

UVIS Rings Spectroscopy Atlas

The UVIS FUV and EUV channels have 64 X 1024 pixels spatial and spectral pixels each, respectively. For this document a “pixel” refers to the projection of a single pixel onto the ring plane. Due to the motion of the spacecraft during an integration period the projection of the pixel onto the ring plane may vary in location both radially and azimuthally, resulting in a “smeared” projected pixel. An observation typically consists of multiple integration periods, where each set of 64 X 1024 pixels of data constitute a single data record. For example an observation with 10 data records consists of 64 X 1024 X 10 pixels of data. Some observations were designed where the spectra were binned. For example spectral binning equal to 2 with 10 data records results in 64 X 512 X 10 separate pixels of data. The figures containing an axis or axes in units of Rs are in units of the dynamical radius of Saturn, which is 60330 km.

Incidence, emission, and phase angles range from 0°-180°, with 0° normal to the ring plane in the Saturn North Pole direction.

Top left: Projection of each smeared pixel for all data records in ring plane looking down on Saturn North pole with Sun to the left. The color code is rainbow from IDL color palette 13 and is normalized with violet and red corresponding to the lowest and highest count rates, respectively.

Top center: Example of the movement of a single projected pixel from start to finish of the integration period.

Middle left: Distance of the spacecraft from the ring plane for each projected pixel for all data records plotted against the radial location of the center of the projected pixel at the middle of the integration period.

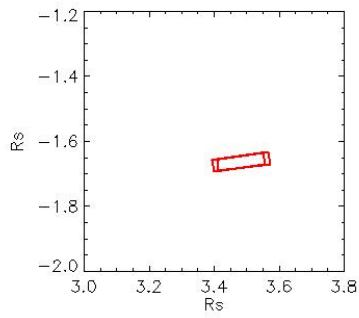
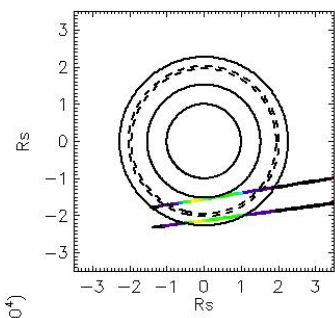
Middle center: Maximum projected smeared pixel size for all data records plotted against the radial location of the projected pixel at the middle of the integration period.

Middle right: Phase, incidence, and emission angles for each pixel for all data records at the middle of the integration period.

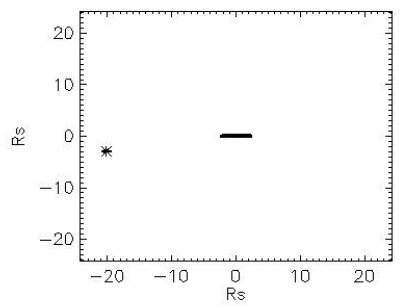
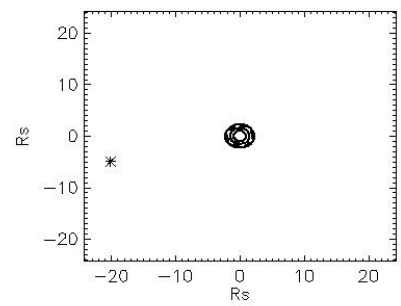
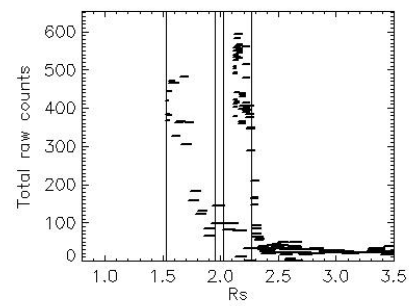
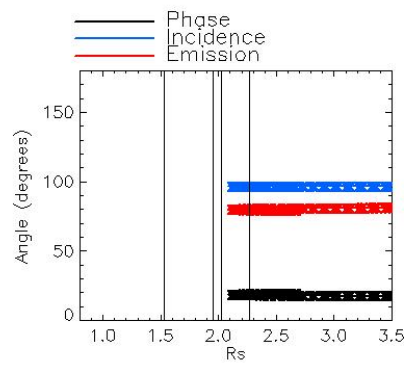
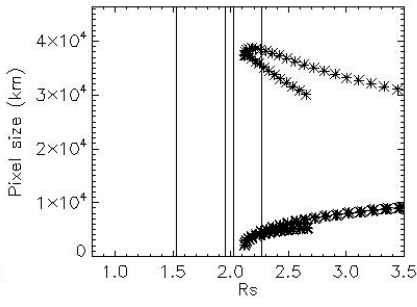
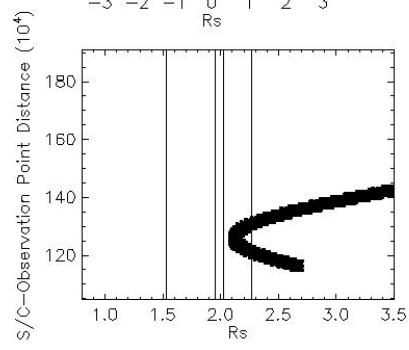
Bottom left: Total raw counts from 175.2 – 189.8 nm for each pixel for all data records.

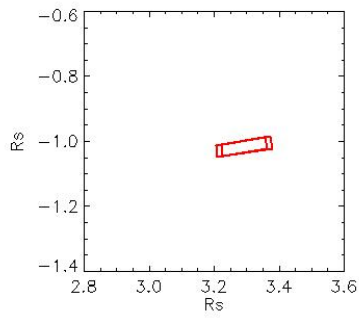
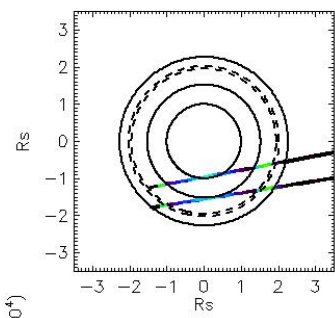
Bottom center: Location of spacecraft throughout an observation looking down on Saturn North Pole with the Sun to the left.

Bottom right: Location of spacecraft throughout an observation looking in the equatorial plane with the Sun to the left.

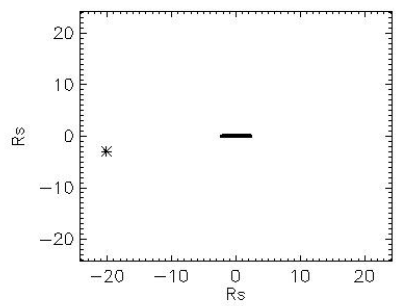
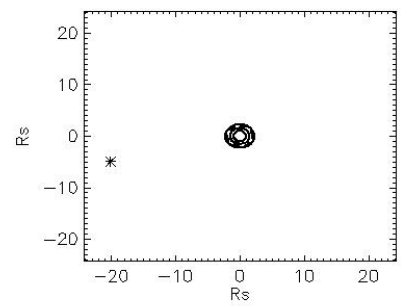
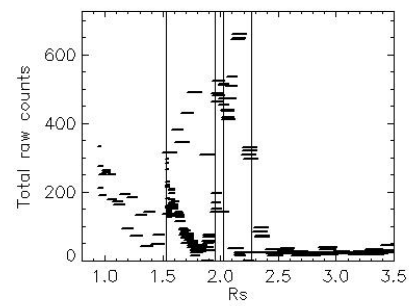
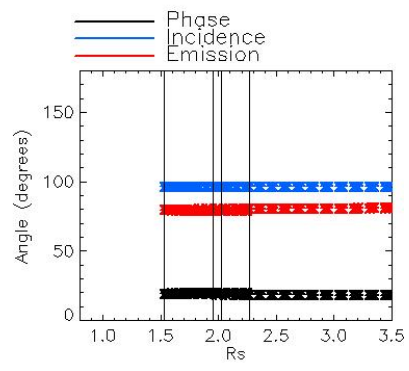
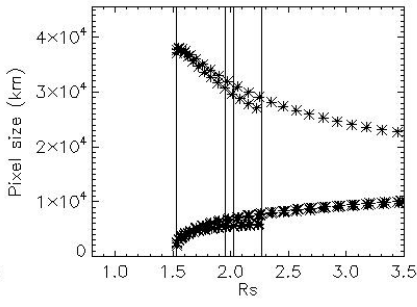
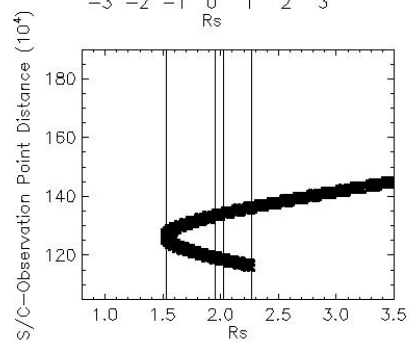


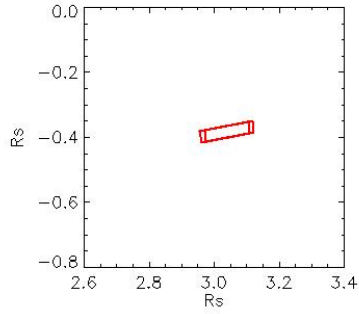
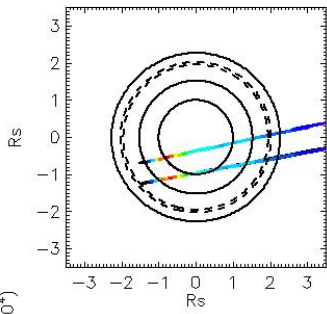
Observation Name:
 UVS_071RLAPOMOSAIC001_VIMS
 Observation Date:
 2008_157_11_50_21
 Observation Duration:
 1500 S
 Integration time = 300 S





Observation Name:
 UVS_071RLAPOMOSAIC001_VIMS
 Observation Date:
 2008_157_12_16_08
 Observation Duration:
 1500 S
 Integration time = 300 S



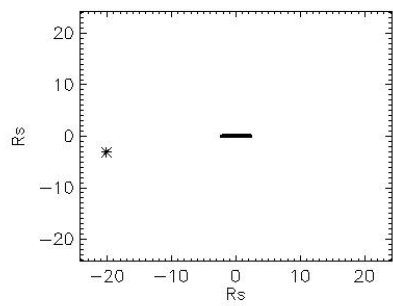
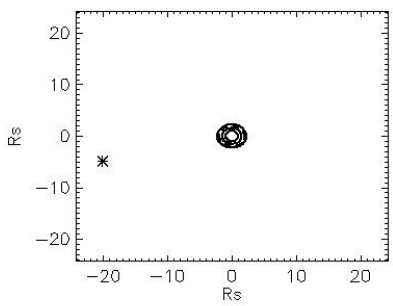
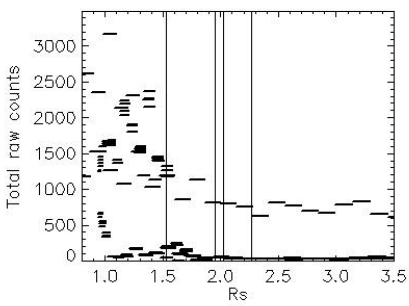
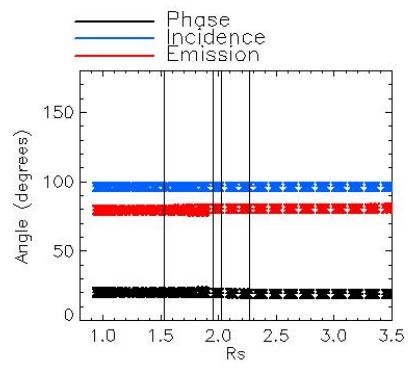
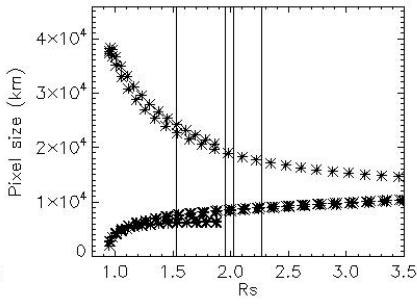
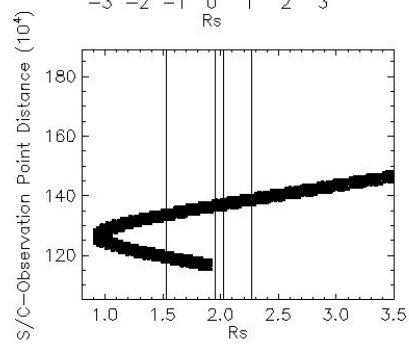


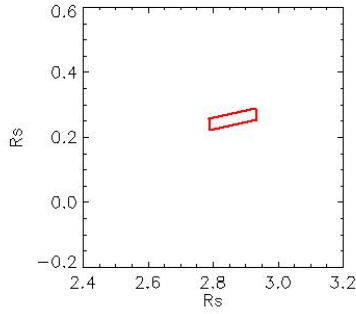
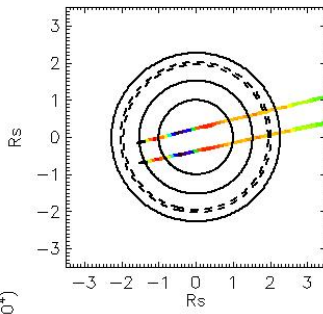
Observation Name:
UVS_071RLAPOMOSAIC001_VIMS

Observation Date:
2008_157_12_41_54

Observation Duration:
1500 S

Integration time = 300 S



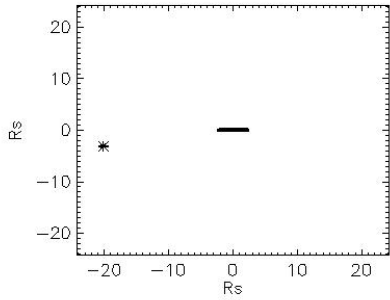
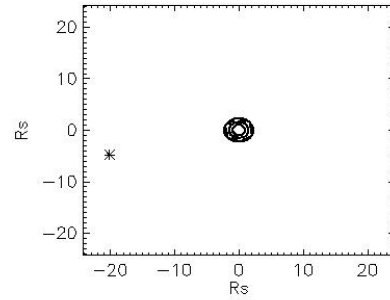
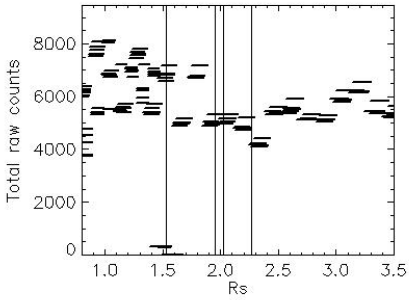
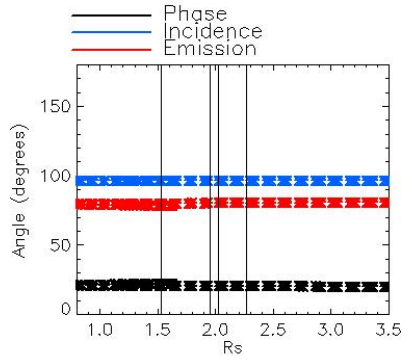
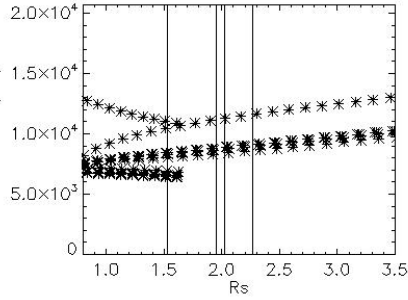
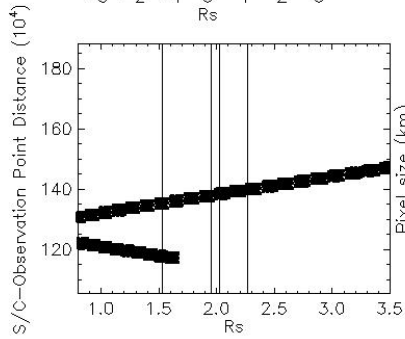


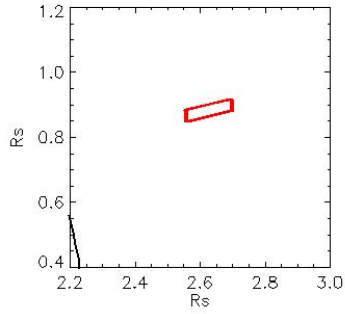
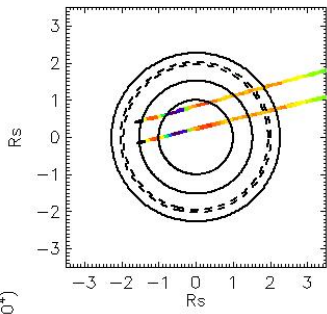
Observation Name:
UVS_071RLAPOMOSAIC001_VIMS

Observation Date:
2008_157_13_07_40

Observation Duration:
1500 S

Integration time = 300 S



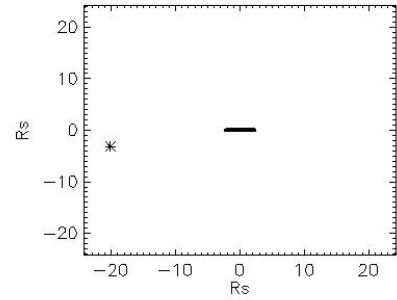
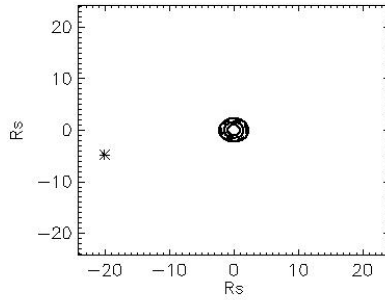
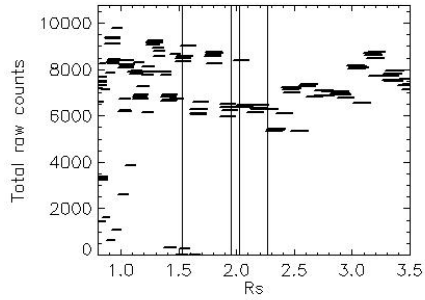
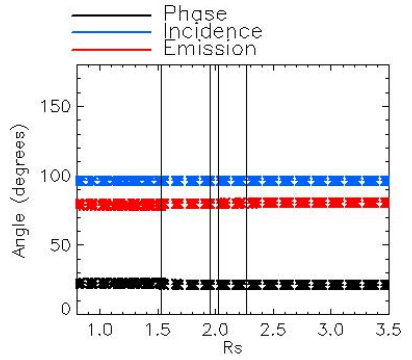
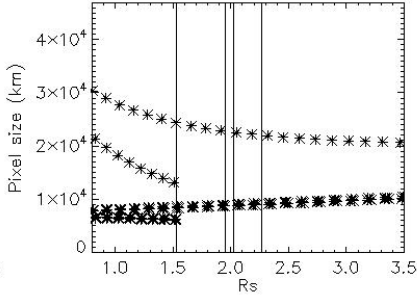
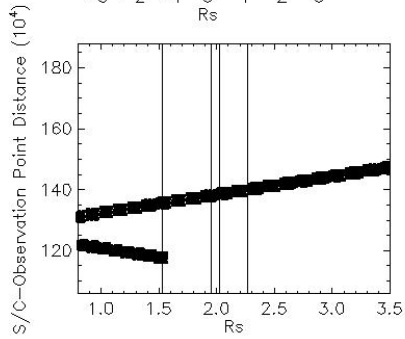


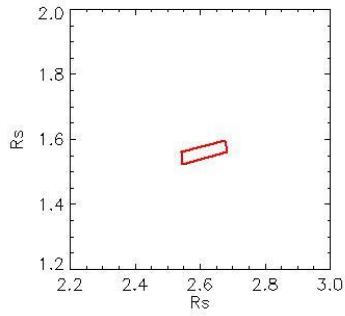
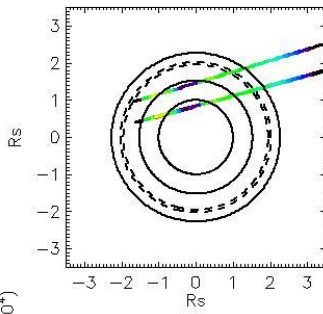
Observation Name:
UVS_071RLAPOMOSAIC001_VIMS

Observation Date:
2008_157_13_33_26

Observation Duration:
1500 S

Integration time = 300 S



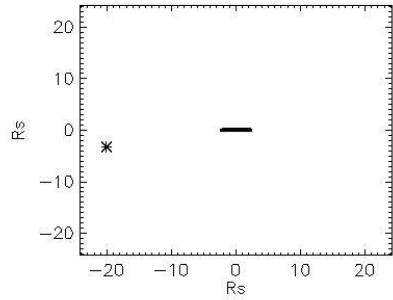
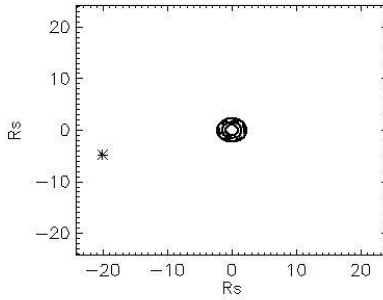
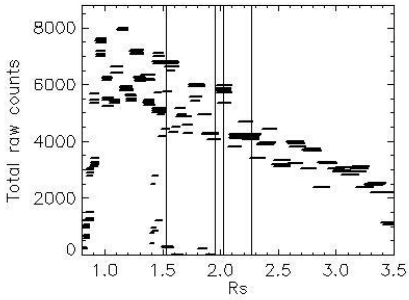
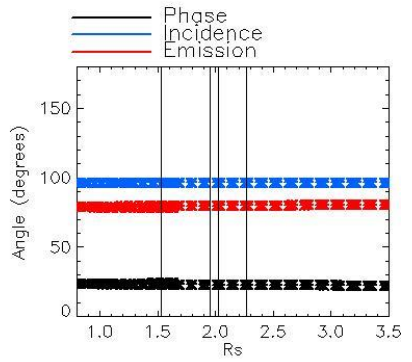
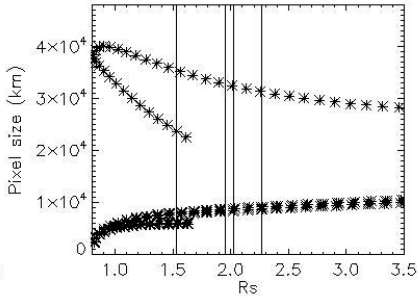
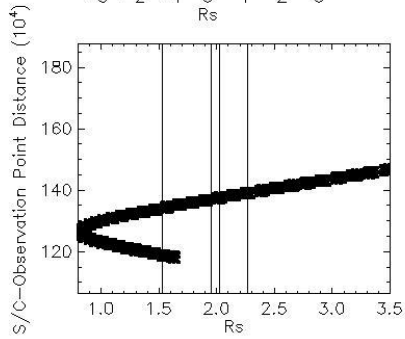


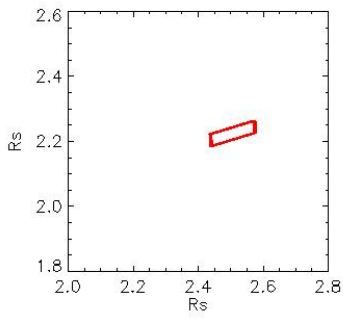
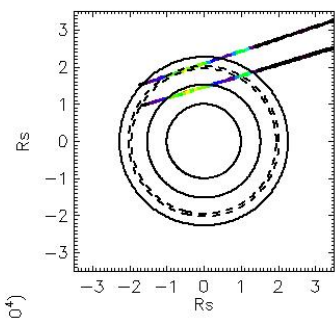
Observation Name:
UMS_071RLAPOMOSAIC001_VIMS

Observation Date:
2008_157_13_59_12

Observation Duration:
1500 S

Integration time = 300 S



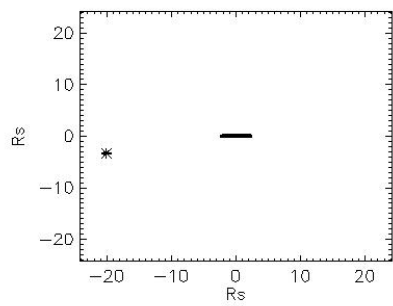
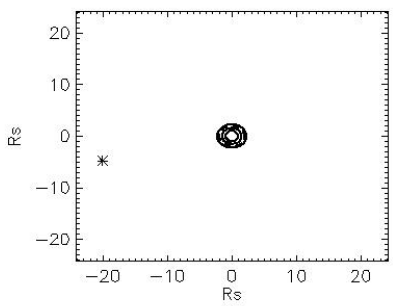
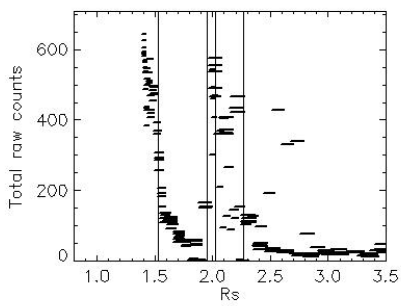
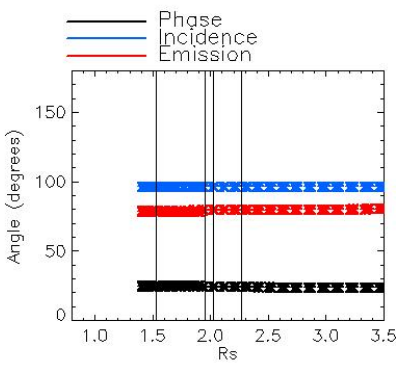
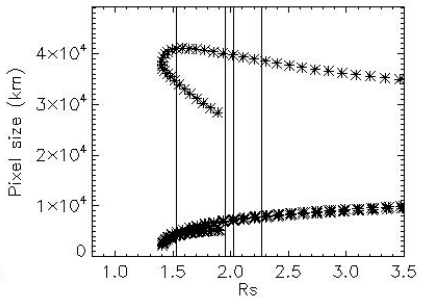
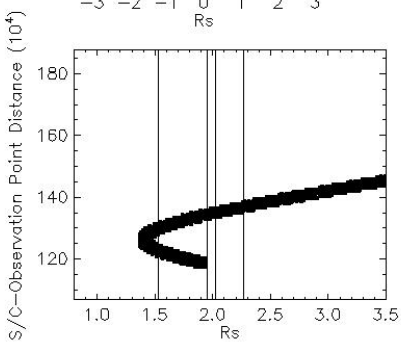


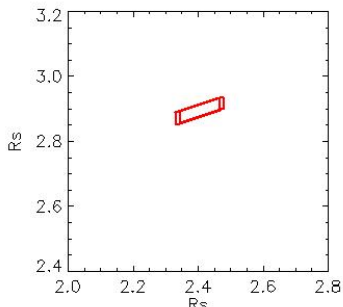
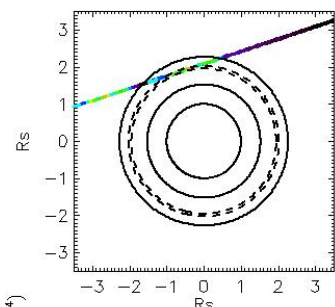
Observation Name:
UVIS_071RLAPOMOSAIC001_VIMS

Observation Date:
2008_157_14_24_58

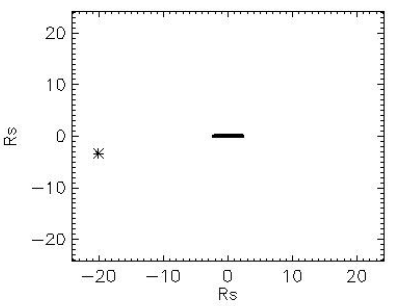
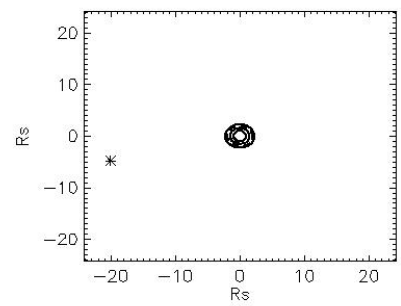
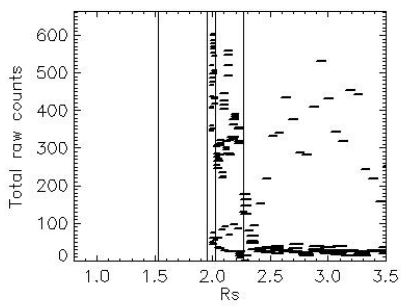
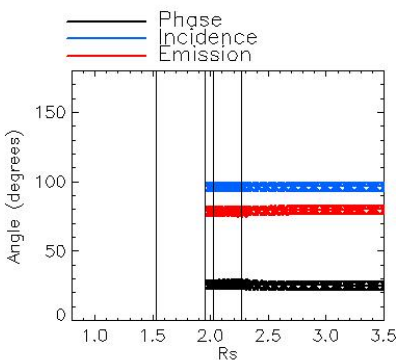
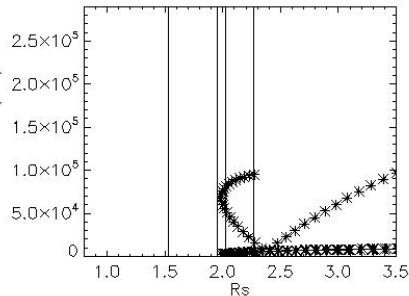
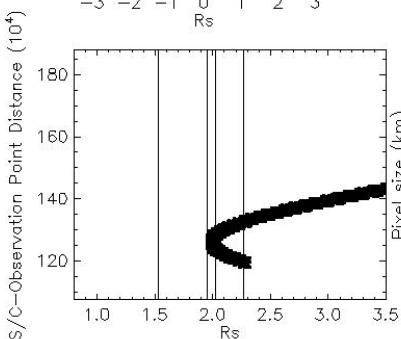
Observation Duration:
1500 S

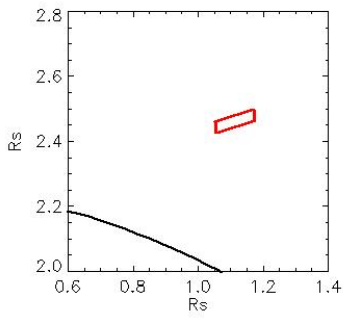
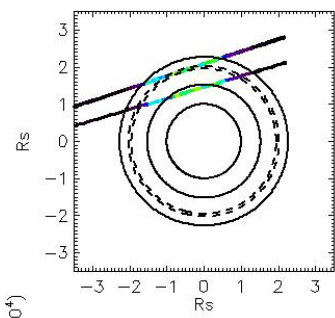
Integration time = 300 S





Observation Name:
 UVS_071RLAPOMOSAIC001_VIMS
 Observation Date:
 2008_157_14_50_44
 Observation Duration:
 1500 S
 Integration time = 300 S



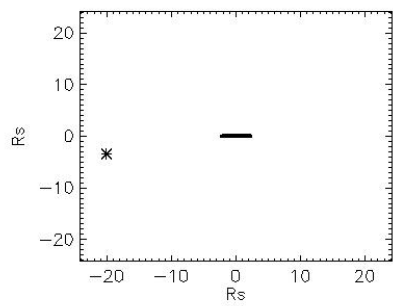
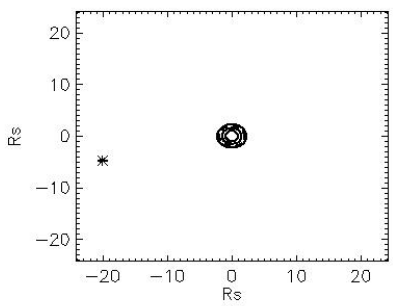
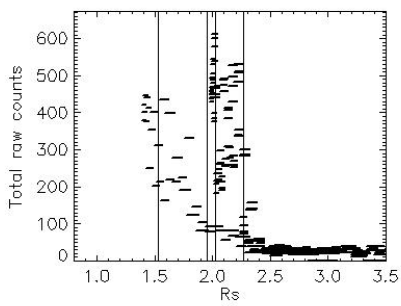
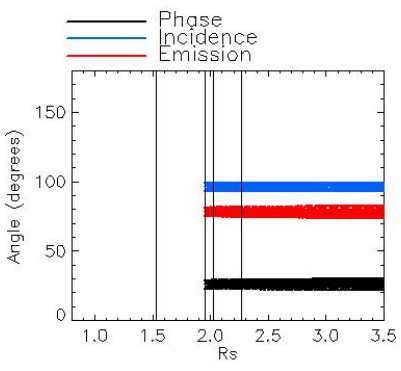
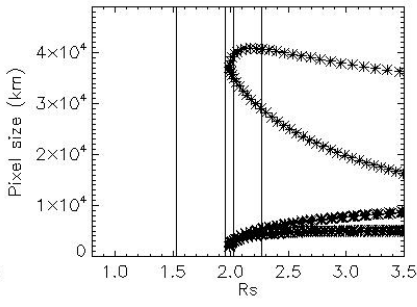
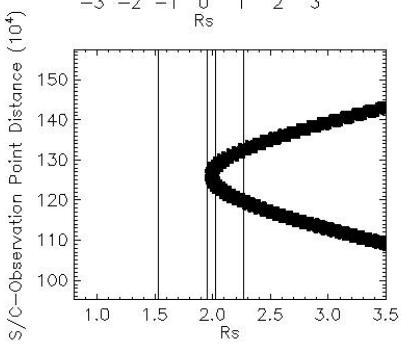


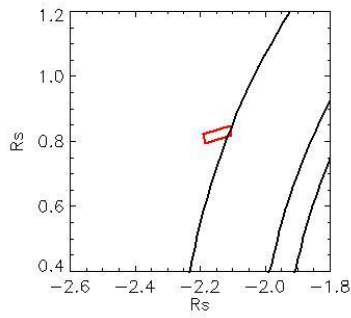
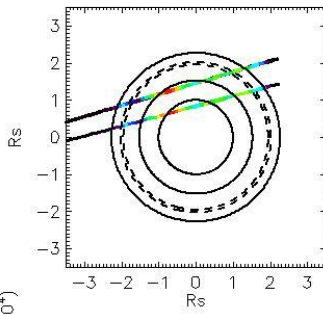
Observation Name:
UVS_071RLAPOMOSAIC001_VIMS

Observation Date:
2008_157_15_17_08

Observation Duration:
1500 S

Integration time = 300 S





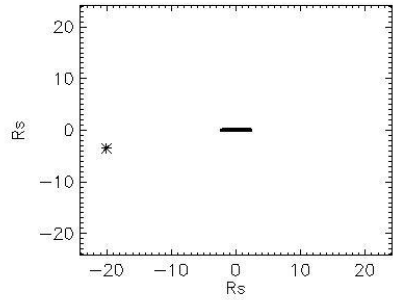
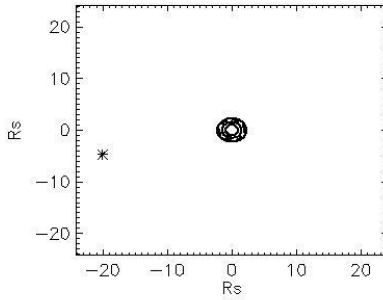
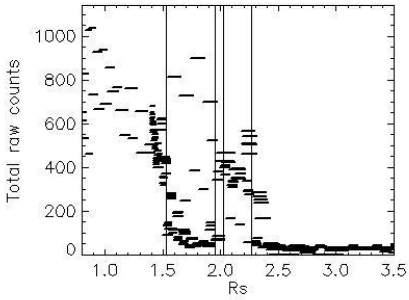
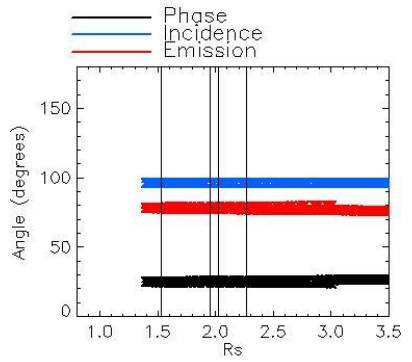
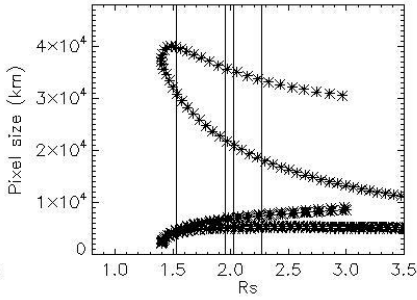
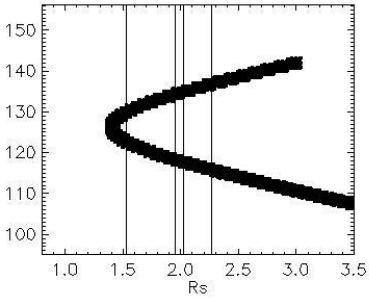
Observation Name:
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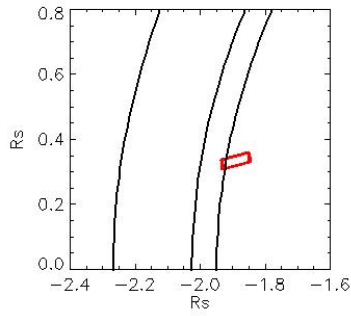
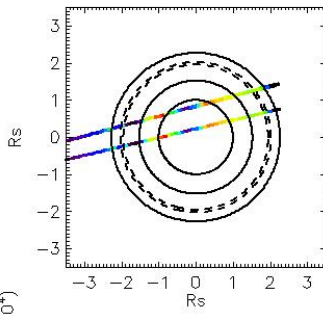
Observation Date:
2008_157_15_42_54

Observation Duration:
1500 S

Integration time = 300 S

S/C—Observation Point Distance (10^4)



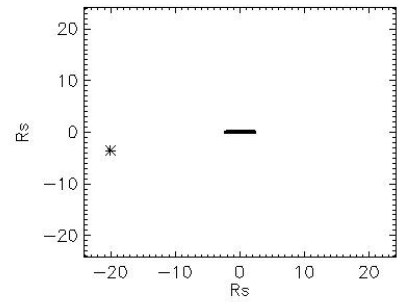
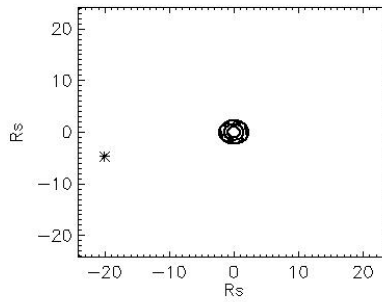
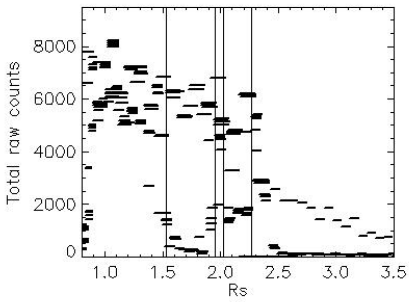
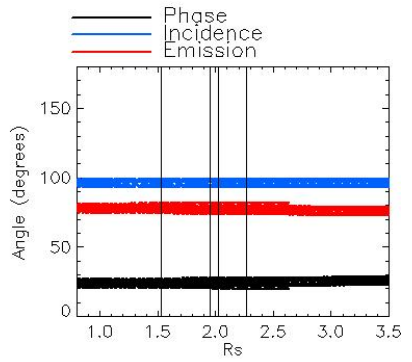
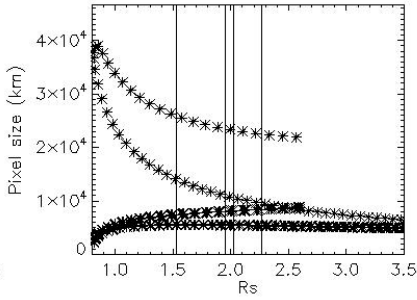
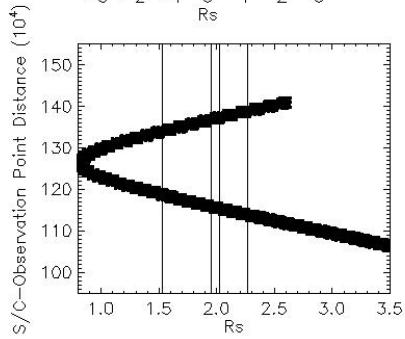


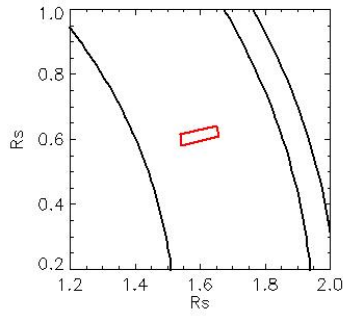
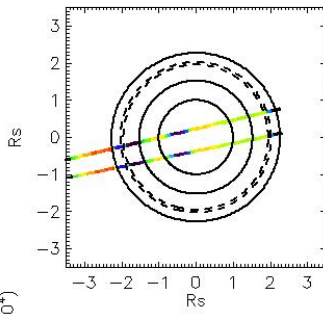
Observation Name:
UVS_071RLAPOMOSAIC001_VIMS

Observation Date:
2008_157_16_08_40

Observation Duration:
1500 S

Integration time = 300 S



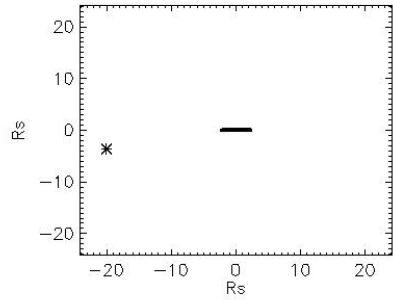
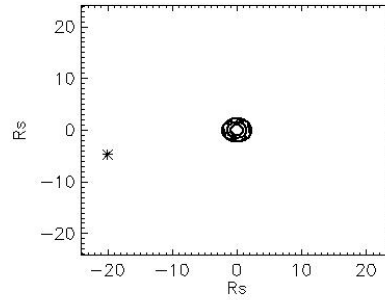
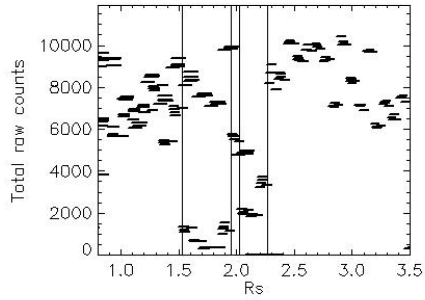
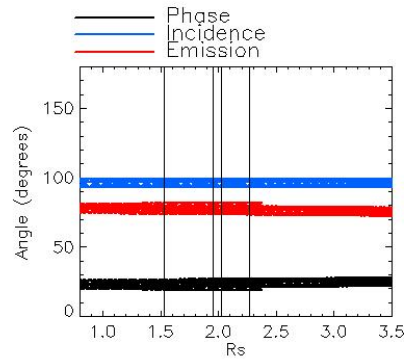
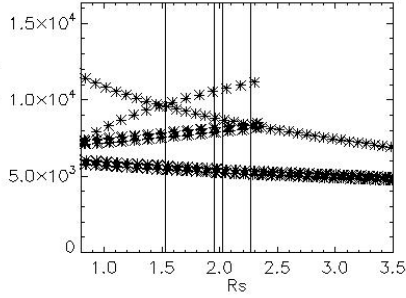
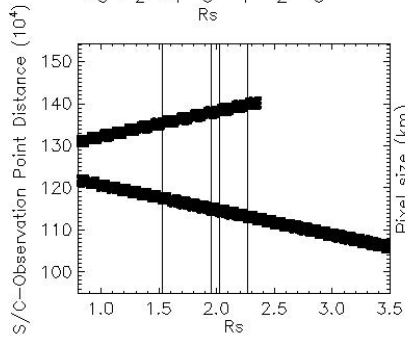


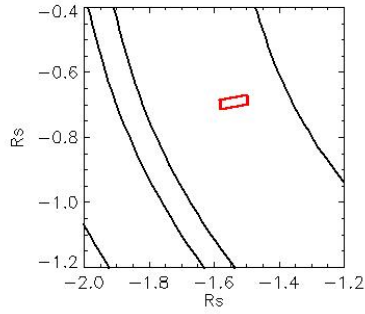
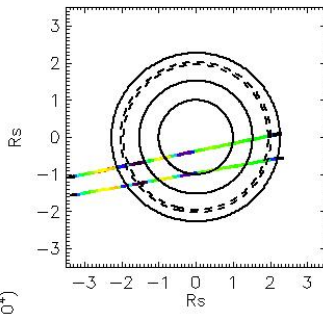
Observation Name:
UVS_071RLAPOMOSAIC001_VIMS

Observation Date:
2008_157_16_34_26

Observation Duration:
1500 S

Integration time = 300 S



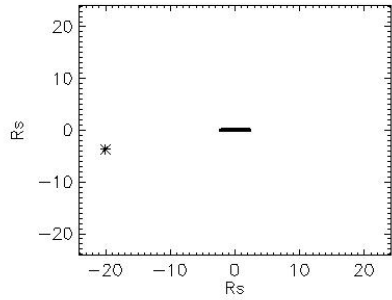
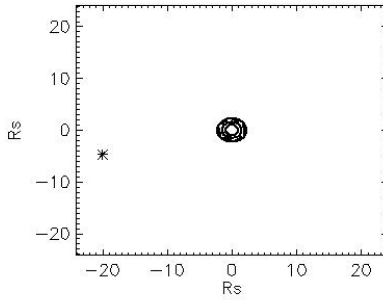
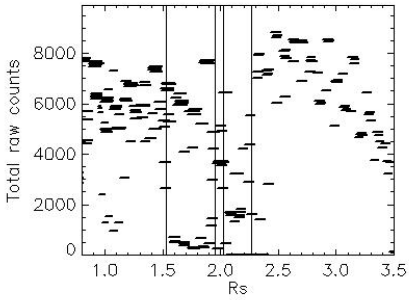
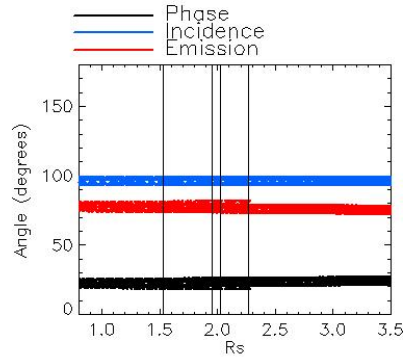
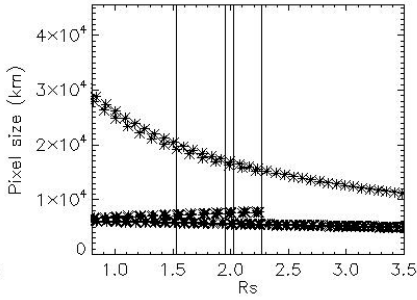
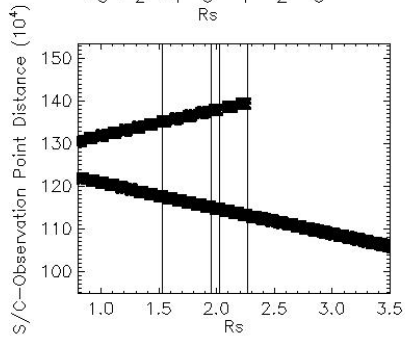


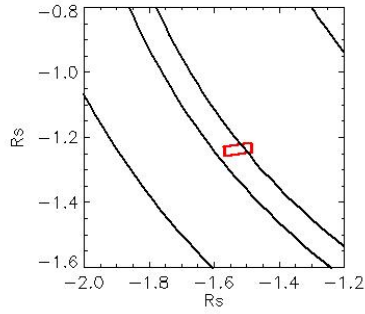
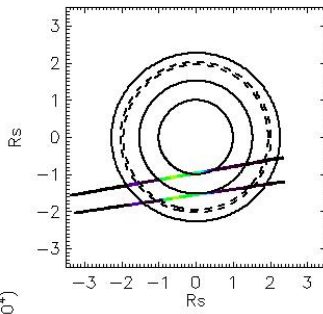
Observation Name:
UVS_071RLAPOMOSAIC001_VIMS

Observation Date:
2008_157_17_00_12

Observation Duration:
1500 S

Integration time = 300 S



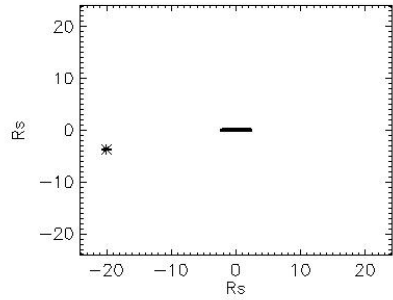
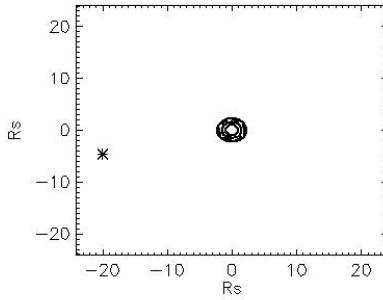
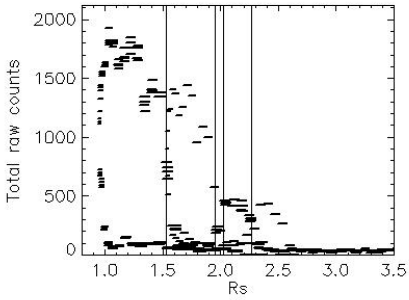
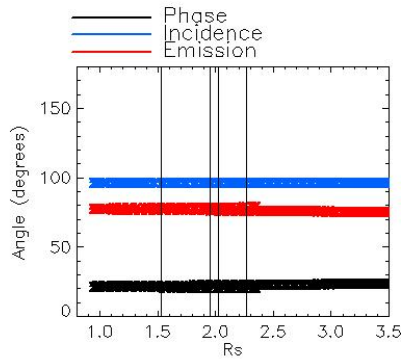
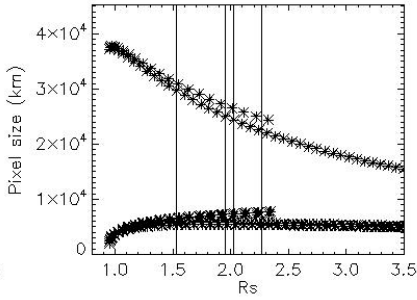
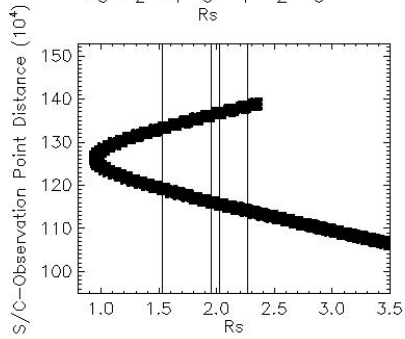


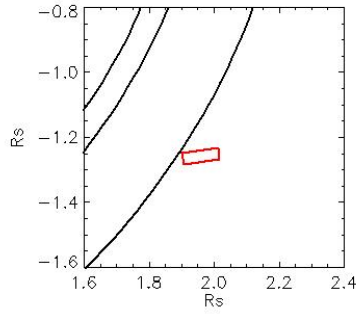
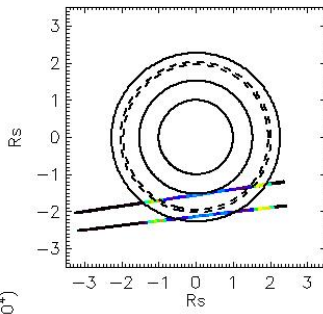
Observation Name:
UVS_071RLAPOMOSAIC001_VIMS

Observation Date:
2008_157_17_25_58

Observation Duration:
1500 S

Integration time = 300 S



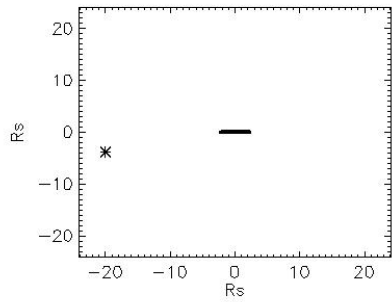
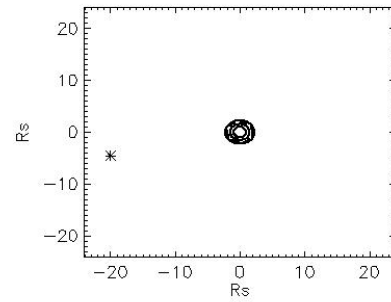
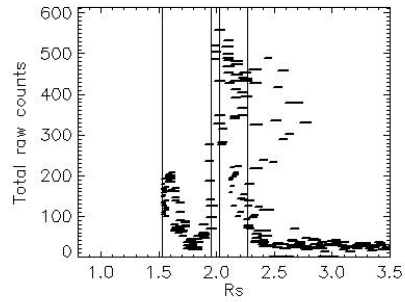
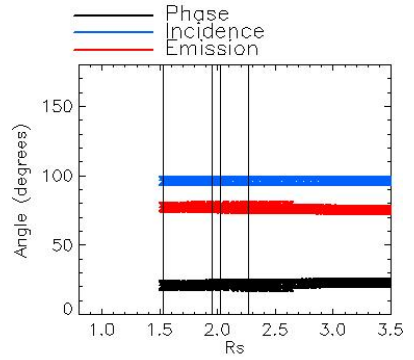
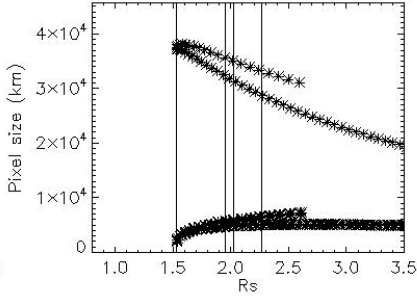
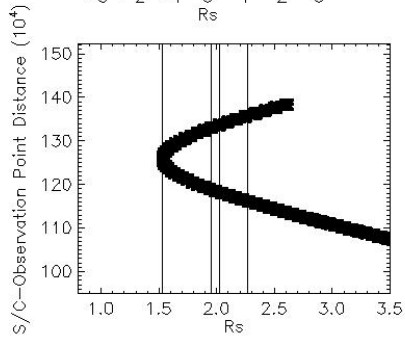


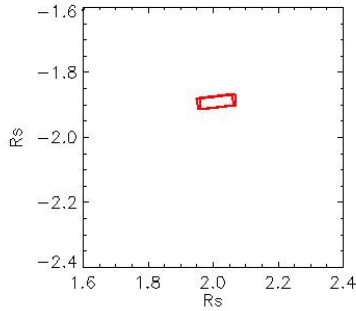
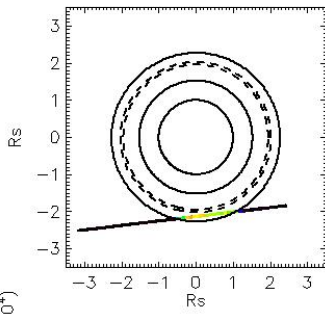
Observation Name:
UMS_071RLAPOMOSAIC001_VIMS

Observation Date:
2008_157_17_51_44

Observation Duration:
1500 S

Integration time = 300 S



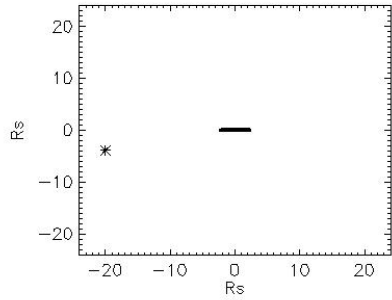
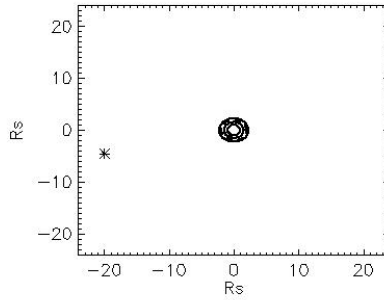
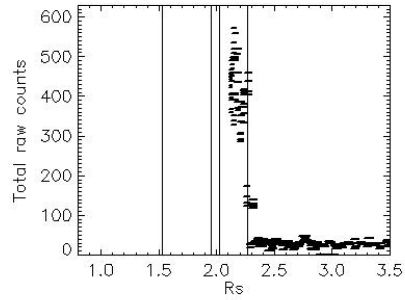
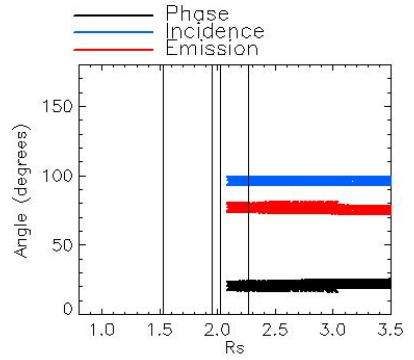
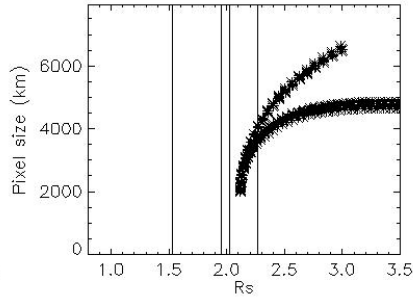
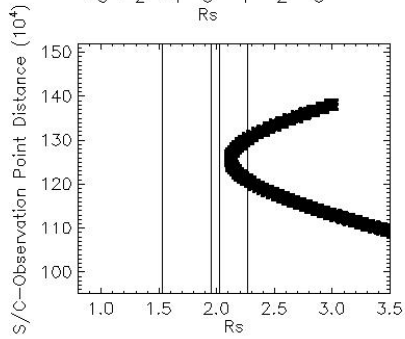


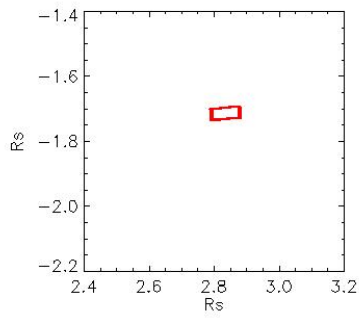
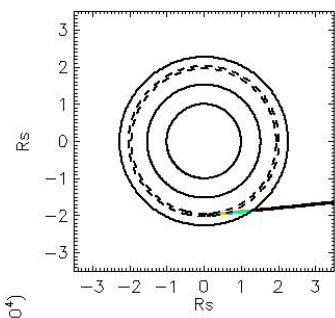
Observation Name:
UVS_071RLAPOMOSAIC001_VIMS

Observation Date:
2008_157_18_17_30

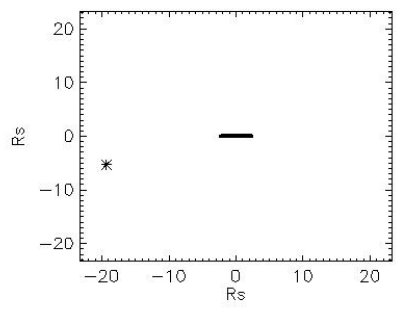
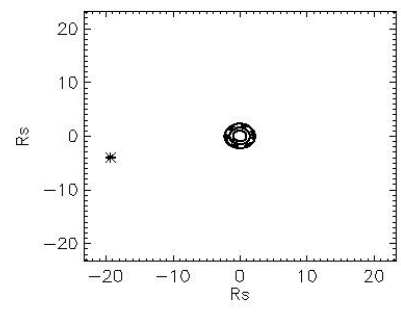
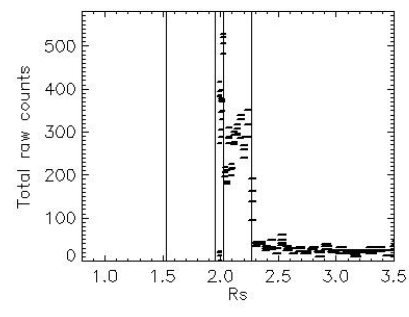
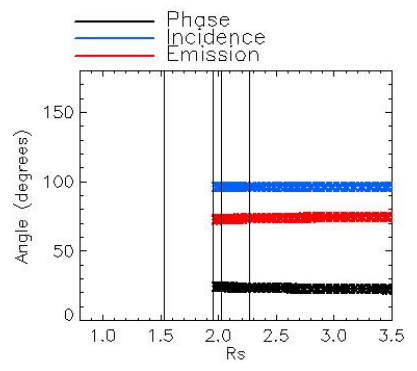
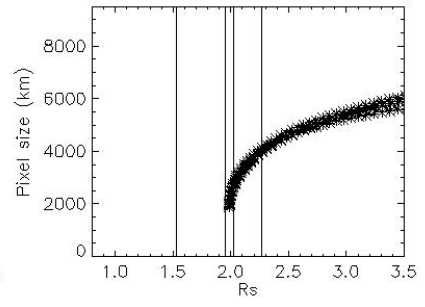
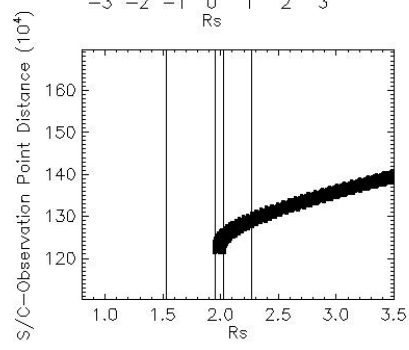
Observation Duration:
1200 S

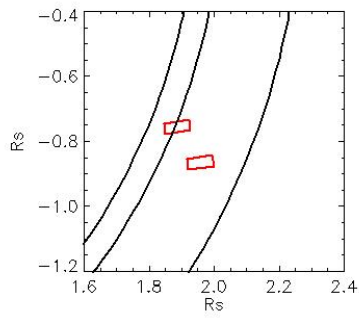
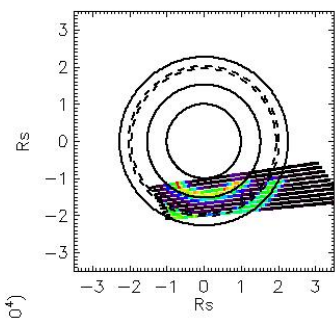
Integration time = 300 S





Observation Name:
 UVS_071RLSUBMU17LP001_CIRS
 Observation Date:
 2008_158_04_50_51
 Observation Duration:
 1200 S
 Integration time = 300 S



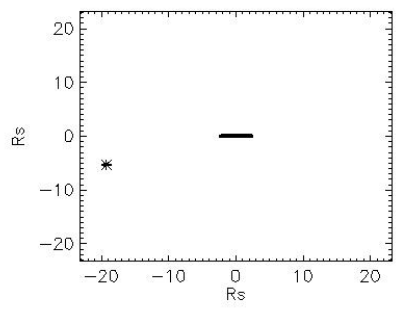
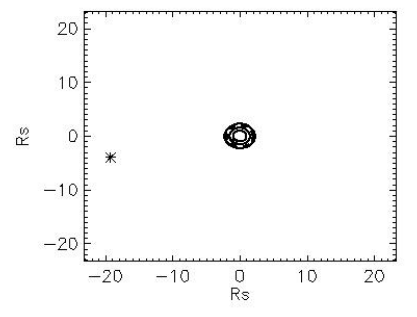
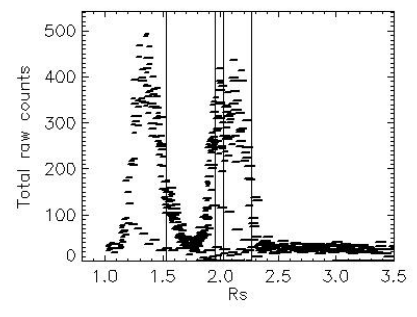
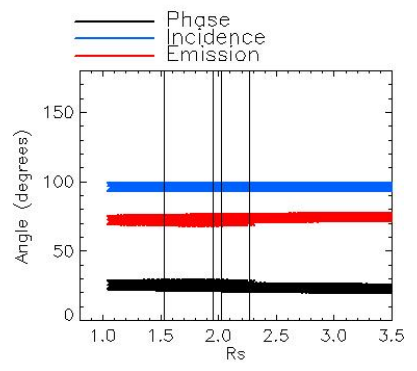
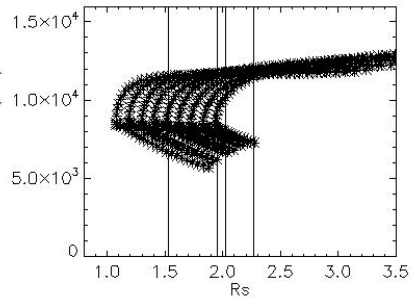
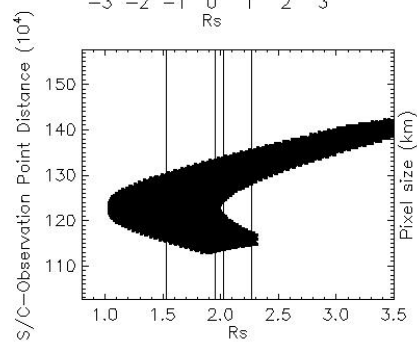


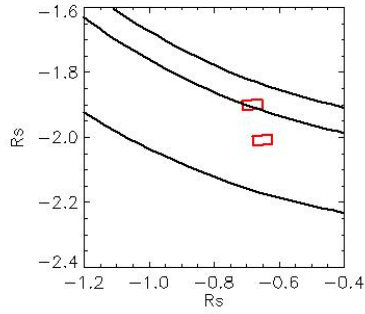
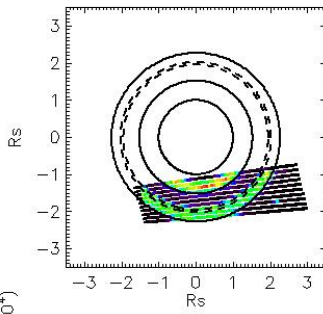
Observation Name:
UMS_071RLSUBMU17LP001_CIRS

Observation Date:
2008_158_05_15_51

Observation Duration:
2700 S

Integration time = 300 S



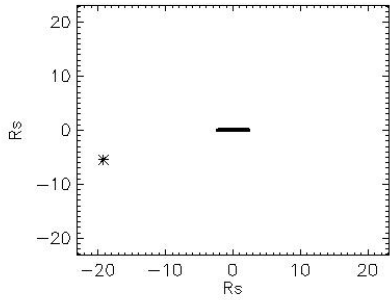
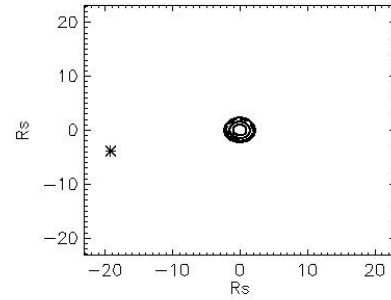
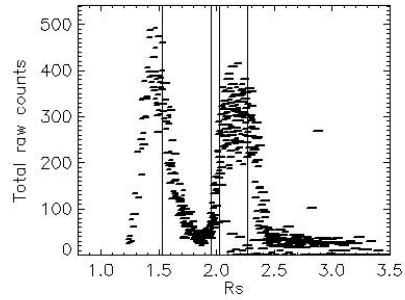
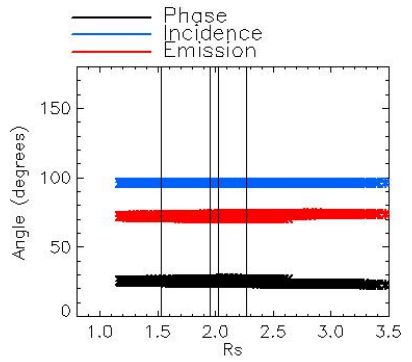
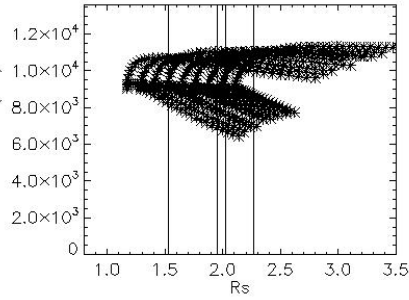
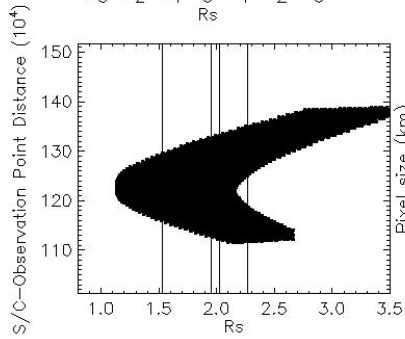


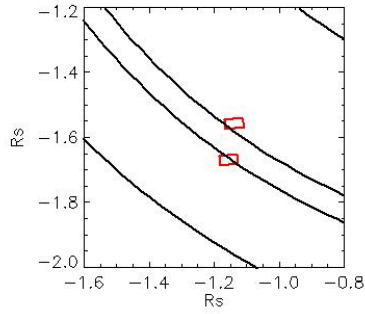
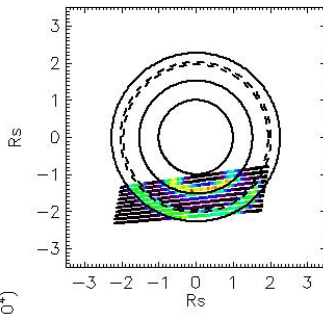
Observation Name:
UMS_071RLSUBMU17LP001_CIRS

Observation Date:
2008_158_06_08_51

Observation Duration:
2700 S

Integration time = 300 S



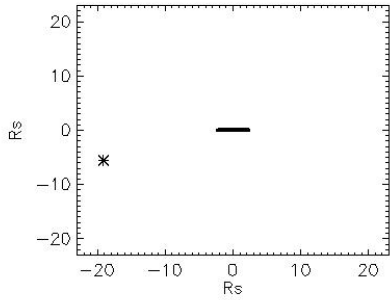
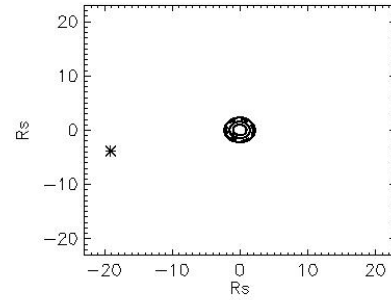
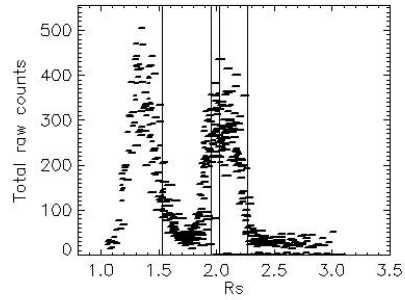
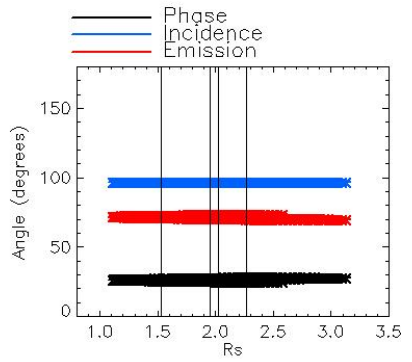
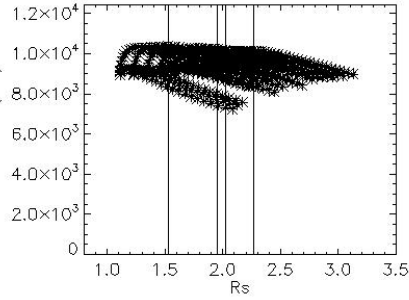
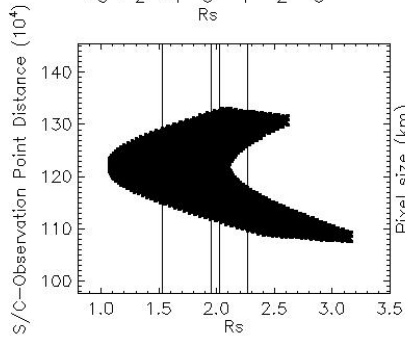


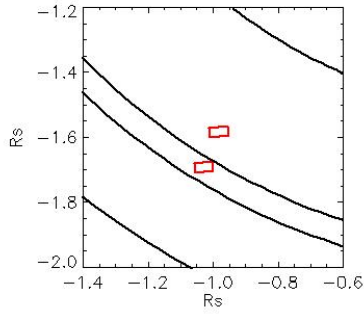
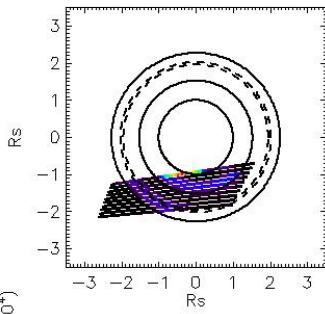
Observation Name:
UMS_071RLSUBMU17LP001_CIRS

Observation Date:
2008_158_07_01_51

Observation Duration:
2700 S

Integration time = 300 S



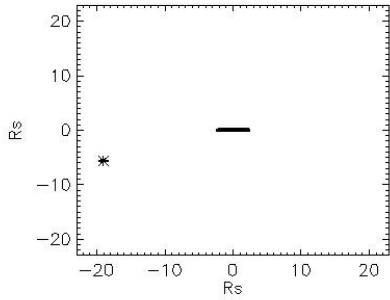
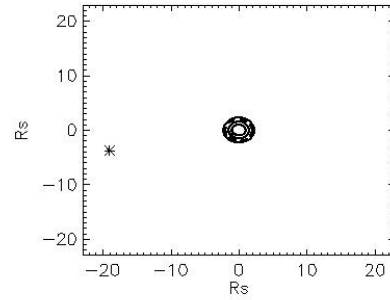
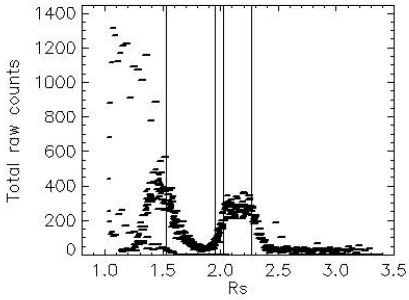
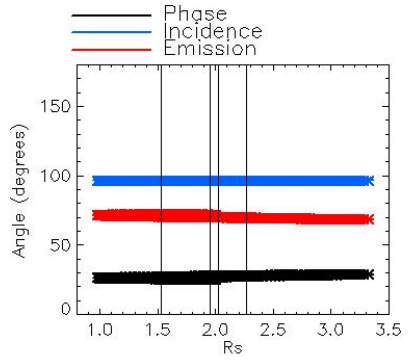
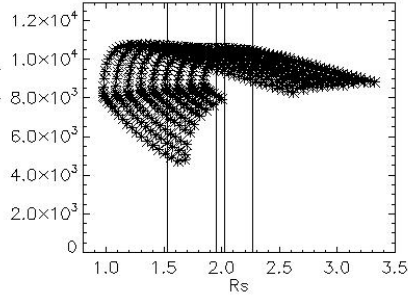
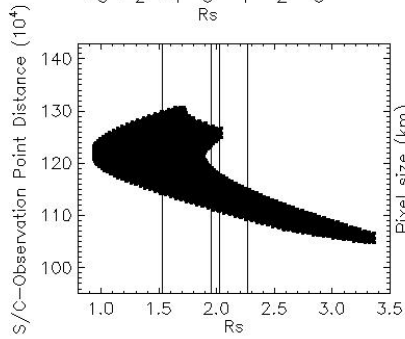


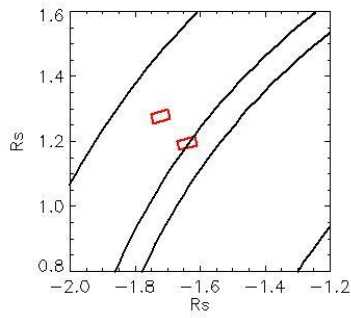
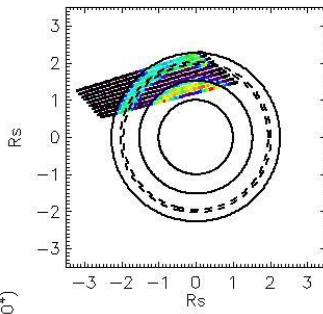
Observation Name:
UVS_071RLSUBMU17LP001_CIRS

Observation Date:
2008_158_07_54_51

Observation Duration:
2700 S

Integration time = 300 S



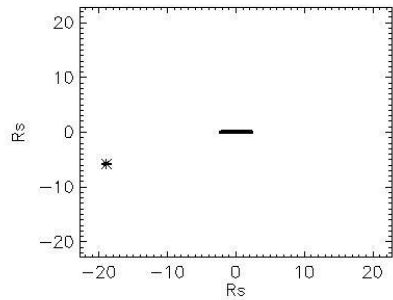
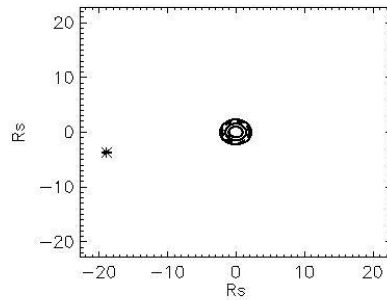
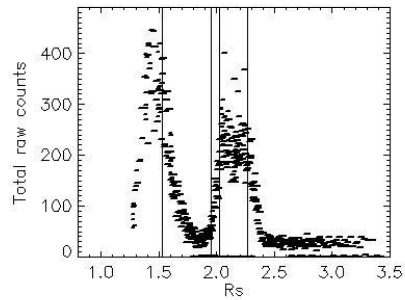
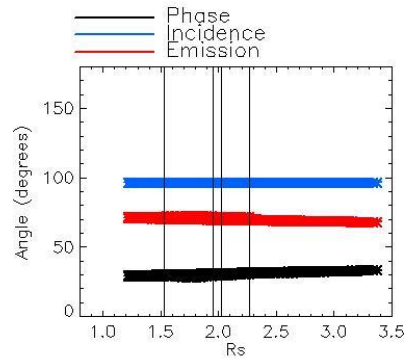
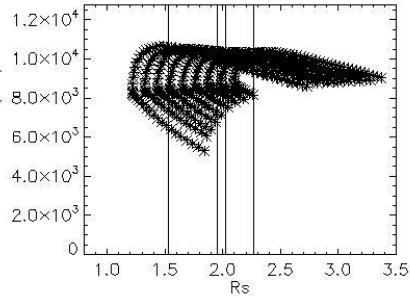
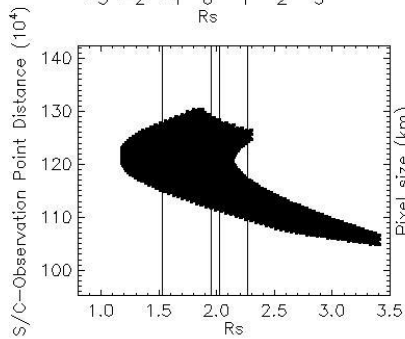


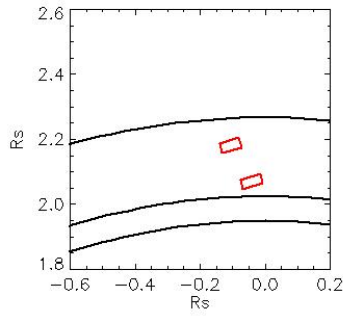
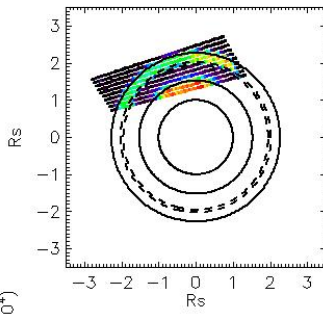
Observation Name:
UMS_071RLSUBMU17LP001_CIRS

Observation Date:
2008_158_08_47_51

Observation Duration:
2700 S

Integration time = 300 S



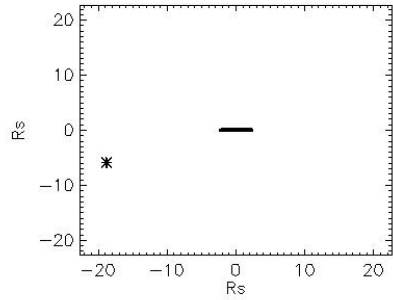
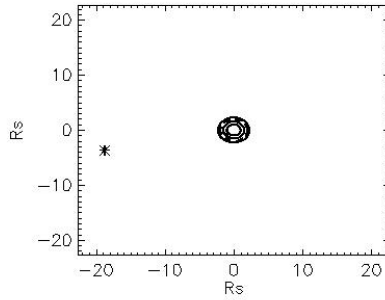
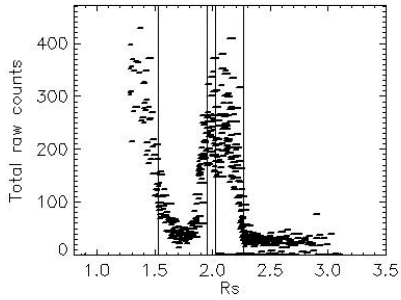
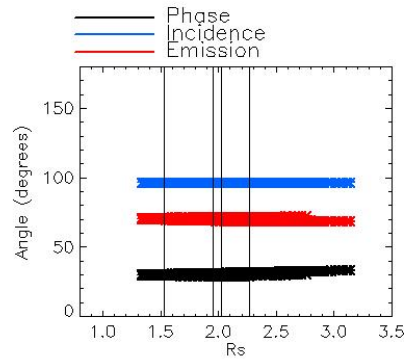
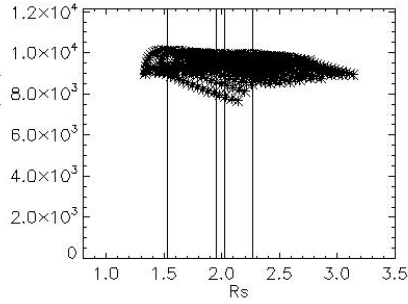
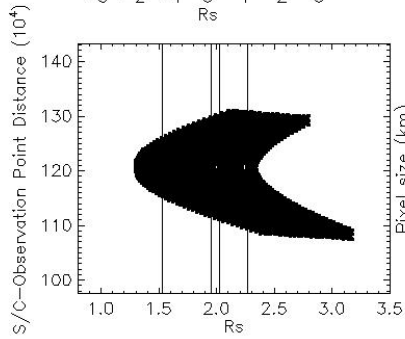


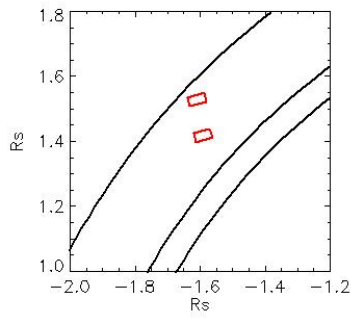
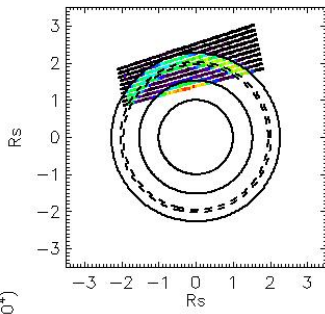
Observation Name:
UVS_071RLSUBMU17LP001_CIRS

Observation Date:
2008_158_09_40_51

Observation Duration:
2700 S

Integration time = 300 S



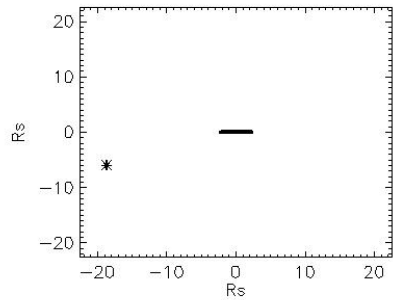
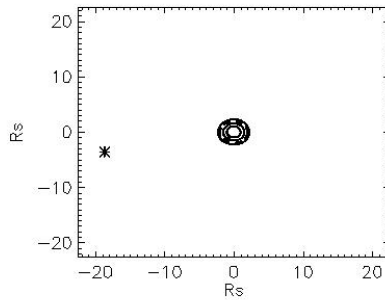
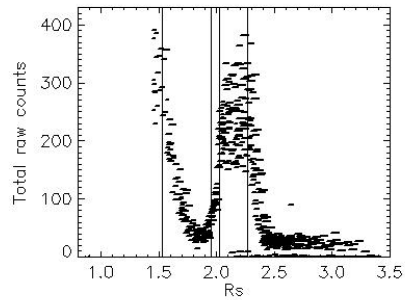
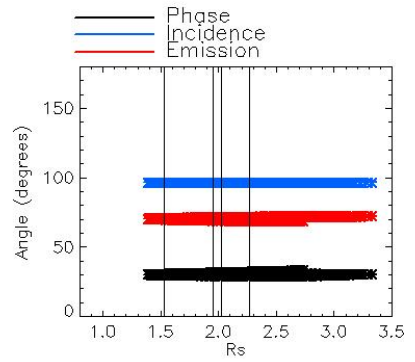
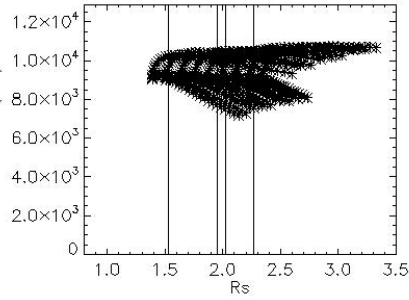
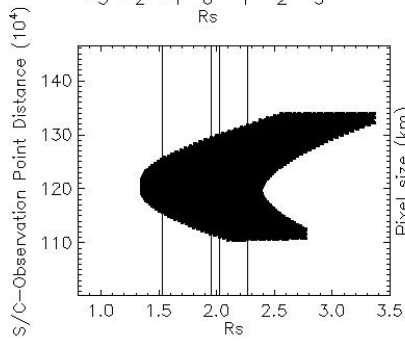


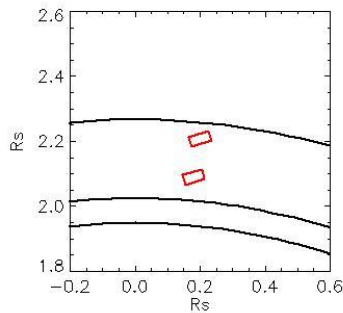
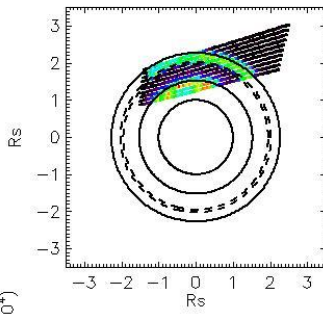
Observation Name:
UMS_071RLSUBMU17LP001_CIRS

Observation Date:
2008_158_10_33_52

Observation Duration:
2700 S

Integration time = 300 S



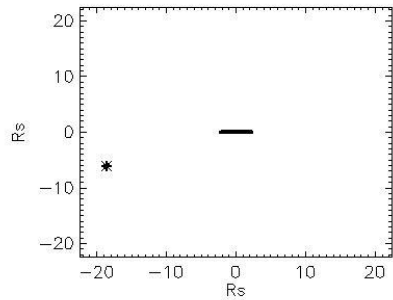
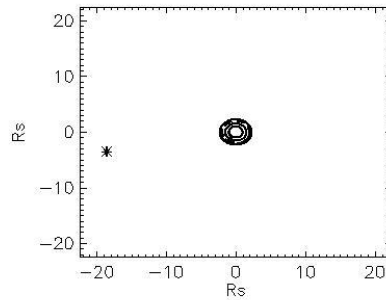
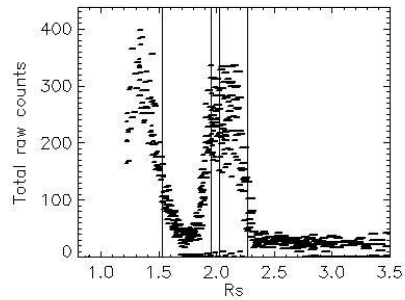
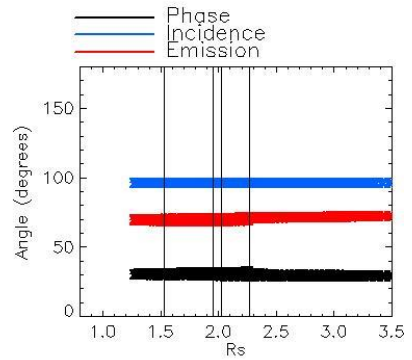
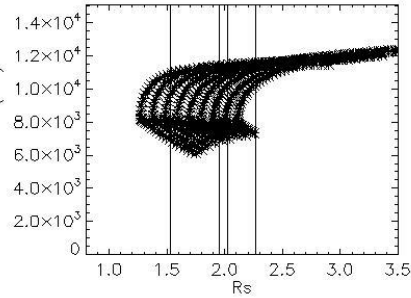
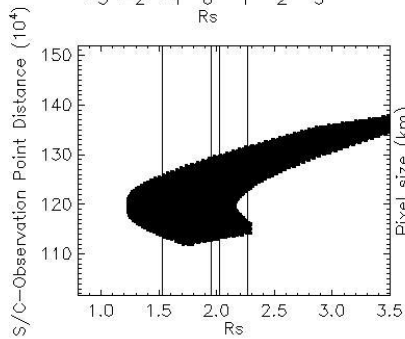


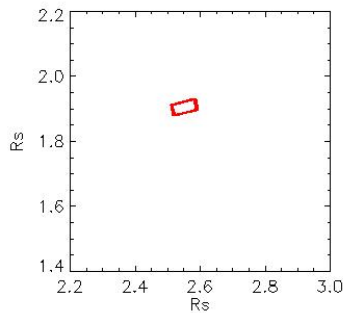
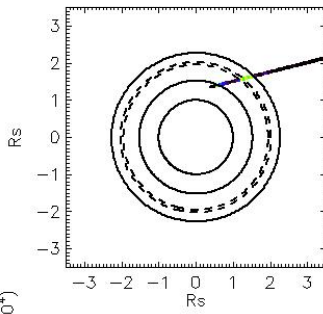
Observation Name:
UVS_071RLSUBMU17LP001_CIRS

Observation Date:
2008_158_11_26_52

Observation Duration:
2700 S

Integration time = 300 S



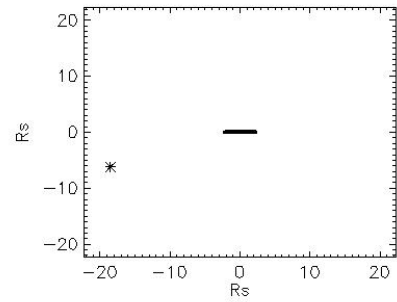
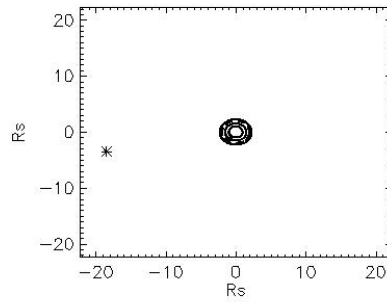
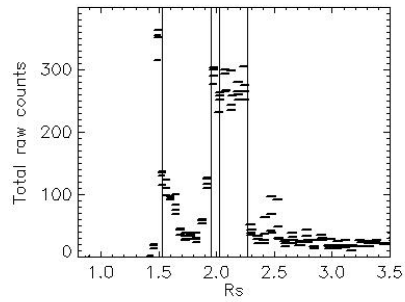
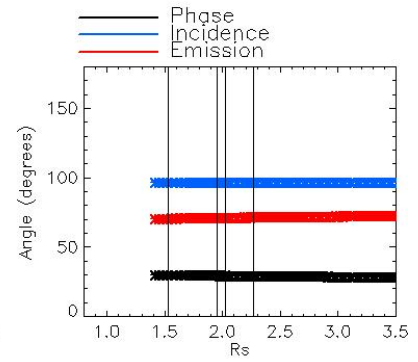
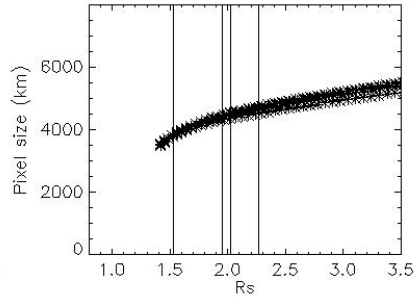
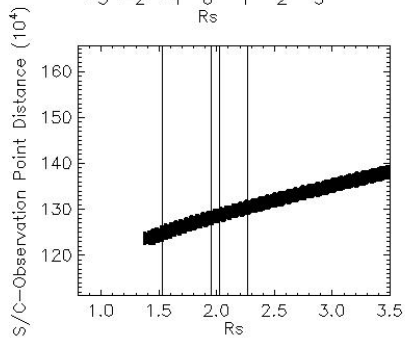


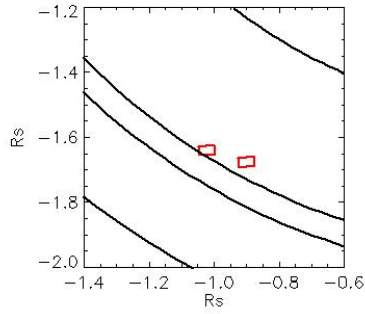
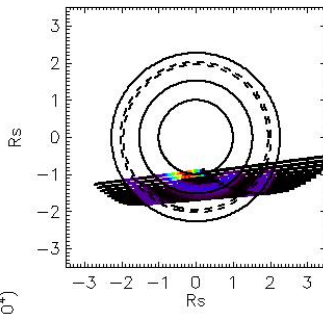
Observation Name:
UVS_071RLSUBMU17LP001_CIRS

Observation Date:
2008_158_12_18_52

Observation Duration:
1200 S

Integration time = 300 S



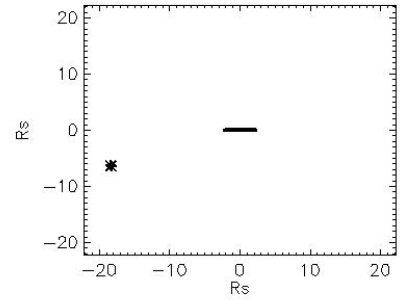
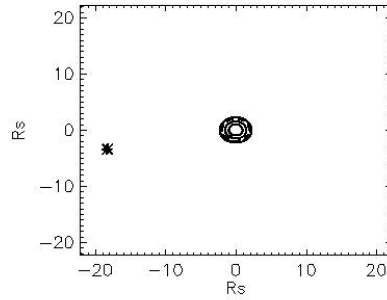
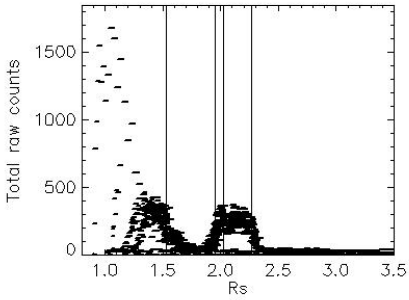
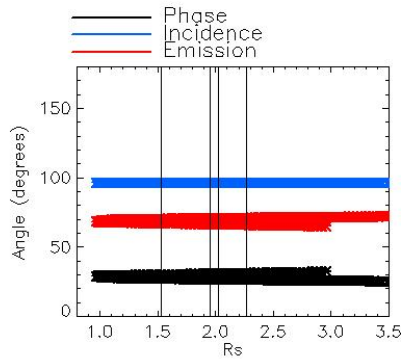
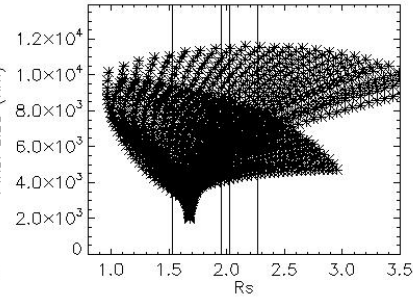
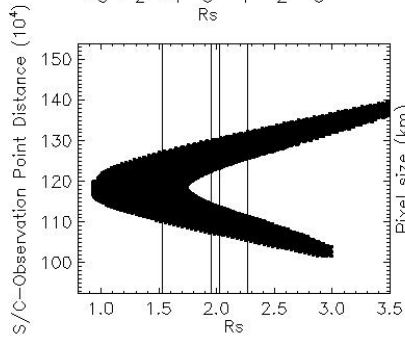


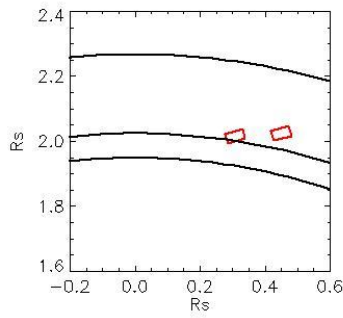
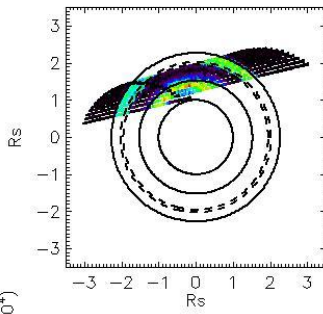
Observation Name:
UMS_071RC_VERTULLP001_CIRS

Observation Date:
2008_158_12_49_52

Observation Duration:
7500 S

Integration time = 300 S



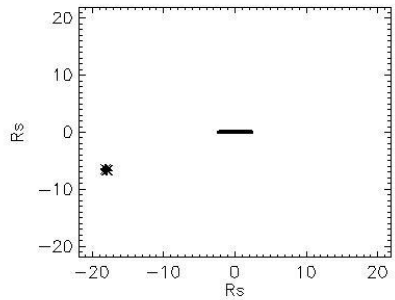
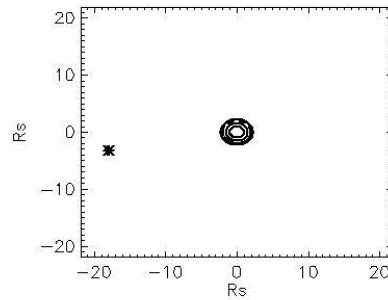
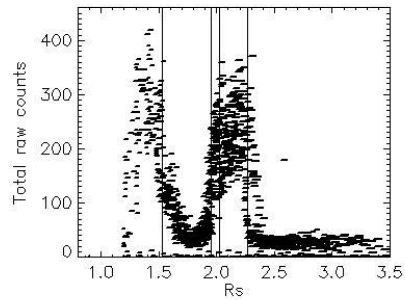
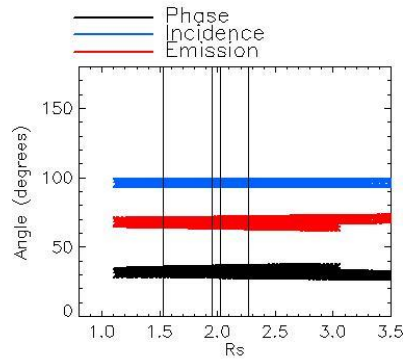
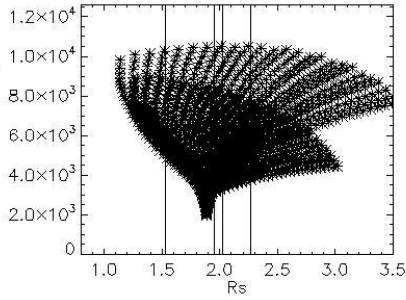
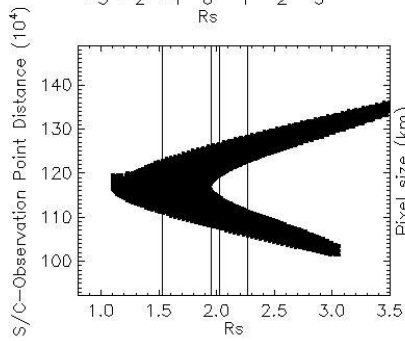


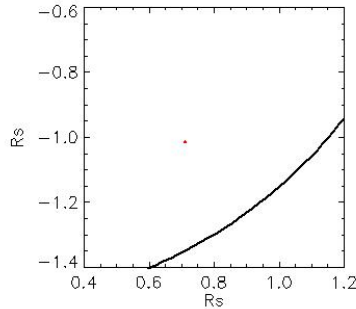
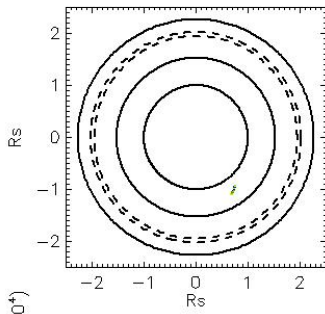
Observation Name:
UMS_071RC_VERTULLP001_CIRS

Observation Date:
2008_158_15_00_51

Observation Duration:
7500 S

Integration time = 300 S



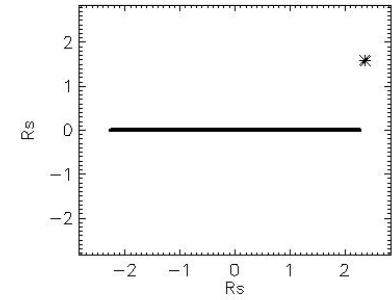
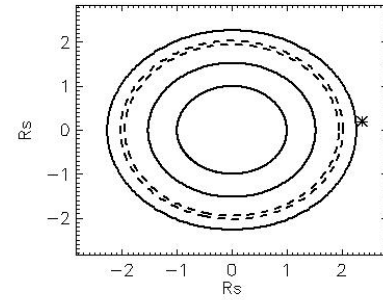
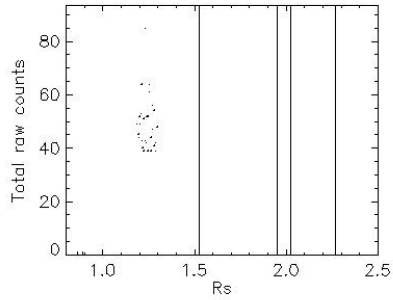
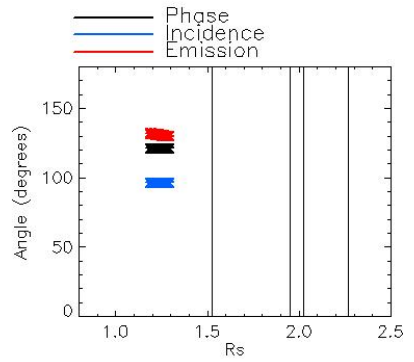
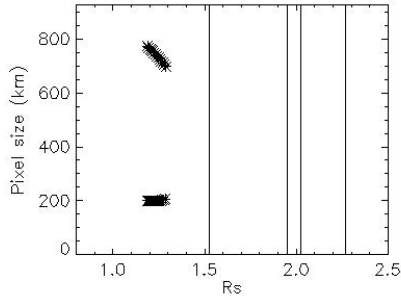
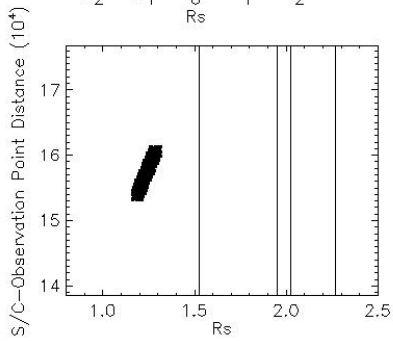


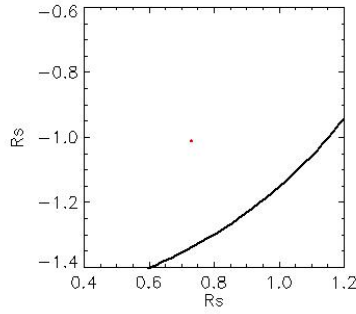
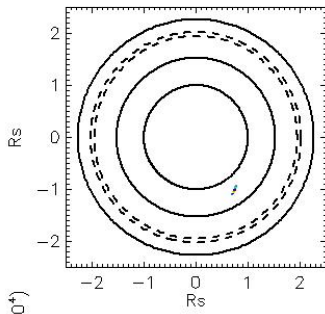
Observation Name:
UMS_071RLRDRSSCHP001_ISS_1

Observation Date:
2008_161_03_16_32

Observation Duration:
80 S

Integration time = 40 S



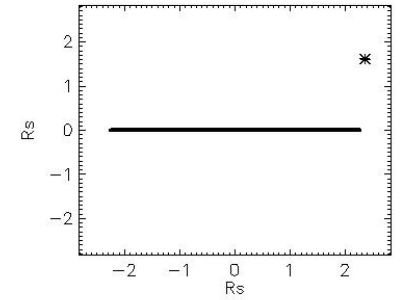
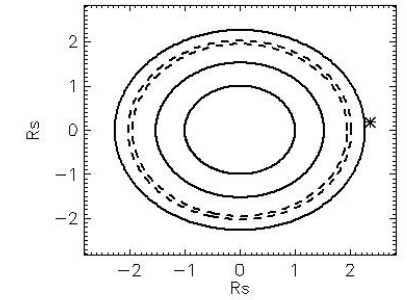
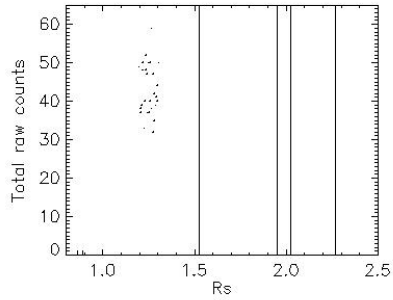
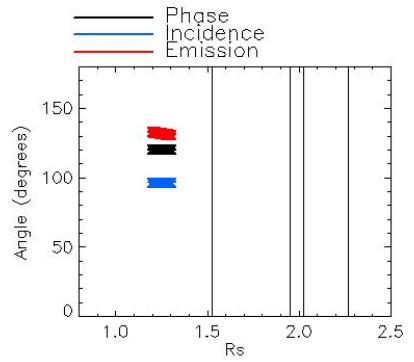
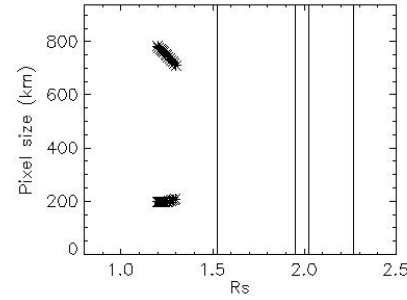
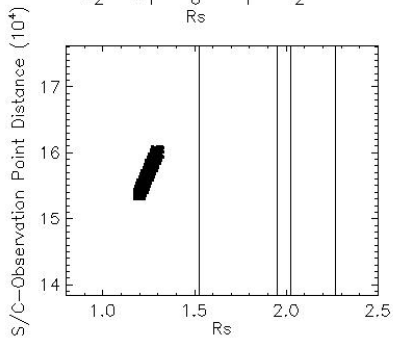


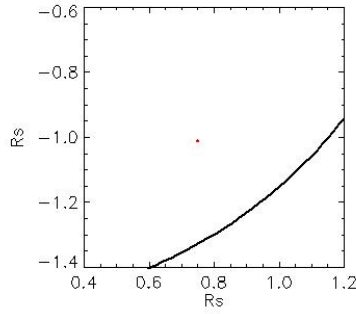
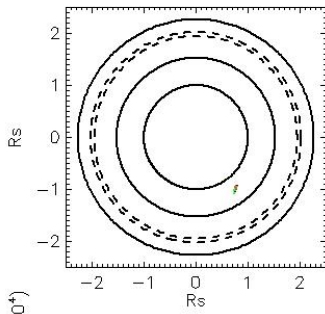
Observation Name:
UMS_071RLRDRSSCHP001_ISS_1

Observation Date:
2008_161_03_18_14

Observation Duration:
80 S

Integration time = 40 S



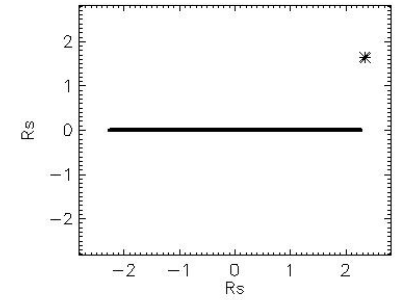
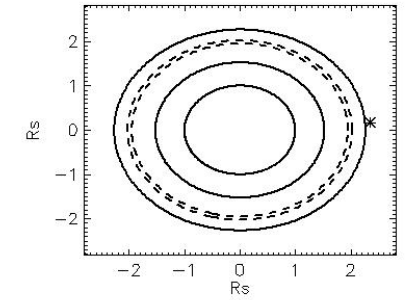
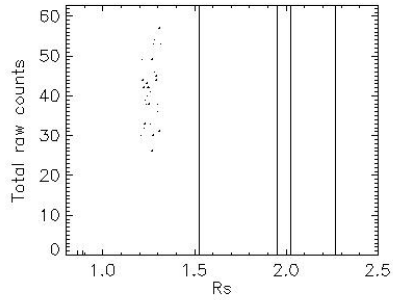
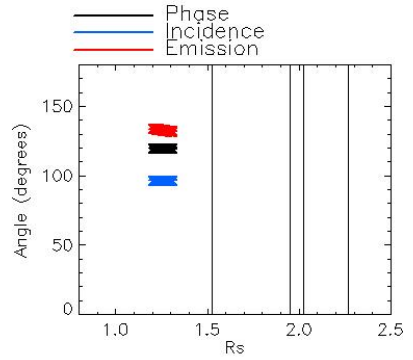
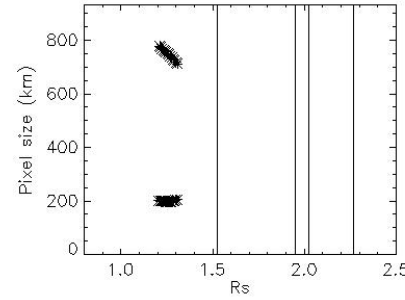
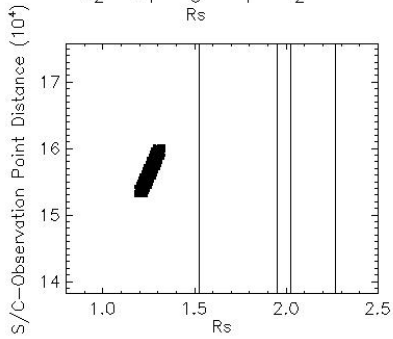


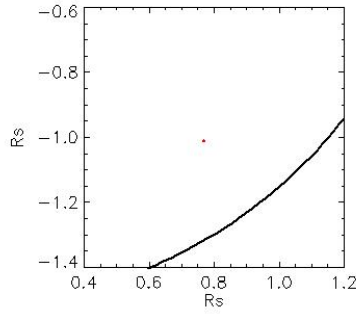
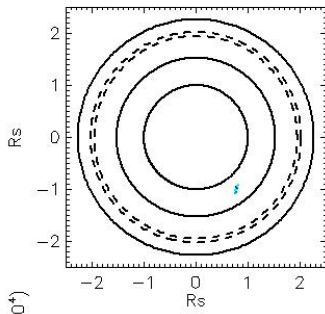
Observation Name:
UMS_071RLRDRSSCHP001_ISS_1

Observation Date:
2008_161_03_19_56

Observation Duration:
80 S

Integration time = 40 S



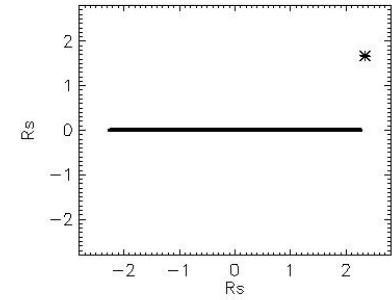
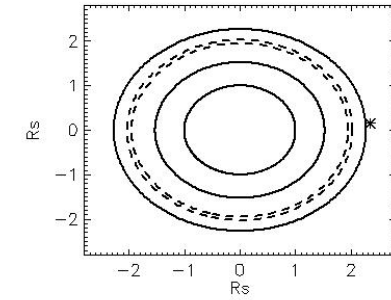
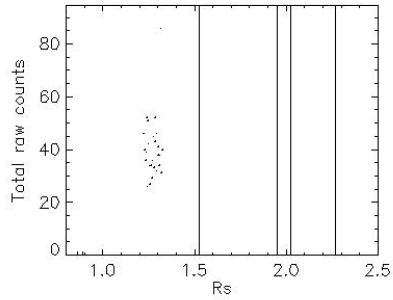
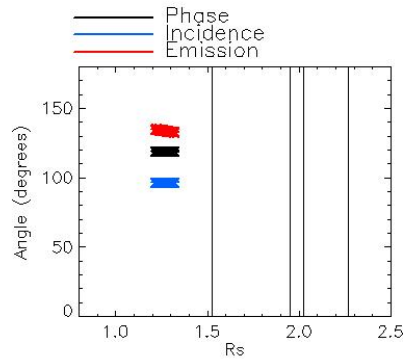
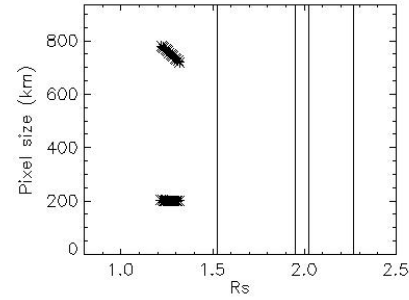
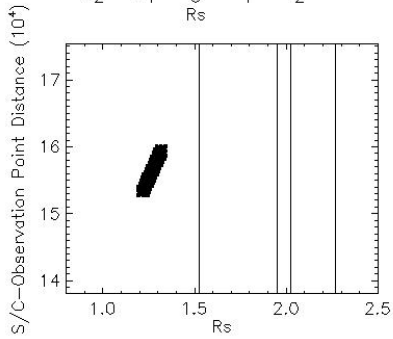


Observation Name:
UMS_071RLRDRSSCHP001_ISS_1

Observation Date:
2008_161_03_21_38

Observation Duration:
80 S

Integration time = 40 S

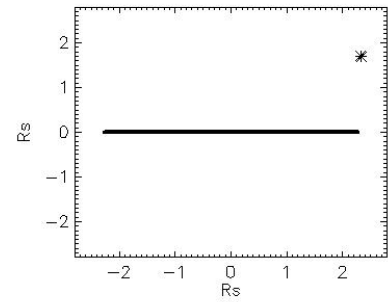
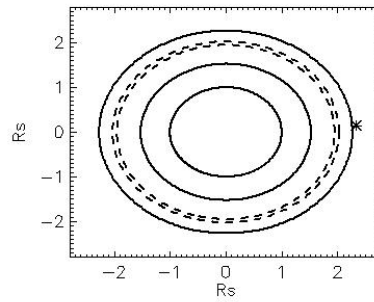
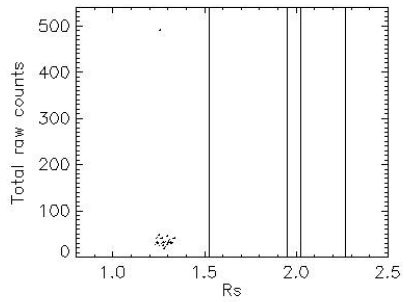
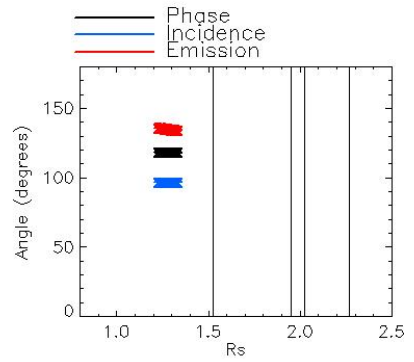
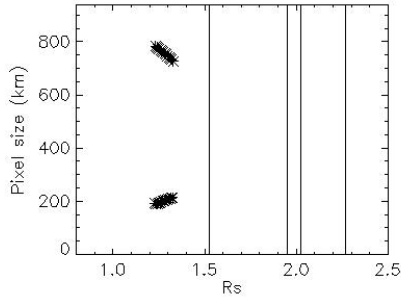
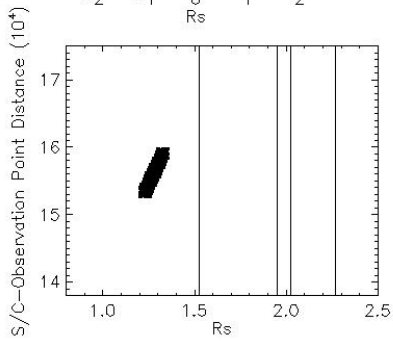
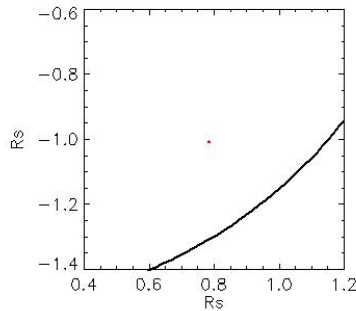
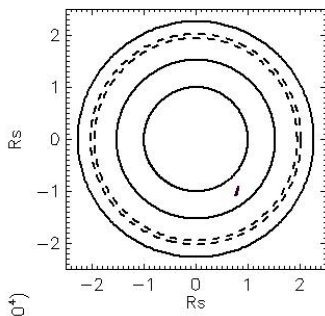


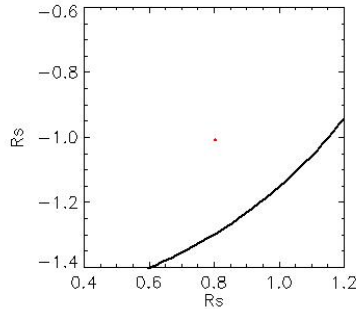
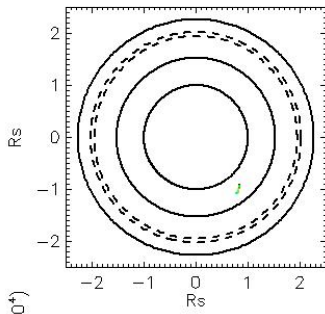
Observation Name:
UMS_071RLRDRSSCHP001_ISS_1

Observation Date:
2008_161_03_23_20

Observation Duration:
80 S

Integration time = 40 S



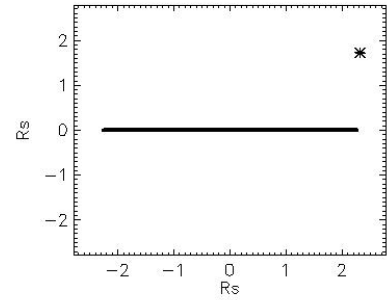
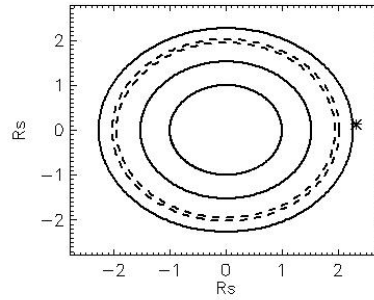
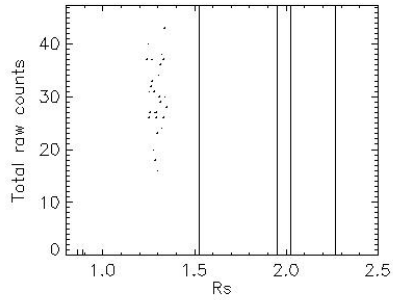
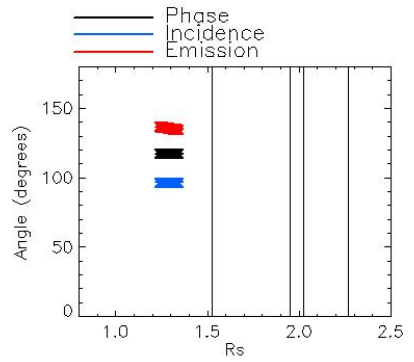
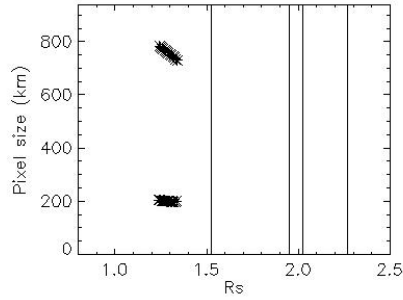
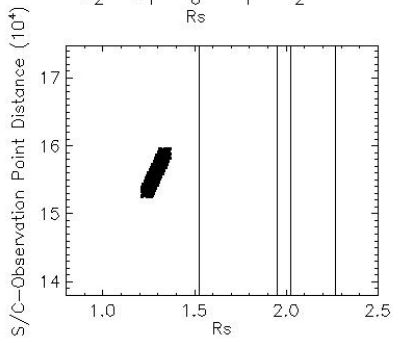


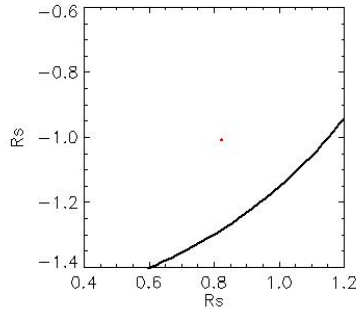
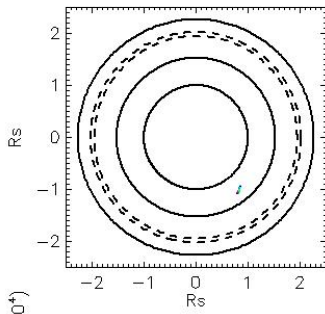
Observation Name:
UMS_071RLRDRSSCHP001_ISS_1

Observation Date:
2008_161_03_25_01

Observation Duration:
80 S

Integration time = 40 S



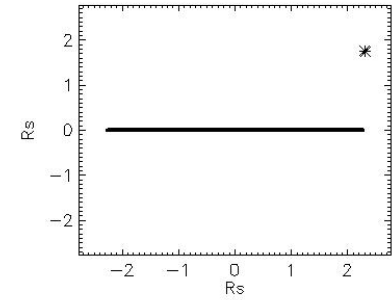
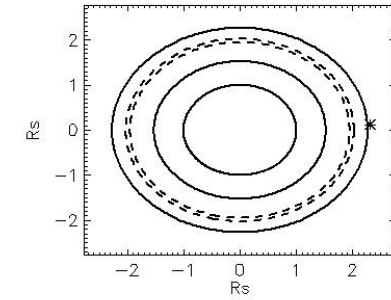
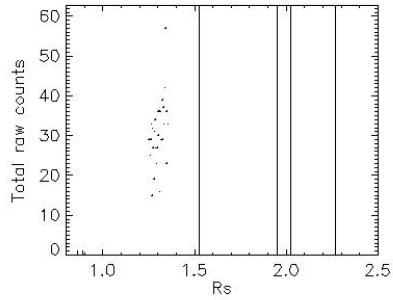
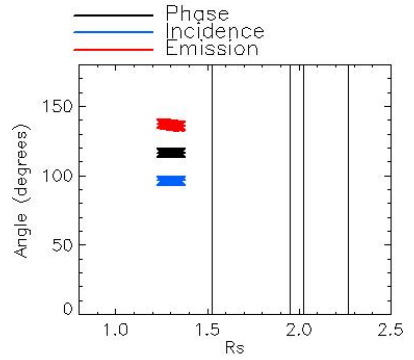
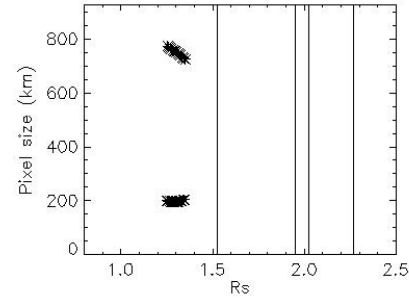
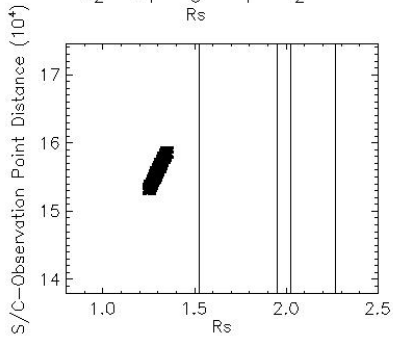


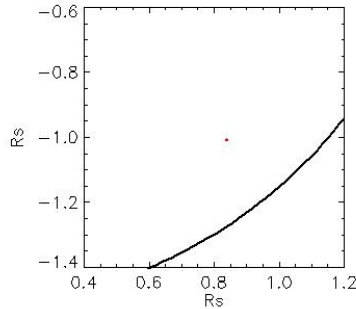
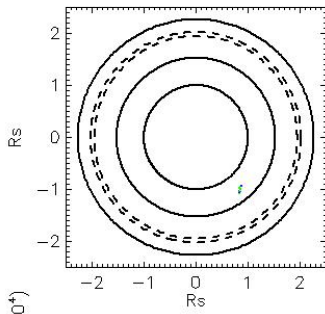
Observation Name:
UMS_071RLRDRSSCHP001_ISS_1

Observation Date:
2008_161_03_26_42

Observation Duration:
80 S

Integration time = 40 S



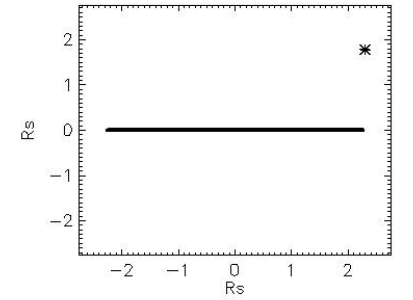
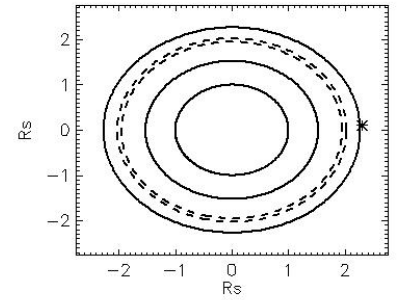
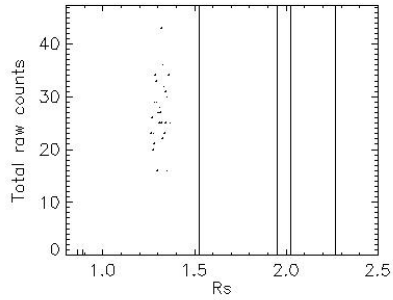
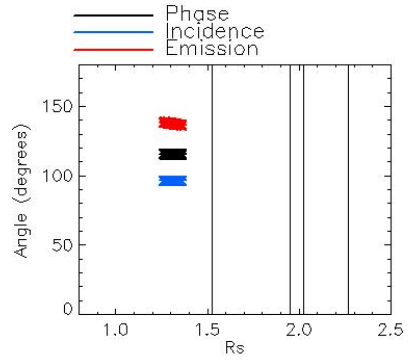
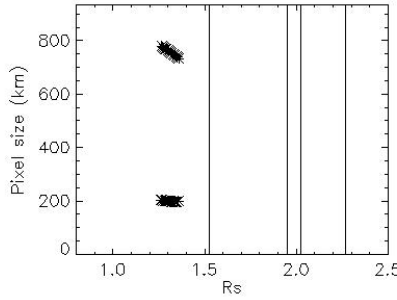
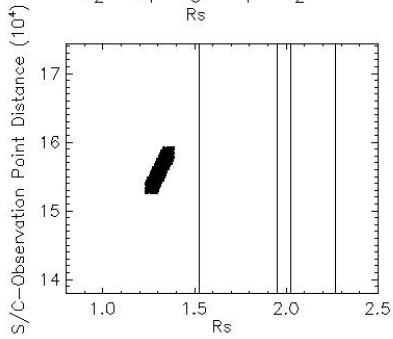


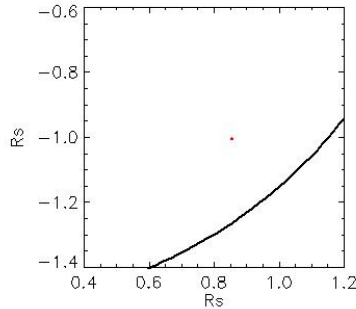
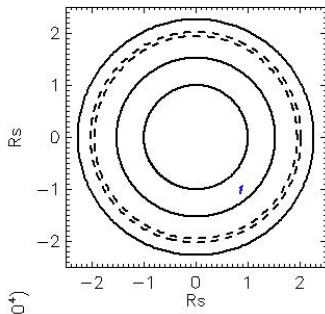
Observation Name:
UMS_071RLRDHRSSCHP001_ISS_1

Observation Date:
2008_161_03_28_23

Observation Duration:
80 S

Integration time = 40 S



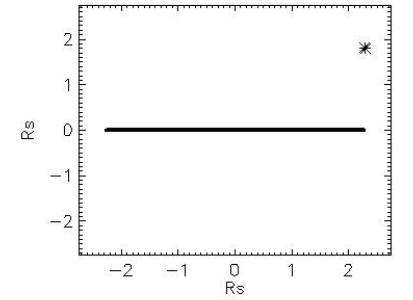
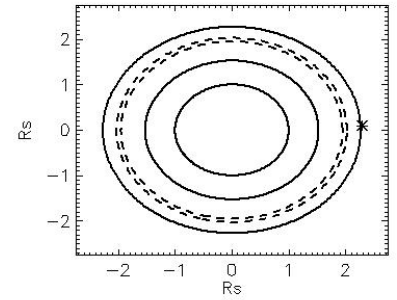
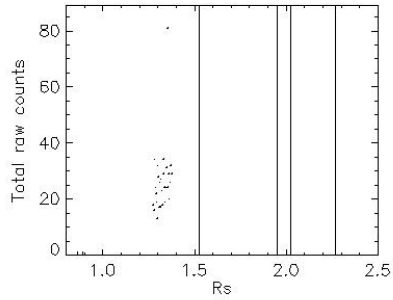
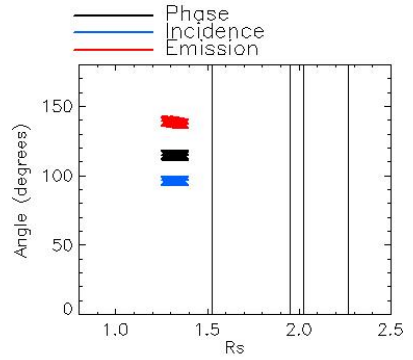
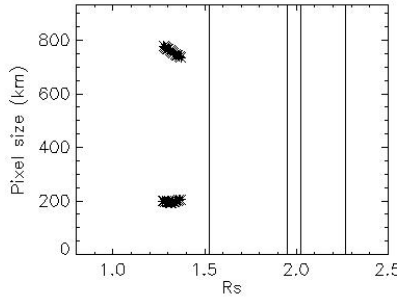
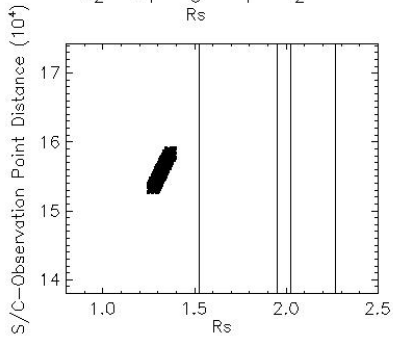


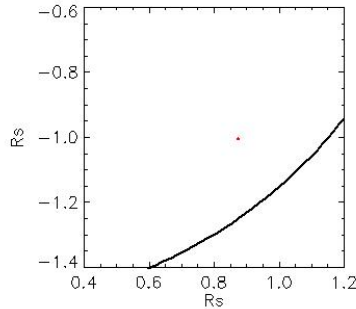
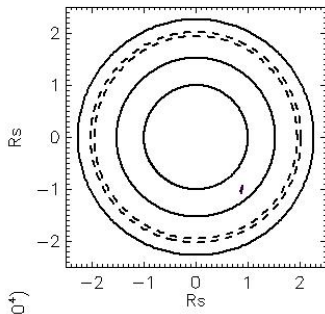
Observation Name:
UMS_071RLRDRSSCHP001_ISS_1

Observation Date:
2008_161_03_30_04

Observation Duration:
80 S

Integration time = 40 S



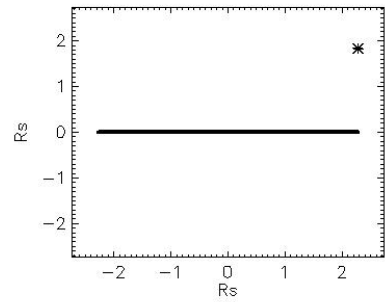
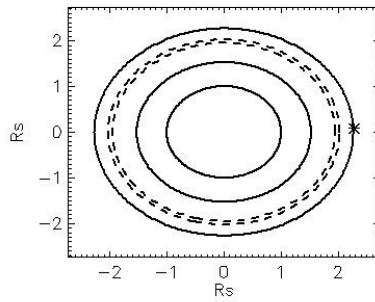
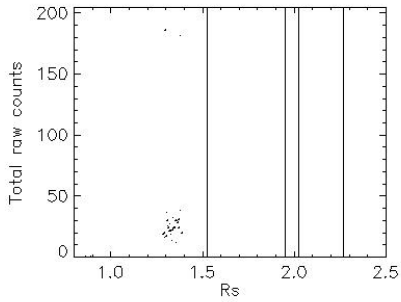
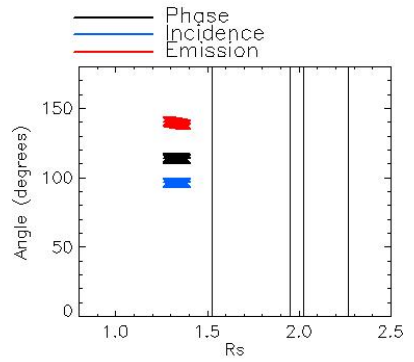
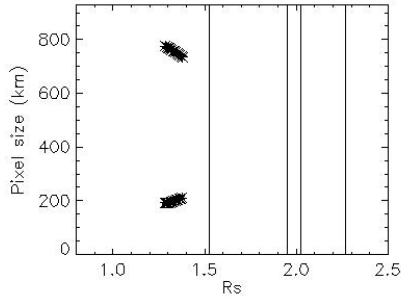
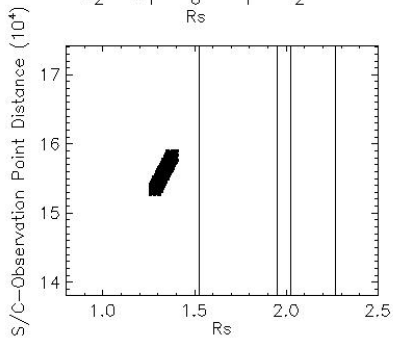


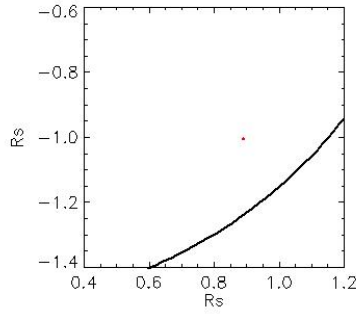
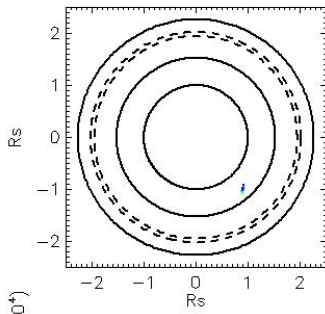
Observation Name:
UMS_071RLDRHRSCHP001_ISS_1

Observation Date:
2008_161_03_31_45

Observation Duration:
80 S

Integration time = 40 S



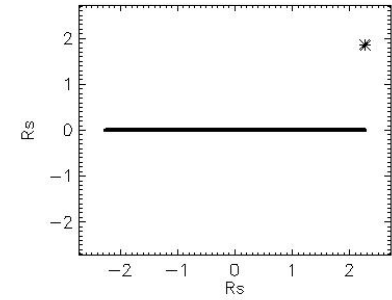
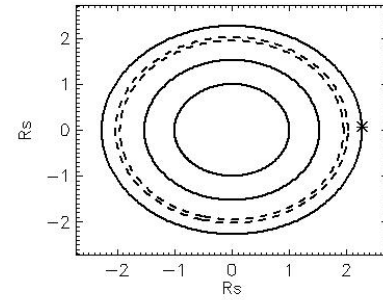
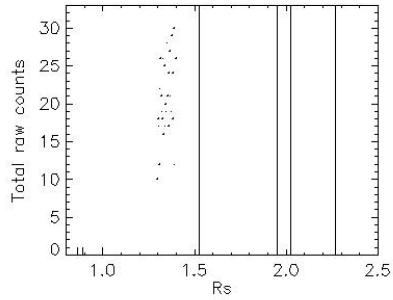
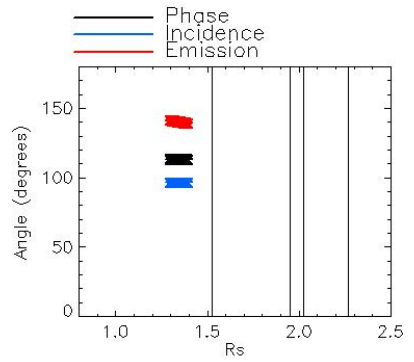
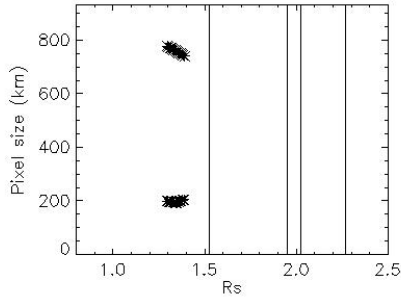
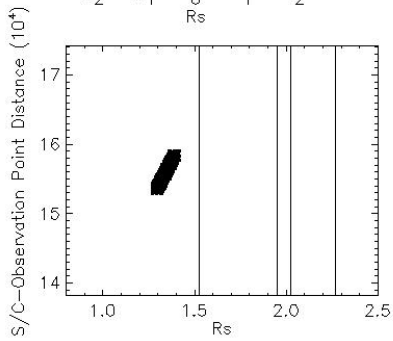


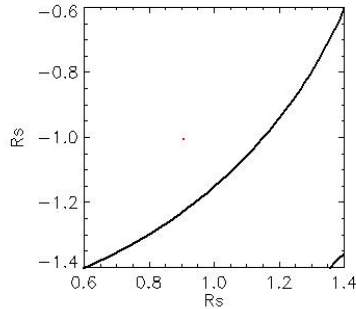
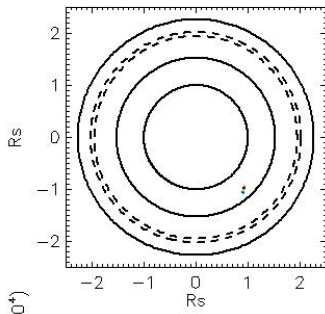
Observation Name:
UMS_071RLRDRSSCHP001_ISS_1

Observation Date:
2008_161_03_33_26

Observation Duration:
80 S

Integration time = 40 S



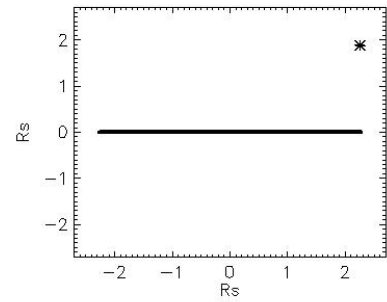
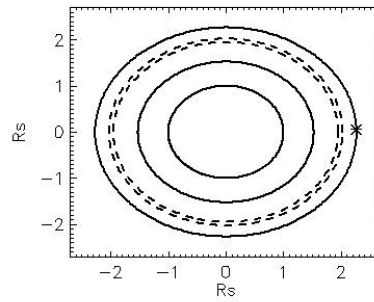
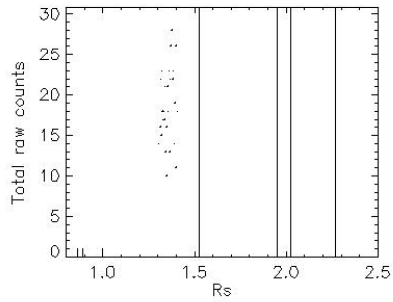
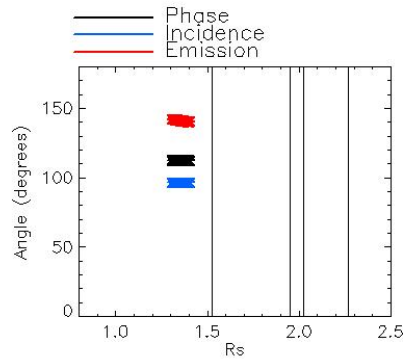
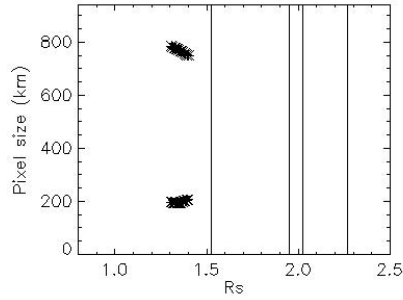
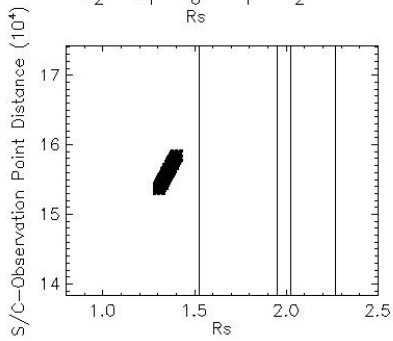


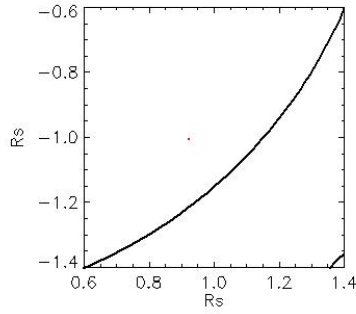
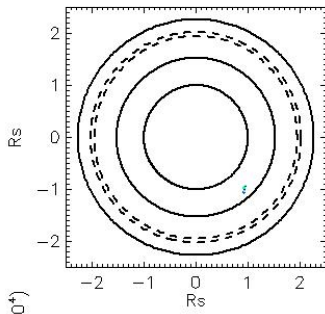
Observation Name:
UMS_071RLRDRSSCHP001_ISS_1

Observation Date:
2008_161_03_35_07

Observation Duration:
80 S

Integration time = 40 S



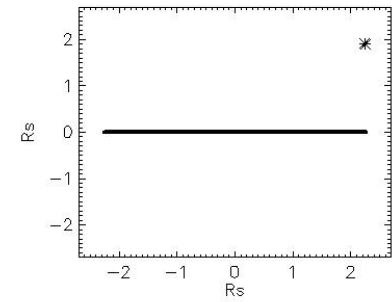
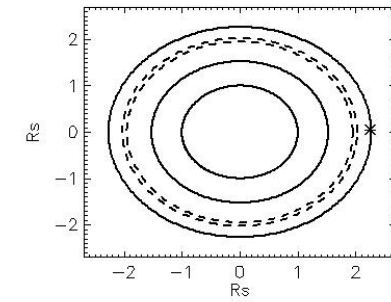
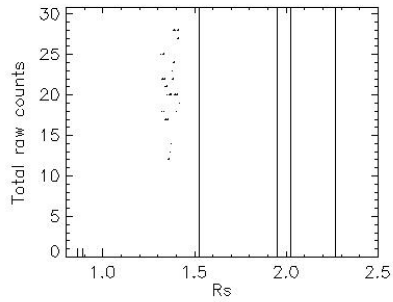
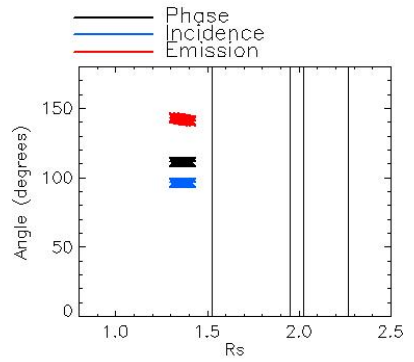
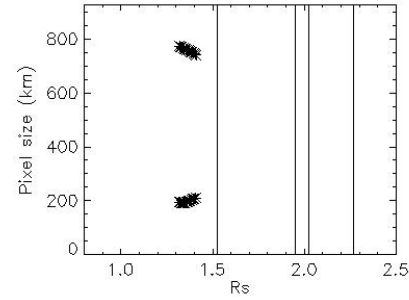
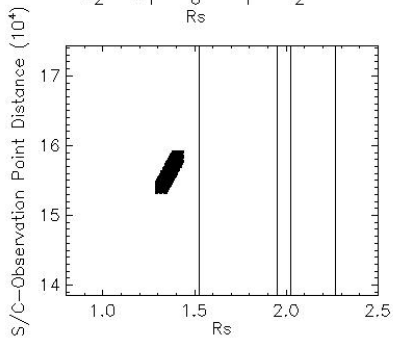


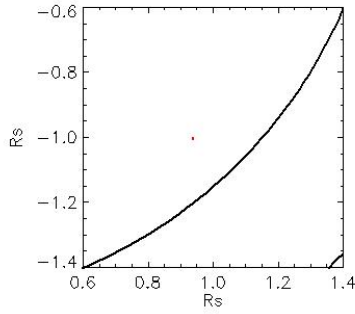
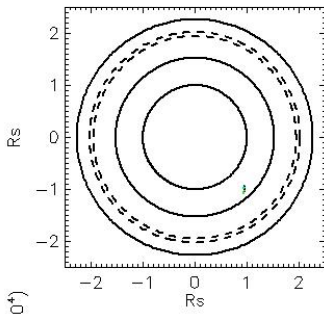
Observation Name:
UMS_071RLRDRSSCHP001_ISS_1

Observation Date:
2008_161_03_36_48

Observation Duration:
80 S

Integration time = 40 S



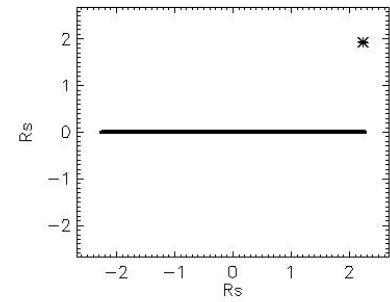
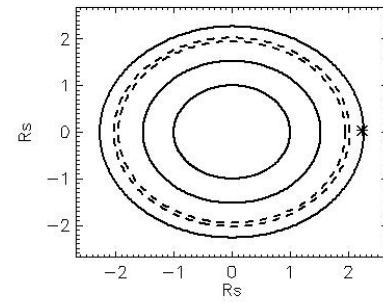
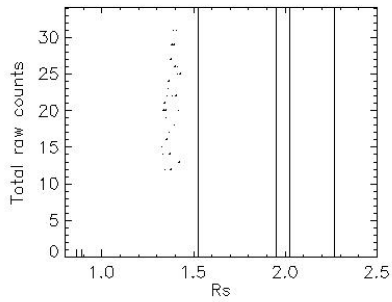
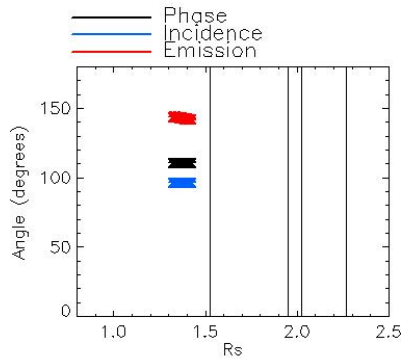
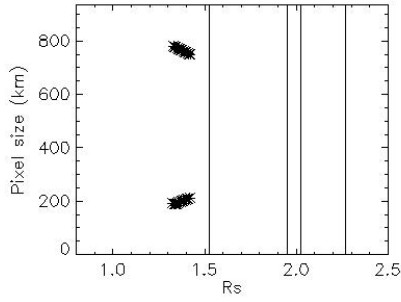
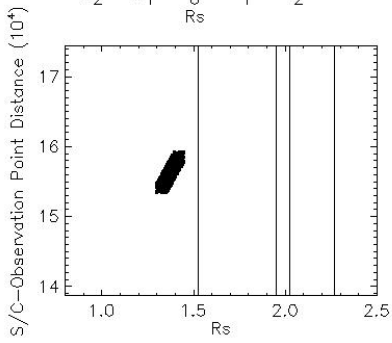


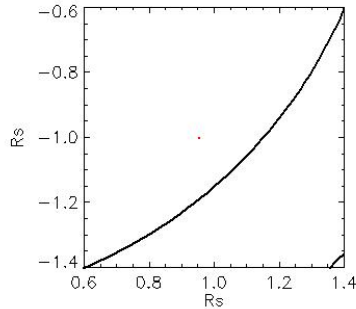
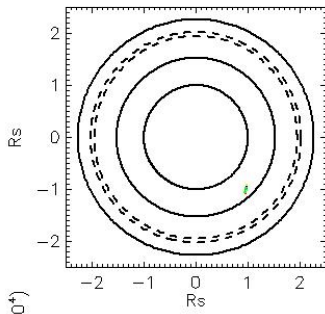
Observation Name:
UMS_071RLRDRSSCHP001_ISS_1

Observation Date:
2008_161_03_38_28

Observation Duration:
80 S

Integration time = 40 S



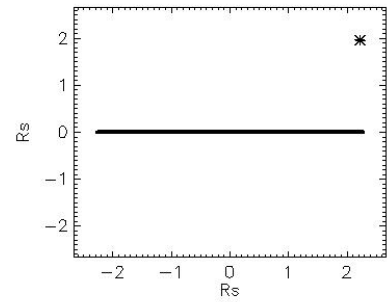
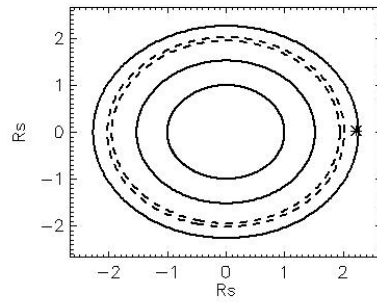
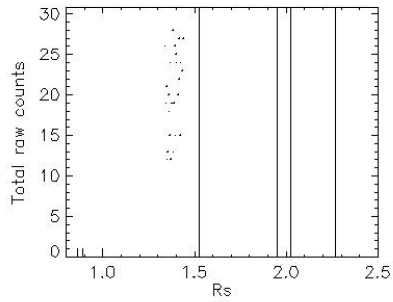
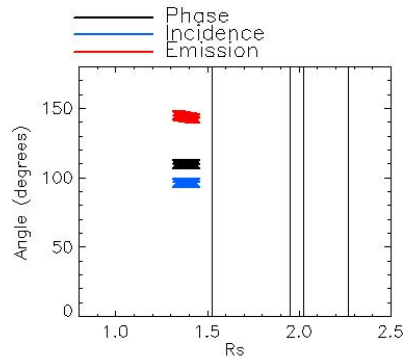
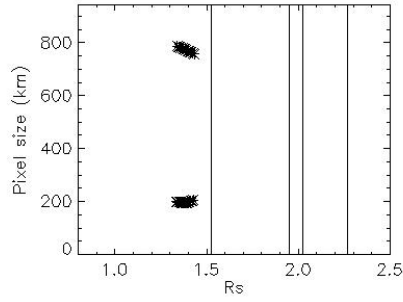
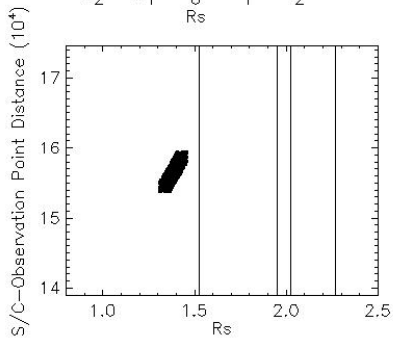


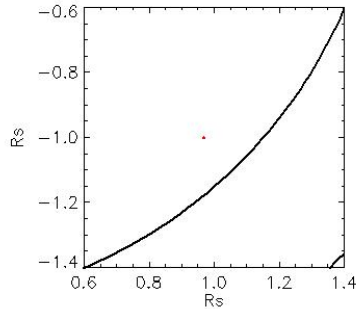
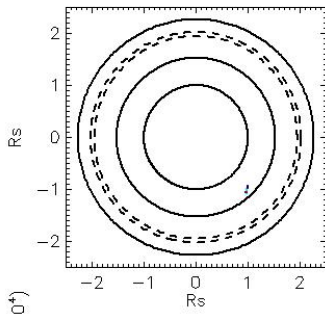
Observation Name:
UMS_071RLRDRSSCHP001_ISS_1

Observation Date:
2008_161_03_40_08

Observation Duration:
80 S

Integration time = 40 S



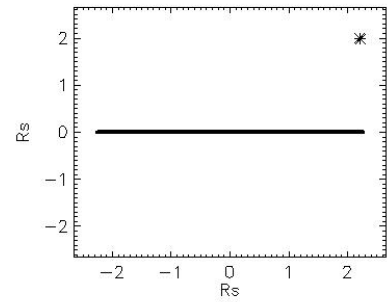
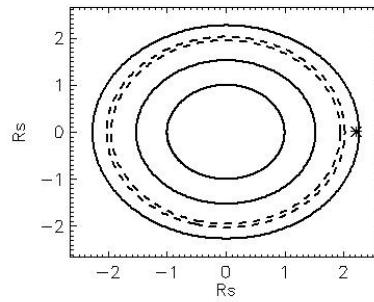
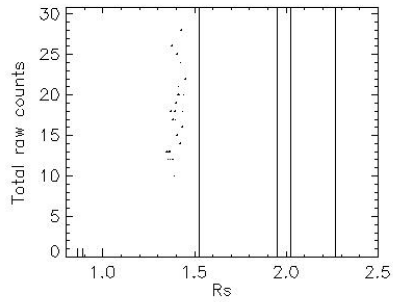
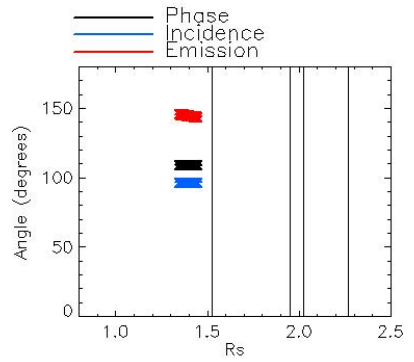
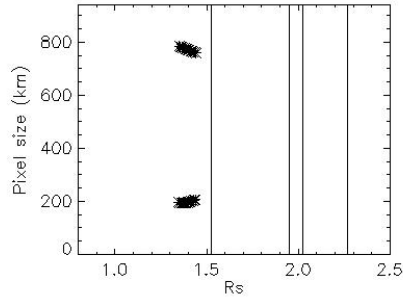
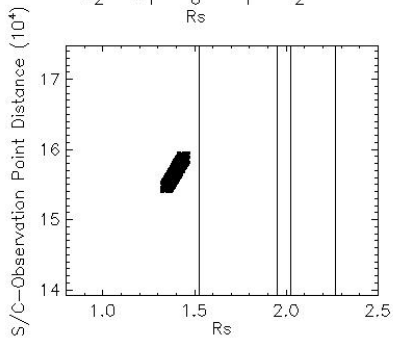


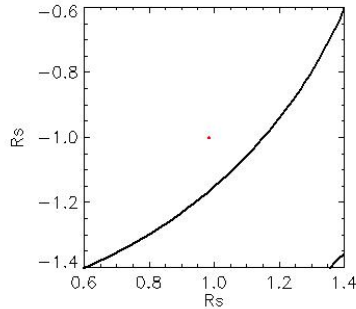
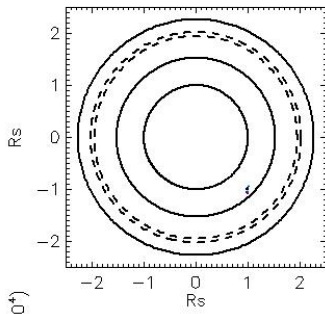
Observation Name:
UMS_071RLRDRSSCHP001_ISS_1

Observation Date:
2008_161_03_41_48

Observation Duration:
80 S

Integration time = 40 S



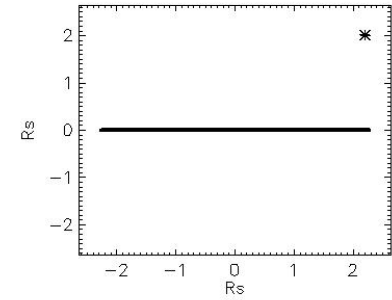
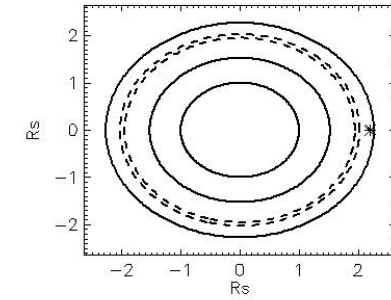
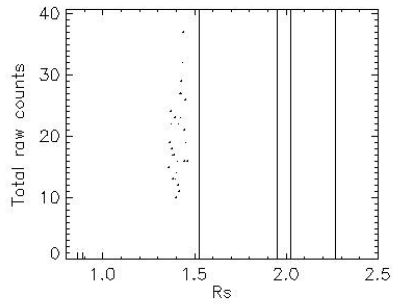
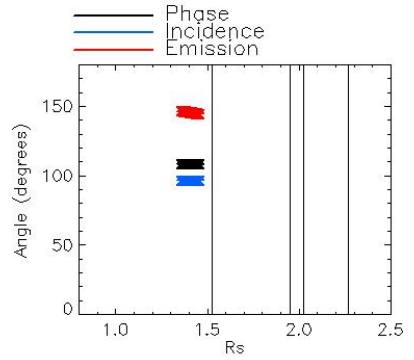
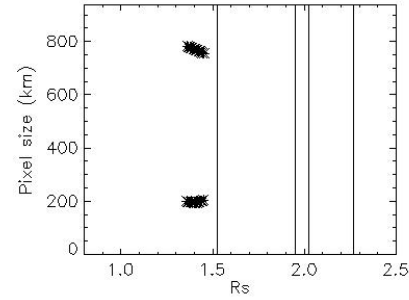
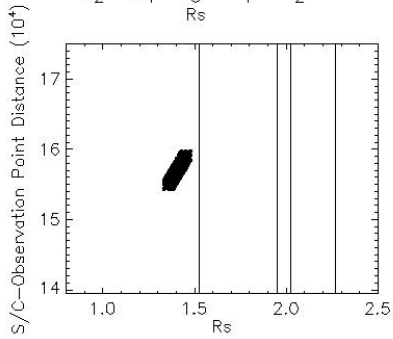


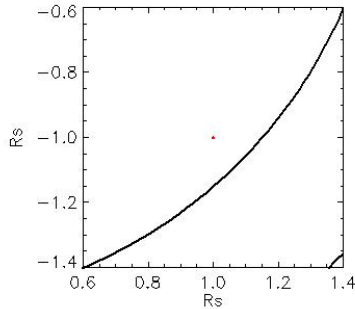
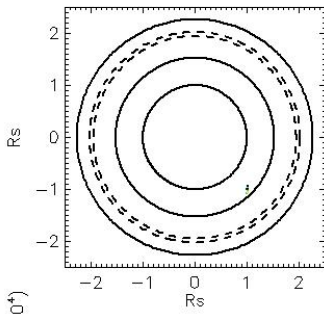
Observation Name:
UMS_071RLRDRSSCHP001_ISS_1

Observation Date:
2008_161_03_43_28

Observation Duration:
80 S

Integration time = 40 S



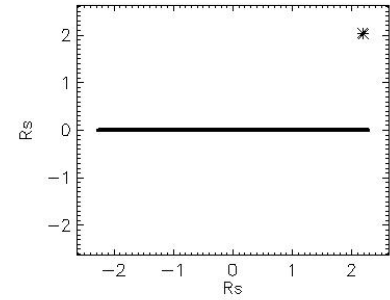
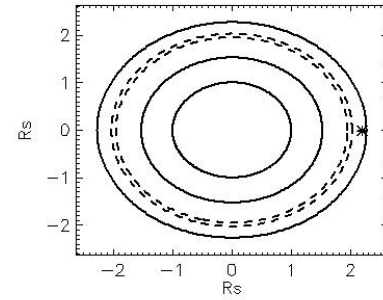
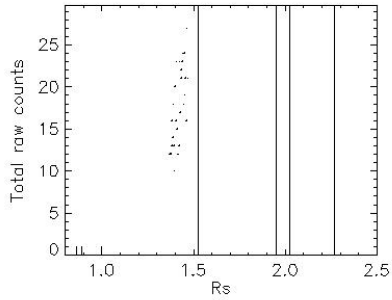
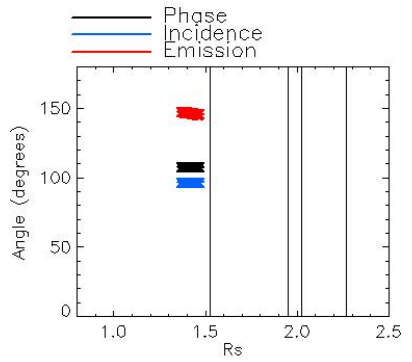
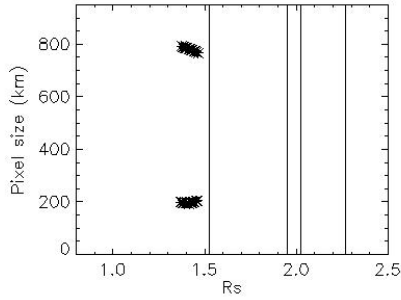
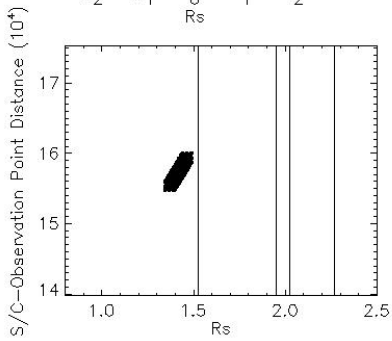


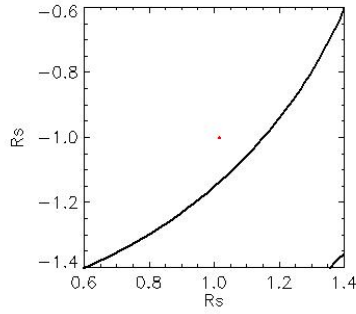
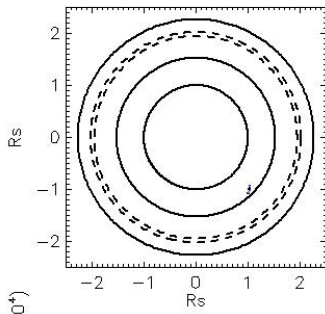
Observation Name:
UMS_071RLRDHRSSCHP001_ISS_1

Observation Date:
2008_161_03_45_08

Observation Duration:
80 S

Integration time = 40 S



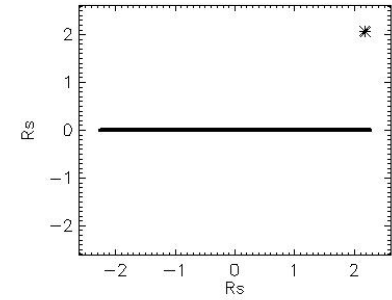
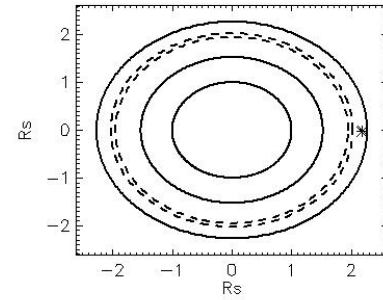
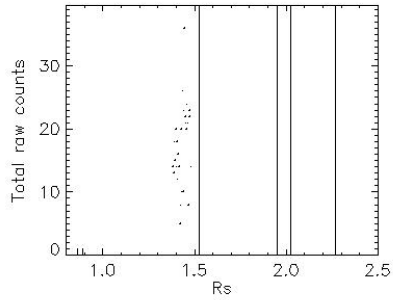
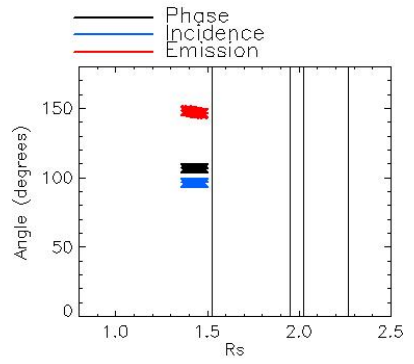
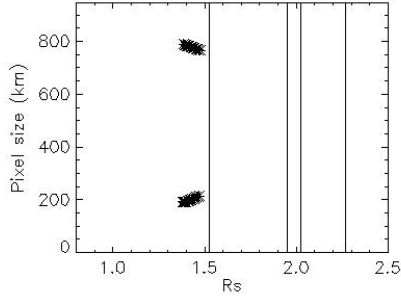
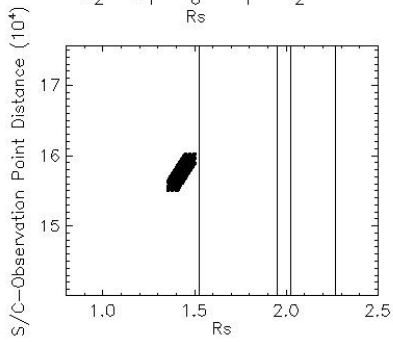


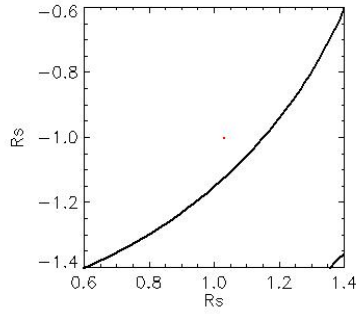
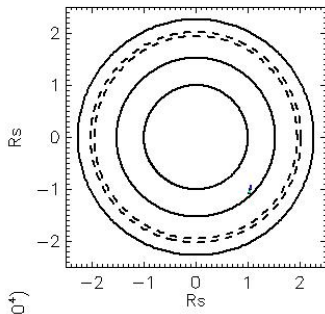
Observation Name:
UMS_071RLRDHRSSCHP001_ISS_1

Observation Date:
2008_161_03_46_48

Observation Duration:
80 S

Integration time = 40 S



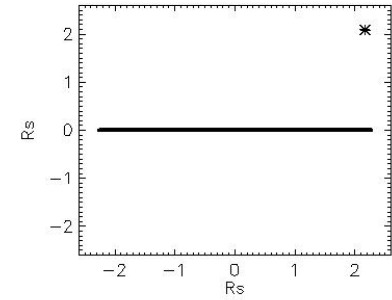
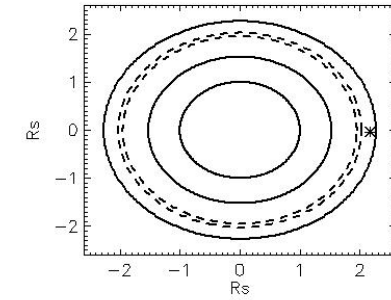
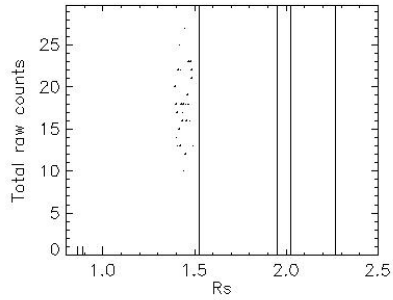
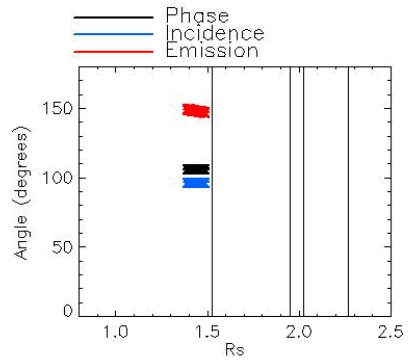
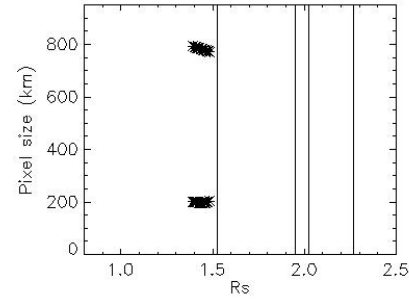
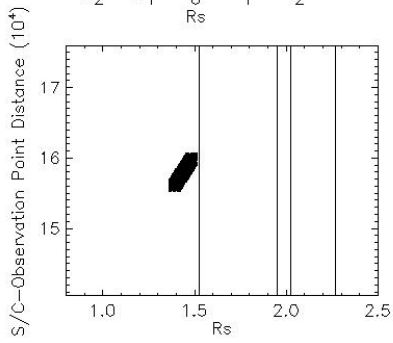


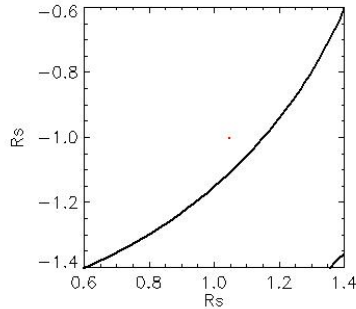
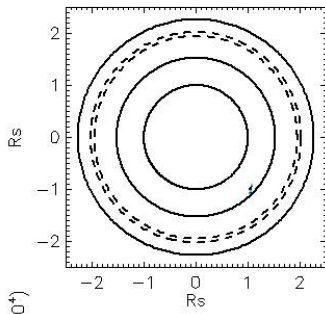
Observation Name:
UMS_071RLRDHRSSCHP001_ISS_1

Observation Date:
2008_161_03_48_28

Observation Duration:
80 S

Integration time = 40 S



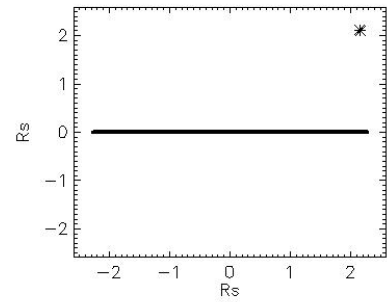
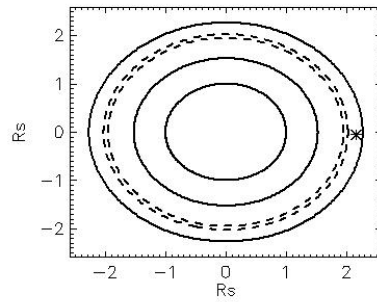
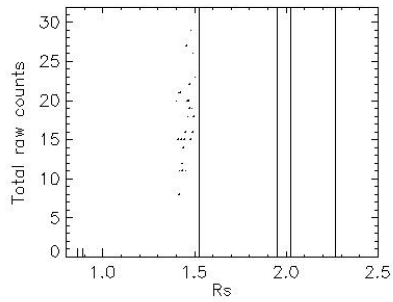
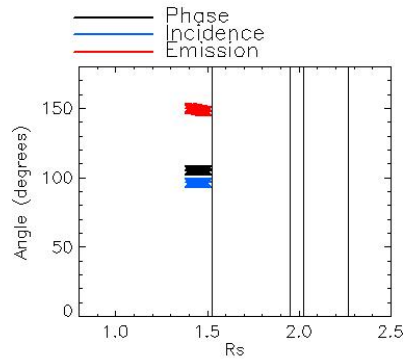
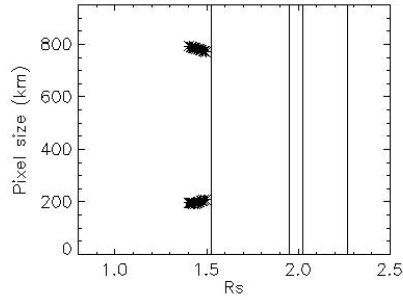
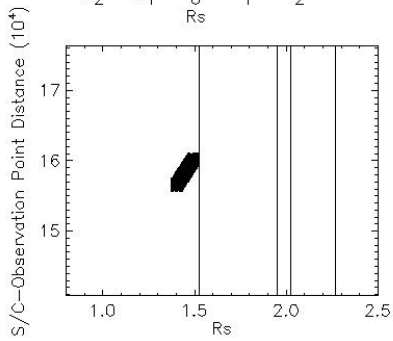


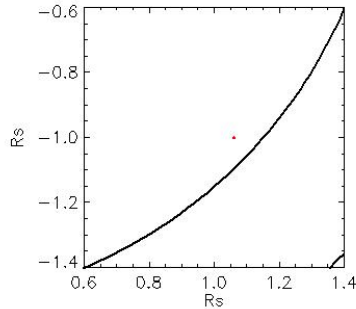
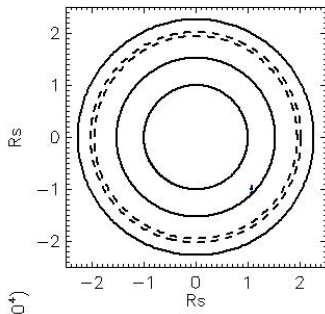
Observation Name:
UMS_071RLRDHRSSCHP001_ISS_1

Observation Date:
2008_161_03_50_07

Observation Duration:
80 S

Integration time = 40 S



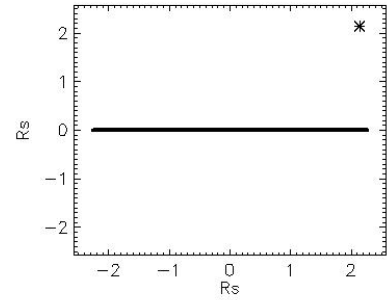
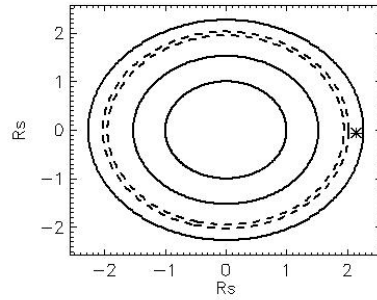
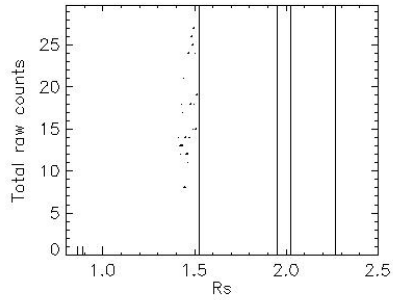
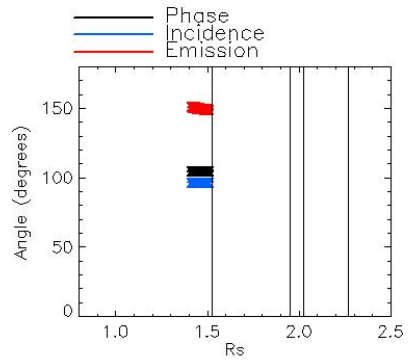
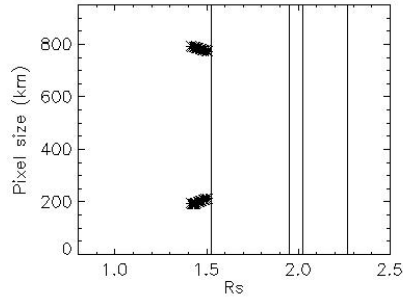
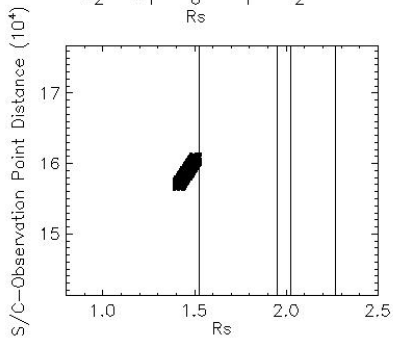


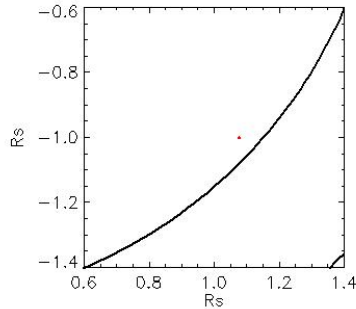
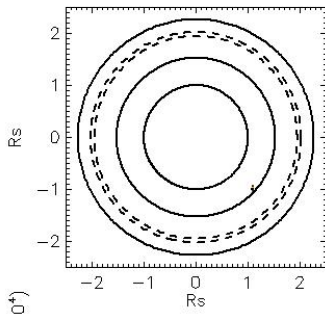
Observation Name:
UMS_071RLRDHRSSCHP001_ISS_1

Observation Date:
2008_161_03_51_46

Observation Duration:
80 S

Integration time = 40 S



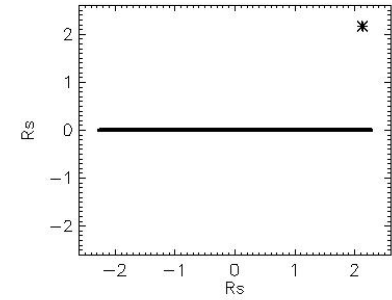
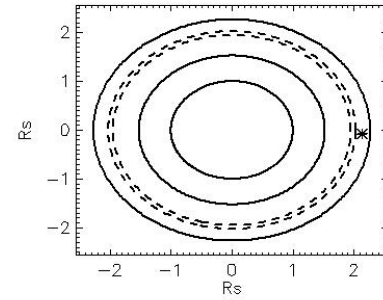
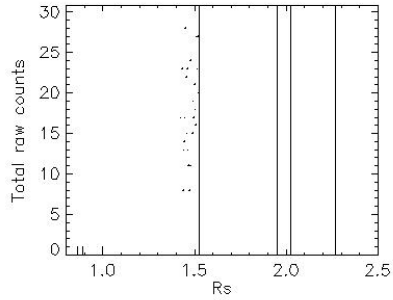
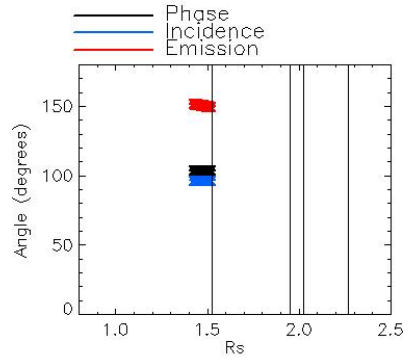
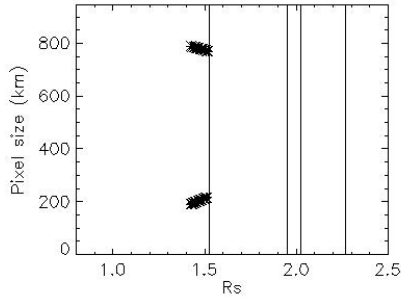
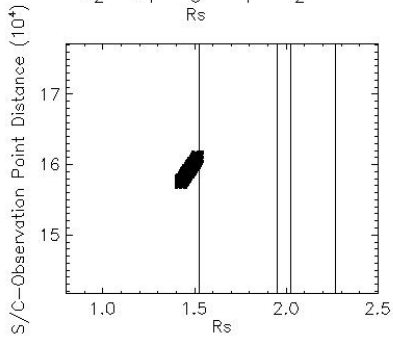


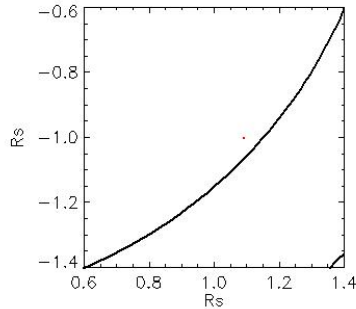
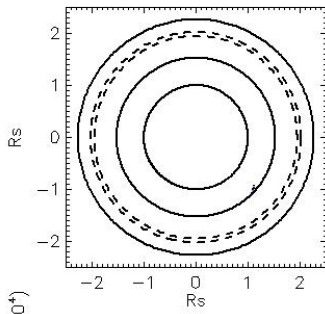
Observation Name:
UMS_071RLRDHRSSHP001_ISS_1

Observation Date:
2008_161_03_53_25

Observation Duration:
80 S

Integration time = 40 S



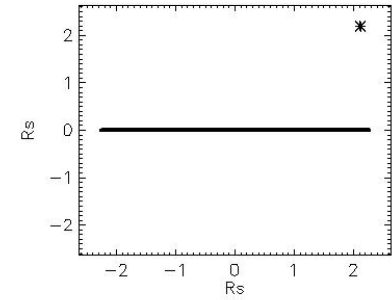
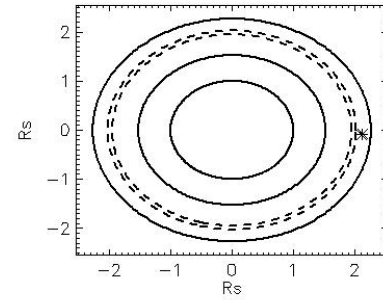
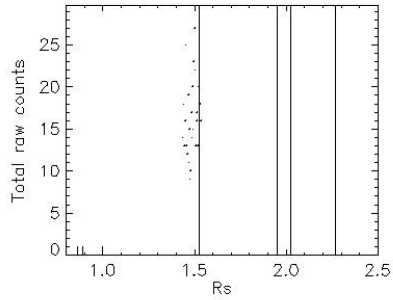
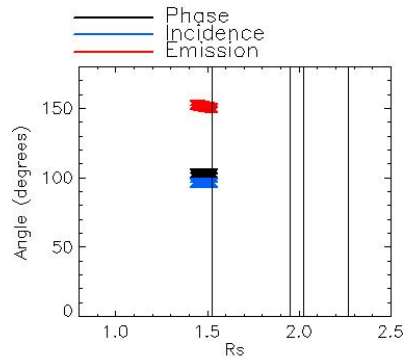
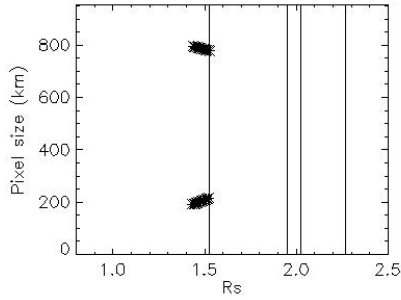
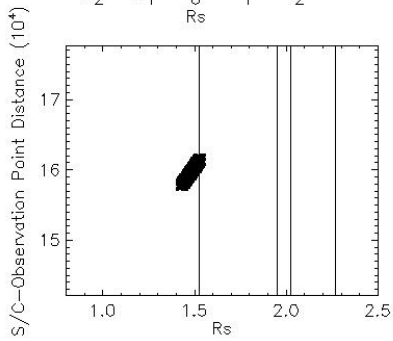


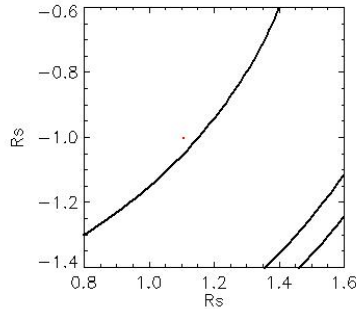
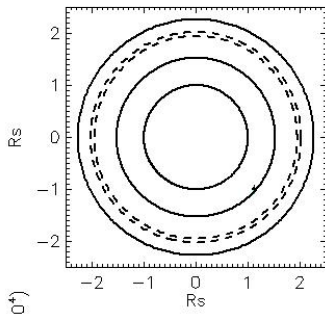
Observation Name:
UMS_071RLRDRSSCHP001_ISS_1

Observation Date:
2008_161_03_55_04

Observation Duration:
80 S

Integration time = 40 S



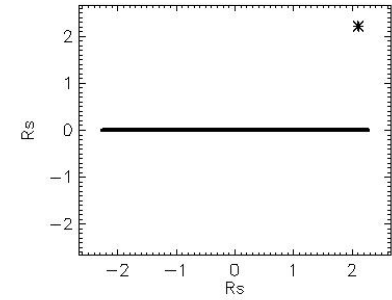
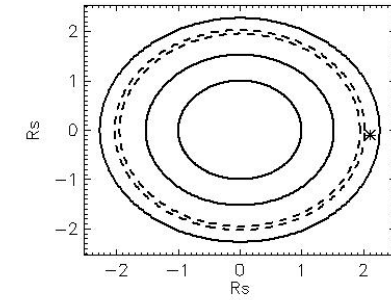
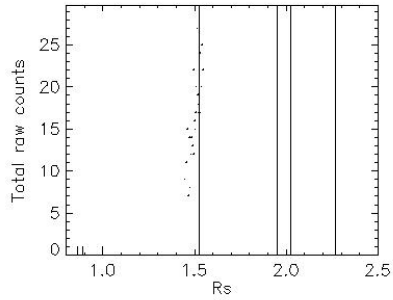
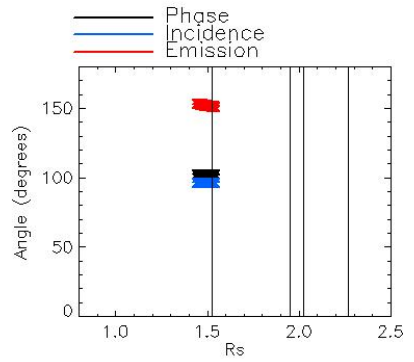
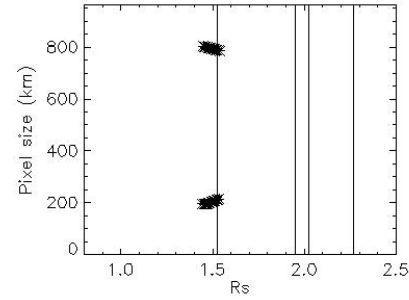
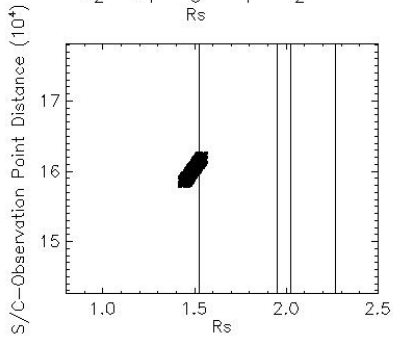


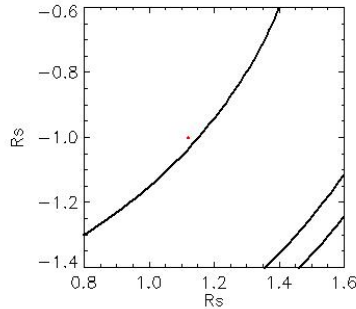
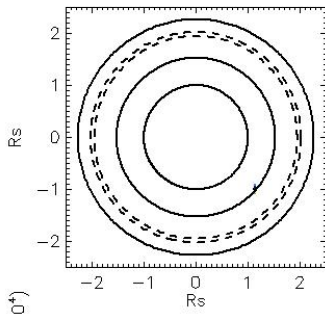
Observation Name:
UMS_071RLRDHRSSHP001_ISS_1

Observation Date:
2008_161_03_56_43

Observation Duration:
80 S

Integration time = 40 S



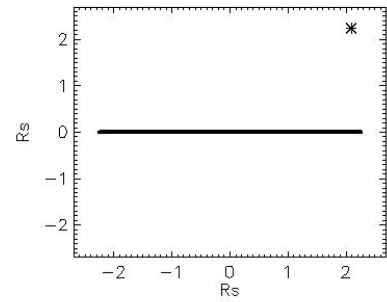
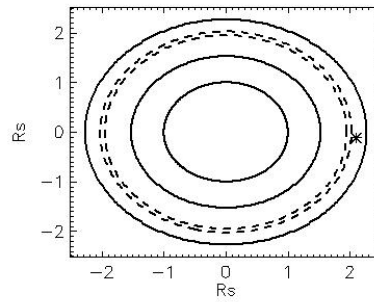
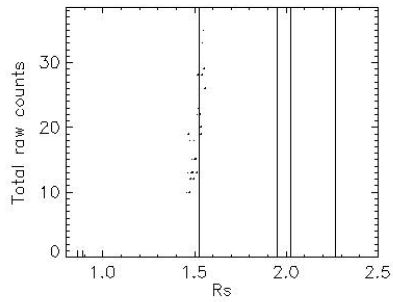
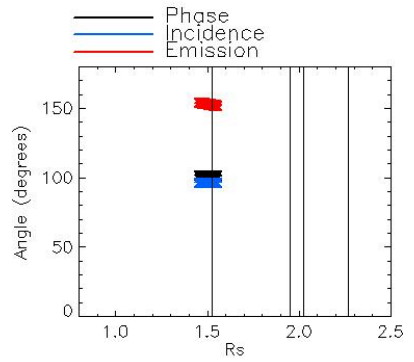
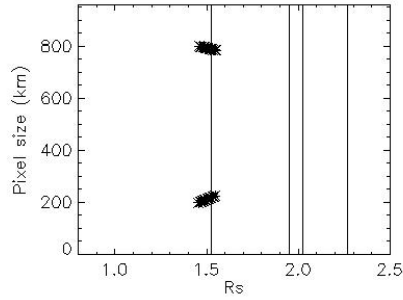
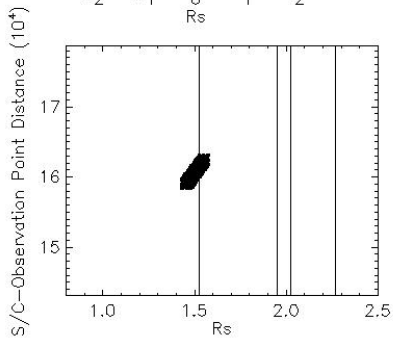


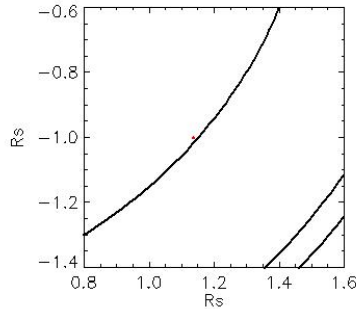
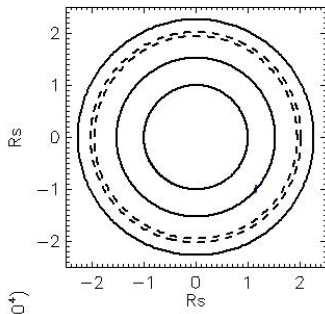
Observation Name:
UMS_071RLRDHRSSHP001_ISS_1

Observation Date:
2008_161_03_58_22

Observation Duration:
80 S

Integration time = 40 S



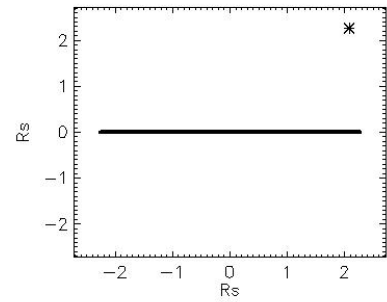
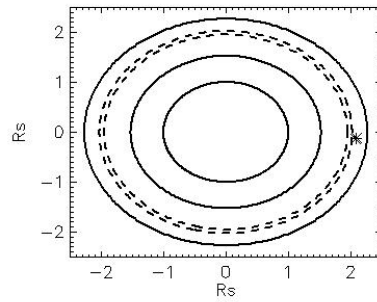
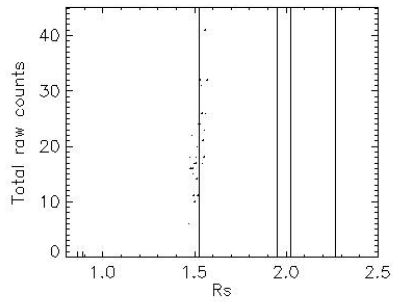
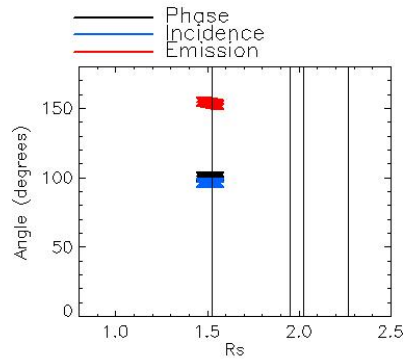
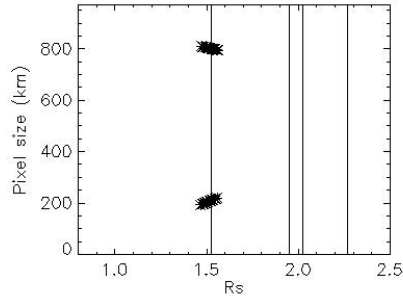
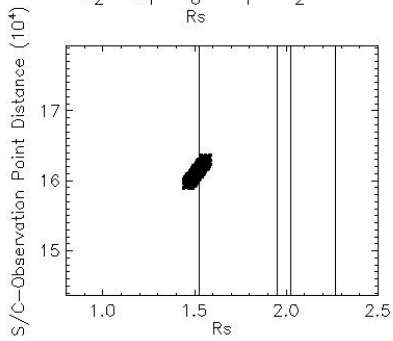


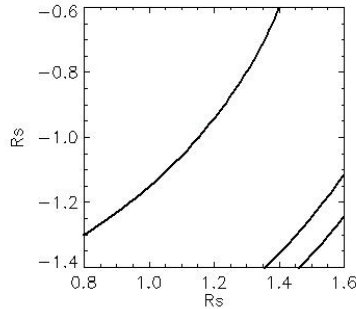
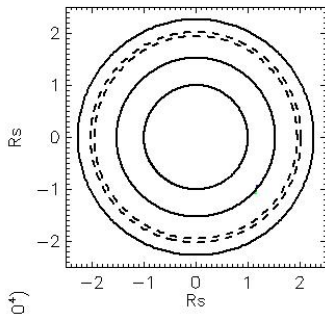
Observation Name:
UMS_071RLRDHRSSCHP001_ISS_1

Observation Date:
2008_161_04_00_01

Observation Duration:
80 S

Integration time = 40 S



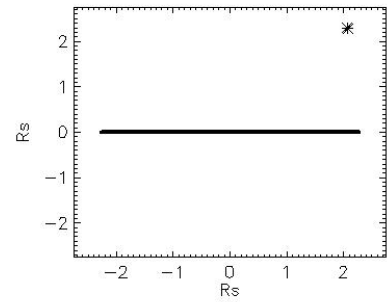
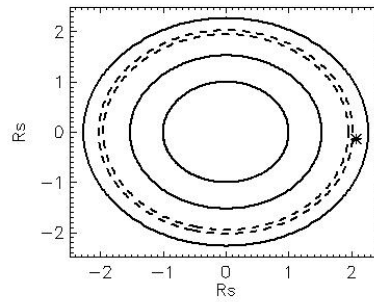
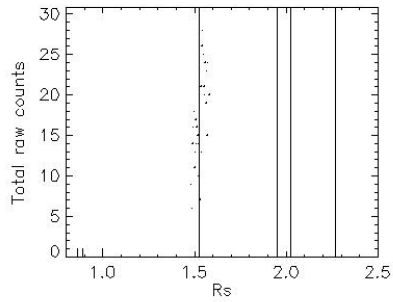
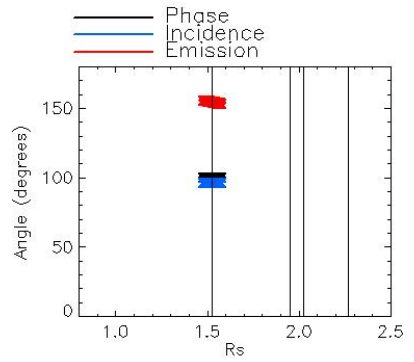
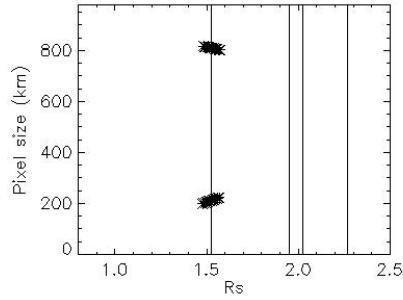
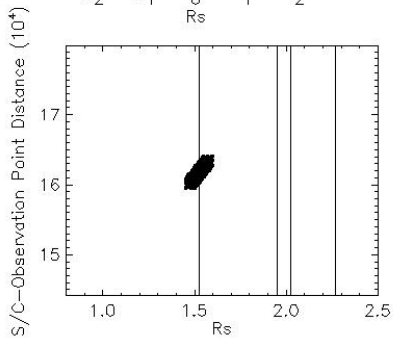


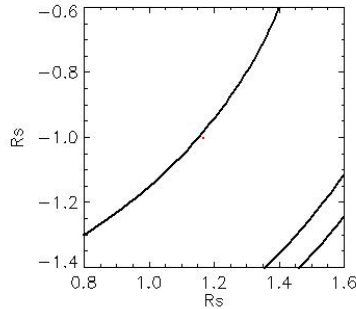
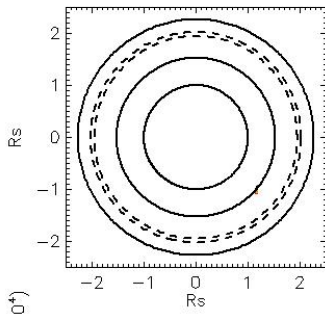
Observation Name:
UMS_071RLRDRSSCHP001_ISS_1

Observation Date:
2008_161_04_01_40

Observation Duration:
80 S

Integration time = 40 S



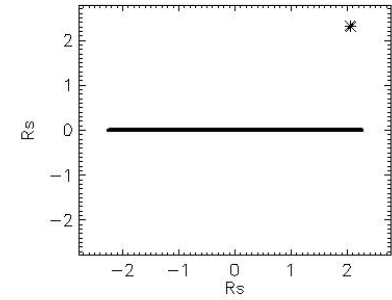
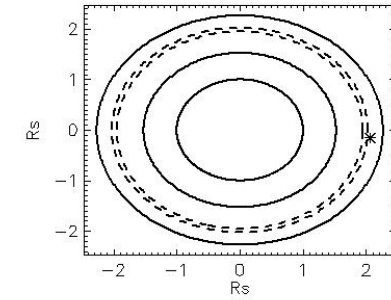
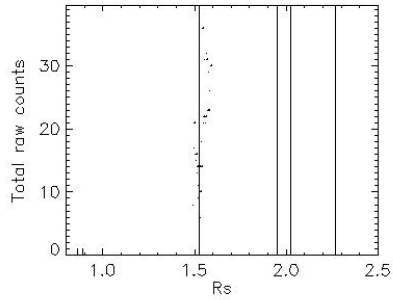
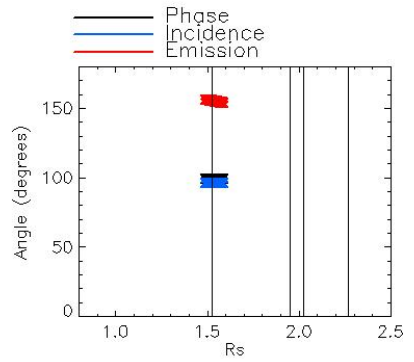
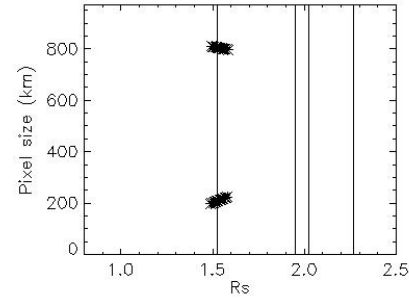
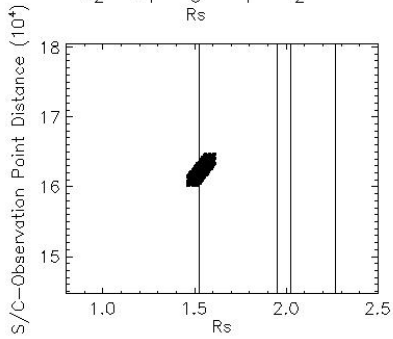


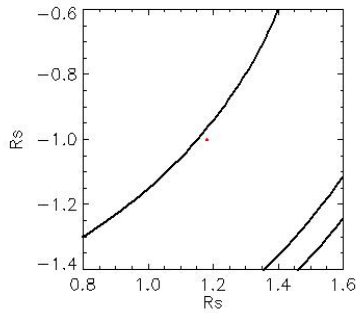
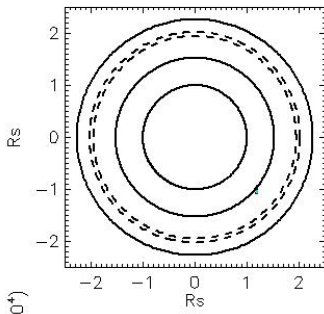
Observation Name:
UMS_071RLRDHRSSCHP001_ISS_1

Observation Date:
2008_161_04_03_18

Observation Duration:
80 S

Integration time = 40 S



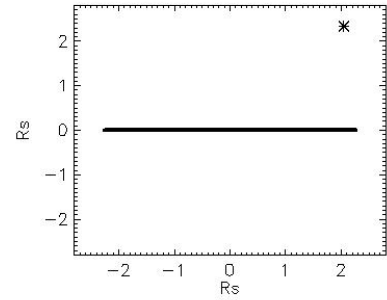
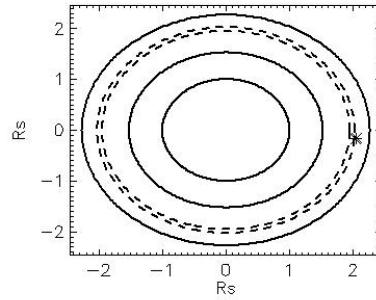
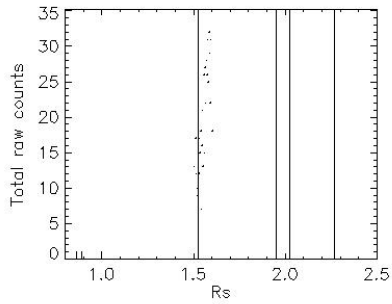
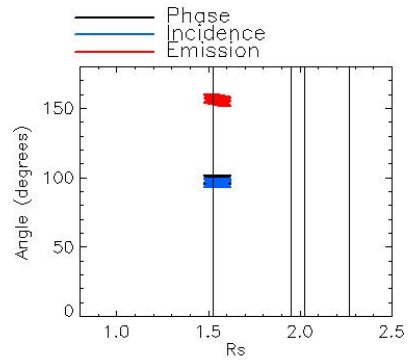
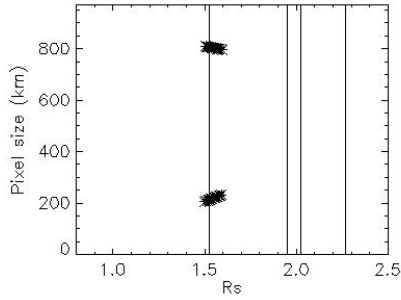
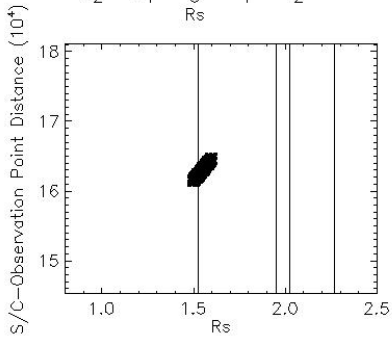


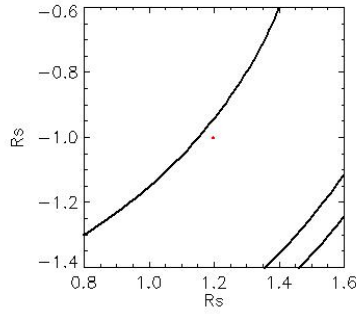
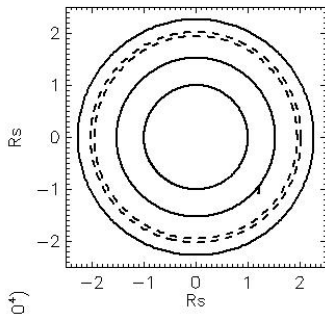
Observation Name:
UMS_071RLRDRSSCHP001_ISS_1

Observation Date:
2008_161_04_04_56

Observation Duration:
80 S

Integration time = 40 S



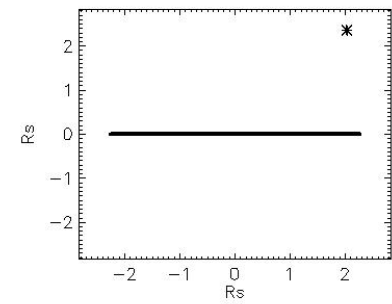
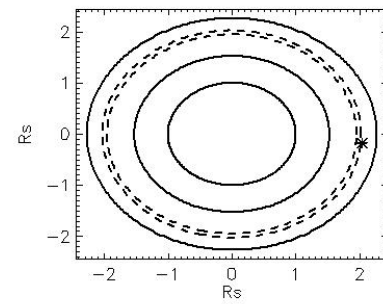
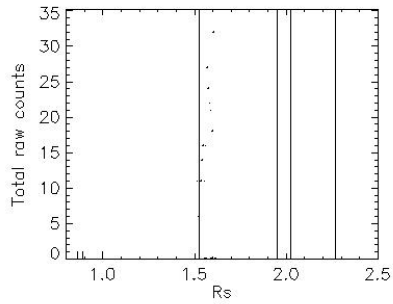
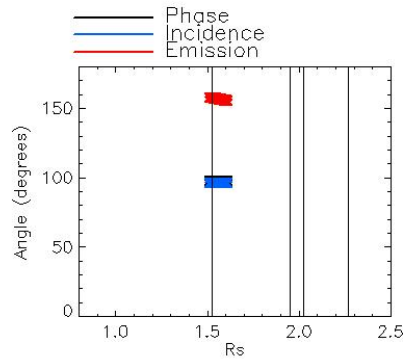
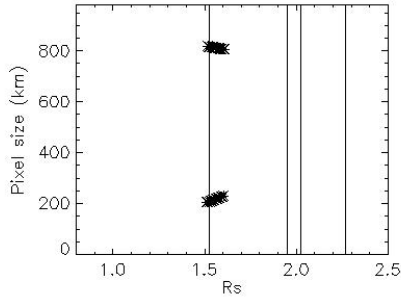
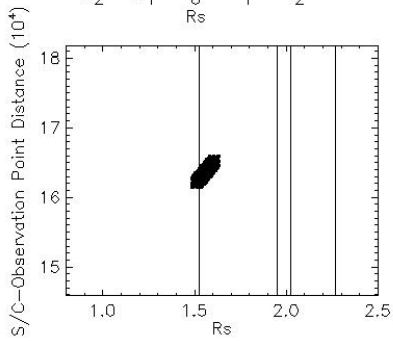


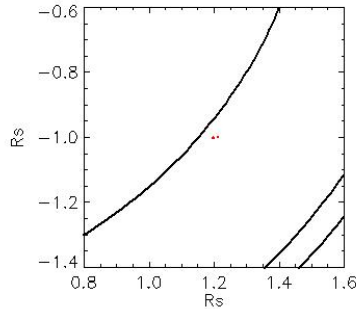
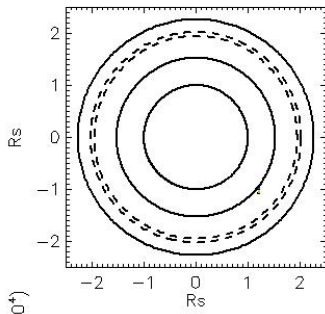
Observation Name:
UMS_071RLRDHRSSCHP001_ISS_1

Observation Date:
2008_161_04_06_34

Observation Duration:
80 S

Integration time = 40 S





Observation Name:
UMS_071RLRDRSSCHP001_ISS_1

Observation Date:
2008_161_04_07_14

Observation Duration:
40 S

Integration time = 40 S

