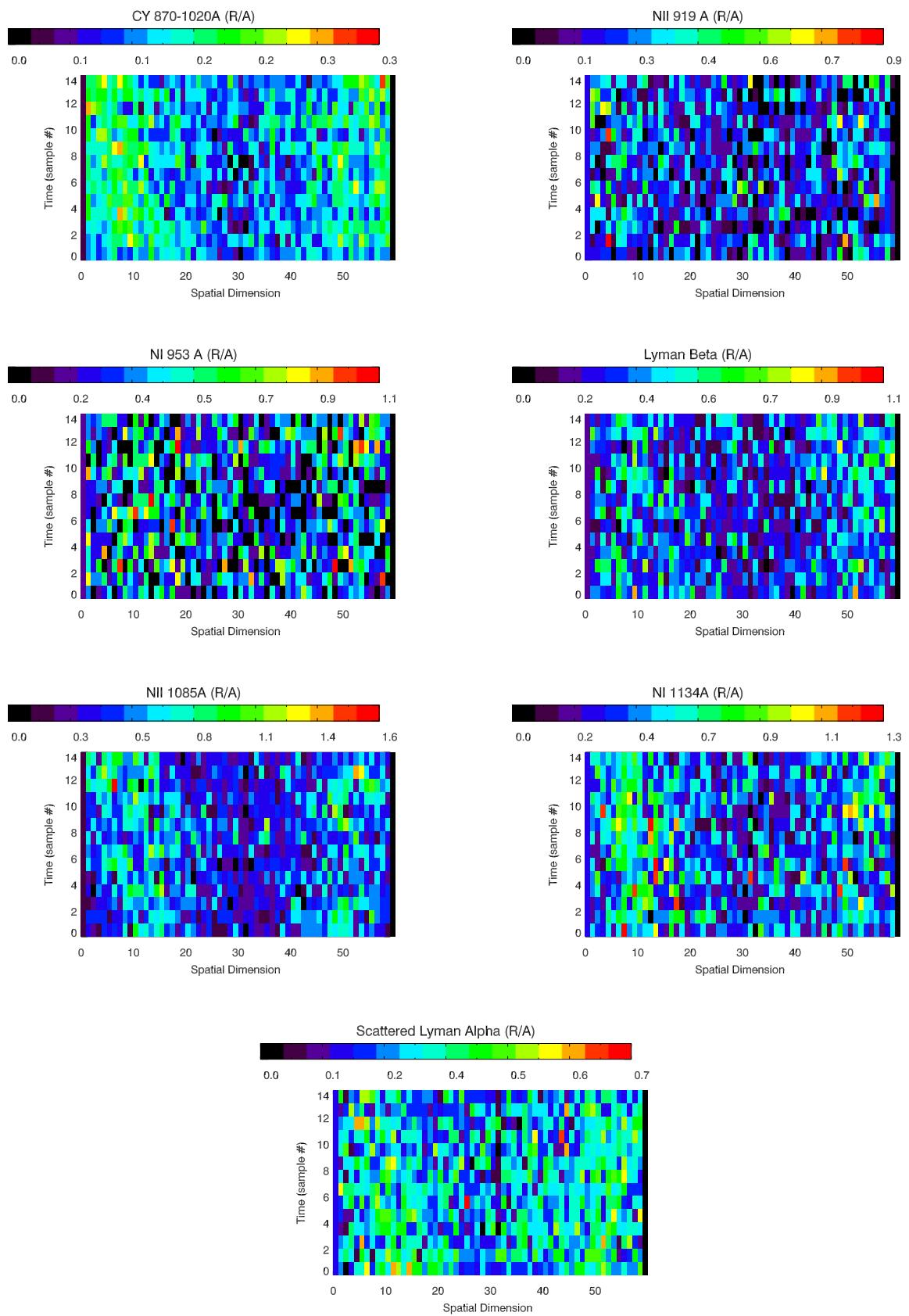


Figure 525: Panel of 7 detector images

FUV2009_173_15_16_39_UVIS_113TI_EUVFUV003_PRIME

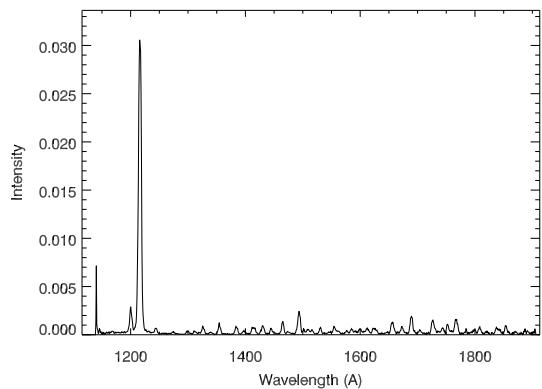


Figure 526: Spectra

body phase angle (deg): 140.0
distance (km): 57175.
Lon sub-s/c (180E): 132.5
Lat sub-s/c: 39.6
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 527: Geometry data

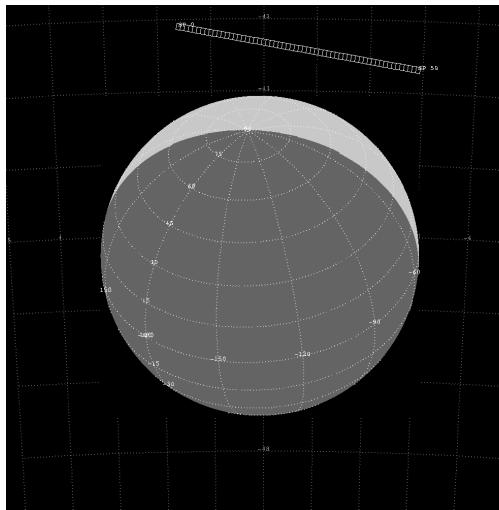


Figure 528: Frame 0

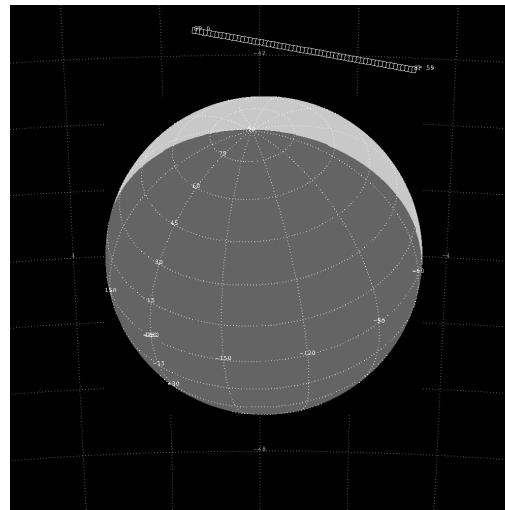


Figure 529: Frame 4

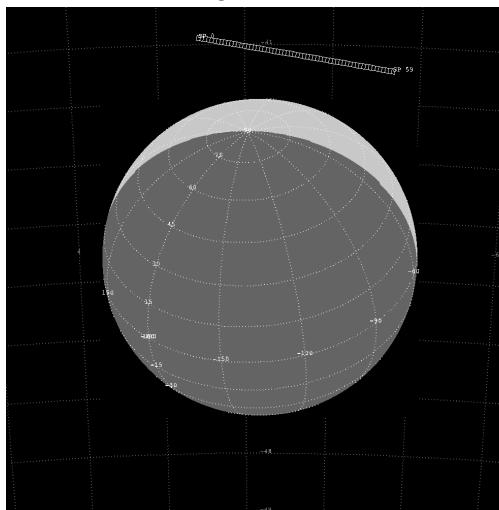


Figure 530: Frame 9

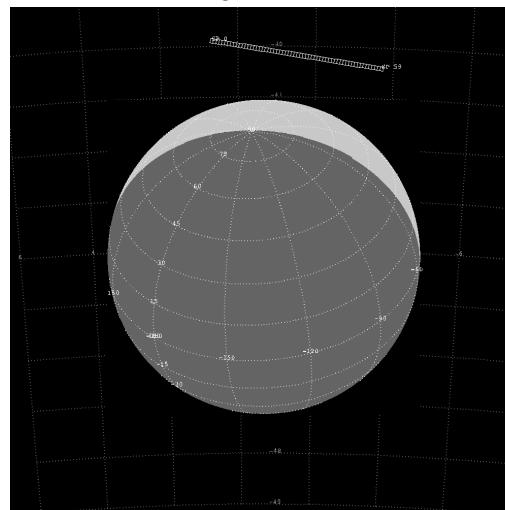


Figure 531: Frame 14

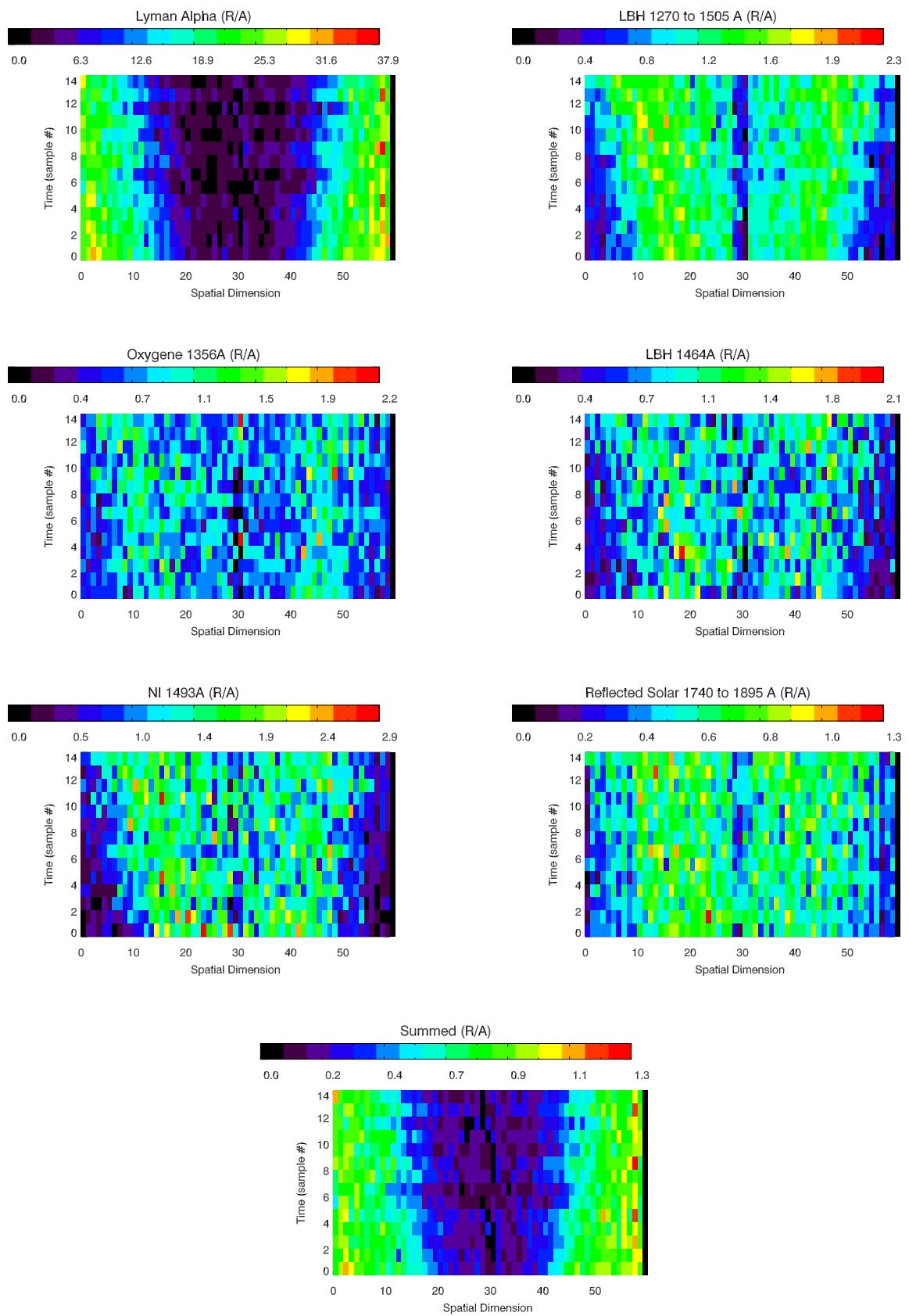


Figure 532: Panel of 7 detector images

EUV2009_174_00_12_09_UVIS_113TI_EUVFUV002_PRIME

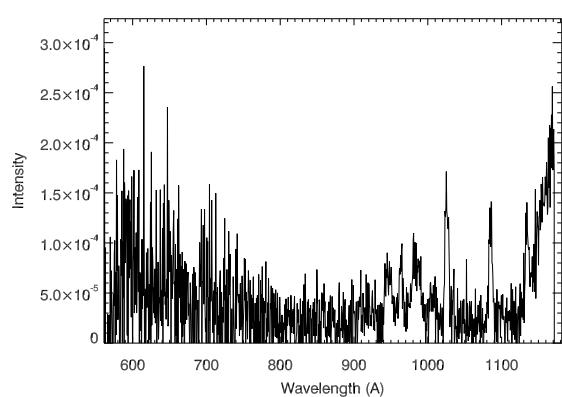


Figure 533: Spectra

body phase angle (deg): 36.7
distance (km): 140572.
Lon sub-s/c (180E): 324.0
Lat sub-s/c: -36.6
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 534: Geometry data

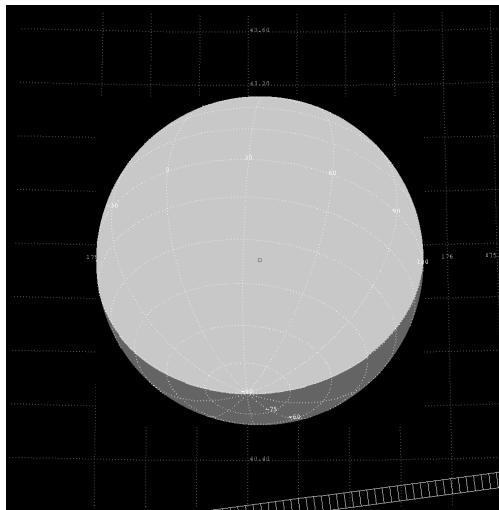


Figure 535: Frame 5

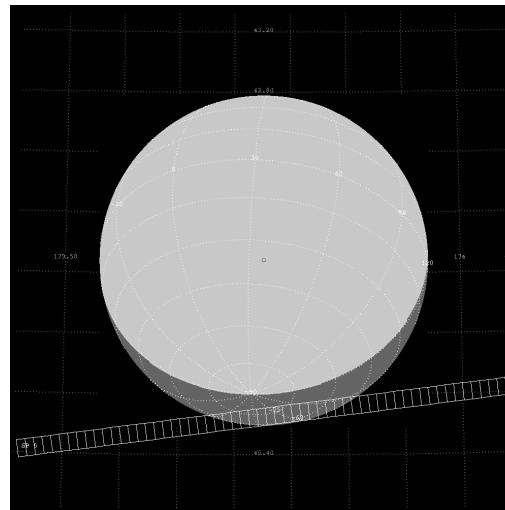


Figure 536: Frame 15

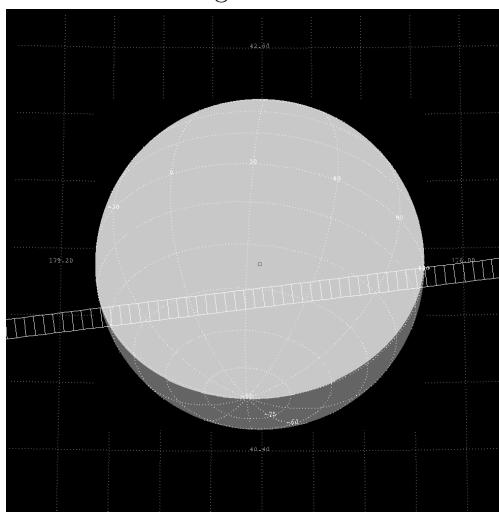


Figure 537: Frame 25

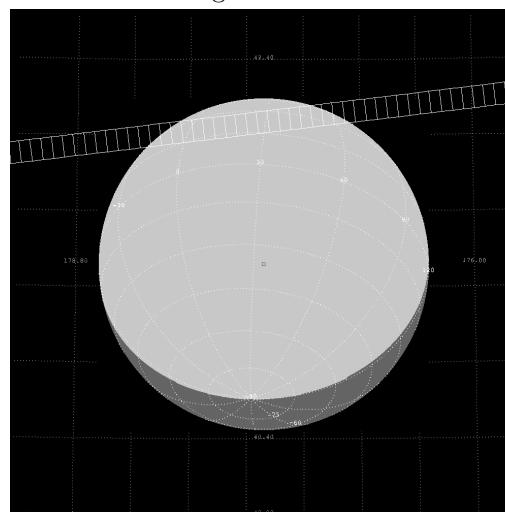


Figure 538: Frame 37

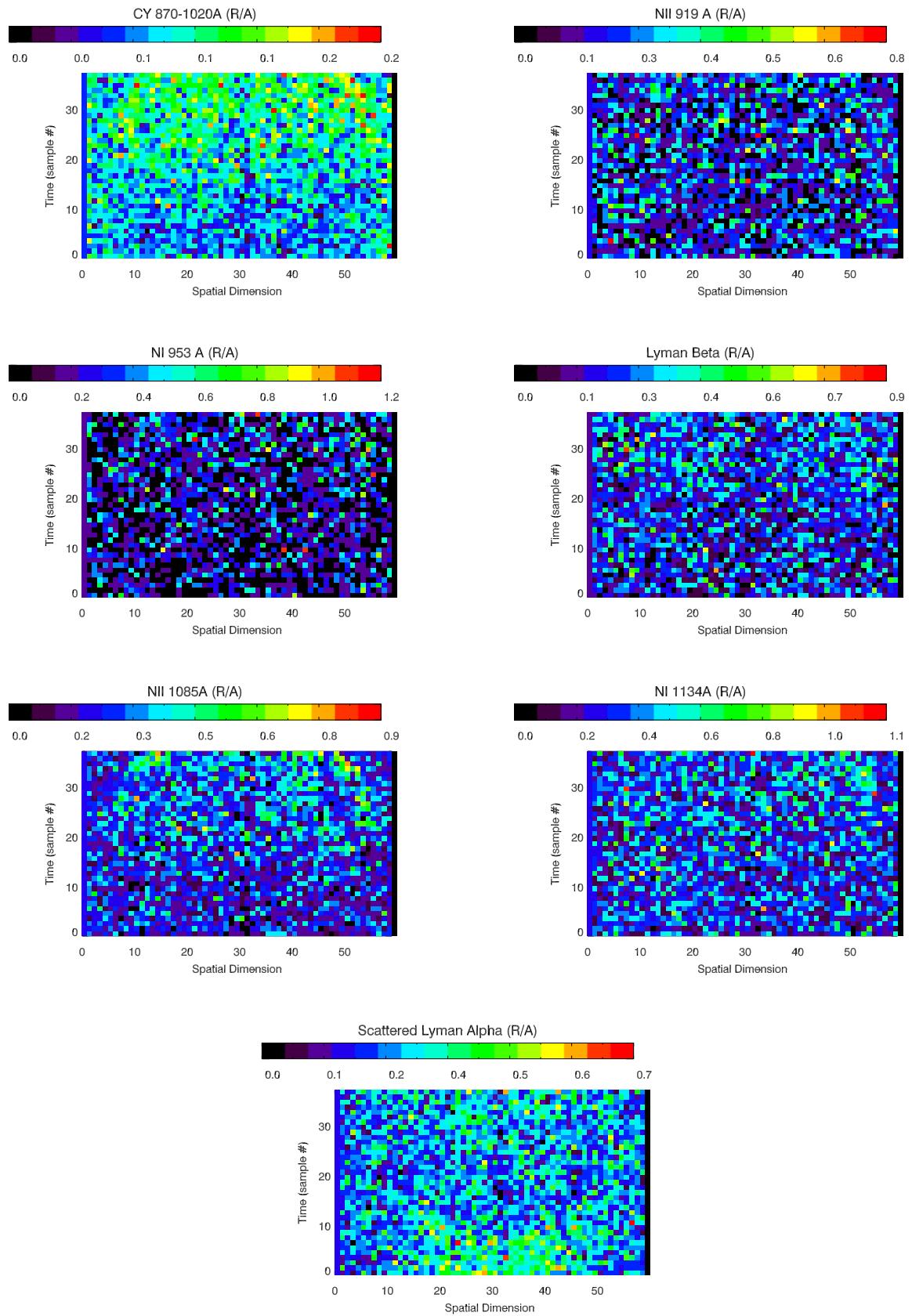


Figure 539: Panel of 7 detector images

FUV2009_174_00_12_09_UVIS_113TI_EUVFUV002_PRIME

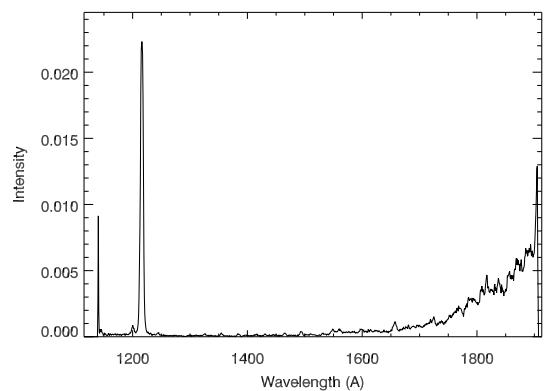


Figure 540: Spectra

body phase angle (deg): 36.7
distance (km): 140572.
Lon sub-s/c (180E): 324.0
Lat sub-s/c: -36.6
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 541: Geometry data

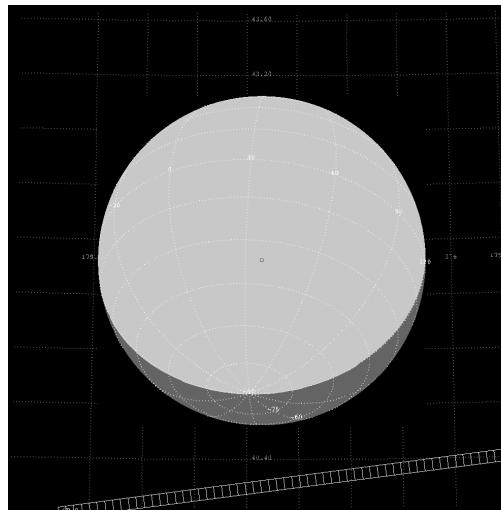


Figure 542: Frame 7

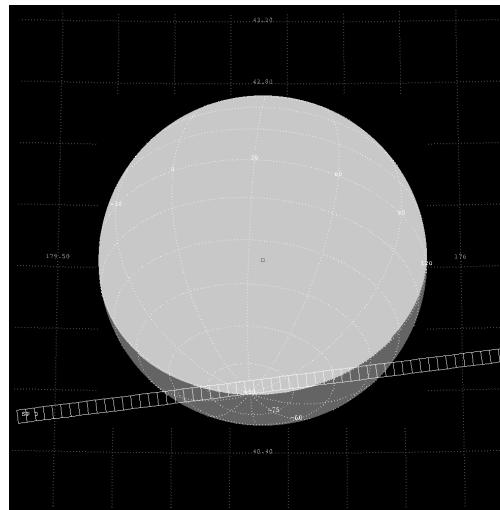


Figure 543: Frame 17

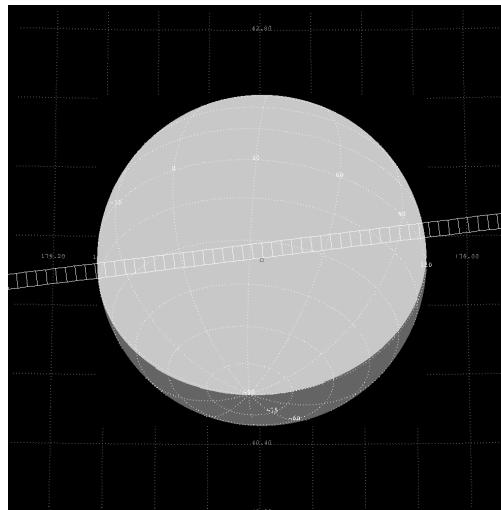


Figure 544: Frame 27

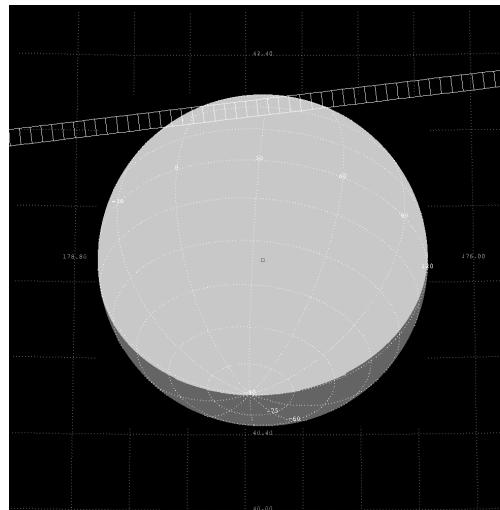


Figure 545: Frame 37

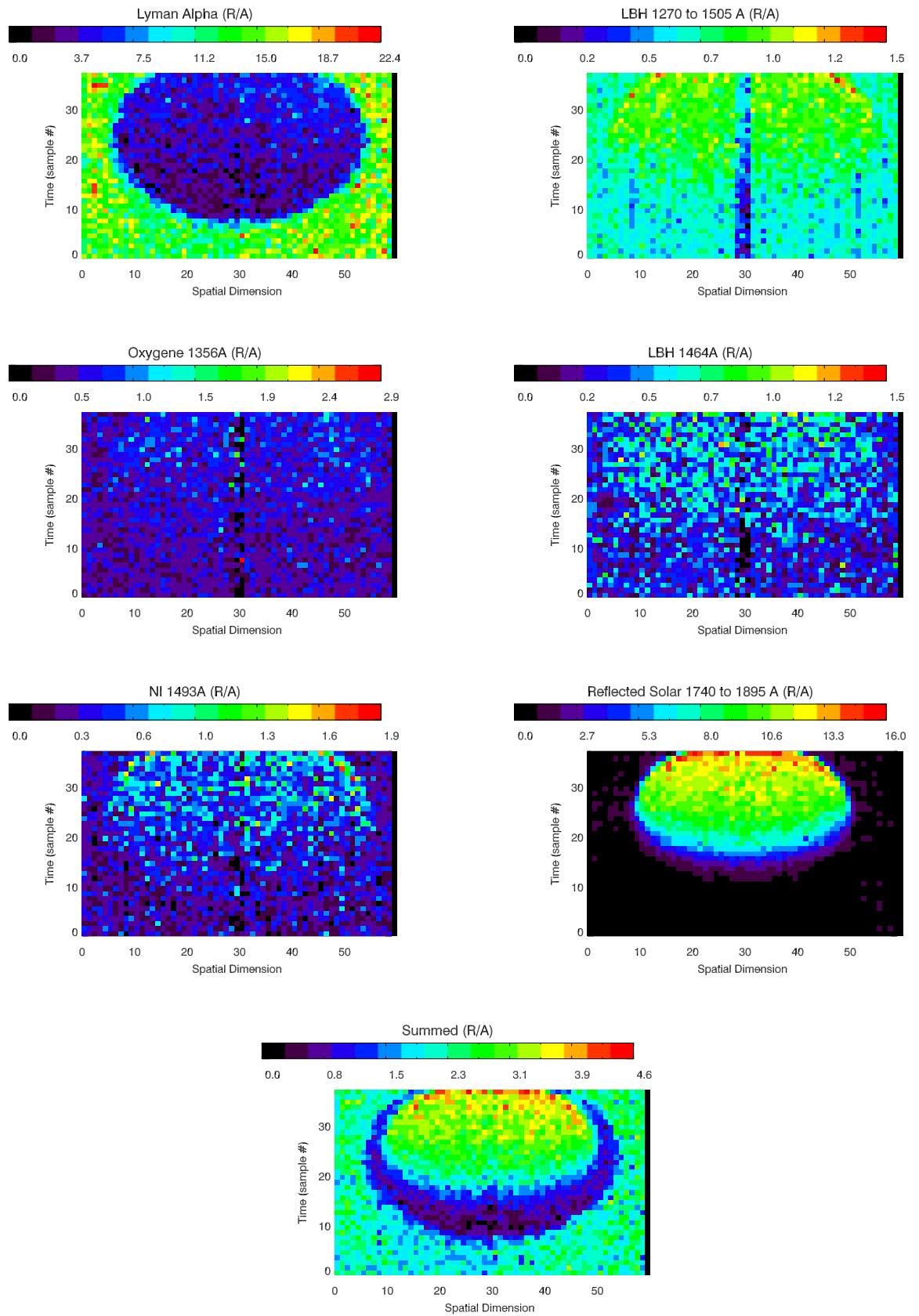


Figure 546: Panel of 7 detector images

EUV2009_189_08_12_46_UVIS_114TI_EUVFUV001_PRIME

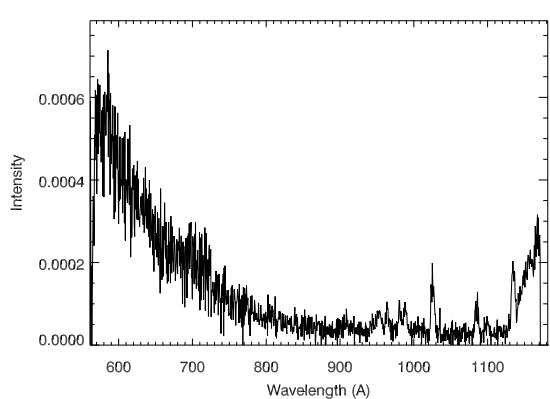


Figure 547: Spectra

body phase angle (deg): 146.2
distance (km): 142520.
Lon sub-s/c (180E): 132.4
Lat sub-s/c: 33.8
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 548: Geometry data

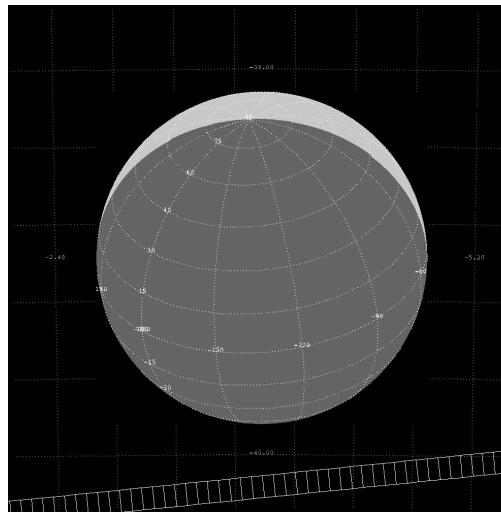


Figure 549: Frame 5

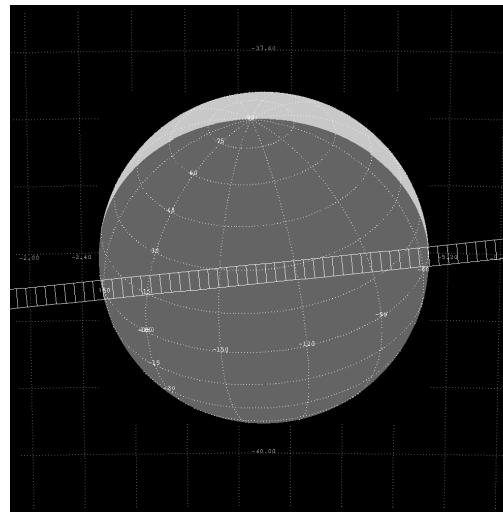


Figure 550: Frame 20

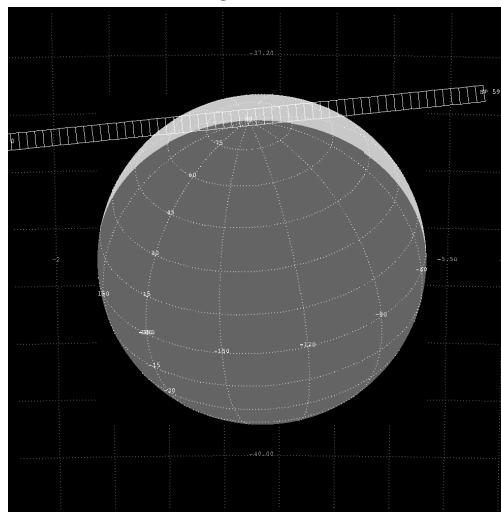


Figure 551: Frame 35

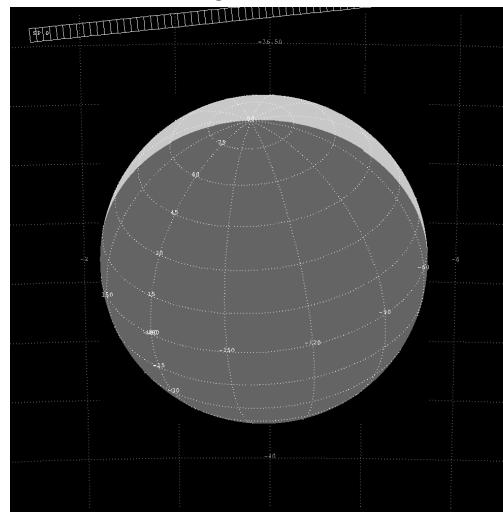


Figure 552: Frame 50

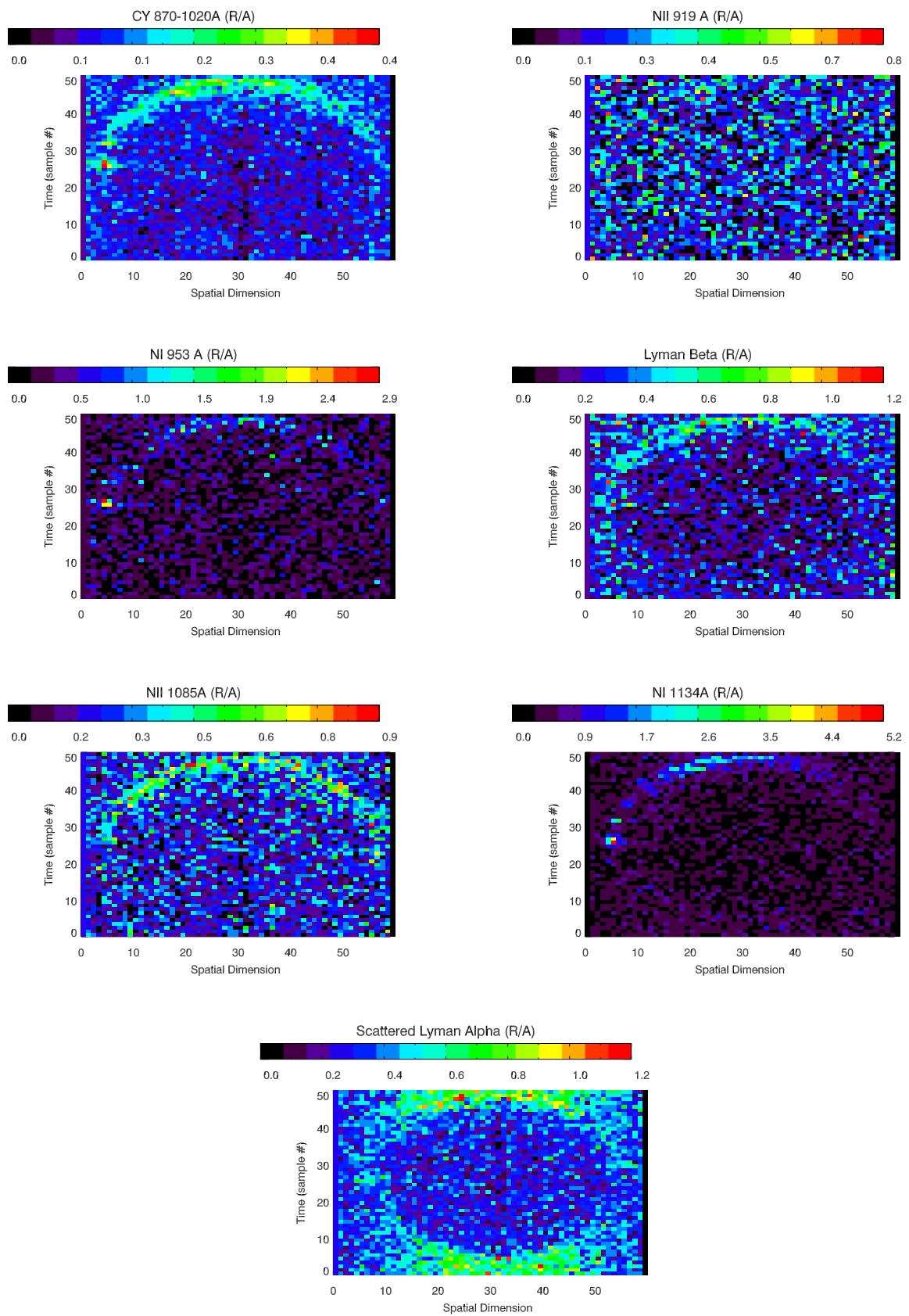


Figure 553: Panel of 7 detector images

FUV2009_189_08_12_46_UVIS_114TI_EUVFUV001_PRIME

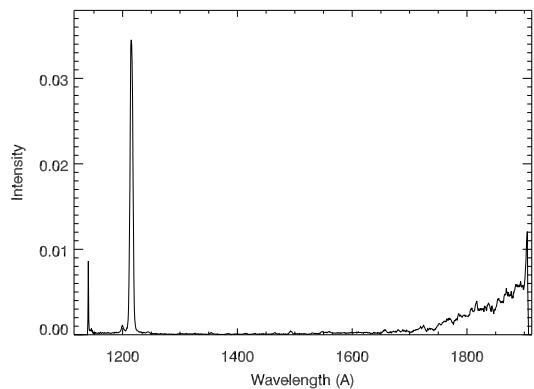


Figure 554: Spectra

body phase angle (deg): 146.2
distance (km): 142520.
Lon sub-s/c (180E): 132.4
Lat sub-s/c: 33.8
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 555: Geometry data

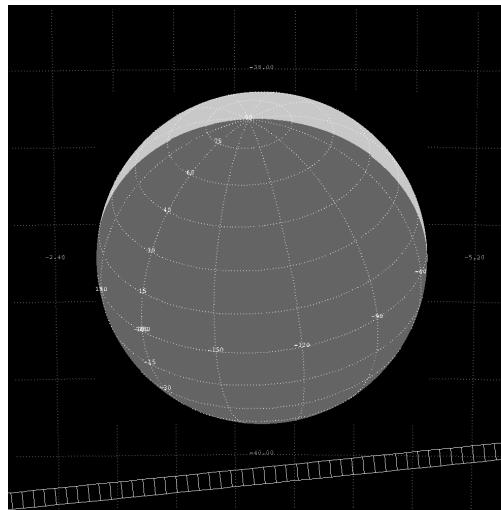


Figure 556: Frame 5

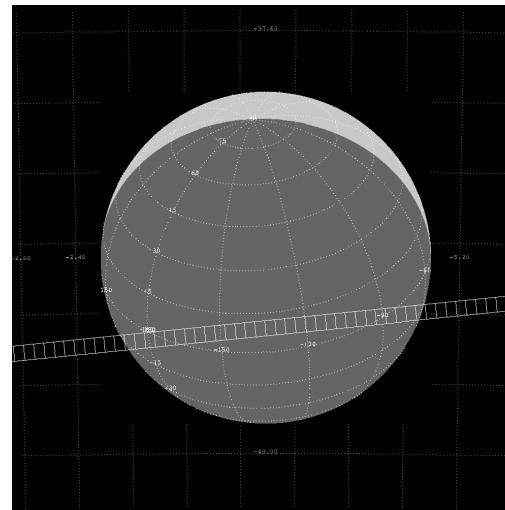


Figure 557: Frame 15

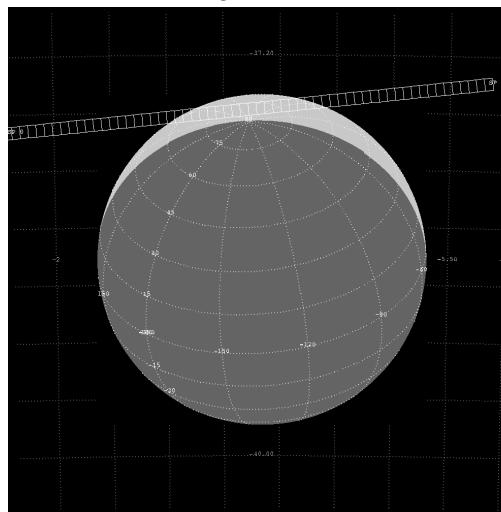


Figure 558: Frame 35

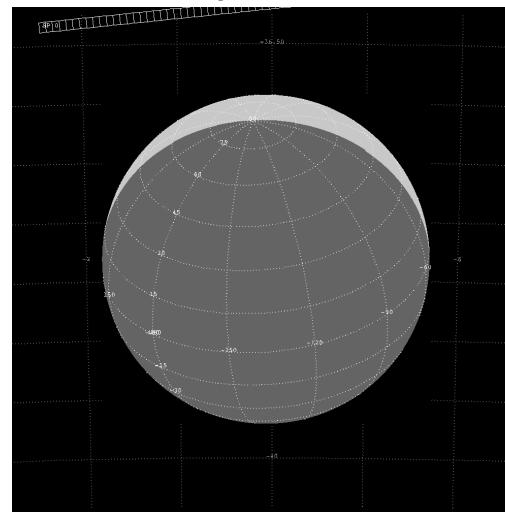


Figure 559: Frame 50

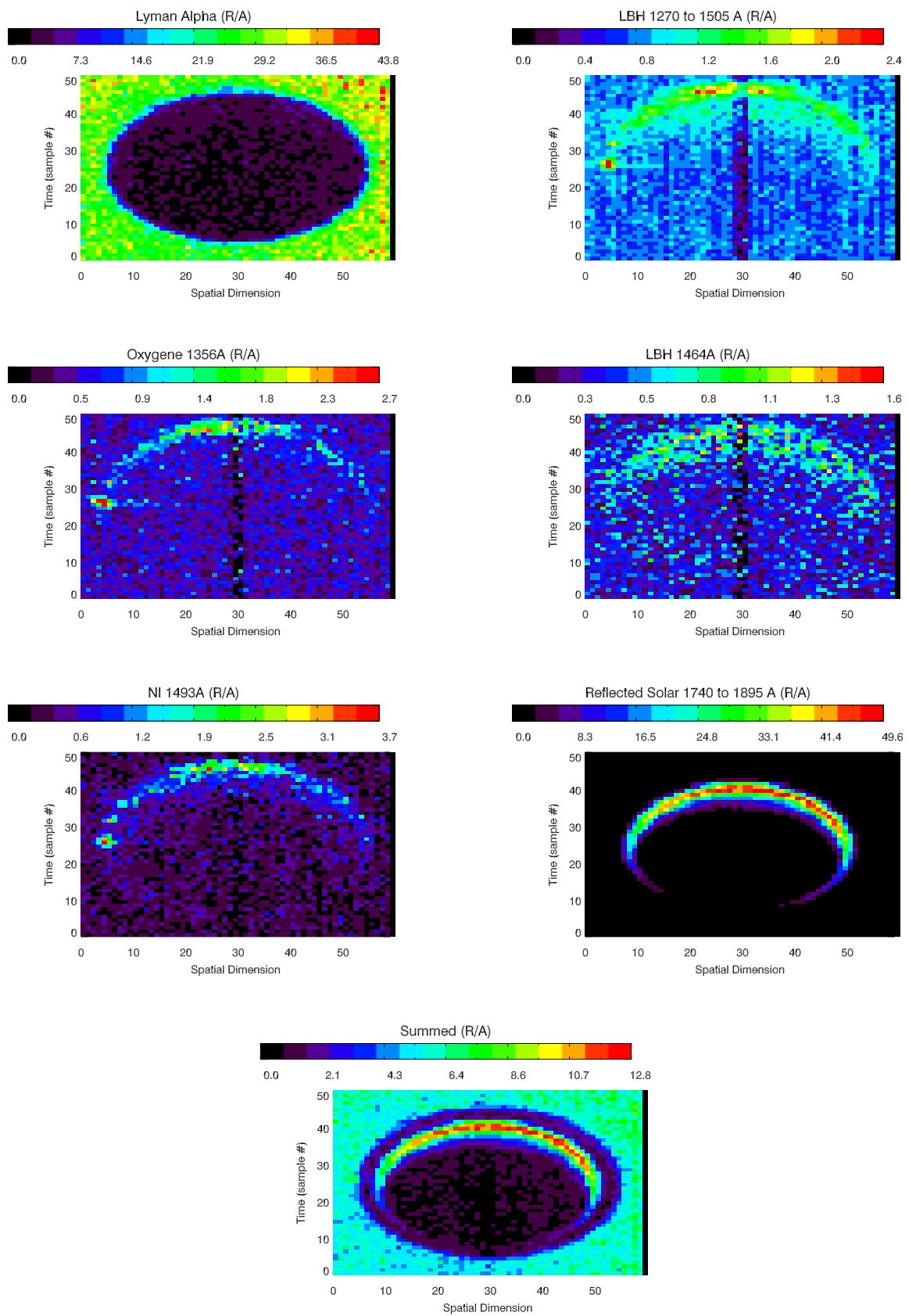


Figure 560: Panel of 7 detector images

EUV2009_189_12_02_46_UVIS_114TI_EUVFUV002_PRIME

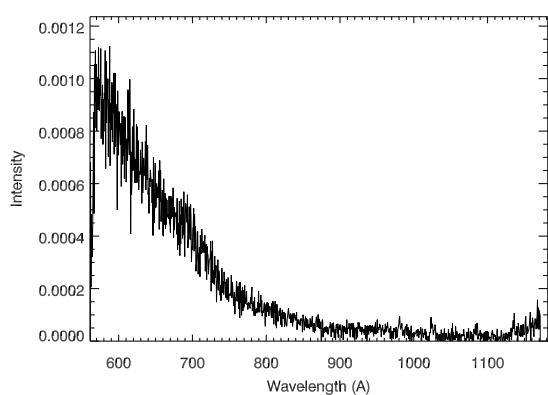


Figure 561: Spectra

body phase angle (deg): 147.5
distance (km): 76126.
Lon sub-s/c (180E): 136.0
Lat sub-s/c: 32.6
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 562: Geometry data

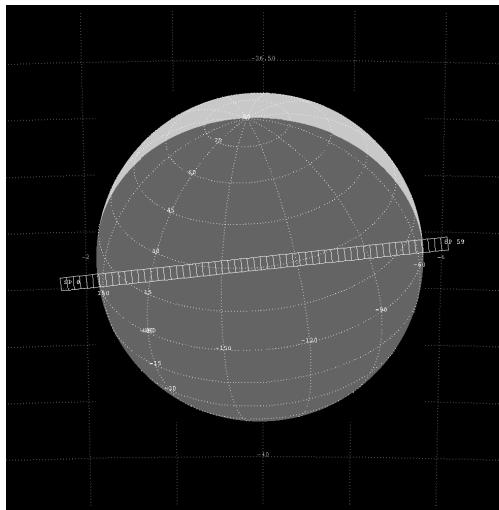


Figure 563: Frame 0

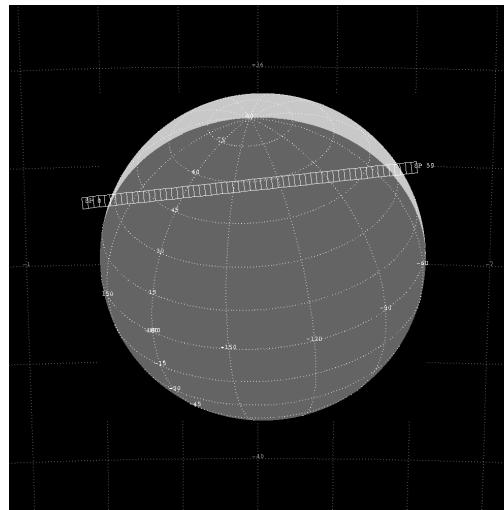


Figure 564: Frame 10

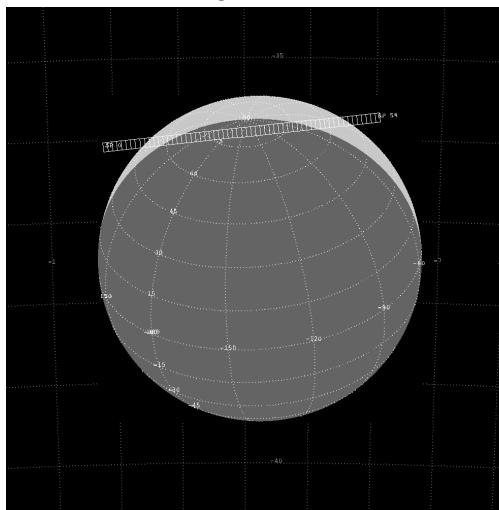


Figure 565: Frame 20

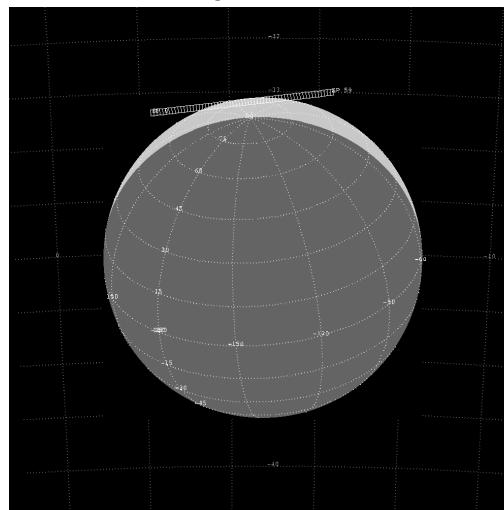


Figure 566: Frame 36

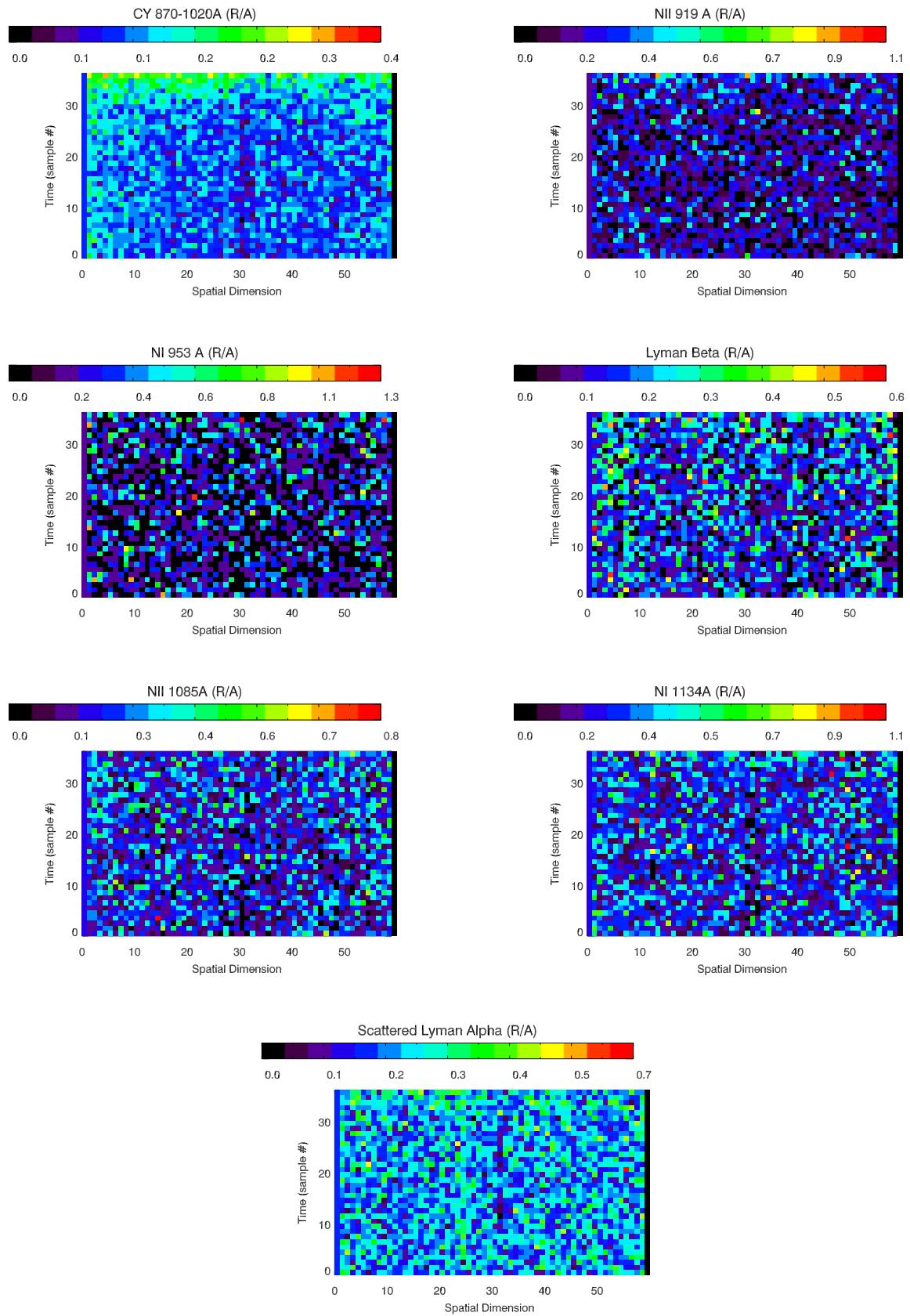


Figure 567: Panel of 7 detector images

FUV2009_189_12_02_46_UVIS_114TI_EUVFUV002_PRIME

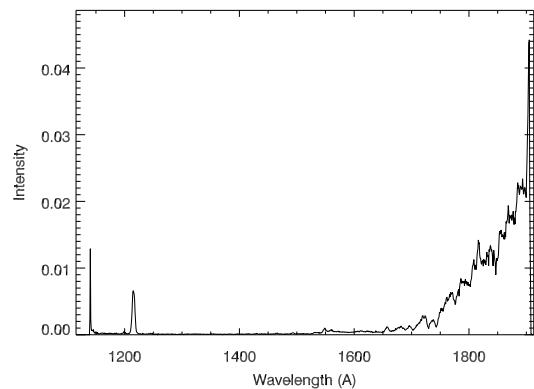


Figure 568: Spectra

body phase angle (deg): 147.5
distance (km): 76126.
Lon sub-s/c (180E): 136.0
Lat sub-s/c: 32.6
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 569: Geometry data

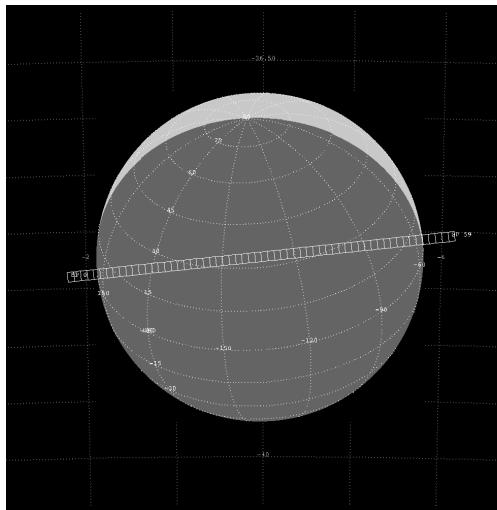


Figure 570: Frame 0

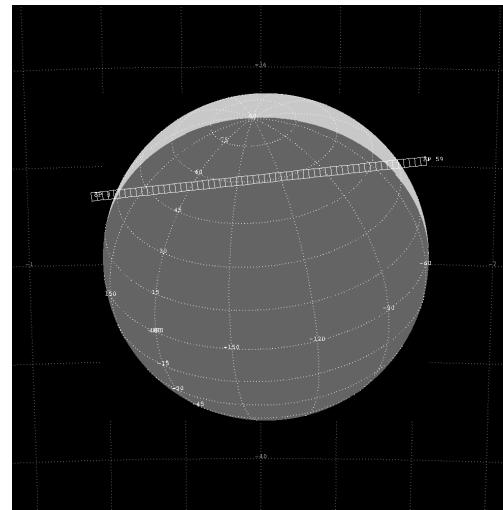


Figure 571: Frame 10

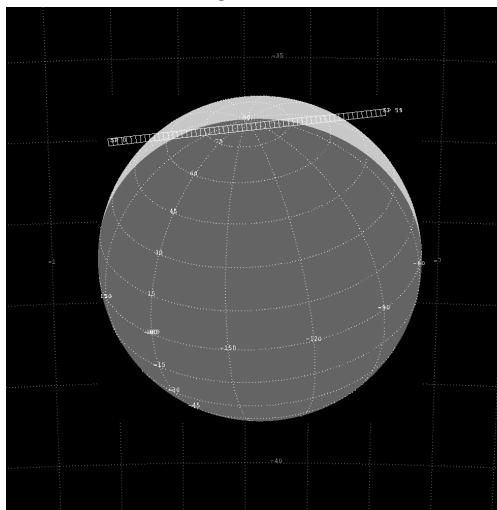


Figure 572: Frame 20

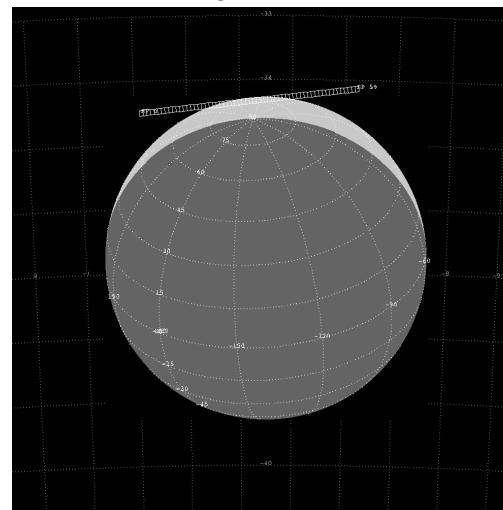


Figure 573: Frame 30

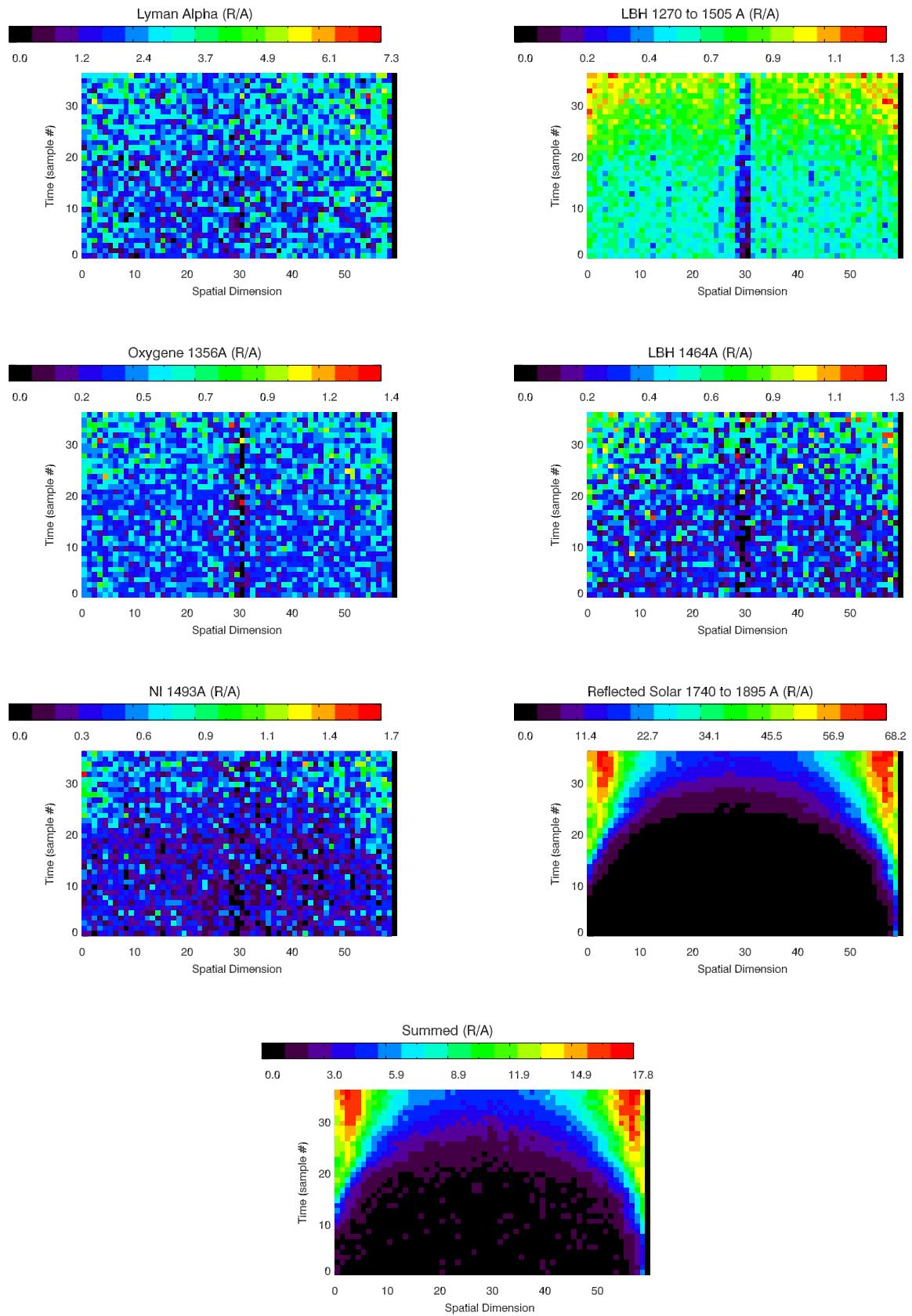


Figure 574: Panel of 7 detector images

EUV2009_285_00_04_00_UVIS_119TI_EUVFUV001_PRIME

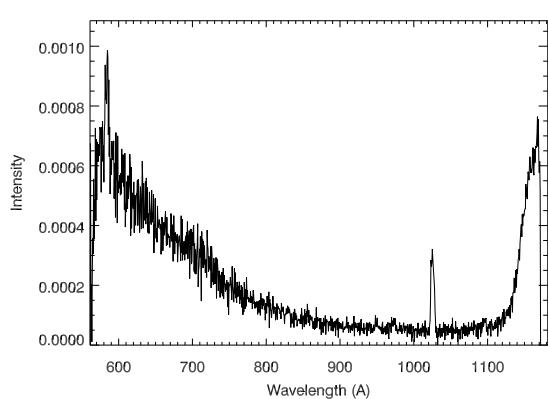


Figure 575: Spectra

body phase angle (deg): 166.4
distance (km): 111896.
Lon sub-s/c (180E): 147.8
Lat sub-s/c: 5.0
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 576: Geometry data

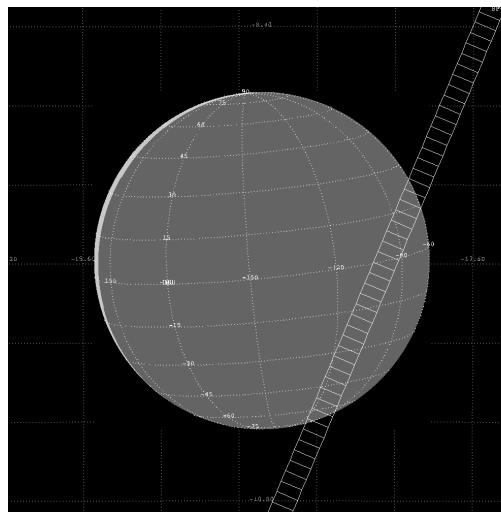


Figure 577: Frame 0

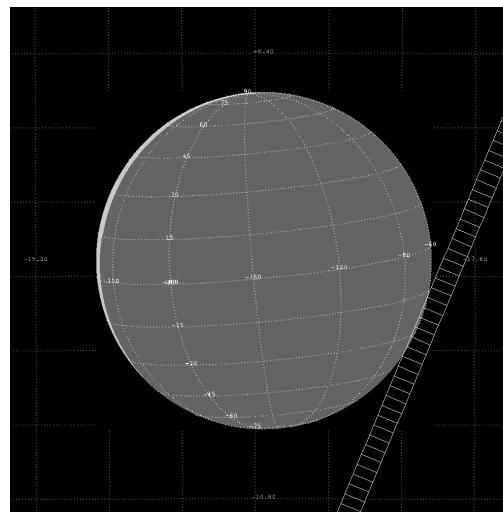


Figure 578: Frame 7

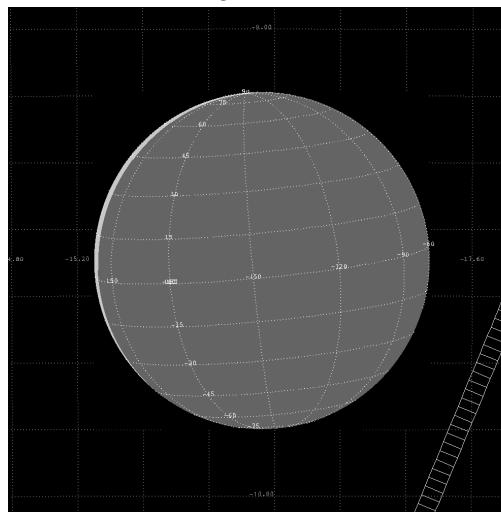


Figure 579: Frame 17

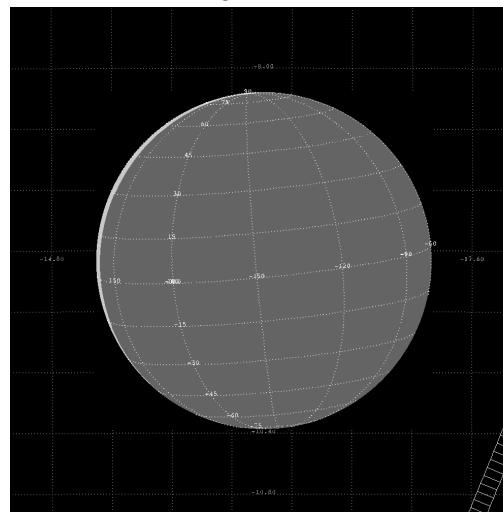


Figure 580: Frame 25

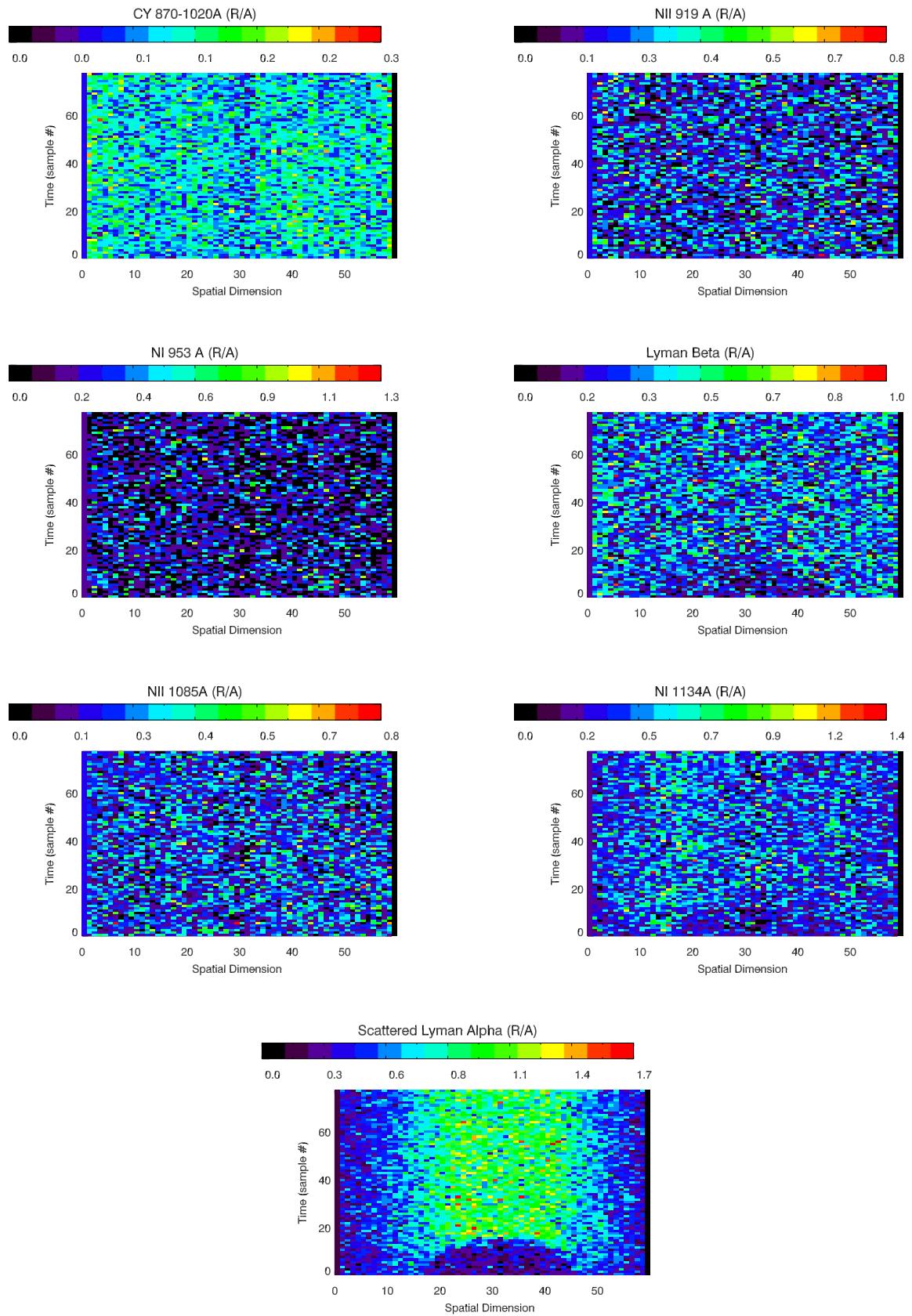


Figure 581: Panel of 7 detector images

FUV2009_285_00_04_00_UVIS_119TI_EUVFUV001_PRIME

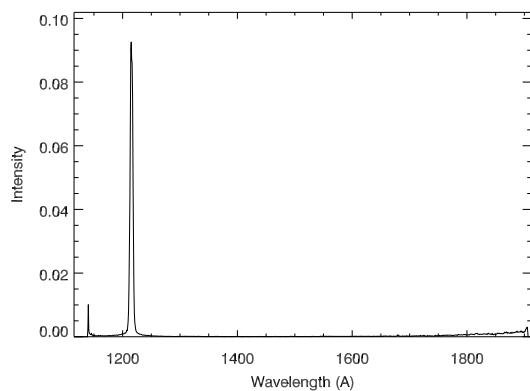


Figure 582: Spectra

body phase angle (deg): 166.4
distance (km): 111896.
Lon sub-s/c (180E): 147.8
Lat sub-s/c: 5.0
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 583: Geometry data

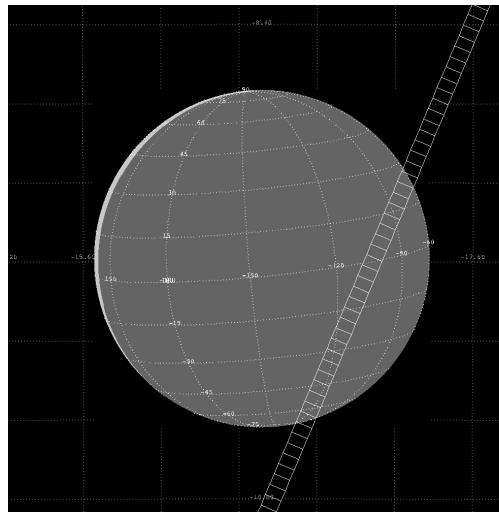


Figure 584: Frame 0

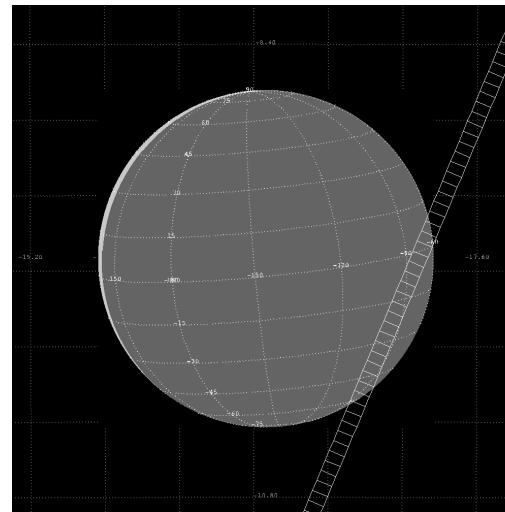


Figure 585: Frame 5

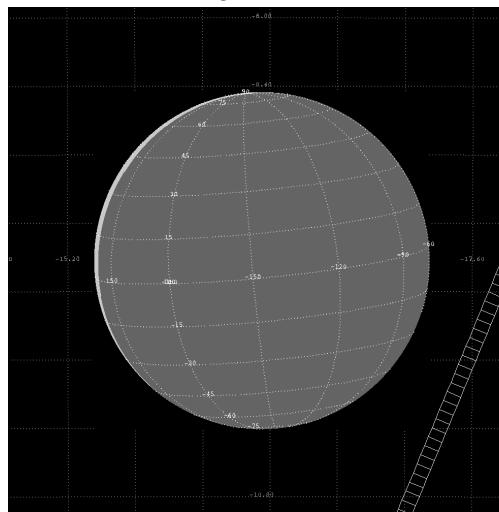


Figure 586: Frame 15

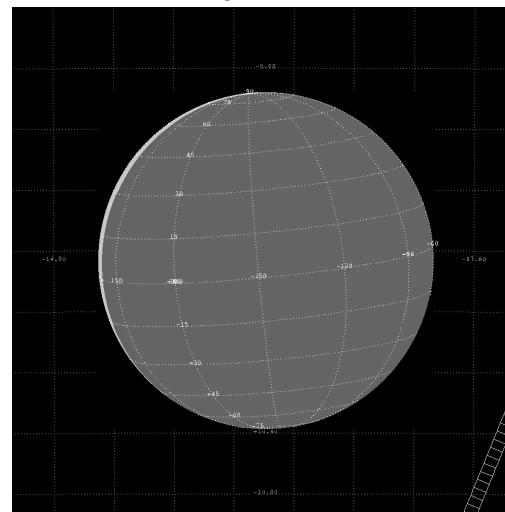


Figure 587: Frame 25

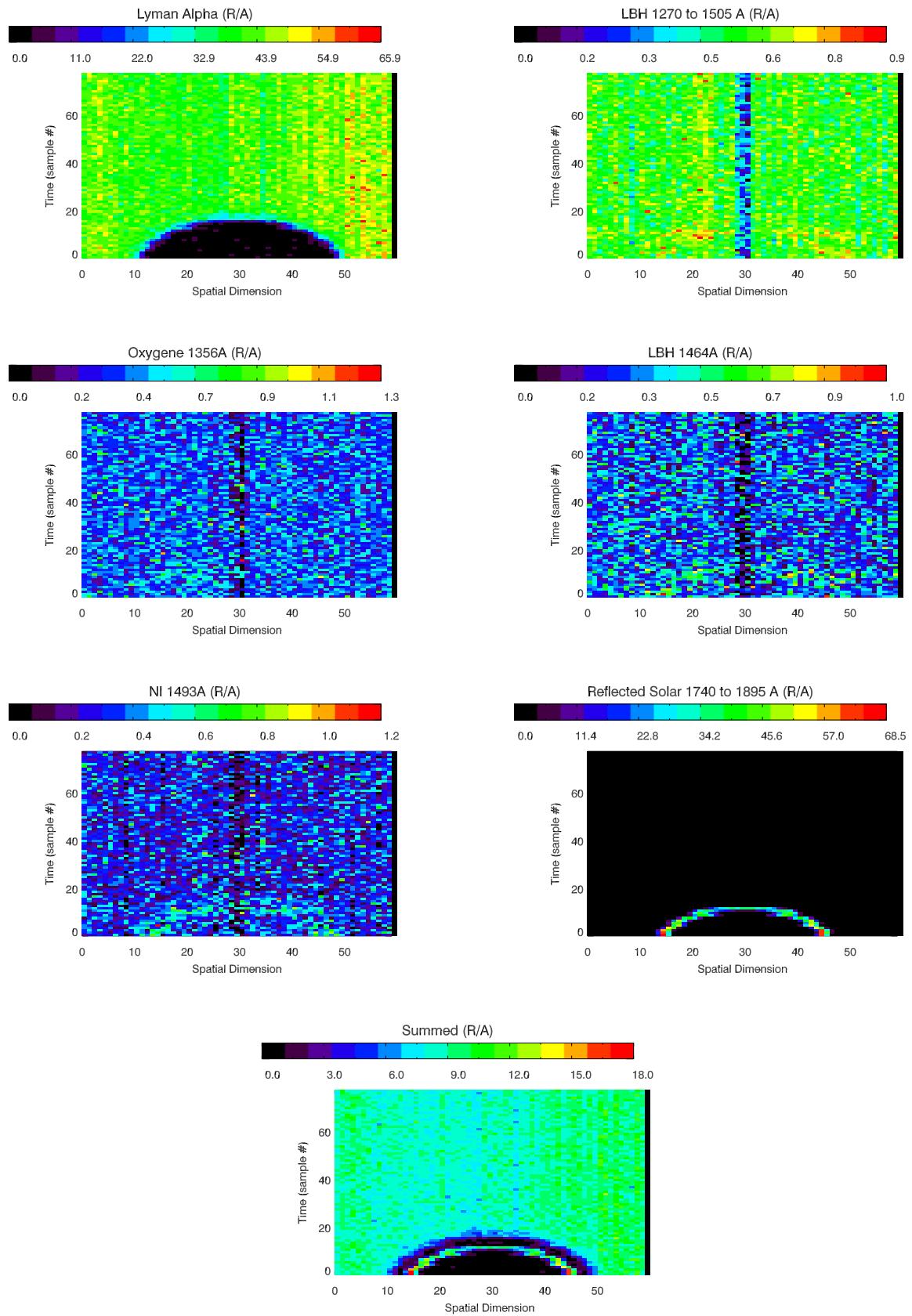


Figure 588: Panel of 7 detector images

EUV2009_285_11_41_05_UVIS_119TI_EUVFUV002_PRIME

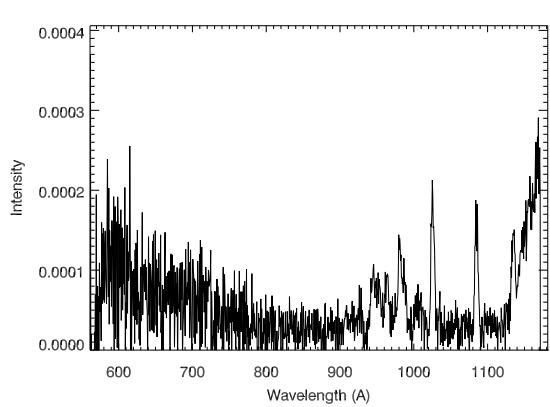


Figure 589: Spectra

body phase angle (deg): 11.1
distance (km): 116848.
Lon sub-s/c (180E): 336.9
Lat sub-s/c: -2.0
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 590: Geometry data

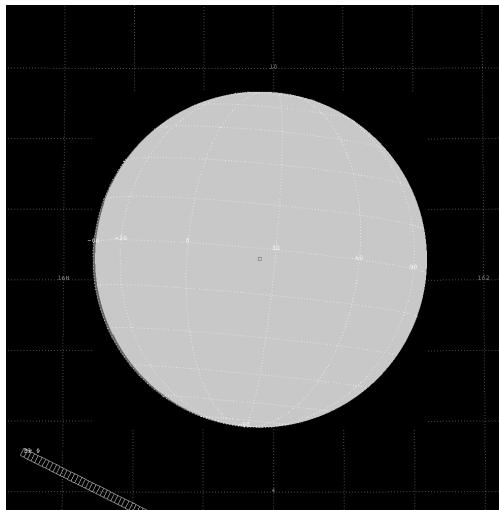


Figure 591: Frame 0

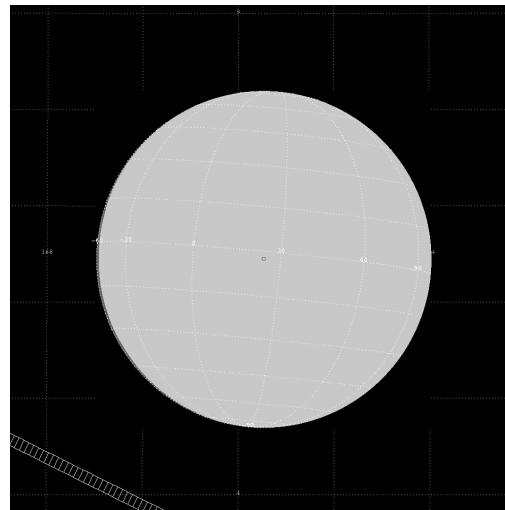


Figure 592: Frame 15

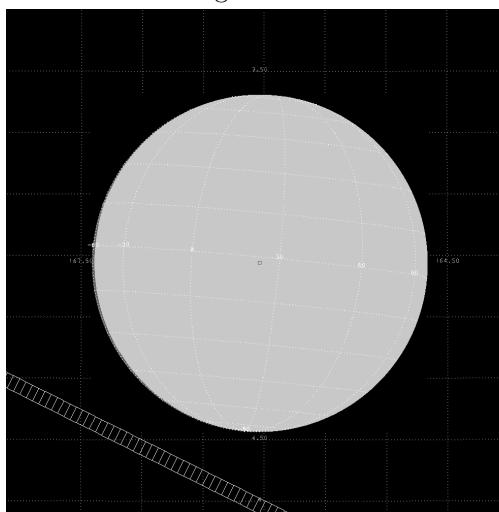


Figure 593: Frame 30

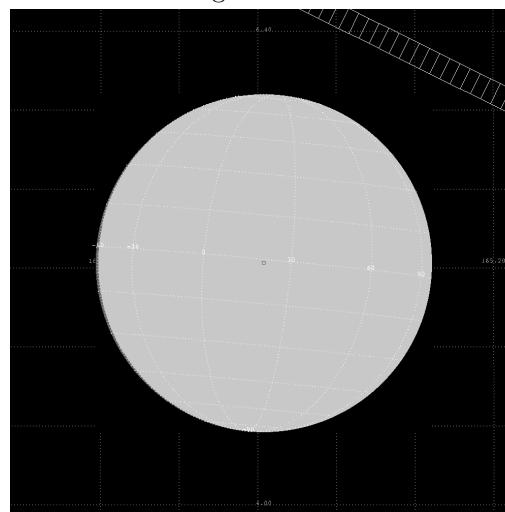


Figure 594: Frame 72

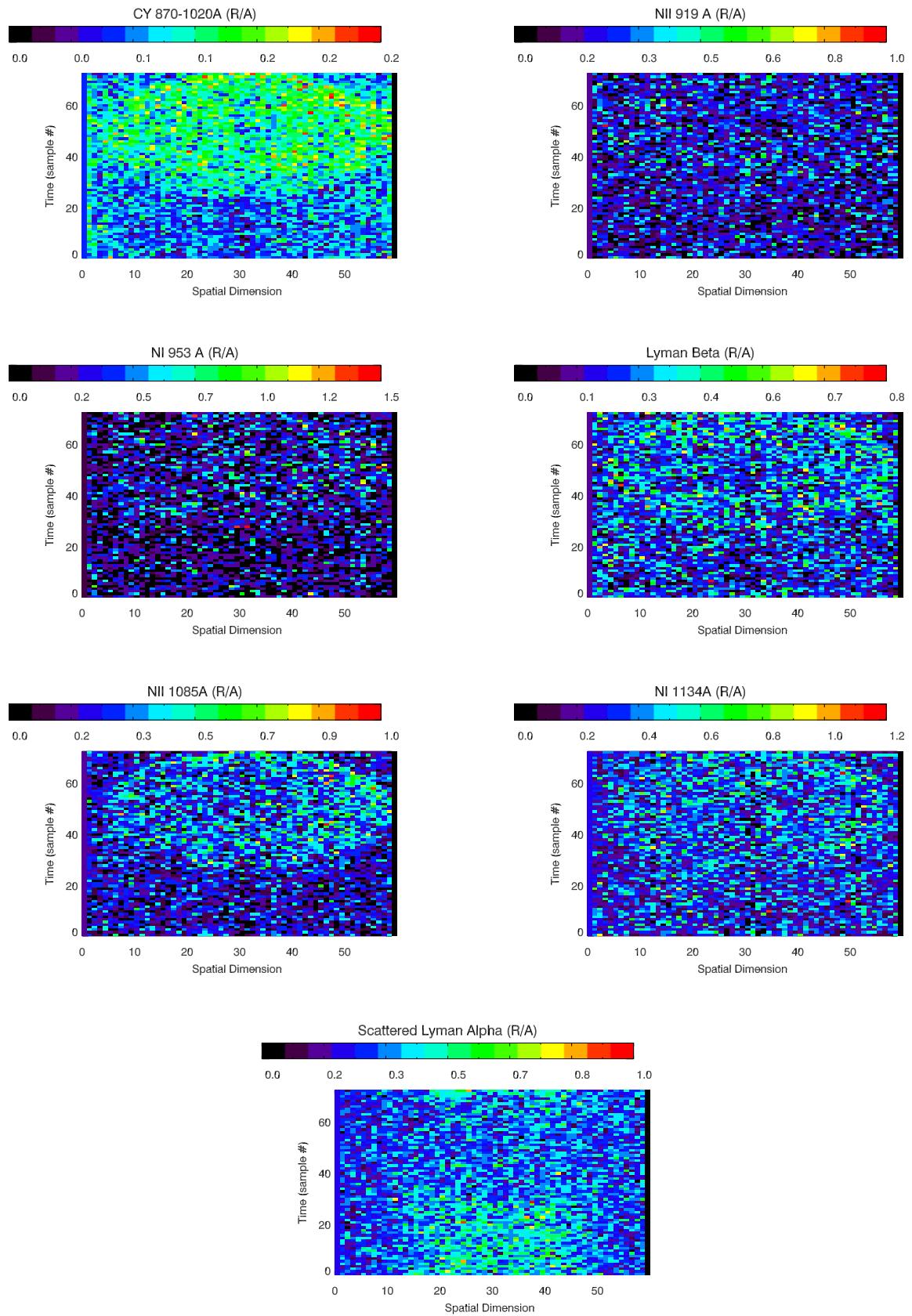


Figure 595: Panel of 7 detector images

FUV2009_285_11_41_05_UVIS_119TI_EUVFUV002_PRIME

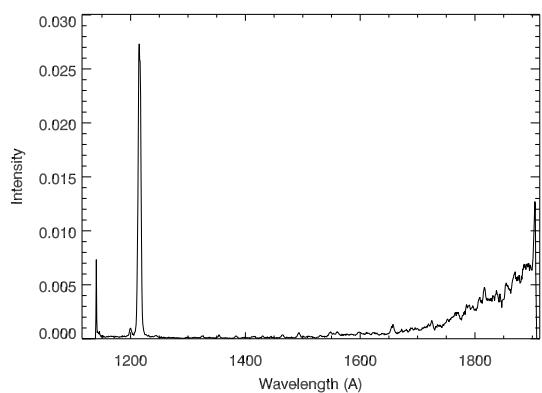


Figure 596: Spectra

body phase angle (deg): 11.1
distance (km): 116848.
Lon sub-s/c (180E): 336.9
Lat sub-s/c: -2.0
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 597: Geometry data

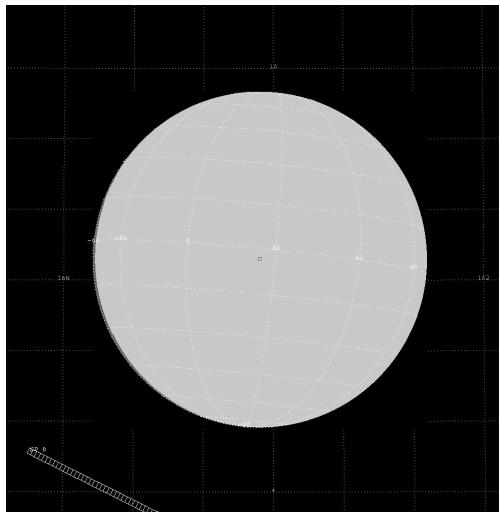


Figure 598: Frame 0

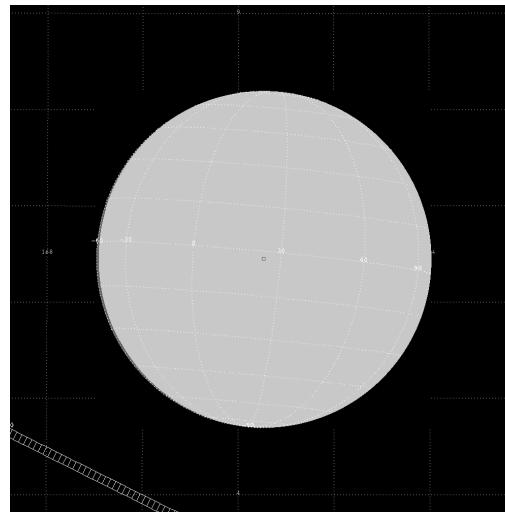


Figure 599: Frame 15

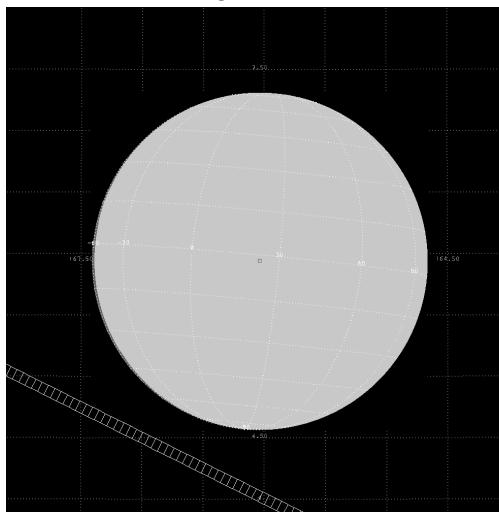


Figure 600: Frame 30

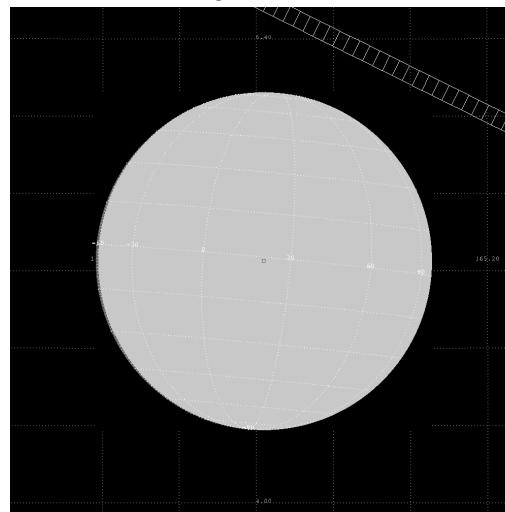


Figure 601: Frame 70

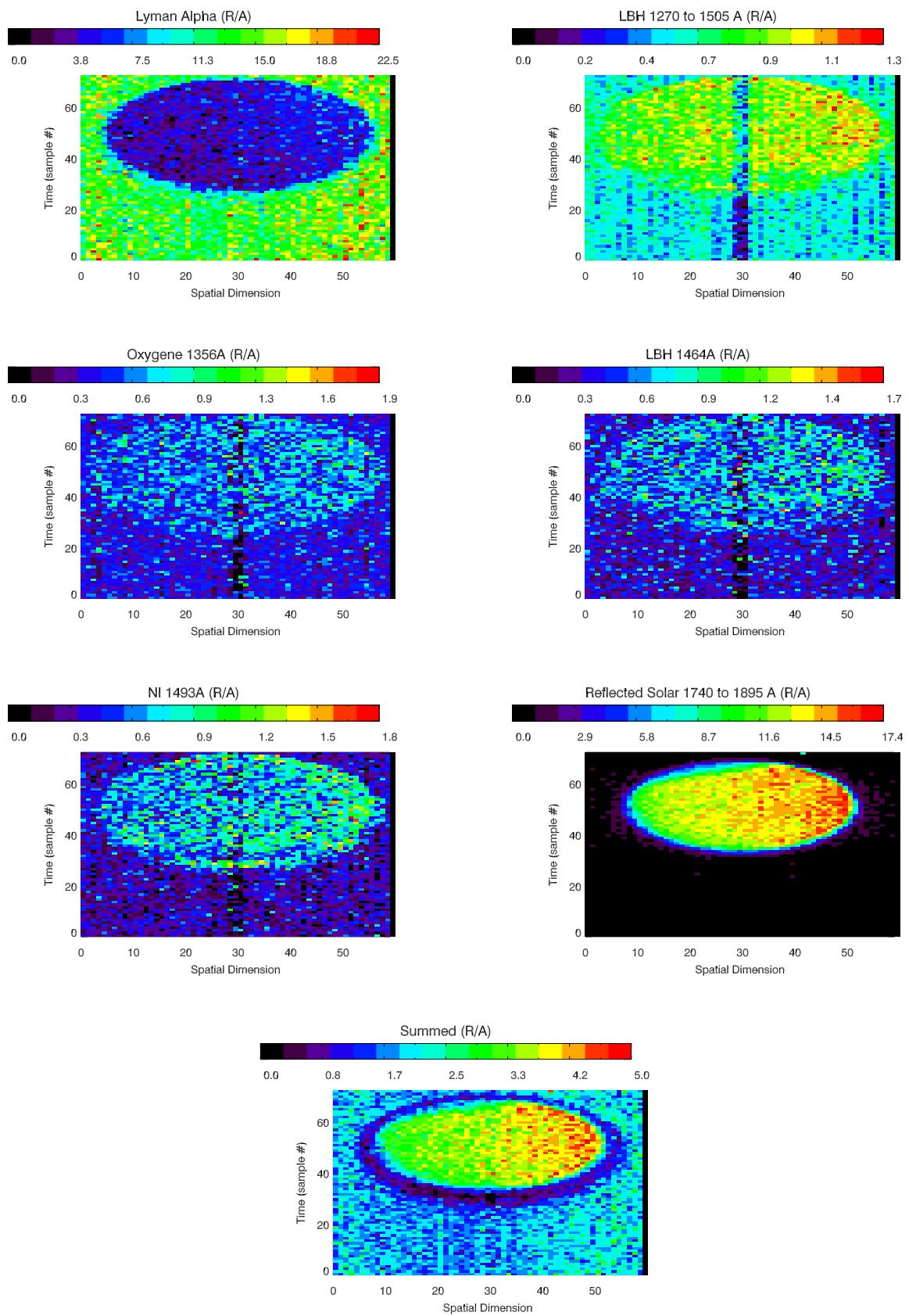


Figure 602: Panel of 7 detector images

Year 2010

Brief descriptif of observations:

- Day 28: Satellite in the background. Dayglow
- Day 29: Dayglow, no nightglow
- Day 156: Dayglow, no nightglow
- Day 267: Dayglow, no nightglow

EUV2010_028_13_34_25_UVIS_125TI_EUVFUV001_PRIME

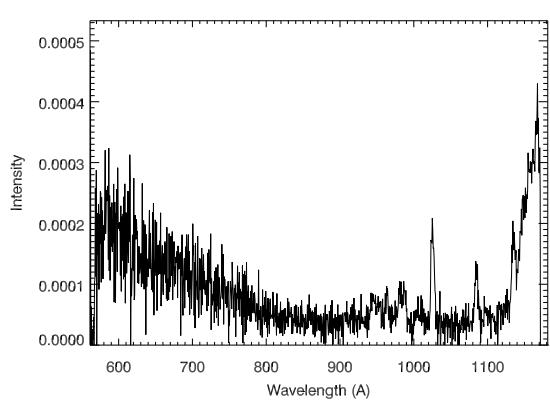


Figure 603: Spectra

body phase angle (deg): 133.4
distance (km): 116162.
Lon sub-s/c (180E): 16.9
Lat sub-s/c: -1.9
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 604: Geometry data

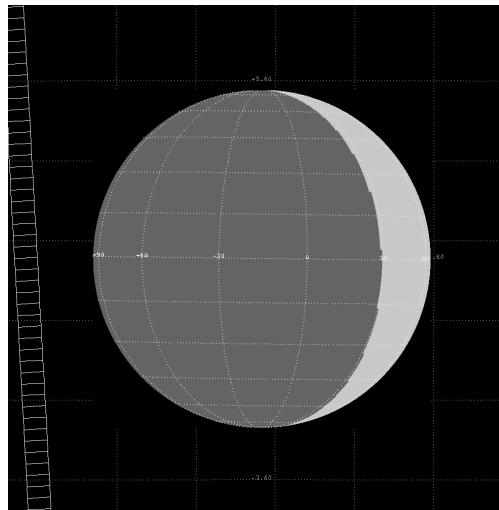


Figure 605: Frame 4

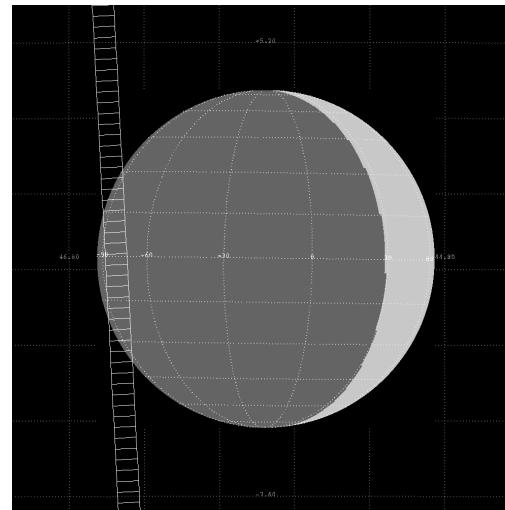


Figure 606: Frame 10

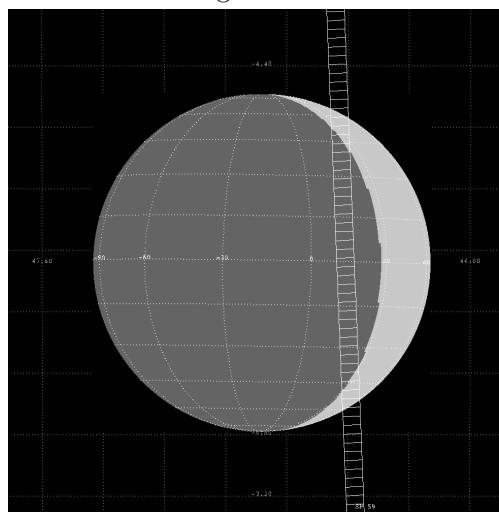


Figure 607: Frame 30

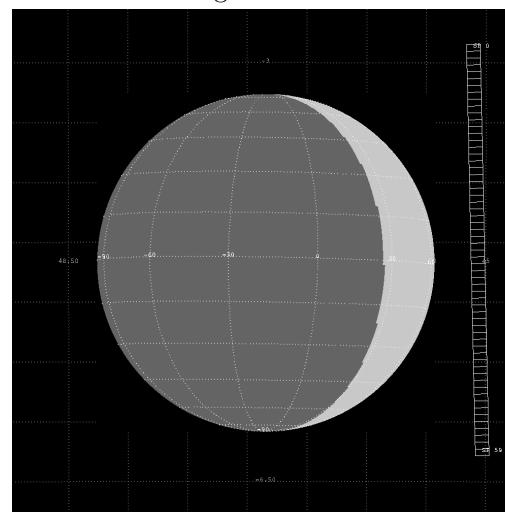


Figure 608: Frame 50

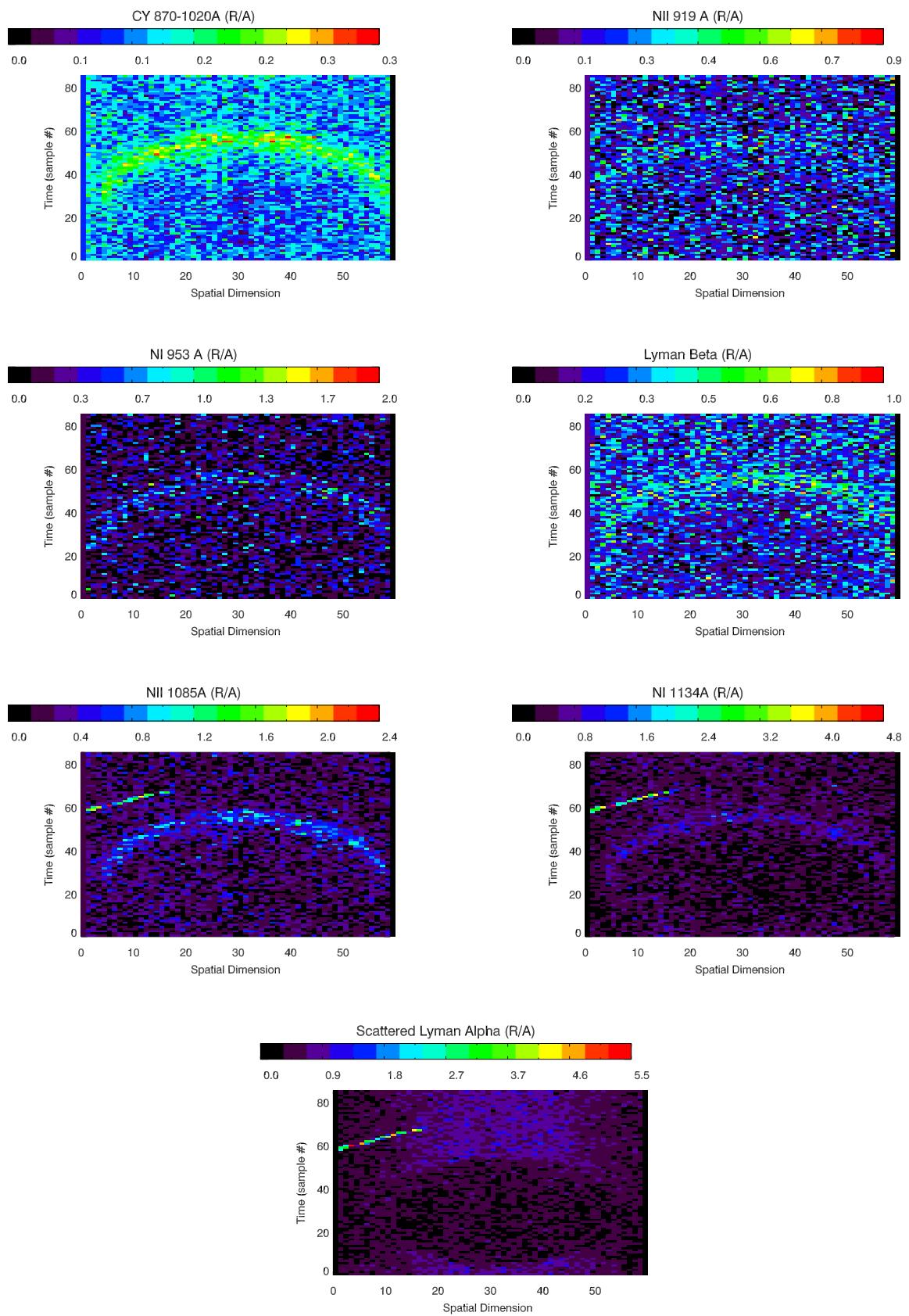


Figure 609: Panel of 7 detector images

FUV2010_028_13_34_25_UVIS_125TI_EUVFUV001_PRIME

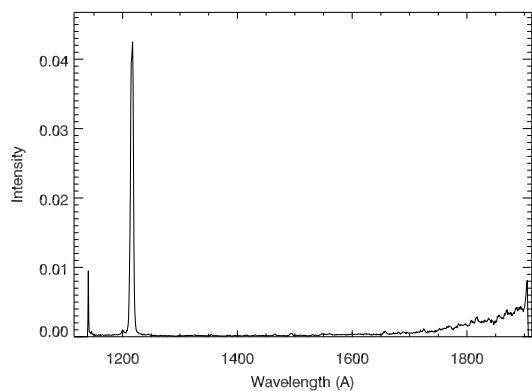


Figure 610: Spectra

body phase angle (deg): 133.4
distance (km): 116162.
Lon sub-s/c (180E): 16.9
Lat sub-s/c: -1.9
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 611: Geometry data

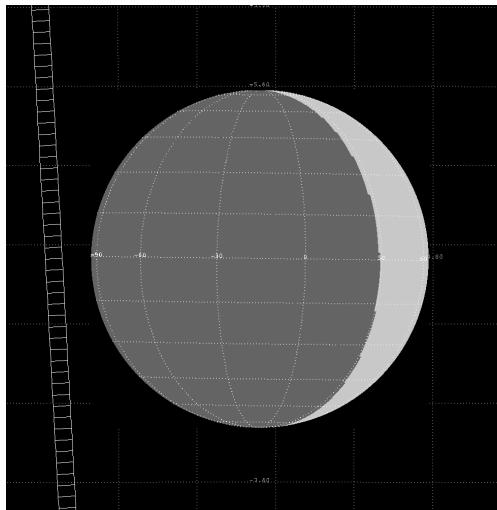


Figure 612: Frame 5

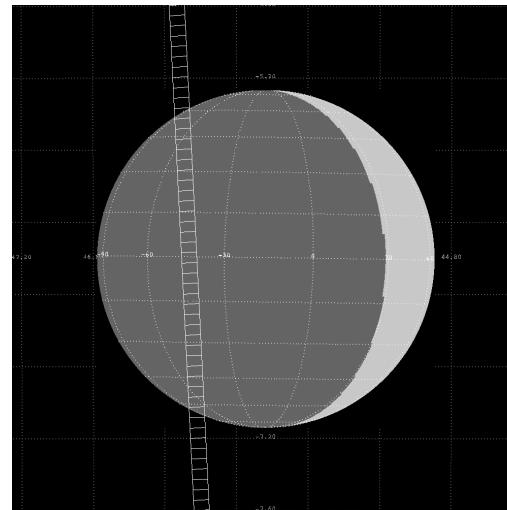


Figure 613: Frame 15

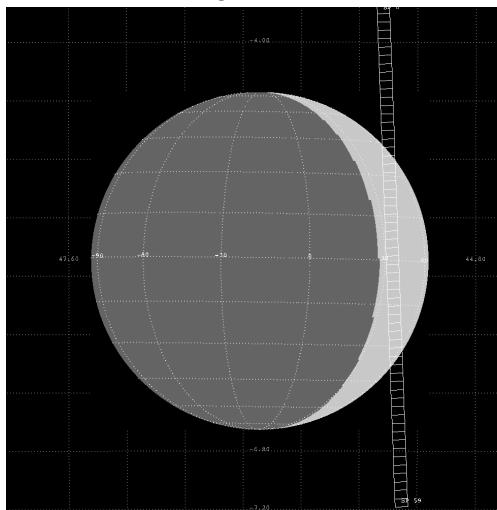


Figure 614: Frame 35

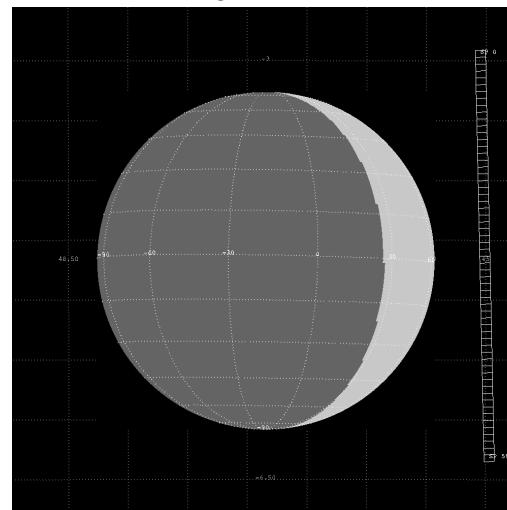


Figure 615: Frame 50

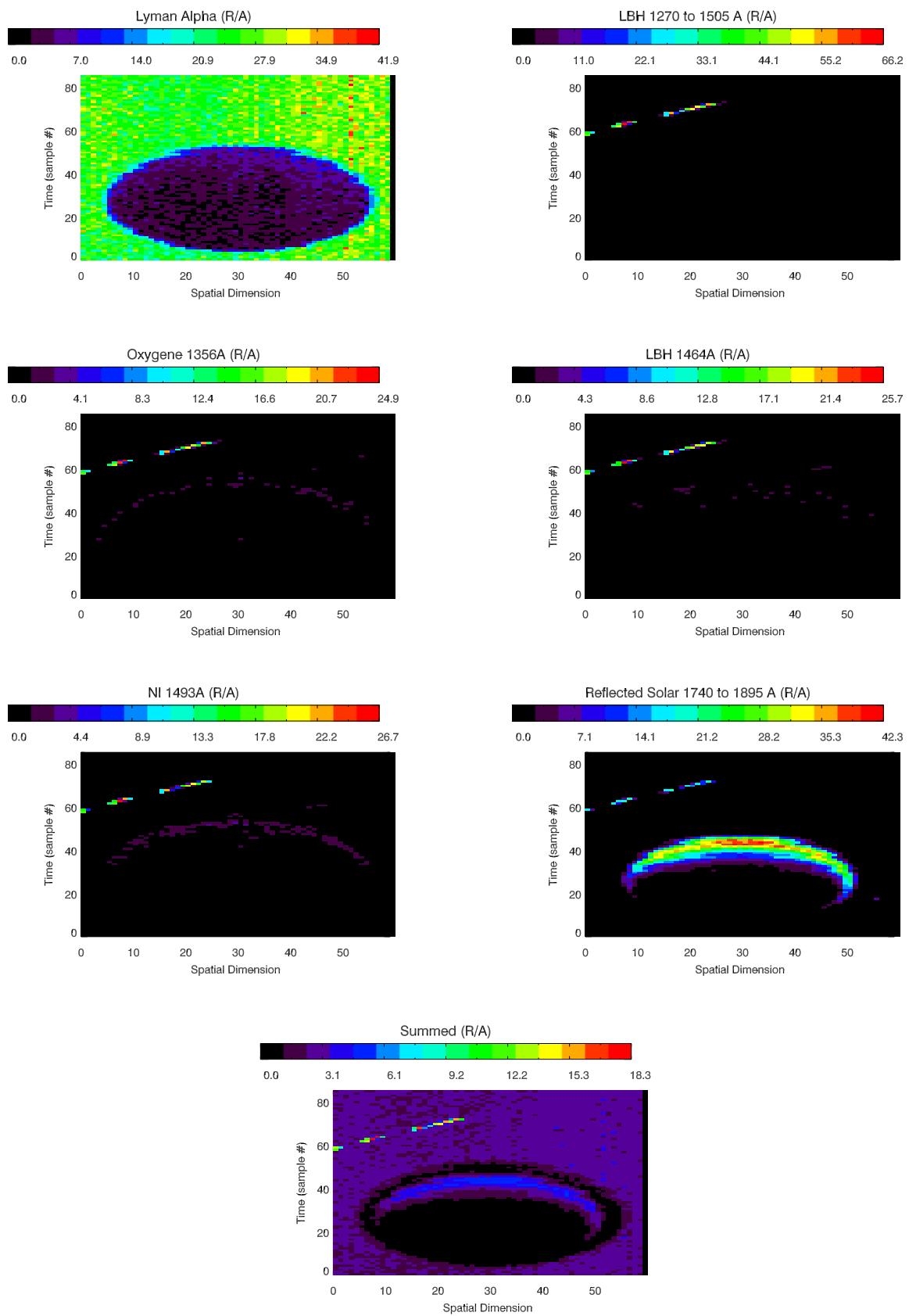


Figure 616: Panel of 7 detector images

EUV2010_029_00_35_34_UVIS_125TI_EUVFUV003_PRIME

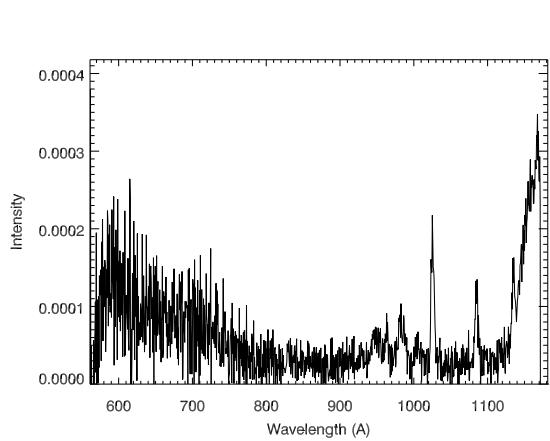


Figure 617: Spectra

body phase angle (deg): 42.1
distance (km): 110026.
Lon sub-s/c (180E): 212.8
Lat sub-s/c: -5.1
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 618: Geometry data

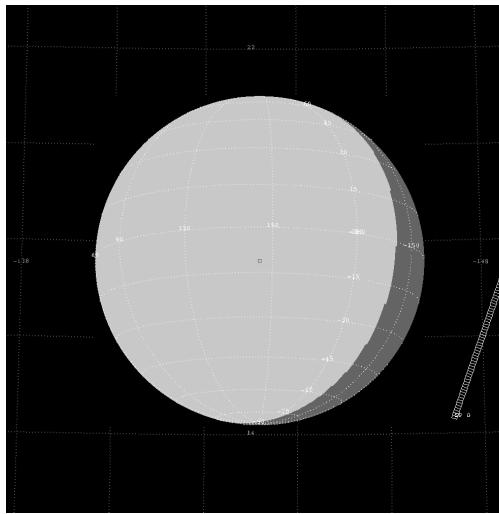


Figure 619: Frame 0

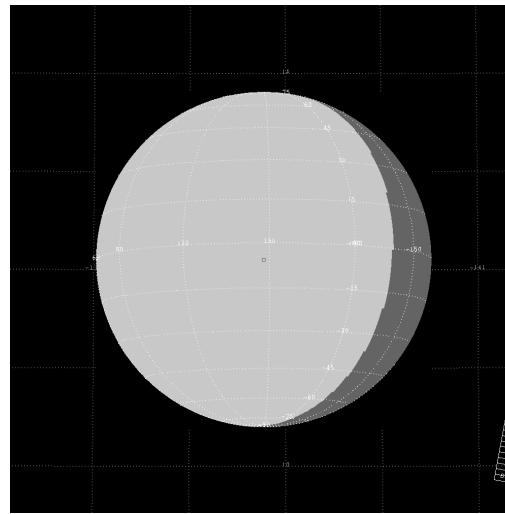


Figure 620: Frame 30

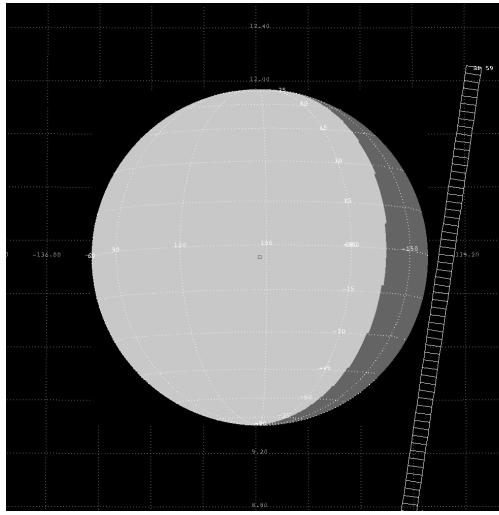


Figure 621: Frame 50

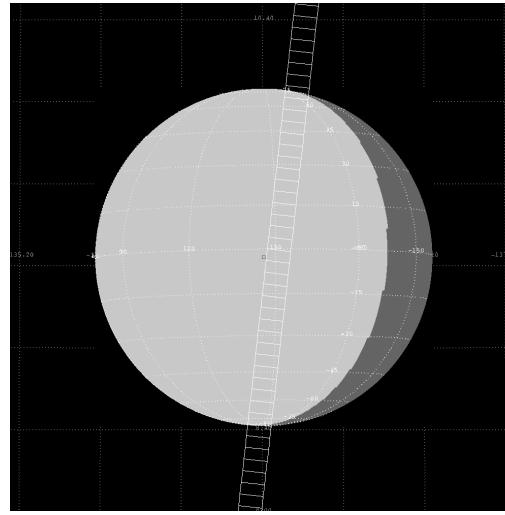


Figure 622: Frame 91

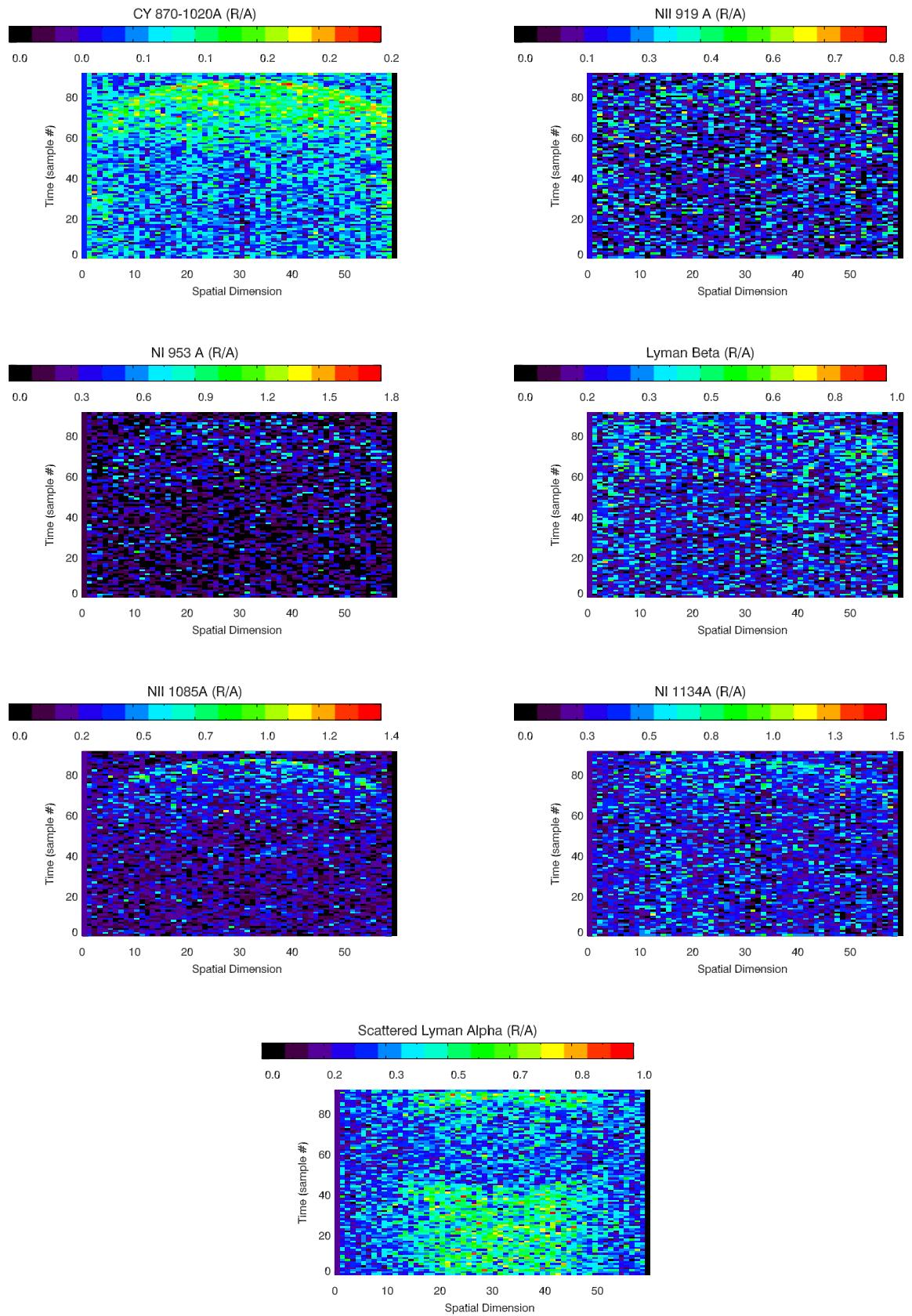


Figure 623: Panel of 7 detector images

FUV2010_029_00_35_34_UVIS_125TI_EUVFUV003_PRIME

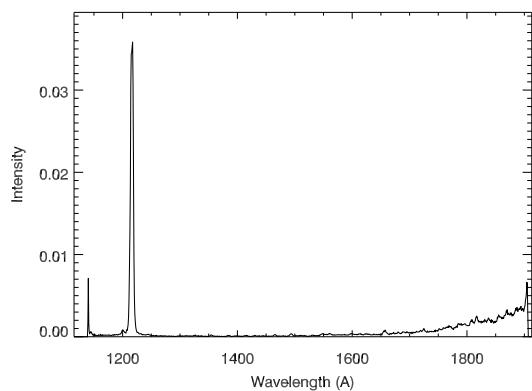


Figure 624: Spectra

body phase angle (deg): 42.1
distance (km): 110026.
Lon sub-s/c (180E): 212.8
Lat sub-s/c: -5.1
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 625: Geometry data

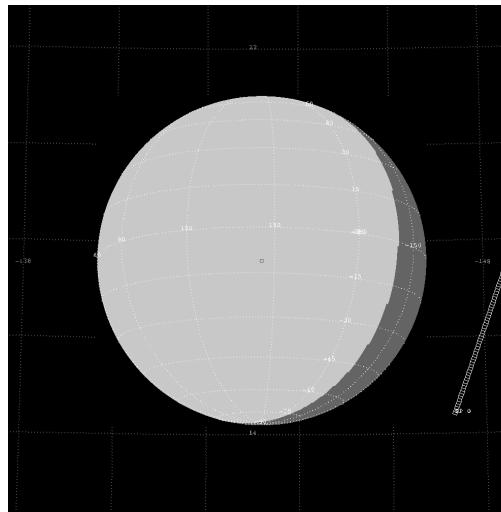


Figure 626: Frame 0

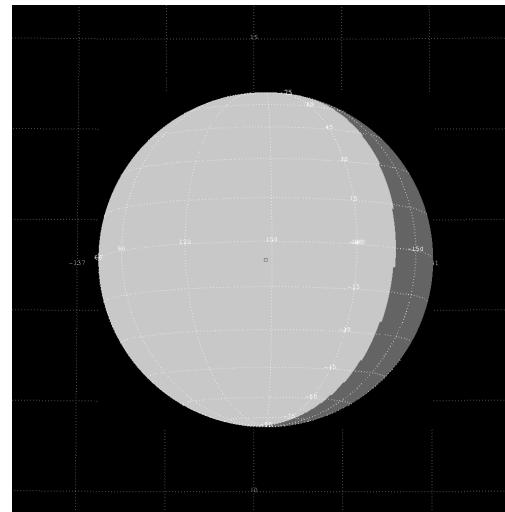


Figure 627: Frame 25

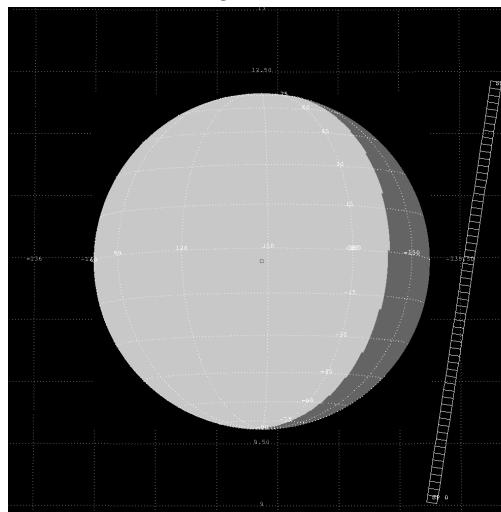


Figure 628: Frame 45

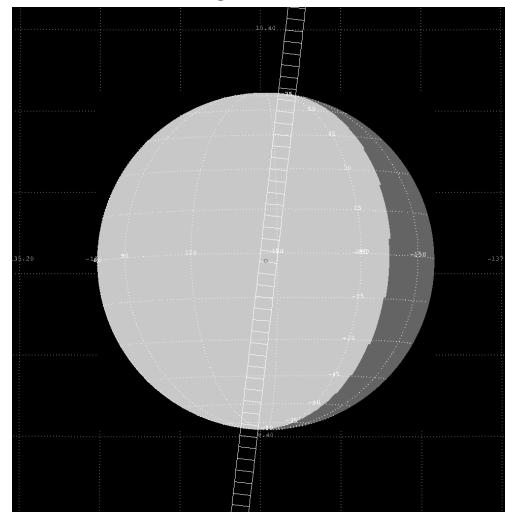


Figure 629: Frame 90

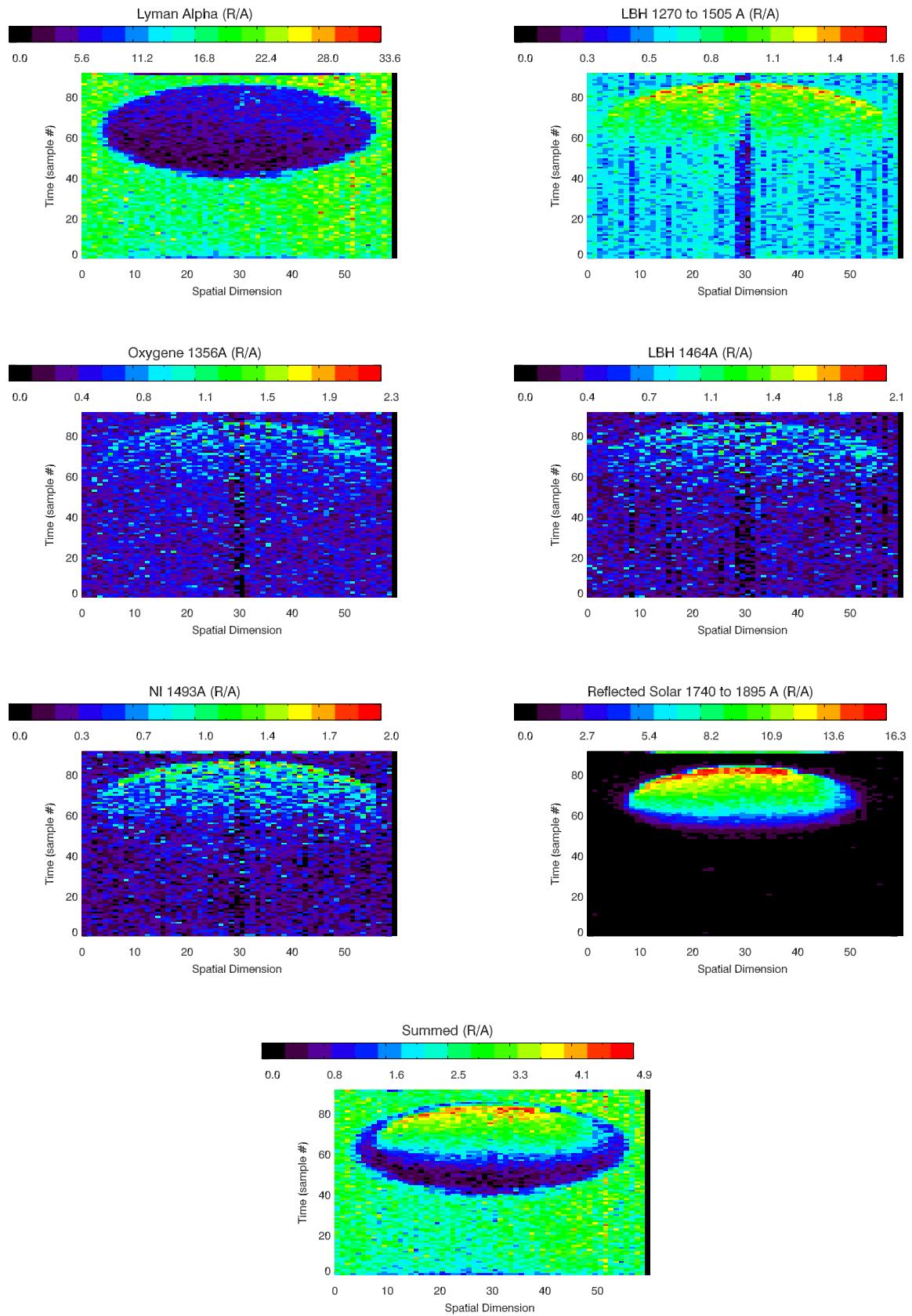


Figure 630: Panel of 7 detector images

EUV2010_156_04_34_01_UVIS_132TI_EUVFUV001_PRIME

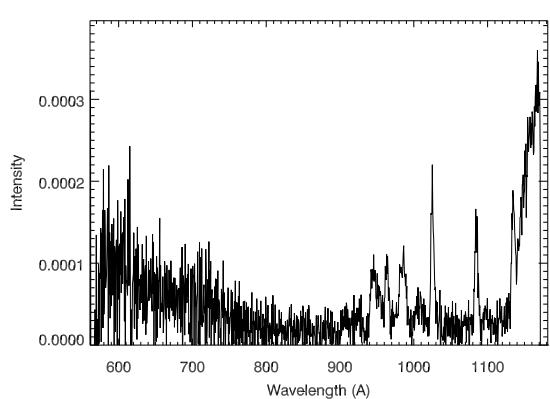


Figure 631: Spectra

body phase angle (deg): 30.5
distance (km): 109779.
Lon sub-s/c (180E): 210.9
Lat sub-s/c: 2.3
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 238

Figure 632: Geometry data

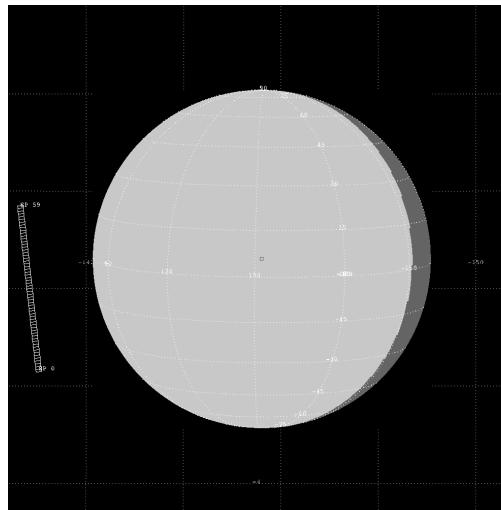


Figure 633: Frame 0

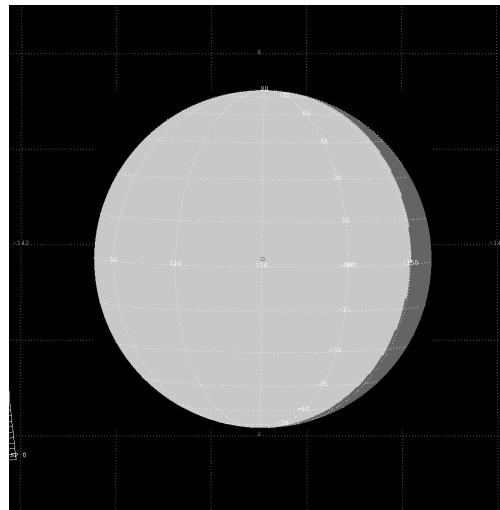


Figure 634: Frame 30

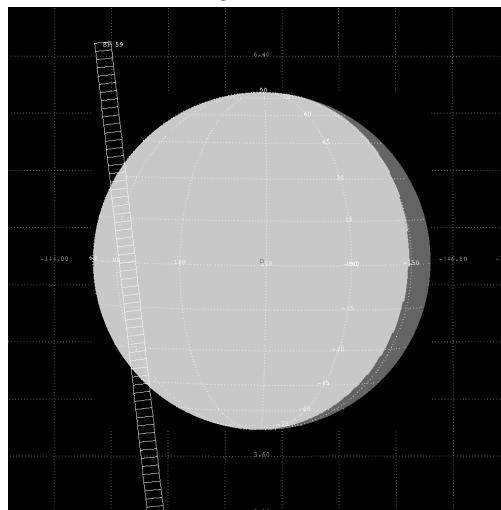


Figure 635: Frame 60

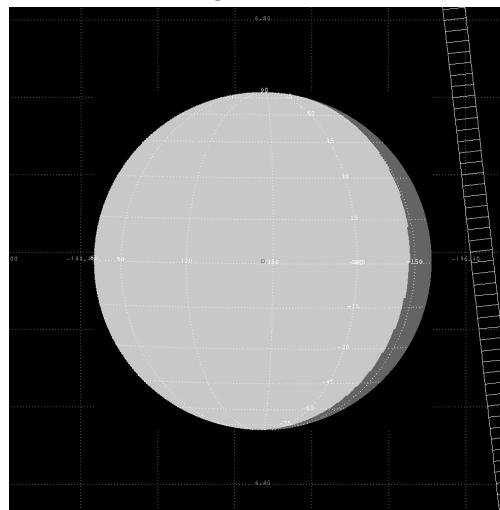


Figure 636: Frame 92

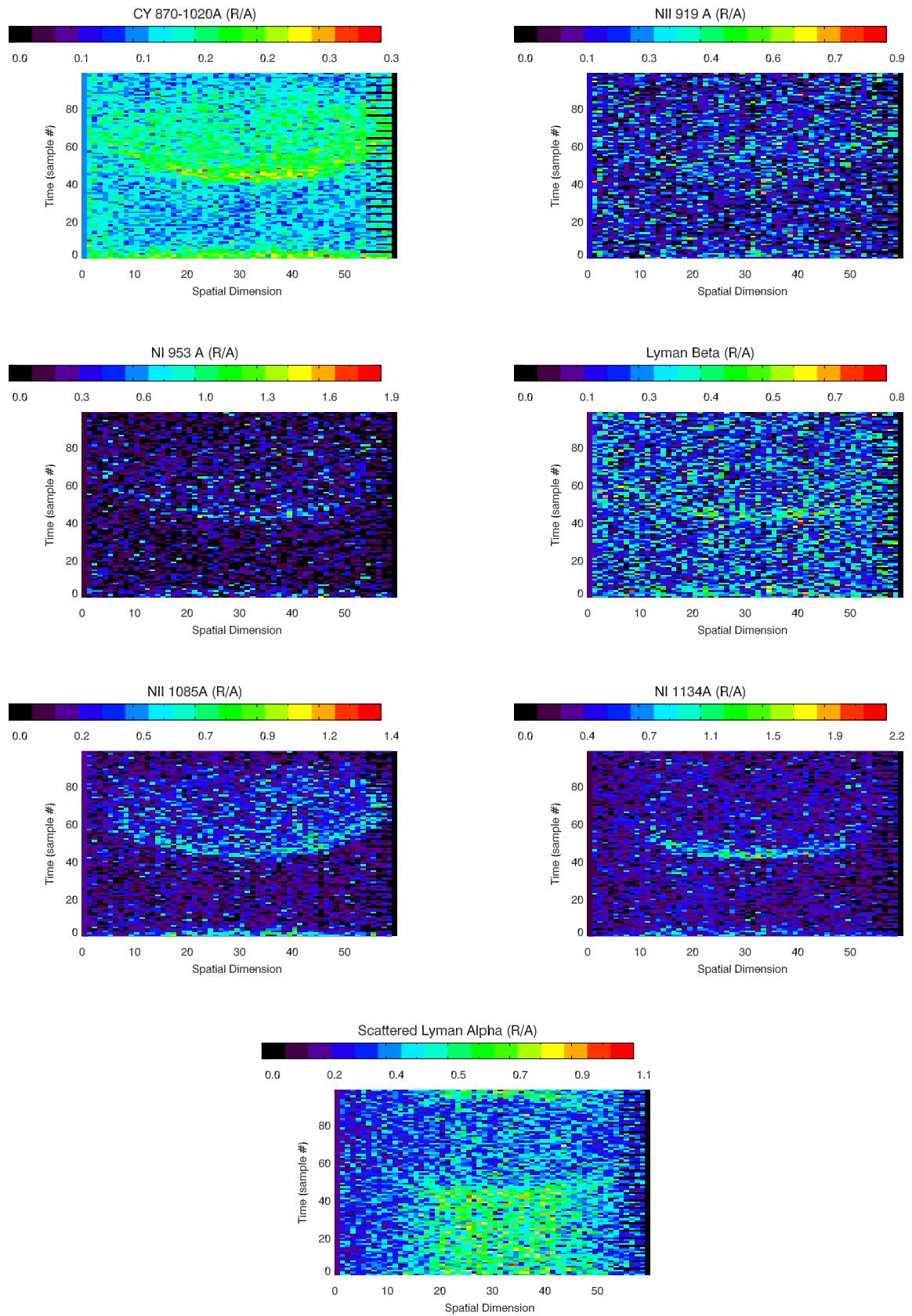


Figure 637: Panel of 7 detector images

FUV2010_156_04_34_01_UVIS_132TI_EUVFUV001_PRIME

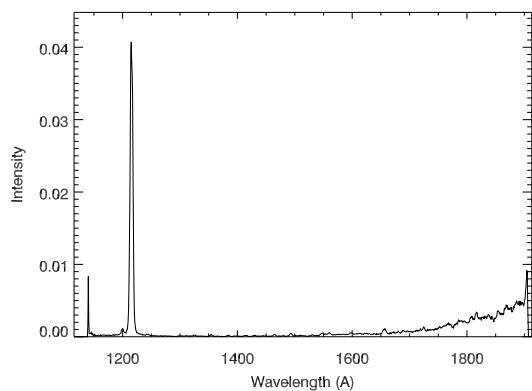


Figure 638: Spectra

body phase angle (deg): 30.5
distance (km): 109779.
Lon sub-s/c (180E): 210.9
Lat sub-s/c: 2.3
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 238

Figure 639: Geometry data

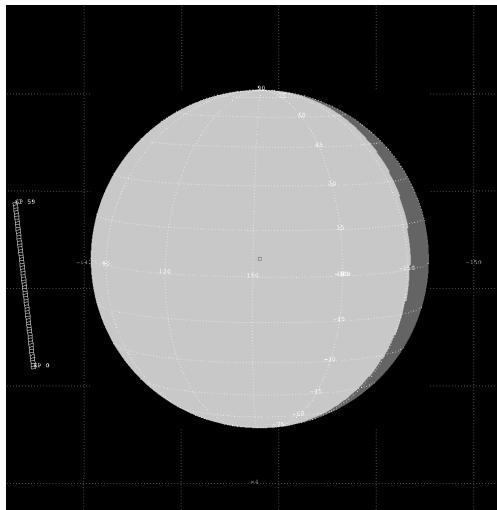


Figure 640: Frame 0

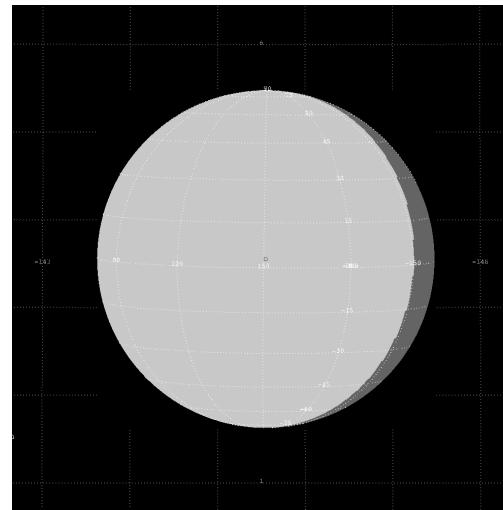


Figure 641: Frame 25

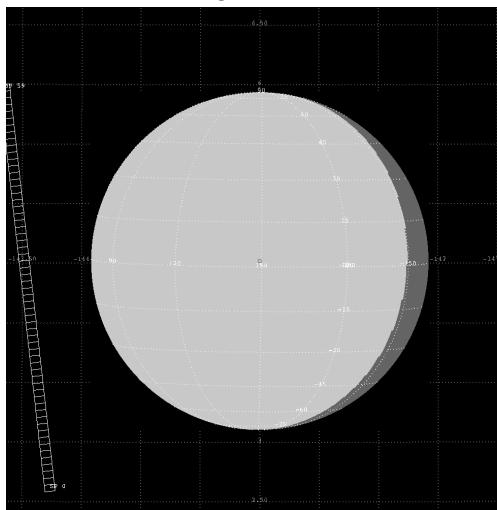


Figure 642: Frame 45

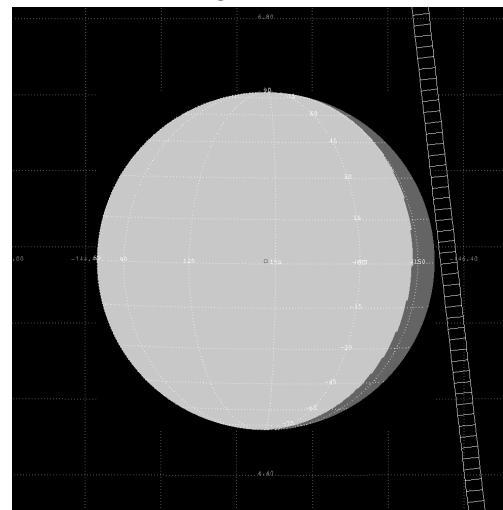


Figure 643: Frame 90

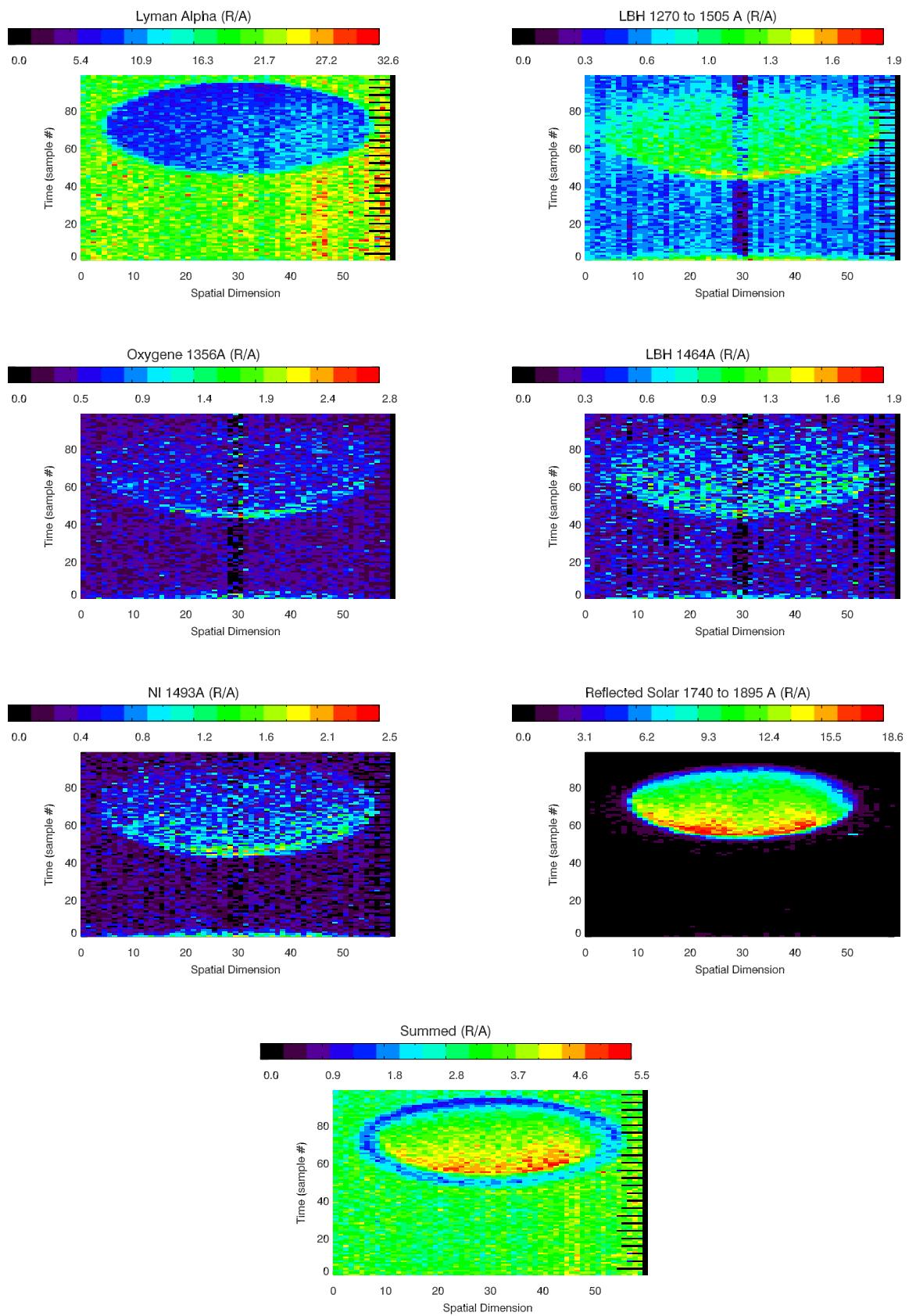


Figure 644: Panel of 7 detector images

EUV2010_267_21_07_47_UVIS_138TI_EUVFUV001_PRIME

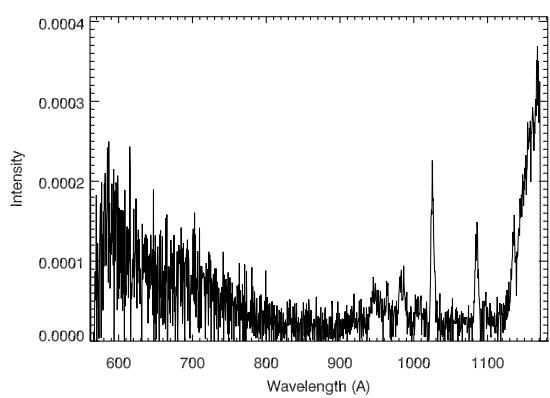


Figure 645: Spectra

body phase angle (deg): 31.2
distance (km): 113400.
Lon sub-s/c (180E): 209.6
Lat sub-s/c: -3.5
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 646: Geometry data

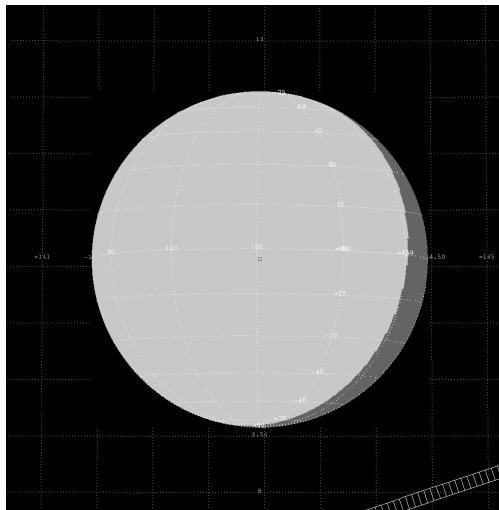


Figure 647: Frame 30

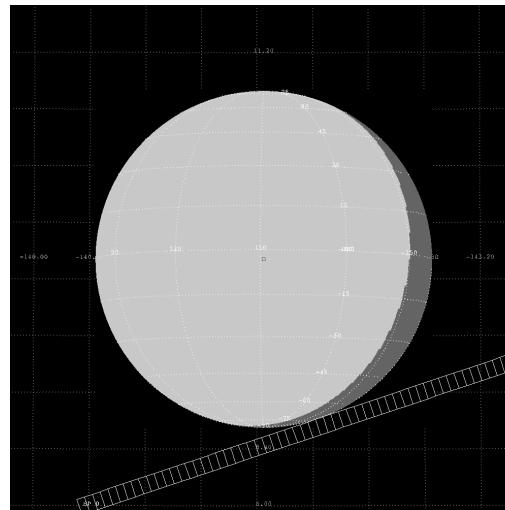


Figure 648: Frame 45

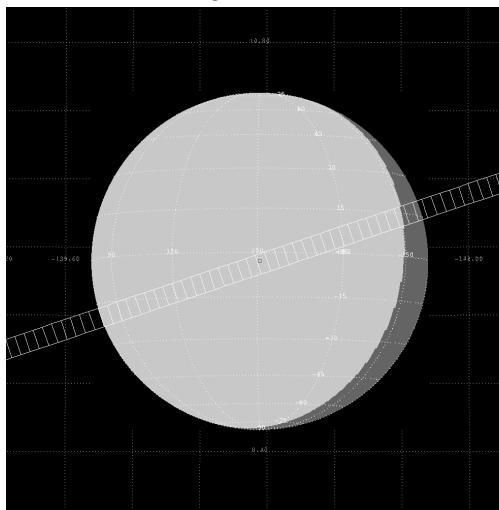


Figure 649: Frame 60

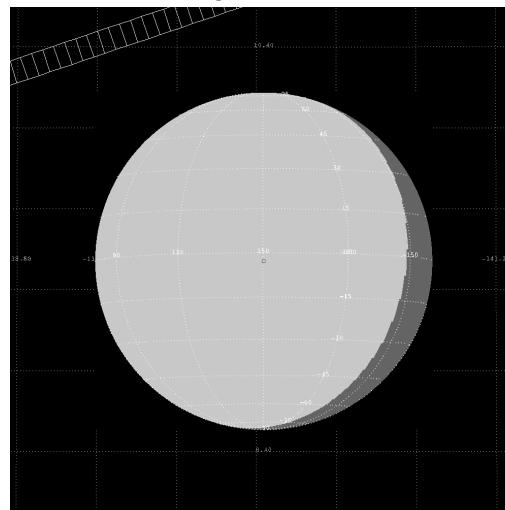


Figure 650: Frame 77

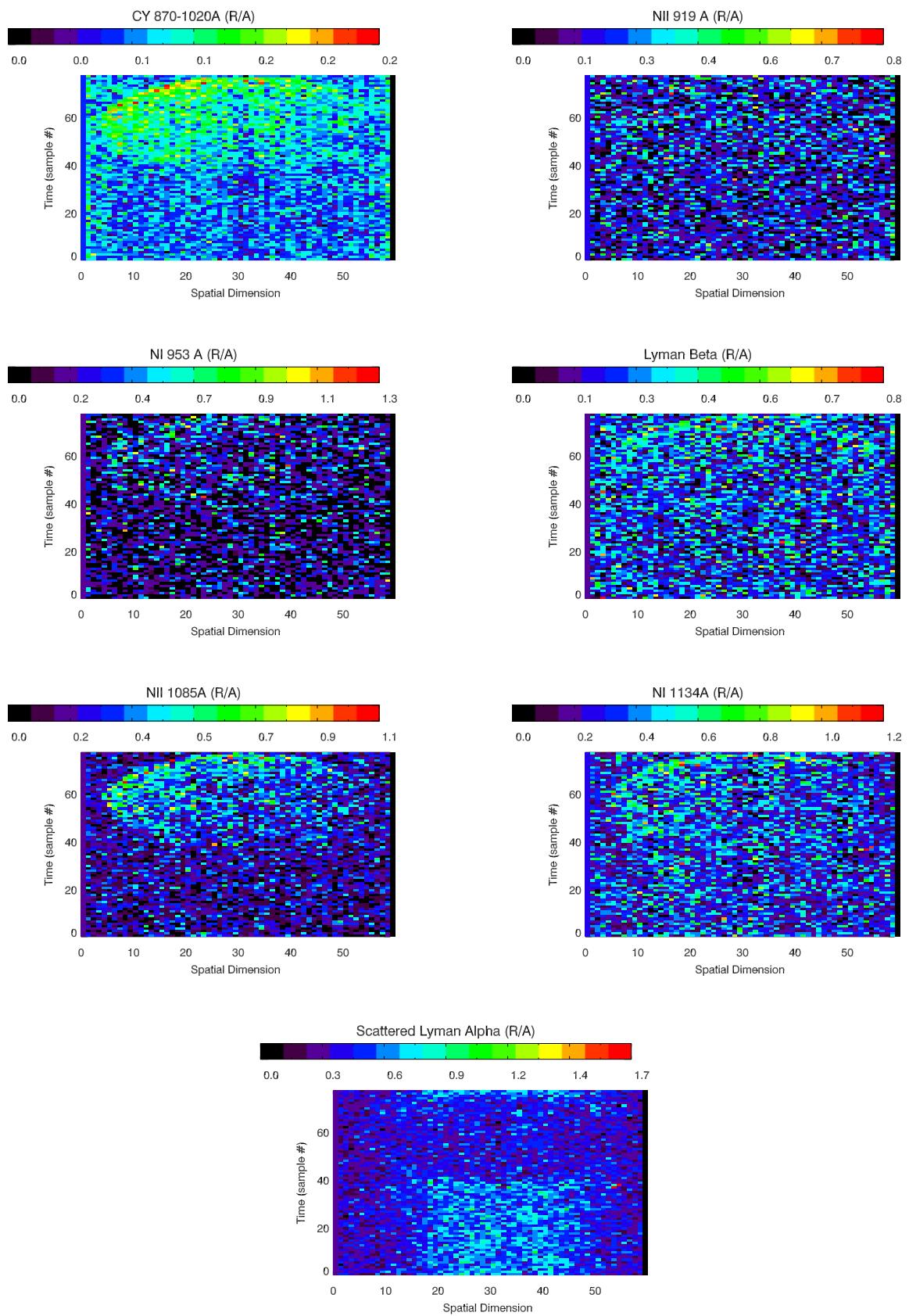


Figure 651: Panel of 7 detector images

FUV2010_267_21_07_47_UVIS_138TI_EUVFUV001_PRIME

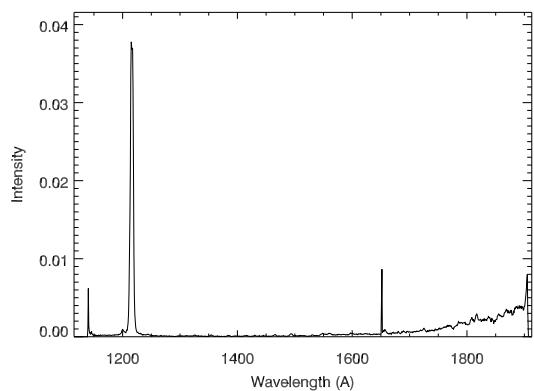


Figure 652: Spectra

body phase angle (deg): 31.2
distance (km): 113400.
Lon sub-s/c (180E): 209.6
Lat sub-s/c: -3.5
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 653: Geometry data

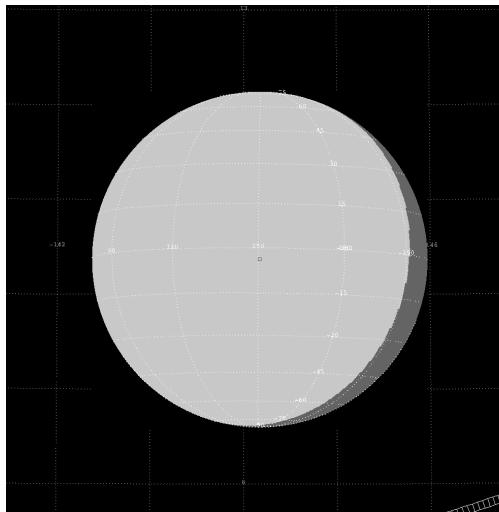


Figure 654: Frame 20

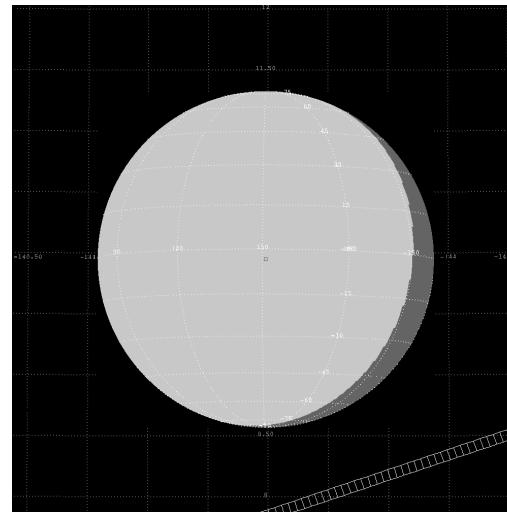


Figure 655: Frame 35

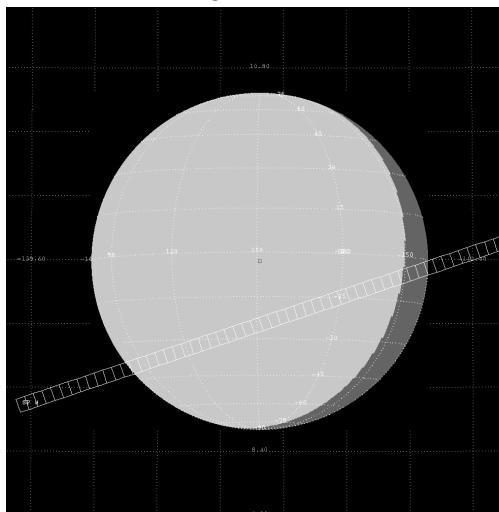


Figure 656: Frame 55

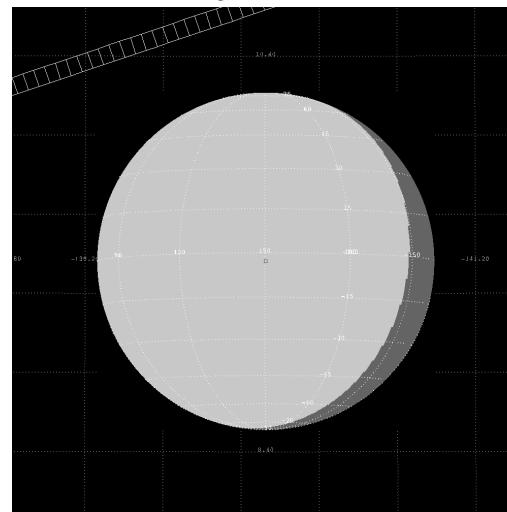


Figure 657: Frame 75

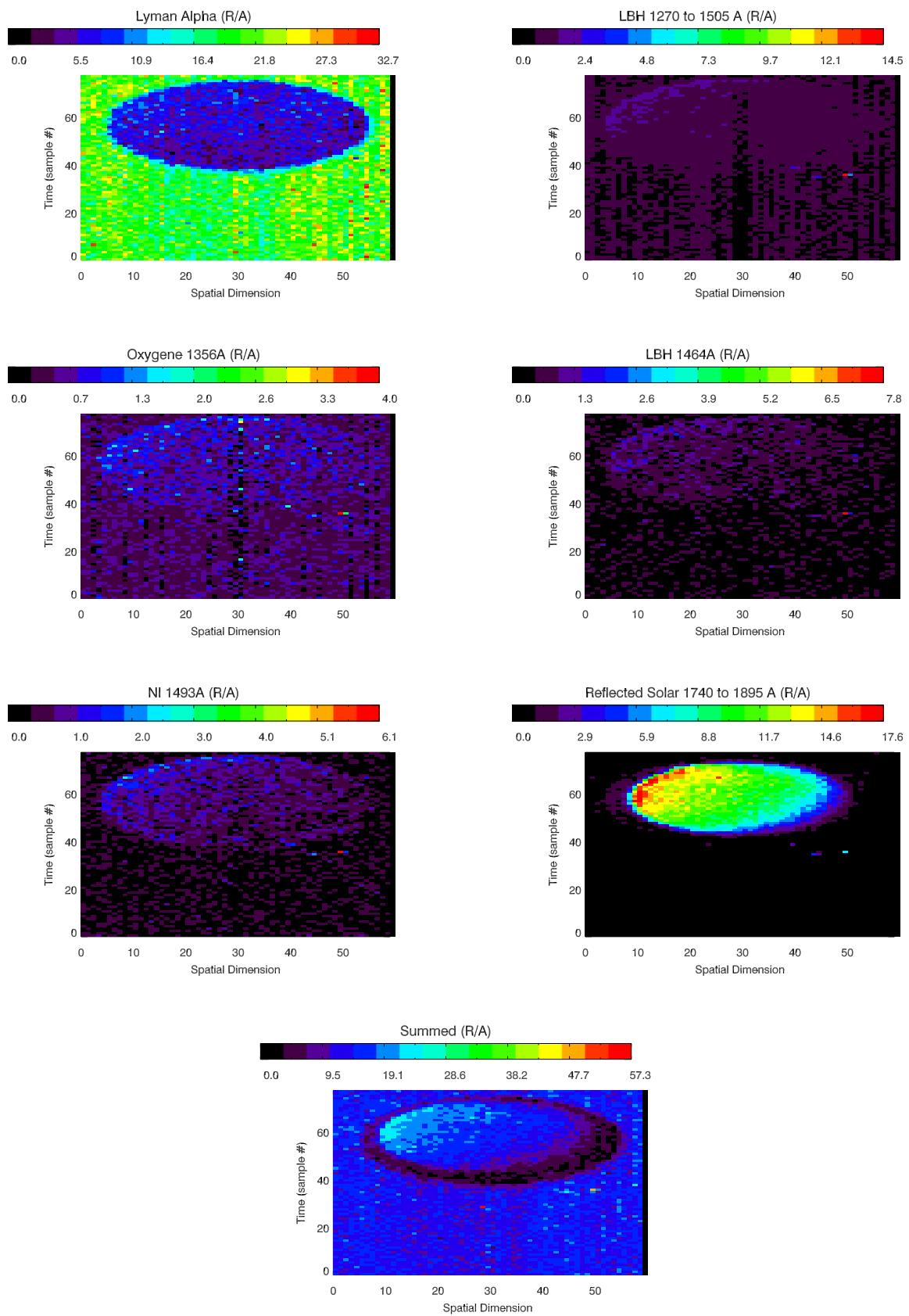


Figure 658: Panel of 7 detector images

Year 2011

Brief descriptif of observations:

- Day 109: Low phase angle (20 deg), dayglow, brightness over the disk
- Day 129: Dayglow, no nightglow
- Day 171: (June 20, 2011 – T77) high phase angle (162 deg), nightglow with solar contribution. Bright object seen deep in the atmosphere (the slit was not on the disk) in the FUV, but not in the EUV!!! the object does not appear in Lyman alpha. Is this something inside Titan's atmosphere, like a cloud, lightning or something? (Precipitation-induced surface brightening seen on Titan by Cassini VIMS and ISS, Jason W Barnes)

EUV2011_109_07_44_36_UVIS_147TI_EUVFUV001_PRIME

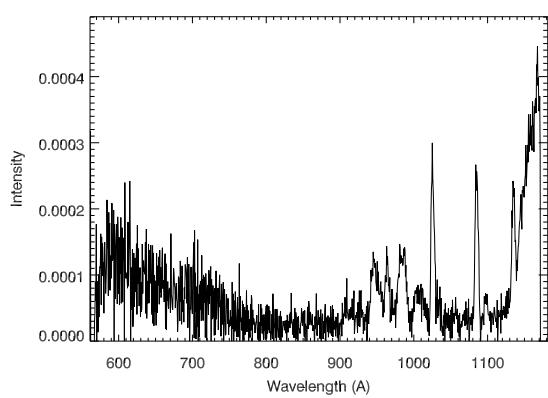


Figure 659: Spectra

body phase angle (deg): 19.7
distance (km): 113851.
Lon sub-s/c (180E): 196.3
Lat sub-s/c: 0.2
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 660: Geometry data

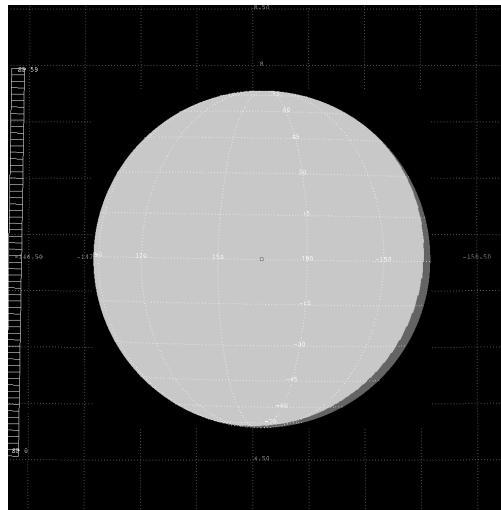


Figure 661: Frame 30

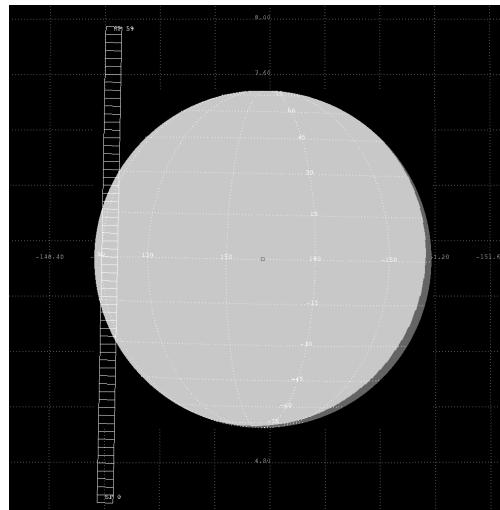


Figure 662: Frame 45

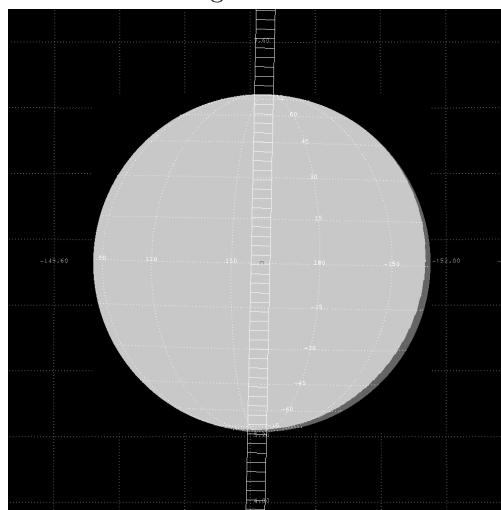


Figure 663: Frame 60

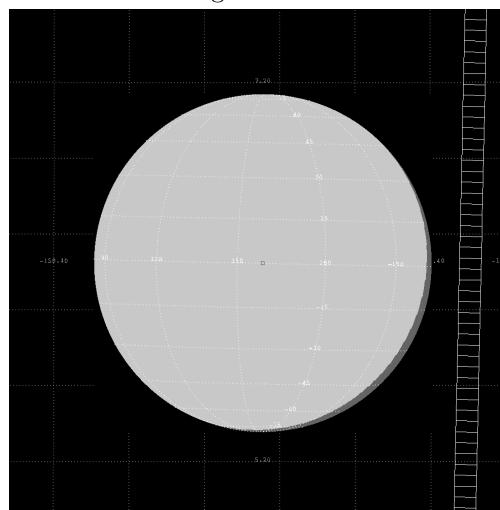


Figure 664: Frame 75

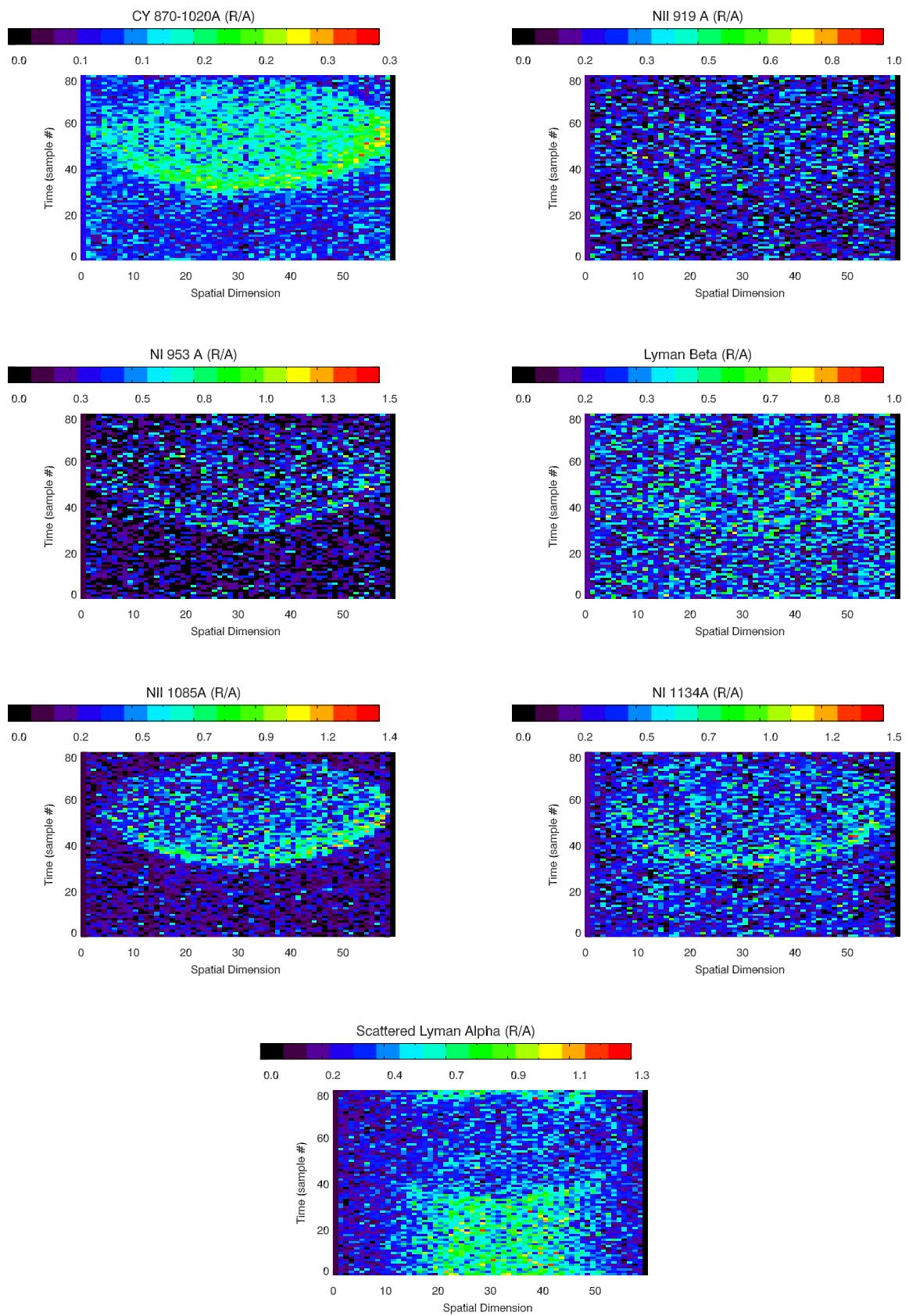


Figure 665: Panel of 7 detector images

FUV2011_109_07_44_36_UVIS_147TI_EUVFUV001_PRIME

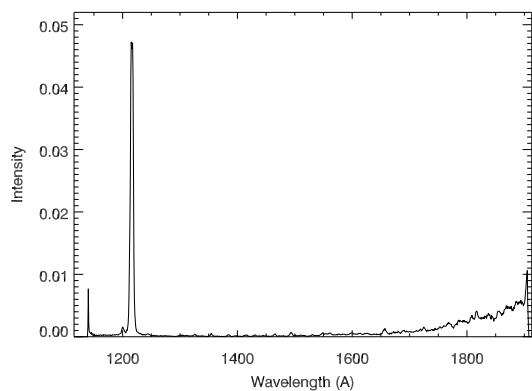


Figure 666: Spectra

body phase angle (deg): 19.7
distance (km): 113851.
Lon sub-s/c (180E): 196.3
Lat sub-s/c: 0.2
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 667: Geometry data

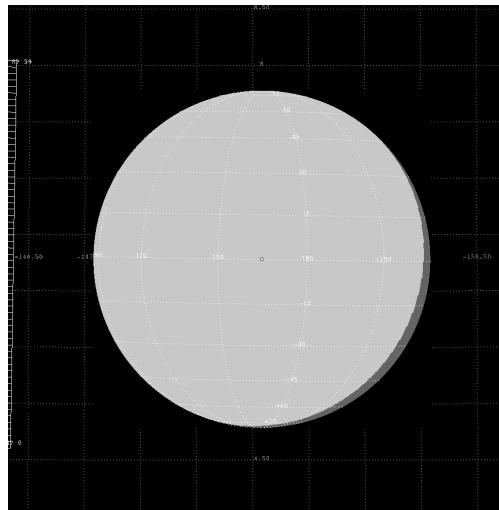


Figure 668: Frame 30

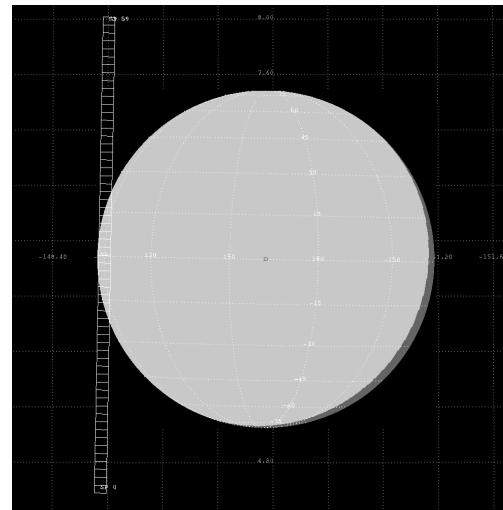


Figure 669: Frame 45

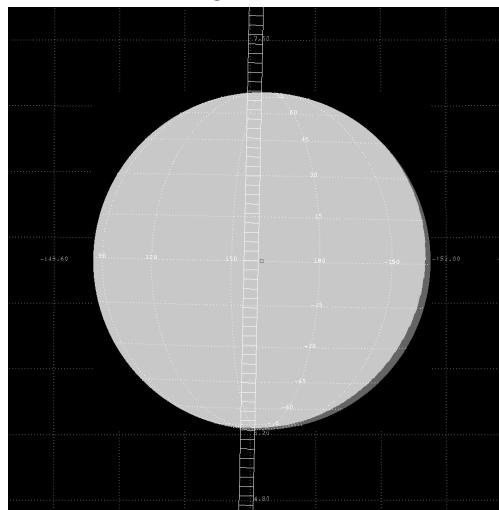


Figure 670: Frame 60

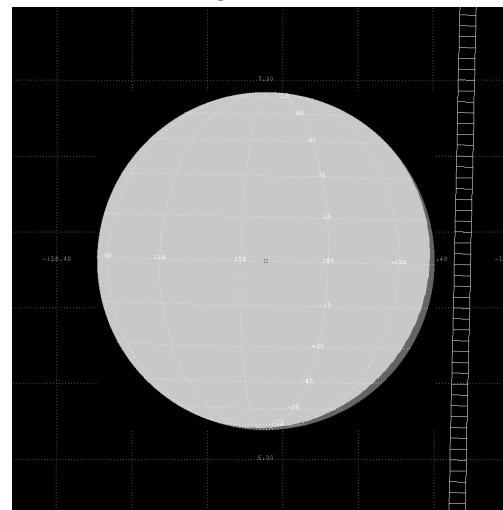


Figure 671: Frame 75

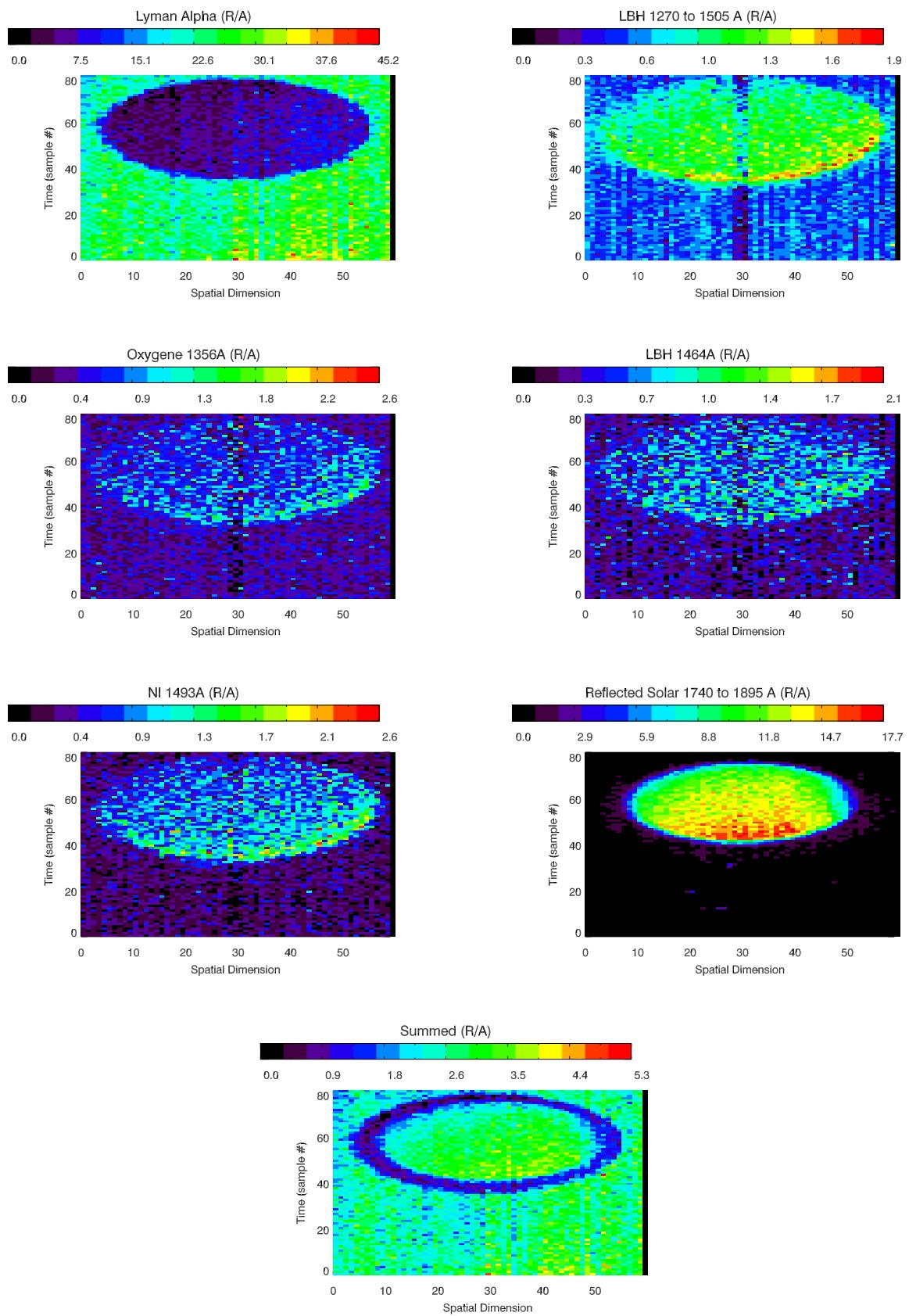


Figure 672: Panel of 7 detector images

EUV2011_129_02_07_40_UVIS_148TI_EUVFUV001_PRIME

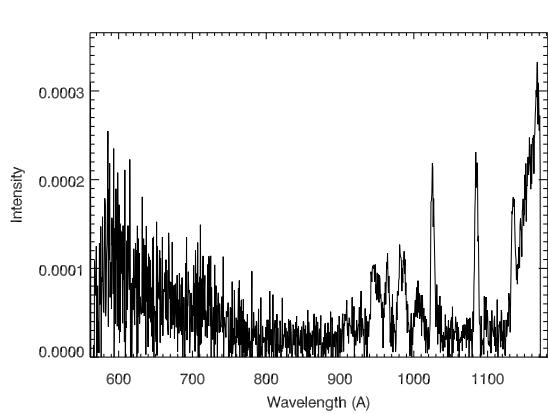


Figure 673: Spectra

body phase angle (deg): 46.0
distance (km): 119959.
Lon sub-s/c (180E): 344.4
Lat sub-s/c: -0.1
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 674: Geometry data

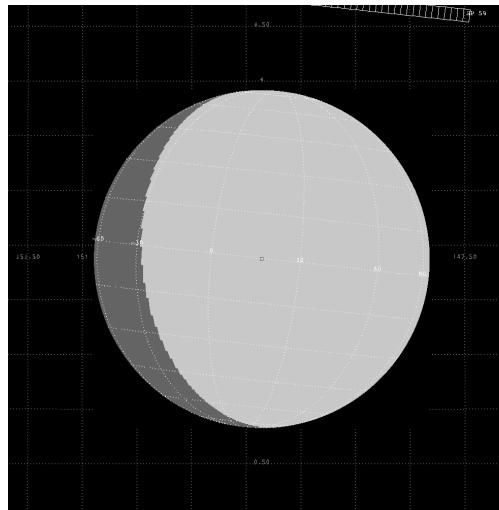


Figure 675: Frame 20

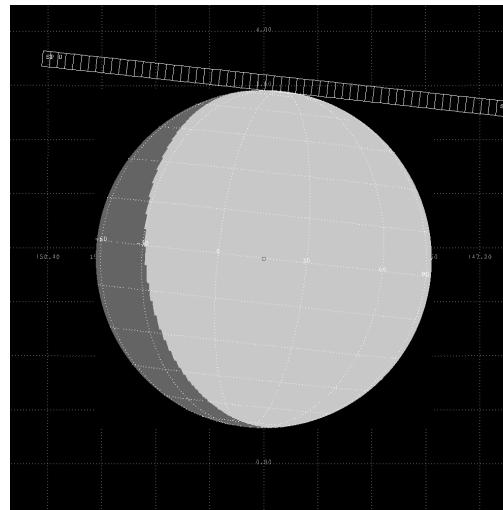


Figure 676: Frame 35

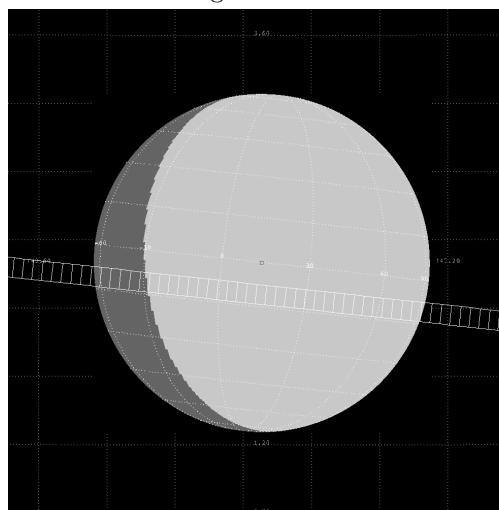


Figure 677: Frame 55

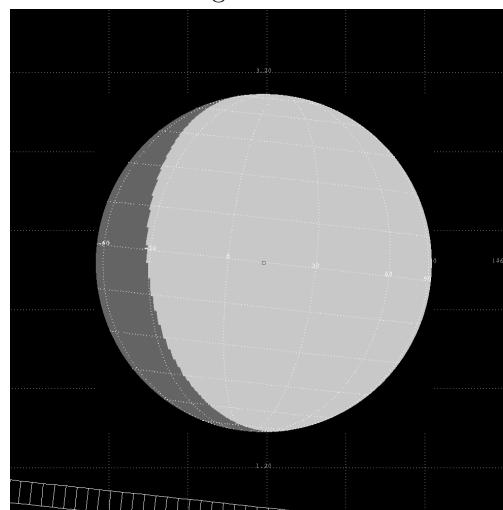


Figure 678: Frame 70

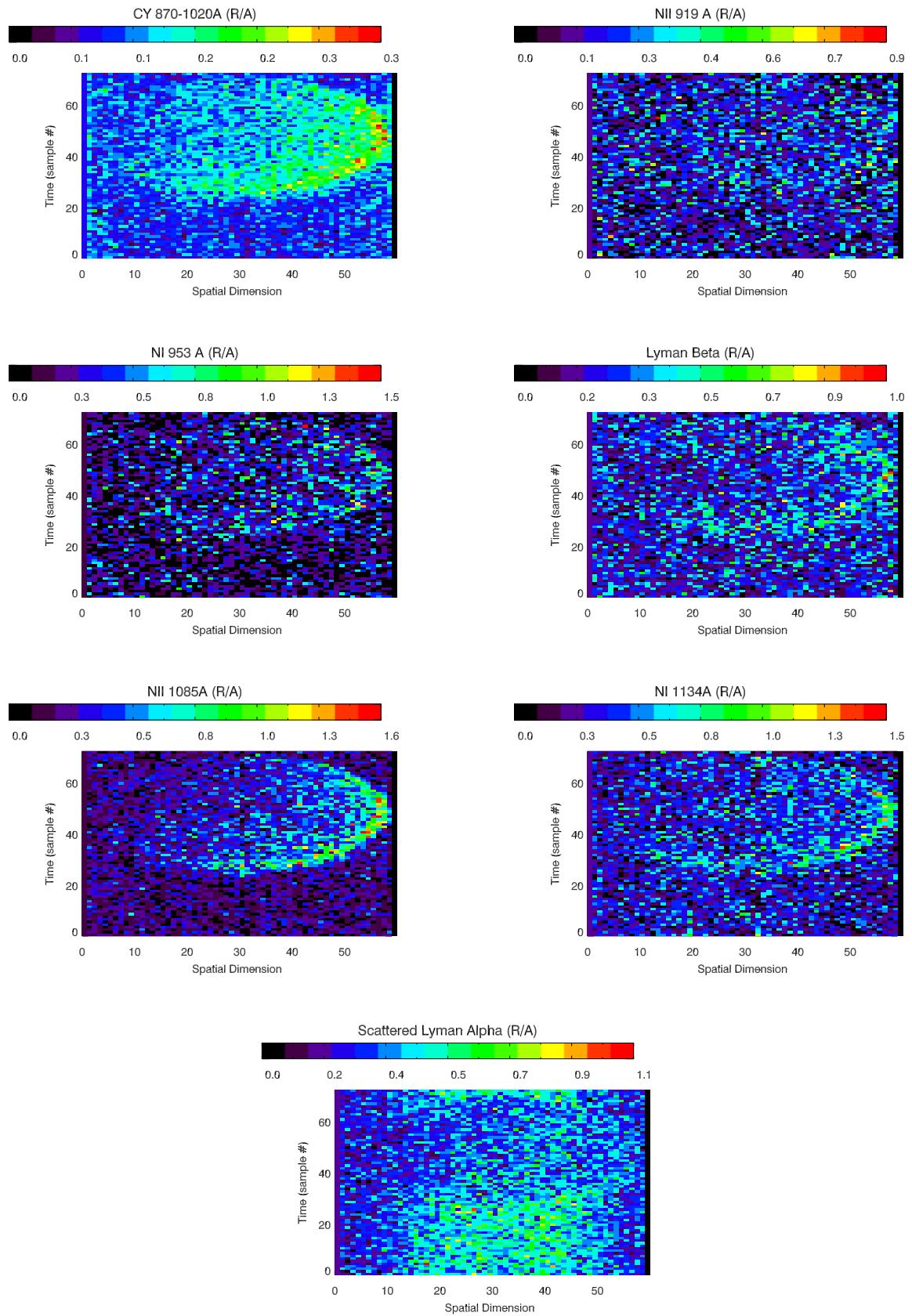


Figure 679: Panel of 7 detector images

FUV2011_129_02_07_40_UVIS_148TI_EUVFUV001_PRIME

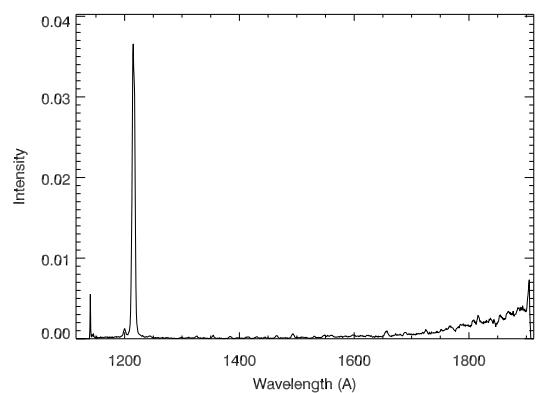


Figure 680: Spectra

body phase angle (deg): 46.0
distance (km): 119959.
Lon sub-s/c (180E): 344.4
Lat sub-s/c: -0.1
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 681: Geometry data

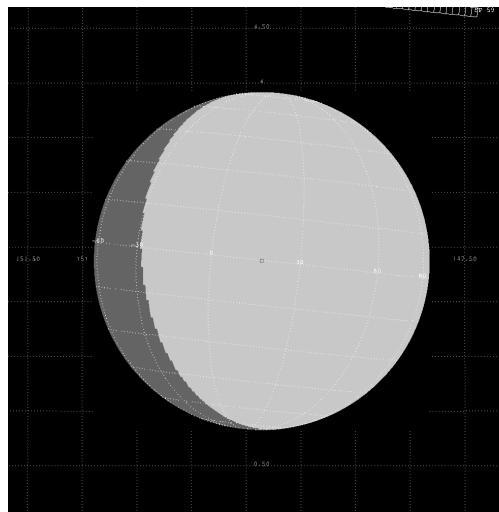


Figure 682: Frame 20

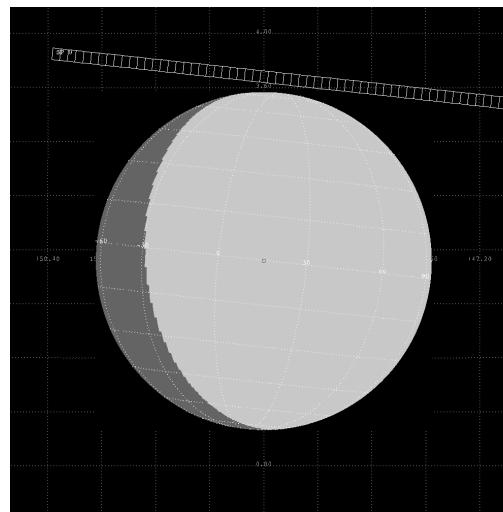


Figure 683: Frame 35

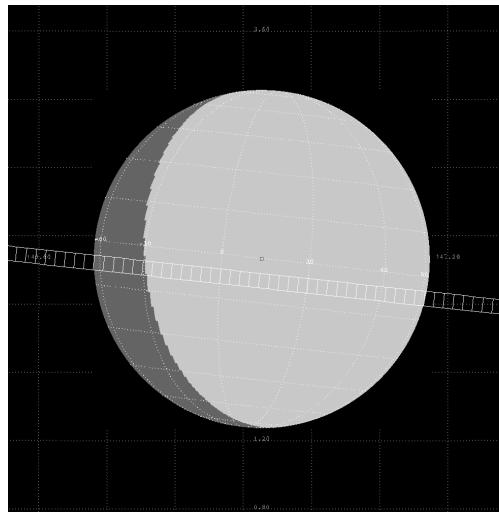


Figure 684: Frame 55

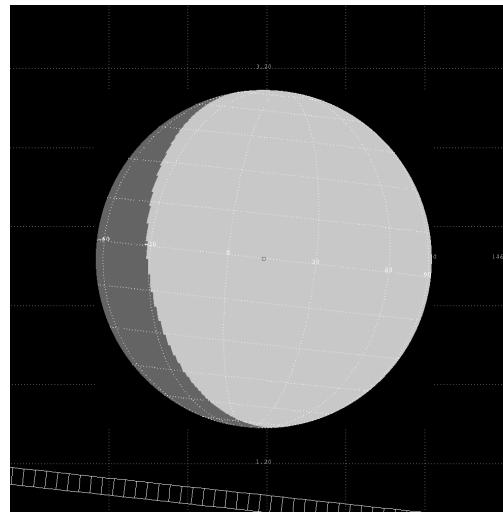


Figure 685: Frame 70

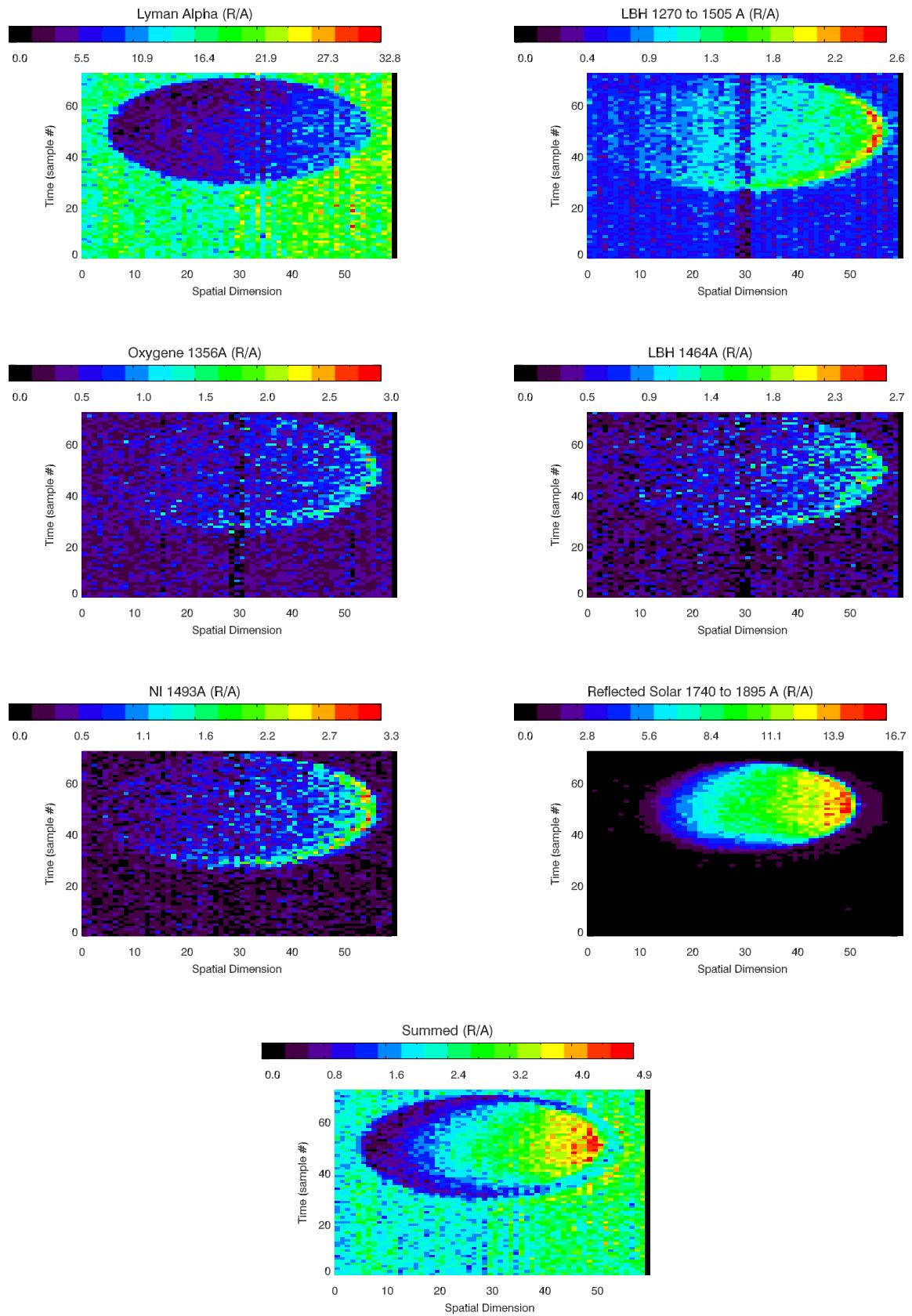


Figure 686: Panel of 7 detector images

EUV2011_171_09_38_23_UVIS_149TI_EUVFUV001_PRIME

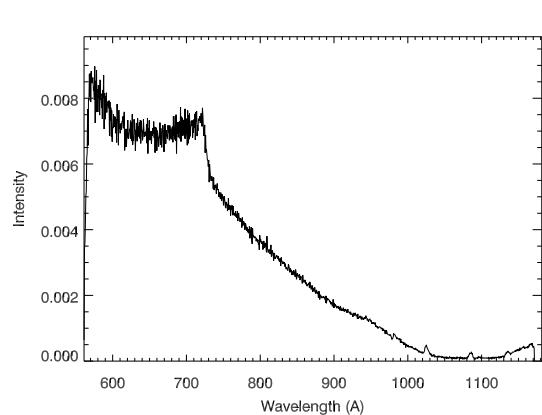


Figure 687: Spectra

body phase angle (deg): 161.8
distance (km): 114787.
Lon sub-s/c (180E): 8.8
Lat sub-s/c: -0.1
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 688: Geometry data

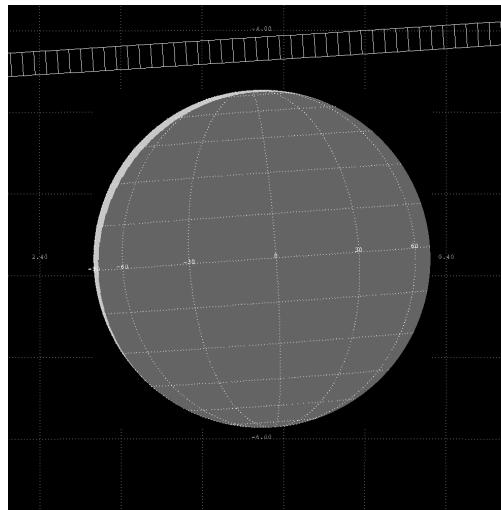


Figure 689: Frame 0

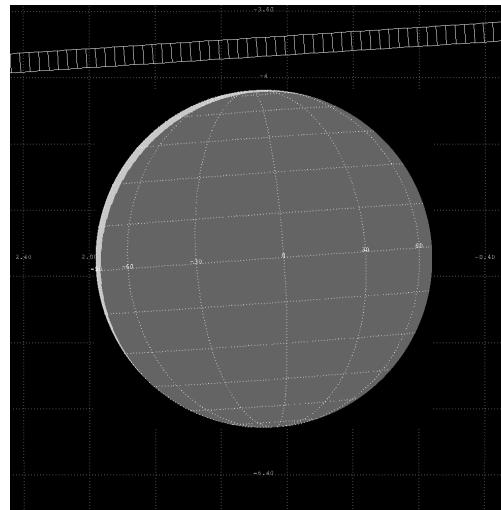


Figure 690: Frame 25

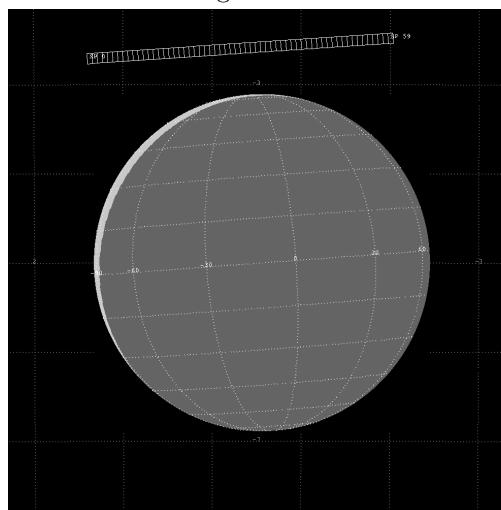


Figure 691: Frame 75

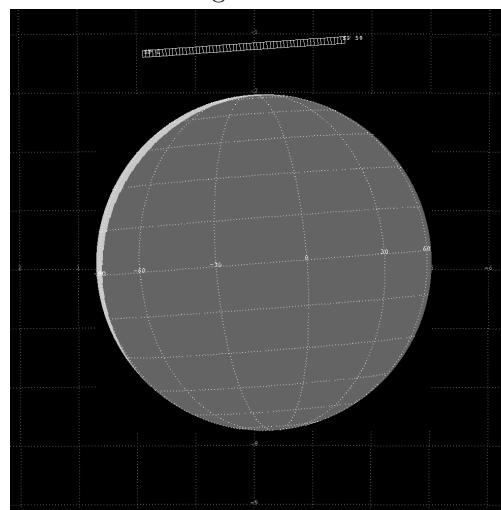


Figure 692: Frame 95

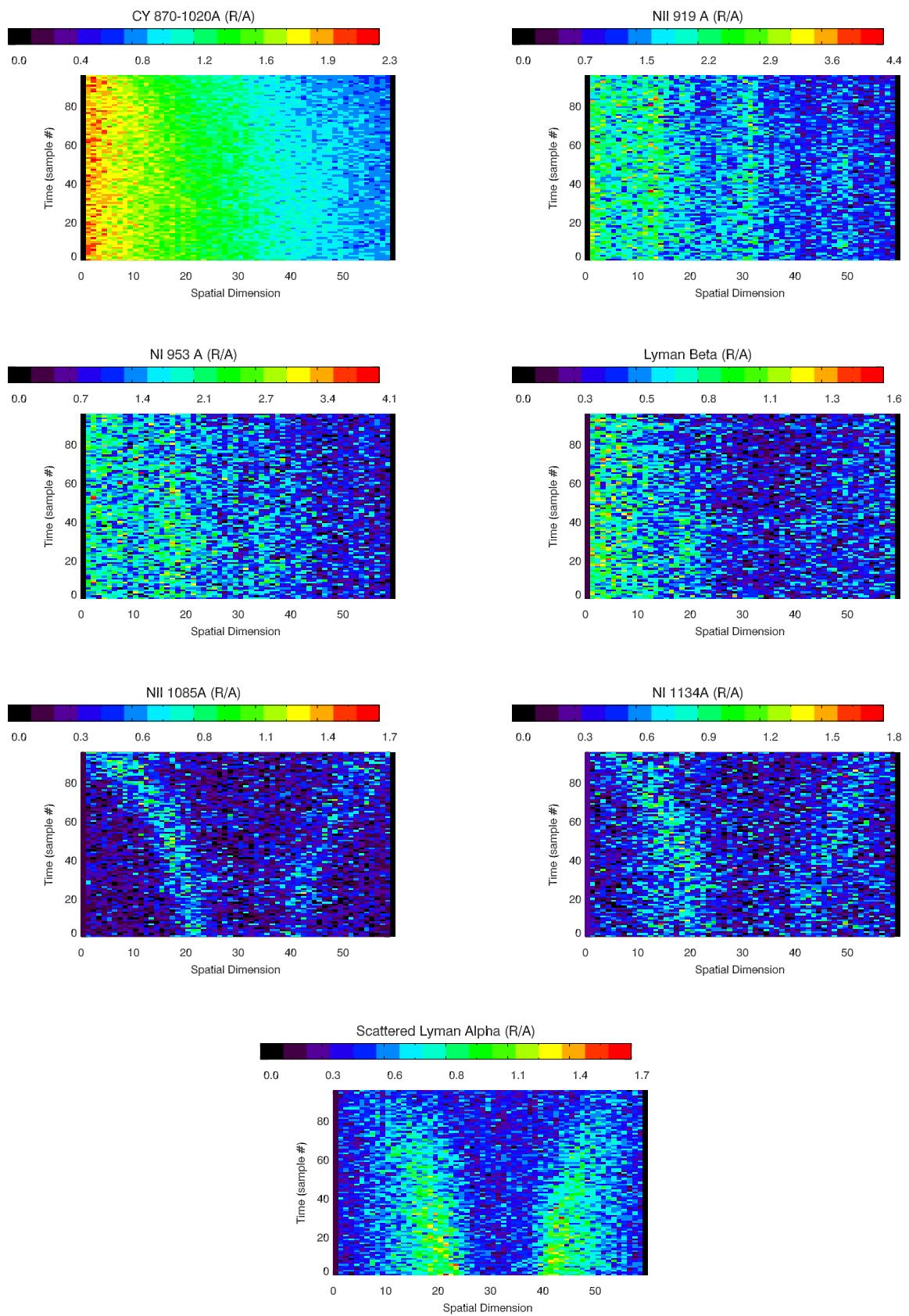


Figure 693: Panel of 7 detector images

FUV2011_171_09_38_23_UVIS_149TI_EUVFUV001_PRIME

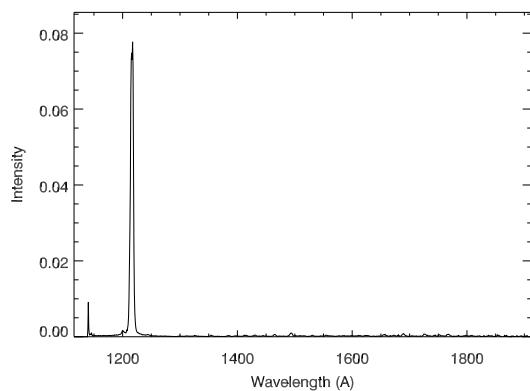


Figure 694: Spectra

body phase angle (deg): 161.8
distance (km): 114787.
Lon sub-s/c (180E): 8.8
Lat sub-s/c: -0.1
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 695: Geometry data

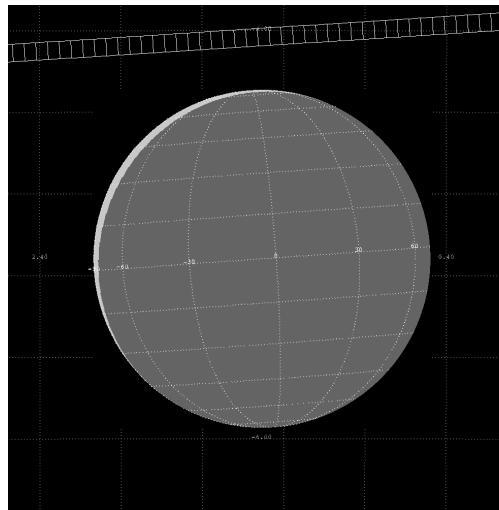


Figure 696: Frame 0

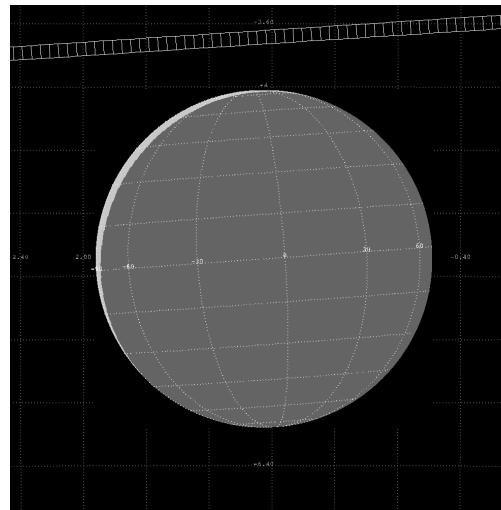


Figure 697: Frame 30

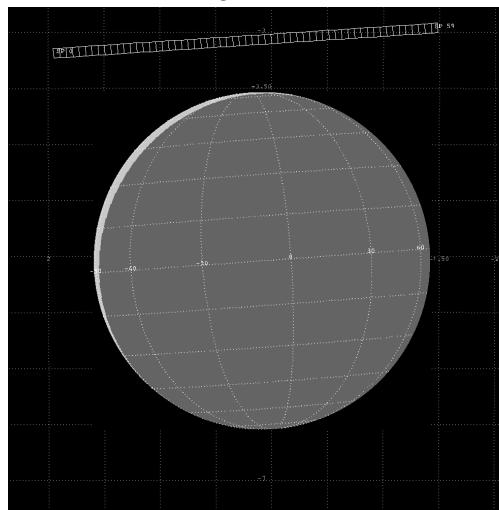


Figure 698: Frame 60

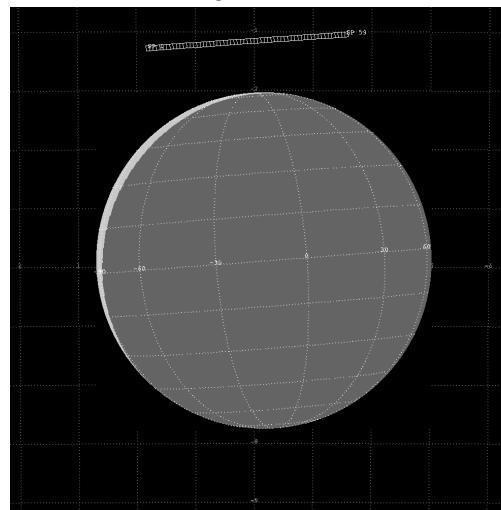


Figure 699: Frame 95

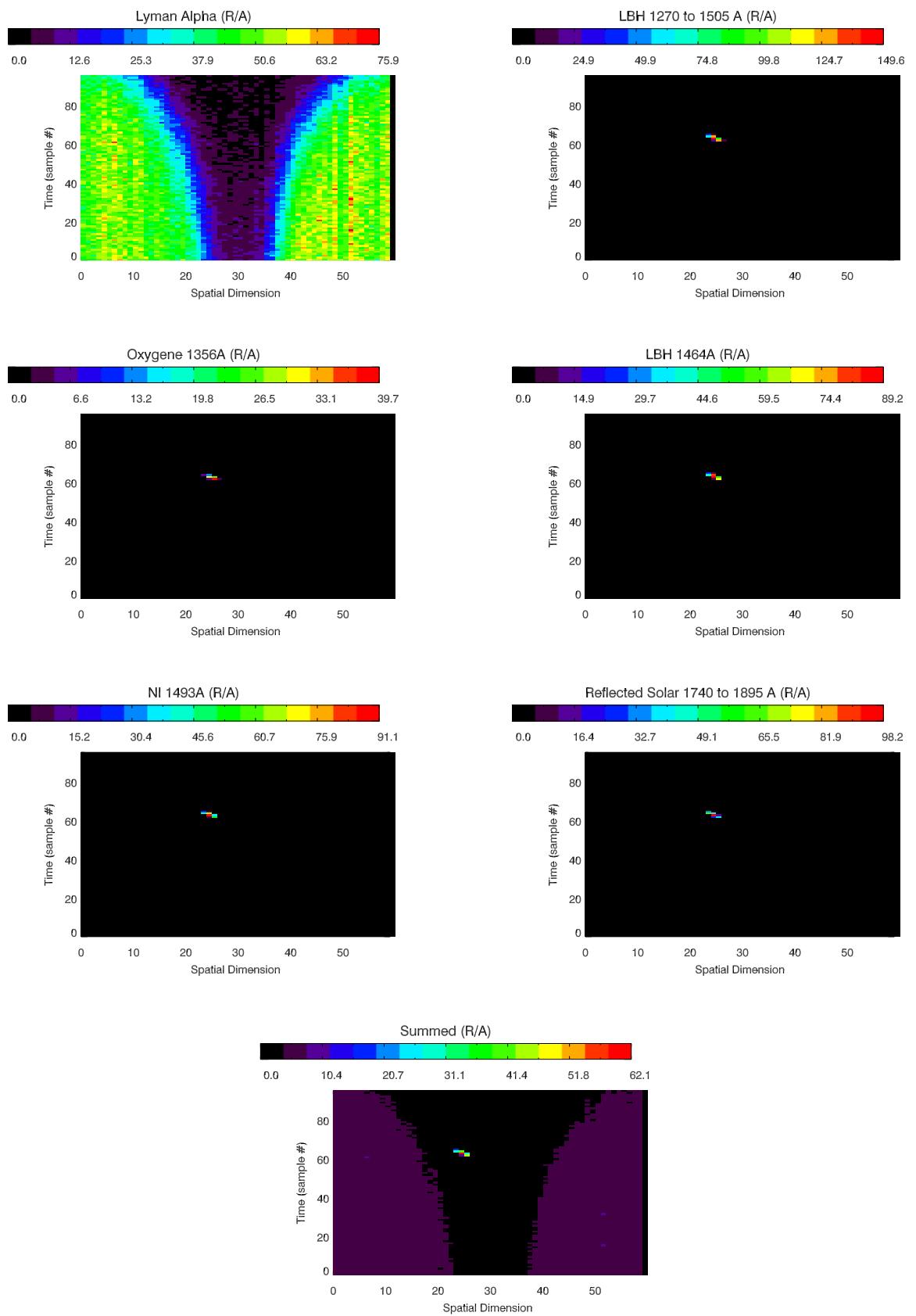


Figure 700: Panel of 7 detector images

Year 2012

Brief descriptif of observations:

- Day 030: Nightside. Dayglow, and limb focused on dayglow. No nightglow. Possible enhancement?
- Day 030-2: Dayside. Focused on limb and then scan. Dayglow, no nightglow
- Day 159: No EUV data! Dayside limb. Faint dayglow?
- Day 270: Dayside limb. Dayglow. Possible enhancements?
- Day 270-2: No EUV data! Only 8 samples

EUV2012_030_04_48_26_UVIS_160TI_EUVFUV001_PRIME

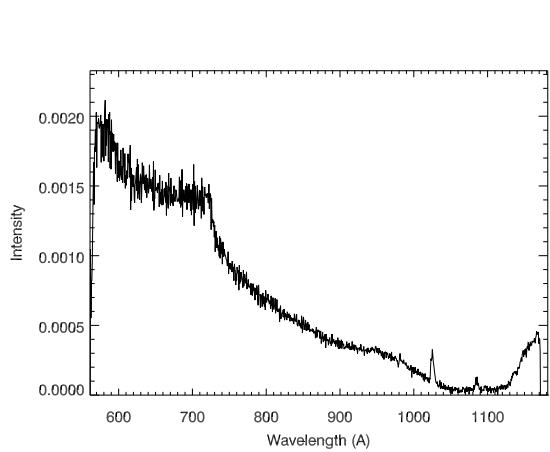


Figure 701: Spectra

body phase angle (deg): 157.5
distance (km): 115013.
Lon sub-s/c (180E): 22.2
Lat sub-s/c: -14.5
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 702: Geometry data

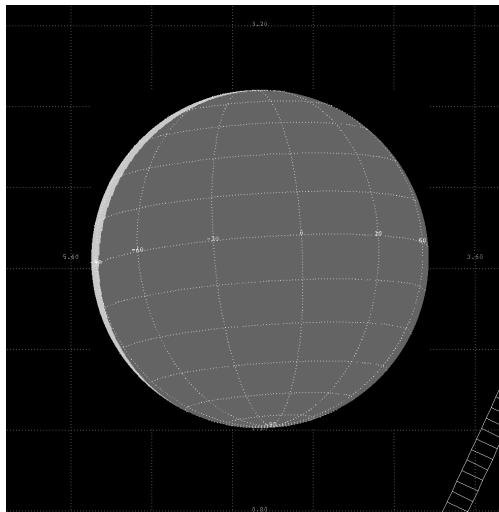


Figure 703: Frame 0

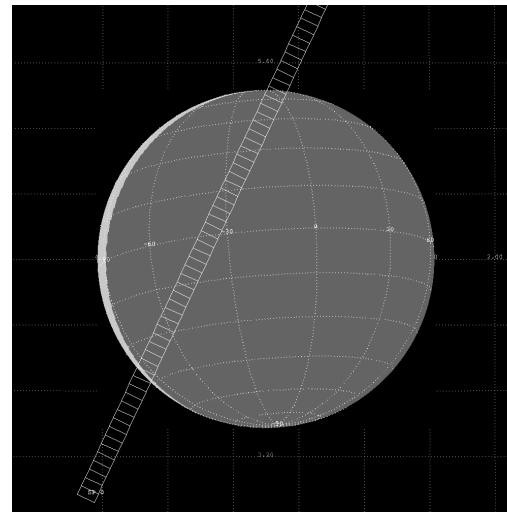


Figure 704: Frame 25

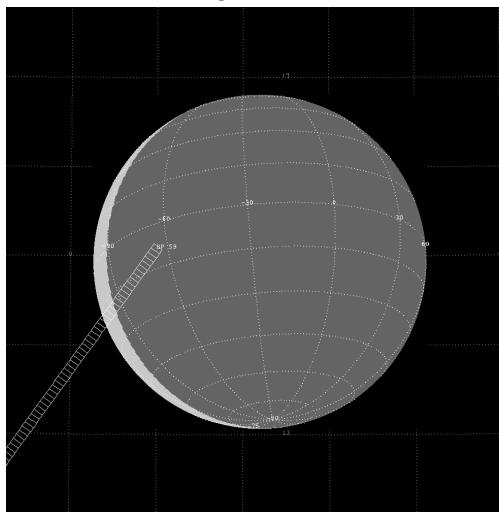


Figure 705: Frame 75

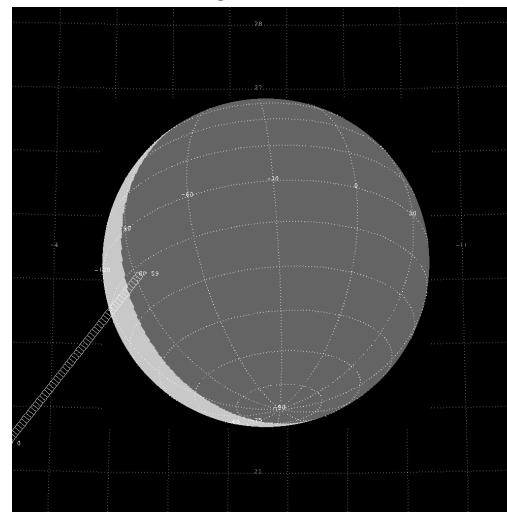


Figure 706: Frame 94

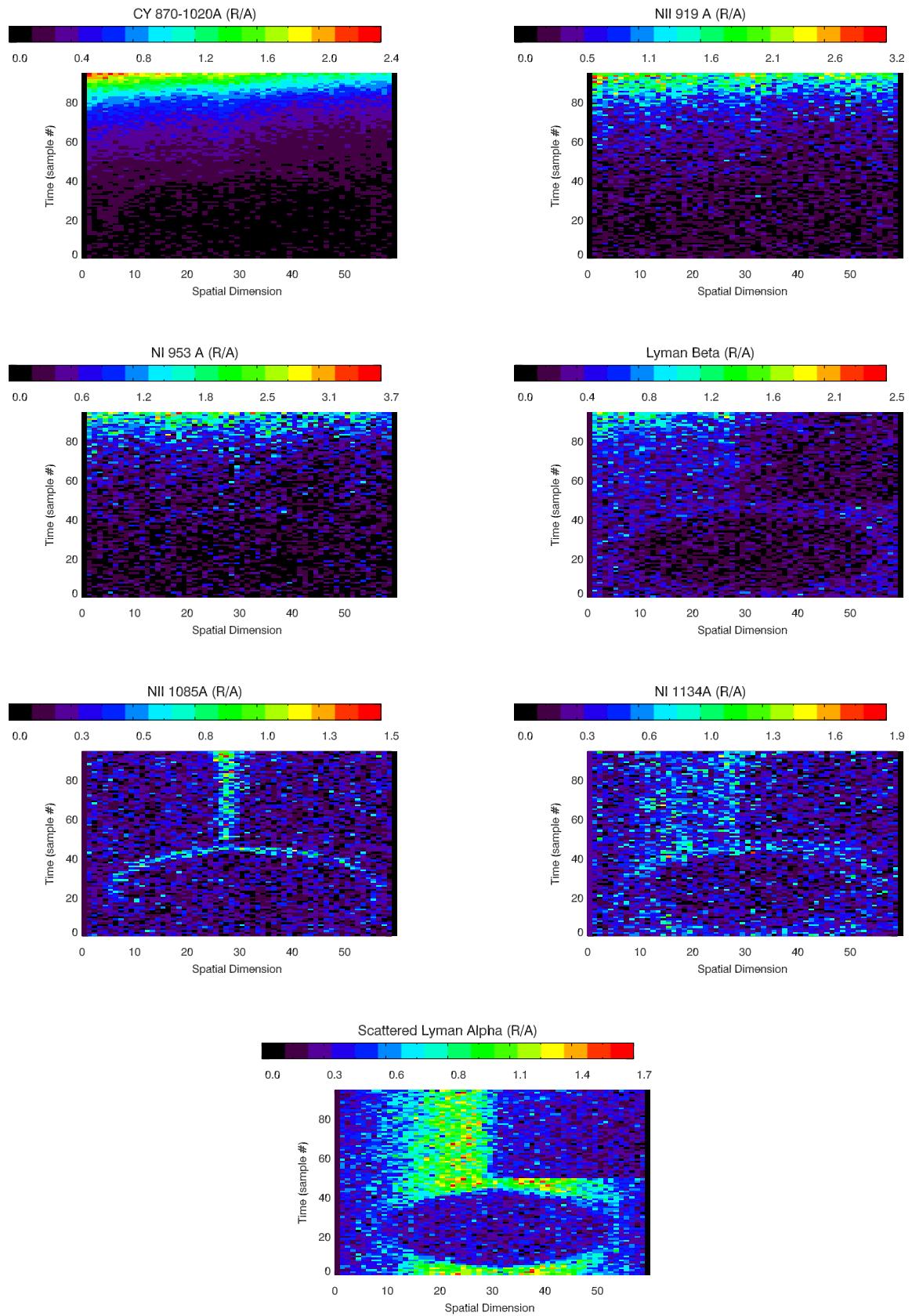


Figure 707: Panel of 7 detector images

FUV2012_030_04_48_26_UVIS_160TI_EUVFUV001_PRIME

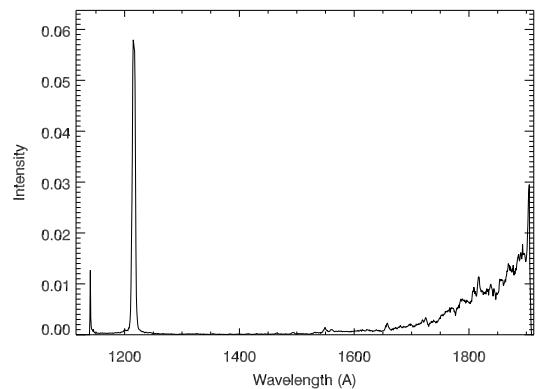


Figure 708: Spectra

body phase angle (deg): 157.5
distance (km): 115013.
Lon sub-s/c (180E): 22.2
Lat sub-s/c: -14.5
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 709: Geometry data

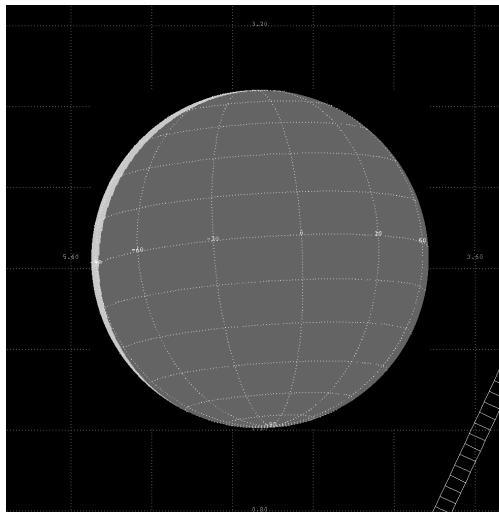


Figure 710: Frame 0

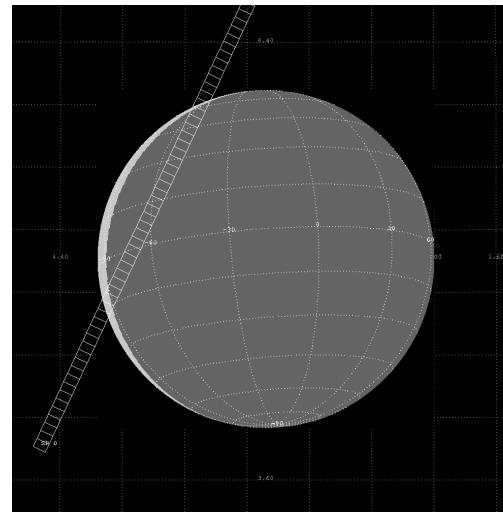


Figure 711: Frame 30

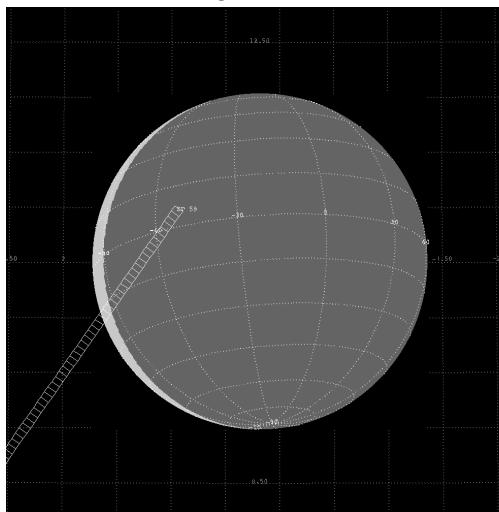


Figure 712: Frame 60

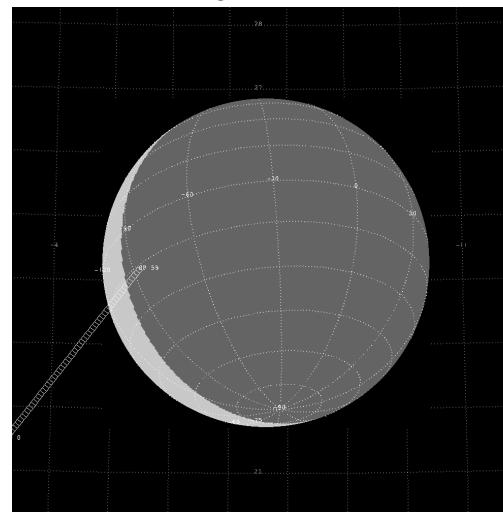


Figure 713: Frame 94

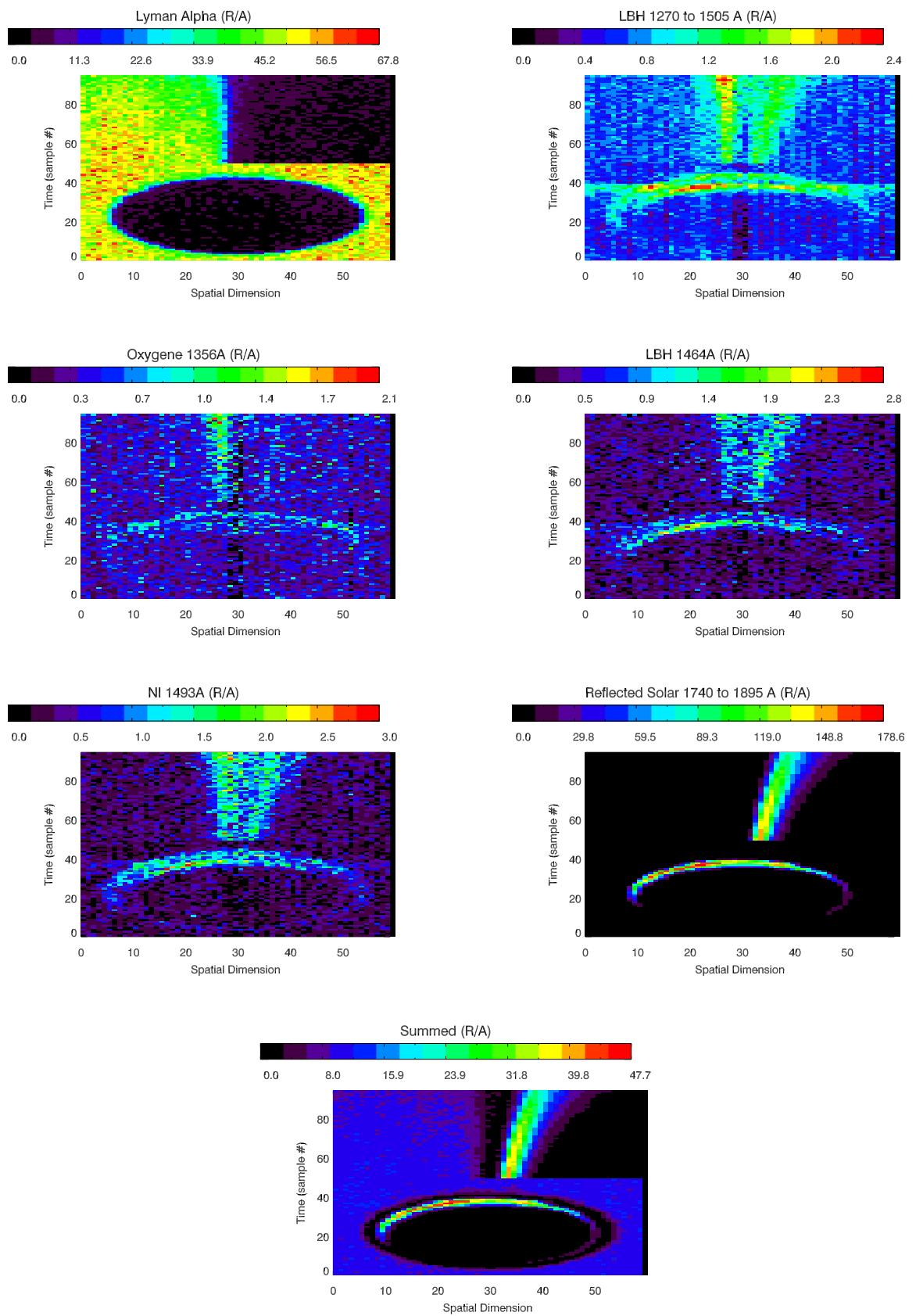


Figure 714: Panel of 7 detector images

EUV2012_030_16_33_26_UVIS_160TI_EUVFUV002_PRIME

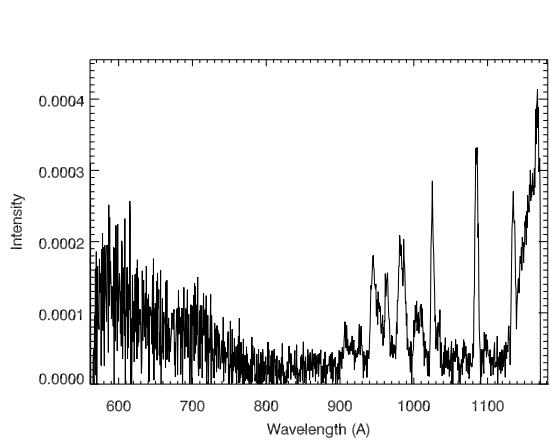


Figure 715: Spectra

body phase angle (deg): 30.1
distance (km): 120014.
Lon sub-s/c (180E): 194.1
Lat sub-s/c: -16.5
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 716: Geometry data

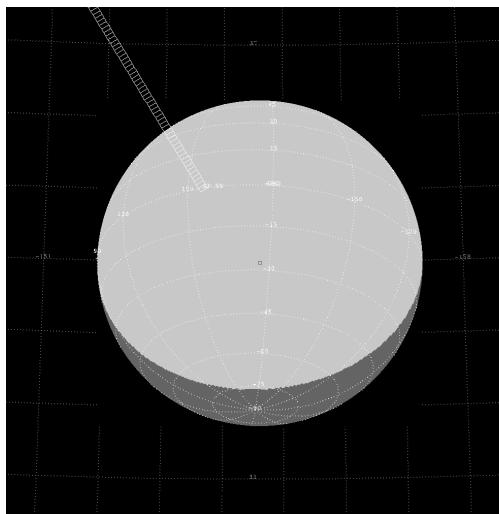


Figure 717: Frame 0

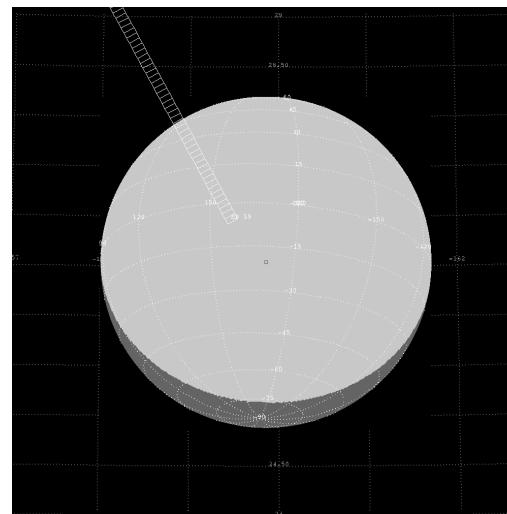


Figure 718: Frame 20

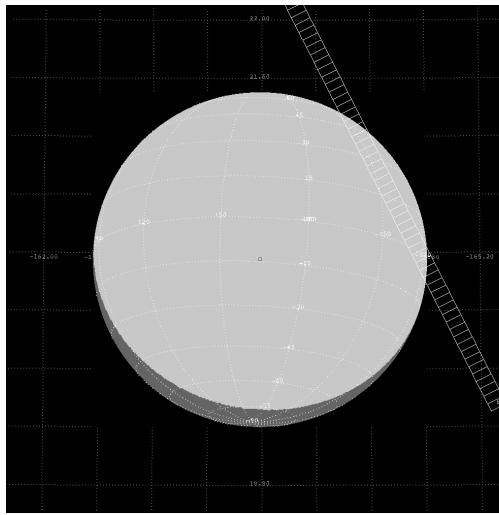


Figure 719: Frame 50

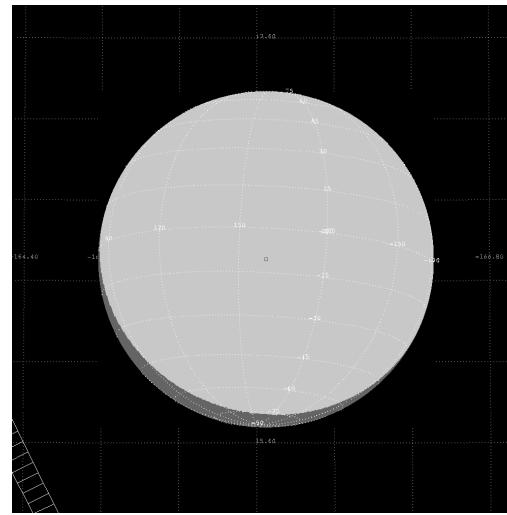


Figure 720: Frame 87

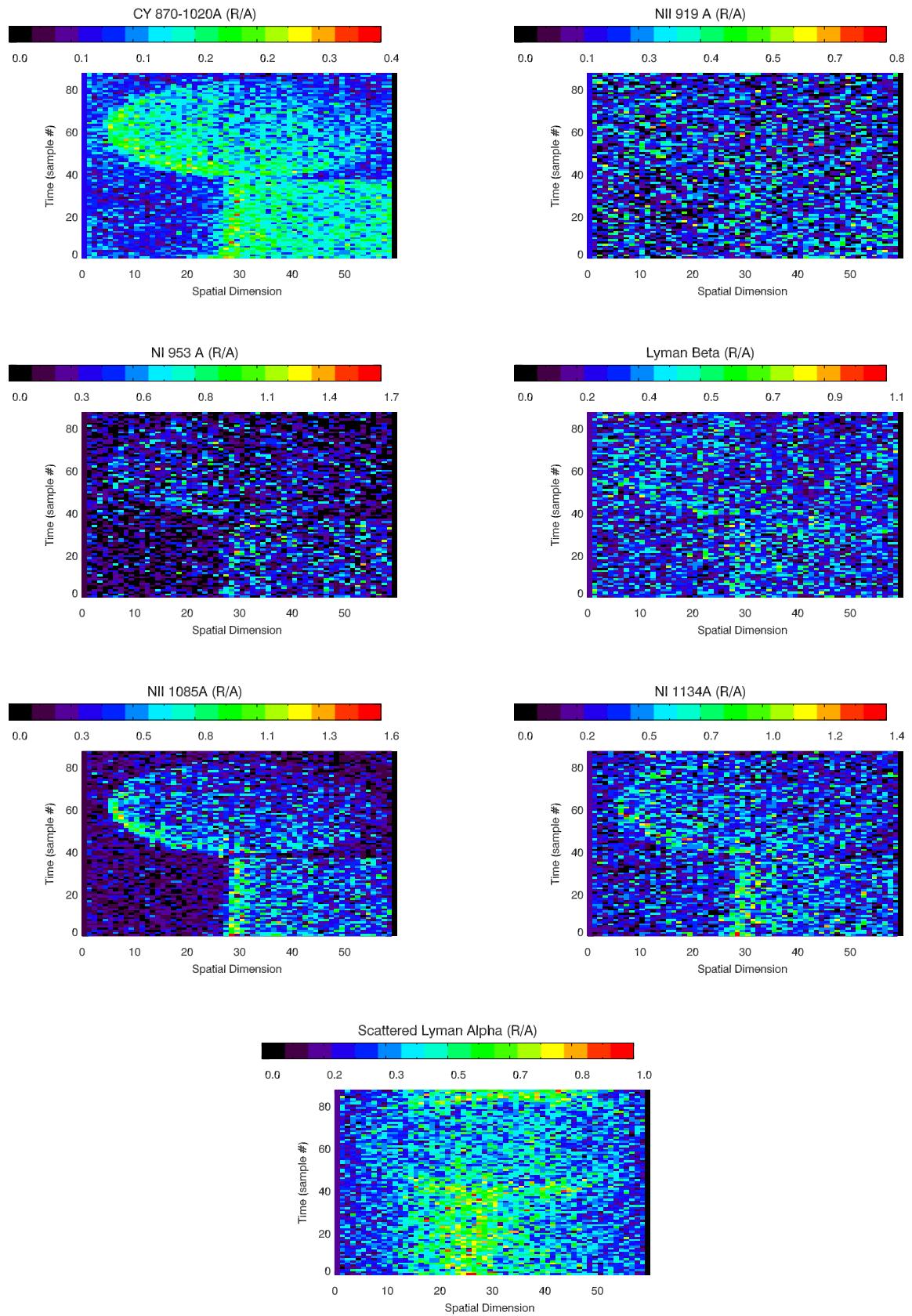


Figure 721: Panel of 7 detector images

FUV2012_030_16_33_26_UVIS_160TI_EUVFUV002_PRIME

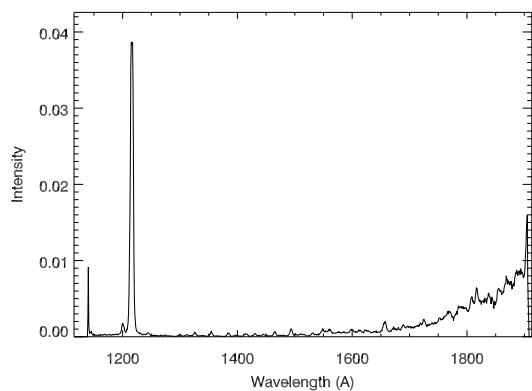
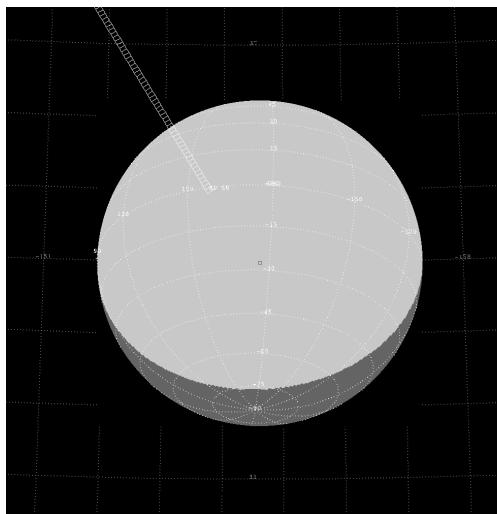


Figure 722: Spectra

body phase angle (deg): 30.1
distance (km): 120014.
Lon sub-s/c (180E): 194.1
Lat sub-s/c: -16.5
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 723: Geometry data



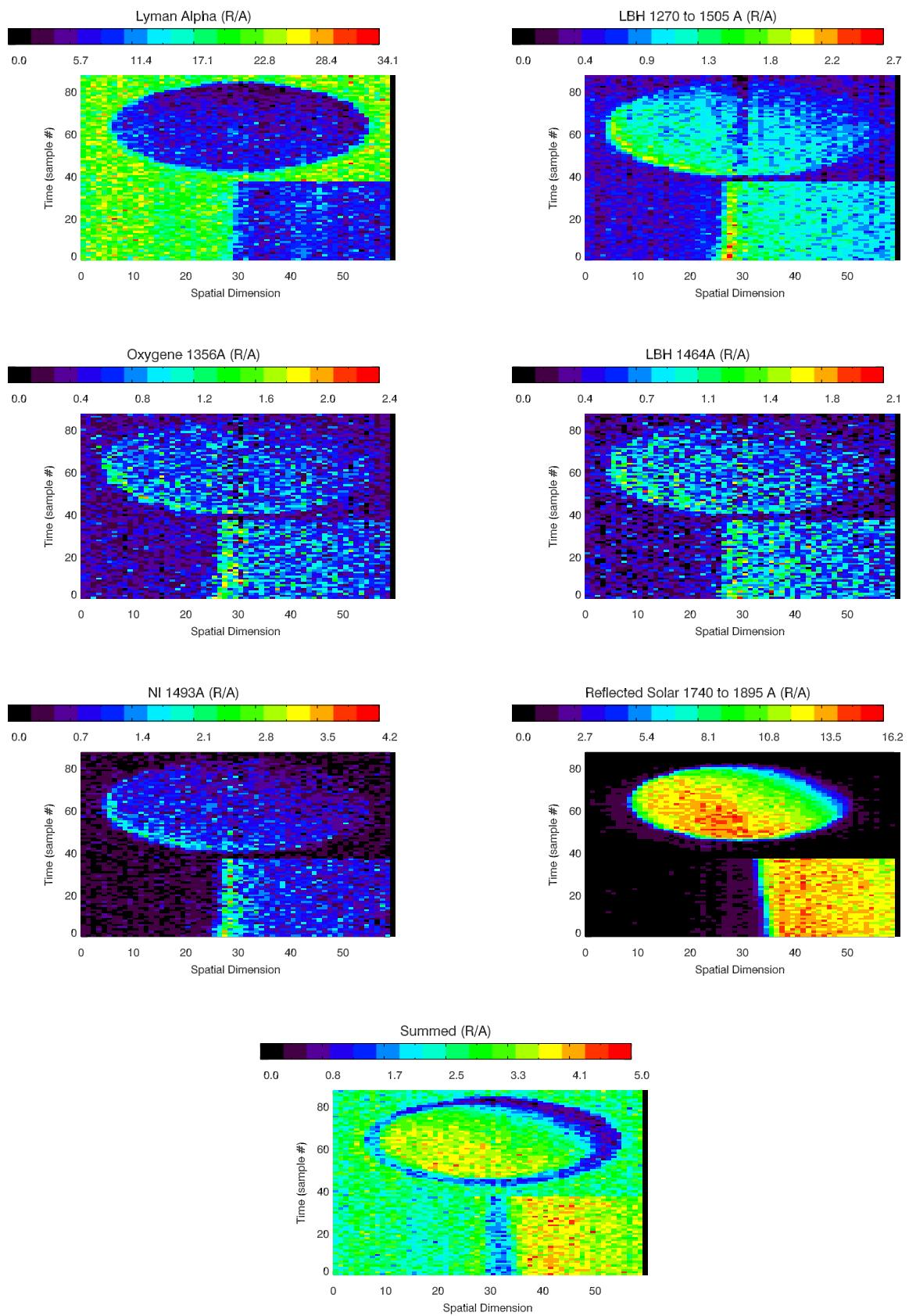


Figure 728: Panel of 7 detector images

FUV2012_159_02_32_50_UVIS_167TI_EUVFUV001_PRIME

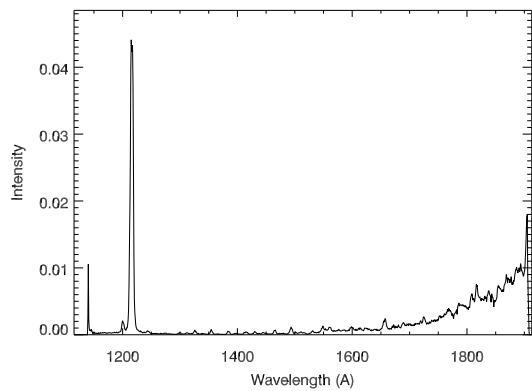


Figure 729: Spectra

body phase angle (deg): 27.7
distance (km): 112163.
Lon sub-s/c (180E): 205.5
Lat sub-s/c: -12.9
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 730: Geometry data

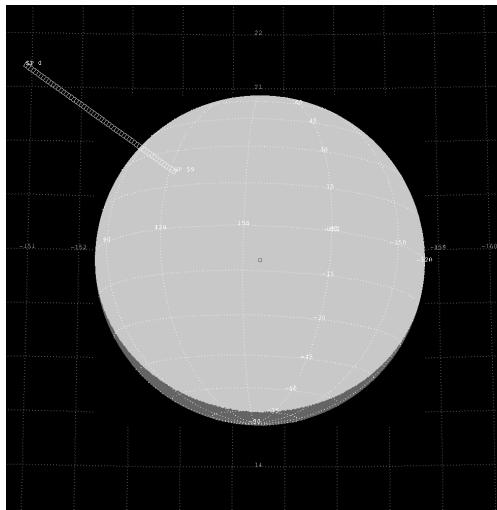


Figure 731: Frame 0

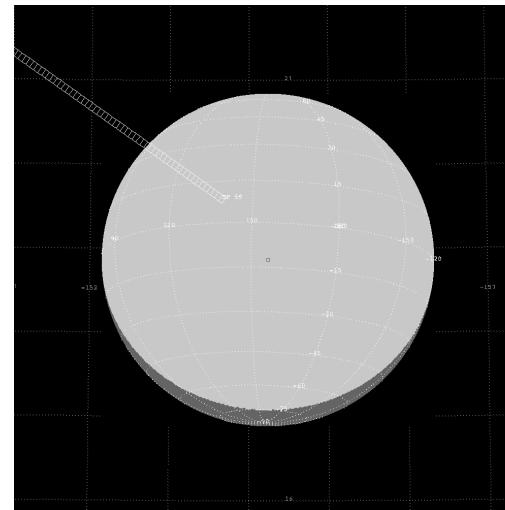


Figure 732: Frame 20

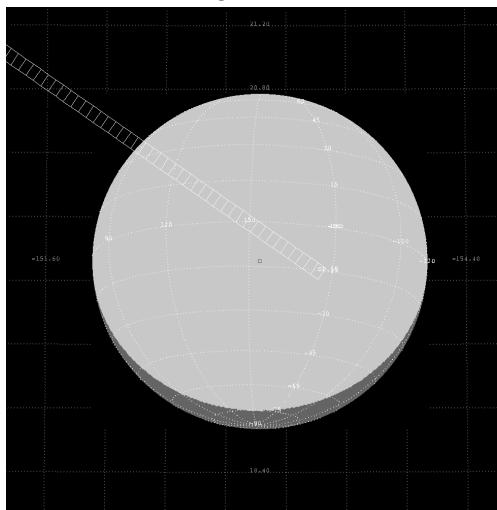


Figure 733: Frame 70

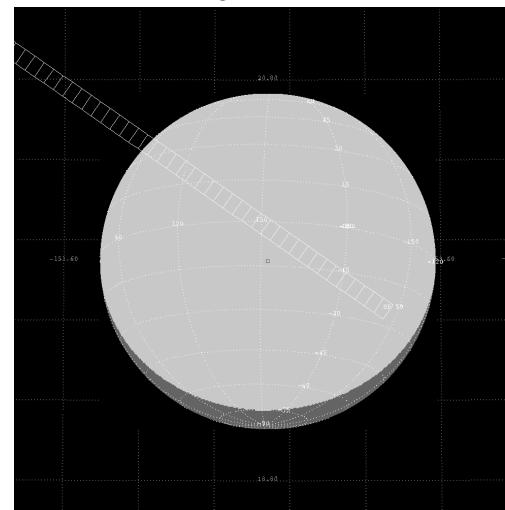


Figure 734: Frame 97

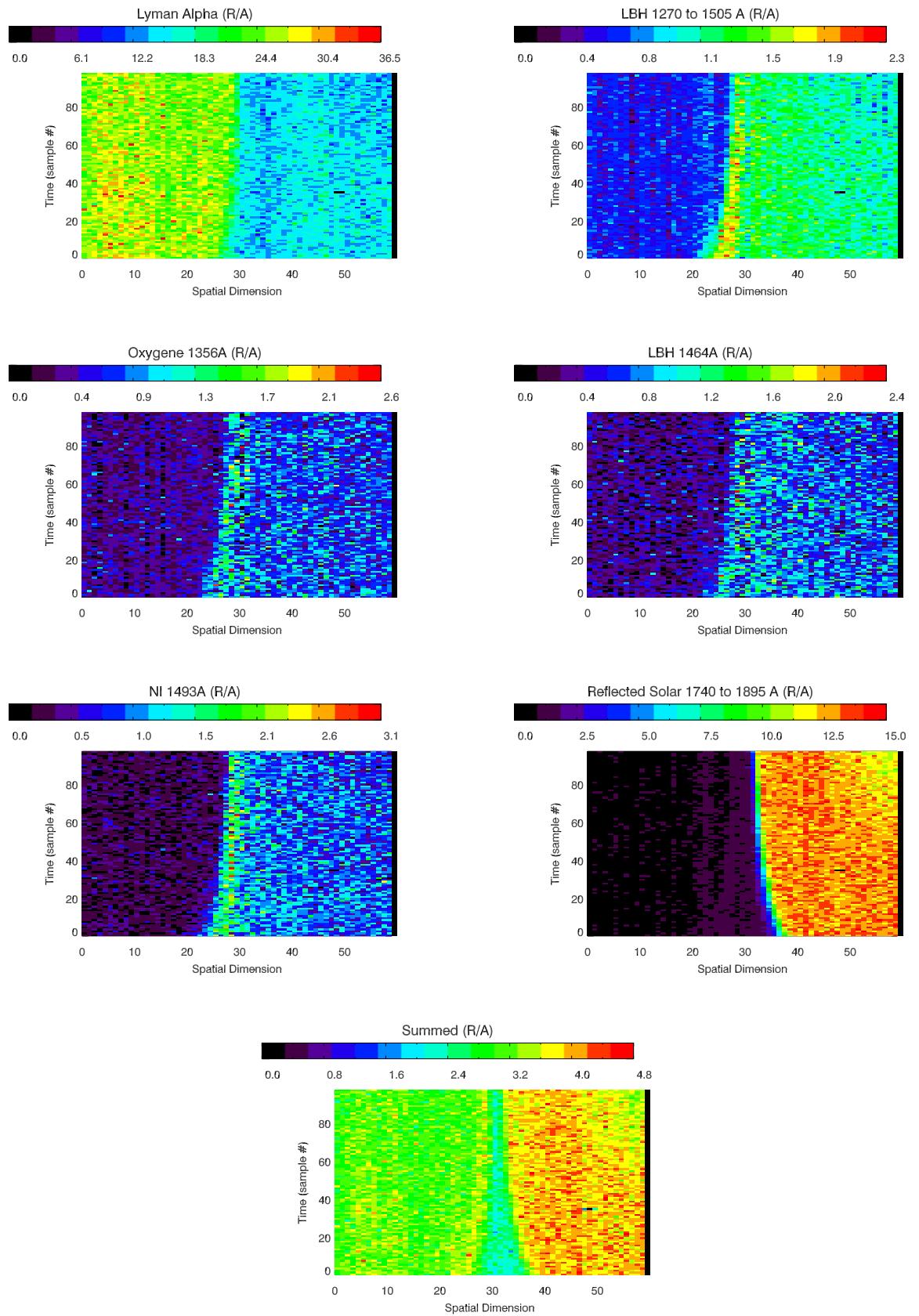


Figure 735: Panel of 7 detector images

EUV2012_270_05_57_50_UVIS_172TI_EUVFUV001_PRIME

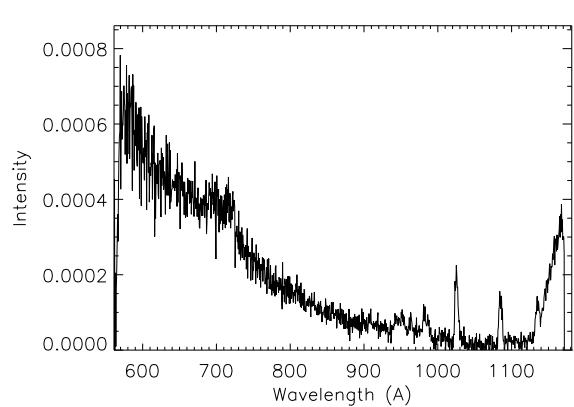


Figure 736: Spectra

body phase angle (deg): 138.8
distance (km): 114287.
Lon sub-s/c (180E): 16.1
Lat sub-s/c: 24.9
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 1200

Figure 737: Geometry data

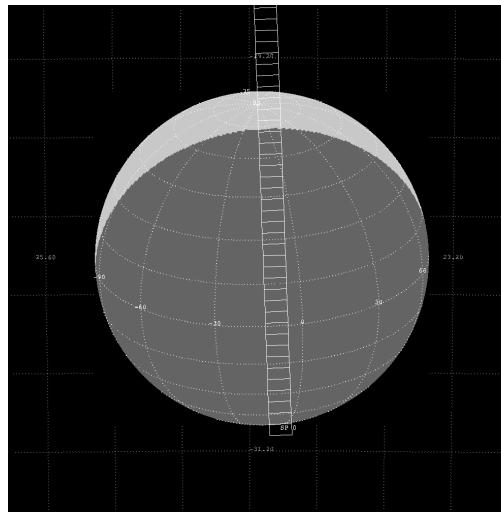


Figure 738: Frame 0

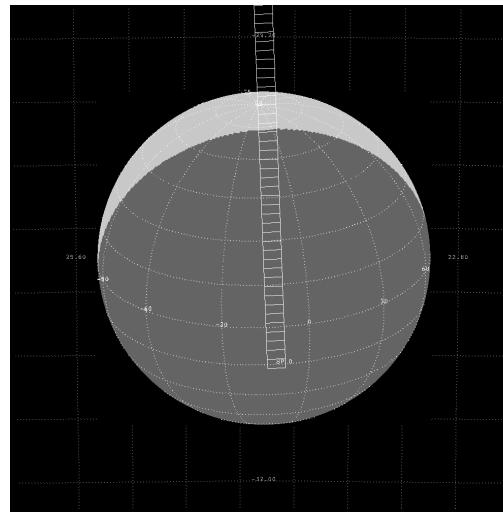


Figure 739: Frame 5

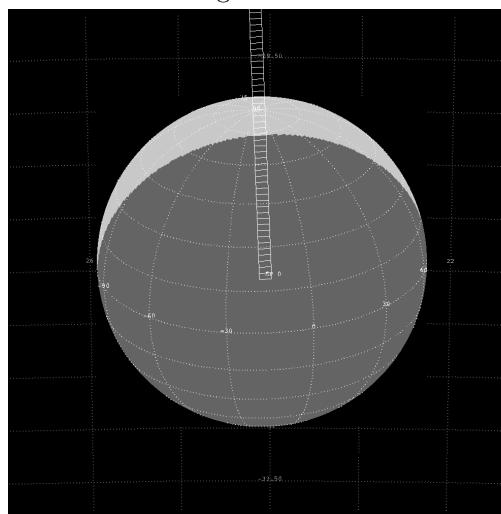


Figure 740: Frame 12

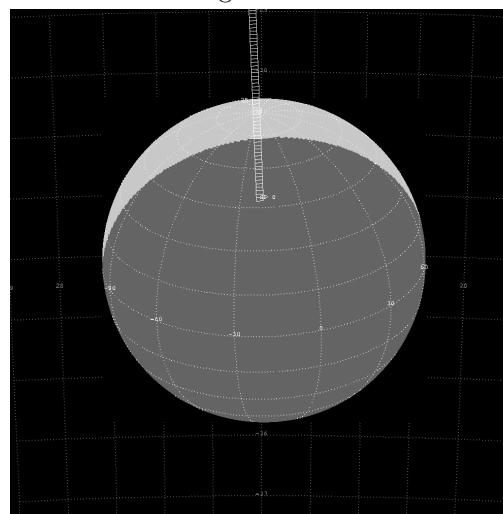


Figure 741: Frame 18

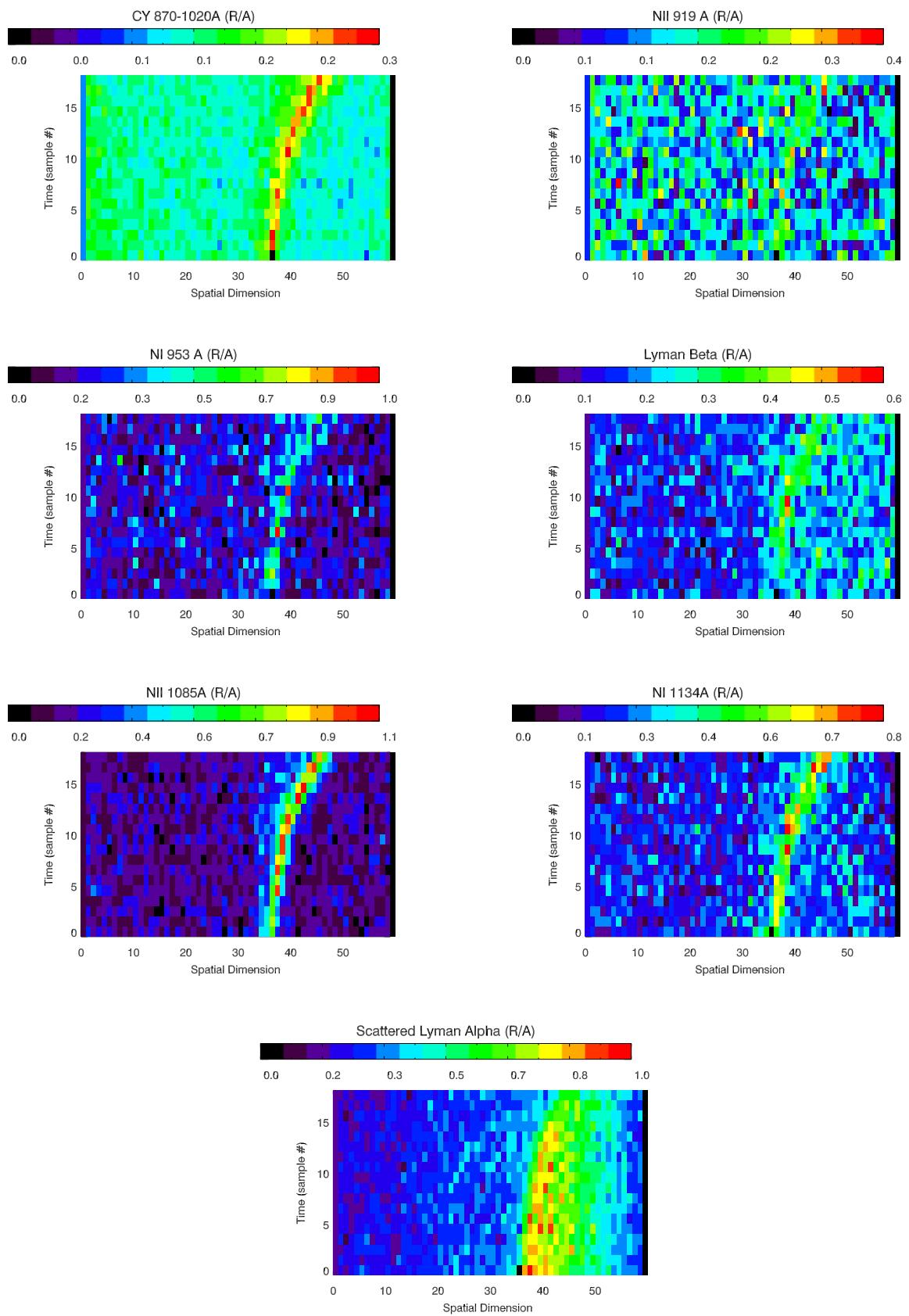


Figure 742: Panel of 7 detector images

FUV2012_270_05_57_50_UVIS_172TI_EUVFUV001_PRIME

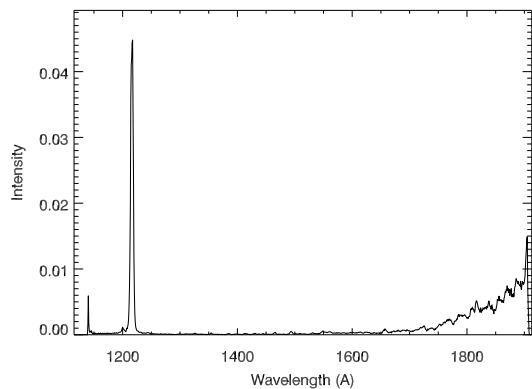


Figure 743: Spectra

body phase angle (deg): 138.8
distance (km): 114287.
Lon sub-s/c (180E): 16.1
Lat sub-s/c: 24.9
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 1200

Figure 744: Geometry data

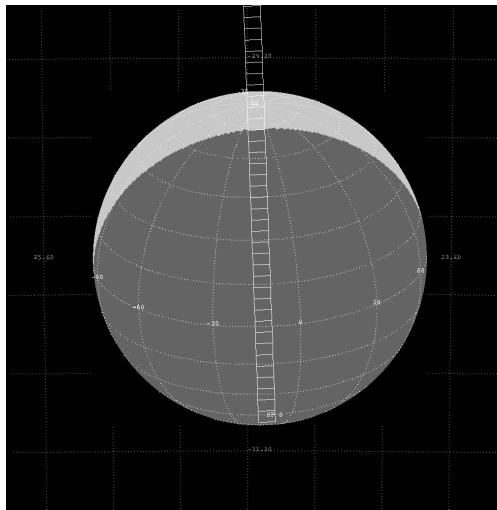


Figure 745: Frame 0

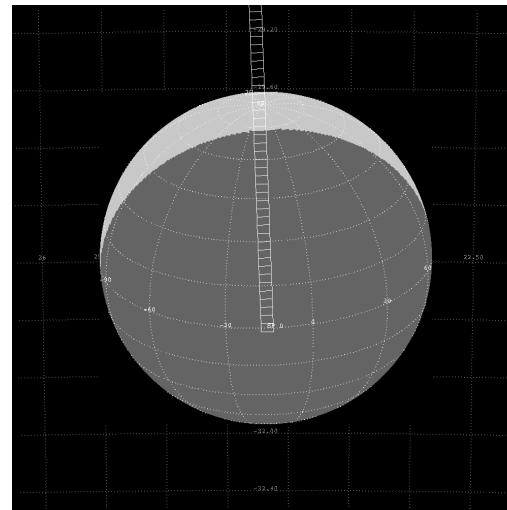


Figure 746: Frame 7

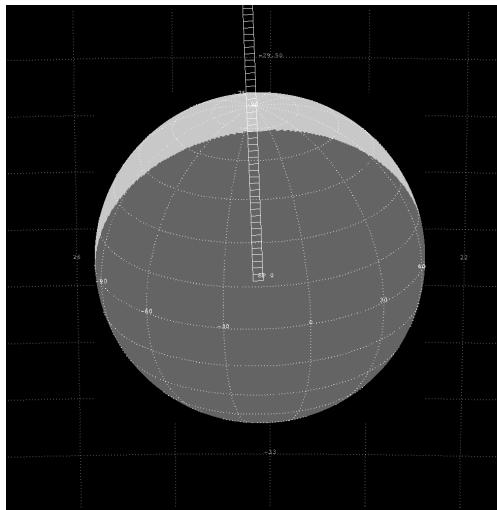


Figure 747: Frame 11

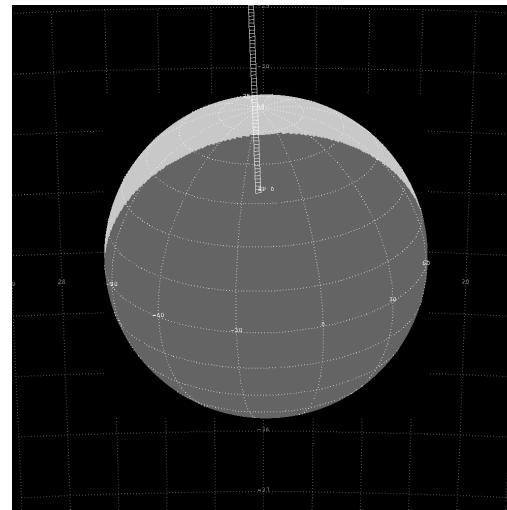


Figure 748: Frame 18

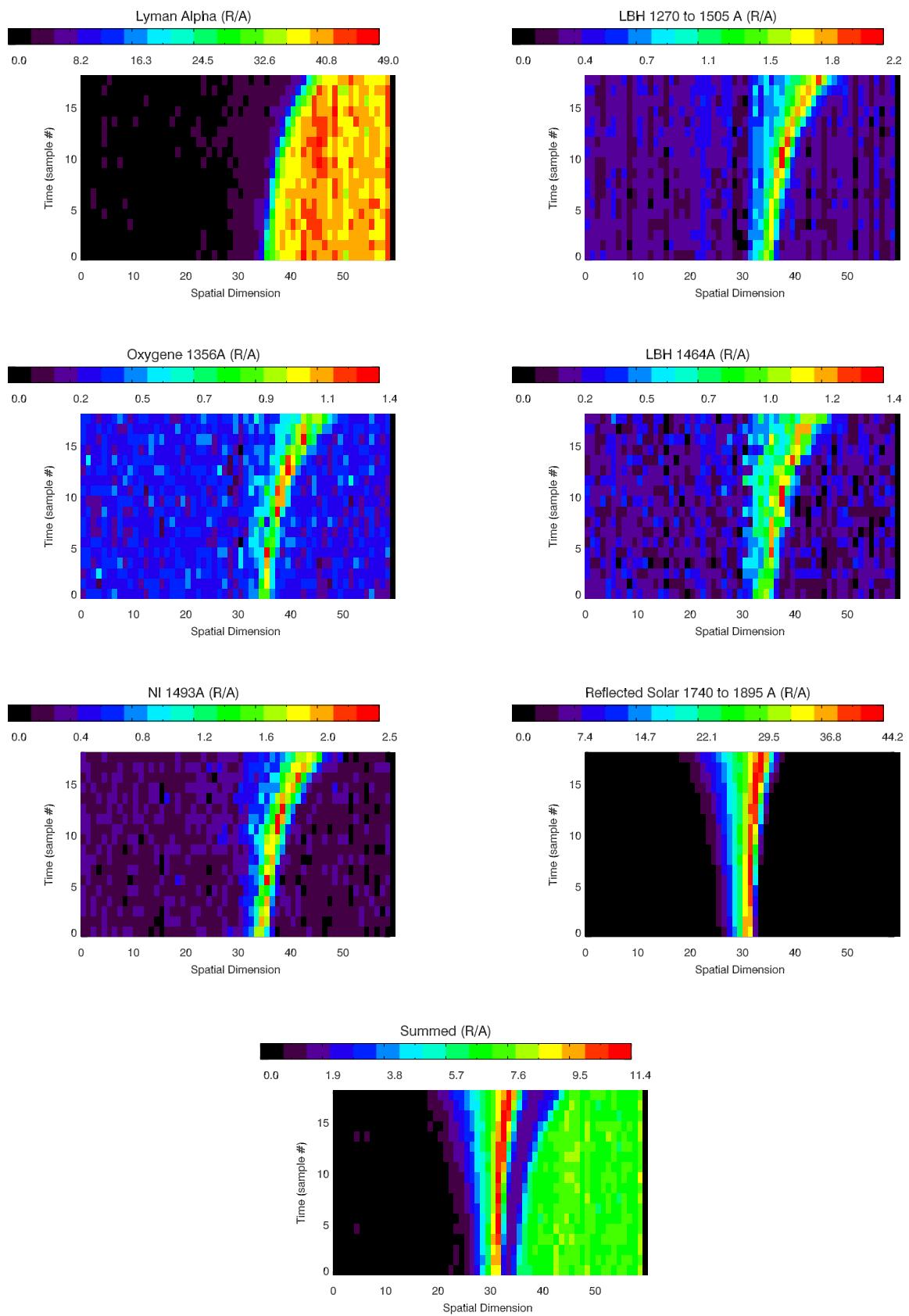


Figure 749: Panel of 7 detector images

FUV2012_270_16_59_35_UVIS_172TI_EUVFUV002_PRIME

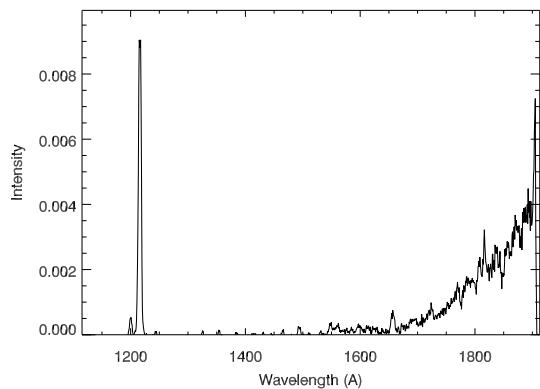


Figure 750: Spectra

body phase angle (deg): 45.2
distance (km): 96503.
Lon sub-s/c (180E): 206.2
Lat sub-s/c: -28.8
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 751: Geometry data

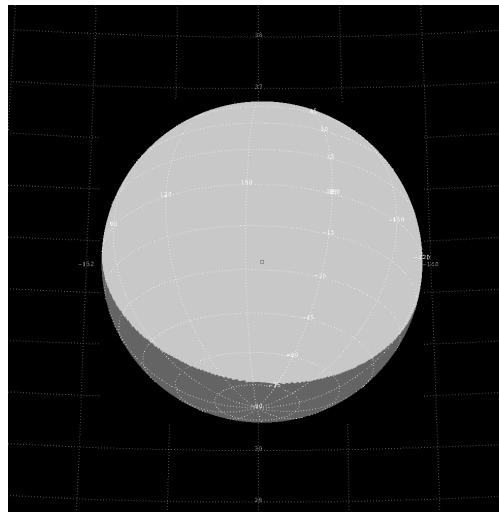


Figure 752: Frame 0

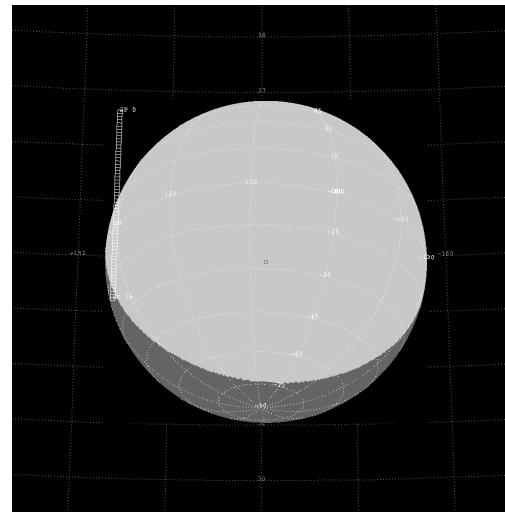


Figure 753: Frame 2

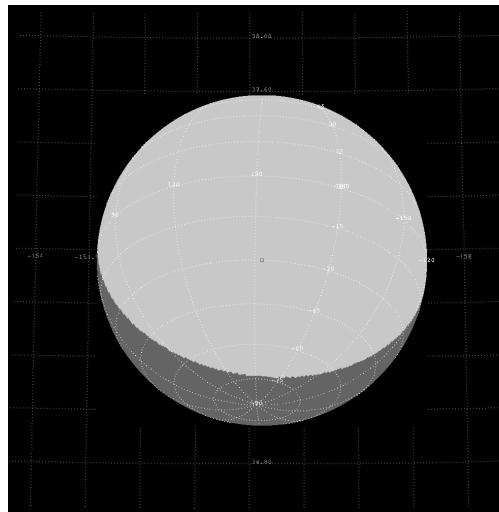


Figure 754: Frame 5

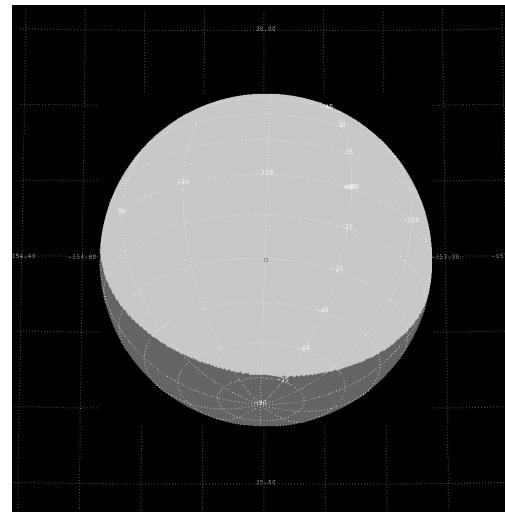


Figure 755: Frame 8

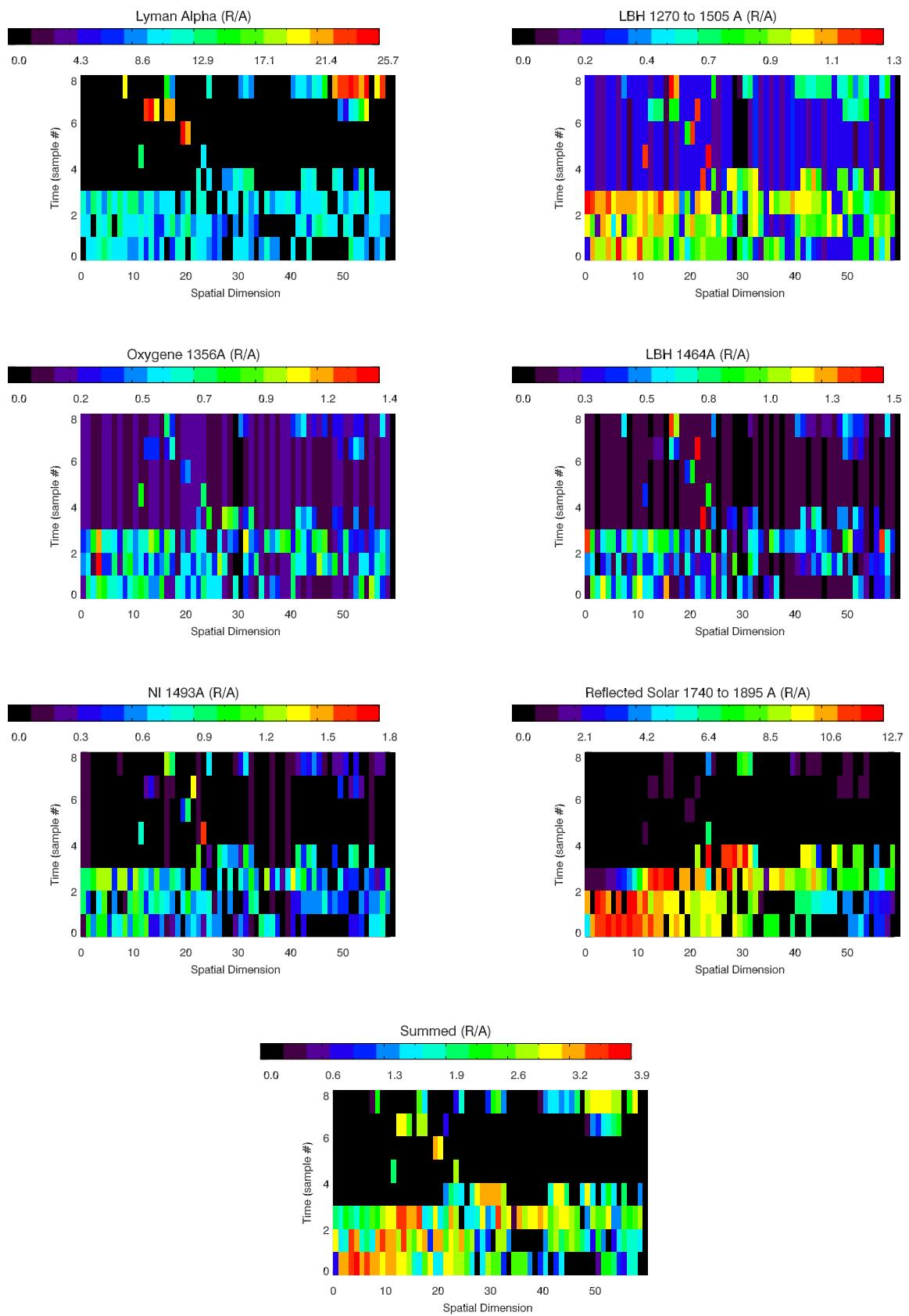


Figure 756: Panel of 7 detector images

Year 2013

Brief descriptif of observations:

- Day 254: No slit on geometry plots. Limb maybe, seem to have an airglow
- Day 255: No slit on geometry. Limb geometry?

EUV2013_254_23_21_48_UVIS_197TI_EUVFUV001_ISS

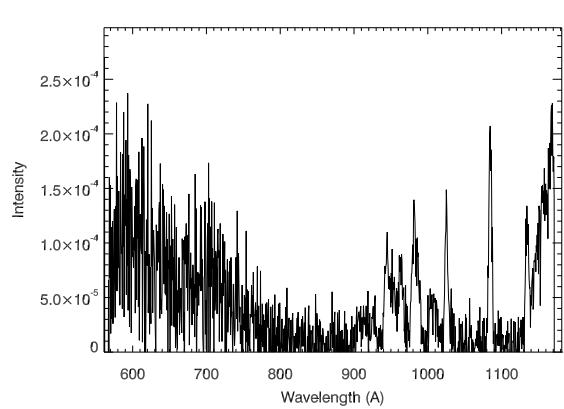


Figure 757: Spectra

body phase angle (deg): 83.4
distance (km): 107046.
Lon sub-s/c (180E): 55.0
Lat sub-s/c: 67.6
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 590

Figure 758: Geometry data

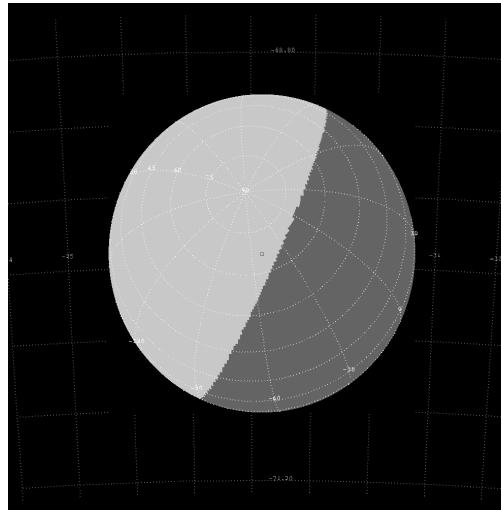


Figure 759: Frame 0

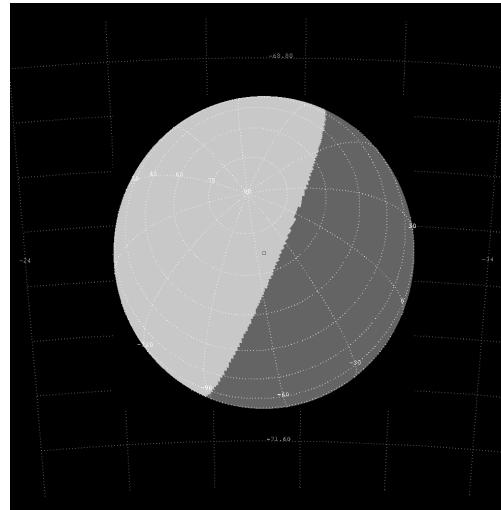


Figure 760: Frame 7

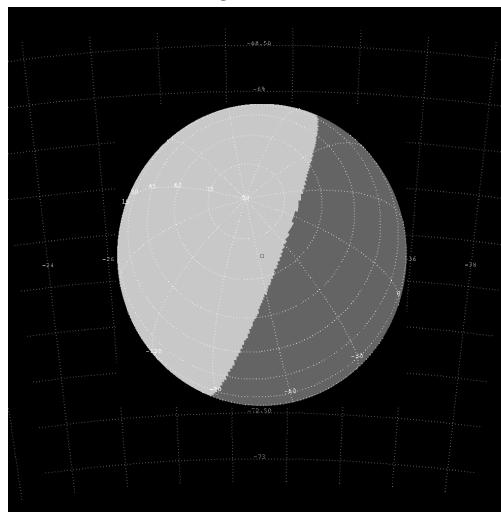


Figure 761: Frame 14

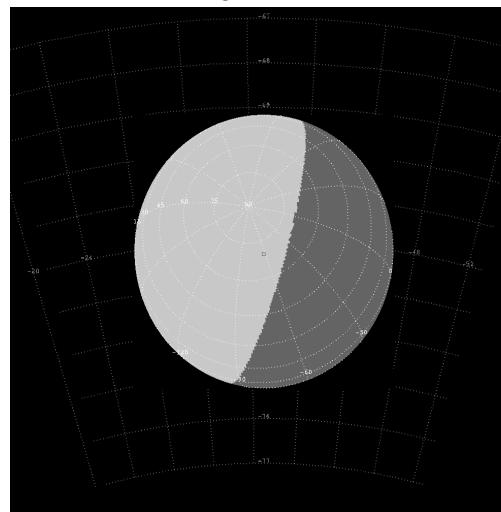


Figure 762: Frame 22

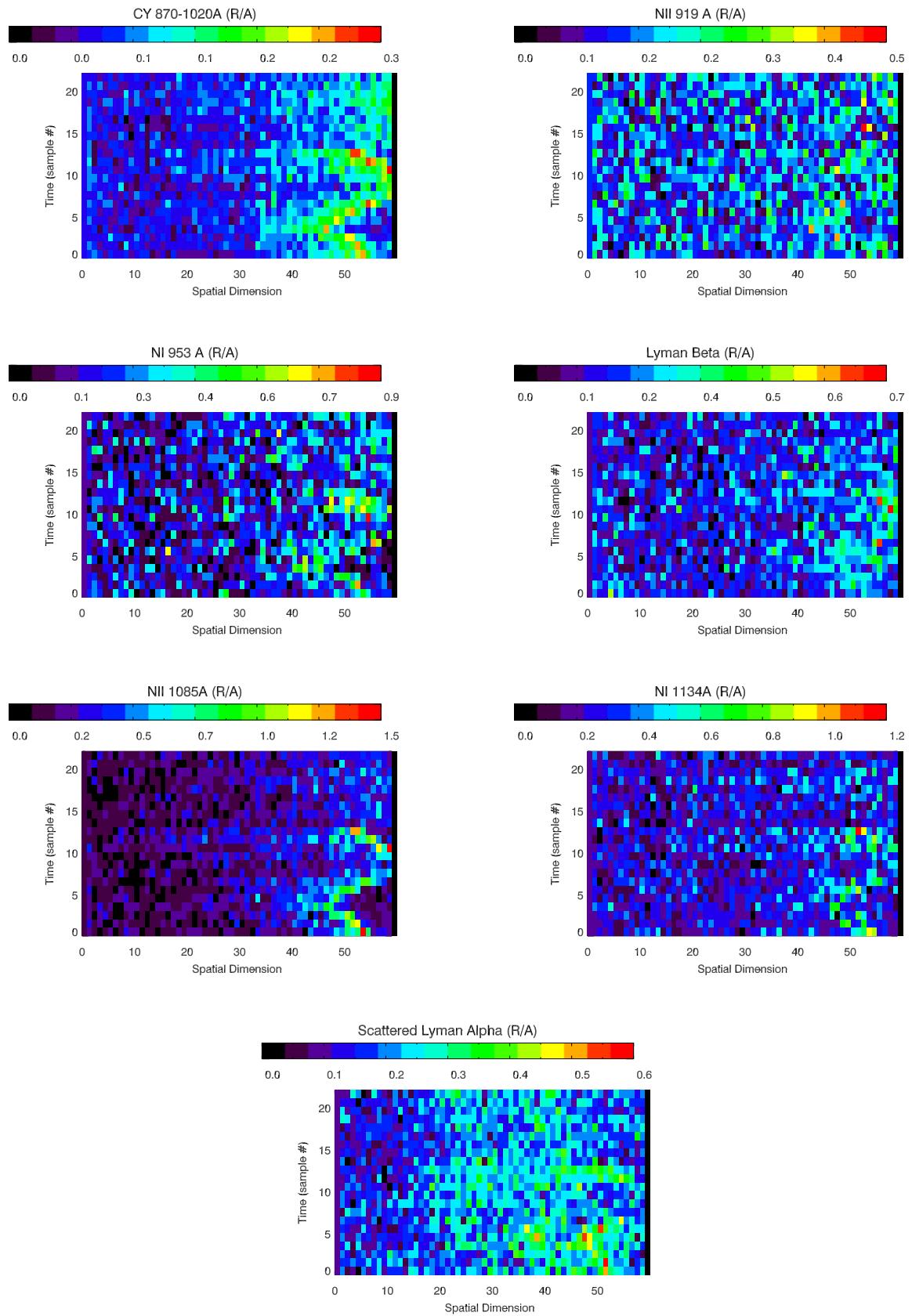


Figure 763: Panel of 7 detector images

FUV2013_254_23_21_48_UVIS_197TI_EUVFUV001_ISS

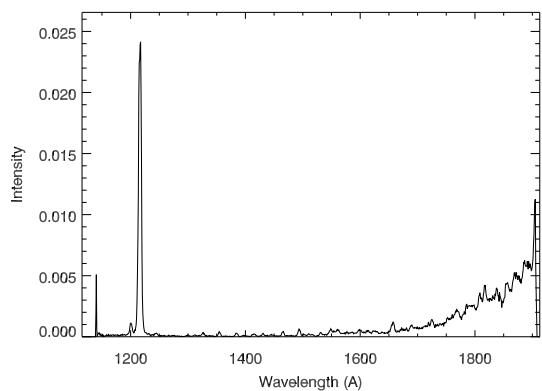


Figure 764: Spectra

body phase angle (deg): 83.4
distance (km): 107046.
Lon sub-s/c (180E): 55.0
Lat sub-s/c: 67.6
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 590

Figure 765: Geometry data

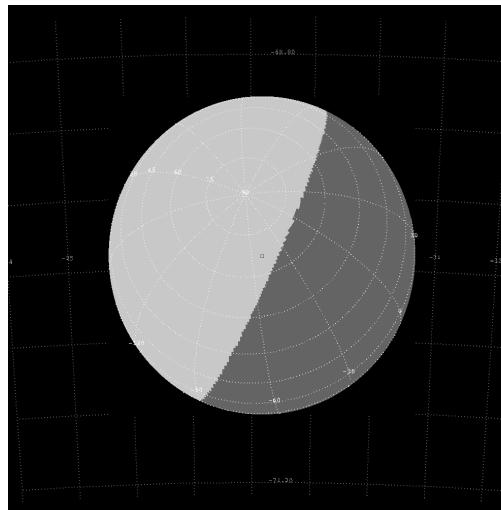


Figure 766: Frame 0

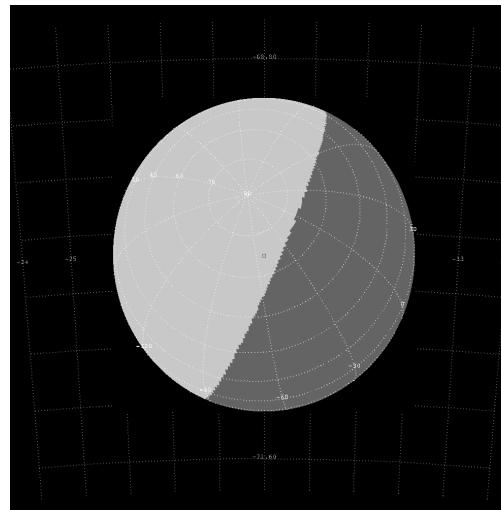


Figure 767: Frame 6

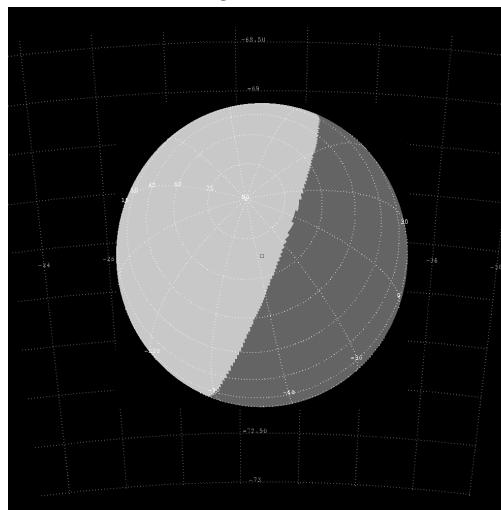


Figure 768: Frame 13

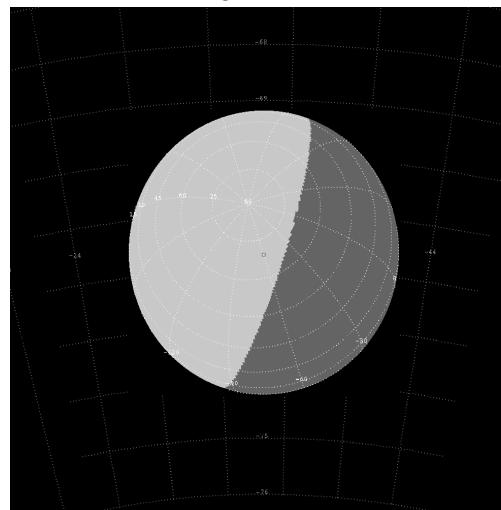


Figure 769: Frame 20

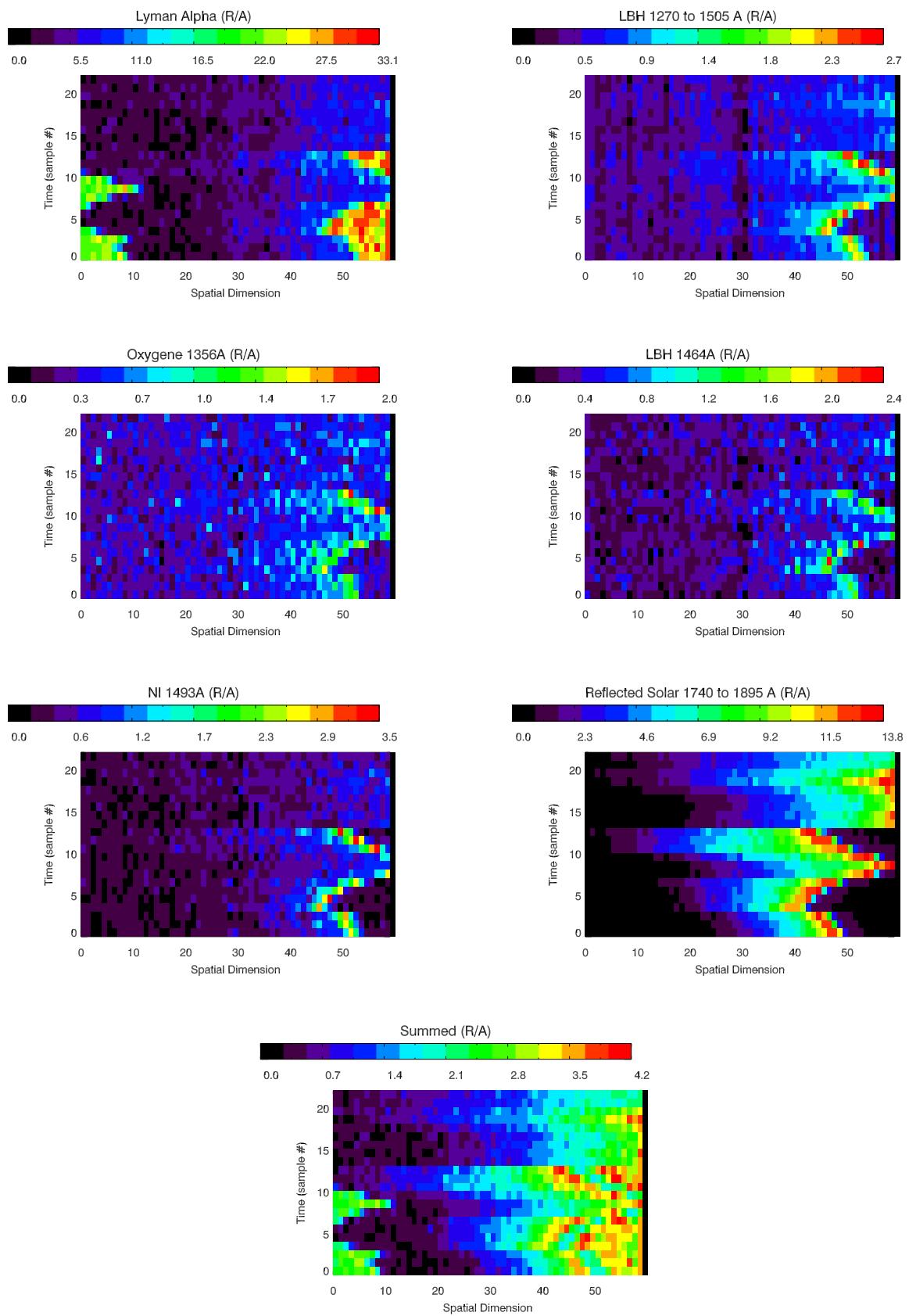


Figure 770: Panel of 7 detector images

EUV2013_255_10_22_53_UVIS_197TI_EUVFUV002_PRIME

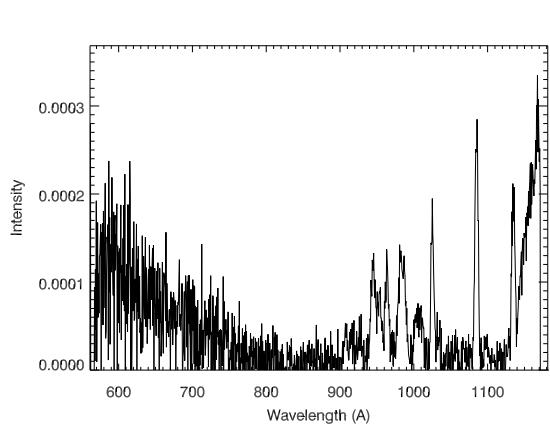


Figure 771: Spectra

body phase angle (deg): 99.4
distance (km): 111140.
Lon sub-s/c (180E): 250.2
Lat sub-s/c: -70.2
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 1200

Figure 772: Geometry data

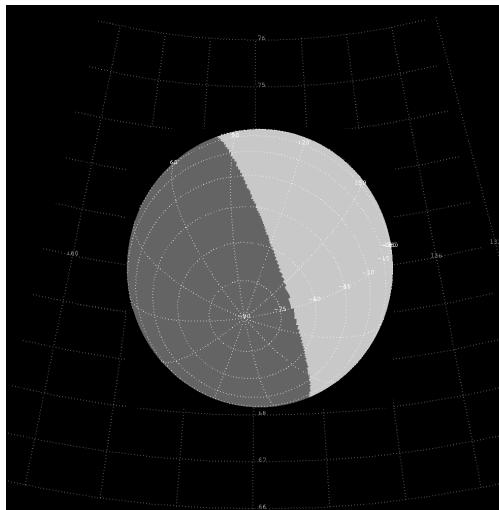


Figure 773: Frame 0

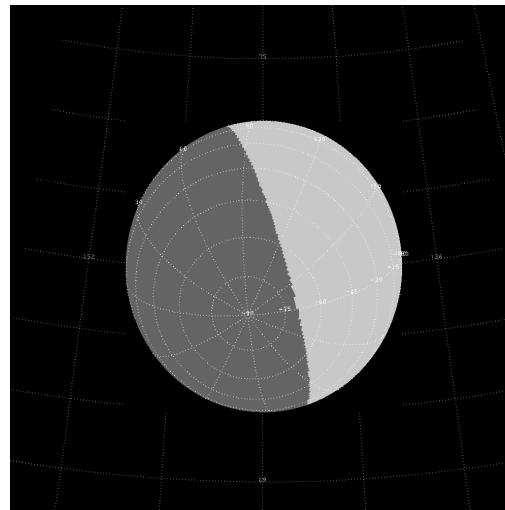


Figure 774: Frame 3

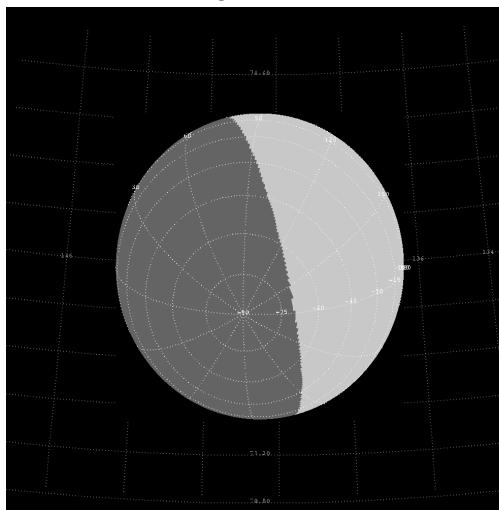


Figure 775: Frame 9

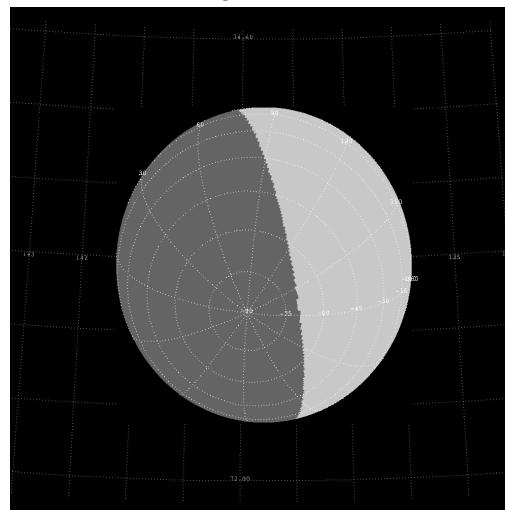


Figure 776: Frame 17

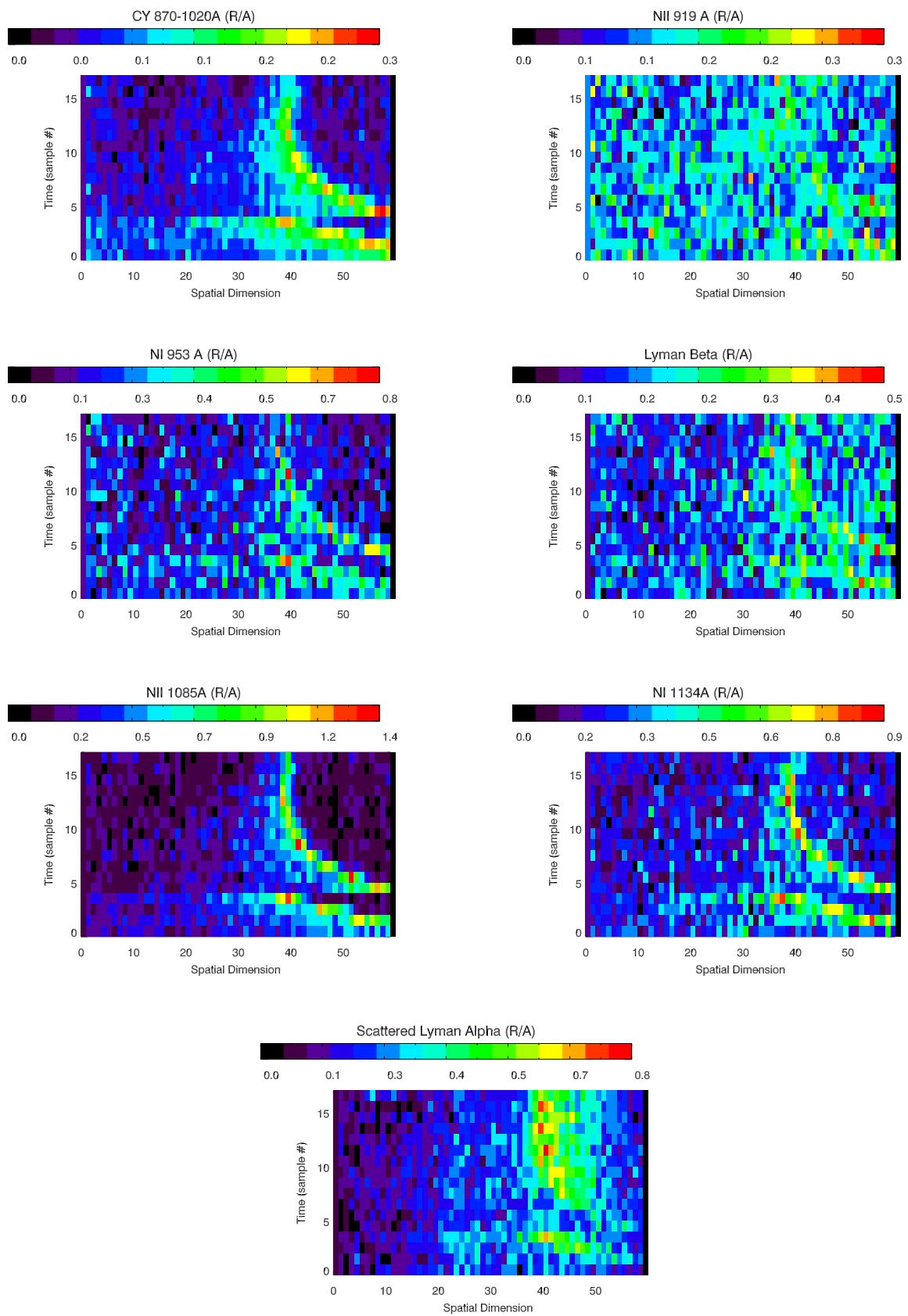


Figure 777: Panel of 7 detector images

FUV2013_255_10_22_53_UVIS_197TI_EUVFUV002_PRIME

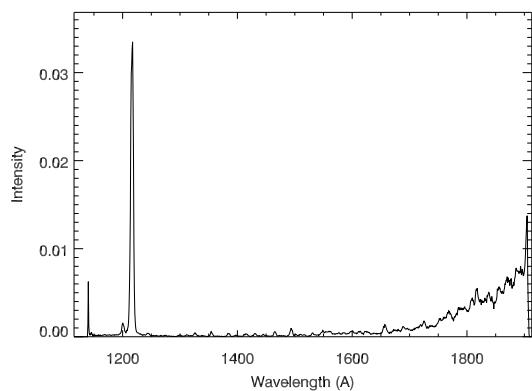


Figure 778: Spectra

body phase angle (deg): 99.4
distance (km): 111140.
Lon sub-s/c (180E): 250.2
Lat sub-s/c: -70.2
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 1200

Figure 779: Geometry data

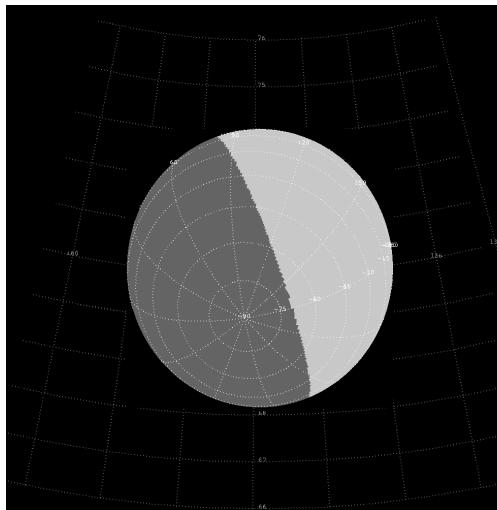


Figure 780: Frame 0

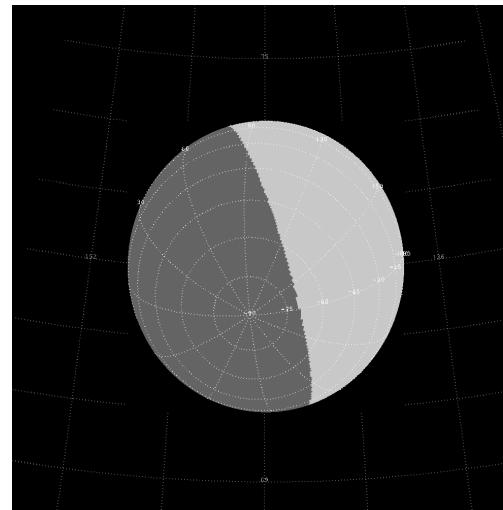


Figure 781: Frame 3

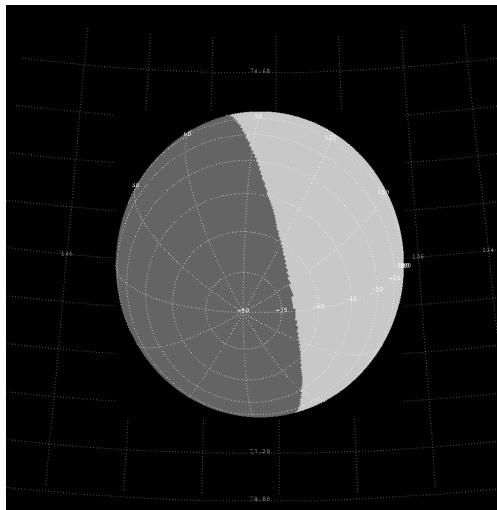


Figure 782: Frame 9

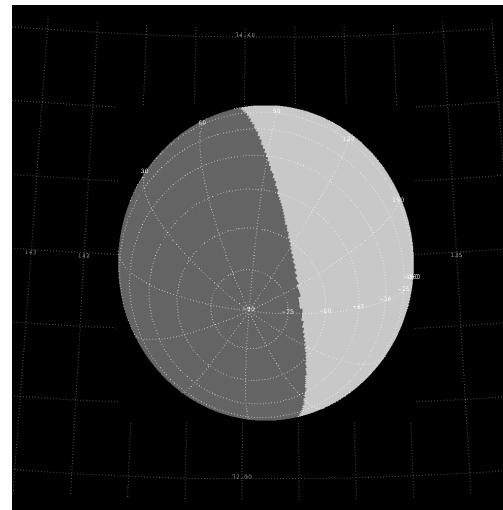


Figure 783: Frame 17

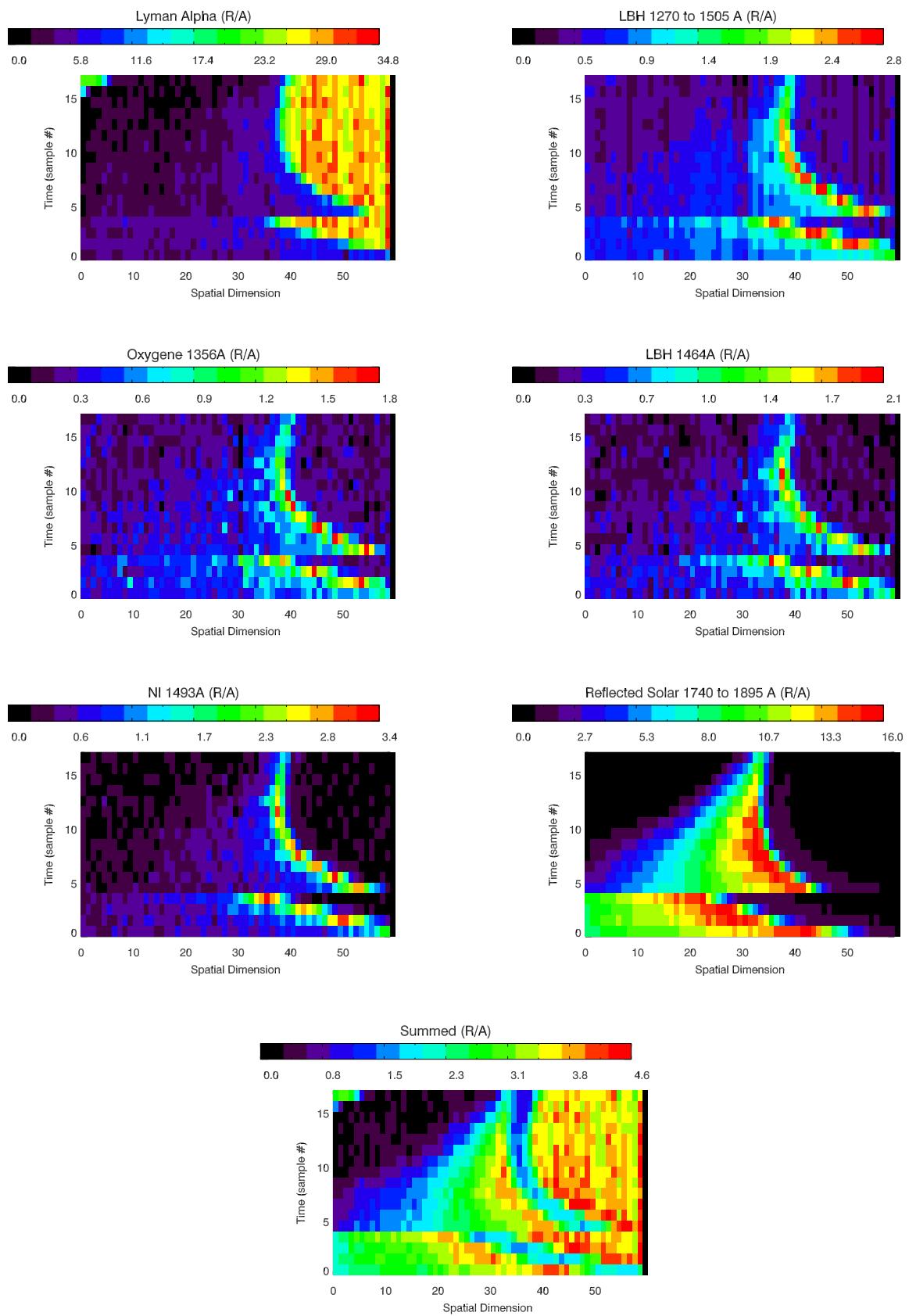


Figure 784: Panel of 7 detector images

Year 2014

Brief descriptif of observations:

- Day 097: Dayglow, faint nightglow
- Day 137: Dayglow, atypical geometry
- Day 201: Only 2 samples, looking in the atmosphere. LBH signal
- Day 265: Only 8 samples, night limb. Faint nightglow?
- Day 265-2: Dayglow, quite stable in time

EUV2014_097_16_10_17_UVIS_203TI_EUVFUV001_PRIME

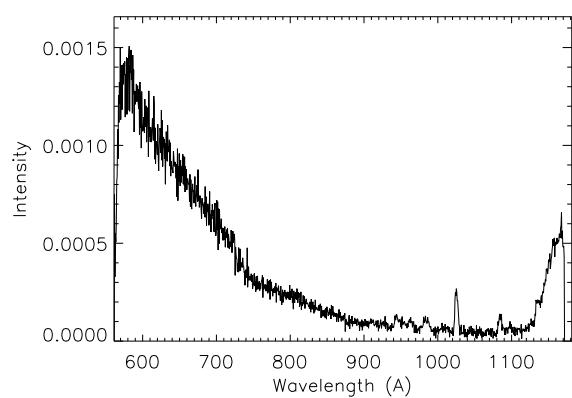


Figure 785: Spectra

body phase angle (deg): 150.0
distance (km): 111173.
Lon sub-s/c (180E): 338.7
Lat sub-s/c: -45.1
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 786: Geometry data

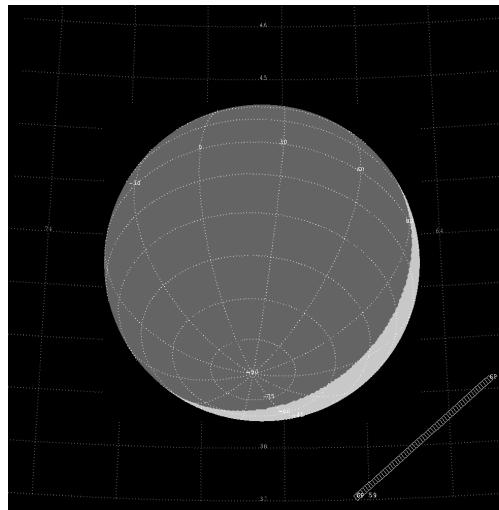


Figure 787: Frame 0

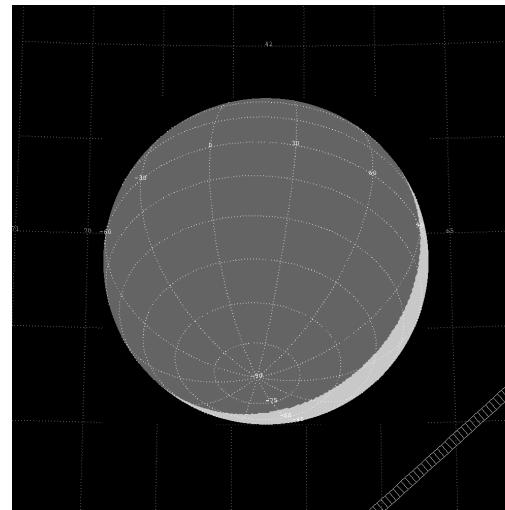


Figure 788: Frame 25

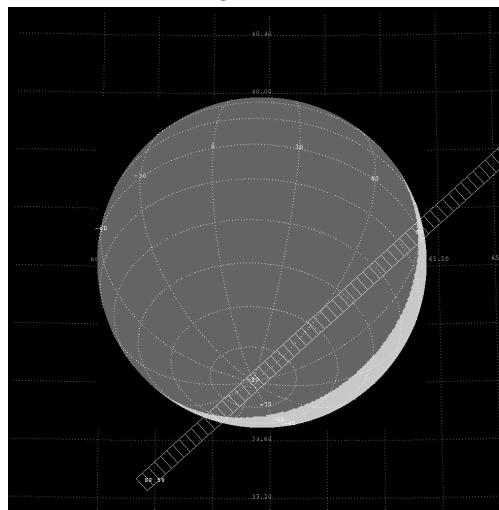


Figure 789: Frame 55

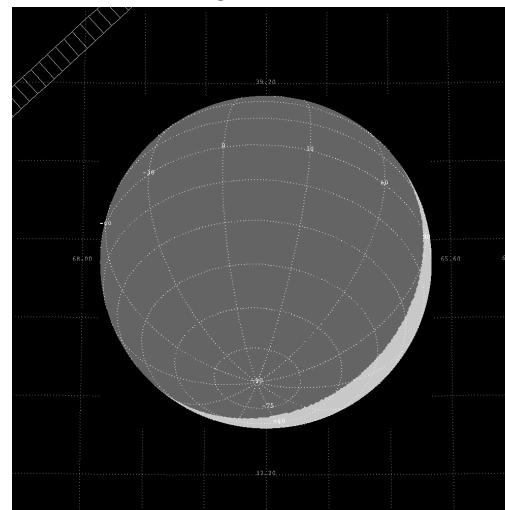


Figure 790: Frame 85

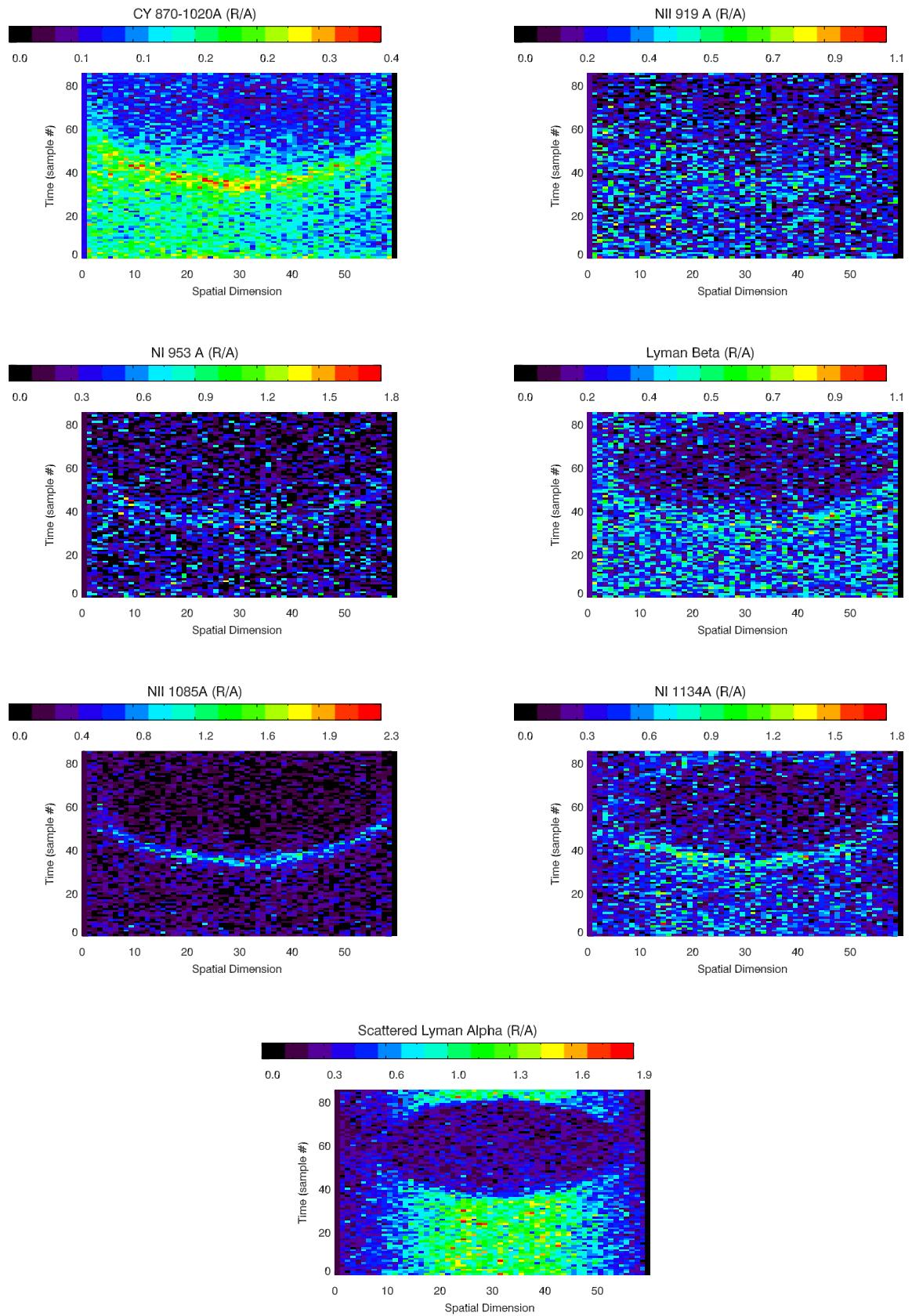


Figure 791: Panel of 7 detector images

FUV2014_097_16_10_17_UVIS_203TI_EUVFUV001_PRIME

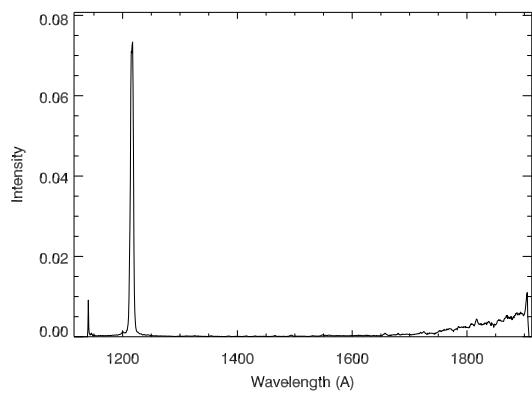


Figure 792: Spectra

body phase angle (deg): 150.0
distance (km): 111173.
Lon sub-s/c (180E): 338.7
Lat sub-s/c: -45.1
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 793: Geometry data

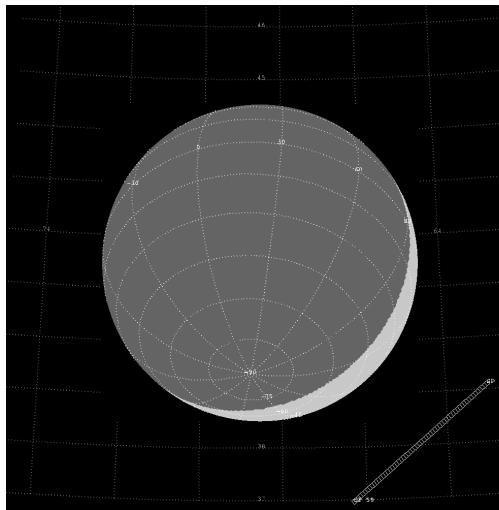


Figure 794: Frame 0

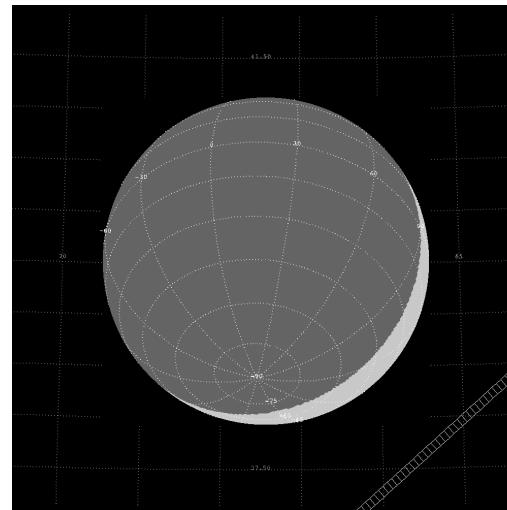


Figure 795: Frame 30

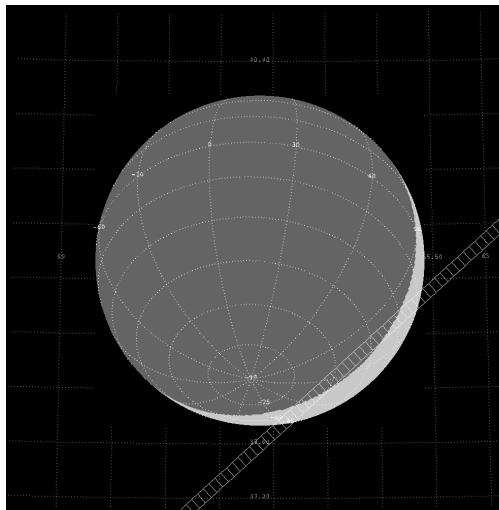


Figure 796: Frame 50

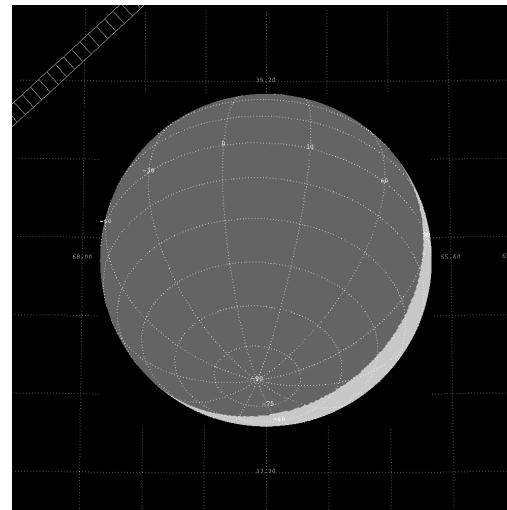


Figure 797: Frame 85

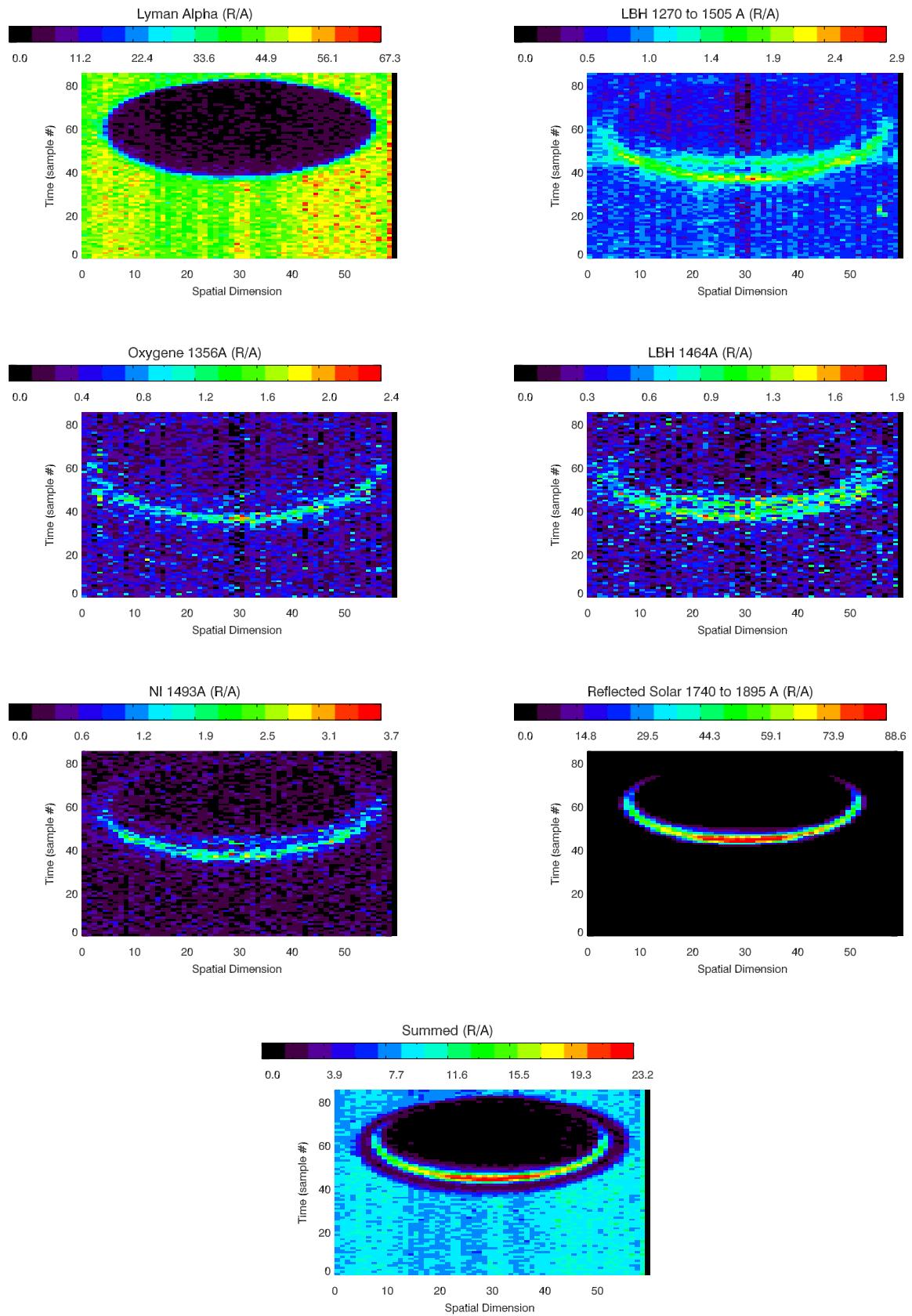


Figure 798: Panel of 7 detector images

EUV2014_137_02_17_18_UVIS_204TI_EUVFUV001_PRIME

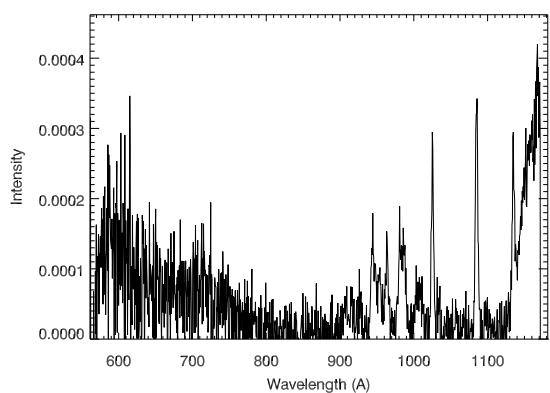
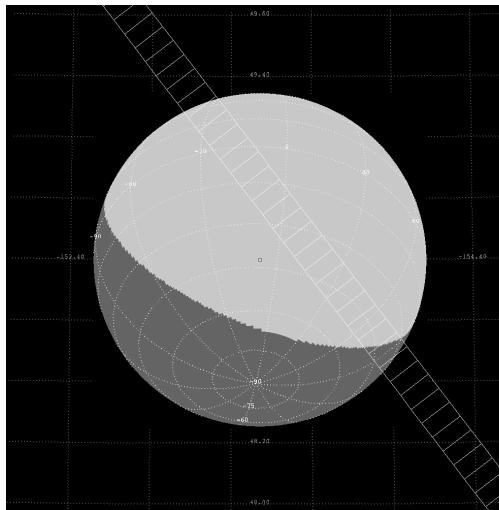


Figure 799: Spectra

body phase angle (deg): 67.7
distance (km): 223769.
Lon sub-s/c (180E): 10.6
Lat sub-s/c: -42.9
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 800: Geometry data



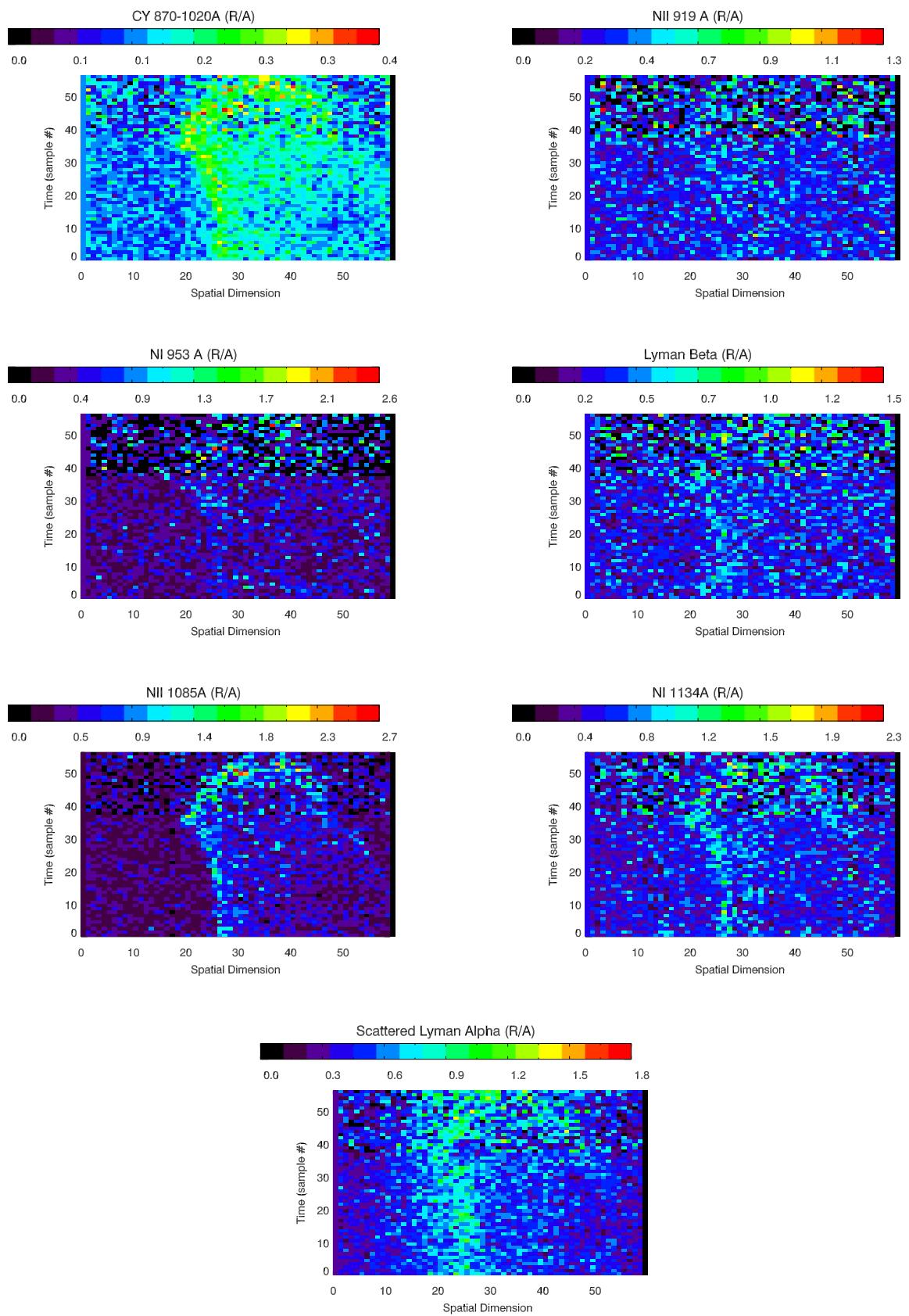


Figure 805: Panel of 7 detector images

FUV2014_137_02_17_18_UVIS_204TI_EUVFUV001_PRIME

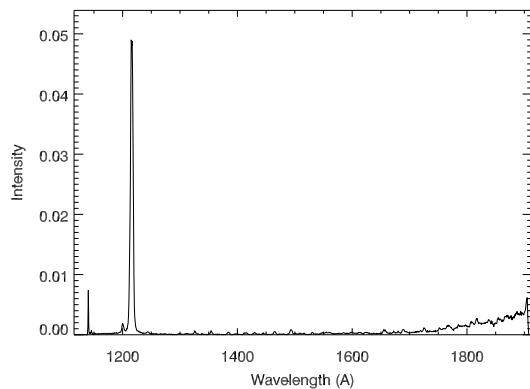


Figure 806: Spectra

body phase angle (deg): 67.7
distance (km): 223769.
Lon sub-s/c (180E): 10.6
Lat sub-s/c: -42.9
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 807: Geometry data

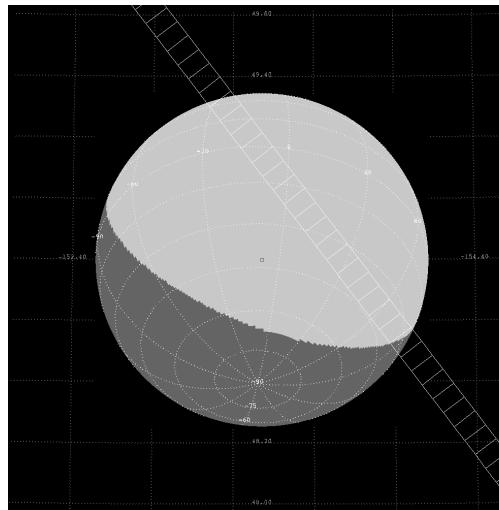


Figure 808: Frame 0

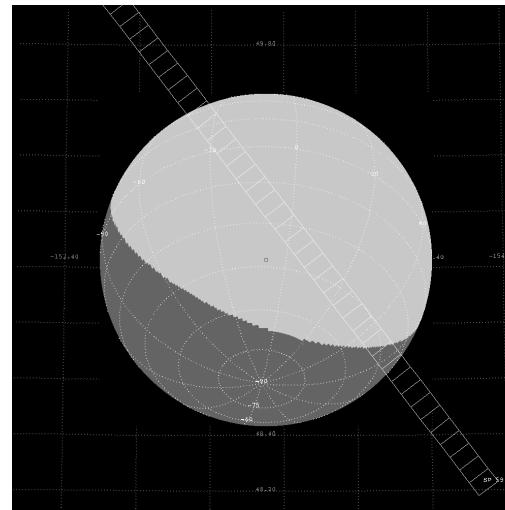


Figure 809: Frame 15

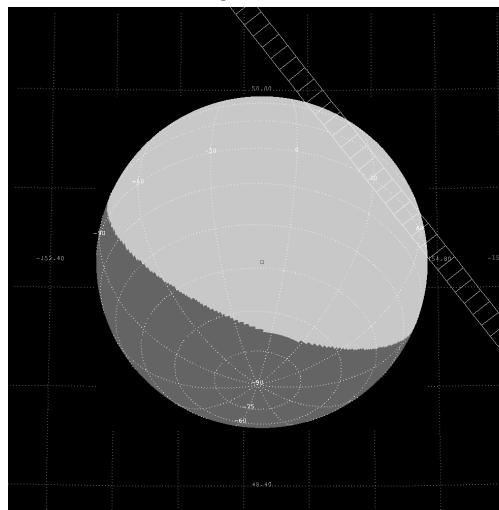


Figure 810: Frame 30

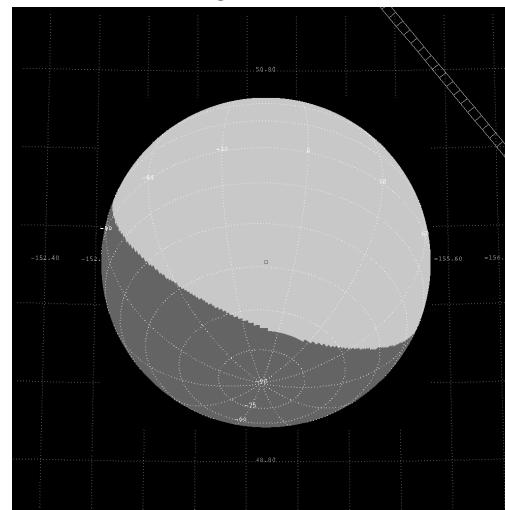


Figure 811: Frame 56

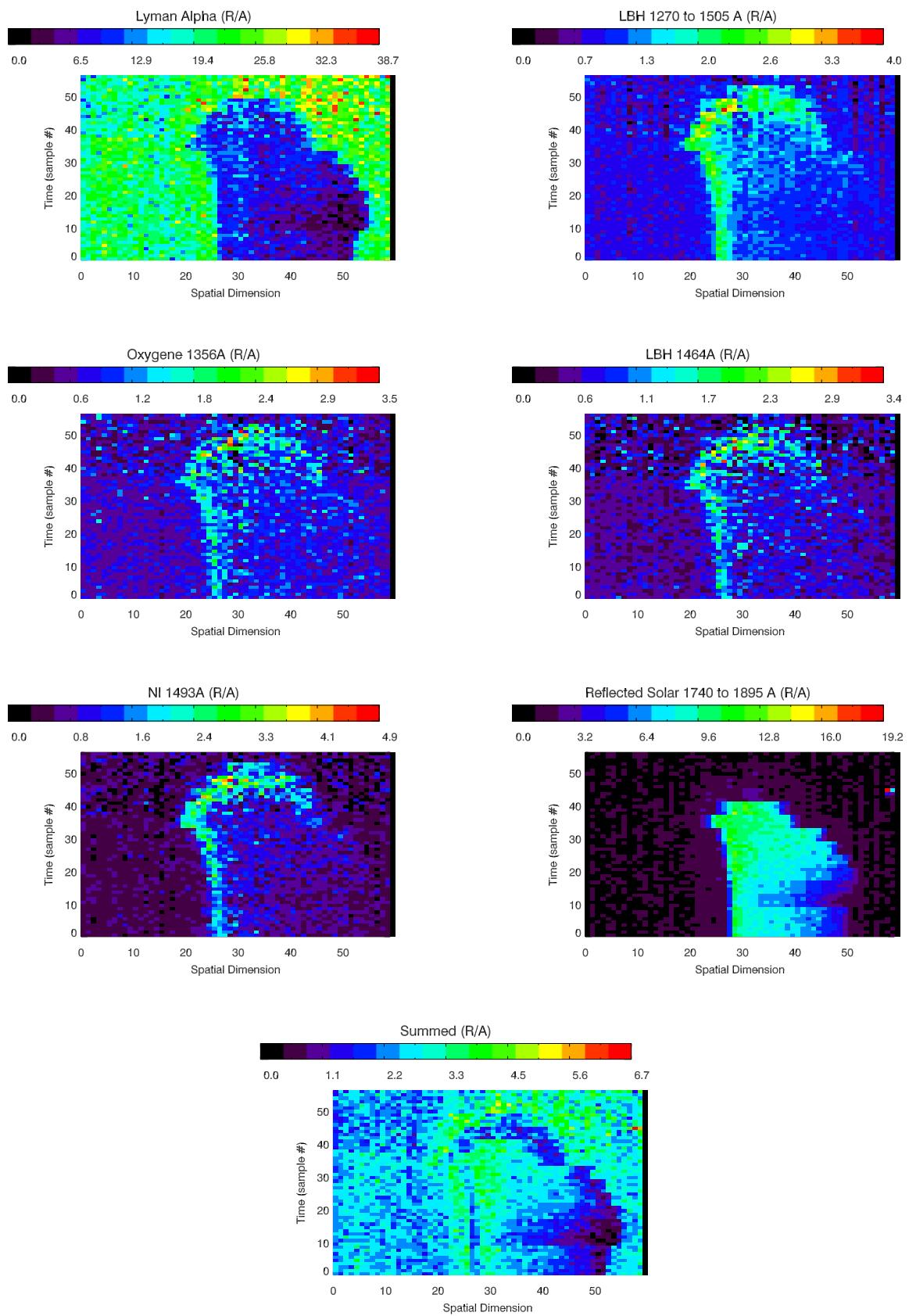


Figure 812: Panel of 7 detector images

EUV2014_201_11_19_10_UVIS_206TI_EUVFUV001_PRIME

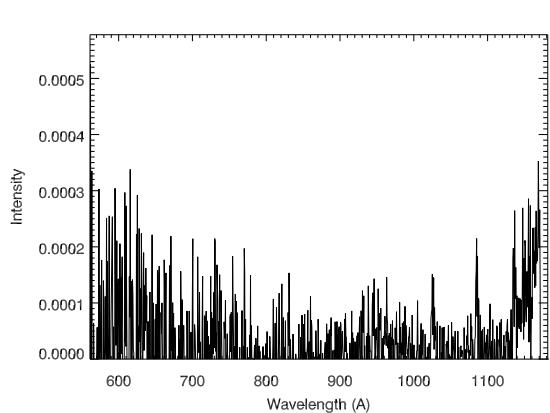


Figure 813: Spectra

body phase angle (deg): 127.0
distance (km): 15566.
Lon sub-s/c (180E): 196.8
Lat sub-s/c: 27.6
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 814: Geometry data

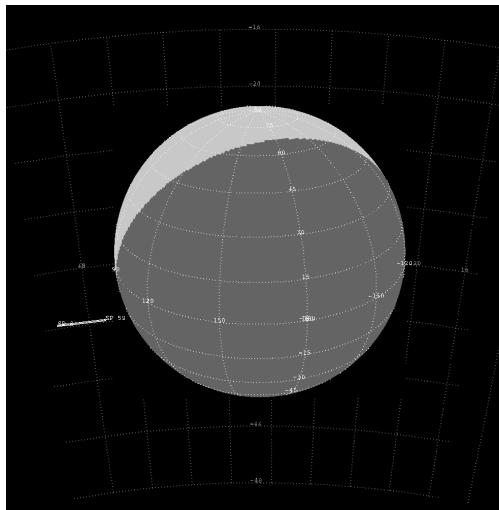


Figure 815: Frame 0

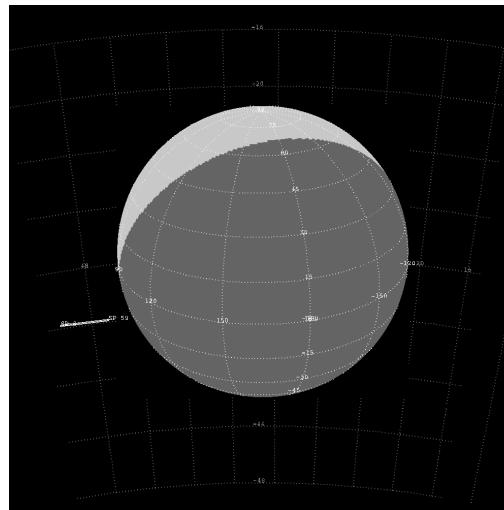


Figure 816: Frame 0

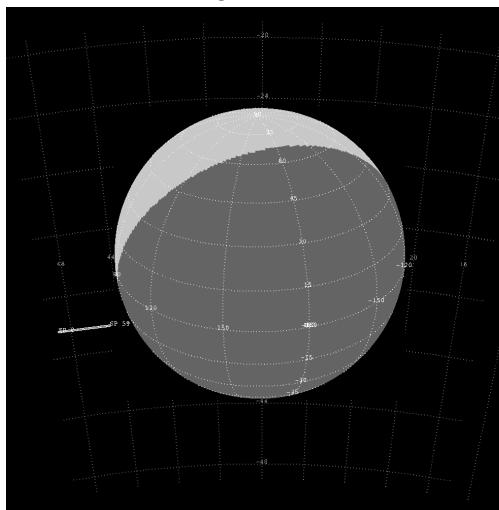


Figure 817: Frame 1

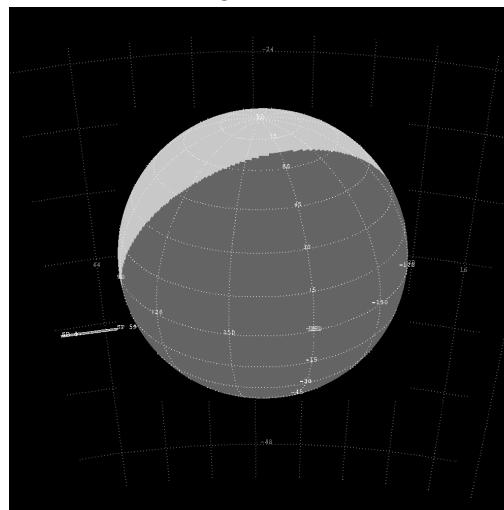


Figure 818: Frame 2

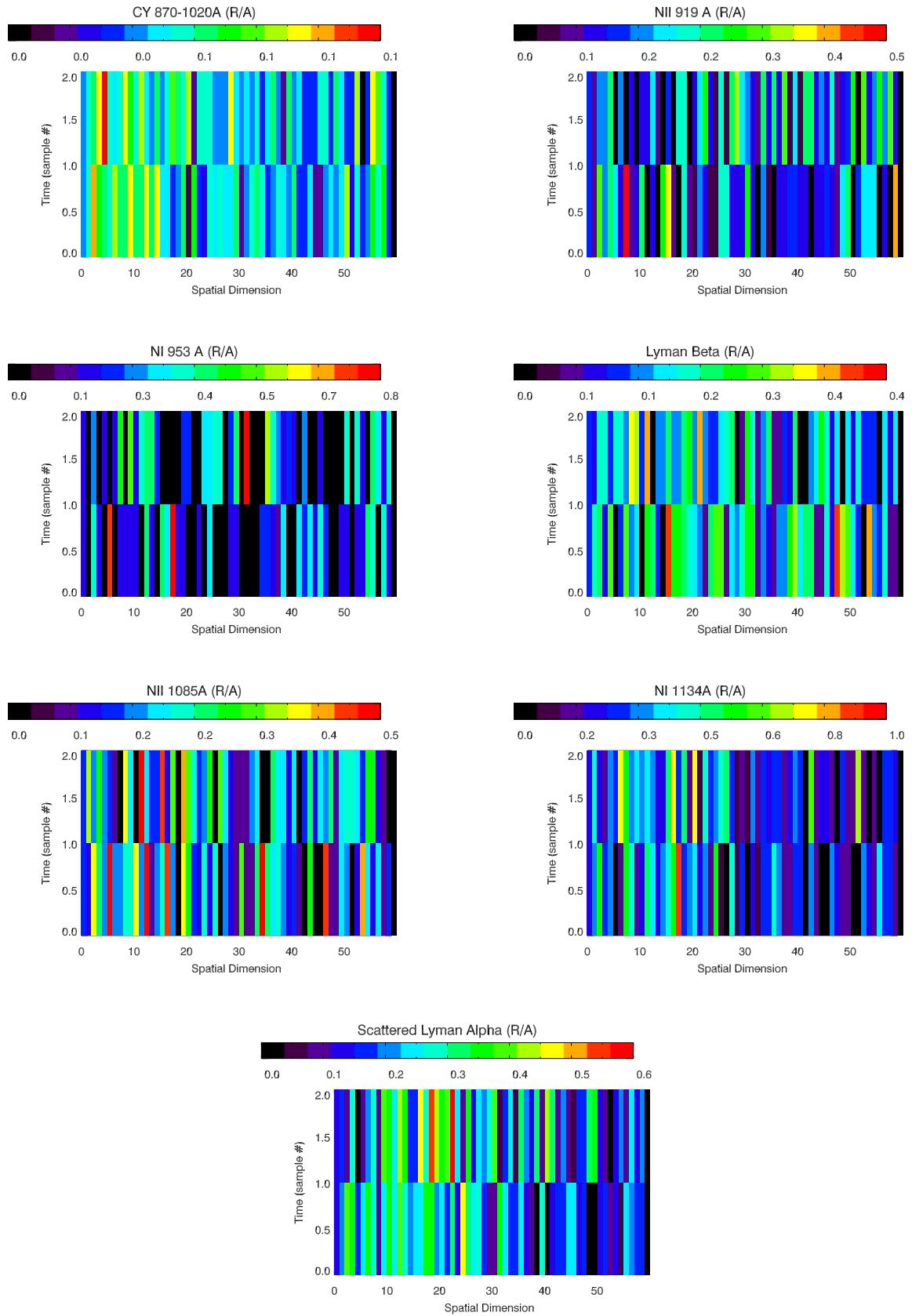


Figure 819: Panel of 7 detector images

FUV2014_201_11_19_10_UVIS_206TI_EUVFUV001_PRIME

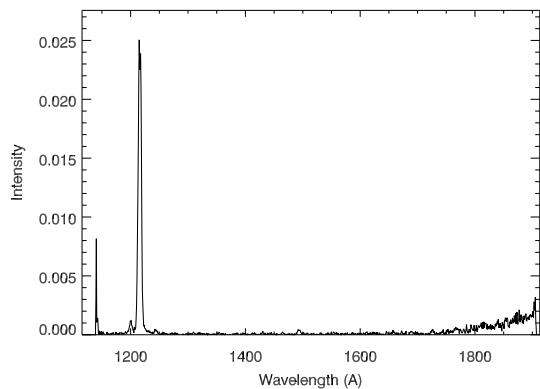


Figure 820: Spectra

body phase angle (deg): 127.0
distance (km): 15566.
Lon sub-s/c (180E): 196.8
Lat sub-s/c: 27.6
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 821: Geometry data

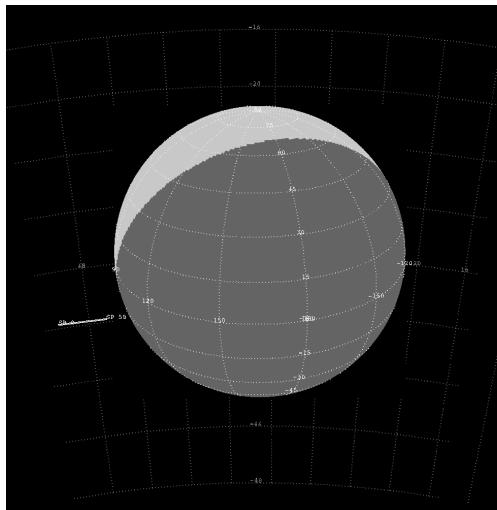


Figure 822: Frame 0

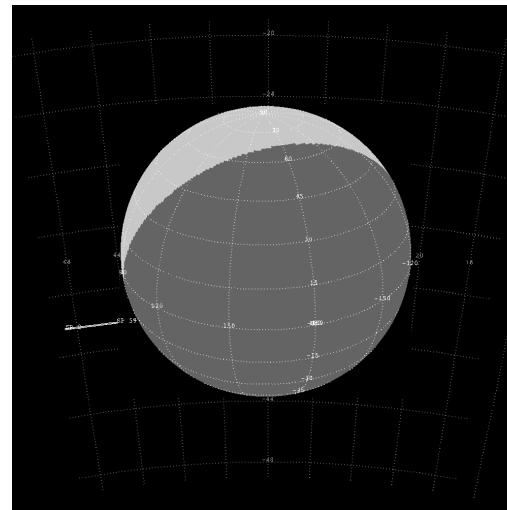


Figure 823: Frame 1

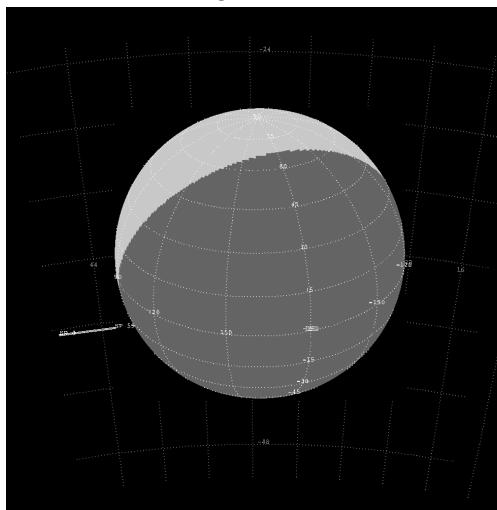


Figure 824: Frame 2

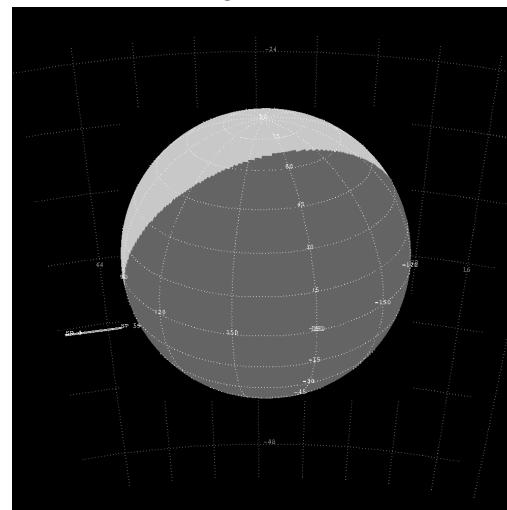


Figure 825: Frame 2

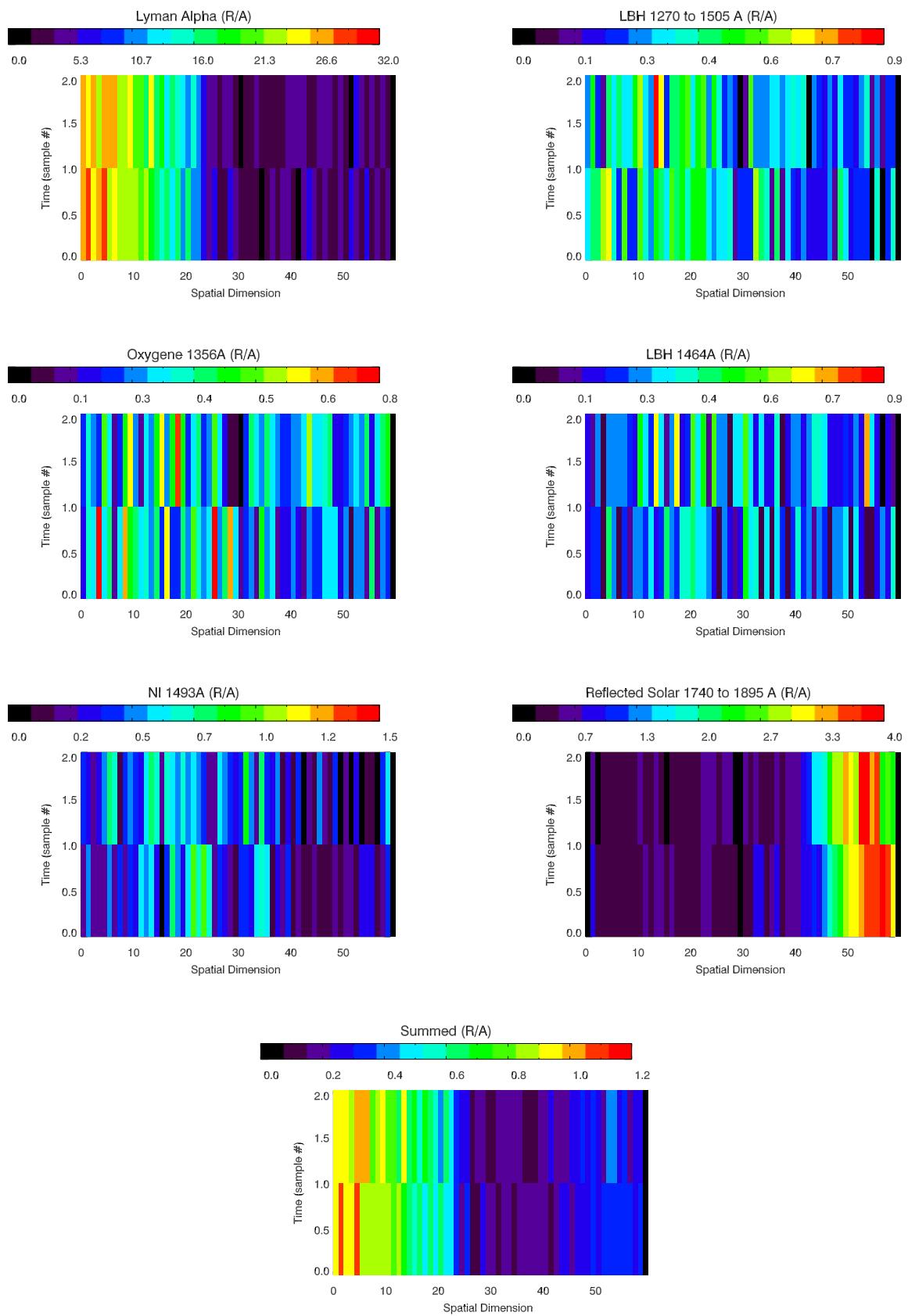


Figure 826: Panel of 7 detector images

EUV2014_265_02_31_22_UVIS_208TI_EUVFUV001_PRIME

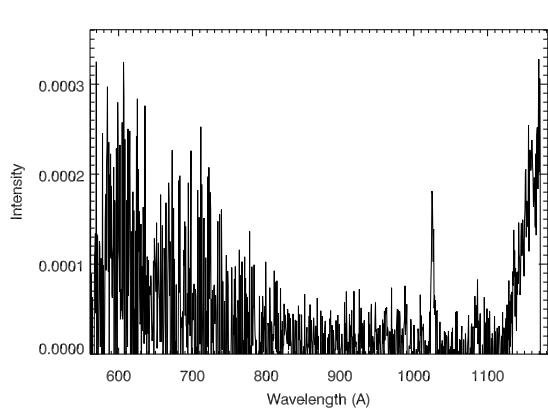


Figure 827: Spectra

body phase angle (deg): 70.8
distance (km): 51557.
Lon sub-s/c (180E): 20.6
Lat sub-s/c: -43.3
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 828: Geometry data

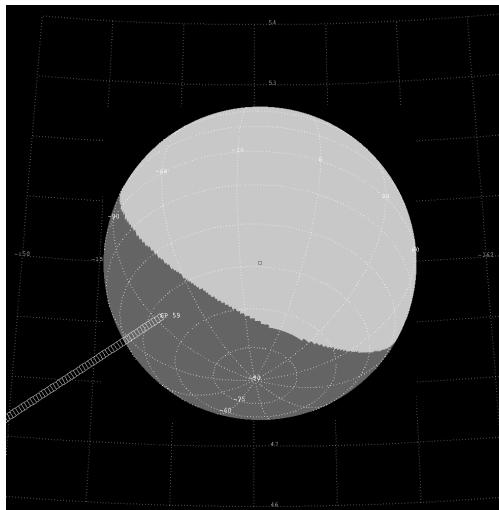


Figure 829: Frame 0

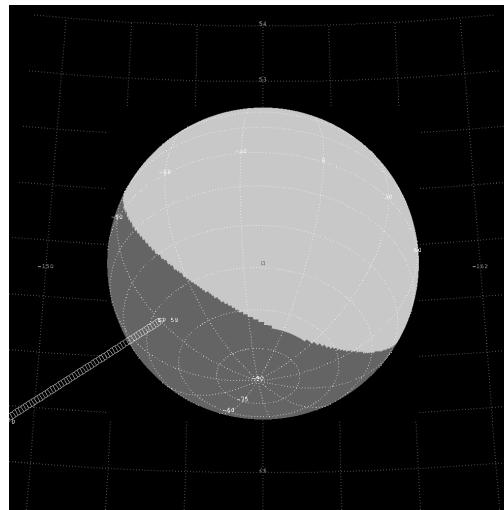


Figure 830: Frame 3

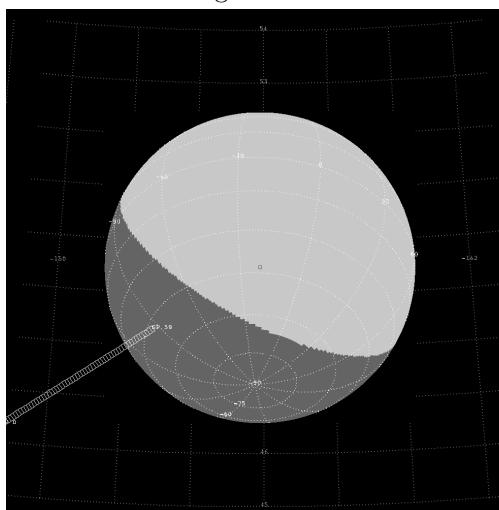


Figure 831: Frame 5

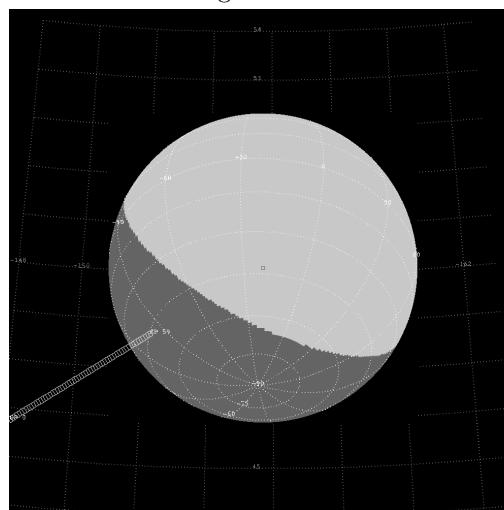


Figure 832: Frame 8

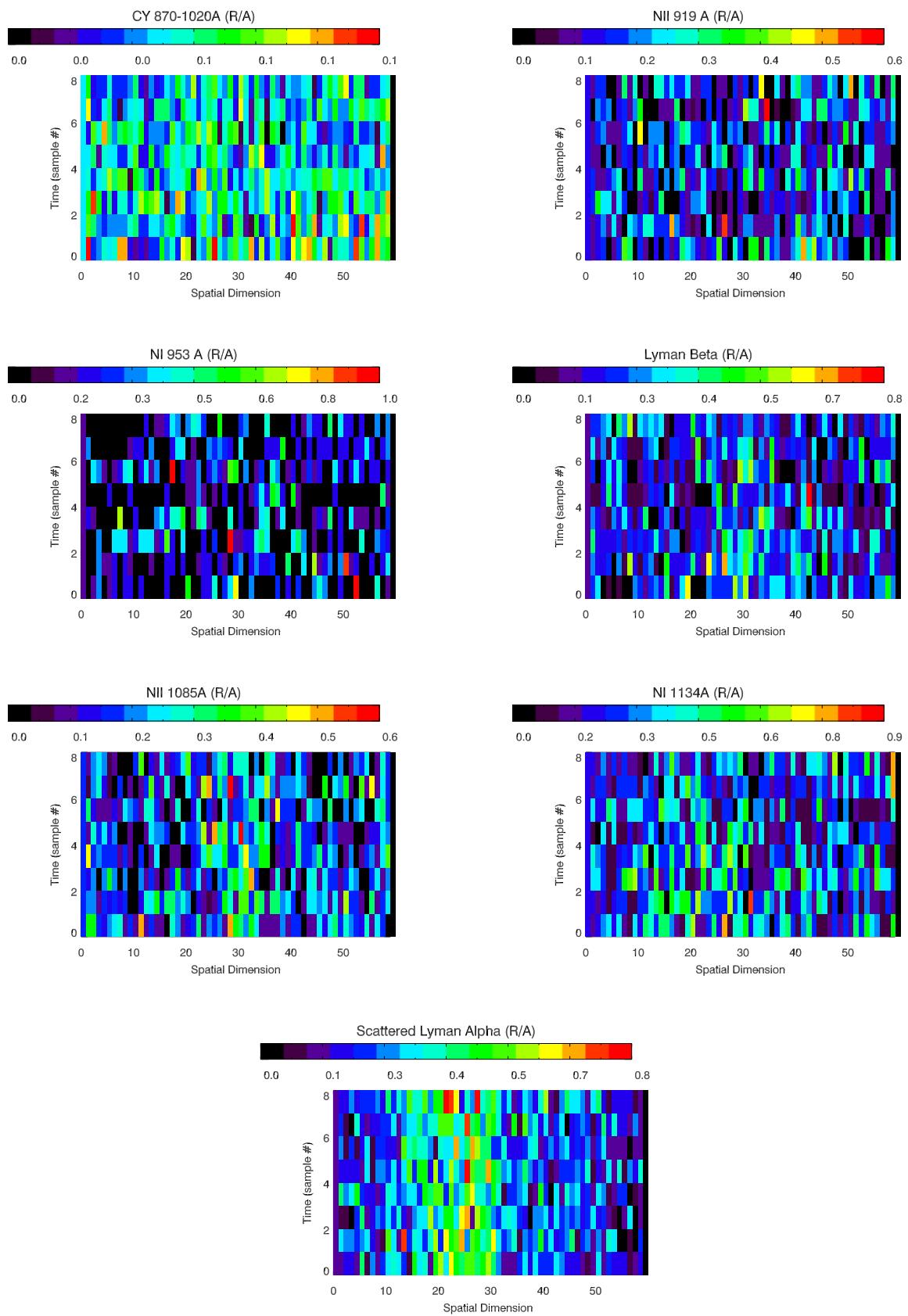


Figure 833: Panel of 7 detector images

FUV2014_265_02_31_22_UVIS_208TI_EUVFUV001_PRIME

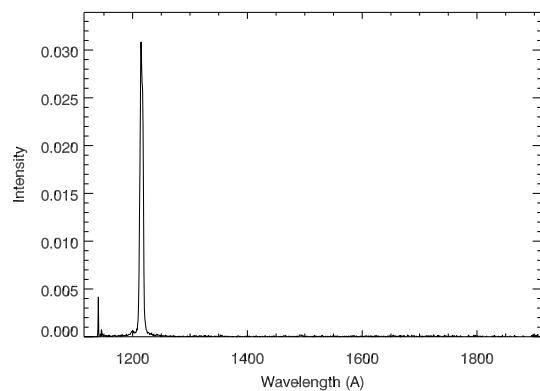


Figure 834: Spectra

body phase angle (deg): 70.8
distance (km): 51557.
Lon sub-s/c (180E): 20.6
Lat sub-s/c: -43.3
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 835: Geometry data

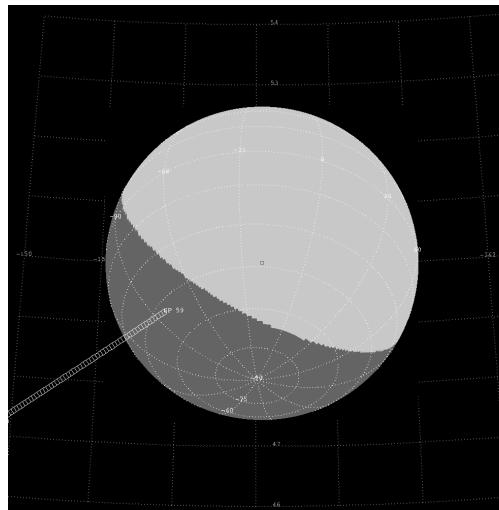


Figure 836: Frame 0

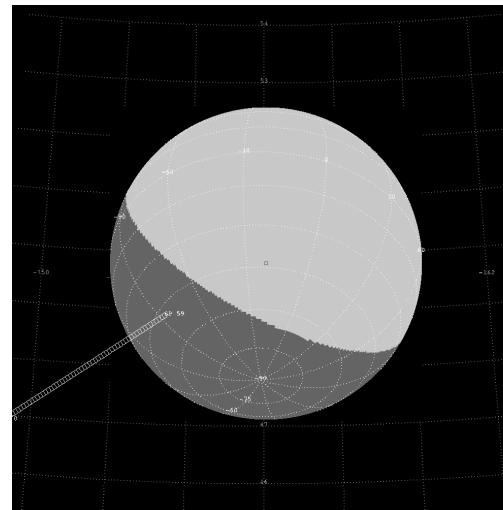


Figure 837: Frame 2

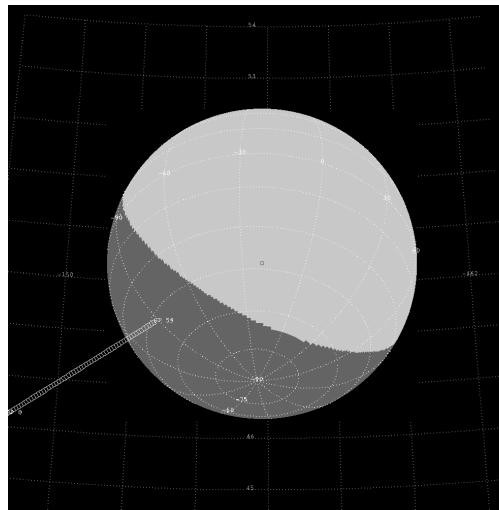


Figure 838: Frame 6

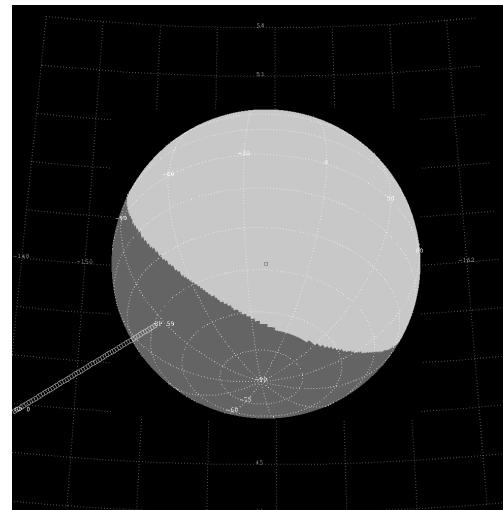


Figure 839: Frame 8

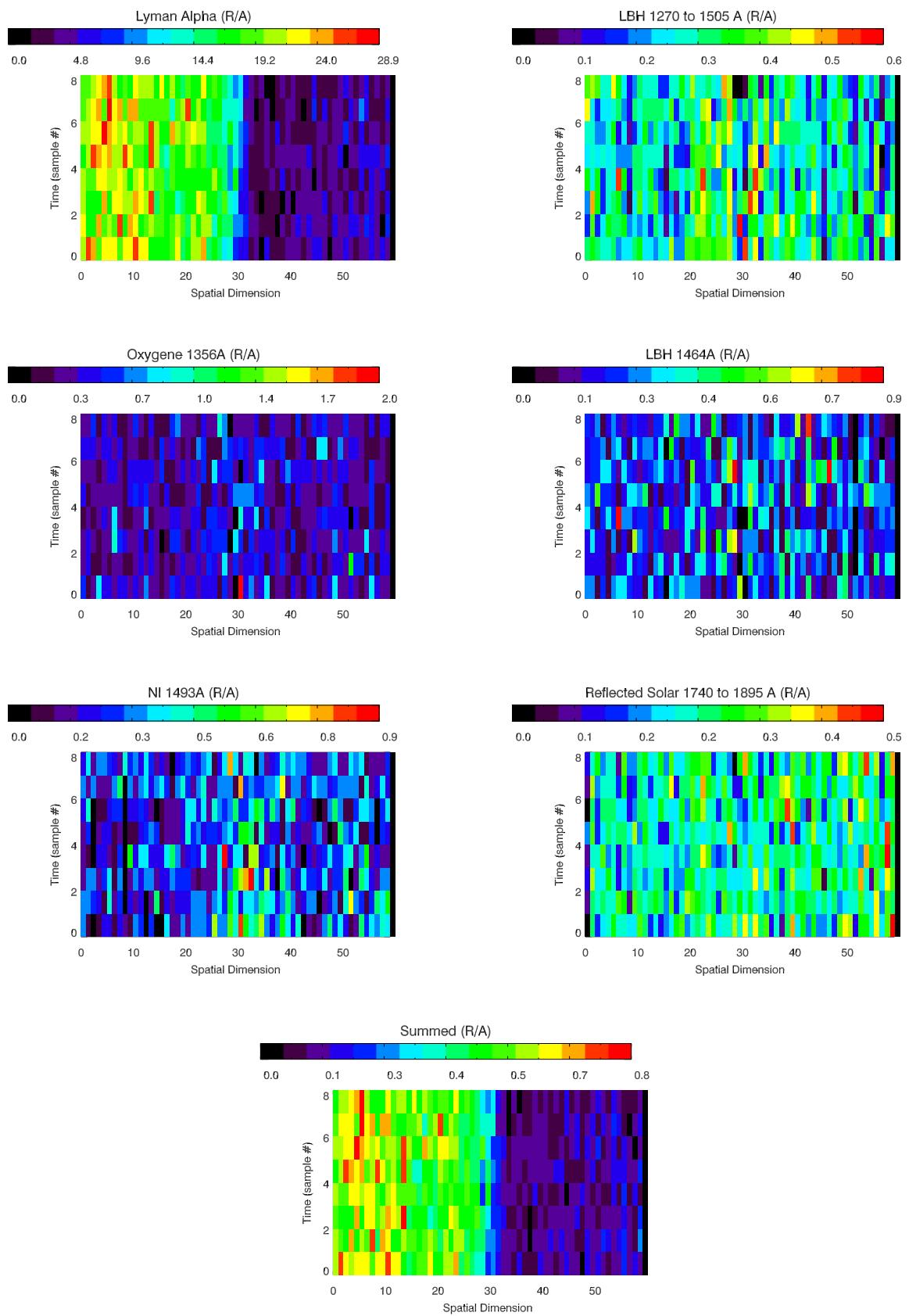


Figure 840: Panel of 7 detector images

EUV2014_265_11_15_21_UVIS_208TI_EUVFUV002_PRIME

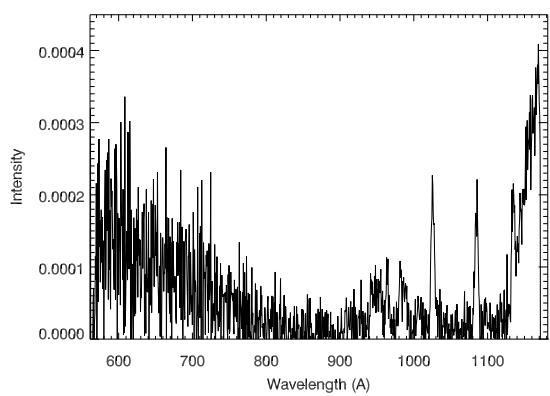


Figure 841: Spectra

body phase angle (deg): 110.9
distance (km): 126940.
Lon sub-s/c (180E): 208.5
Lat sub-s/c: 41.6
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 842: Geometry data

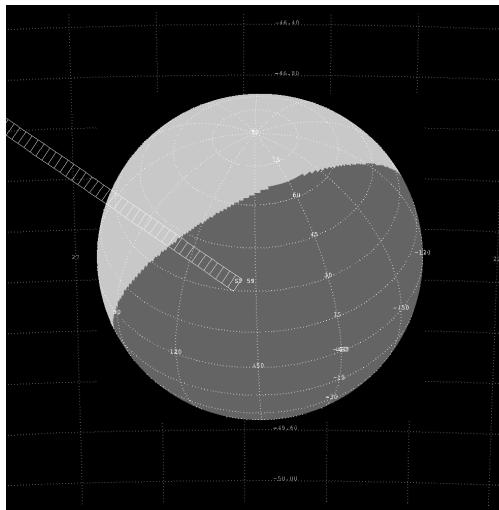


Figure 843: Frame 0

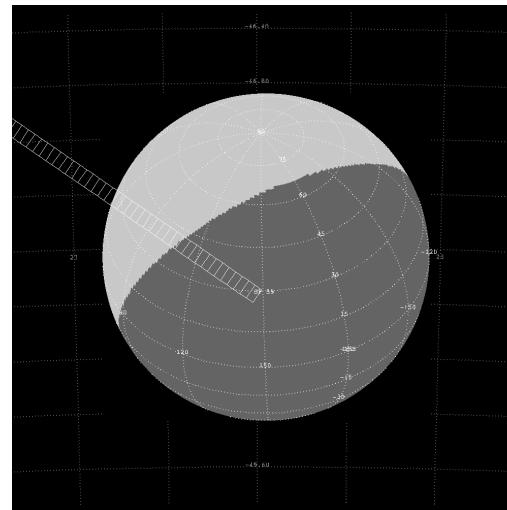


Figure 844: Frame 7

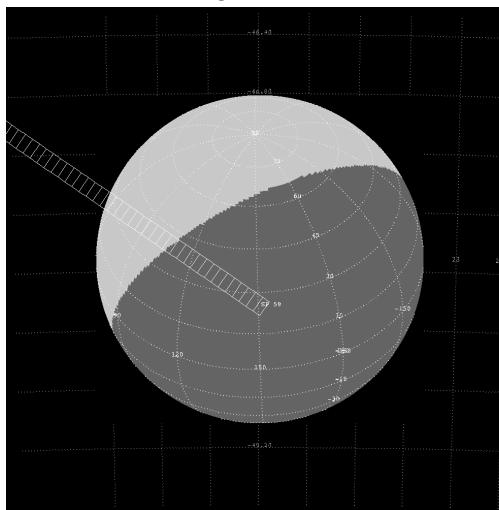


Figure 845: Frame 14

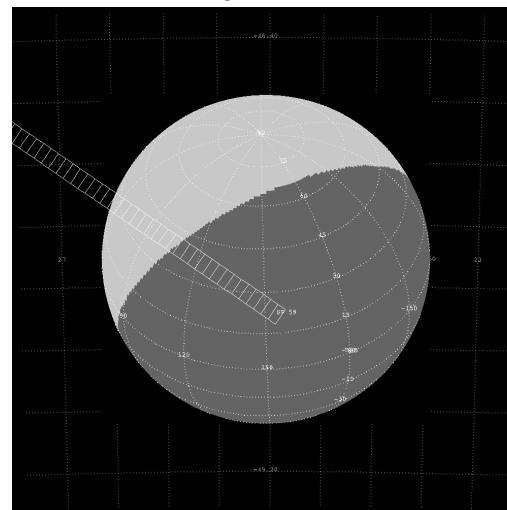


Figure 846: Frame 19

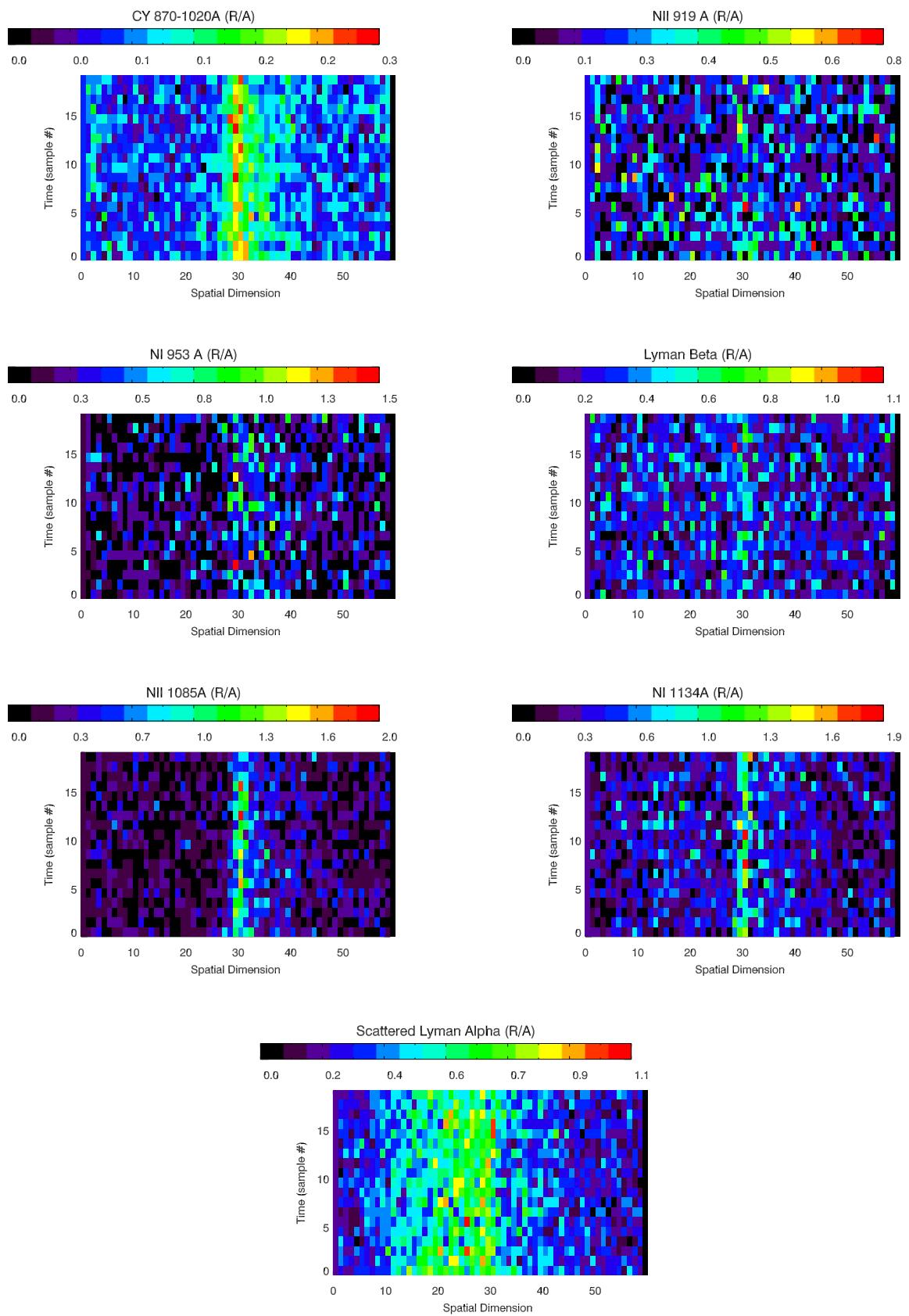


Figure 847: Panel of 7 detector images

FUV2014_265_11_15_21_UVIS_208TI_EUVFUV002_PRIME

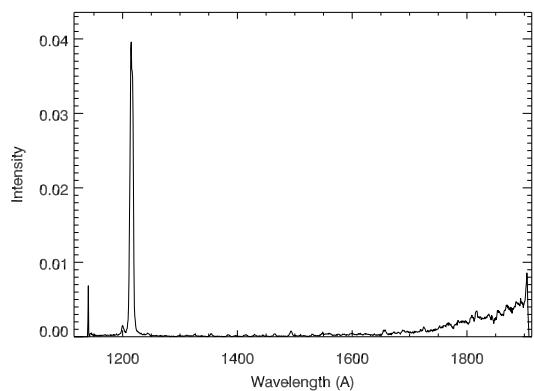


Figure 848: Spectra

body phase angle (deg): 110.9
distance (km): 126940.
Lon sub-s/c (180E): 208.5
Lat sub-s/c: 41.6
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 849: Geometry data

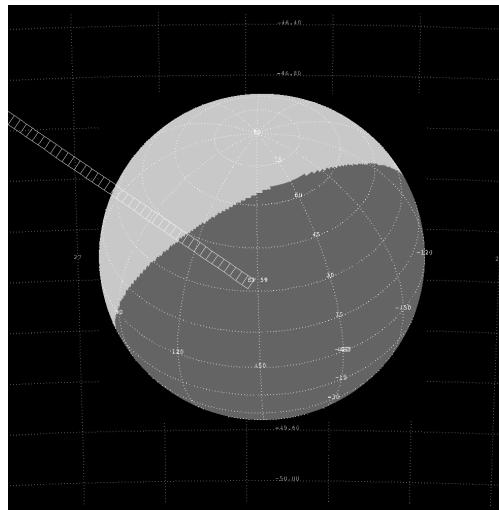


Figure 850: Frame 0

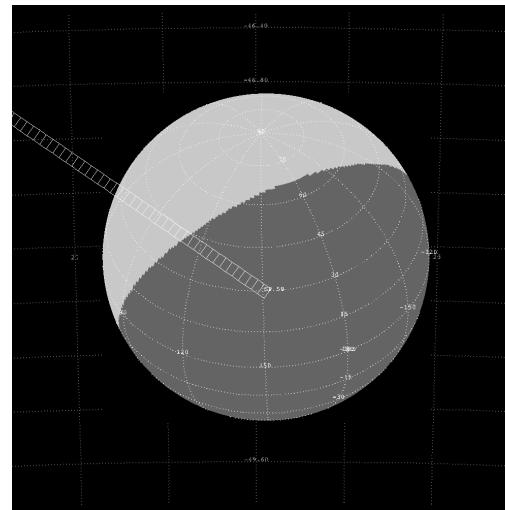


Figure 851: Frame 6

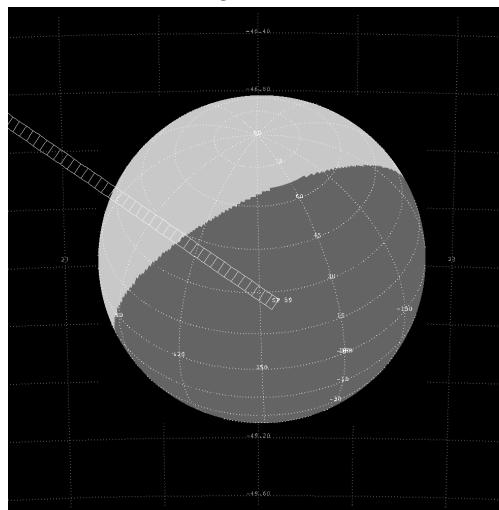


Figure 852: Frame 12

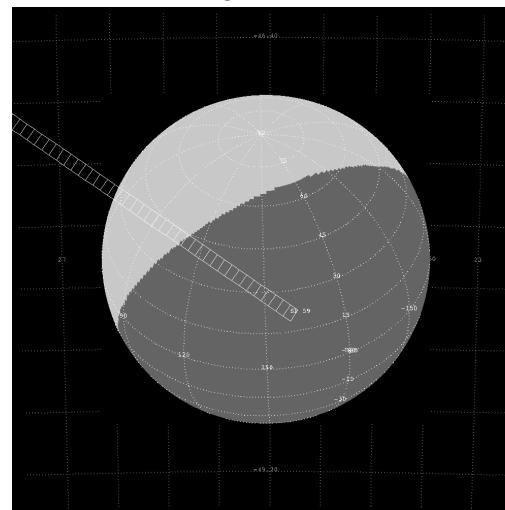


Figure 853: Frame 19

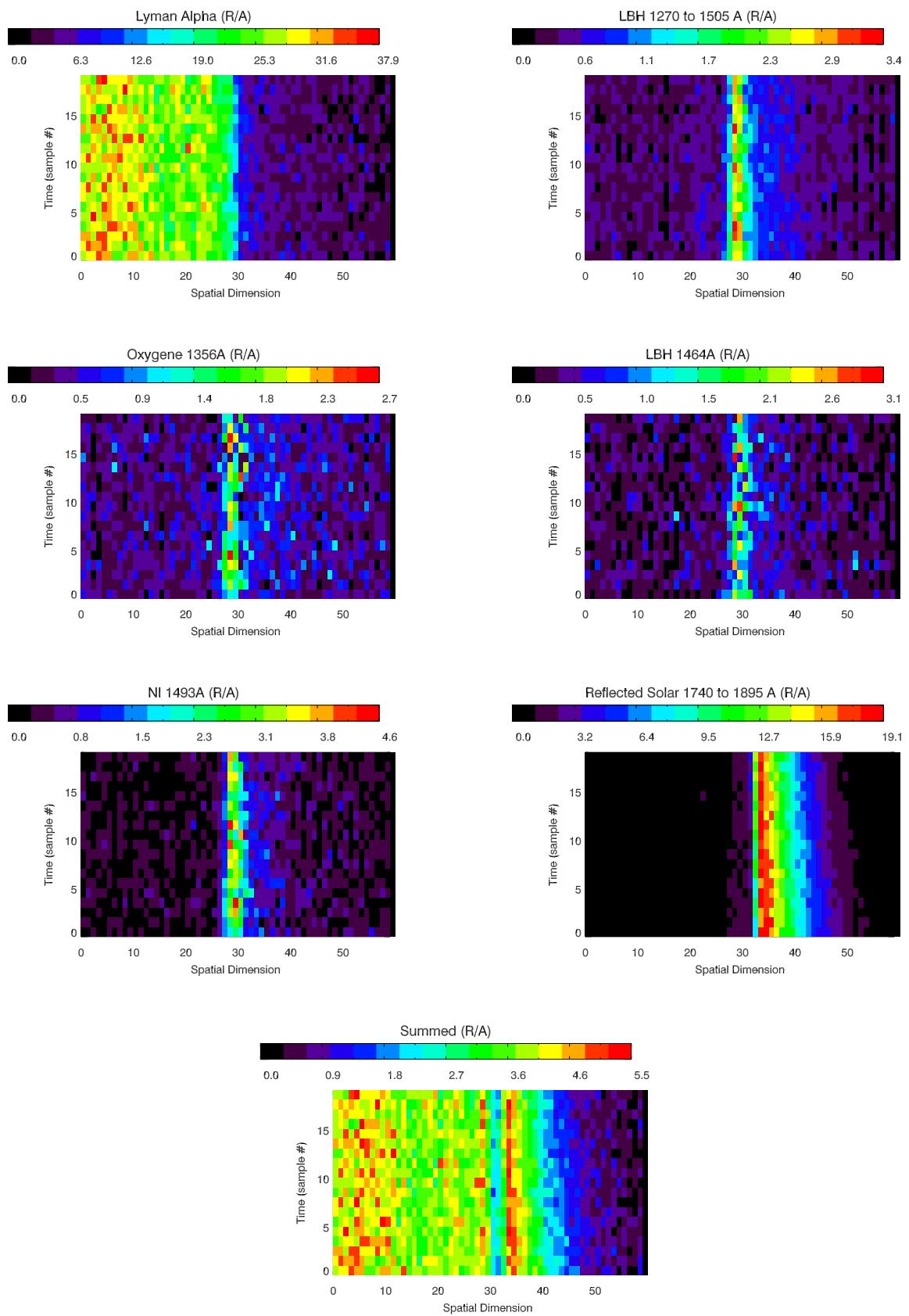


Figure 854: Panel of 7 detector images

Year 2015

Brief descriptif of observations:

- Day 043: Dayglow, no nightglow
- Day 043-2: Dayglow, no nightglow
- Day 317: Satellites in the background? Seen at all wavelength, even Lyman-Alpha

EUV2015_043_08_14_47_UVIS_212TI_EUVFUV001_PRIME

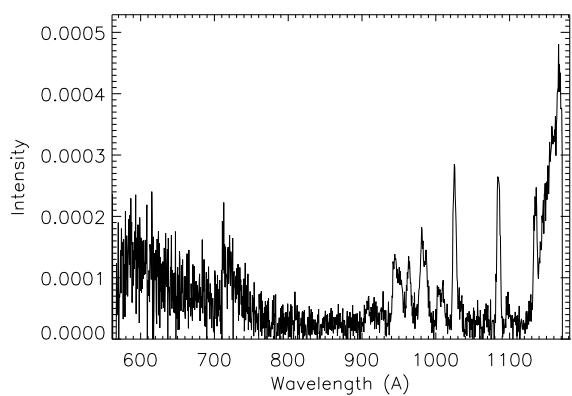


Figure 855: Spectra

body phase angle (deg): 44.7
distance (km): 108646.
Lon sub-s/c (180E): 11.7
Lat sub-s/c: -12.9
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 856: Geometry data

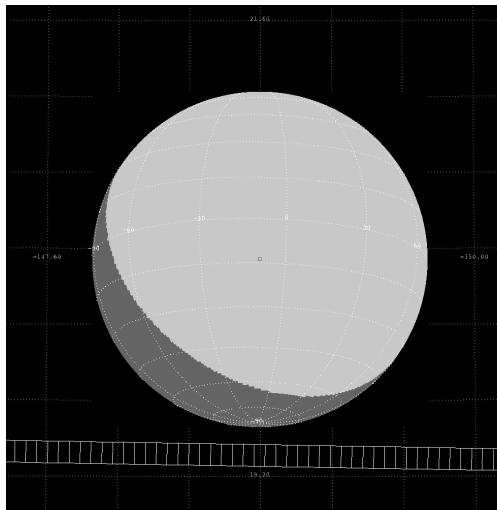


Figure 857: Frame 5

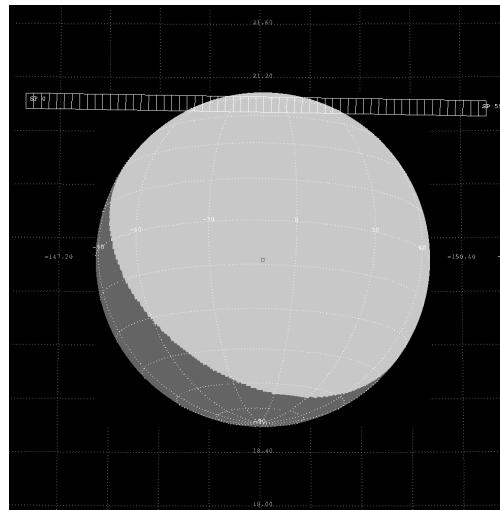


Figure 858: Frame 35

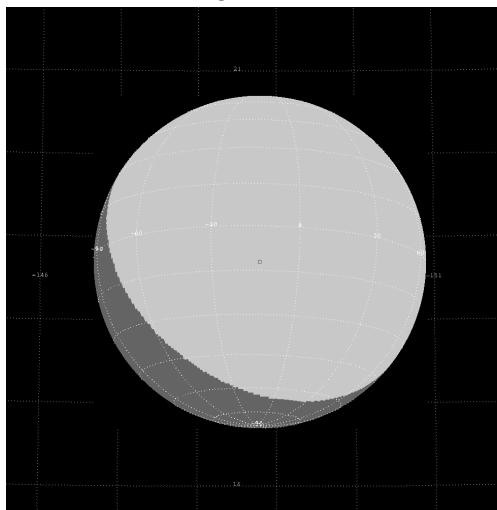


Figure 859: Frame 65

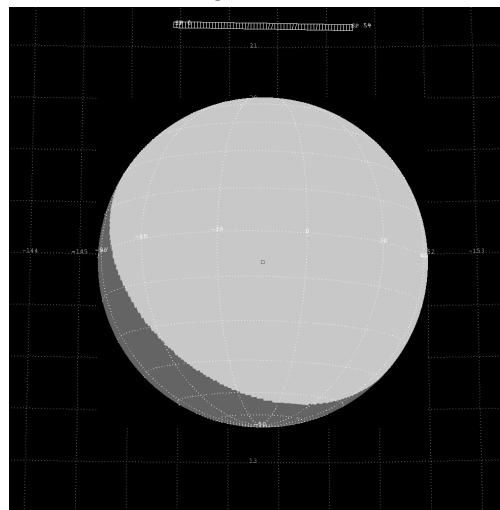


Figure 860: Frame 84

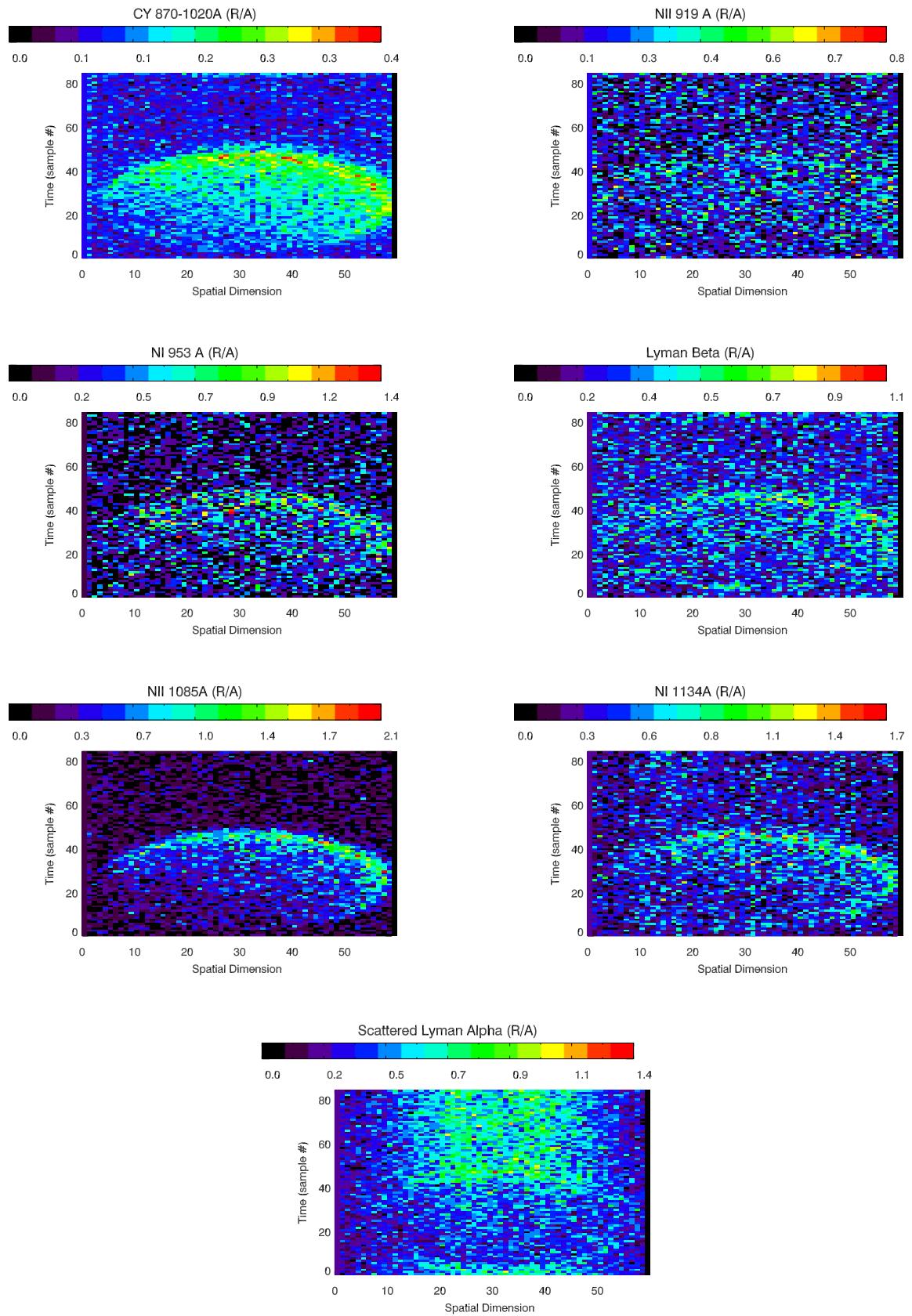


Figure 861: Panel of 7 detector images

FUV2015_043_08_14_47_UVIS_212TI_EUVFUV001_PRIME

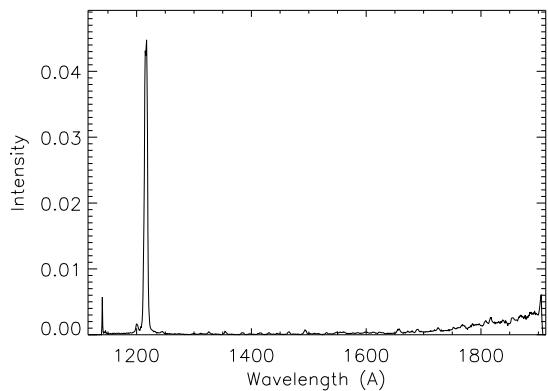


Figure 862: Spectra

body phase angle (deg): 44.7
distance (km): 108646.
Lon sub-s/c (180E): 11.7
Lat sub-s/c: -12.9
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 863: Geometry data

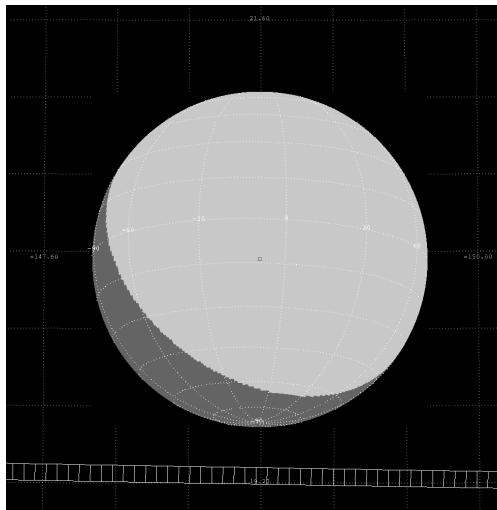


Figure 864: Frame 3

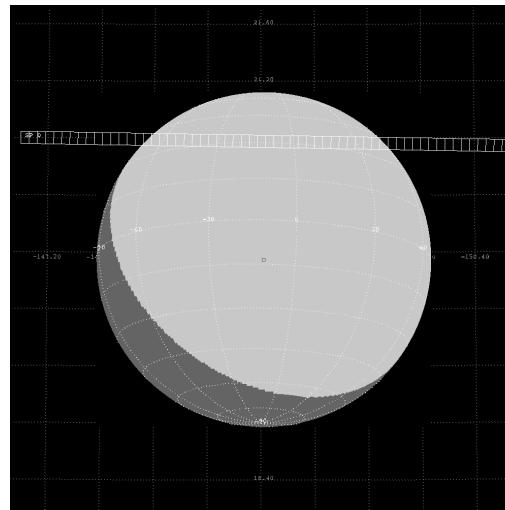


Figure 865: Frame 30

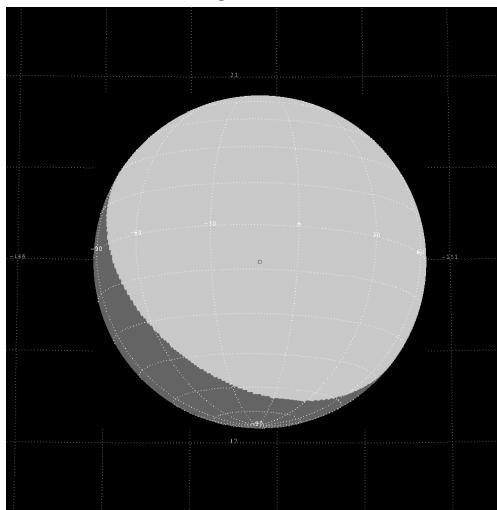


Figure 866: Frame 60

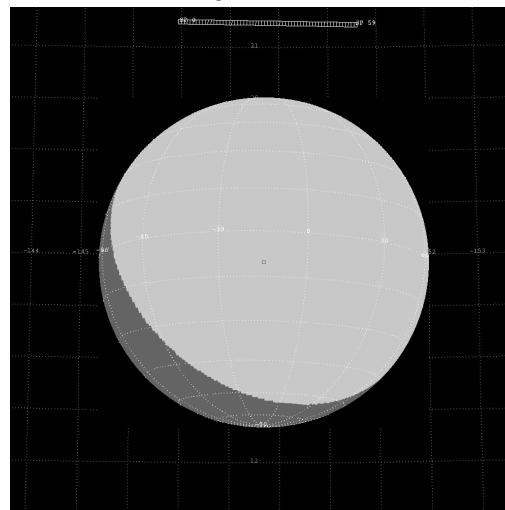


Figure 867: Frame 84

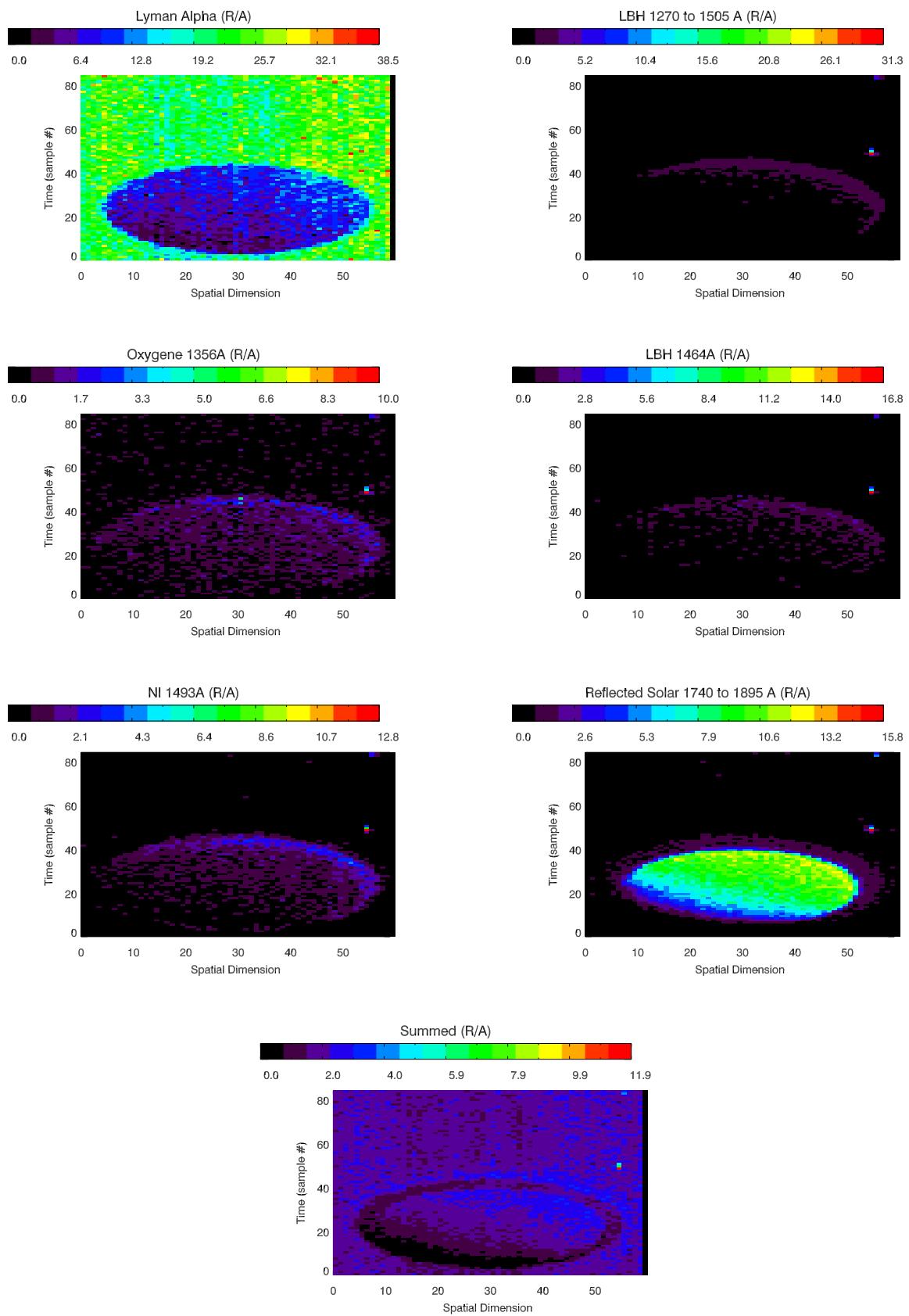


Figure 868: Panel of 7 detector images

EUV2015_043_19_29_47_UVIS_212TI_EUVFUV002_PRIME

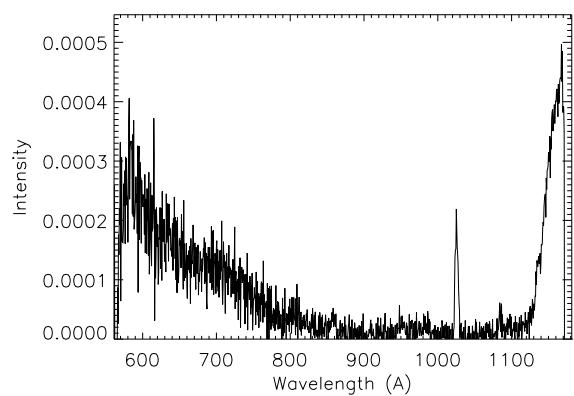


Figure 869: Spectra

body phase angle (deg): 138.4
distance (km): 110982.
Lon sub-s/c (180E): 202.1
Lat sub-s/c: 9.1
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 870: Geometry data

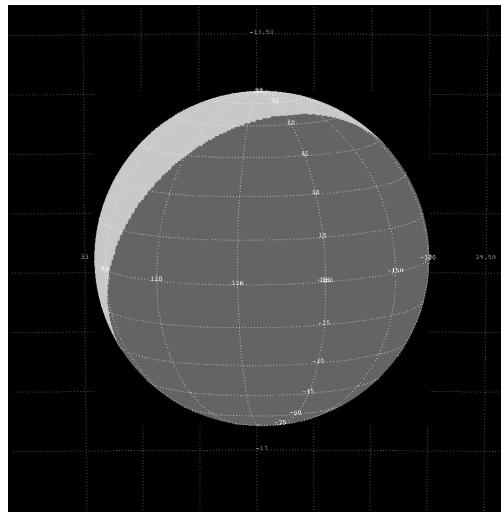


Figure 871: Frame 40

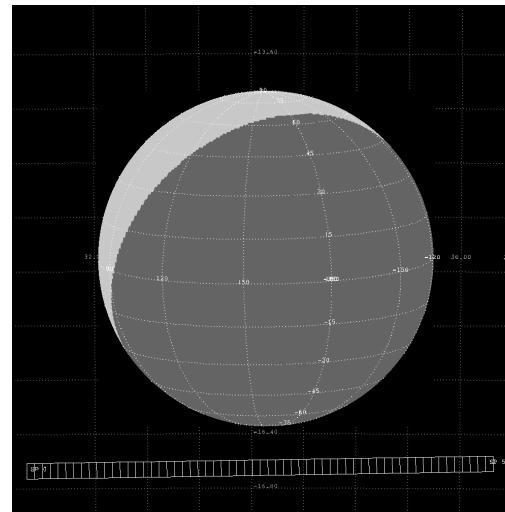


Figure 872: Frame 50

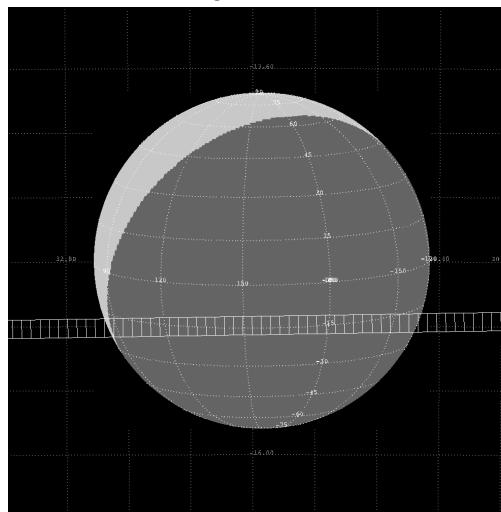


Figure 873: Frame 65

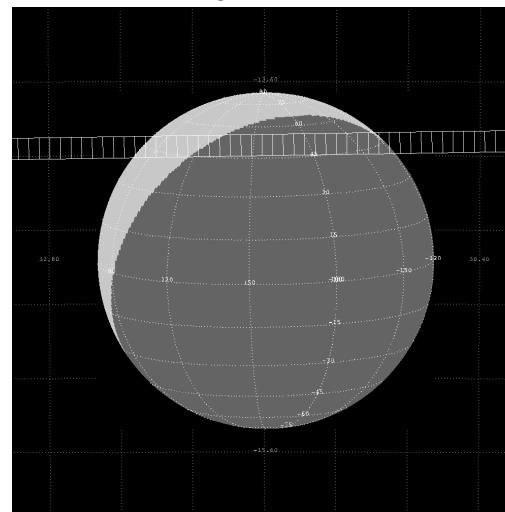


Figure 874: Frame 80

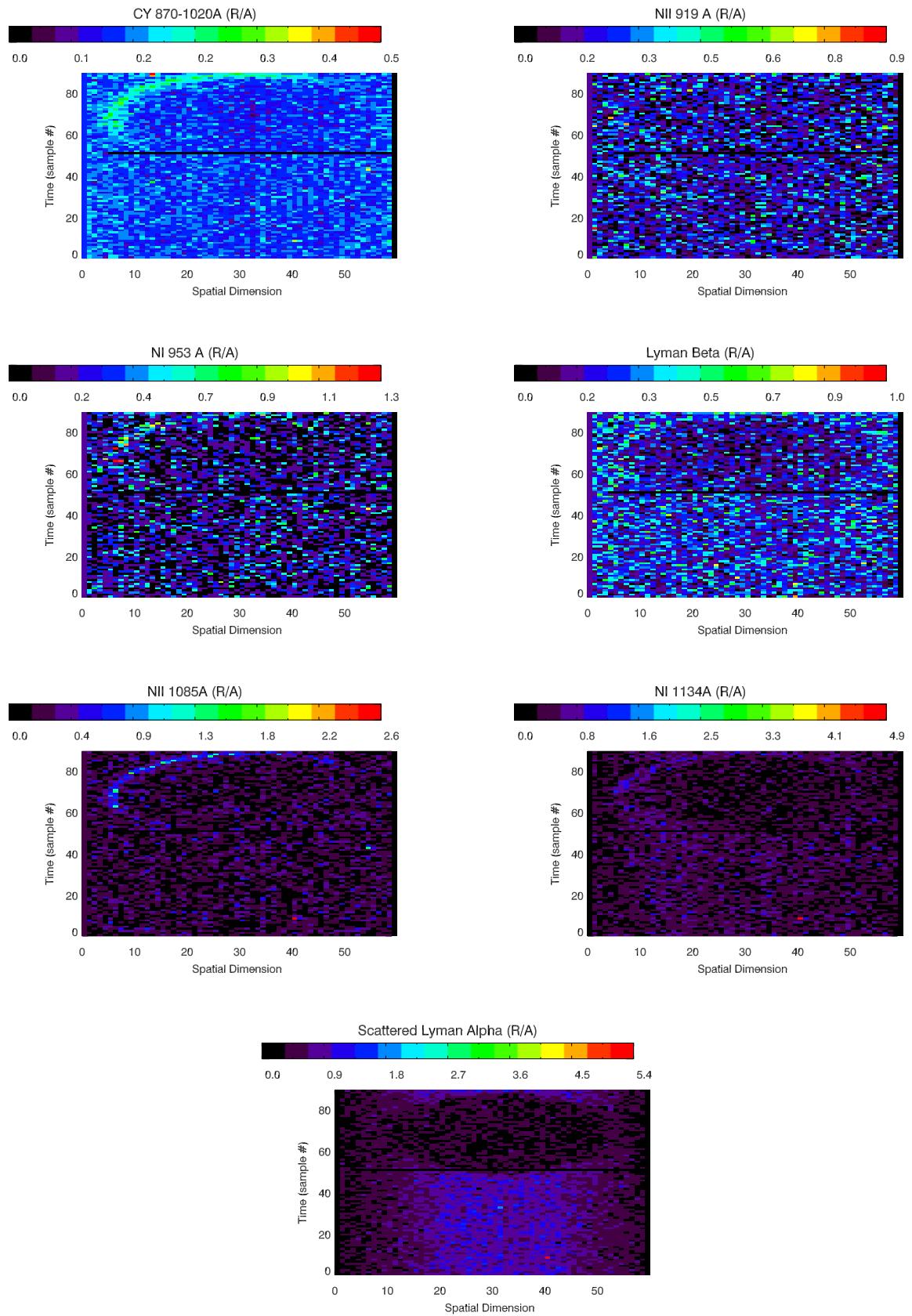


Figure 875: Panel of 7 detector images

FUV2015_043_19_29_47_UVIS_212TI_EUVFUV002_PRIME

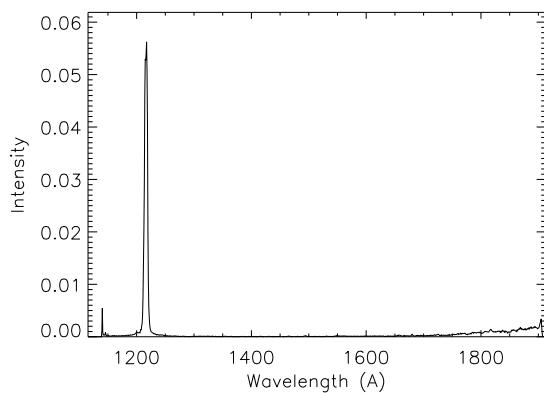


Figure 876: Spectra

body phase angle (deg): 138.4
distance (km): 110982.
Lon sub-s/c (180E): 202.1
Lat sub-s/c: 9.1
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 877: Geometry data

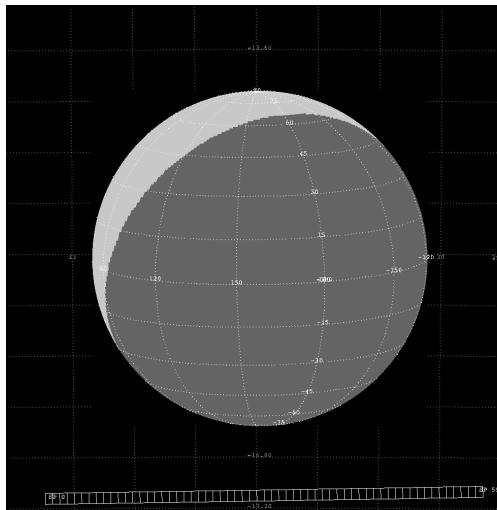


Figure 878: Frame 45

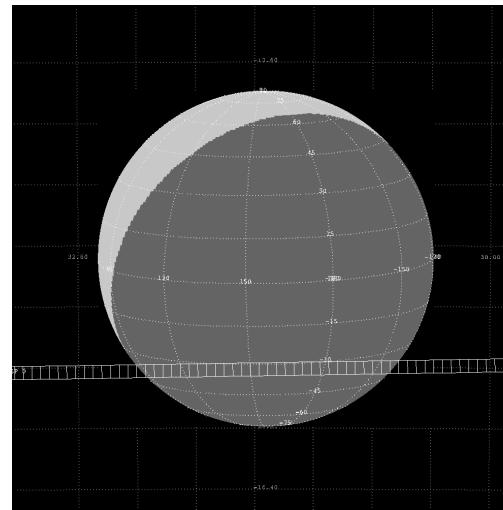


Figure 879: Frame 60

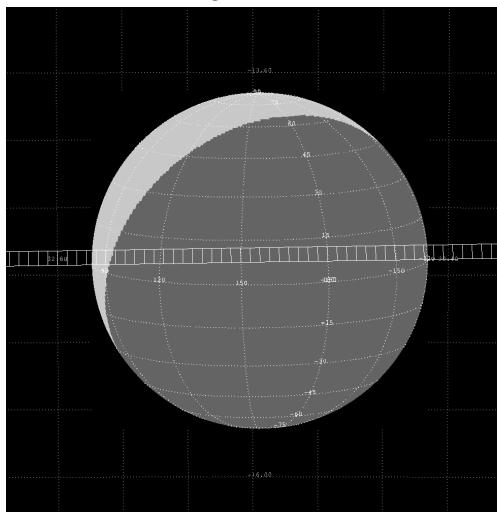


Figure 880: Frame 70

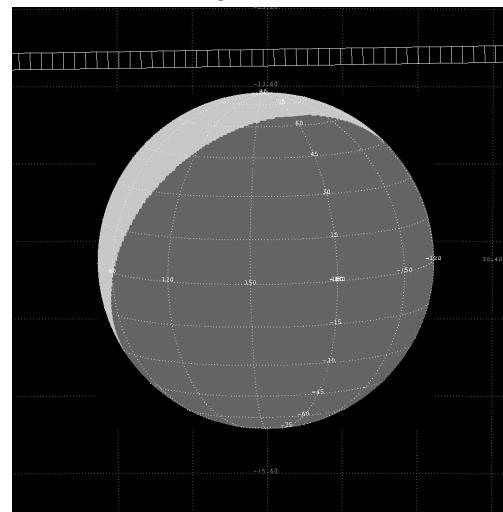


Figure 881: Frame 85

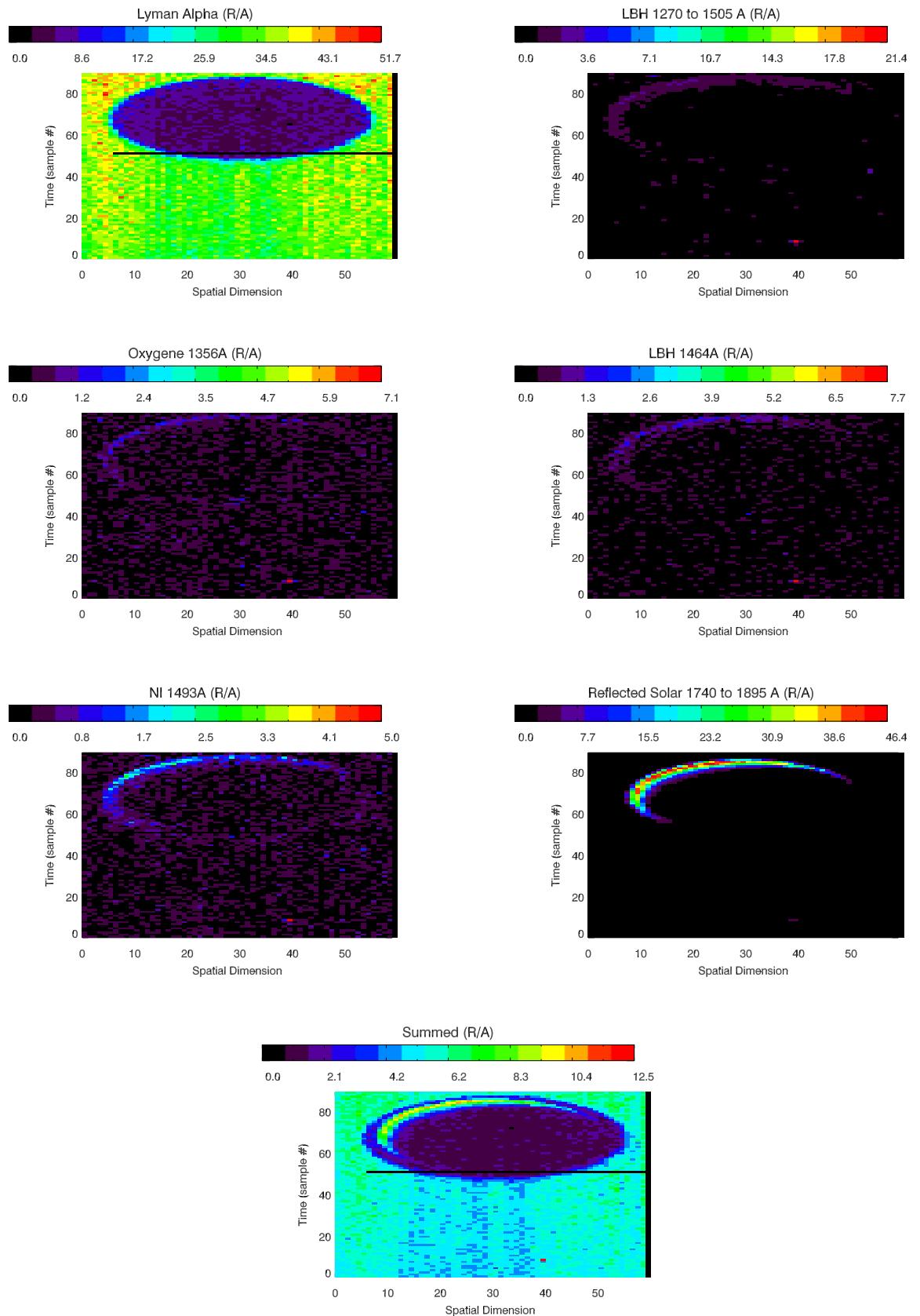


Figure 882: Panel of 7 detector images

EUV2015_317_08_09_03_UVIS_225TI_EUVFUV001_PRIME

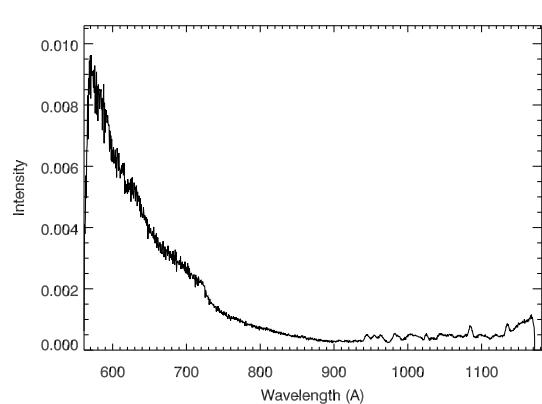


Figure 883: Spectra

body phase angle (deg): 153.5
distance (km): 110354.
Lon sub-s/c (180E): 210.3
Lat sub-s/c: -2.0
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 884: Geometry data

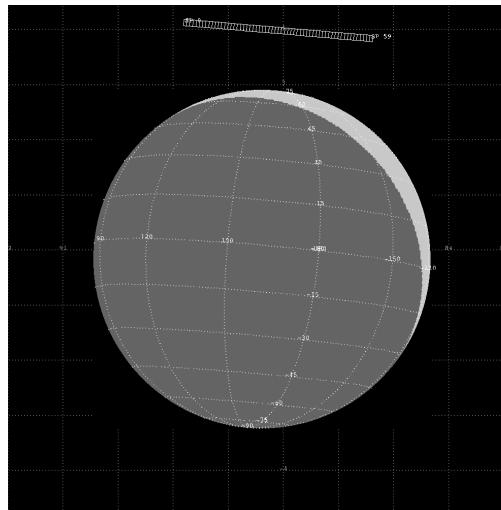


Figure 885: Frame 0

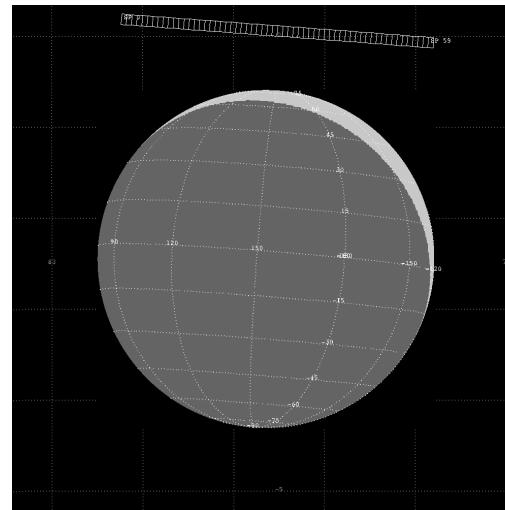


Figure 886: Frame 25

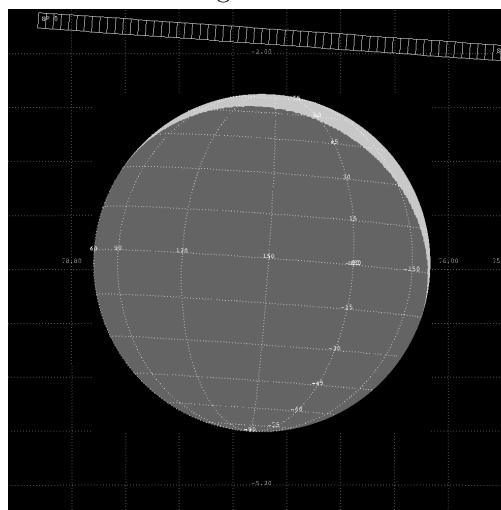


Figure 887: Frame 55

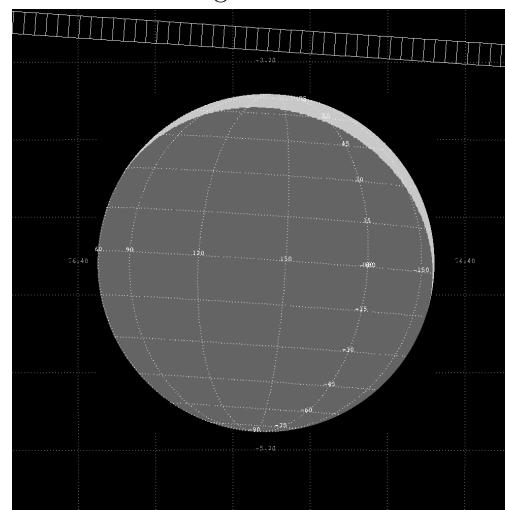


Figure 888: Frame 95

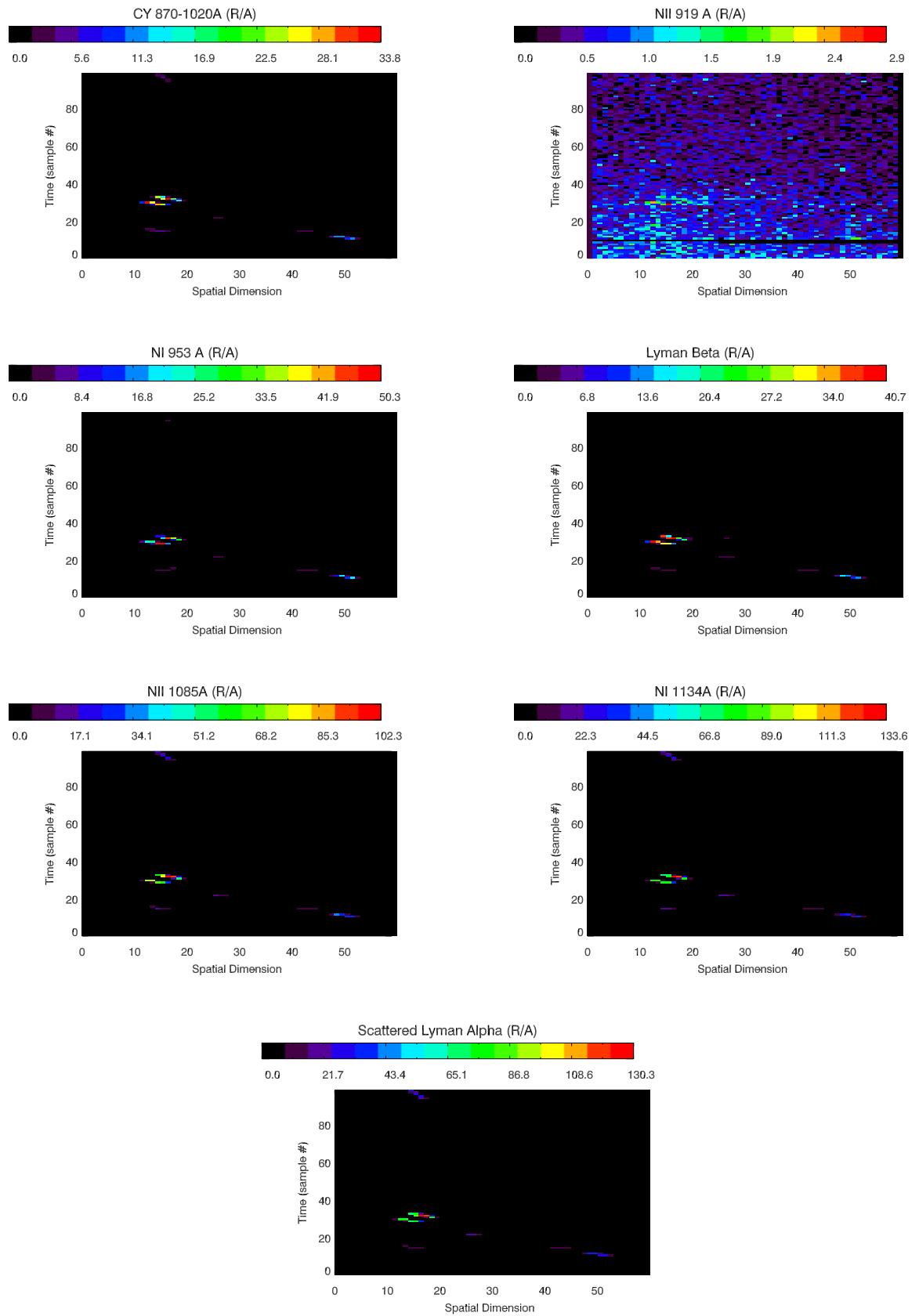


Figure 889: Panel of 7 detector images

FUV2015_317_08_09_03_UVIS_225TI_EUVFUV001_PRIME

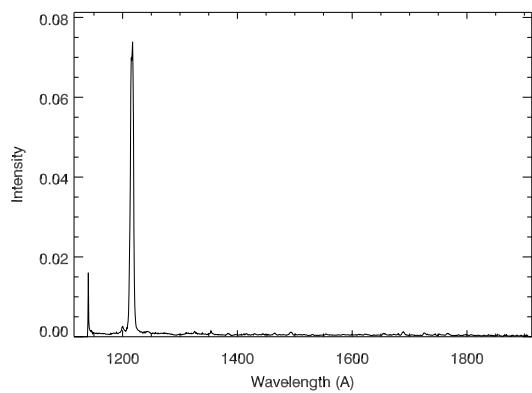


Figure 890: Spectra

body phase angle (deg): 153.5
 distance (km): 110354.
 Lon sub-s/c (180E): 210.3
 Lat sub-s/c: -2.0
 xbin: 1
 ybin: 1
 xmin: 0
 xmax: 1023
 ymin: 2
 ymax: 61
 integration (sec): 240

Figure 891: Geometry data

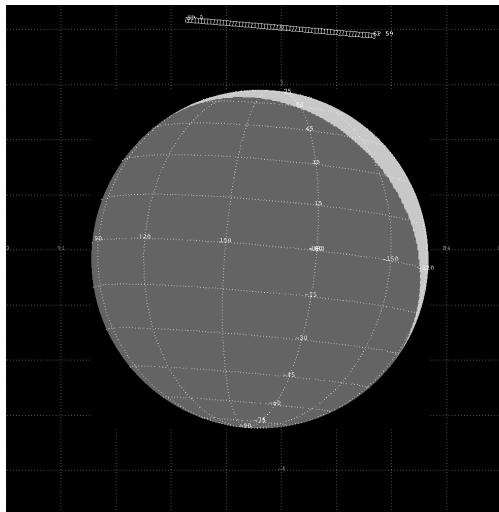


Figure 892: Frame 0

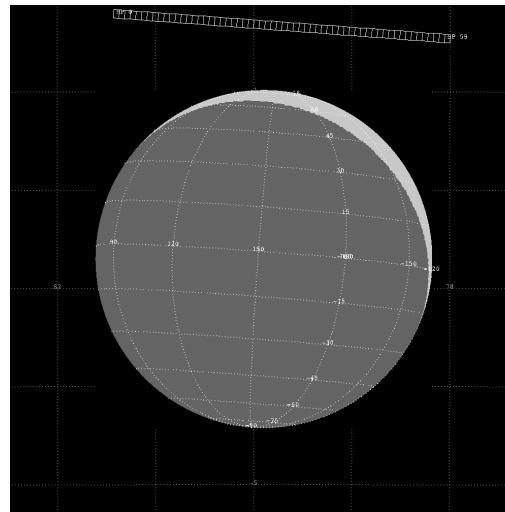


Figure 893: Frame 30

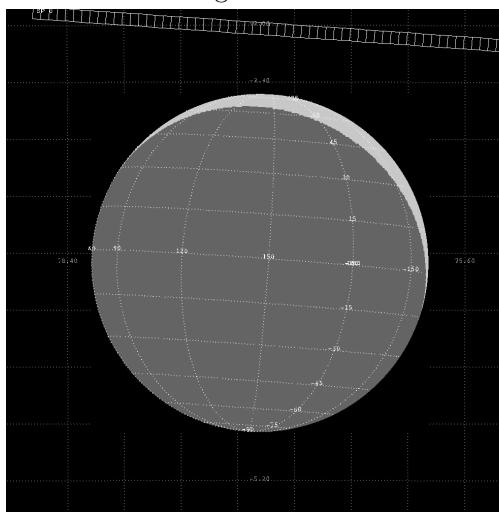


Figure 894: Frame 60

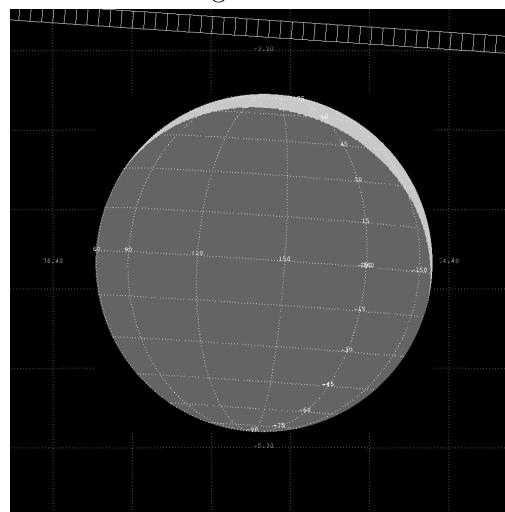


Figure 895: Frame 98

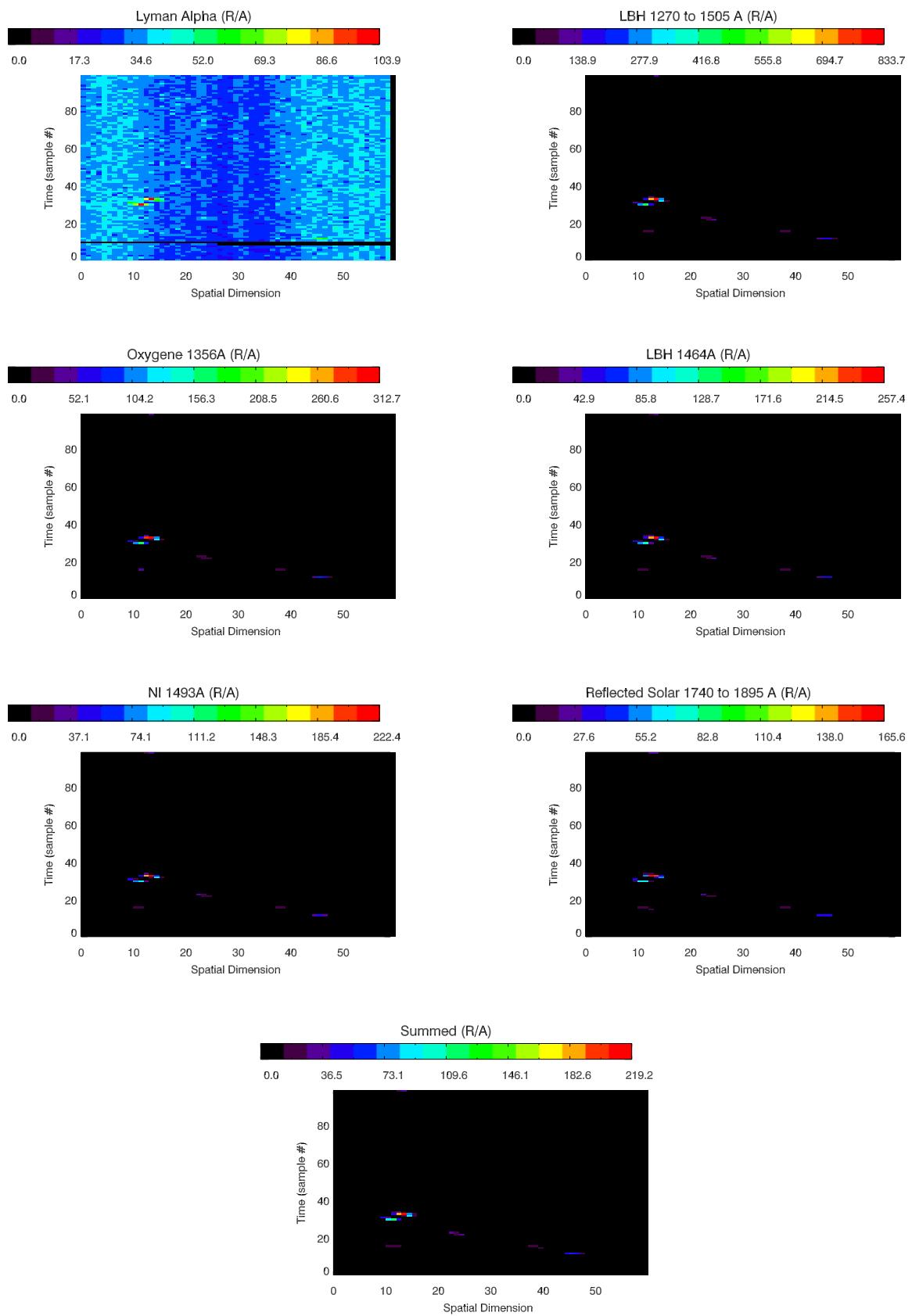


Figure 896: Panel of 7 detector images

Year 2016

Brief descriptif of observations:

- Day 015: Dayglow, no nightglow
- Day 032: Bright spot in FUV. Dayglow in EUV?
- Day 095: Dayglow, no nightglow. Bright sopt in the background
- Day 095-2: Bright spot in background. Dayglow?
- Day 270: Dayglow? Particular geometry
- Day 271: Dayglow and twilight glow?

EUV2016_015_17_26_58_UVIS_230TI_EUVFUV001_PRIME

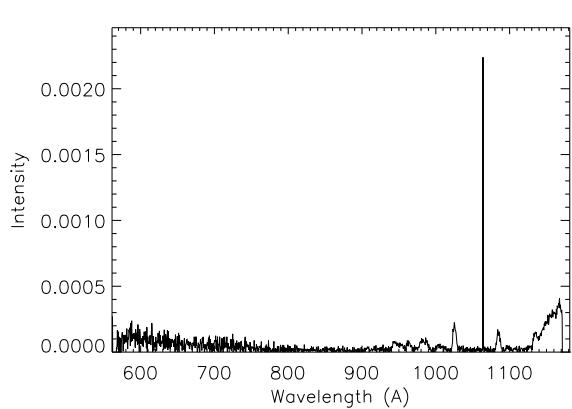


Figure 897: Spectra

body phase angle (deg): 28.2
distance (km): 111931.
Lon sub-s/c (180E): 24.1
Lat sub-s/c: -1.4
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 898: Geometry data

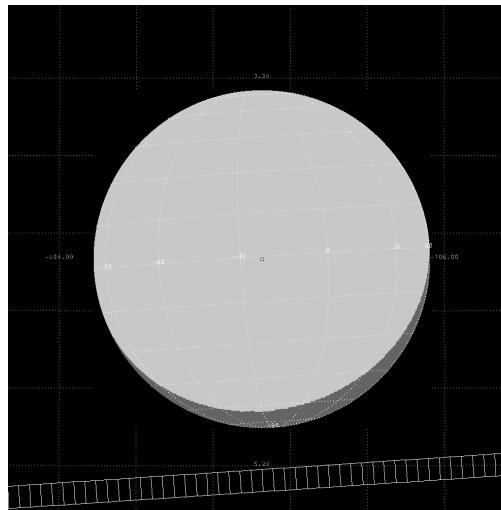


Figure 899: Frame 5

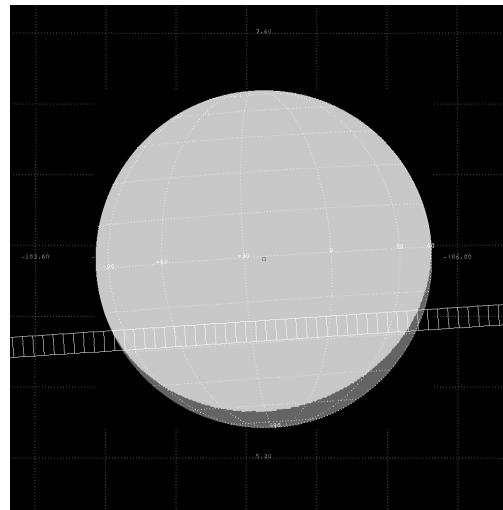


Figure 900: Frame 15

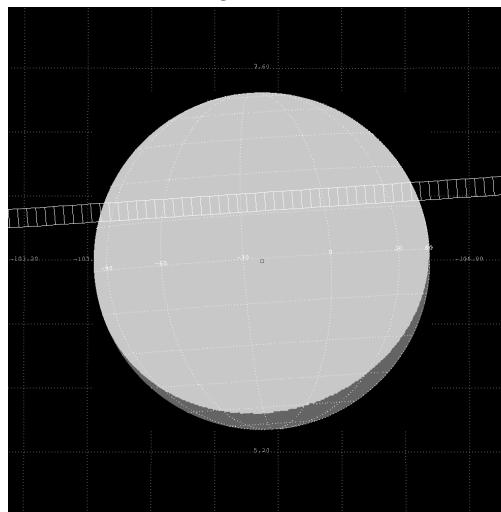


Figure 901: Frame 25

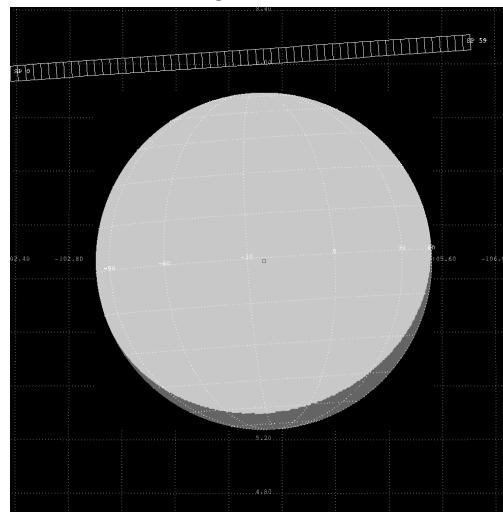


Figure 902: Frame 40

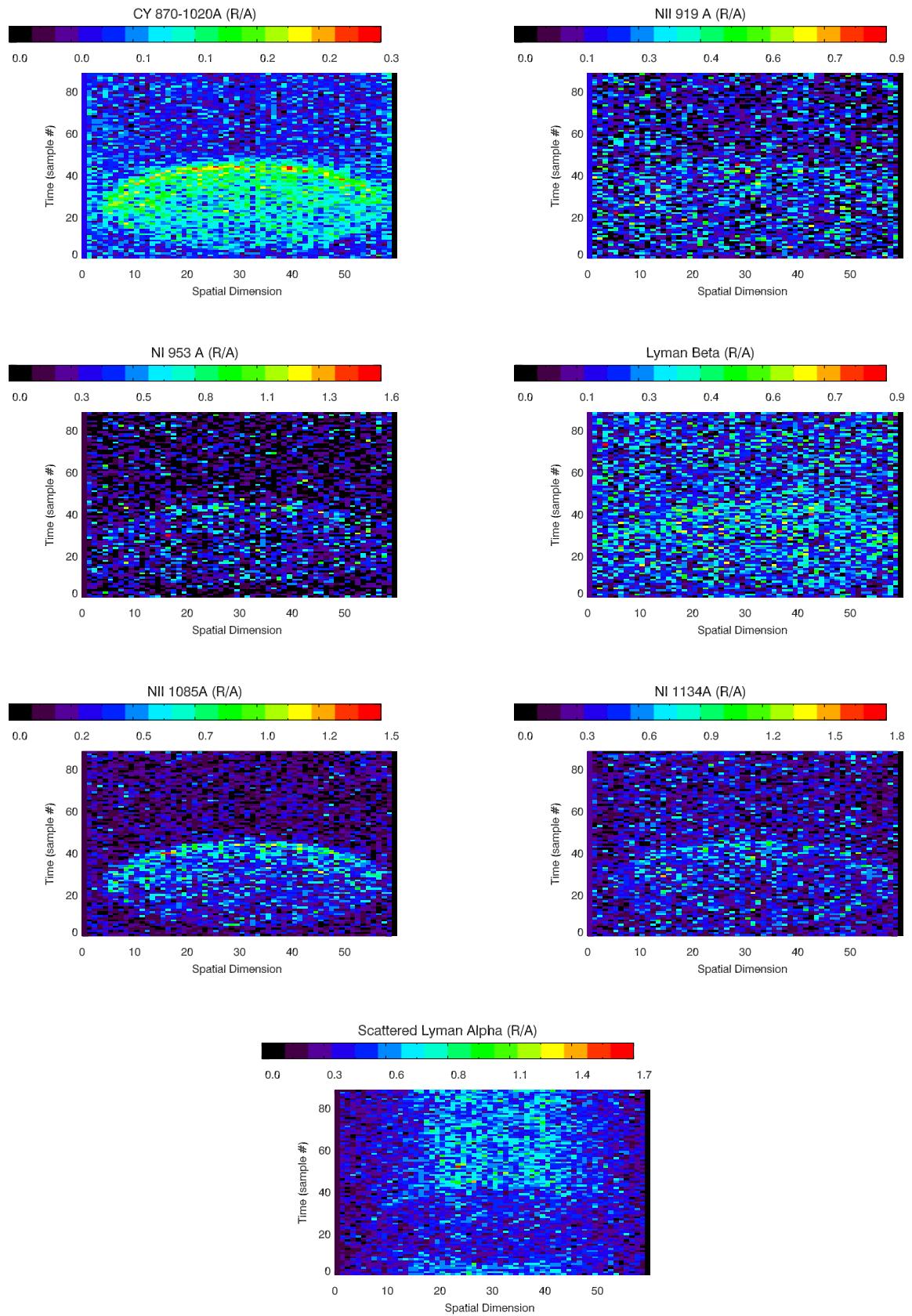


Figure 903: Panel of 7 detector images

FUV2016_015_17_26_58_UVIS_230TI_EUVFUV001_PRIME

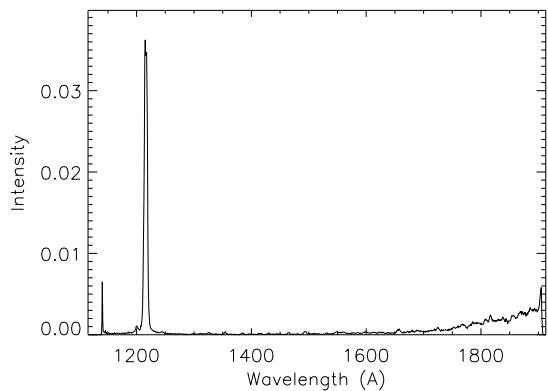


Figure 904: Spectra

body phase angle (deg): 28.2
distance (km): 111931.
Lon sub-s/c (180E): 24.1
Lat sub-s/c: -1.4
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 905: Geometry data

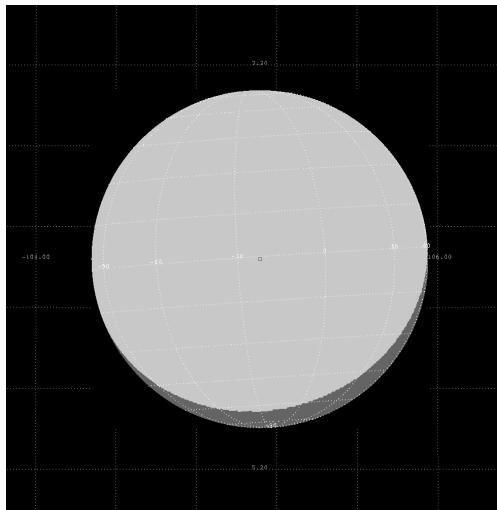


Figure 906: Frame 0

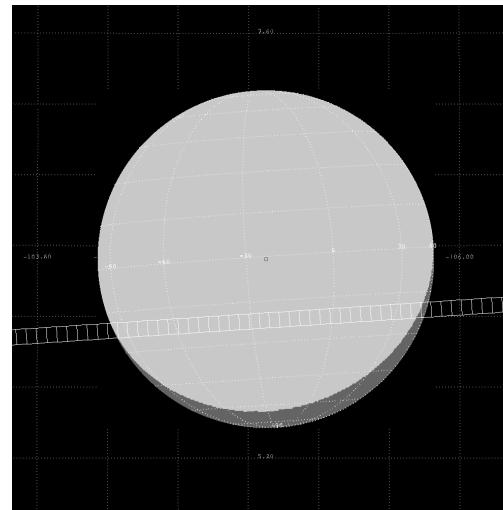


Figure 907: Frame 15

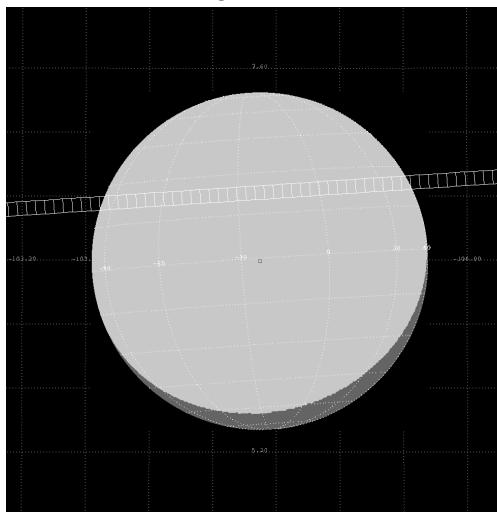


Figure 908: Frame 25

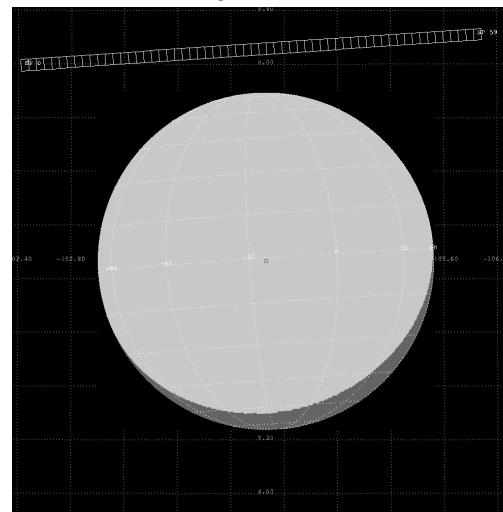


Figure 909: Frame 40

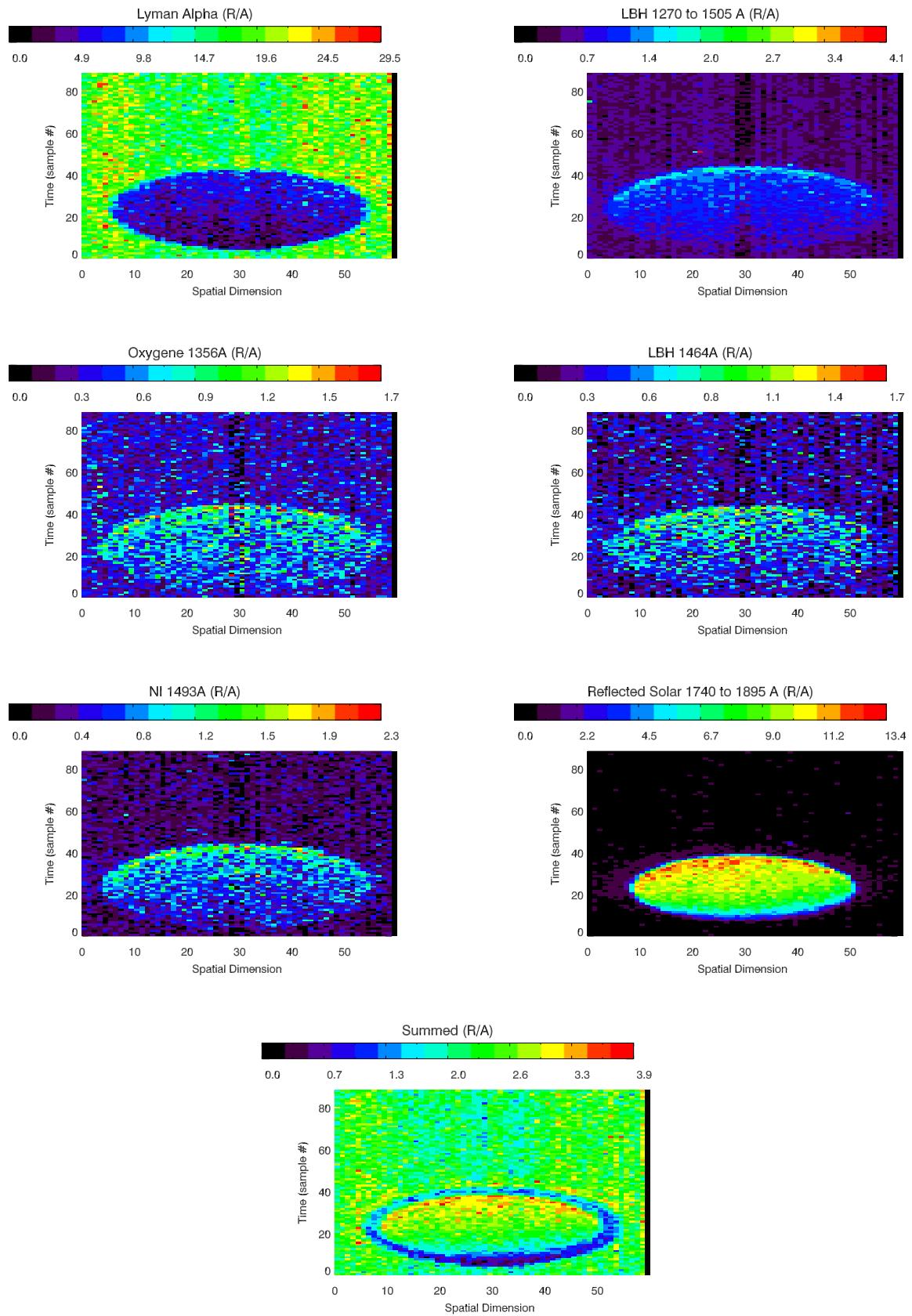


Figure 910: Panel of 7 detector images

EUV2016_032_04_29_18_UVIS_231TI_EUVFUV001_PRIME

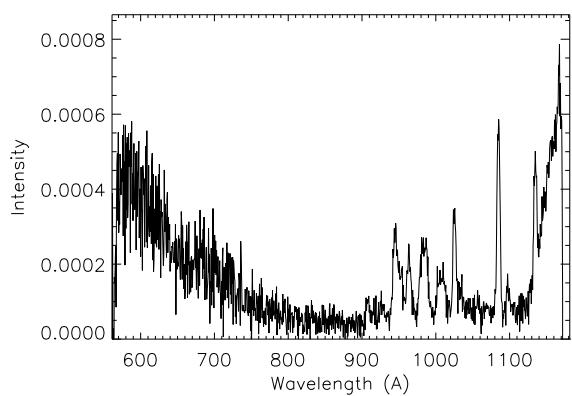


Figure 911: Spectra

body phase angle (deg): 146.1
distance (km): 82401.
Lon sub-s/c (180E): 212.2
Lat sub-s/c: 7.2
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 912: Geometry data

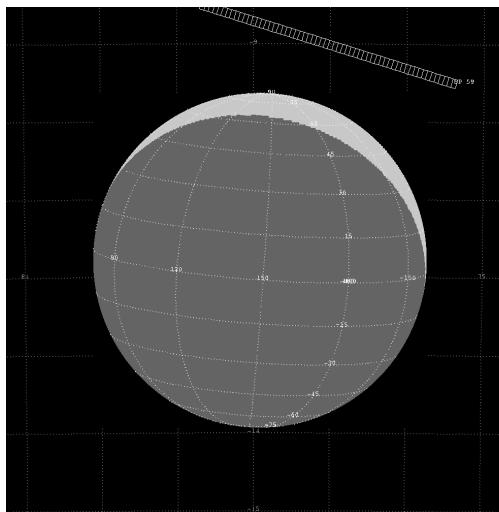


Figure 913: Frame 0

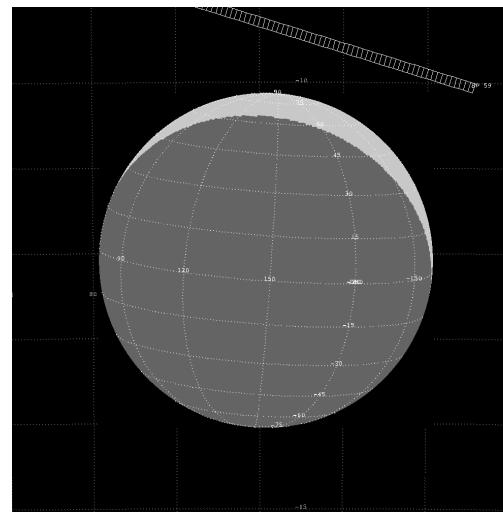


Figure 914: Frame 5

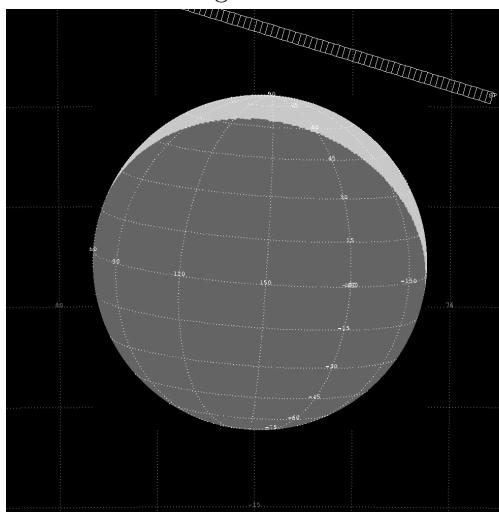


Figure 915: Frame 15

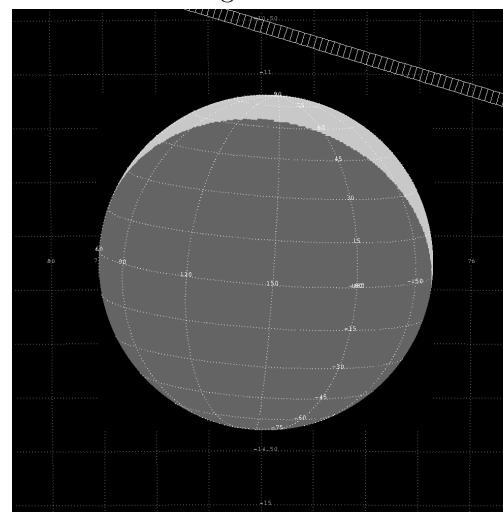


Figure 916: Frame 20

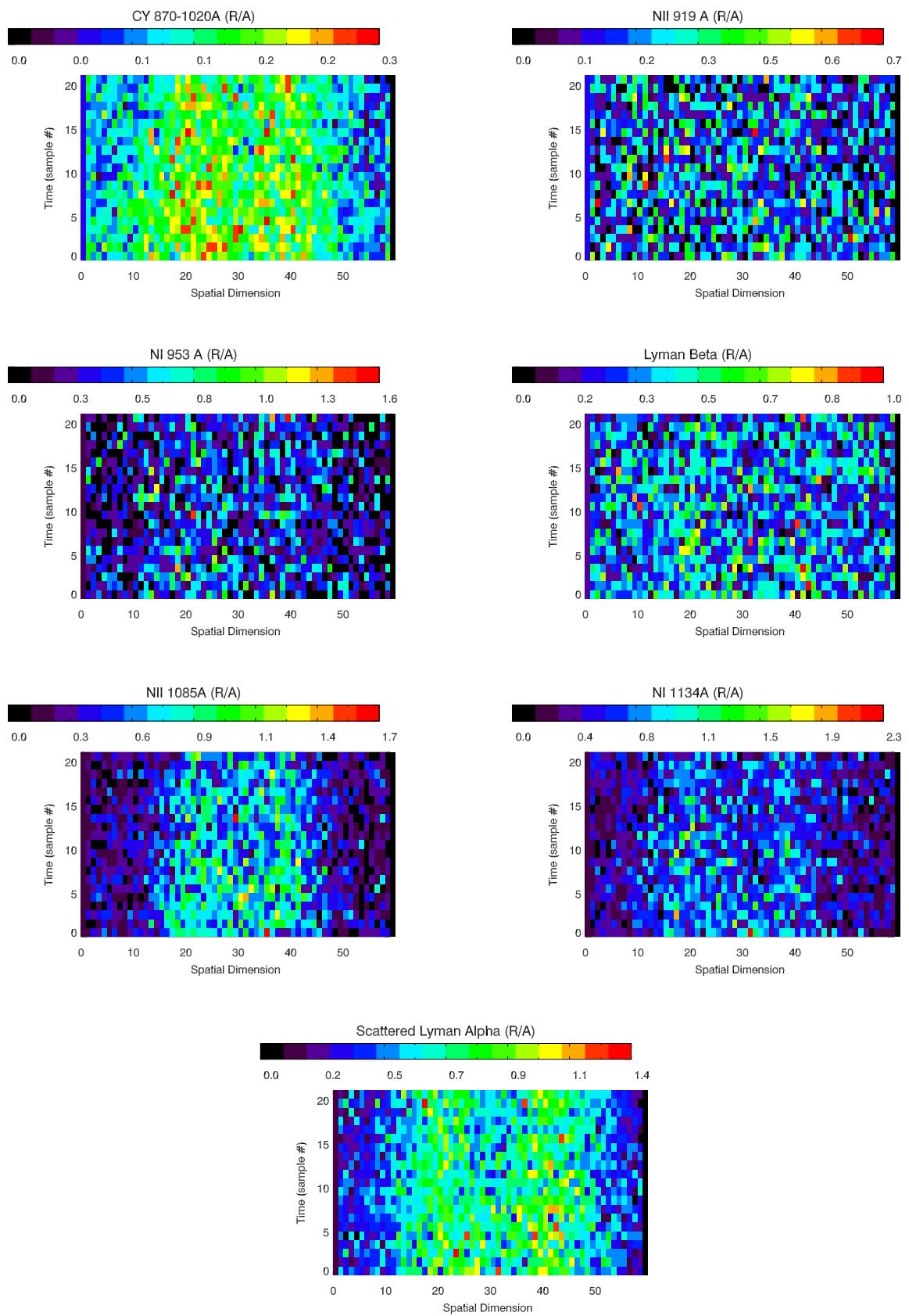


Figure 917: Panel of 7 detector images

FUV2016_032_04_29_18_UVIS_231TI_EUVFUV001_PRIME

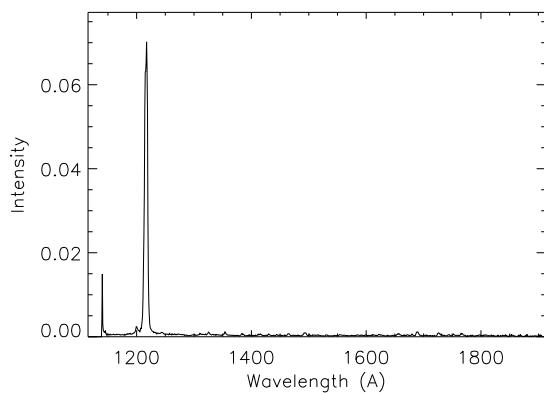


Figure 918: Spectra

body phase angle (deg): 146.1
distance (km): 82401.
Lon sub-s/c (180E): 212.2
Lat sub-s/c: 7.2
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 919: Geometry data

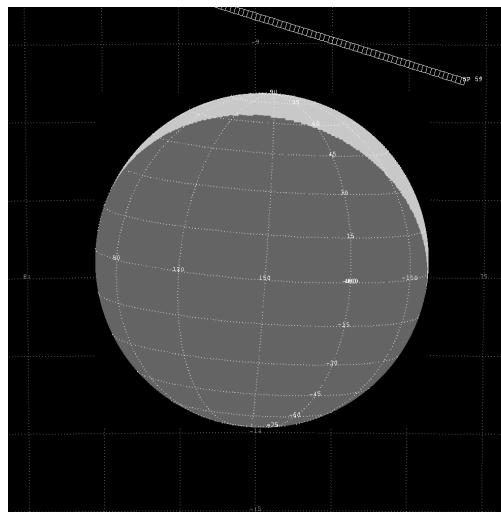


Figure 920: Frame 0

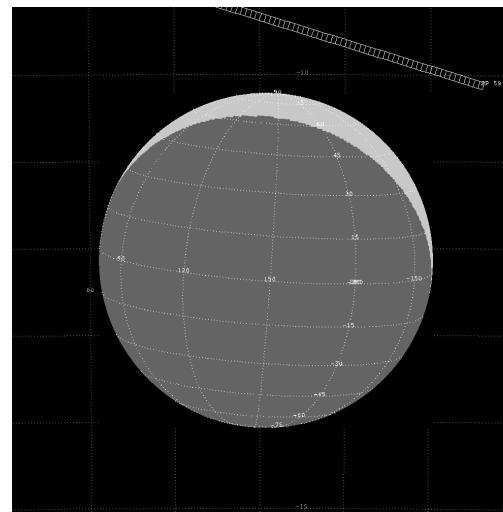


Figure 921: Frame 6

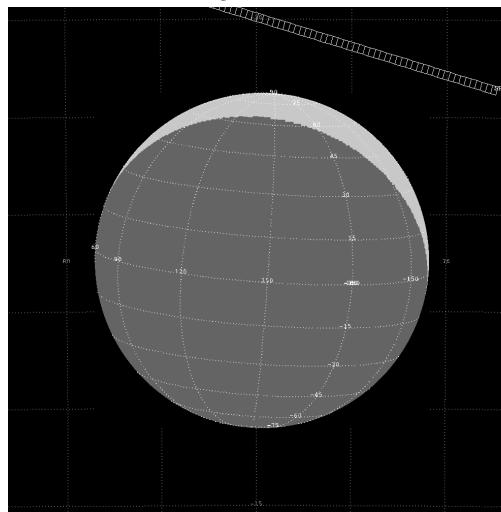


Figure 922: Frame 13

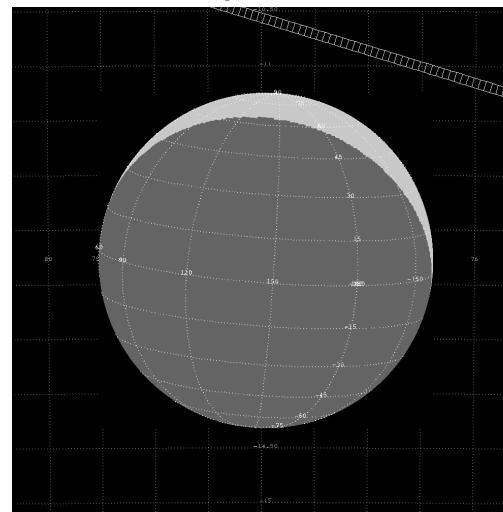


Figure 923: Frame 21

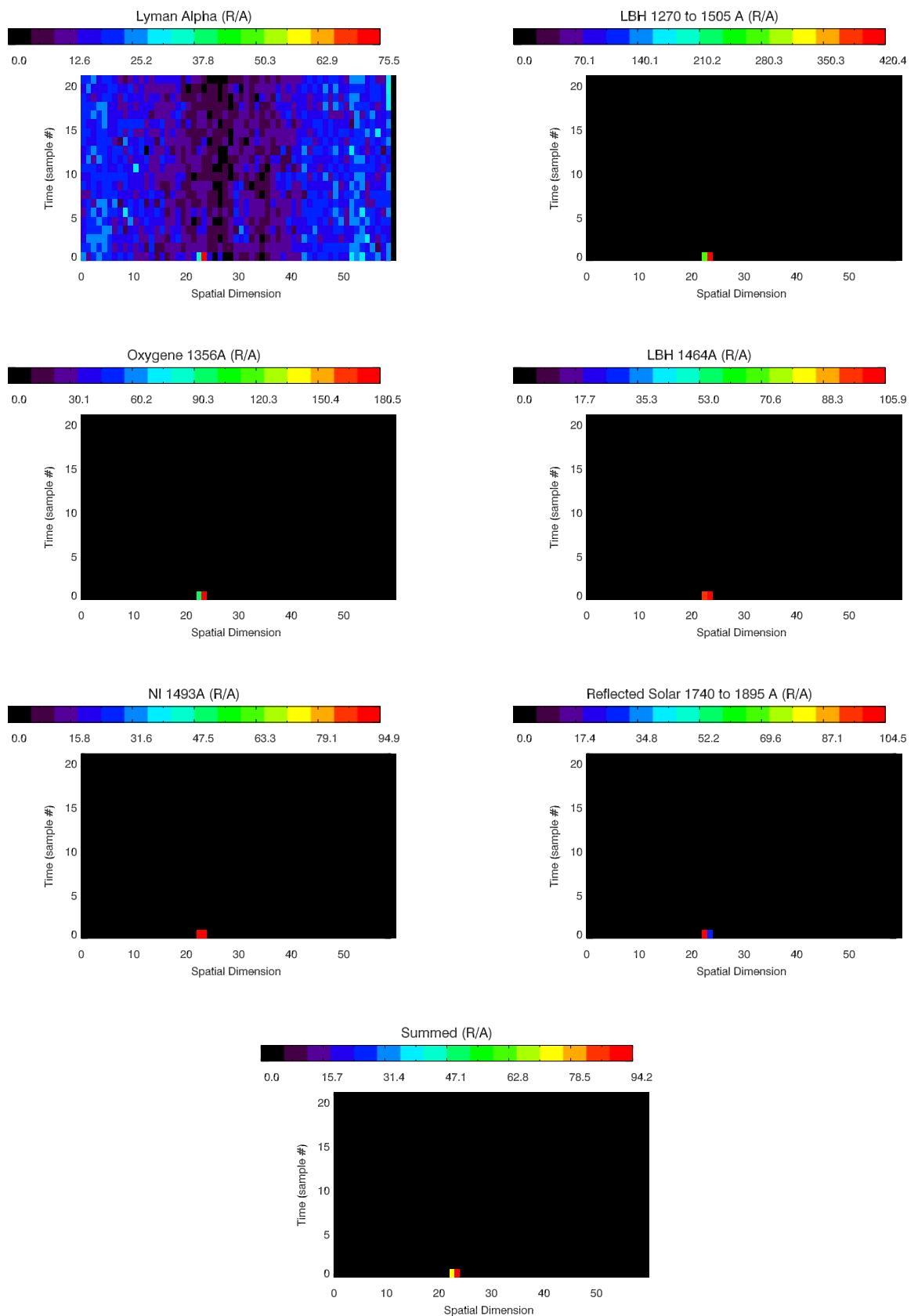


Figure 924: Panel of 7 detector images

EUV2016_095_10_52_56_UVIS_234TI_EUVFUV001_PRIME

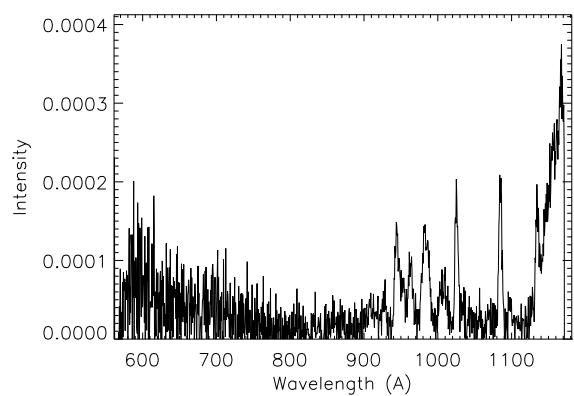


Figure 925: Spectra

body phase angle (deg): 46.2
distance (km): 110626.
Lon sub-s/c (180E): 15.2
Lat sub-s/c: -18.2
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 926: Geometry data

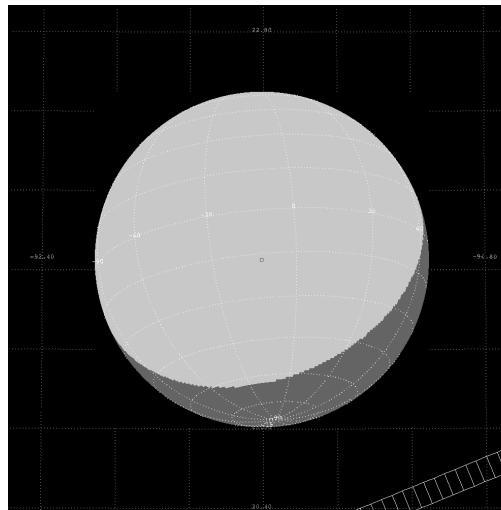


Figure 927: Frame 0

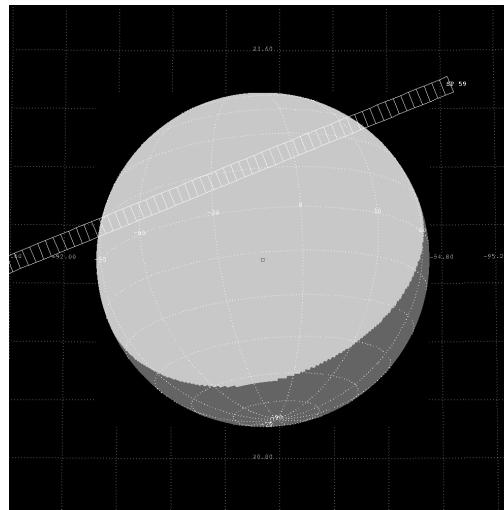


Figure 928: Frame 30

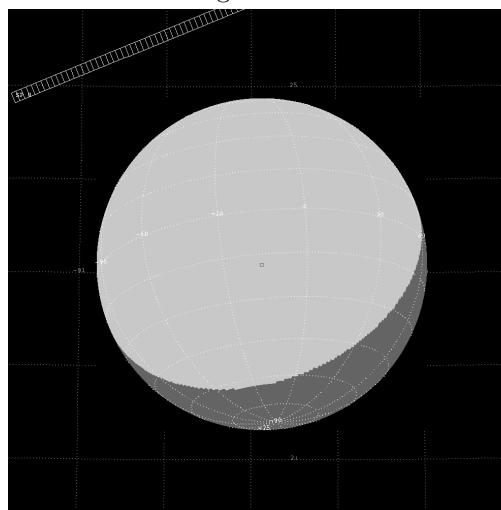


Figure 929: Frame 60

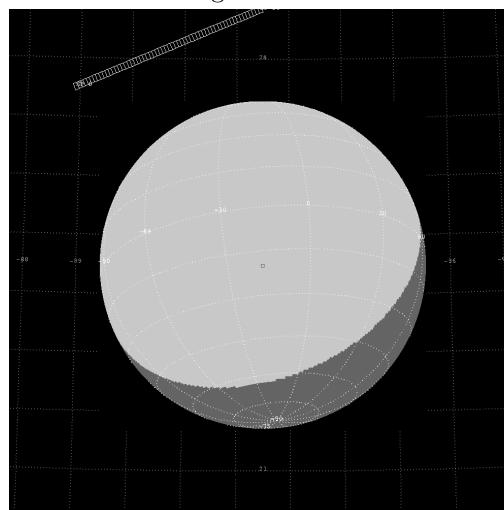


Figure 930: Frame 80

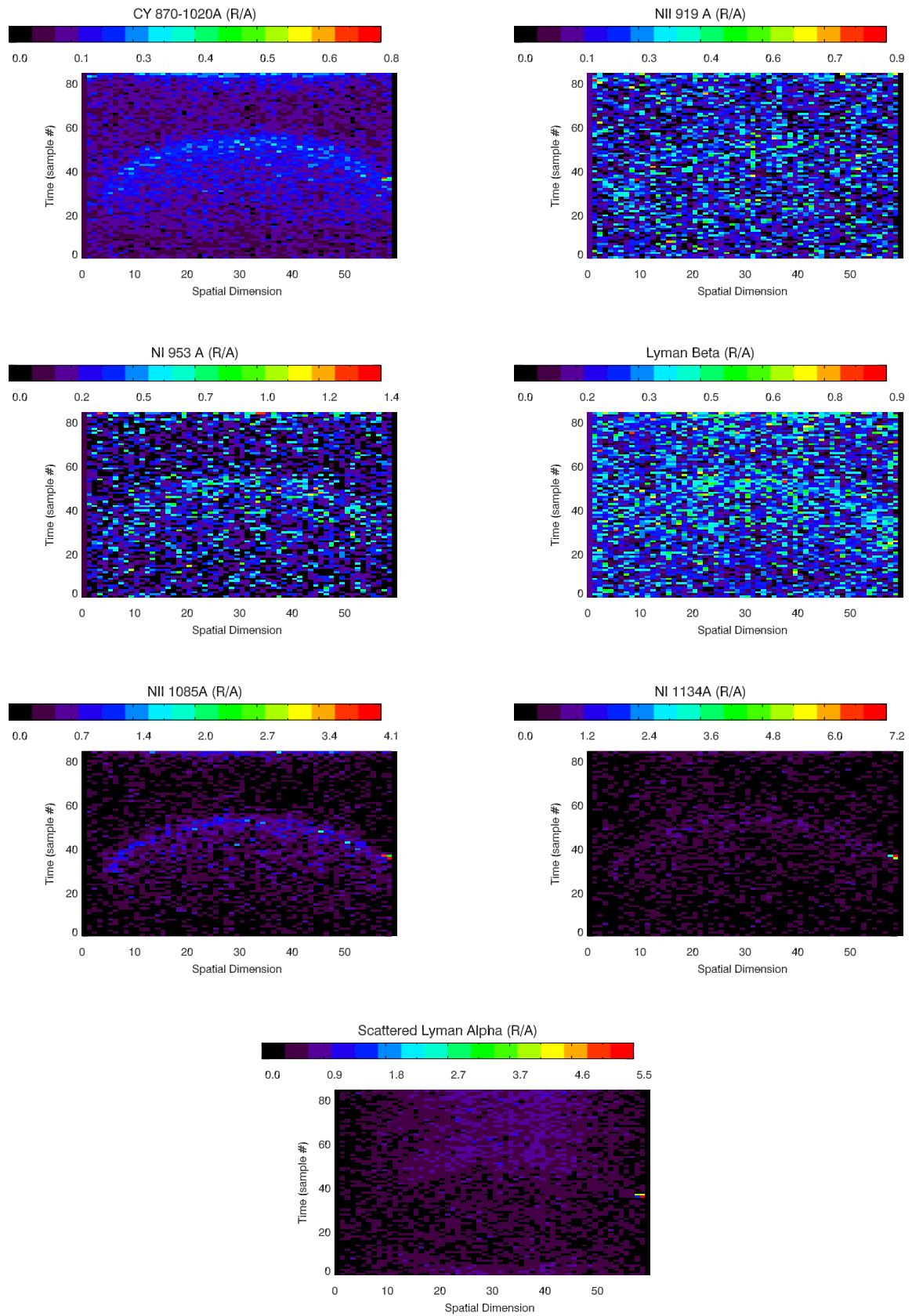


Figure 931: Panel of 7 detector images

FUV2016_095_10_52_56_UVIS_234TI_EUVFUV001_PRIME

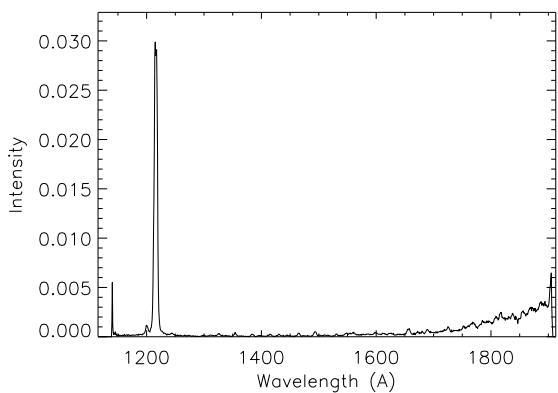


Figure 932: Spectra

body phase angle (deg): 46.2
distance (km): 110626.
Lon sub-s/c (180E): 15.2
Lat sub-s/c: -18.2
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 933: Geometry data

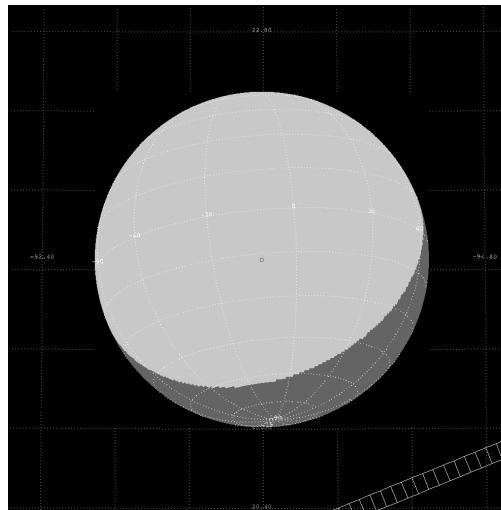


Figure 934: Frame 0

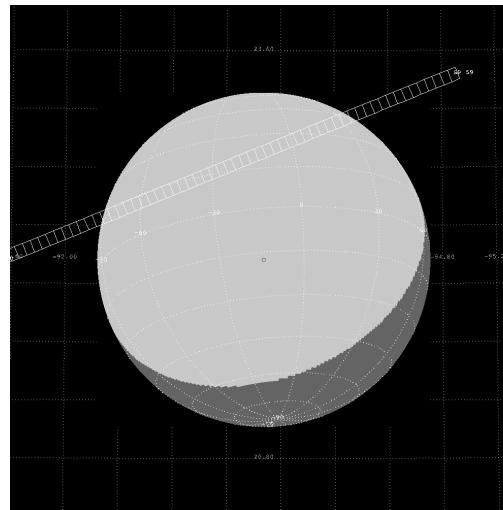


Figure 935: Frame 30

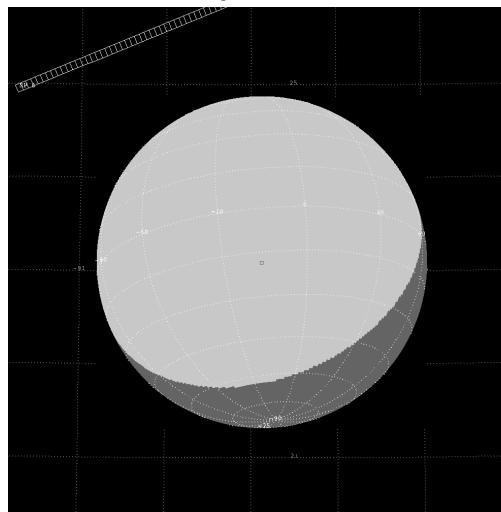


Figure 936: Frame 60

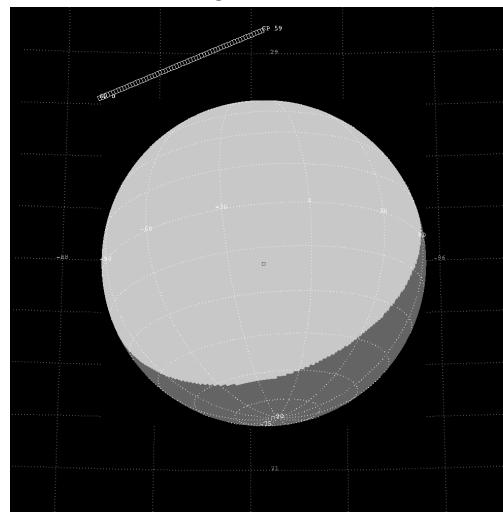


Figure 937: Frame 84

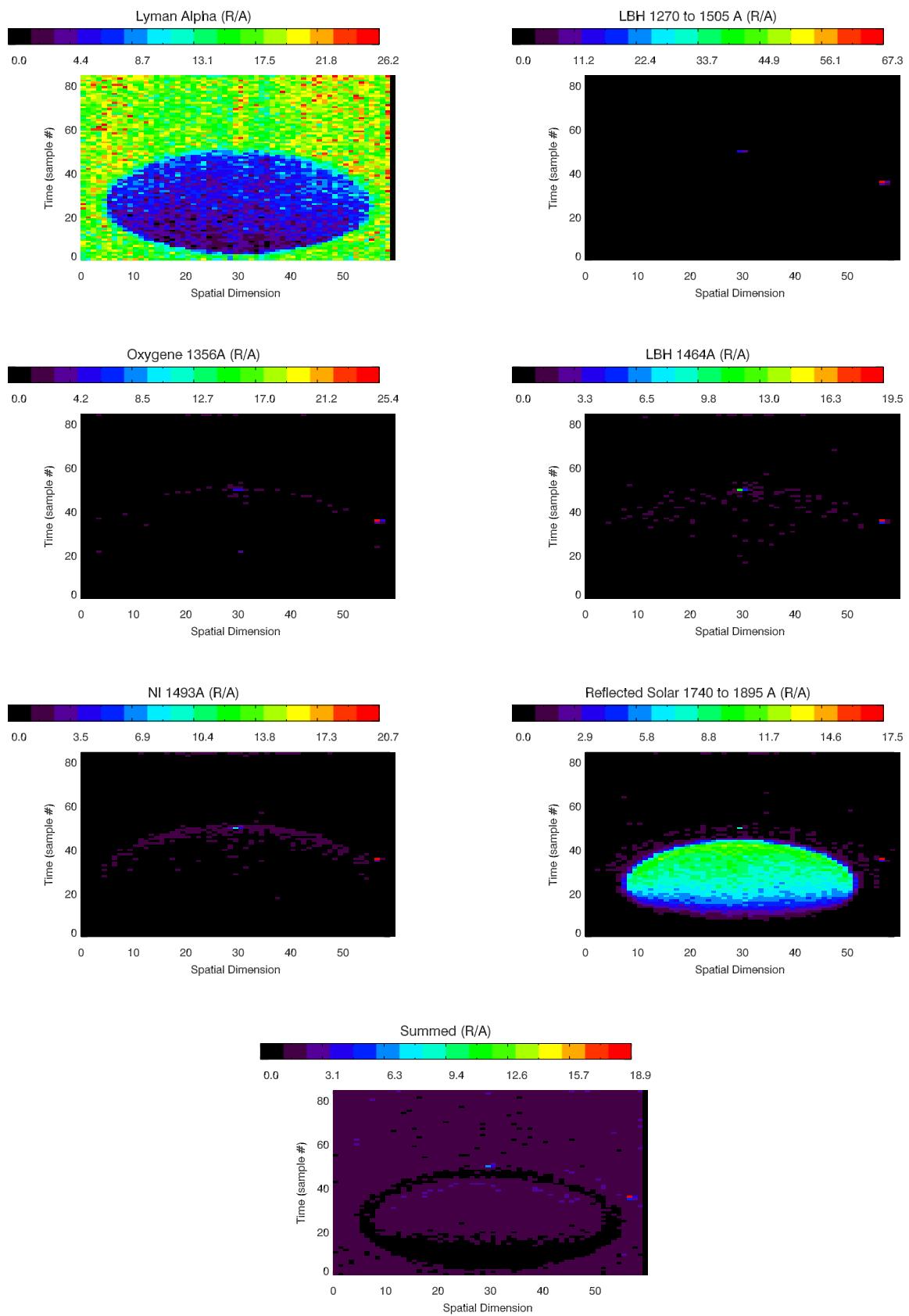


Figure 938: Panel of 7 detector images

EUV2016_095_22_07_55_UVIS_234TI_EUVFUV002_PRIME

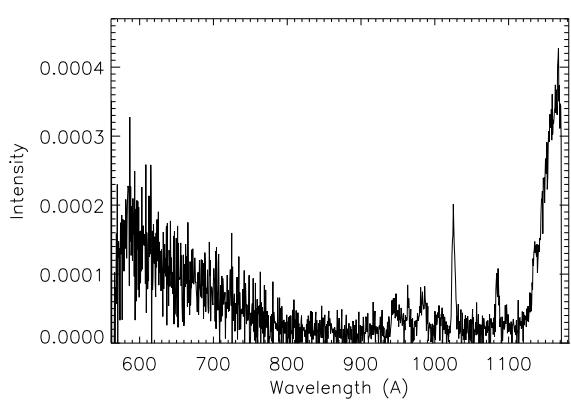


Figure 939: Spectra

body phase angle (deg): 129.3
distance (km): 110403.
Lon sub-s/c (180E): 204.2
Lat sub-s/c: 22.4
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 940: Geometry data

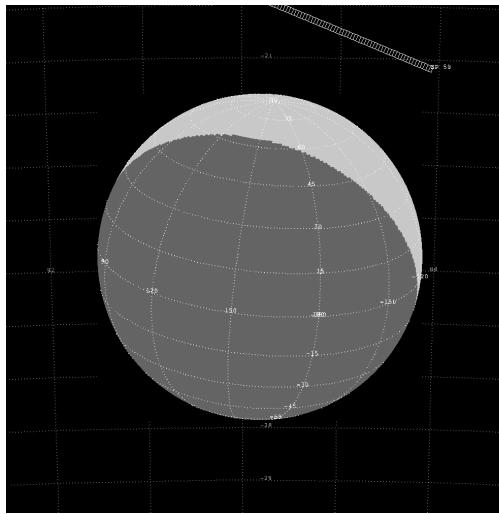


Figure 941: Frame 0

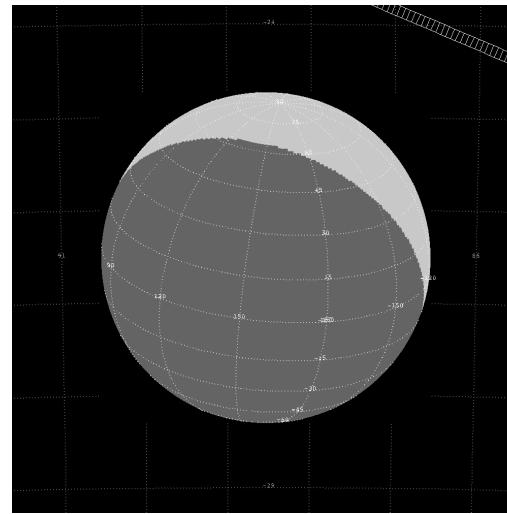


Figure 942: Frame 25

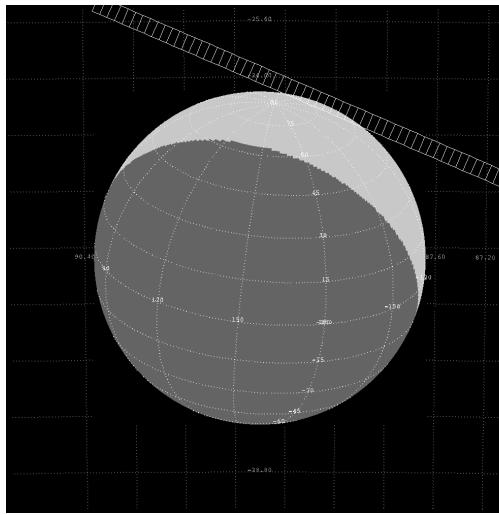


Figure 943: Frame 55

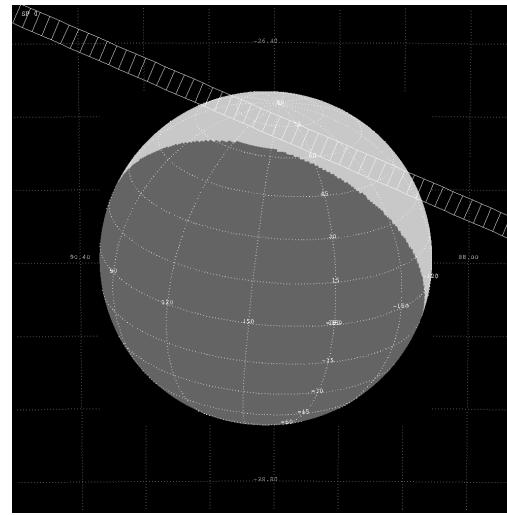


Figure 944: Frame 80

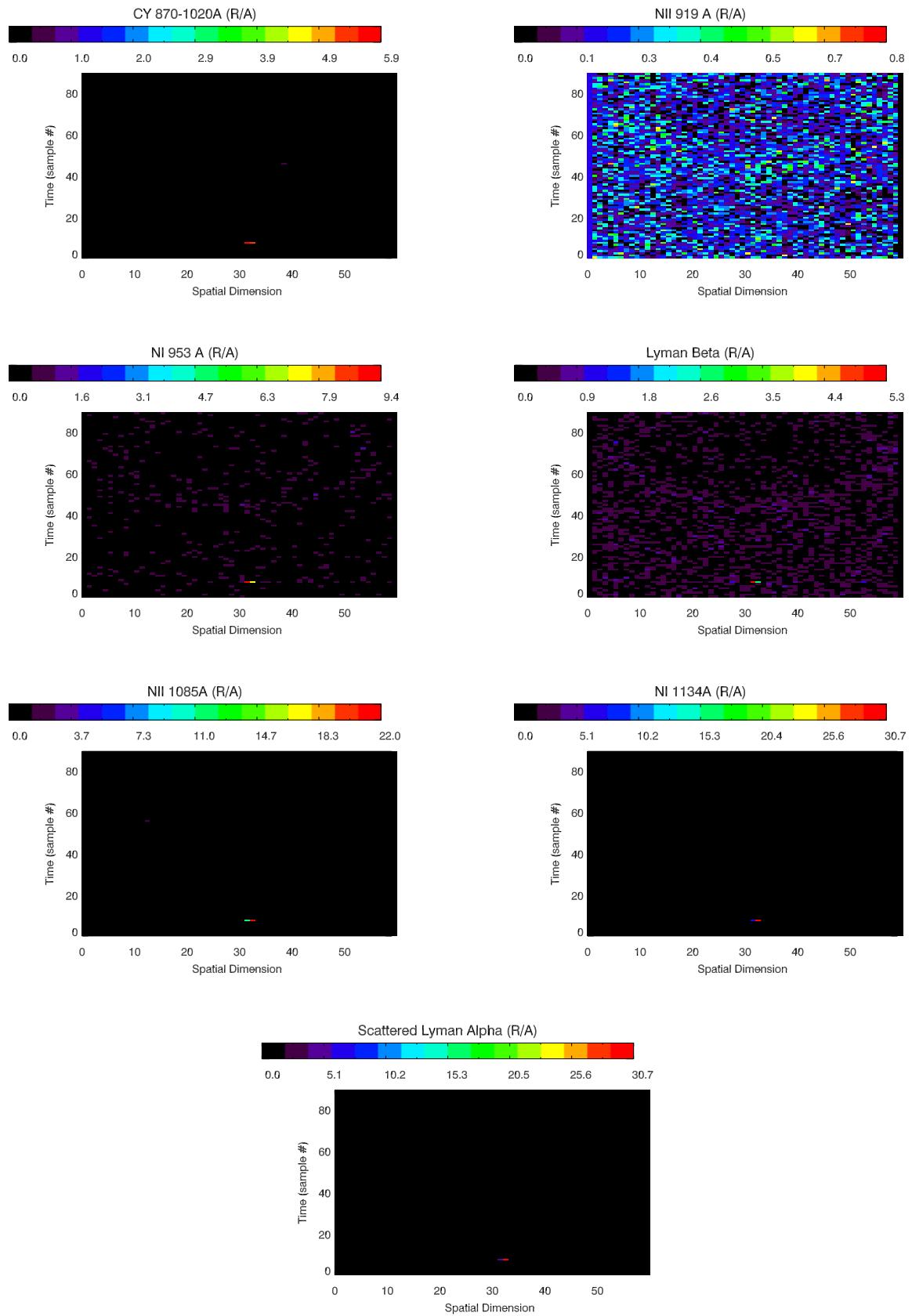


Figure 945: Panel of 7 detector images

FUV2016_095_22_07_55_UVIS_234TI_EUVFUV002_PRIME

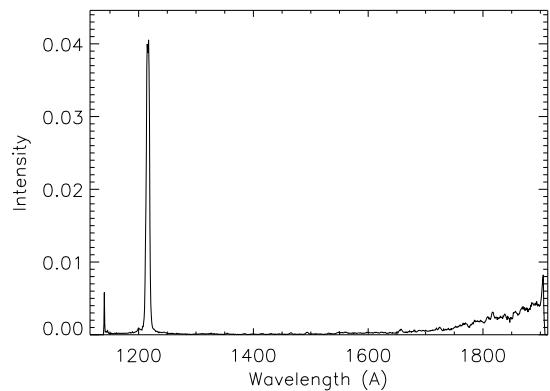


Figure 946: Spectra

body phase angle (deg): 129.3
distance (km): 110403.
Lon sub-s/c (180E): 204.2
Lat sub-s/c: 22.4
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 947: Geometry data

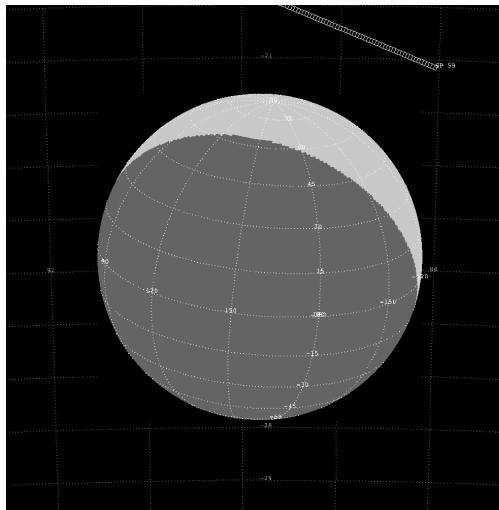


Figure 948: Frame 0

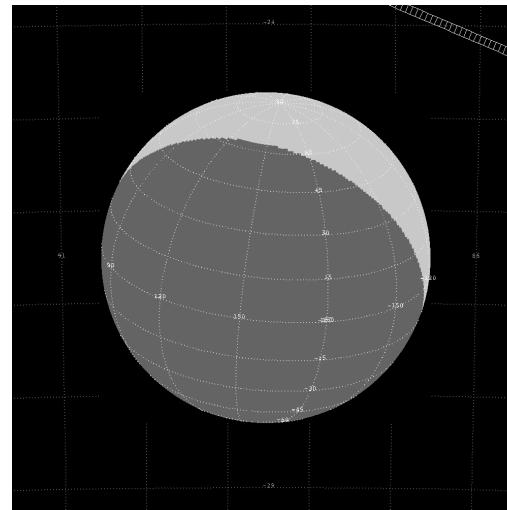


Figure 949: Frame 25

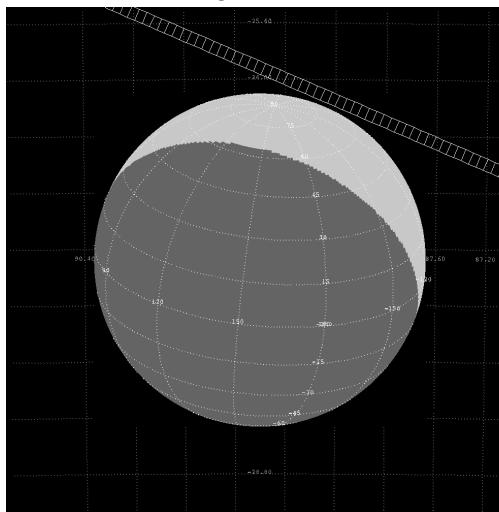


Figure 950: Frame 55

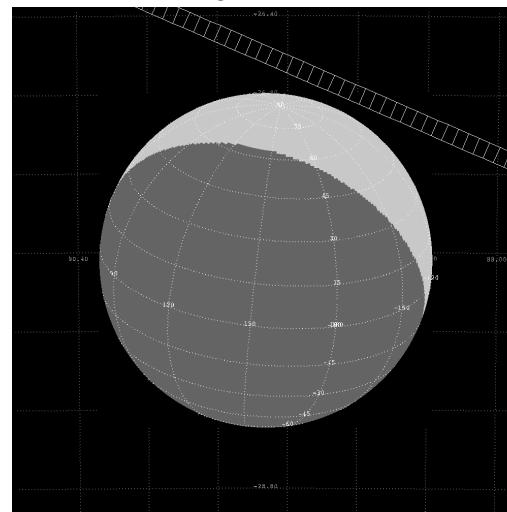


Figure 951: Frame 89

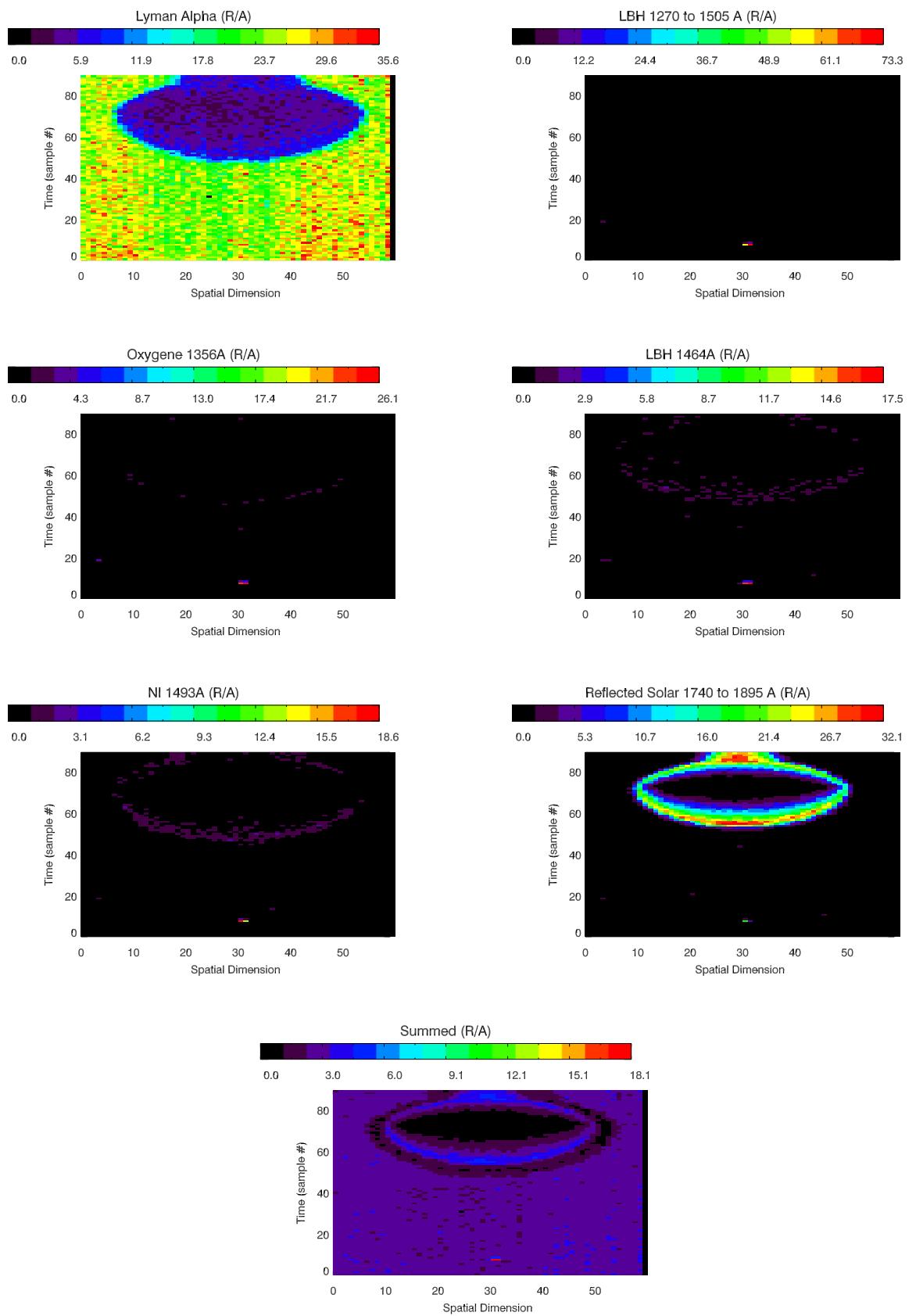


Figure 952: Panel of 7 detector images

EUV2016_270_19_22_41_UVIS_243TI_EUVFUV001_PRIME

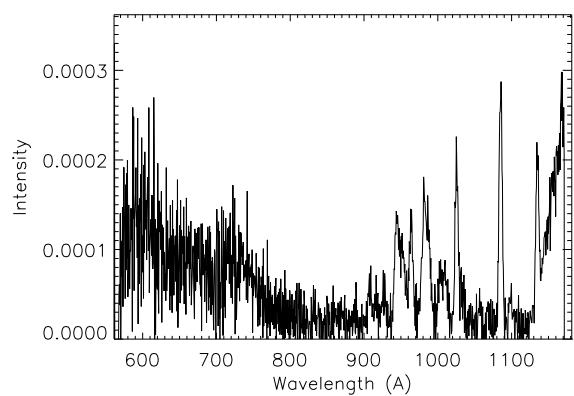


Figure 953: Spectra

body phase angle (deg): 69.0
distance (km): 110317.
Lon sub-s/c (180E): 46.9
Lat sub-s/c: -38.5
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 954: Geometry data

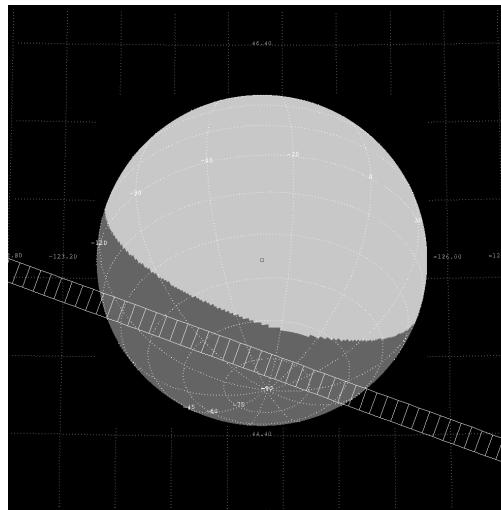


Figure 955: Frame 0

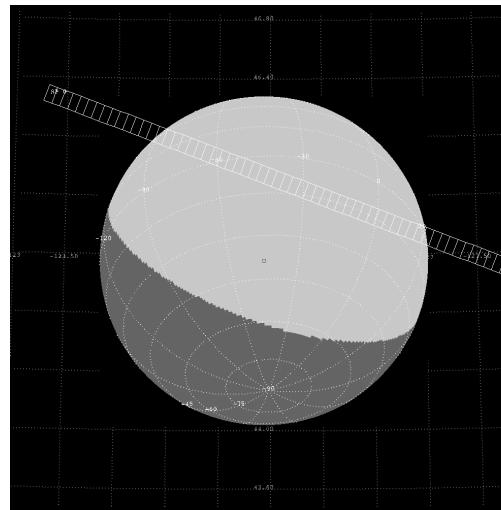


Figure 956: Frame 30

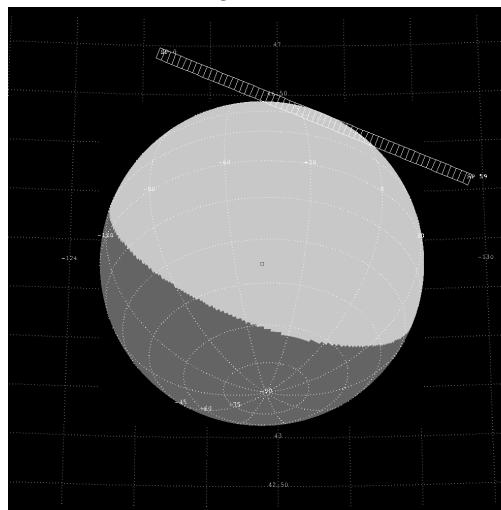


Figure 957: Frame 60

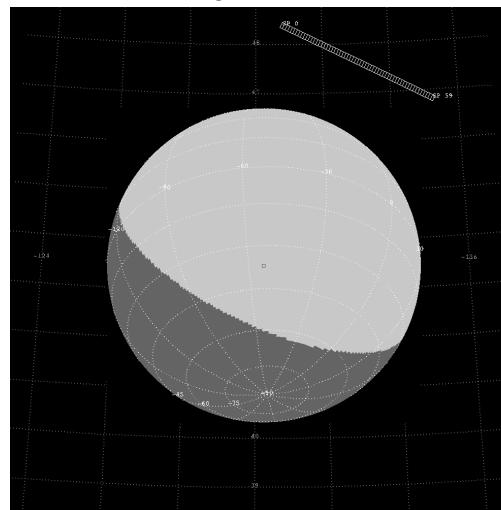


Figure 958: Frame 90

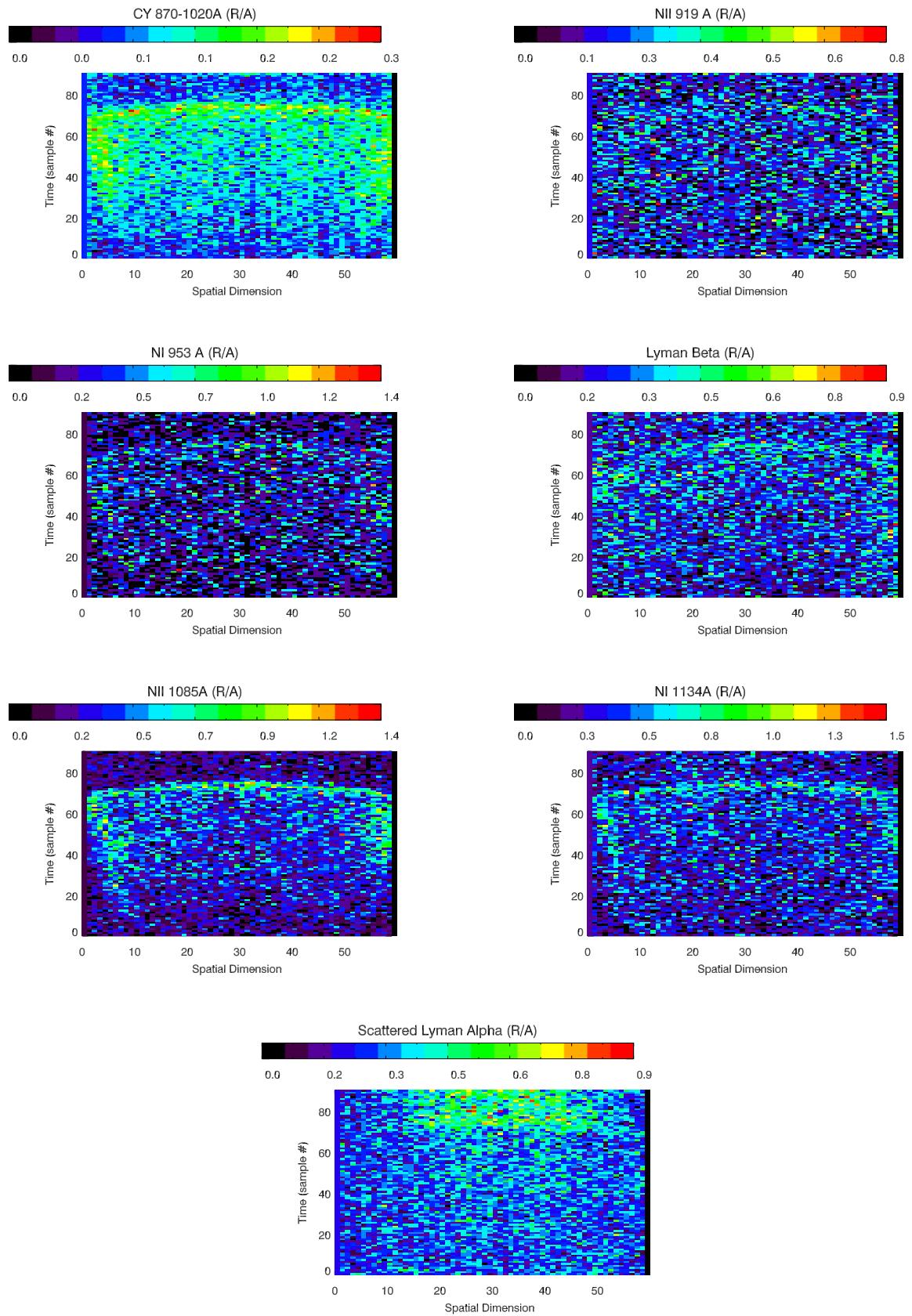


Figure 959: Panel of 7 detector images

FUV2016_270_19_22_41_UVIS_243TI_EUVFUV001_PRIME

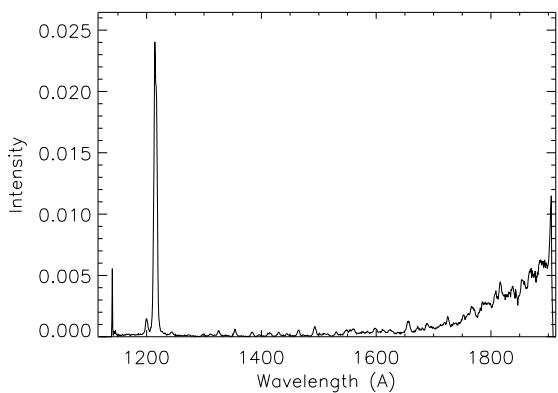


Figure 960: Spectra

body phase angle (deg): 69.0
distance (km): 110317.
Lon sub-s/c (180E): 46.9
Lat sub-s/c: -38.5
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 961: Geometry data

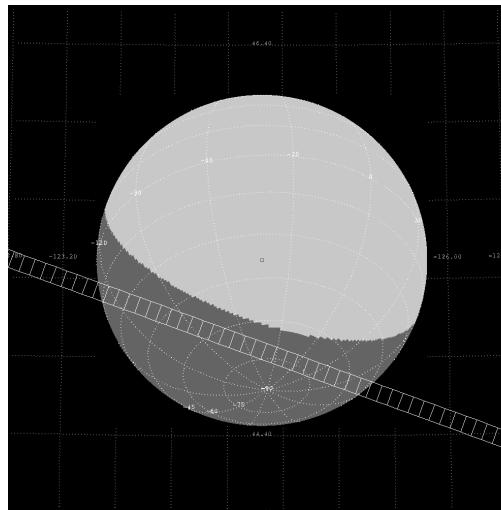


Figure 962: Frame 0

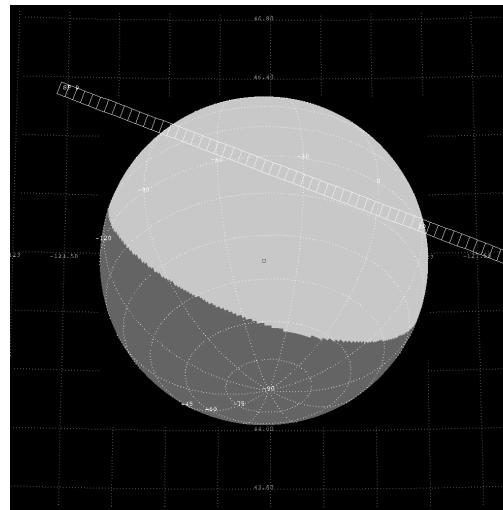


Figure 963: Frame 30

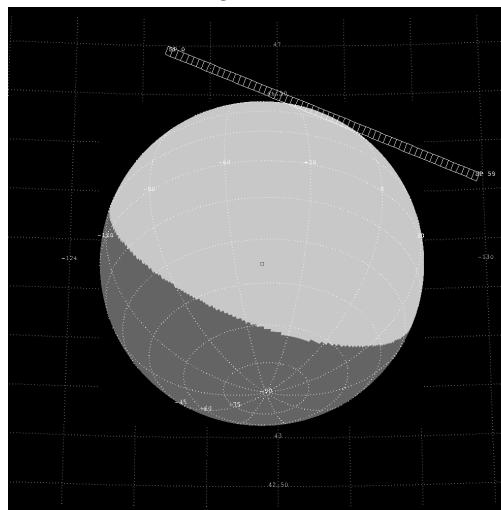


Figure 964: Frame 60

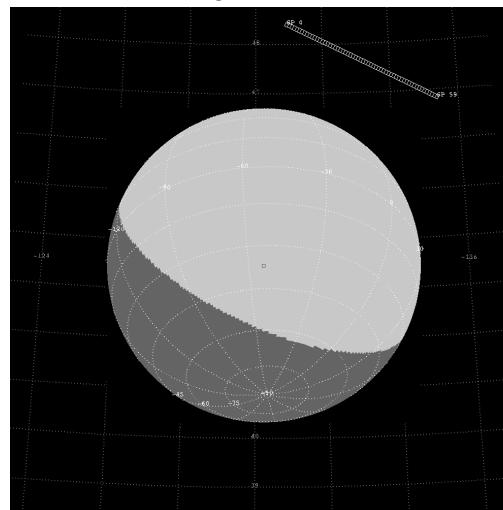


Figure 965: Frame 90

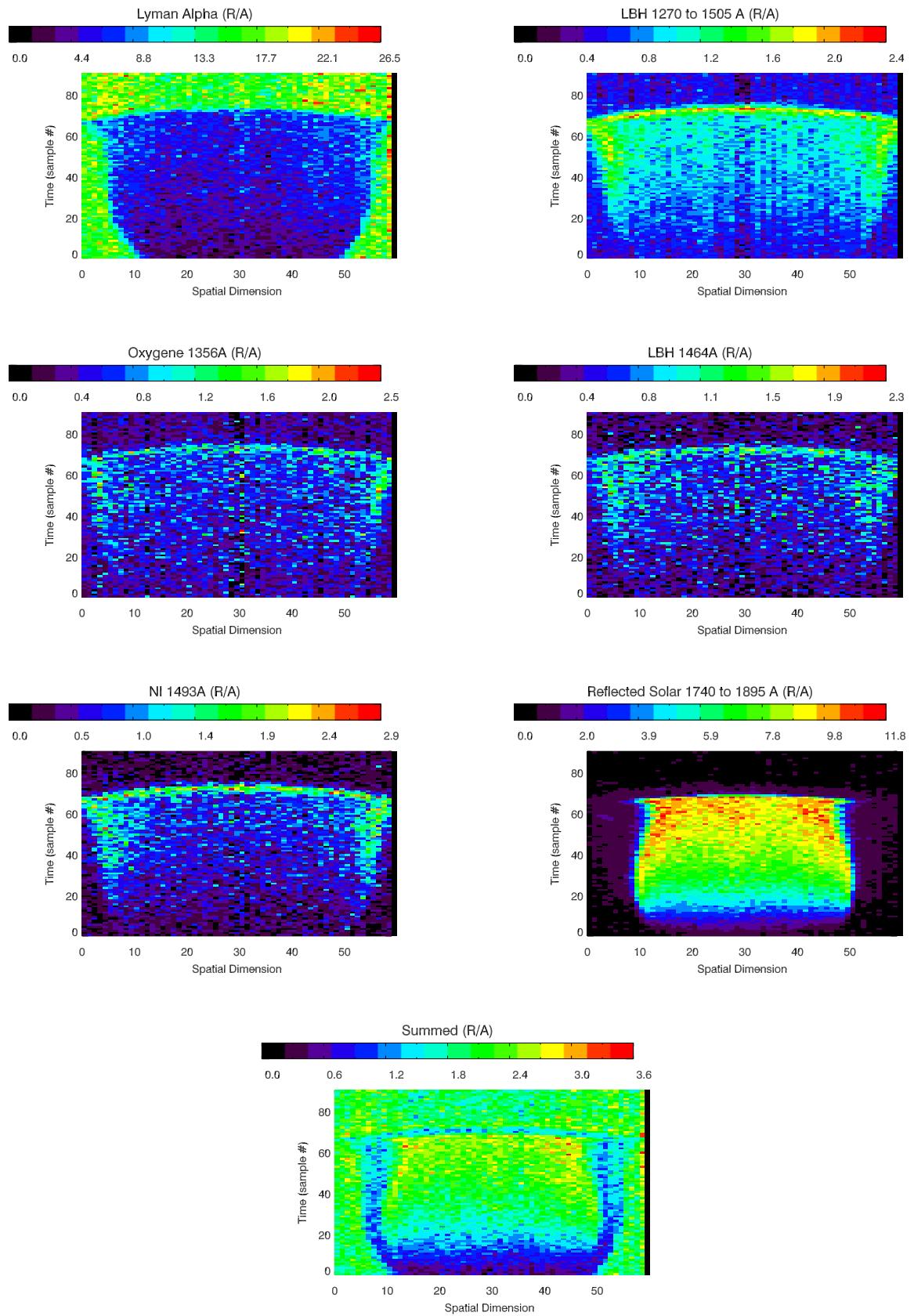


Figure 966: Panel of 7 detector images

EUV2016_271_06_39_11_UVIS_243TI_EUVFUV002_PRIME

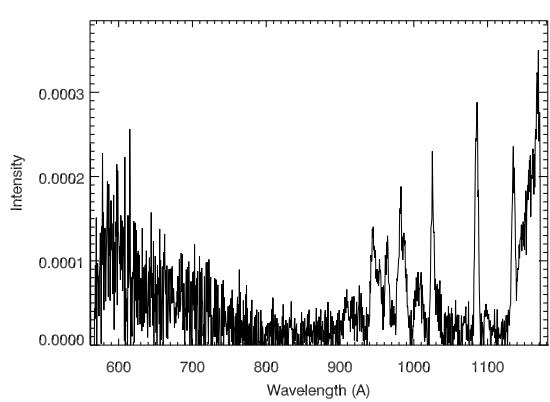


Figure 967: Spectra

body phase angle (deg): 111.1
distance (km): 110694.
Lon sub-s/c (180E): 239.9
Lat sub-s/c: 37.5
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 968: Geometry data

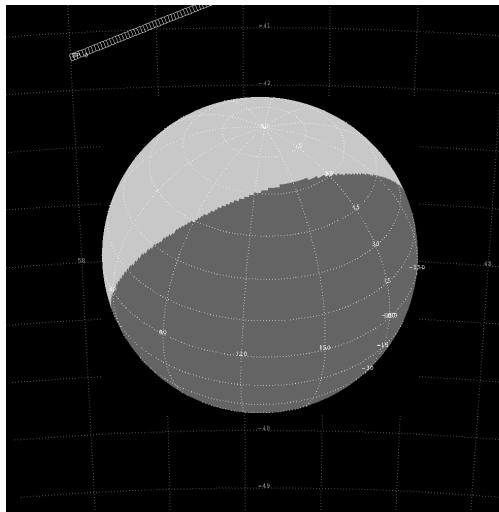


Figure 969: Frame 5

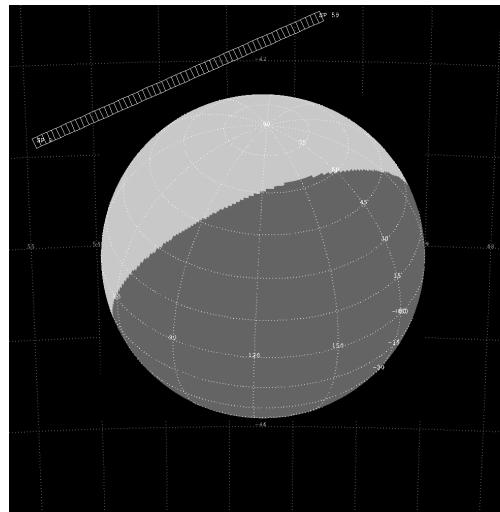


Figure 970: Frame 25

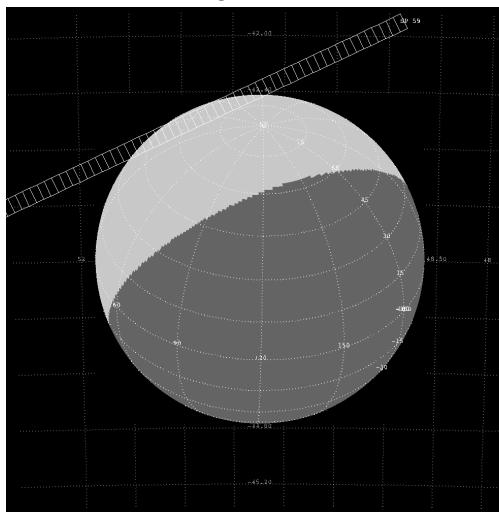


Figure 971: Frame 55

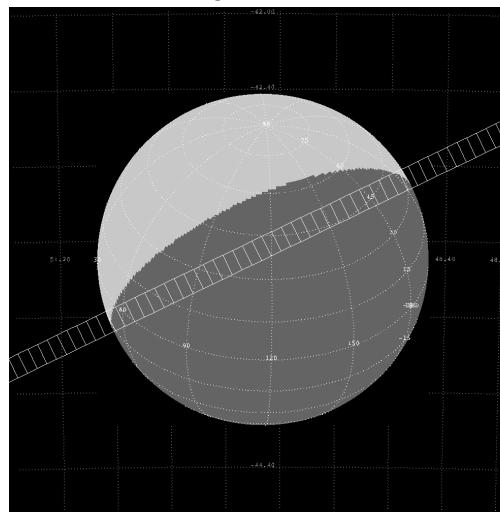


Figure 972: Frame 85

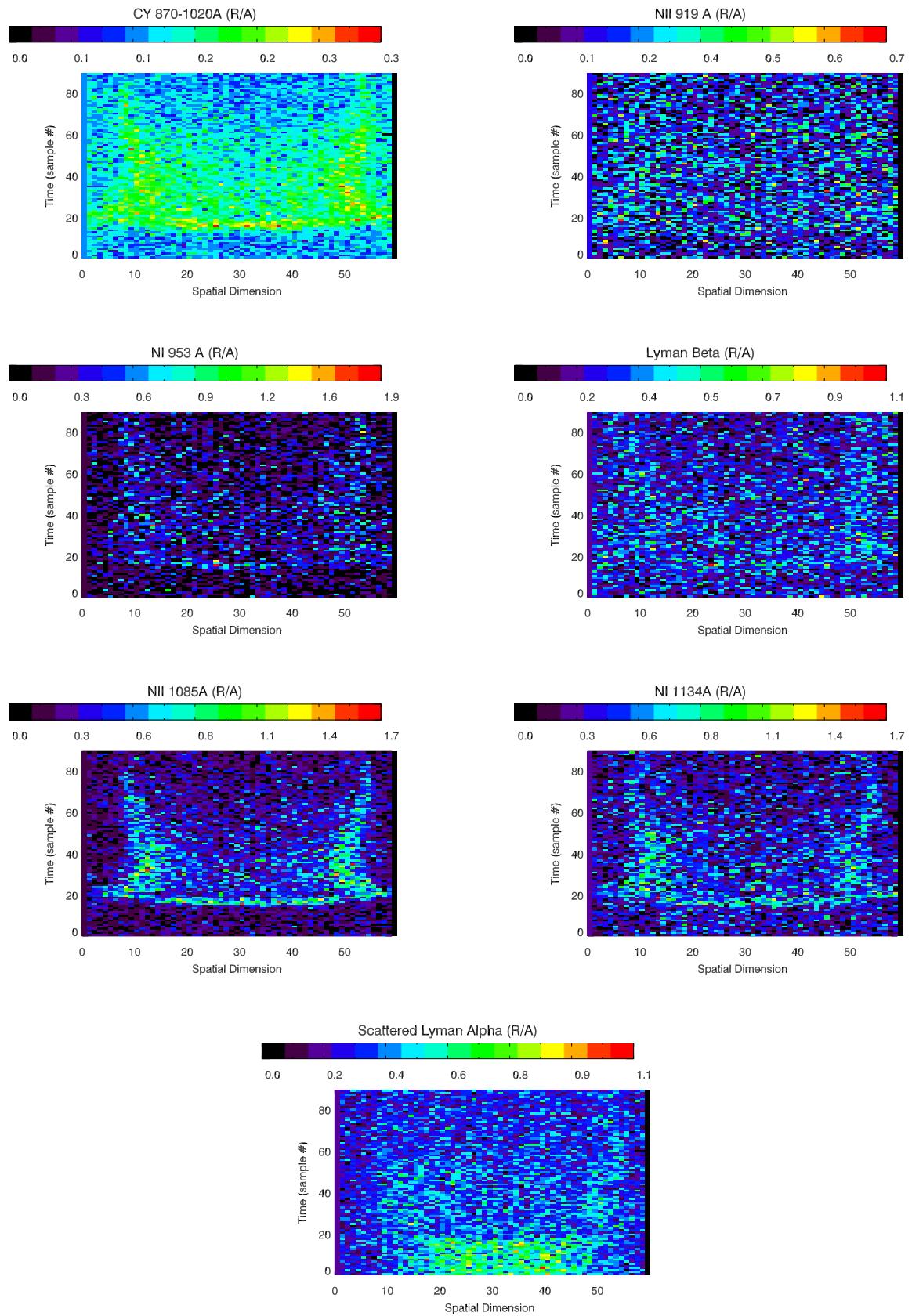


Figure 973: Panel of 7 detector images

FUV2016_271_06_39_11_UVIS_243TI_EUVFUV002_PRIME

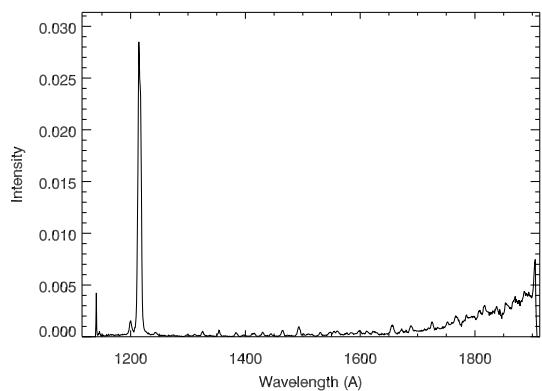


Figure 974: Spectra

body phase angle (deg): 111.1
distance (km): 110694.
Lon sub-s/c (180E): 239.9
Lat sub-s/c: 37.5
xbin: 1
ybin: 1
xmin: 0
xmax: 1023
ymin: 2
ymax: 61
integration (sec): 240

Figure 975: Geometry data

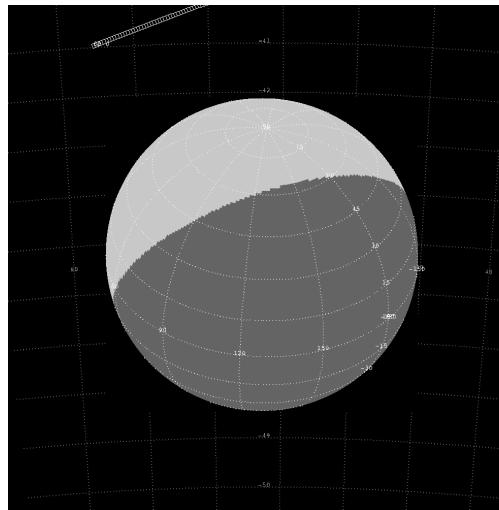


Figure 976: Frame 0

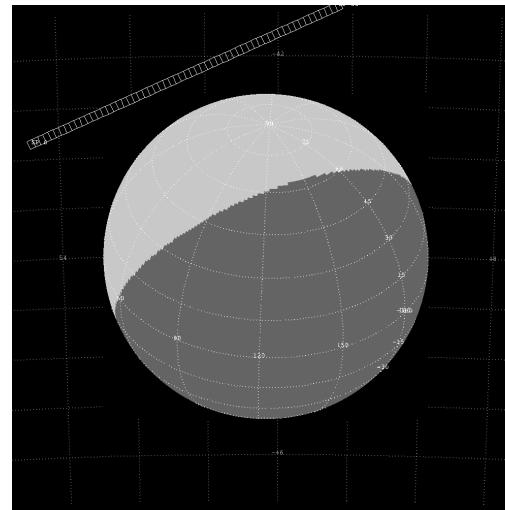


Figure 977: Frame 30

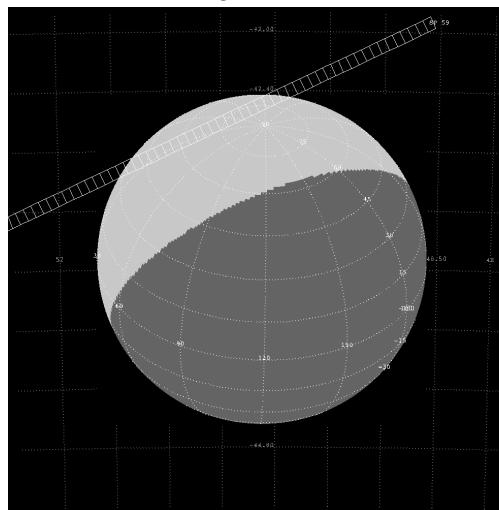


Figure 978: Frame 60

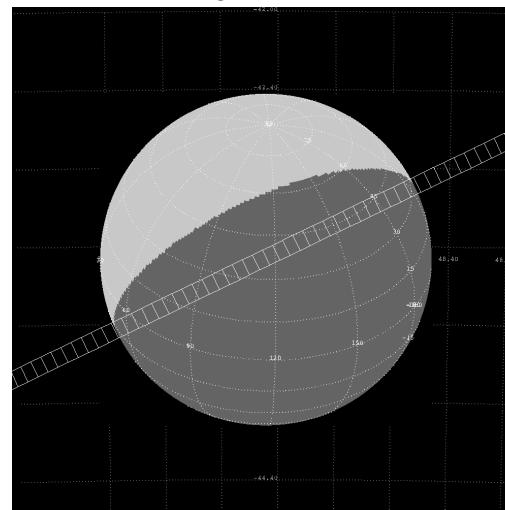


Figure 979: Frame 89

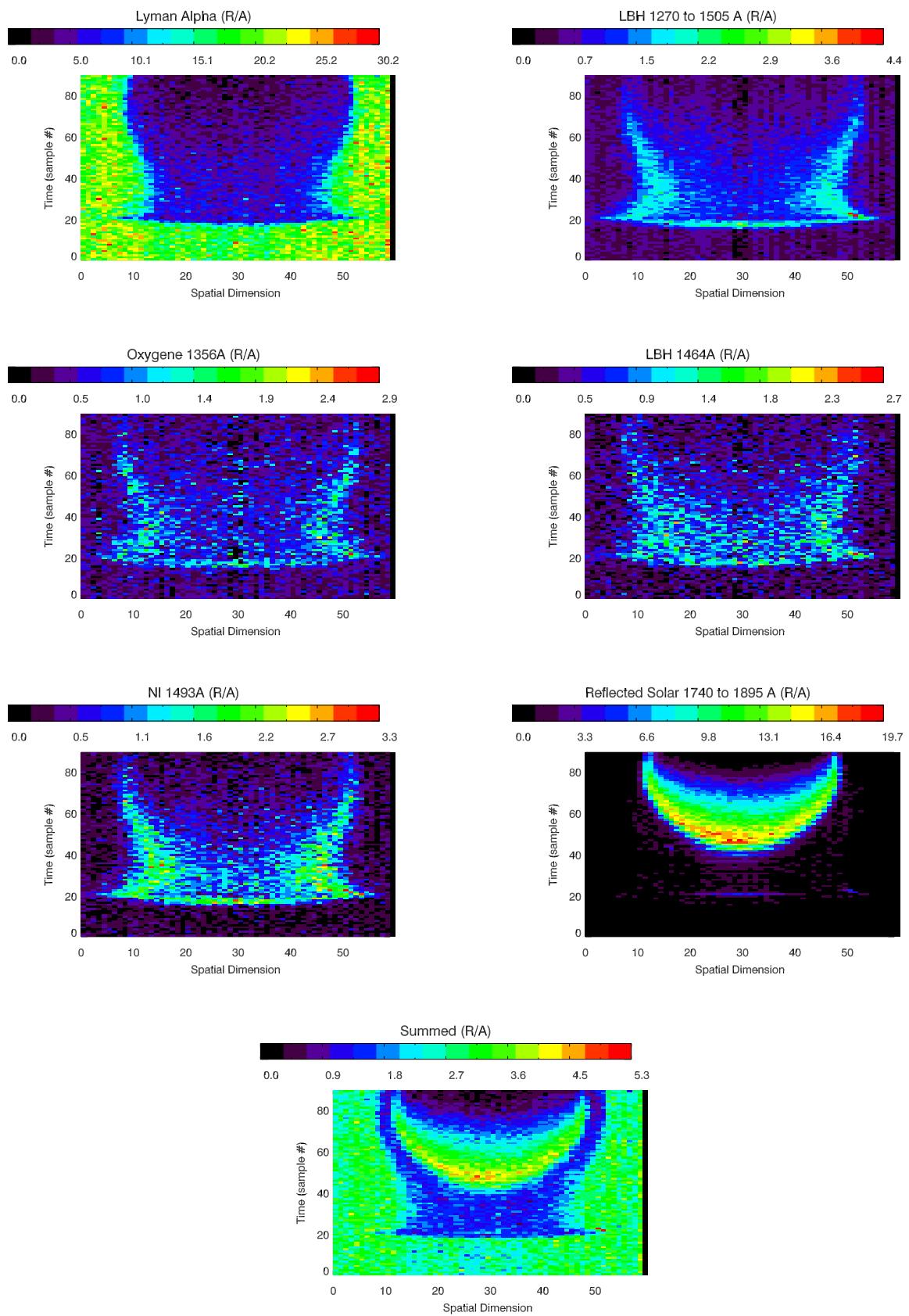


Figure 980: Panel of 7 detector images

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