

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.

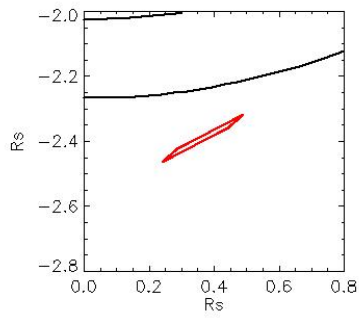
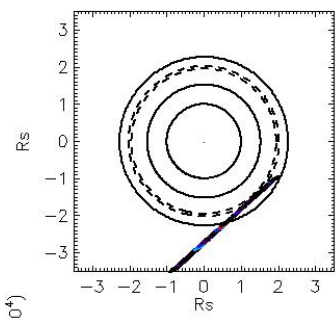
Middle center: Maximum projected smeared pixel size for all data records plotted against the radial location of the projected pixel at the middle of the integration period.

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

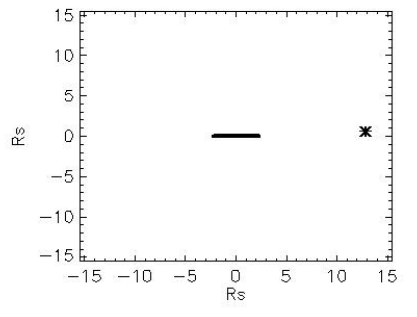
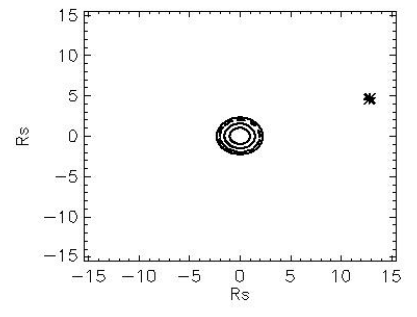
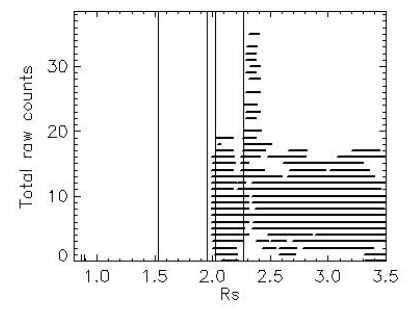
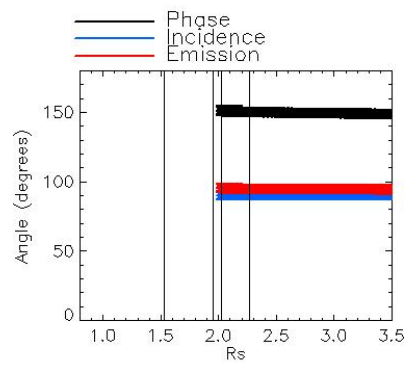
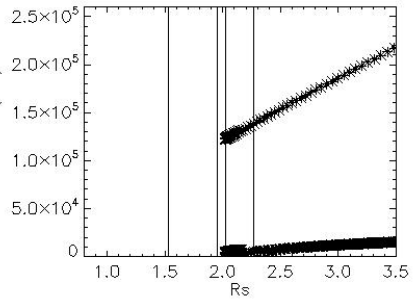
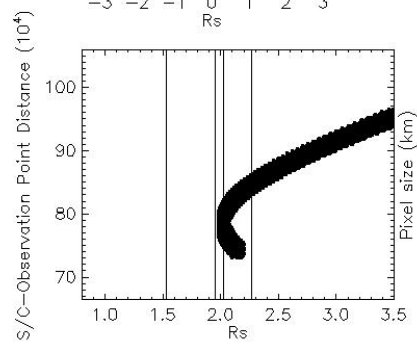
Bottom left: Total raw counts from 175.2 – 189.8 nm for each pixel for all data records.

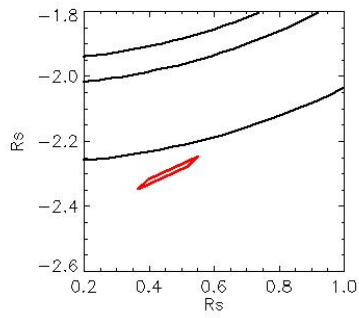
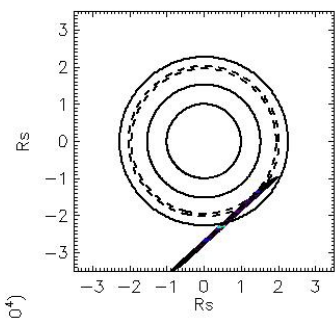
Bottom center: Location of spacecraft throughout an observation looking down on Saturn North Pole with the Sun to the left.

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

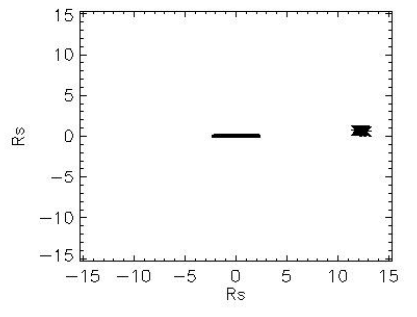
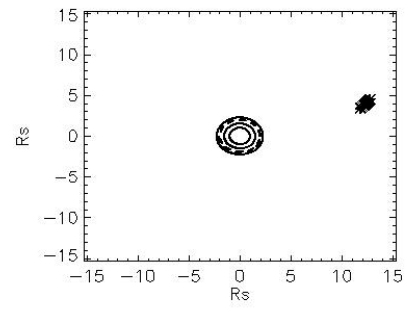
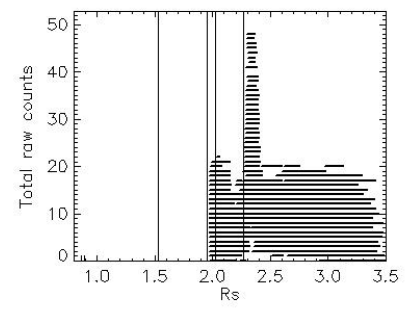
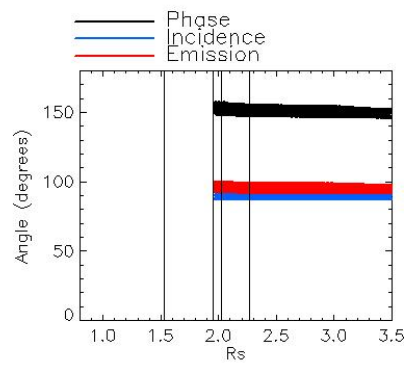
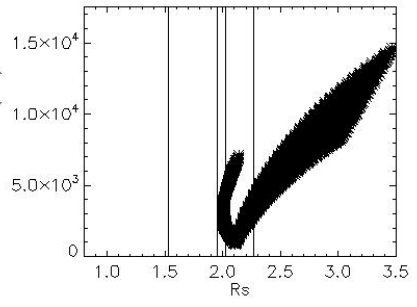
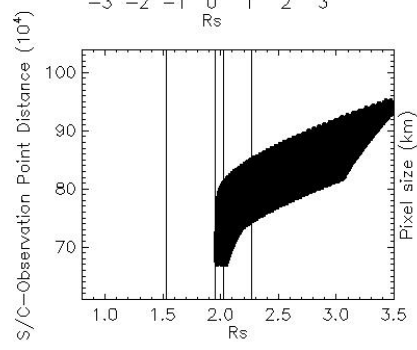


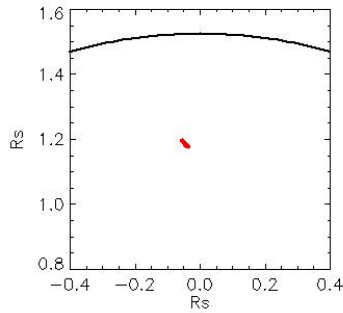
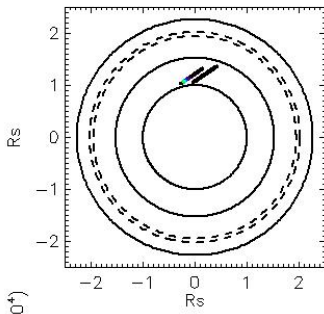
Observation Name:
 UVS_116RLHIPHASE001_VIMS
 Observation Date:
 2009_222_11_42_43
 Observation Duration:
 1600 S
 Integration time = 100 S





Observation Name:
 UVS_116RLHIPHASE001_VIMS
 Observation Date:
 2009_222_12_09_23
 Observation Duration:
 11700 S
 Integration time = 100 S



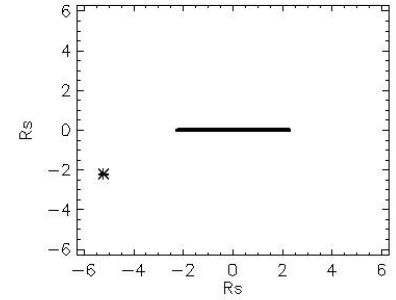
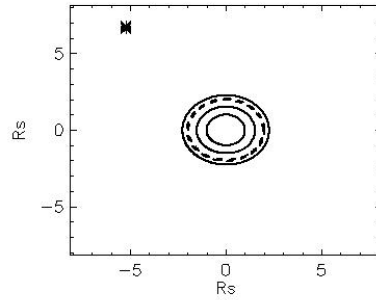
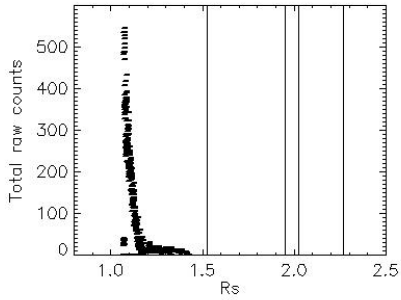
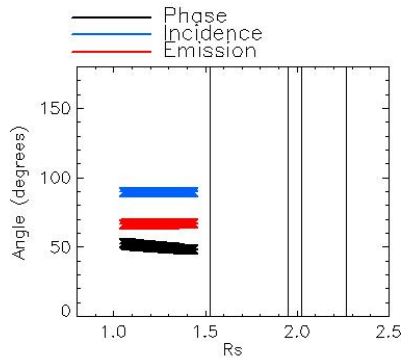
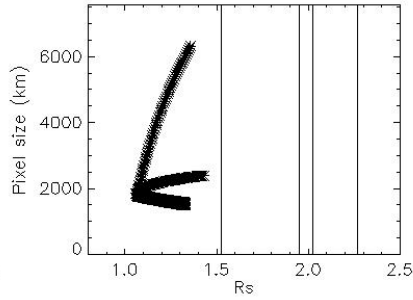
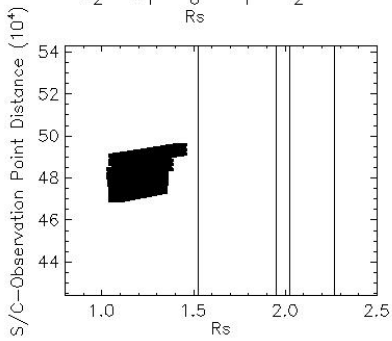


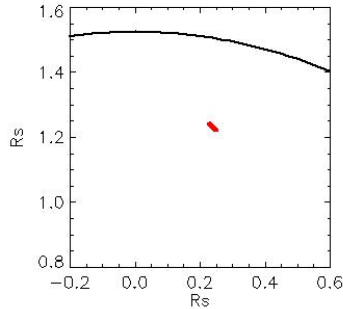
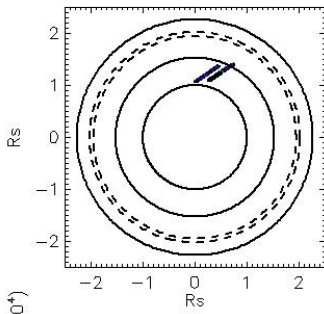
Observation Name:
UMS_116RLPOSTEQX001_VIMS

Observation Date:
2009_224_00_01_48

Observation Duration:
1200 S

Integration time = 100 S



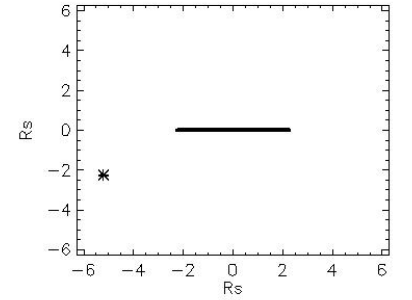
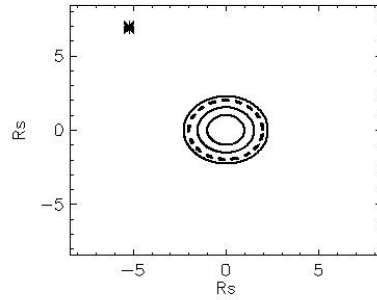
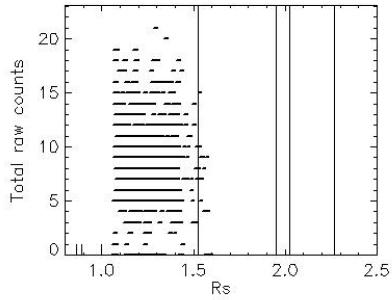
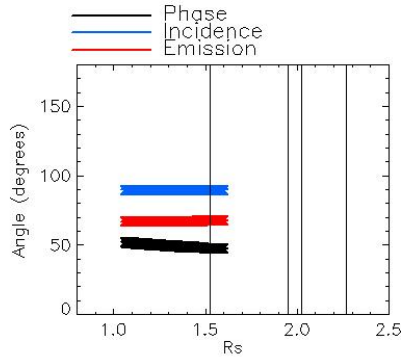
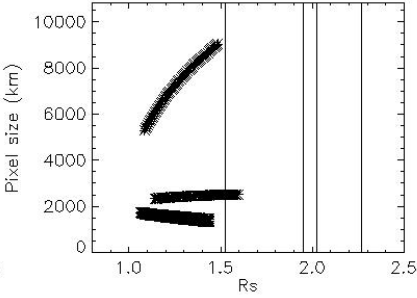
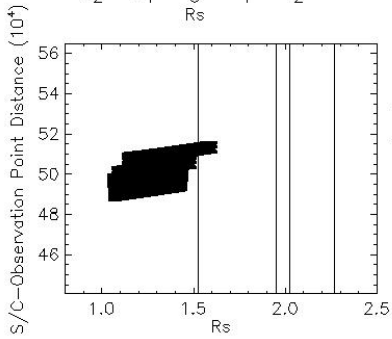


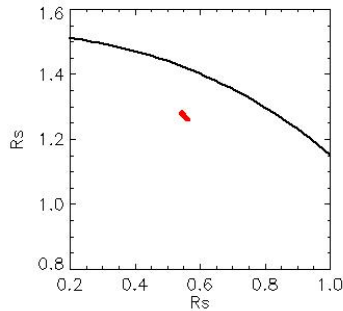
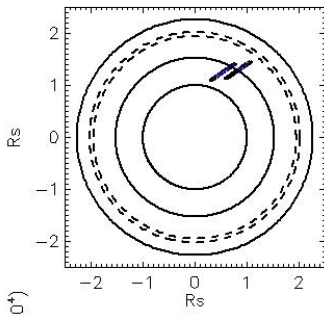
Observation Name:
UMS_116RLPOSTEQX001_VIMS

Observation Date:
2009_224_00_22_04

Observation Duration:
1200 S

Integration time = 100 S



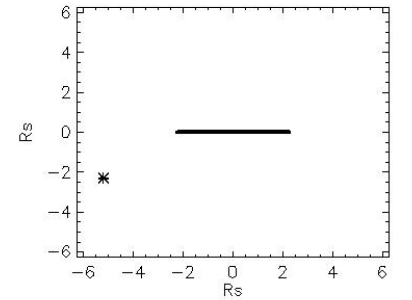
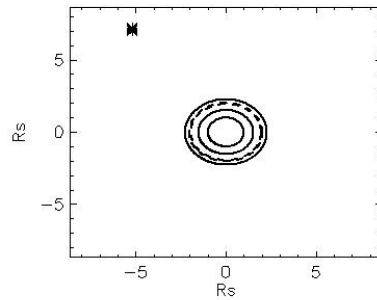
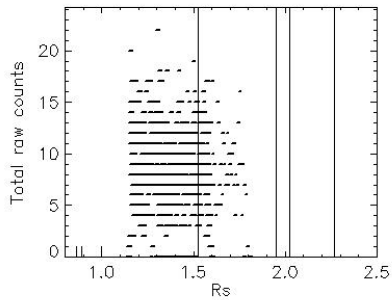
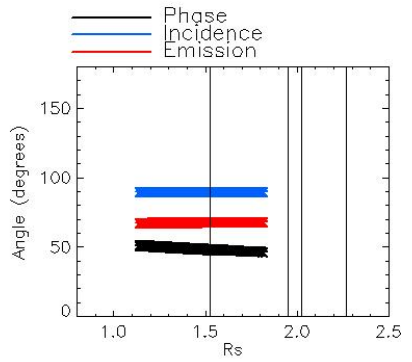
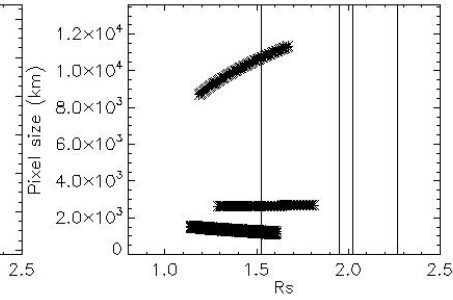
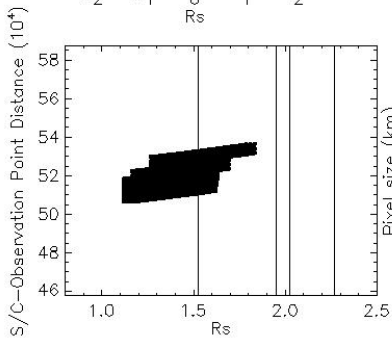


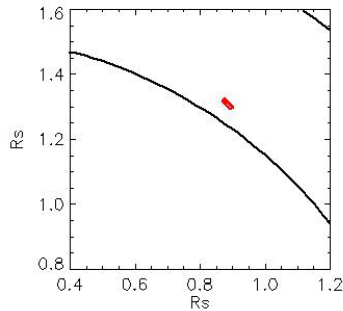
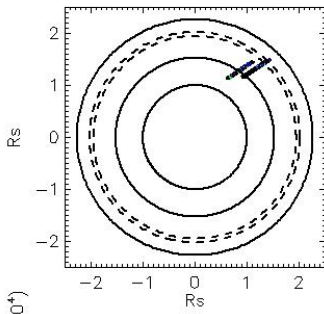
Observation Name:
UMS_116RLPOSTEQX001_VIMS

Observation Date:
2009_224_00_42_19

Observation Duration:
1200 S

Integration time = 100 S



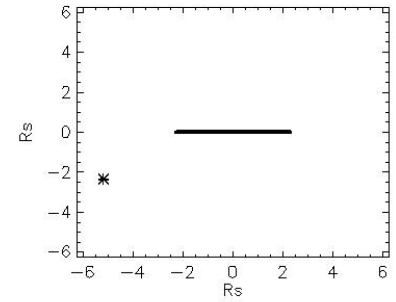
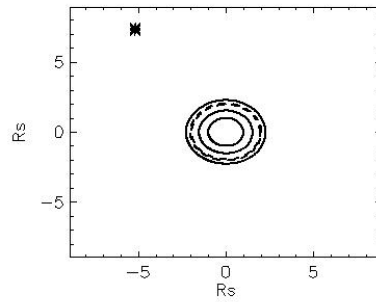
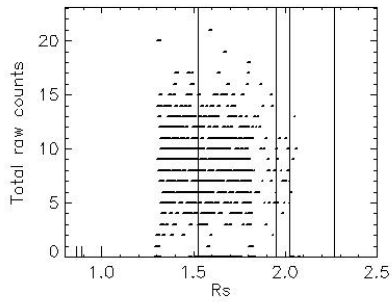
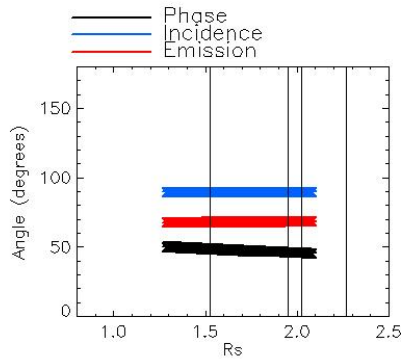
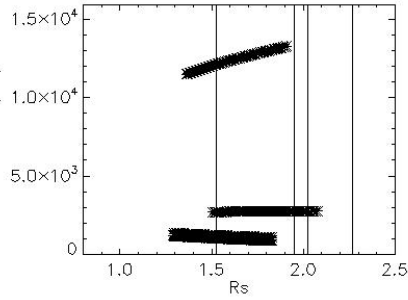
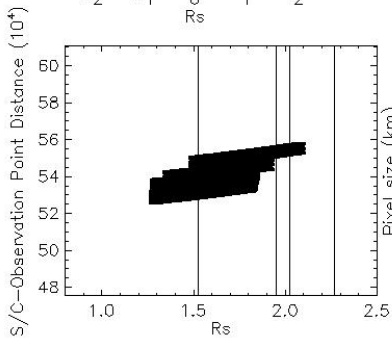


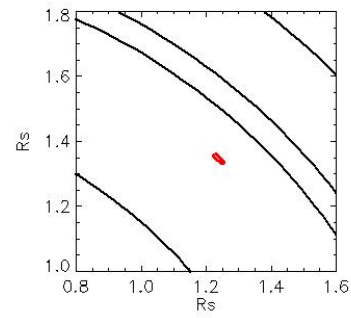
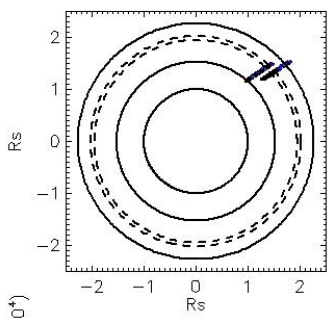
Observation Name:
UMS_116RLPOSTEQX001_VIMS

Observation Date:
2009_224_01_02_34

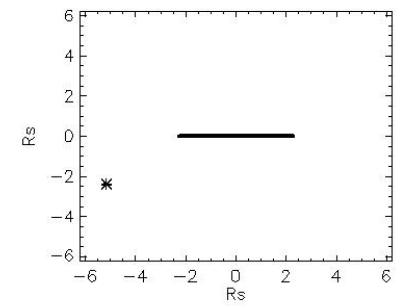
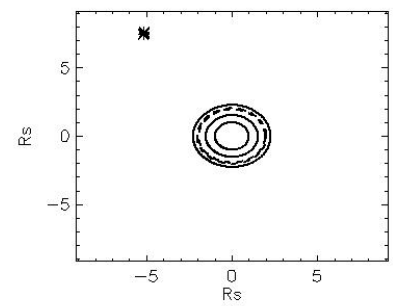
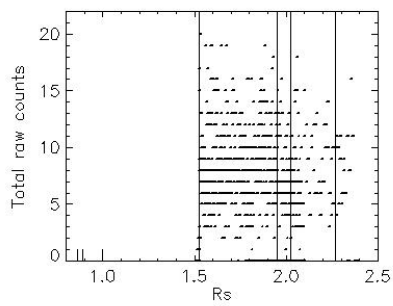
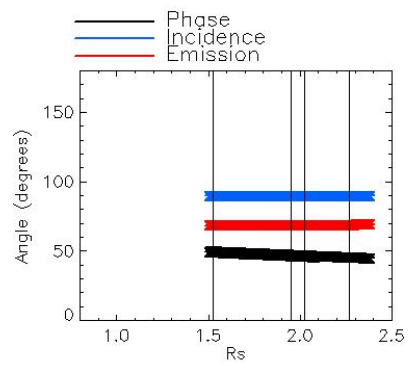
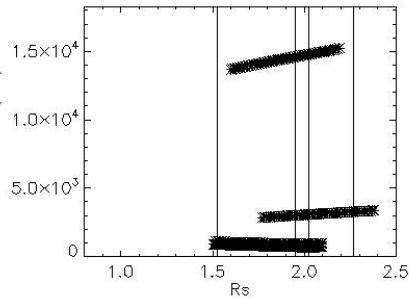
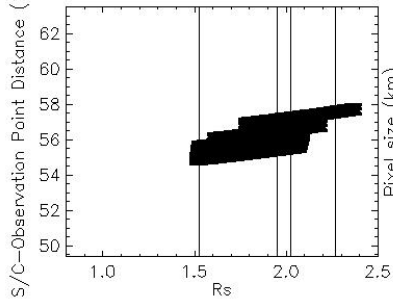
Observation Duration:
1200 S

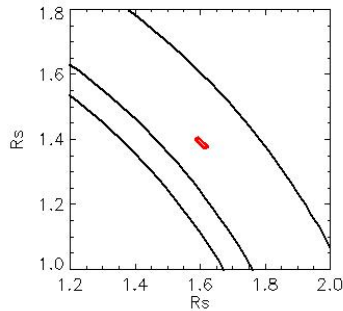
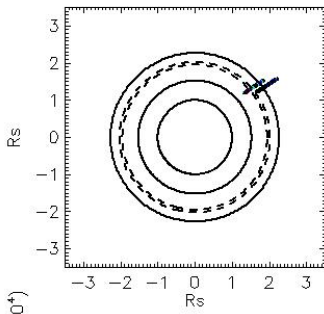
Integration time = 100 S





Observation Name:
 UVS_116RLPOSTEQX001_VIMS
 Observation Date:
 2009_224_01_22_49
 Observation Duration:
 1200 S
 Integration time = 100 S



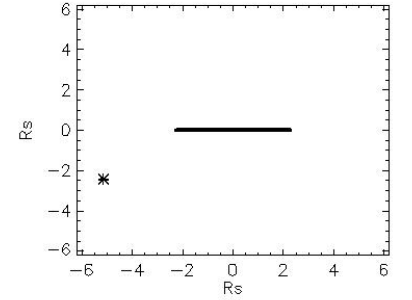
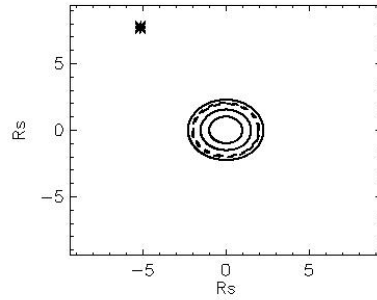
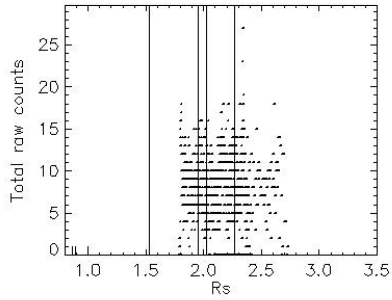
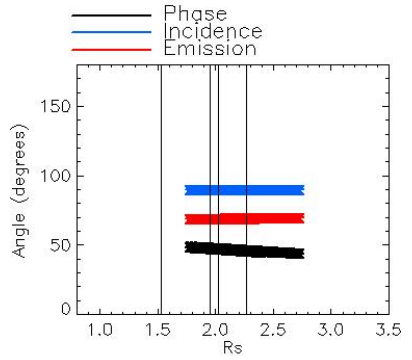
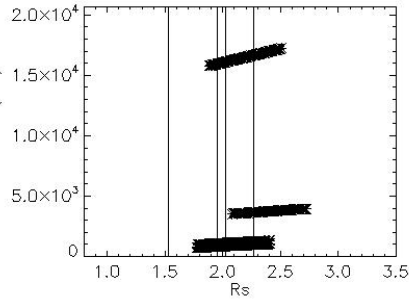
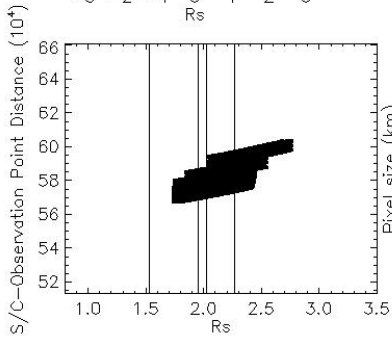


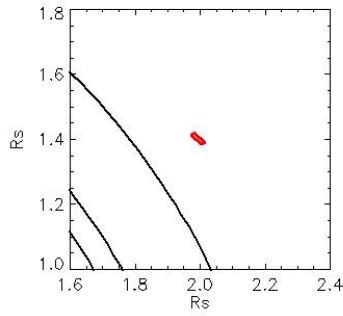
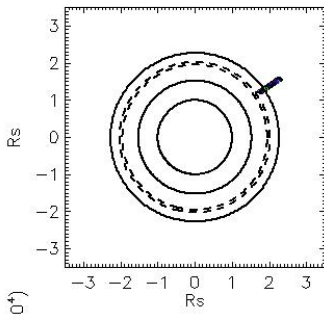
Observation Name:
UMS_116RLPOSTEQX001_VIMS

Observation Date:
2009_224_01_43_04

Observation Duration:
1200 S

Integration time = 100 S



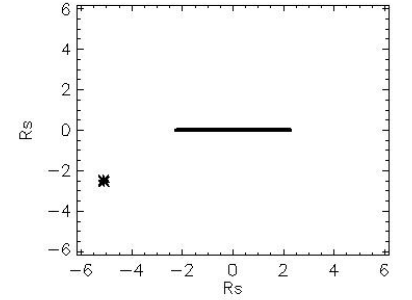
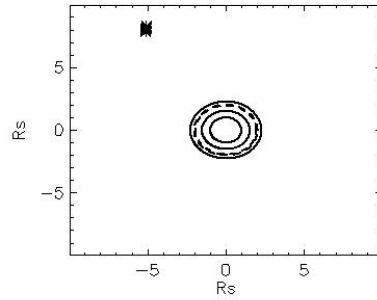
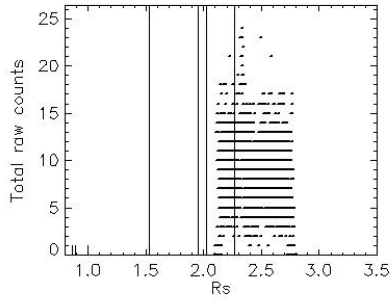
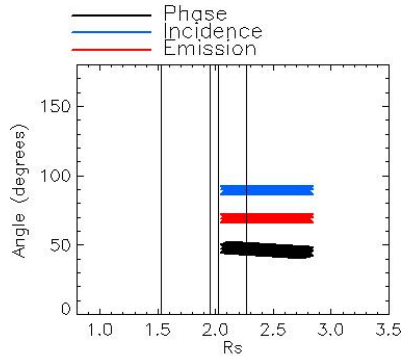
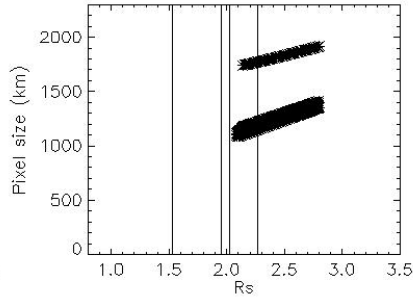
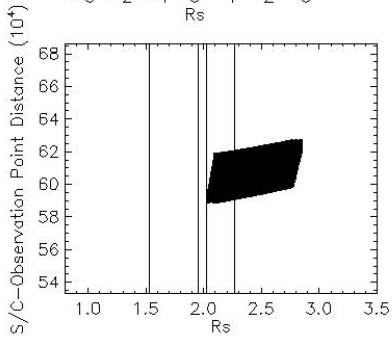


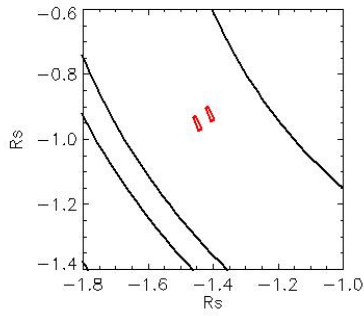
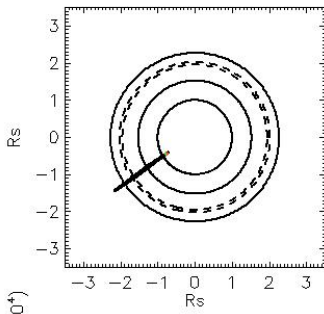
Observation Name:
UMS_116RLPOSTEQX001_VIMS

Observation Date:
2009_224_02_03_19

Observation Duration:
3000 S

Integration time = 100 S



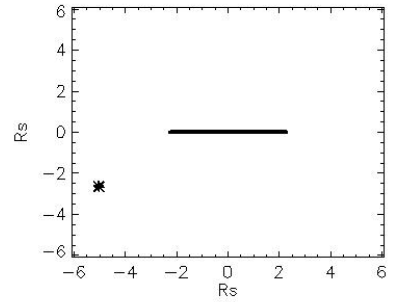
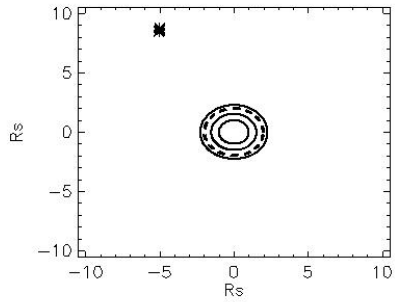
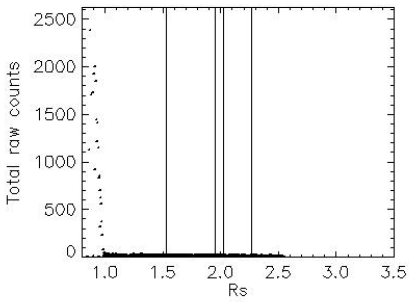
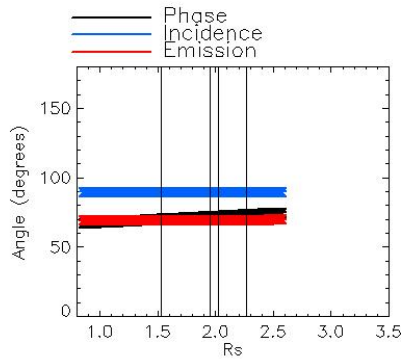
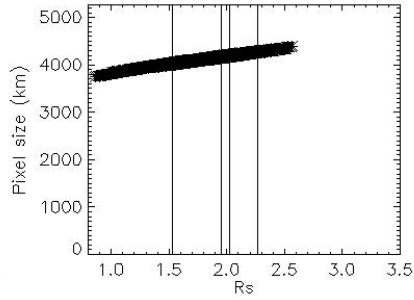
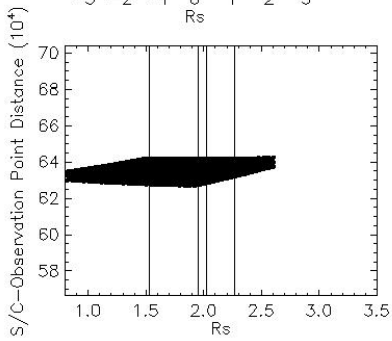


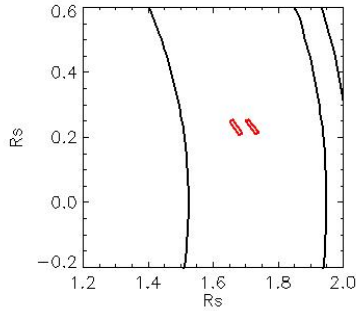
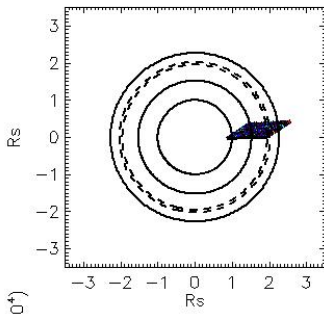
Observation Name:
UMS_116RLEQBS001_CIRS

Observation Date:
2009_224_03_07_33

Observation Duration:
2200 S

Integration time = 100 S



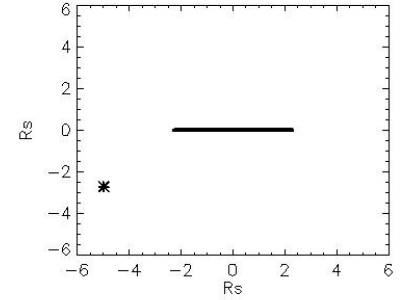
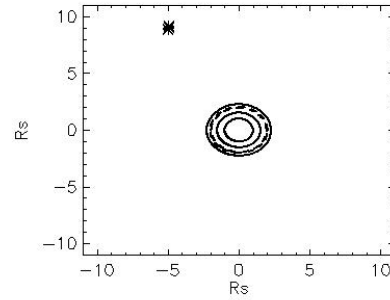
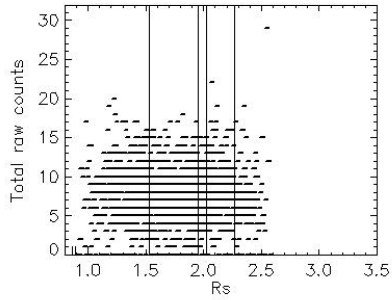
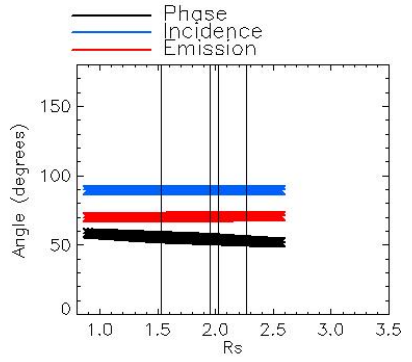
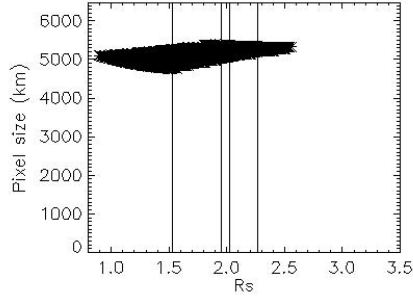
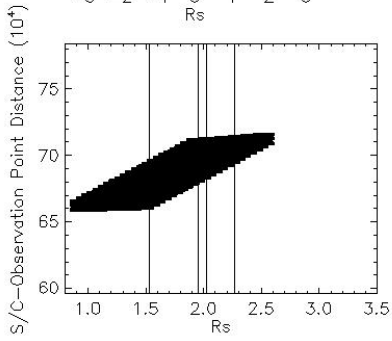


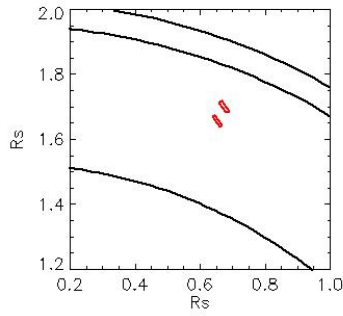
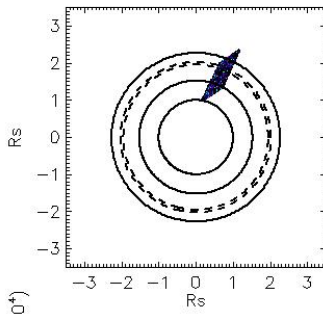
Observation Name:
UMS_116RLEQBS001_CIRS

Observation Date:
2009_224_03_51_33

Observation Duration:
2200 S

Integration time = 100 S



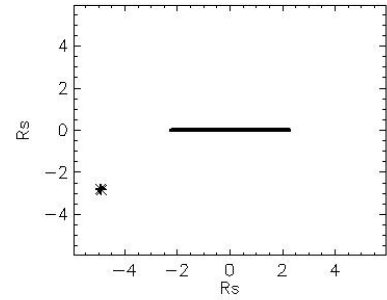
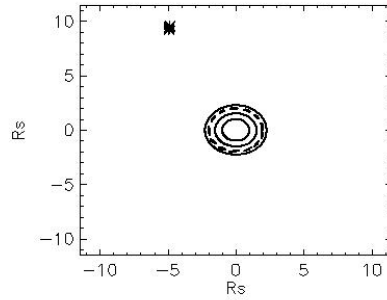
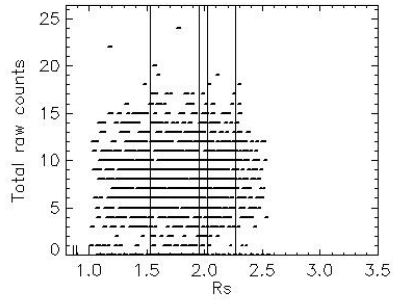
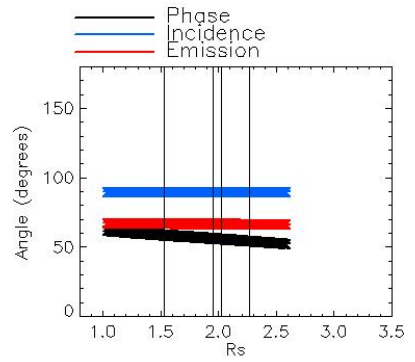
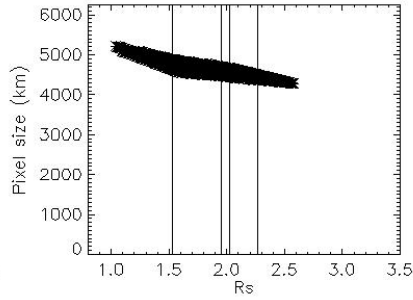
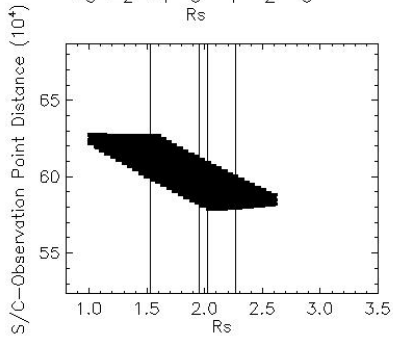


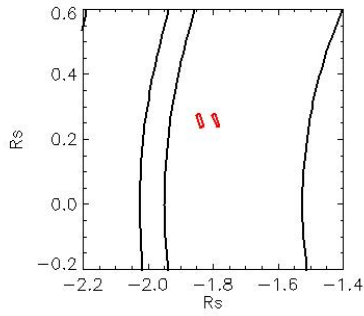
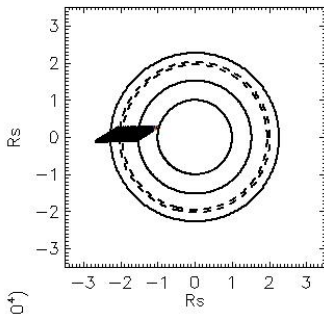
Observation Name:
UMS_116RLEQBS001_CIRS

Observation Date:
2009_224_04_35_33

Observation Duration:
2200 S

Integration time = 100 S



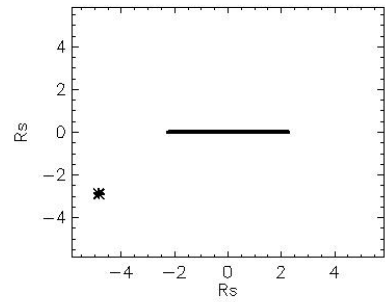
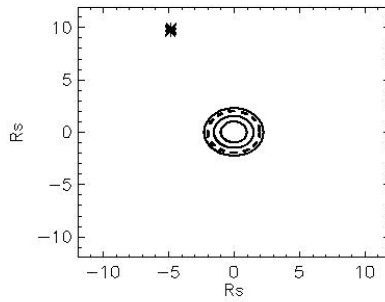
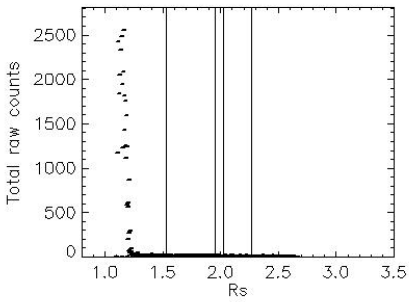
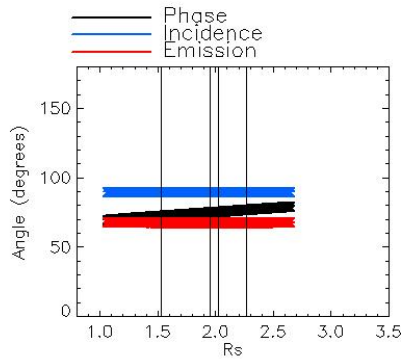
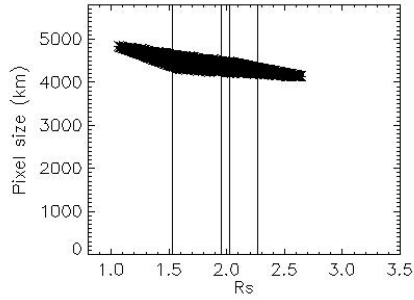
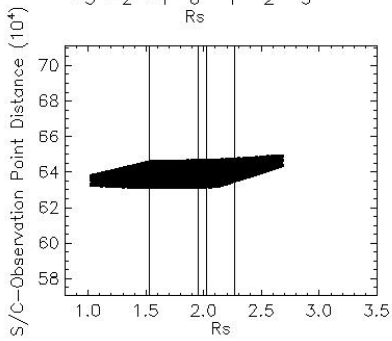


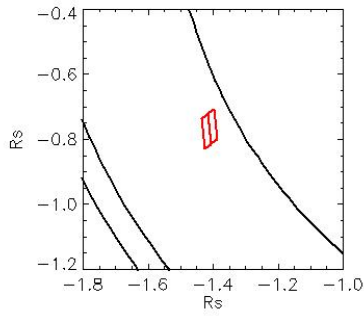
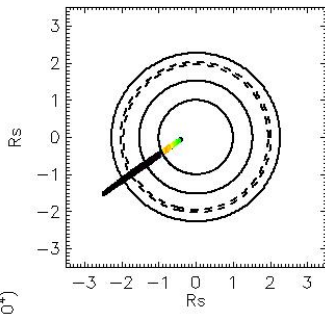
Observation Name:
UWS_116RLEQBS001_CIRS

Observation Date:
2009_224_05_18_33

Observation Duration:
2200 S

Integration time = 100 S



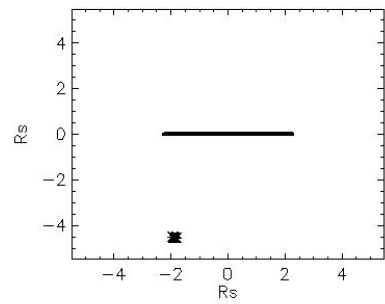
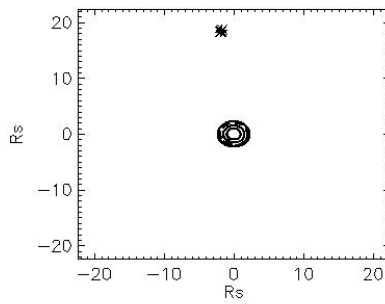
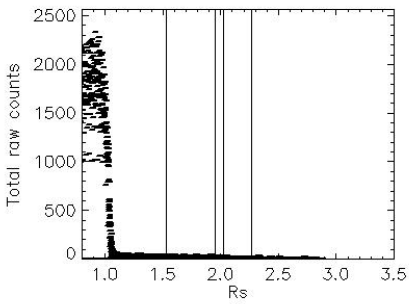
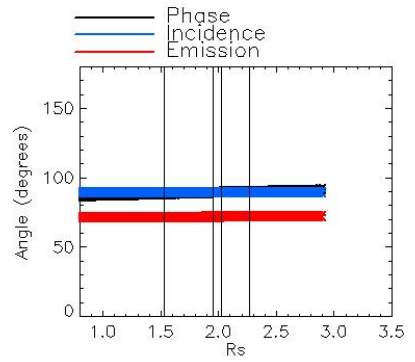
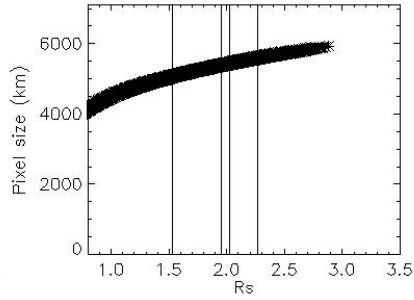
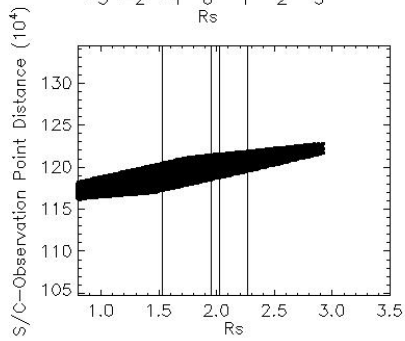


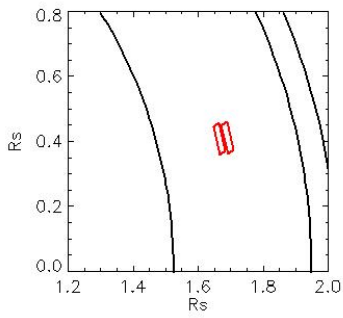
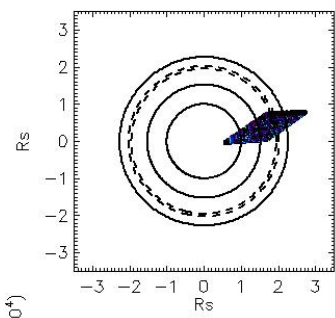
Observation Name:
UMS_116RLEQLBN001_CIRS

Observation Date:
2009_225_02_41_32

Observation Duration:
4300 S

Integration time = 100 S



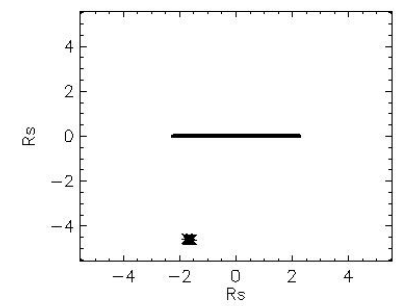
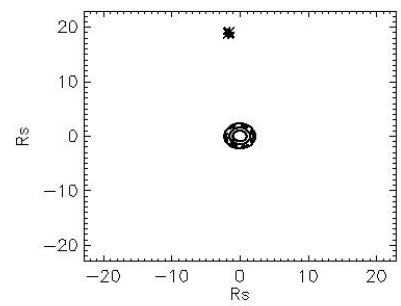
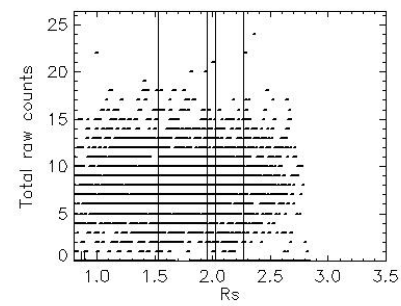
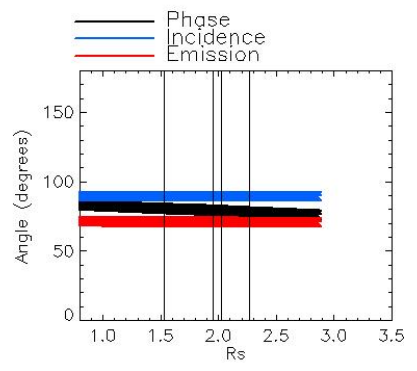
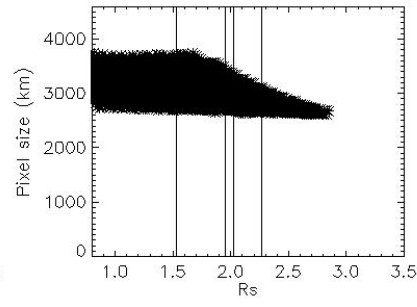
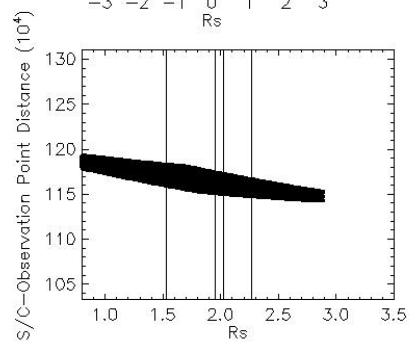


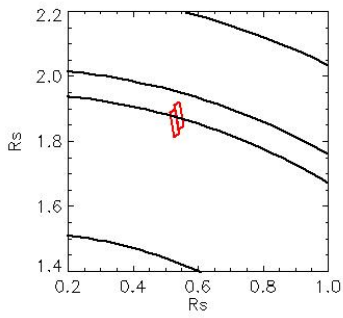
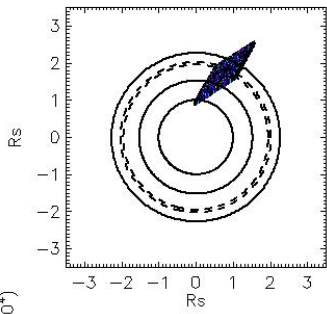
Observation Name:
UVS_116RLEQLBN001_CIRS

Observation Date:
2009_225_04_00_32

Observation Duration:
4300 S

Integration time = 100 S



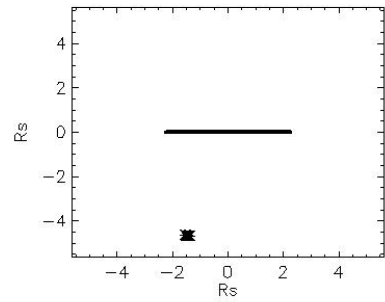
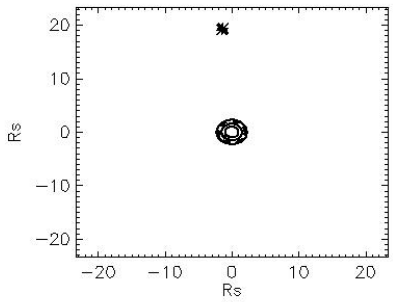
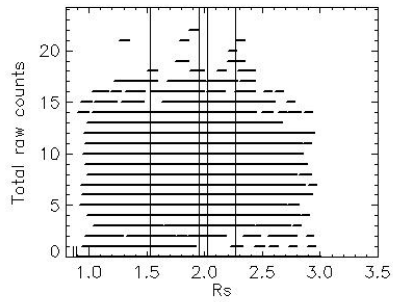
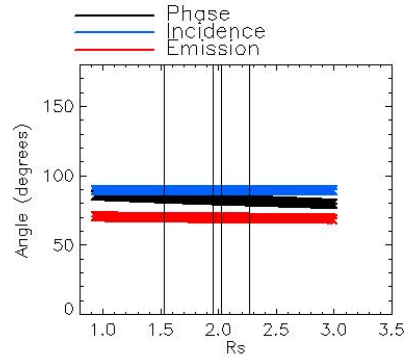
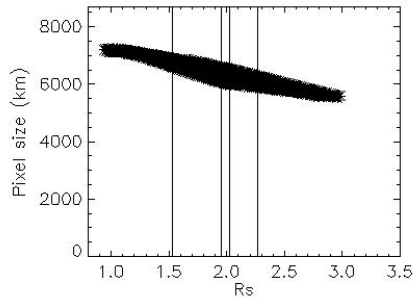
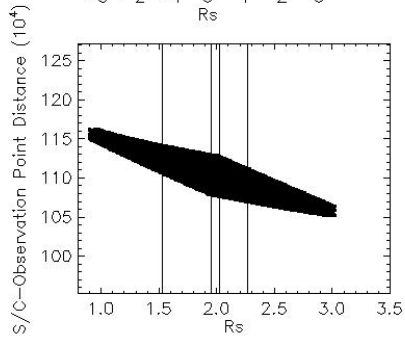


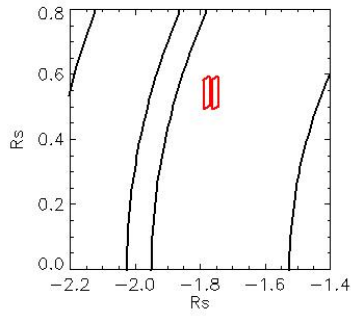
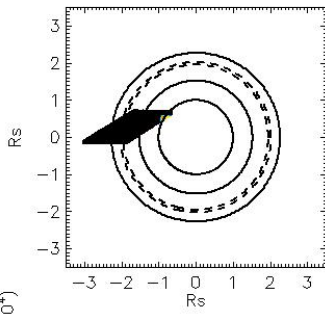
Observation Name:
UMS_116RLEQLBN001_CIRS

Observation Date:
2009_225_05_19_32

Observation Duration:
4300 S

Integration time = 100 S



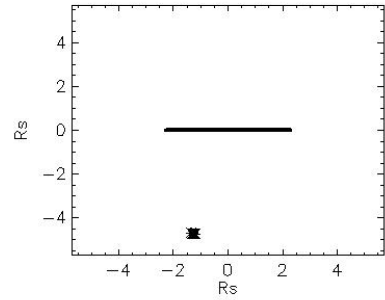
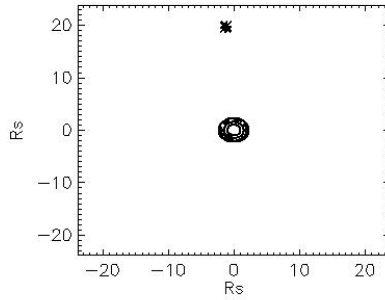
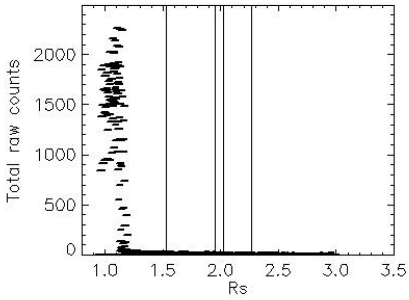
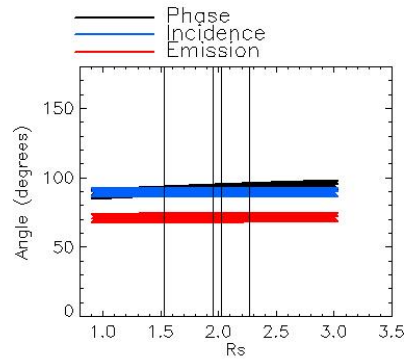
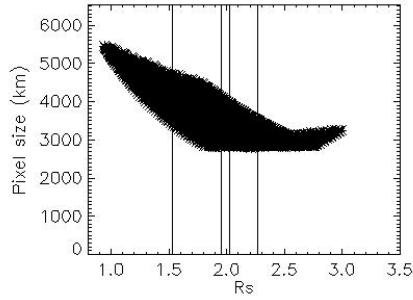
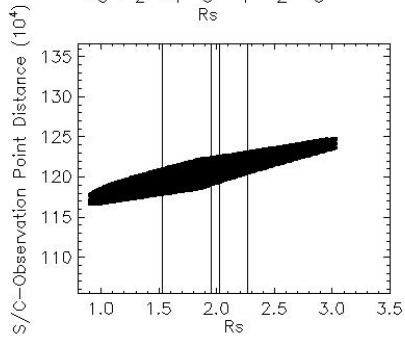


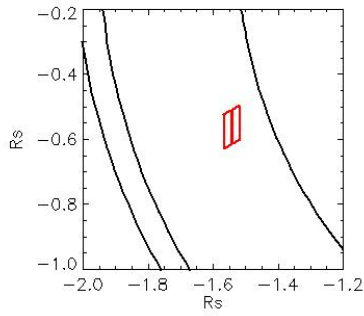
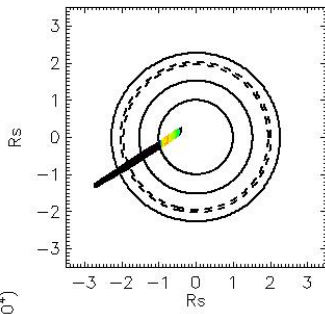
Observation Name:
UVS_116RLEQLBN001_CIRS

Observation Date:
2009_225_06_38_32

Observation Duration:
4300 S

Integration time = 100 S



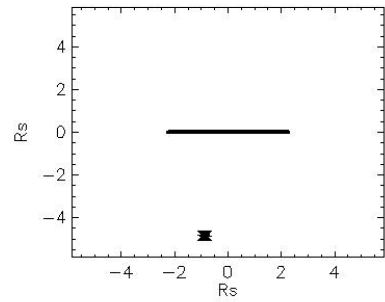
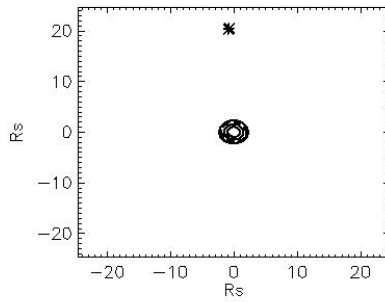
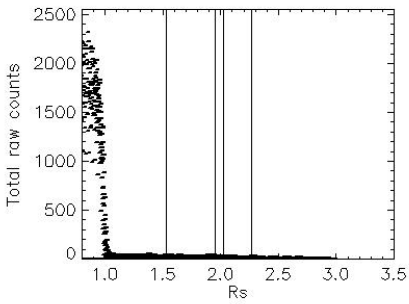
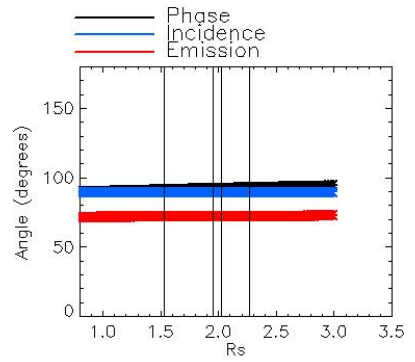
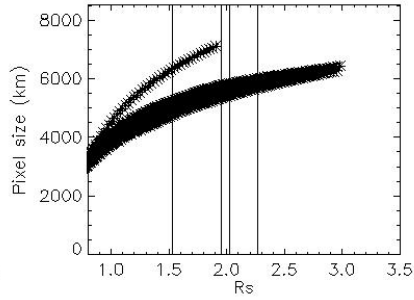
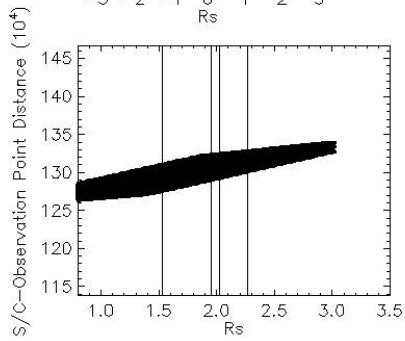


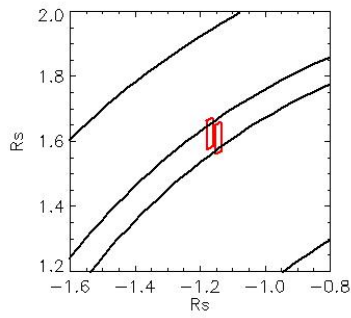
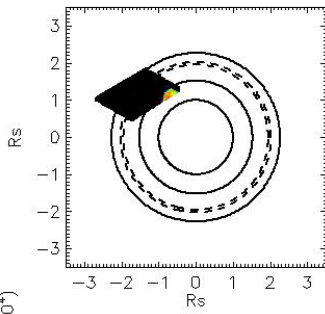
Observation Name:
UVS_116RLMAPN20MP001_CIRS

Observation Date:
2009_225_09_16_33

Observation Duration:
3700 S

Integration time = 100 S



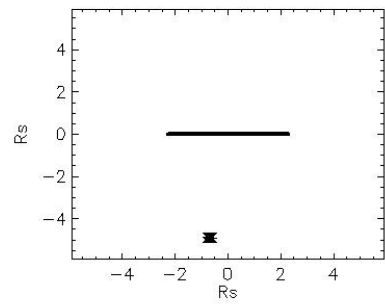
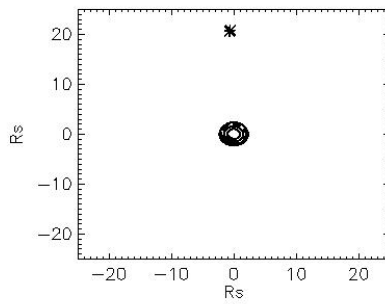
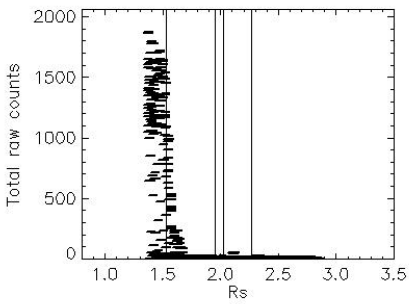
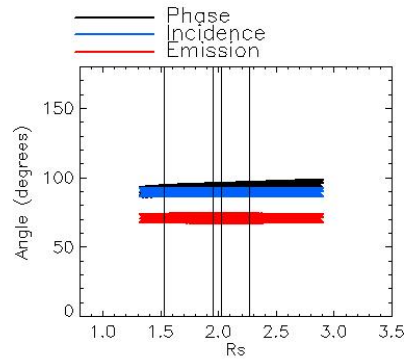
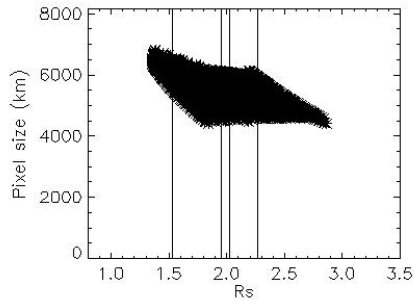
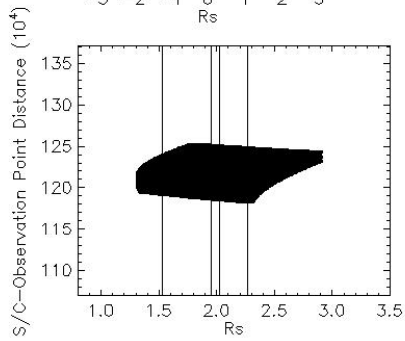


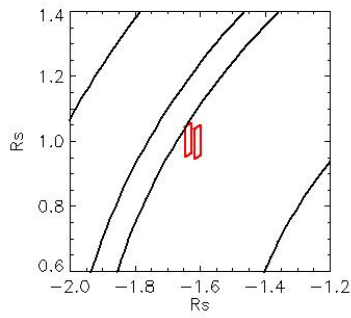
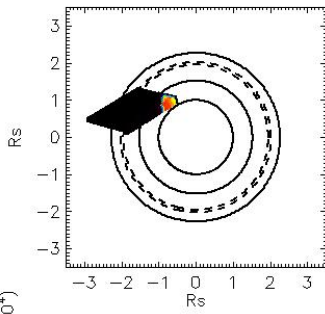
Observation Name:
UVS_116RLTMAPN20MP001_CIRS

Observation Date:
2009_225_10_23_33

Observation Duration:
3700 S

Integration time = 100 S



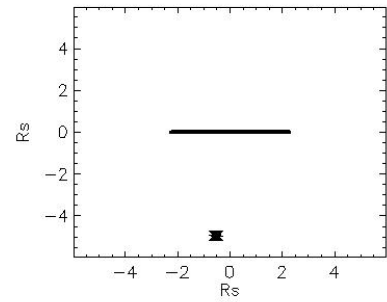
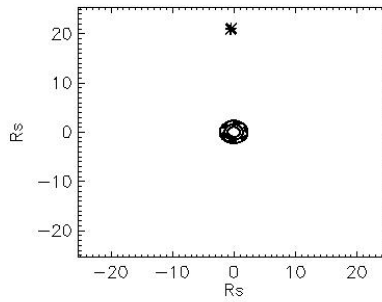
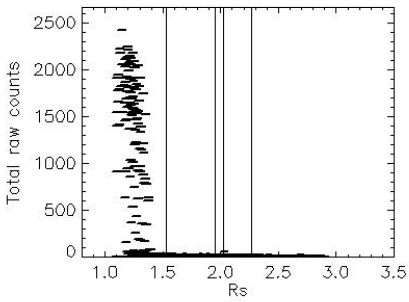
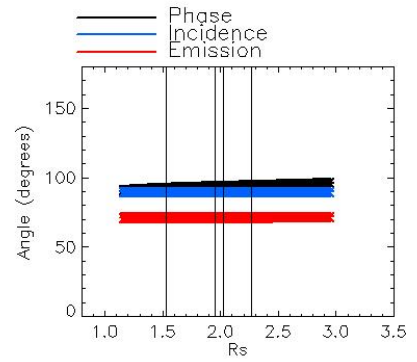
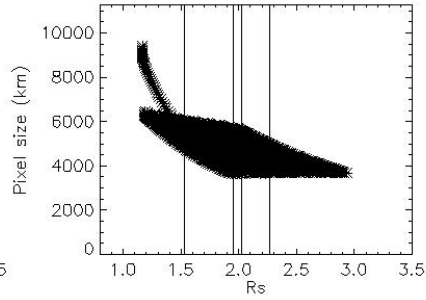
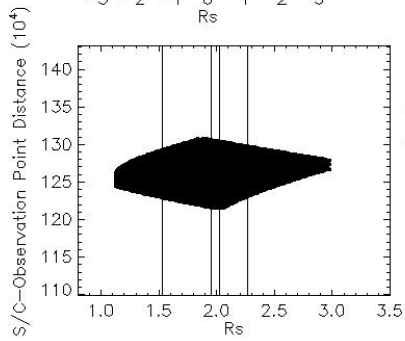


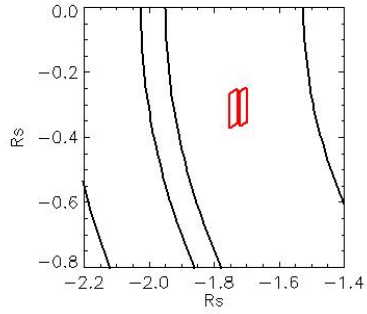
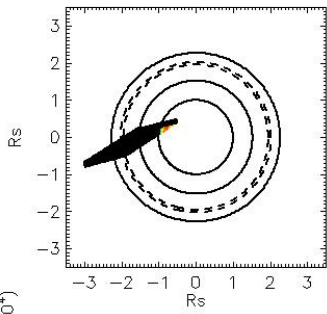
Observation Name:
UVIS_116RLTMAPN20MP001_CIRS

Observation Date:
2009_225_11_30_33

Observation Duration:
3700 S

Integration time = 100 S



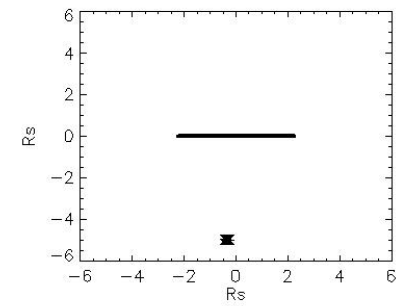
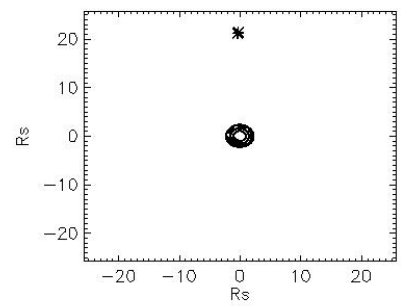
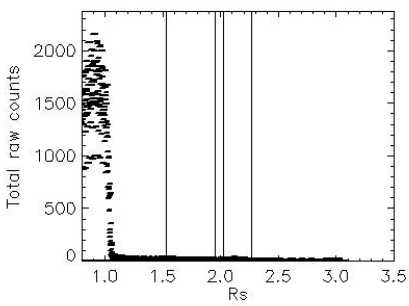
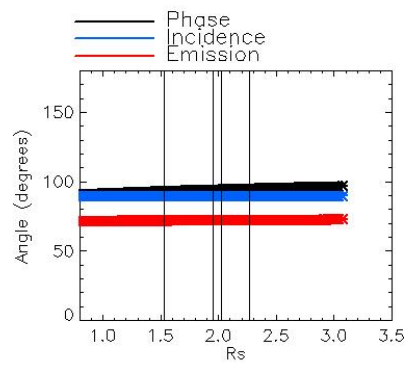
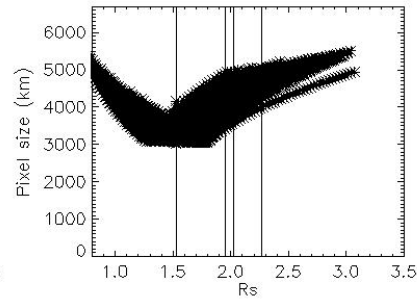
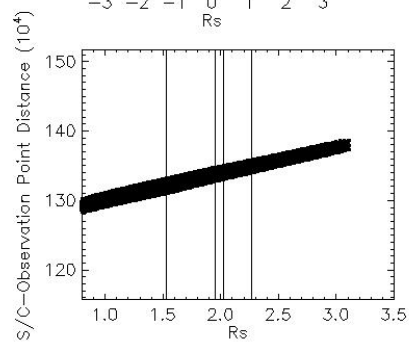


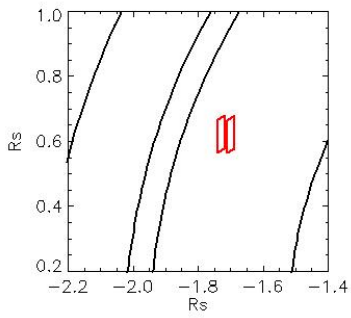
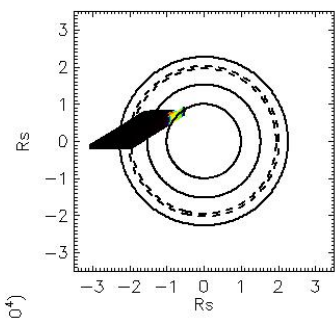
Observation Name:
UVIS_116RLTMAPN20MP001_CIRS

Observation Date:
2009_225_12_37_33

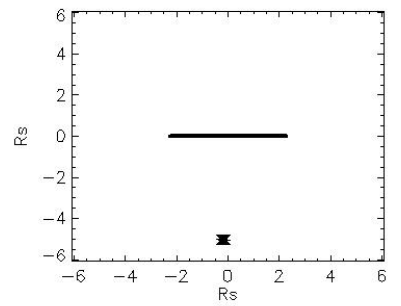
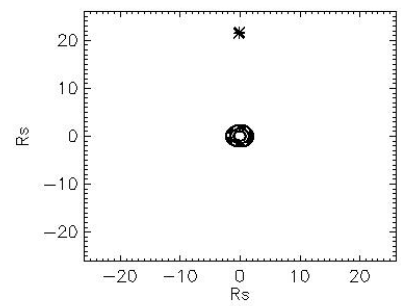
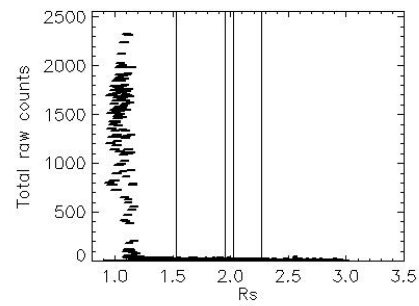
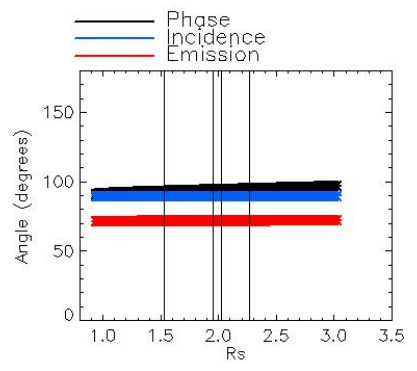
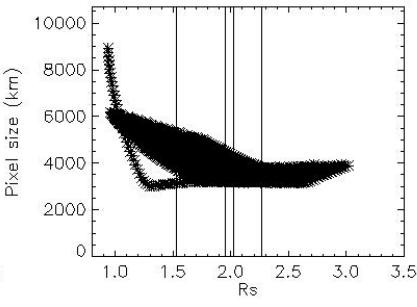
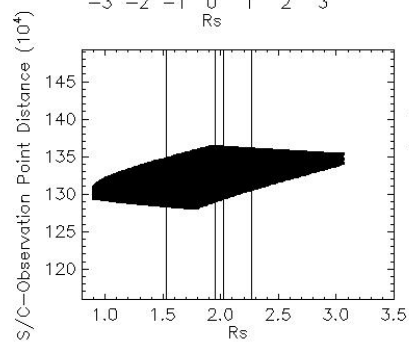
Observation Duration:
3700 S

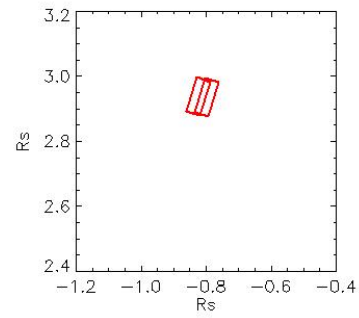
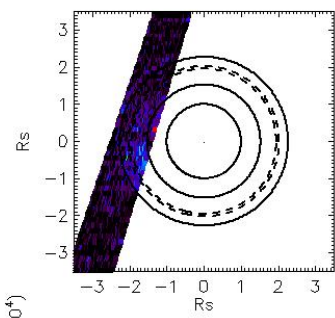
Integration time = 100 S





Observation Name:
 UVS_116RLMAPN20MP001_CIRS
 Observation Date:
 2009_225_13_44_33
 Observation Duration:
 3700 S
 Integration time = 100 S



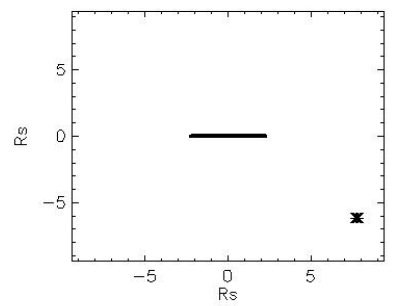
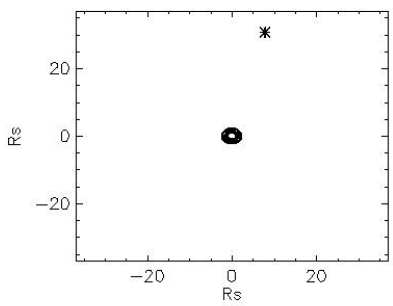
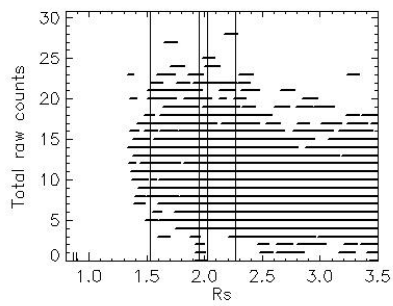
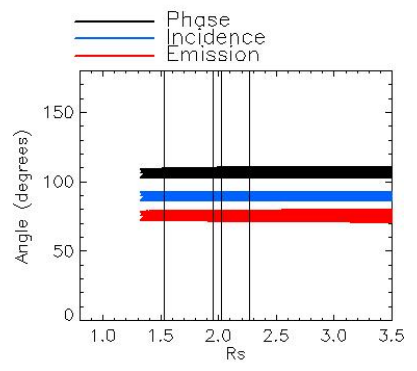
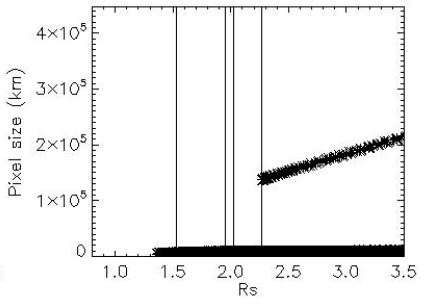
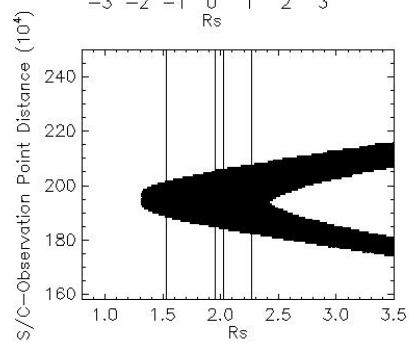


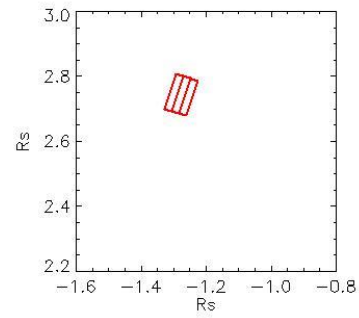
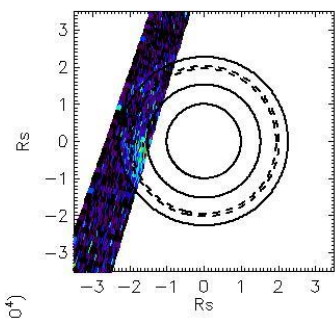
Observation Name:
UVS_116RLMAPN20MP002_CIRS

Observation Date:
2009_227_20_01_33

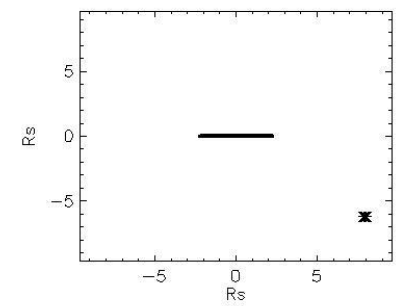
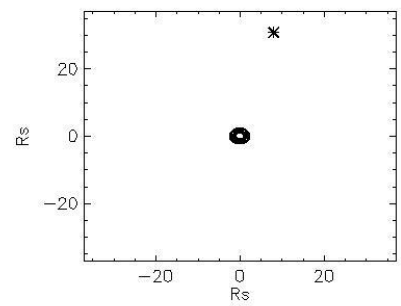
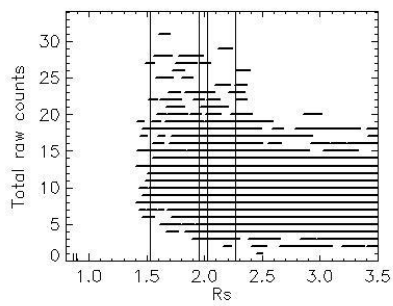
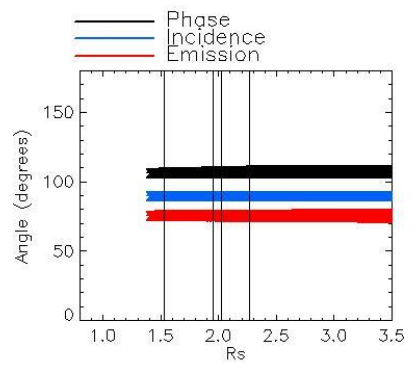
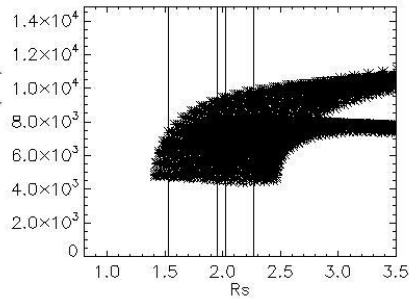
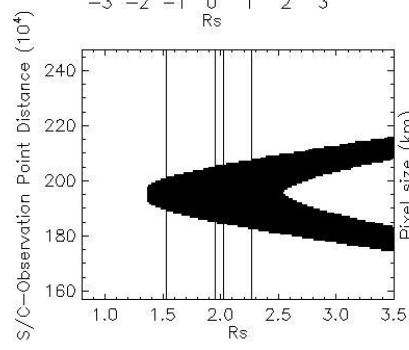
Observation Duration:
4000 S

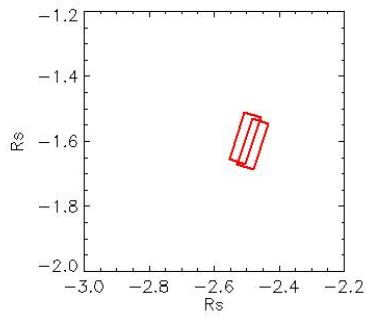
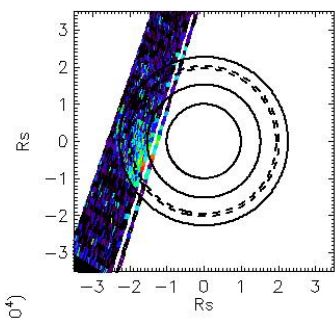
Integration time = 100 S





Observation Name:
 UVS_116RLMAPN20MP002_CIRS
 Observation Date:
 2009_227_21_14_33
 Observation Duration:
 4100 S
 Integration time = 100 S





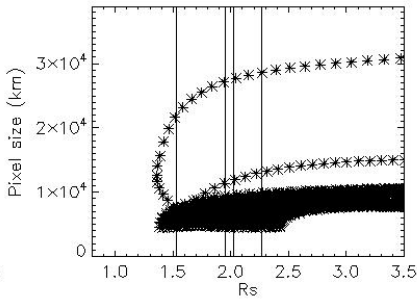
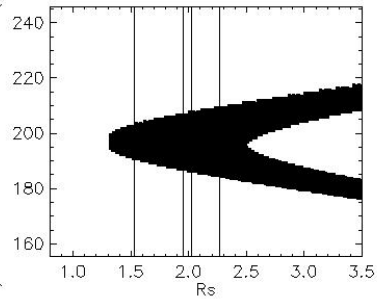
Observation Name:
UVS_116RLMAPN20MP002_CIRS

Observation Date:
2009_227_22_28_33

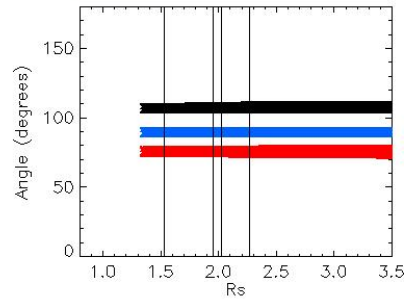
Observation Duration:
4200 S

Integration time = 100 S

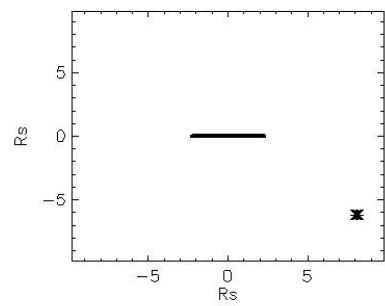
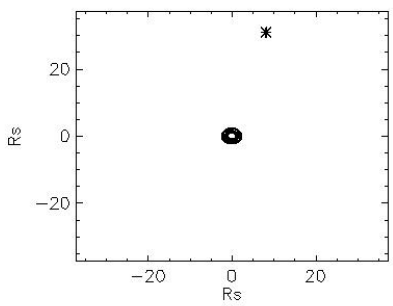
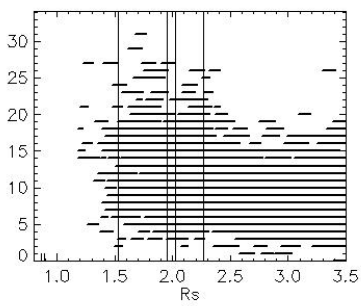
S/C—Observation Point Distance (10^4)

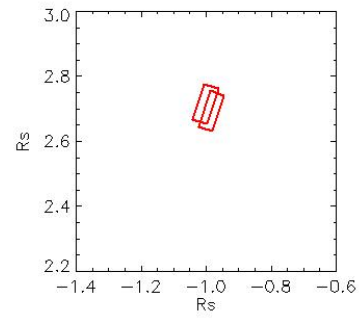
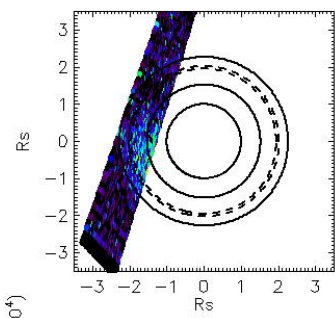


— Phase
— Incidence
— Emission



Total raw counts



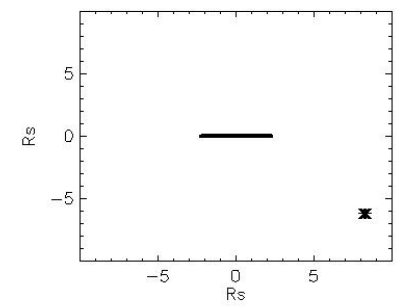
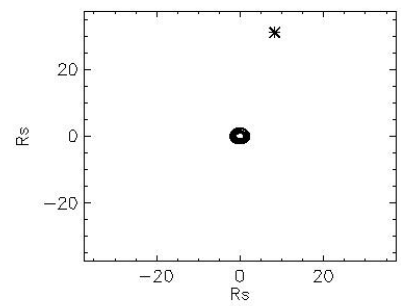
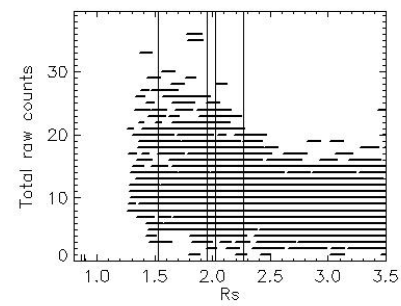
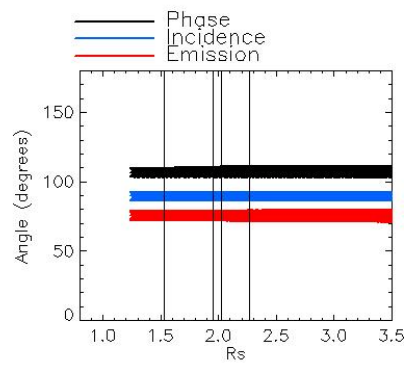
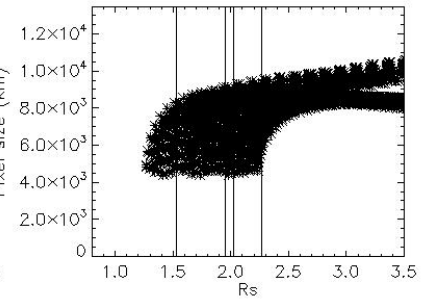
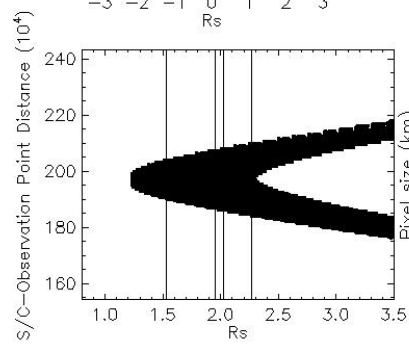


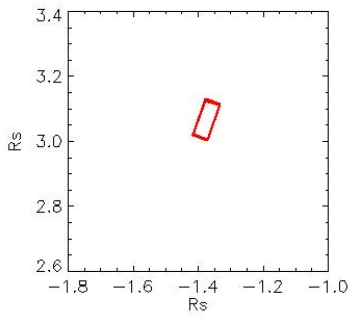
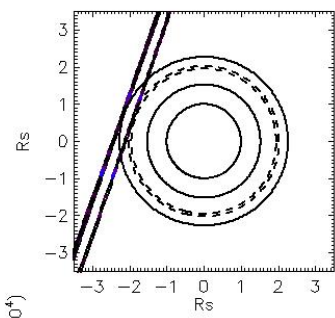
Observation Name:
UVS_116RLMAPN20MP002_CIRS

Observation Date:
2009_227_23_43_33

Observation Duration:
4000 S

Integration time = 100 S



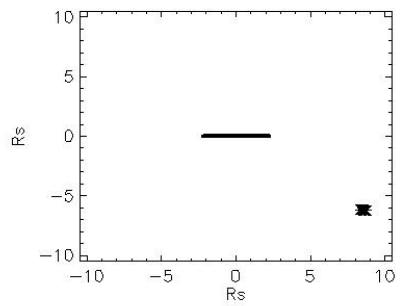
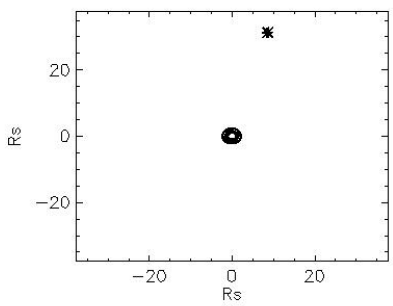
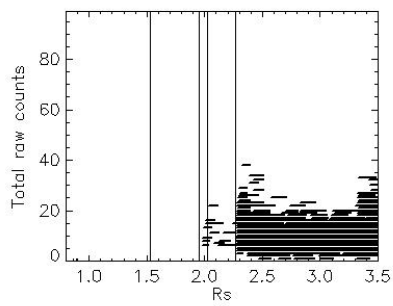
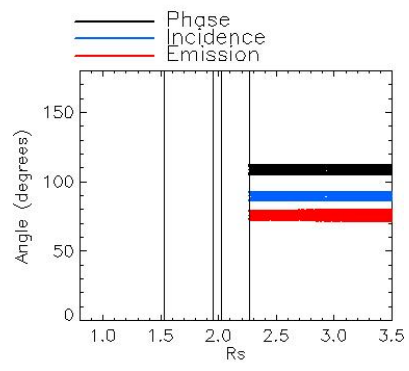
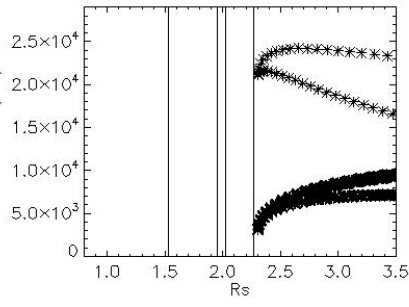
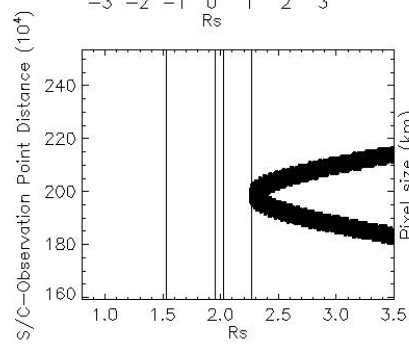


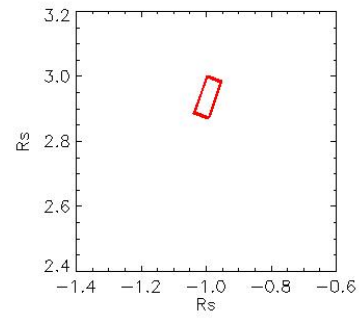
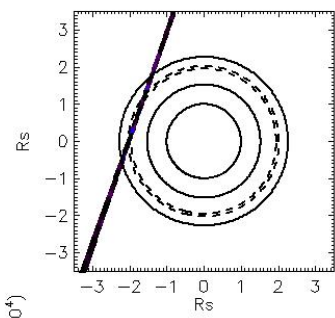
Observation Name:
UVS_116RLMAPN20MP002_CIRS

Observation Date:
2009_228_00_56_33

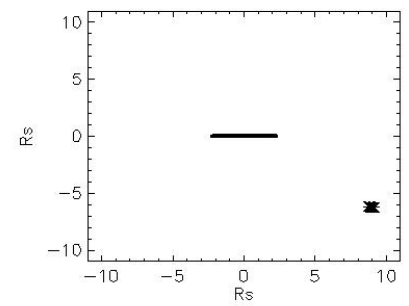
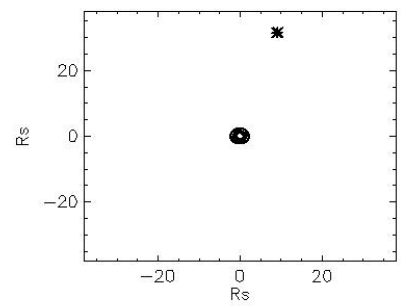
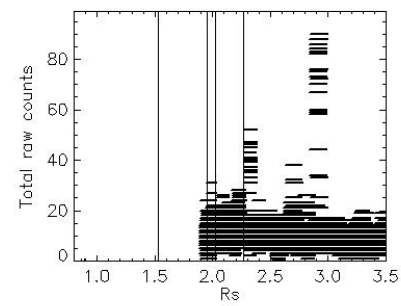
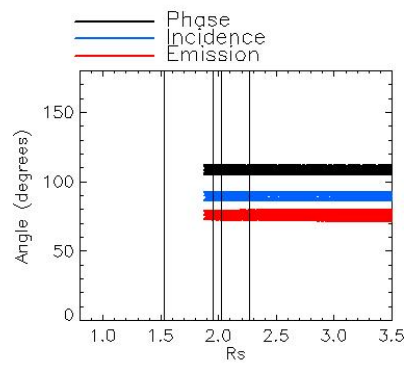
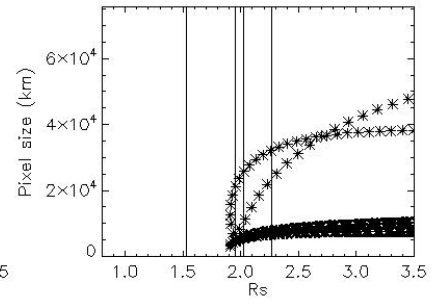
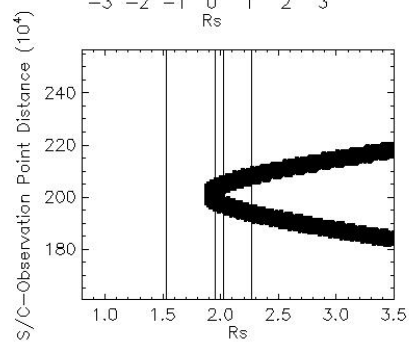
Observation Duration:
10800 S

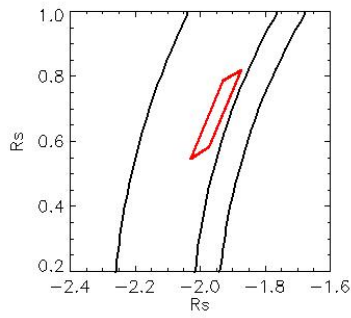
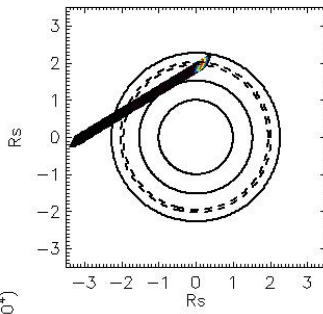
Integration time = 100 S





Observation Name:
 UVS_116RLMAPN20MP002_CIRS
 Observation Date:
 2009_228_04_01_33
 Observation Duration:
 10800 S
 Integration time = 100 S





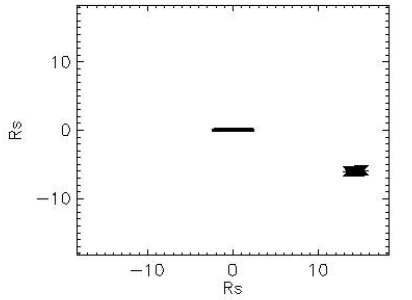
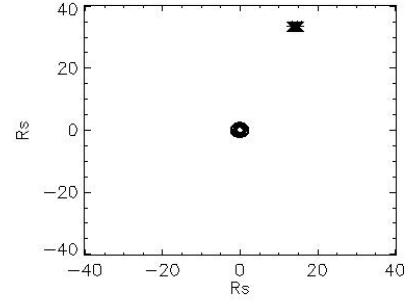
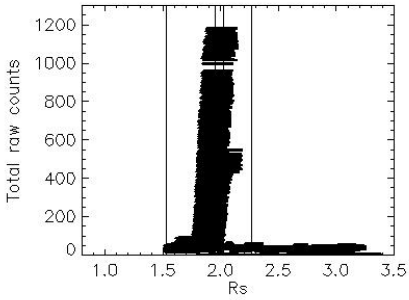
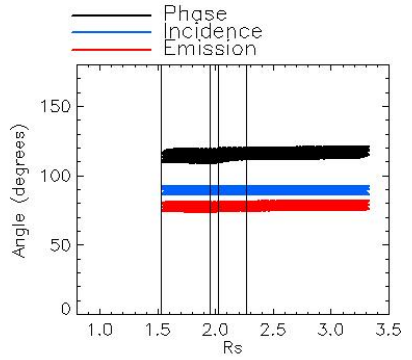
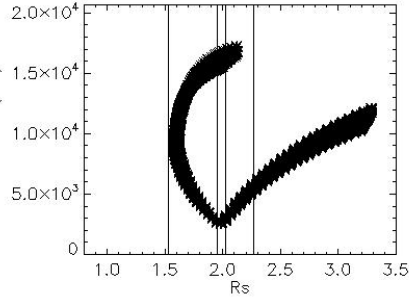
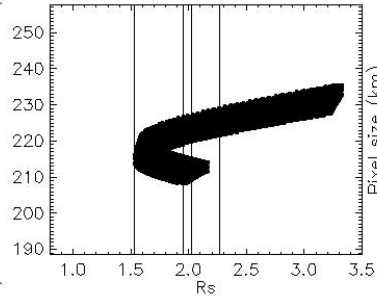
Observation Name:
UMS_116RLHPSPOKE001_VIMS

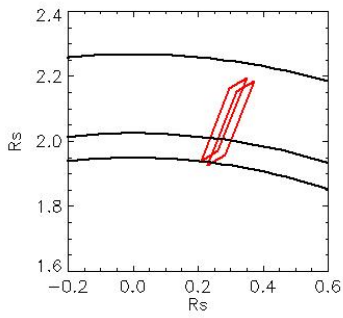
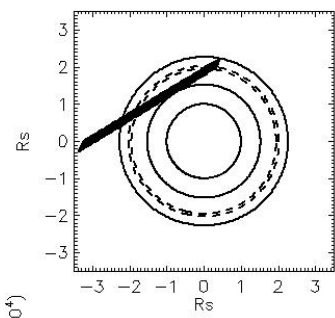
Observation Date:
2009_229_19_49_13

Observation Duration:
65400 S

Integration time = 300 S

S/C—Observation Point Distance (10^4)



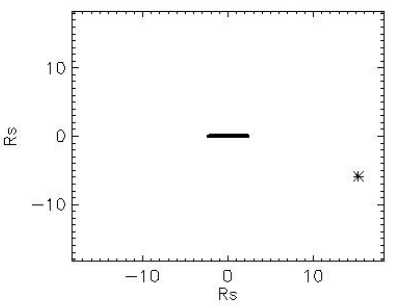
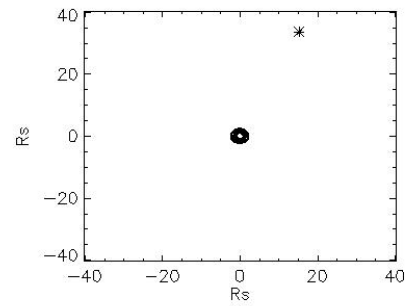
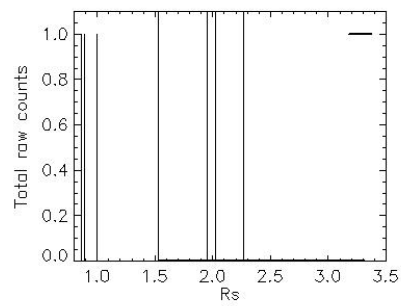
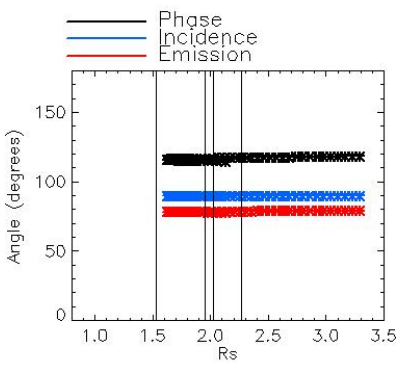
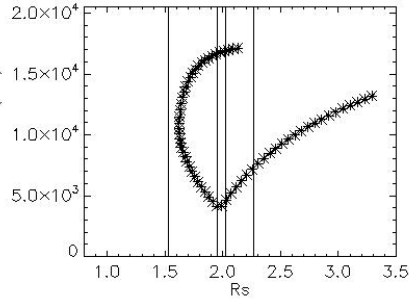
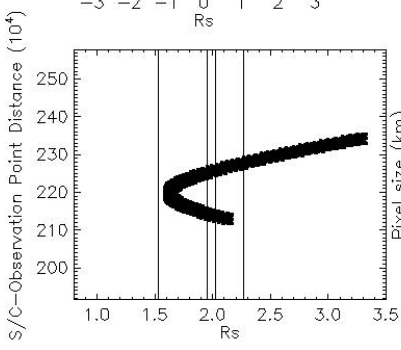


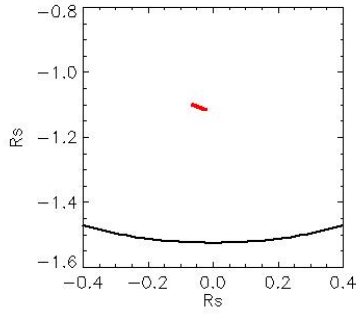
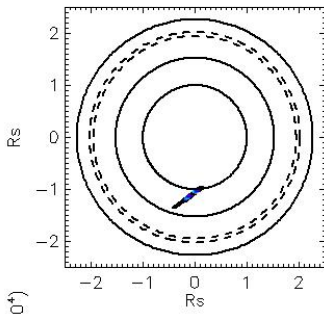
Observation Name:
UMS_116RLHPSP0KE001_VIMS

Observation Date:
2009_230_13_59_12

Observation Duration:
300 S

Integration time = 300 S



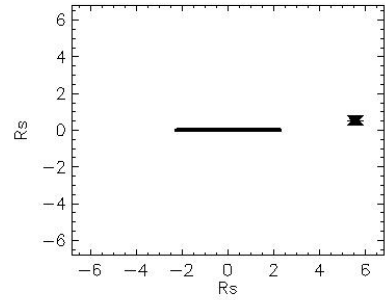
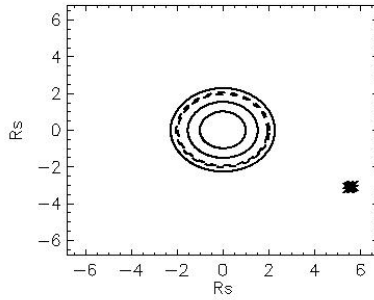
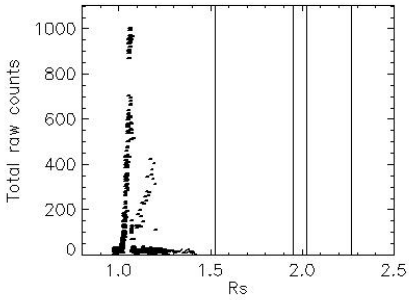
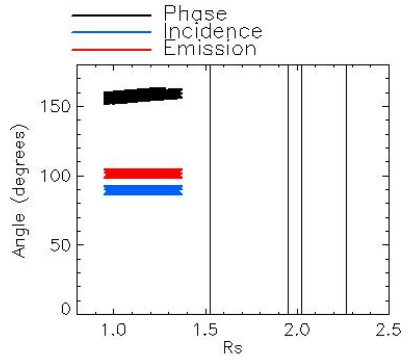
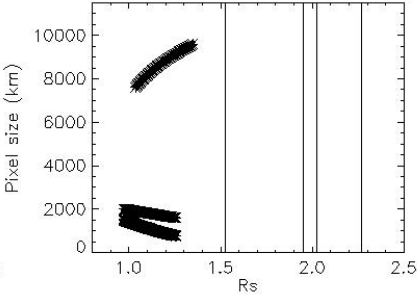
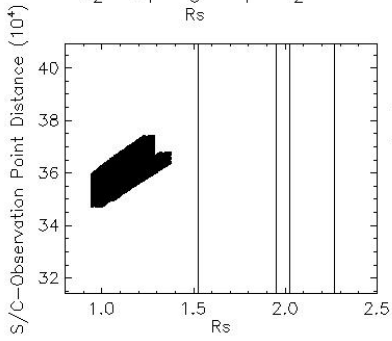


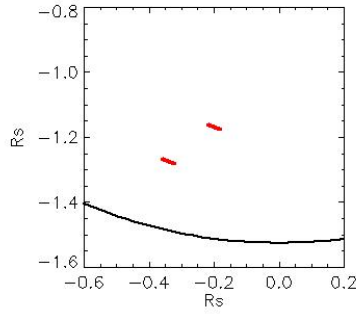
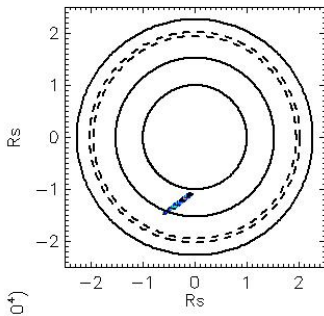
Observation Name:
UMS_117RLHIPHASE001_VIMS

Observation Date:
2009_239_02_53_14

Observation Duration:
1400 S

Integration time = 100 S



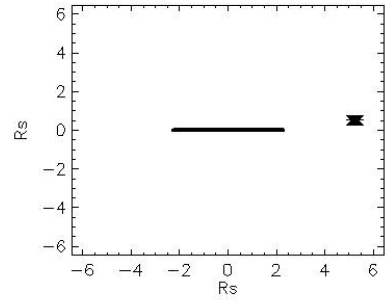
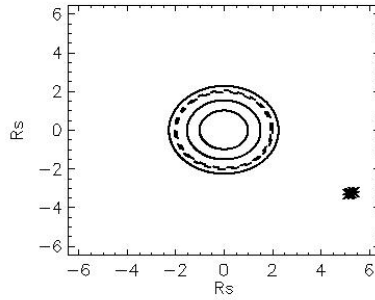
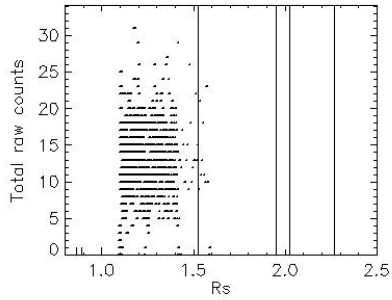
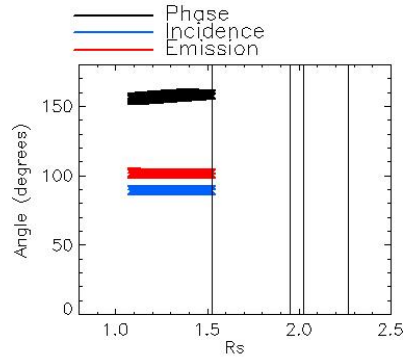
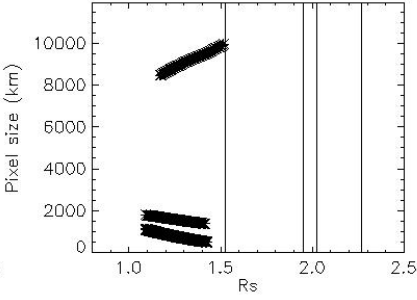
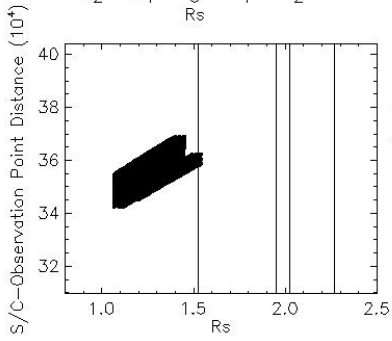


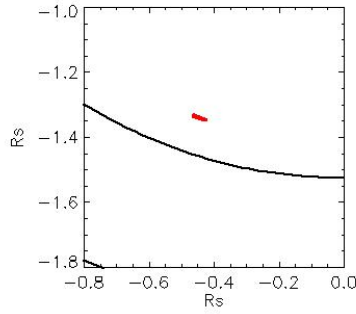
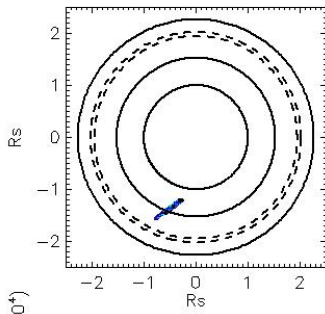
Observation Name:
UMS_117RLHIPHASE001_VIMS

Observation Date:
2009_239_03_18_13

Observation Duration:
1400 S

Integration time = 100 S



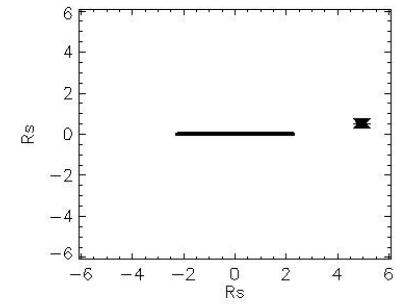
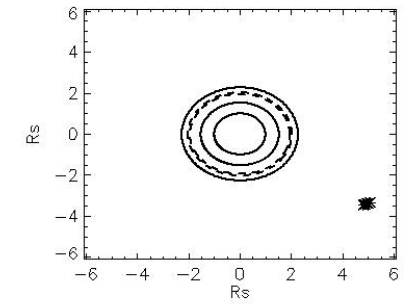
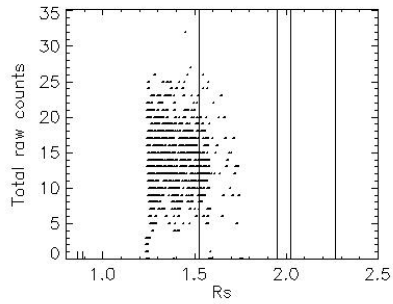
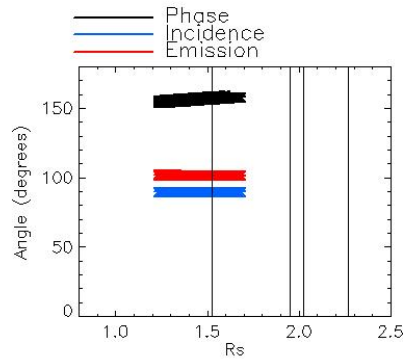
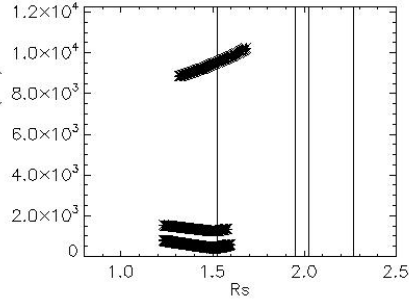
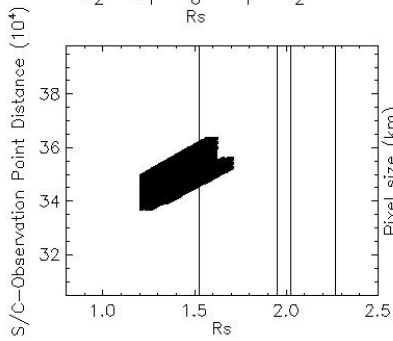


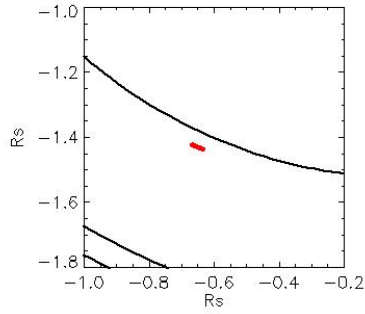
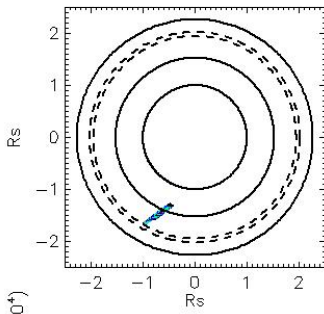
Observation Name:
UMS_117RLHIPHASE001_VIMS

Observation Date:
2009_239_03_43_12

Observation Duration:
1400 S

Integration time = 100 S



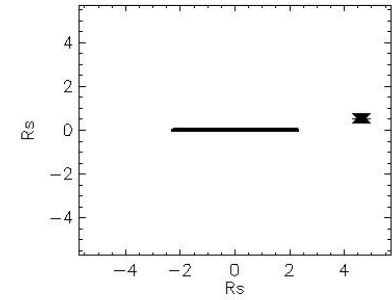
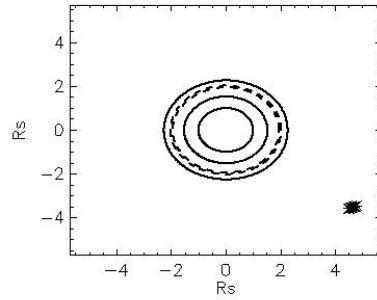
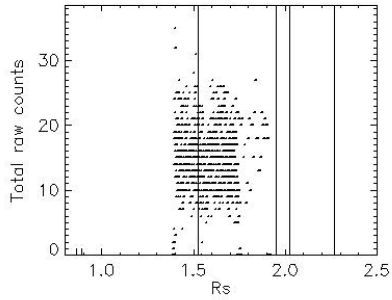
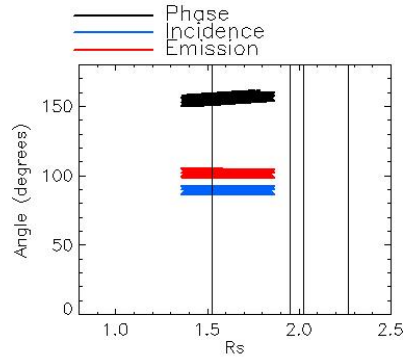
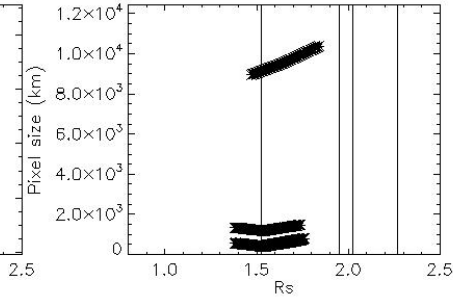
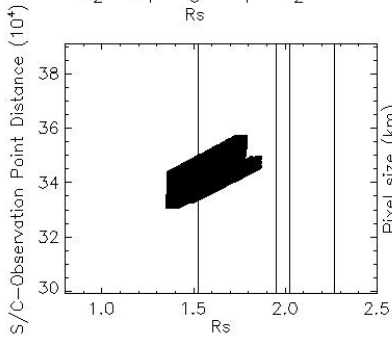


Observation Name:
UMS_117RLHIPHASE001_VIMS

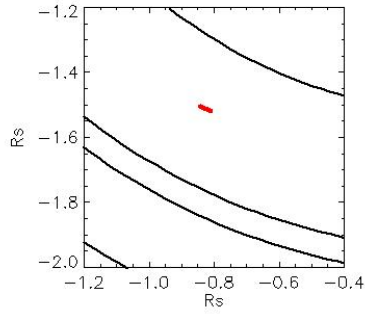
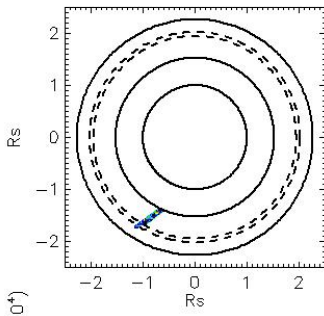
Observation Date:
2009_239_04_08_11

Observation Duration:
1400 S

Integration time = 100 S



— Phase
— Incidence
— Emission

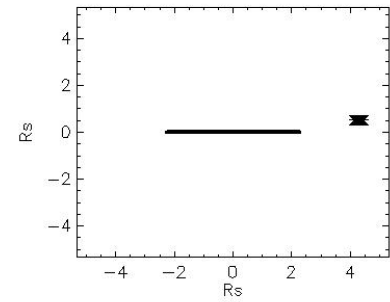
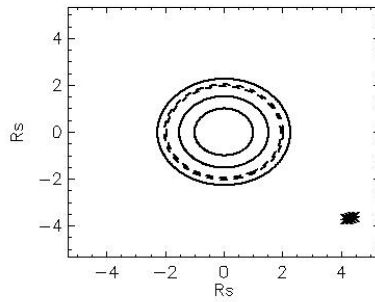
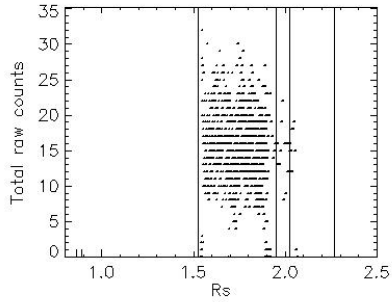
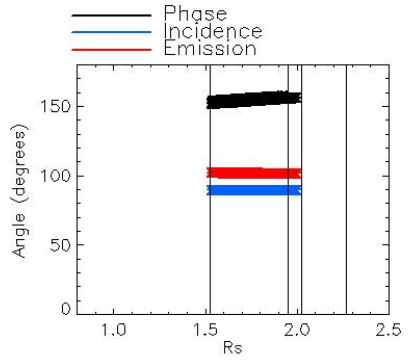
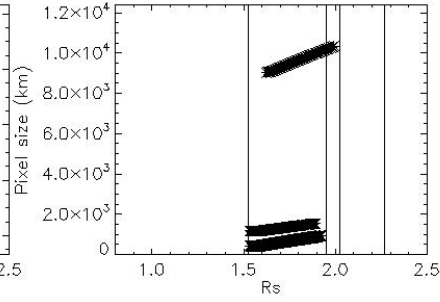
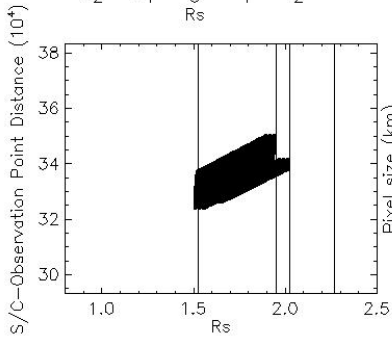


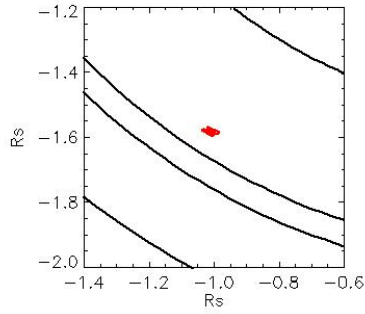
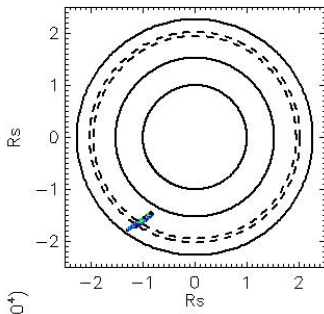
Observation Name:
UMS_117RLHIPHASE001_VIMS

Observation Date:
2009_239_04_33_10

Observation Duration:
1400 S

Integration time = 100 S



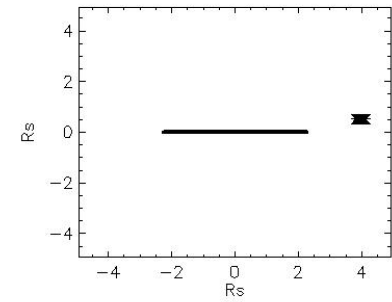
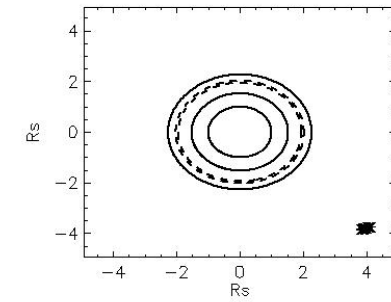
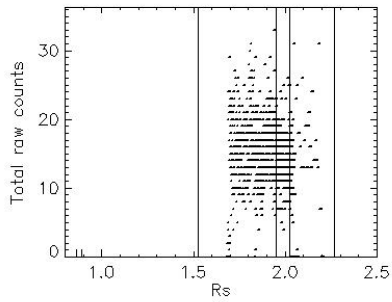
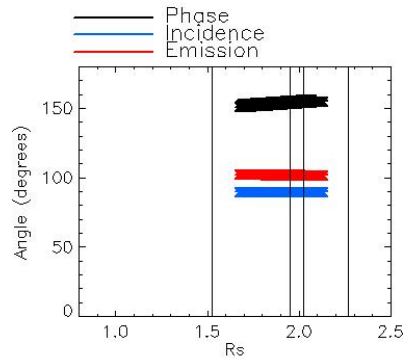
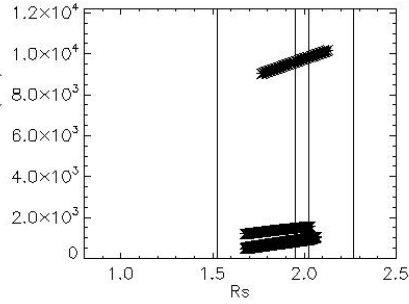
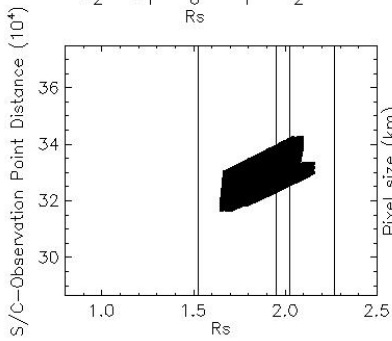


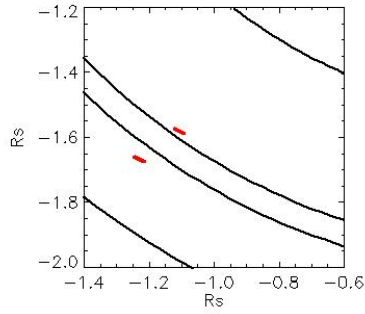
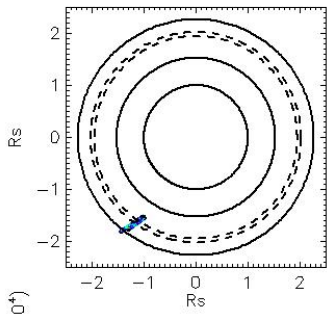
Observation Name:
UMS_117RLHIPHASE001_VIMS

Observation Date:
2009_239_04_58_09

Observation Duration:
1400 S

Integration time = 100 S



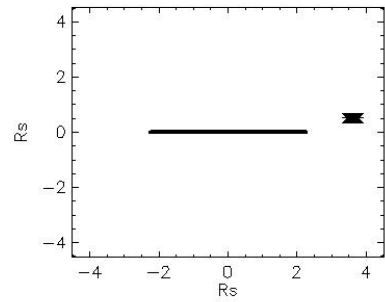
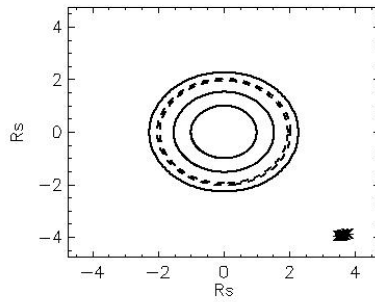
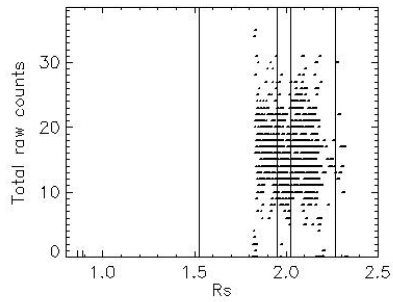
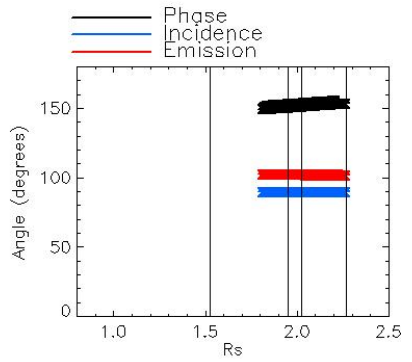
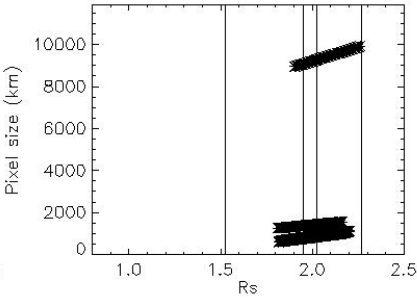
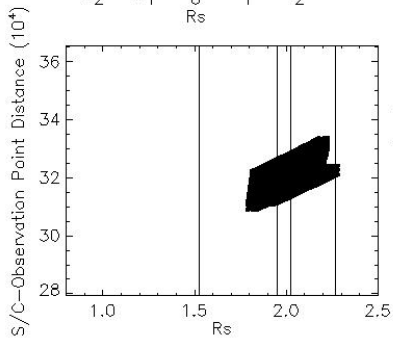


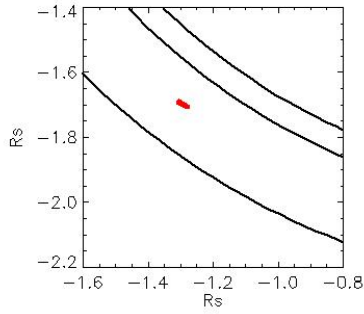
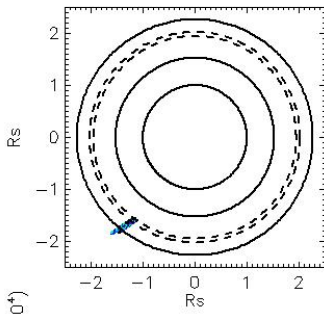
Observation Name:
UMS_117RLHIPHASE001_VIMS

Observation Date:
2009_239_05_23_08

Observation Duration:
1400 S

Integration time = 100 S



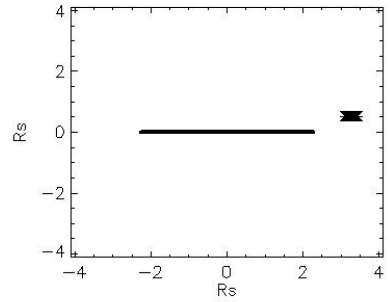
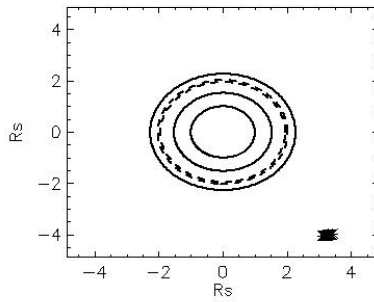
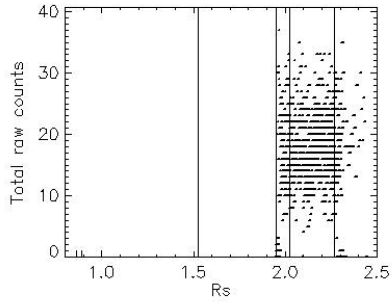
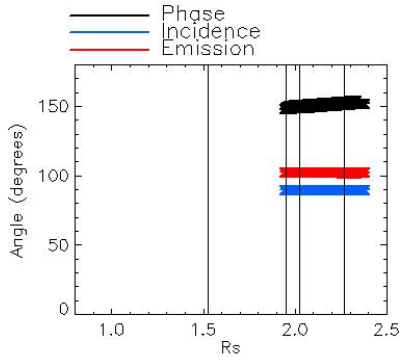
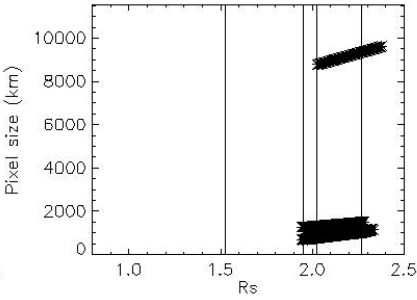
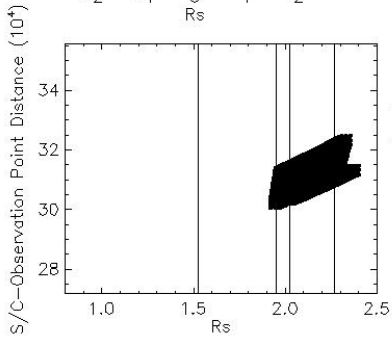


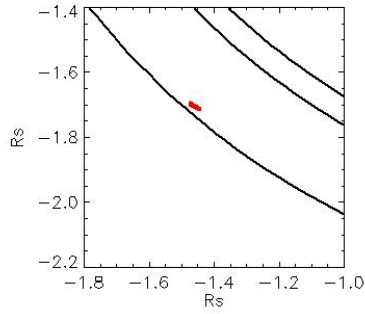
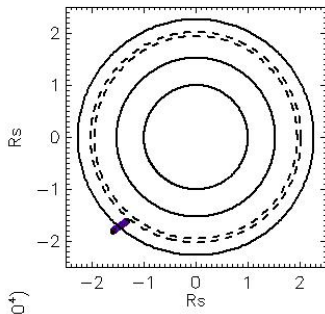
Observation Name:
UMS_117RLHIPHASE001_VIMS

Observation Date:
2009_239_05_48_07

Observation Duration:
1400 S

Integration time = 100 S



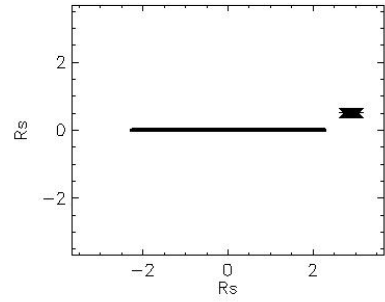
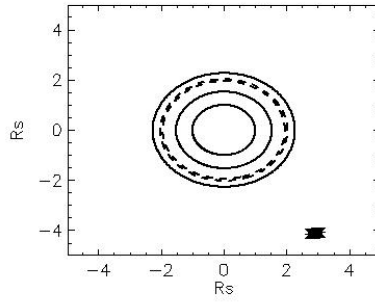
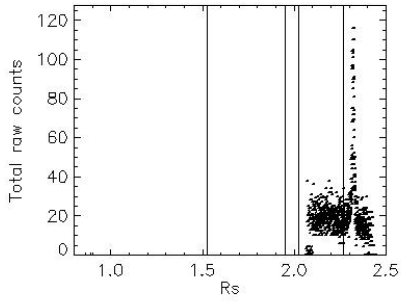
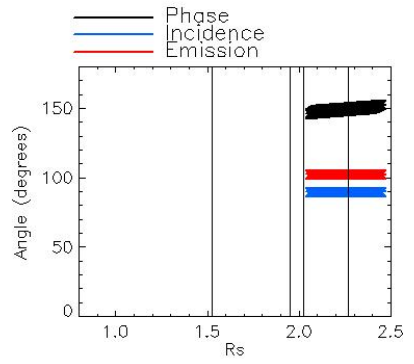
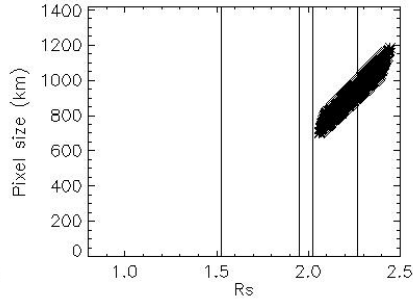
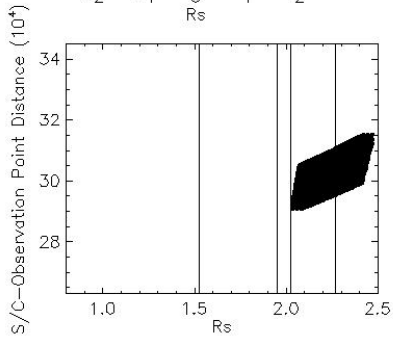


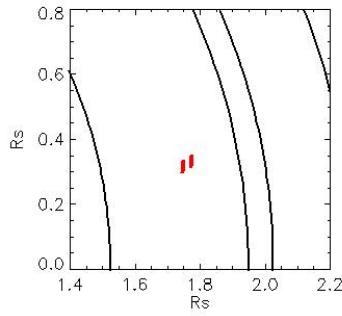
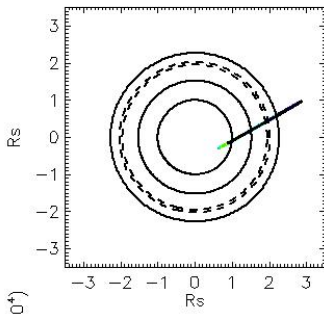
Observation Name:
UMS_117RLHIPHASE001_VIMS

Observation Date:
2009_239_06_13_06

Observation Duration:
1400 S

Integration time = 100 S



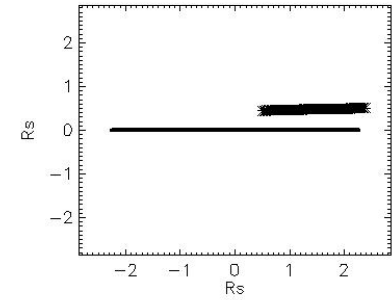
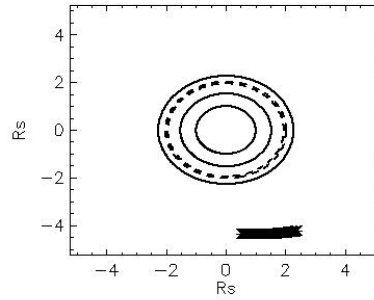
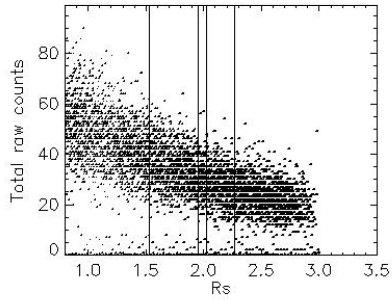
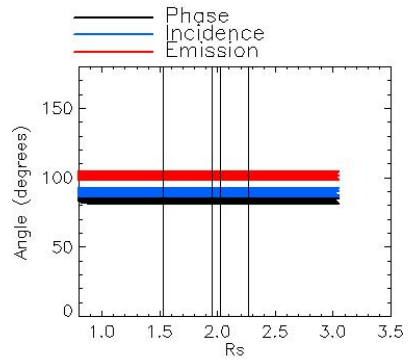
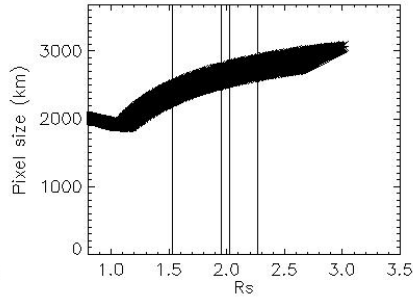
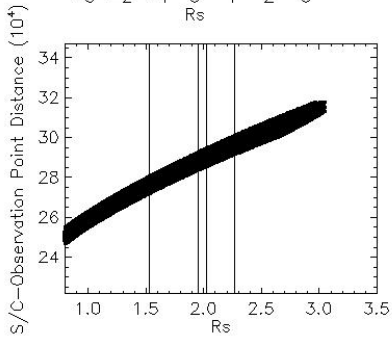


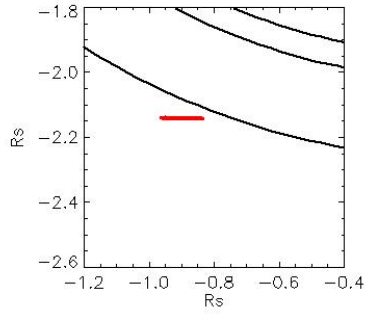
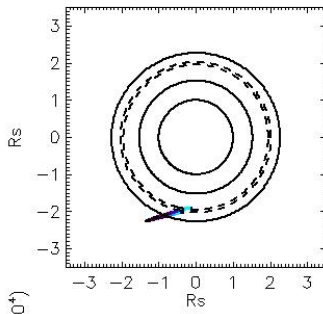
Observation Name:
UMS_117RLALP0R10CC001_VIMS

Observation Date:
2009_239_06_58_33

Observation Duration:
7200 S

Integration time = 100 S



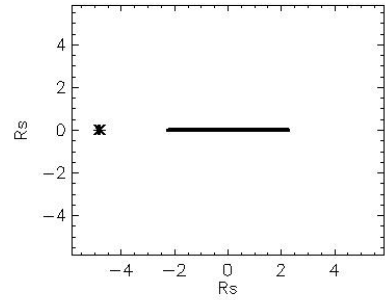
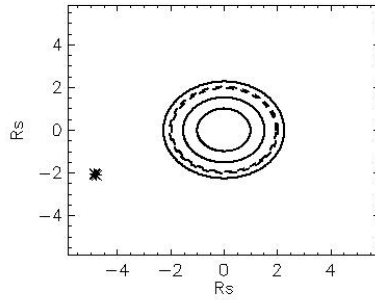
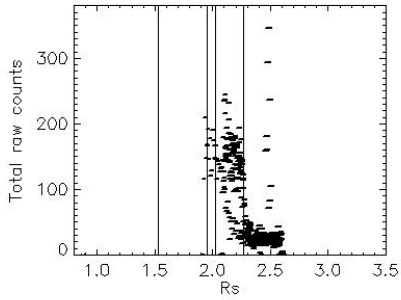
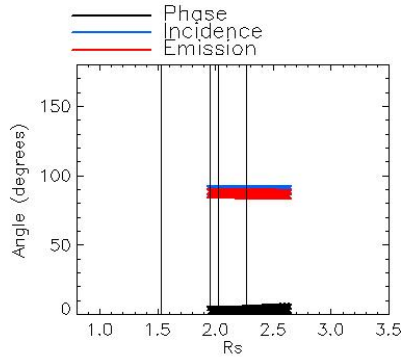
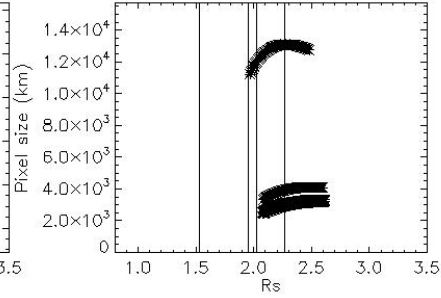
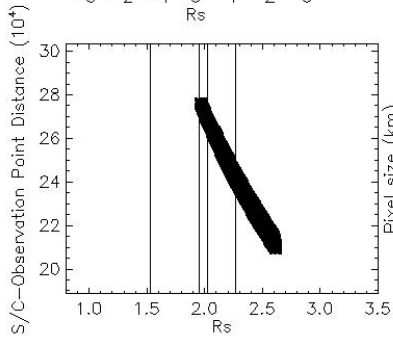


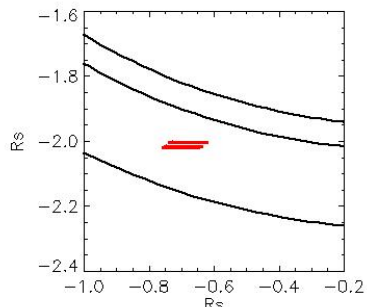
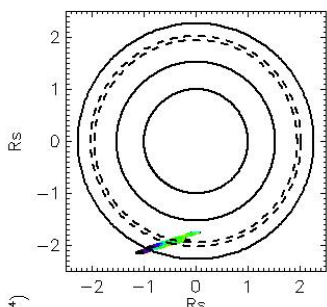
Observation Name:
UVS_117RLLLOWPHASE001_VIMS

Observation Date:
2009_239_15_11_04

Observation Duration:
600 S

Integration time = 100 S



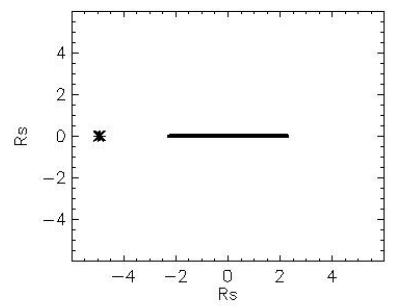
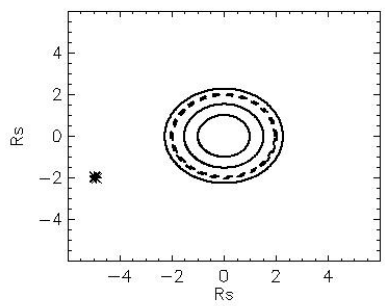
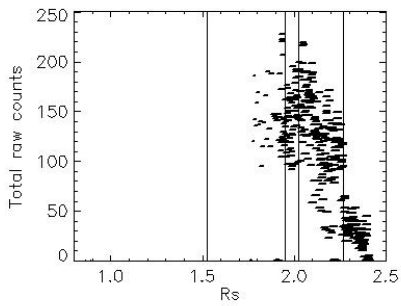
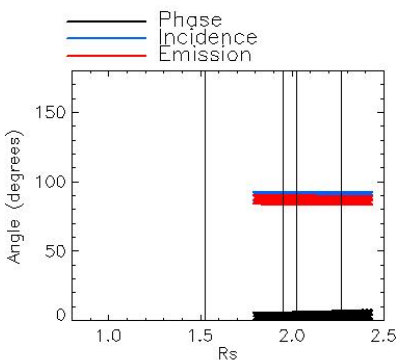
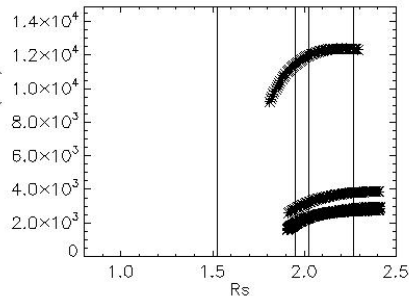
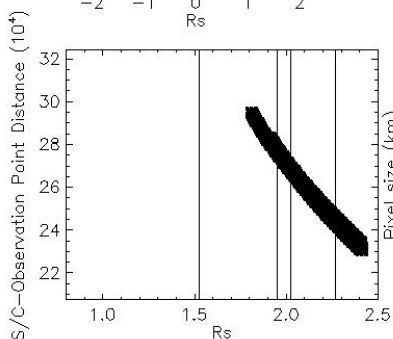


Observation Name:
UVIS_117RLLLOWPHASE001_VIMS

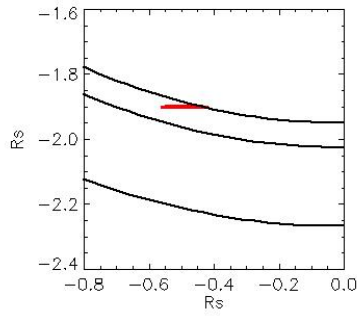
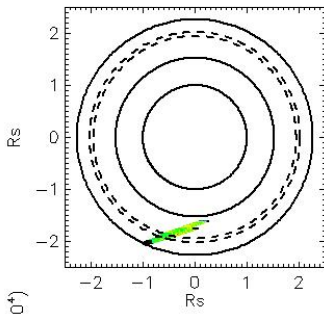
Observation Date:
2009_239_15_22_33

Observation Duration:
600 S

Integration time = 100 S



— Phase
— Incidence
— Emission

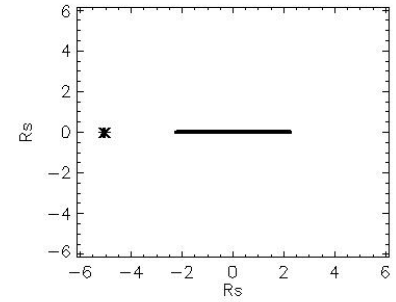
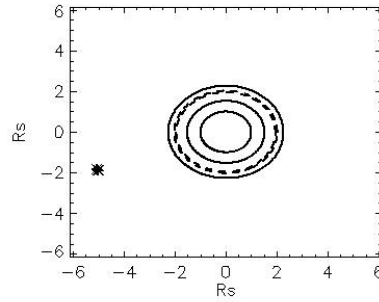
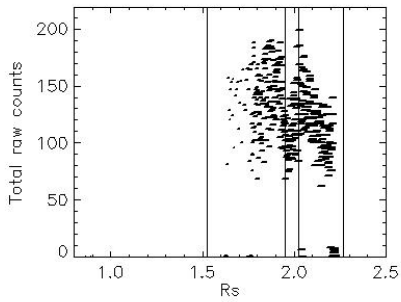
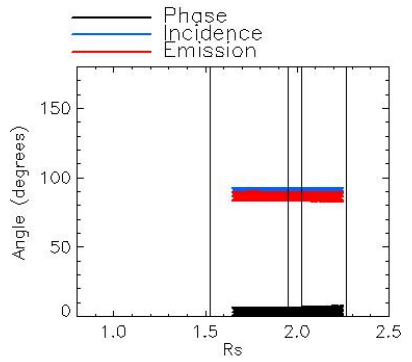
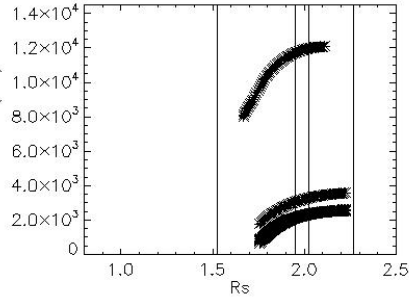
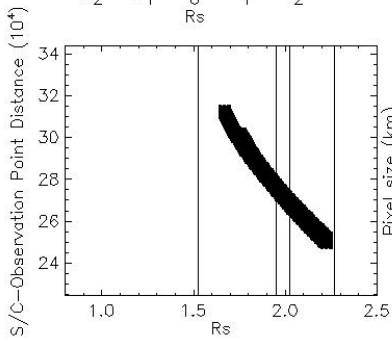


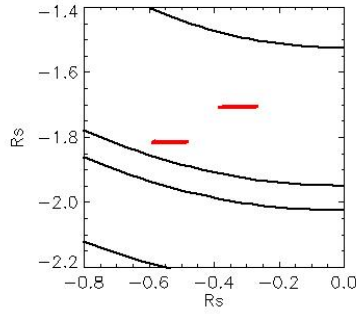
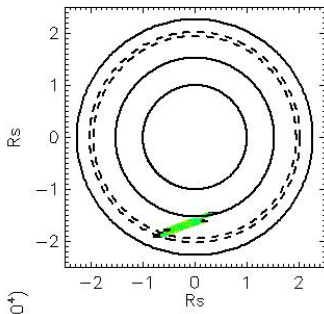
Observation Name:
UMS_117RLLLOWPHASE001_VIMS

Observation Date:
2009_239_15_34_02

Observation Duration:
600 S

Integration time = 100 S



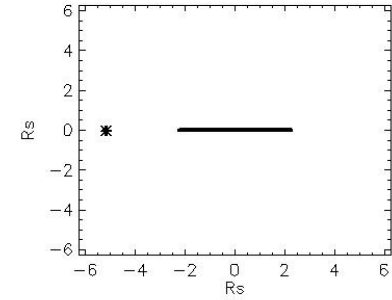
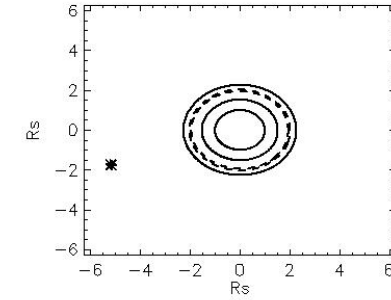
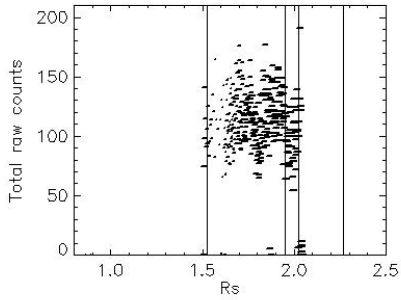
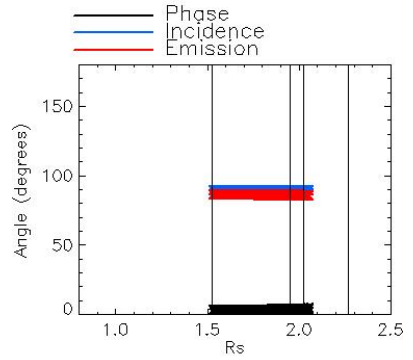
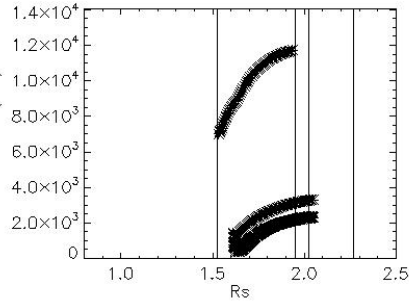
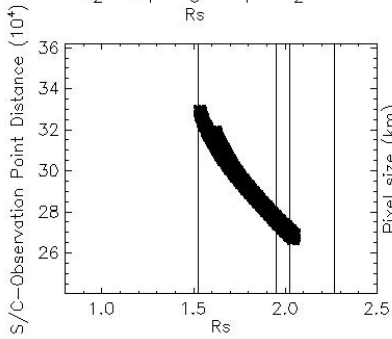


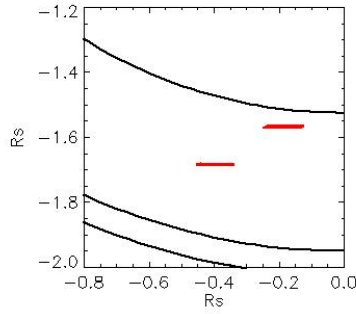
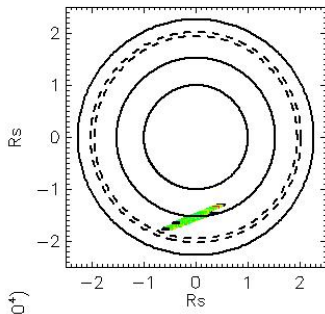
Observation Name:
UMS_117RLLLOWPHASE001_VIMS

Observation Date:
2009_239_15_45_31

Observation Duration:
600 S

Integration time = 100 S



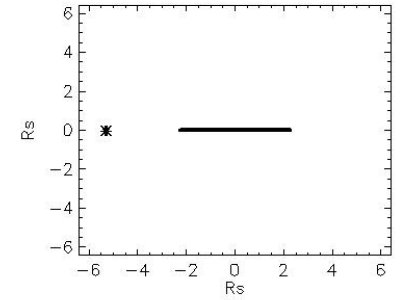
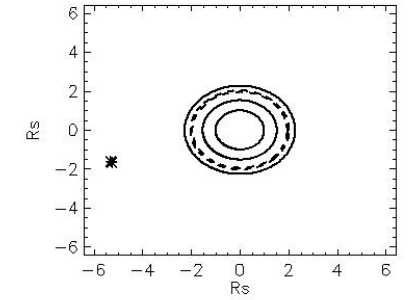
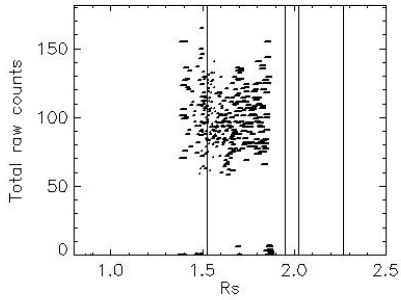
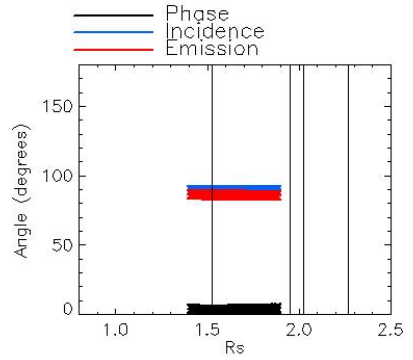
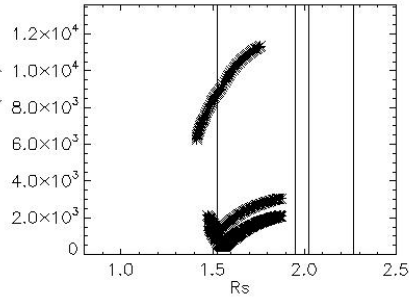
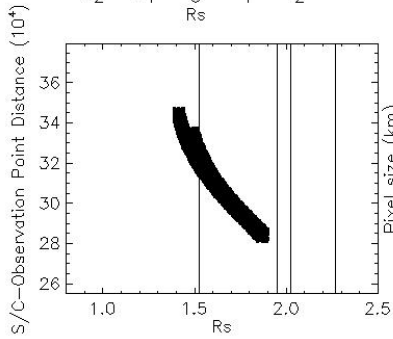


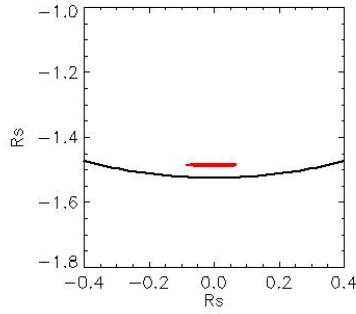
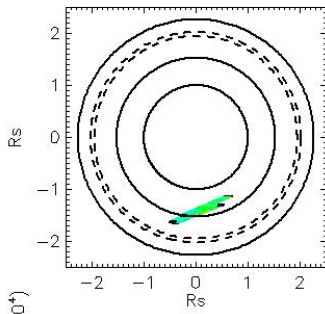
Observation Name:
UVS_117RLLLOWPHASE001_VIMS

Observation Date:
2009_239_15_57_00

Observation Duration:
600 S

Integration time = 100 S



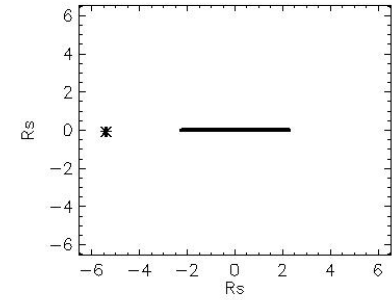
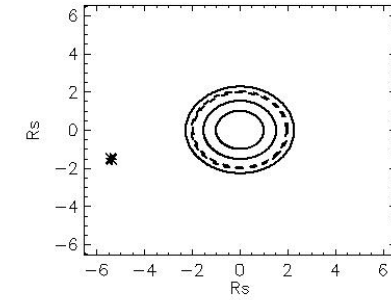
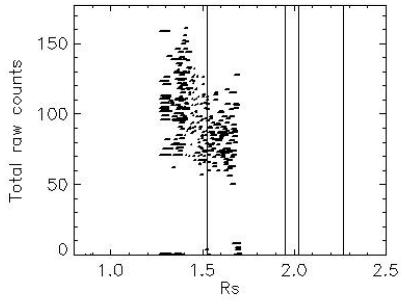
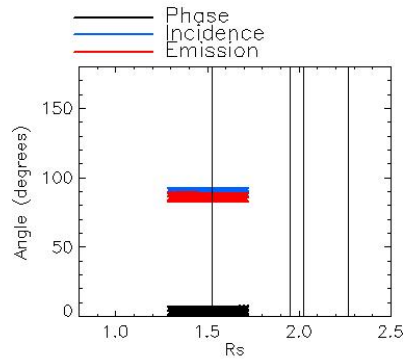
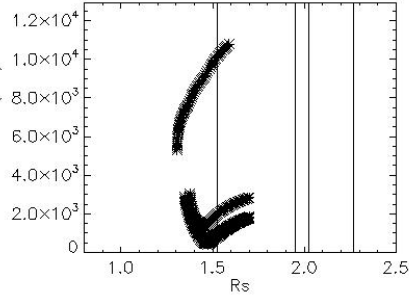
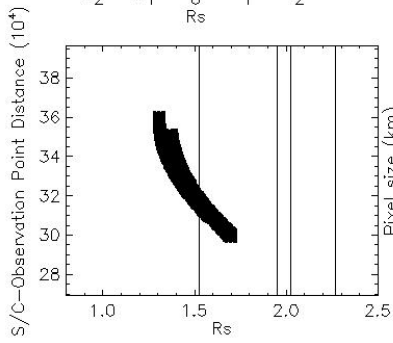


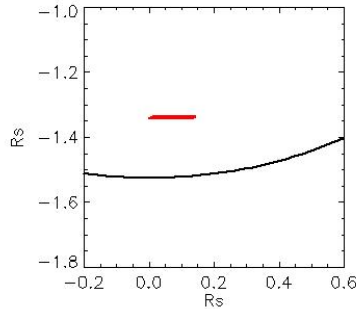
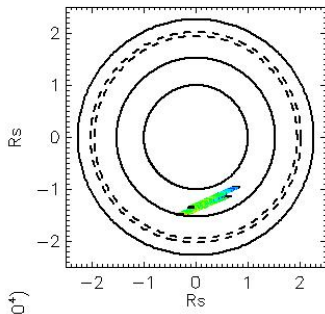
Observation Name:
UMS_117RLLLOWPHASE001_VIMS

Observation Date:
2009_239_16_08_29

Observation Duration:
600 S

Integration time = 100 S



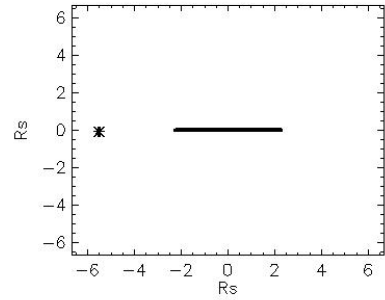
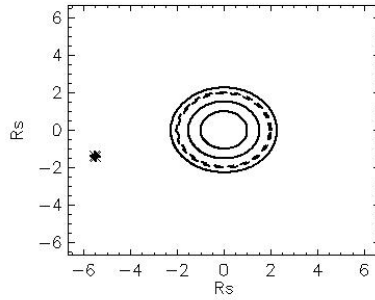
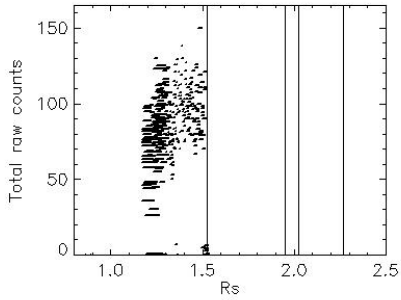
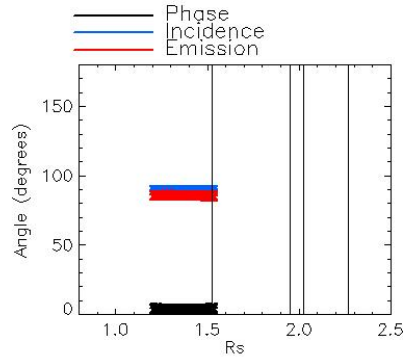
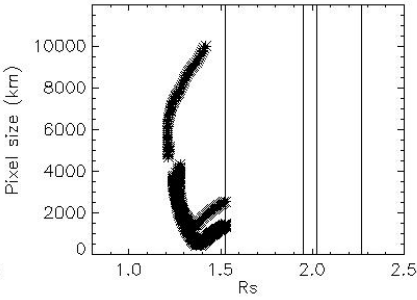
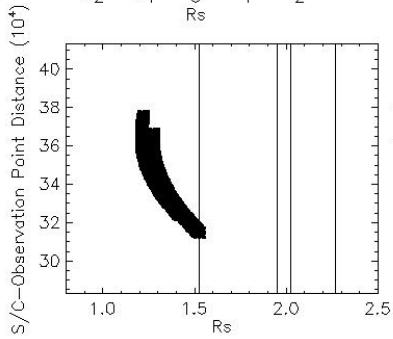


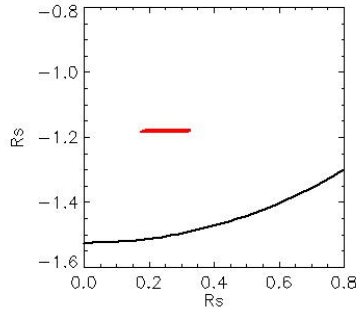
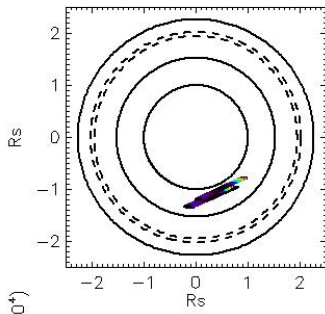
Observation Name:
UVIS_117RLLLOWPHASE001_VIMS

Observation Date:
2009_239_16_19_58

Observation Duration:
600 S

Integration time = 100 S



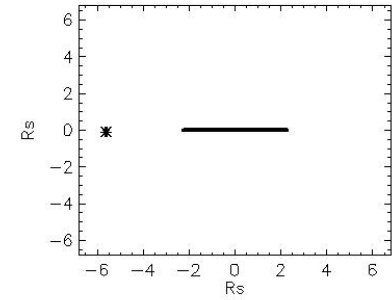
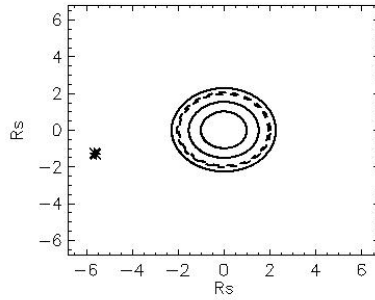
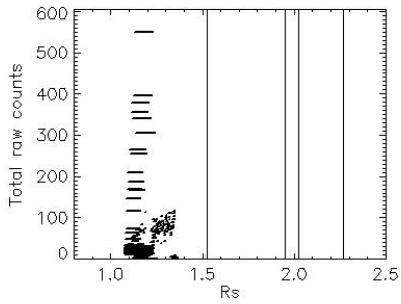
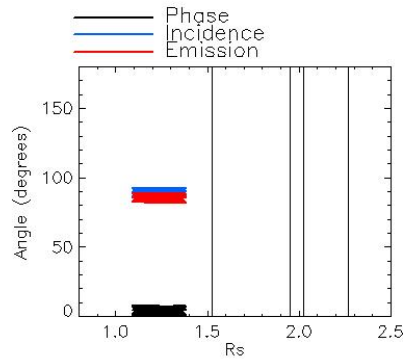
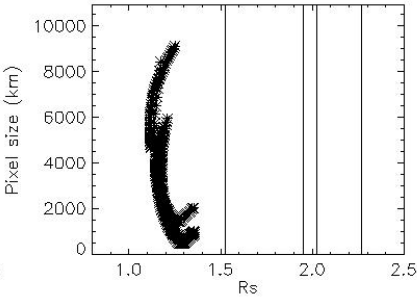
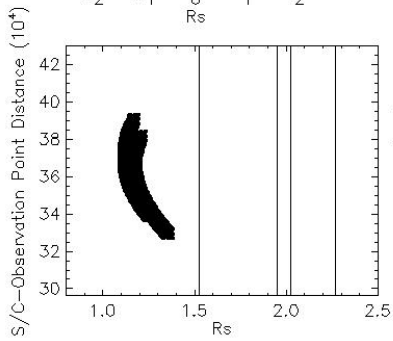


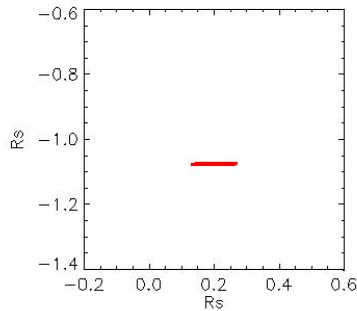
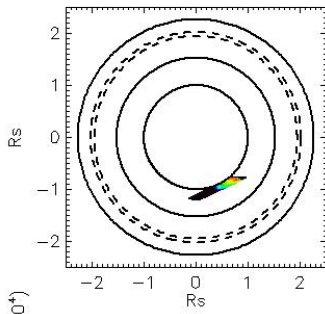
Observation Name:
UVS_117RLLLOWPHASE001_VIMS

Observation Date:
2009_239_16_31_27

Observation Duration:
600 S

Integration time = 100 S



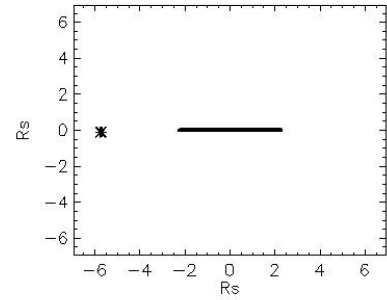
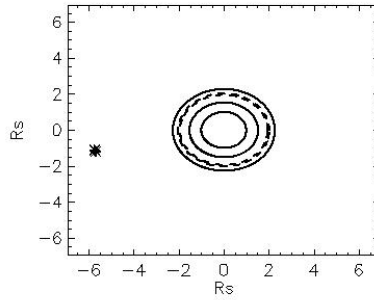
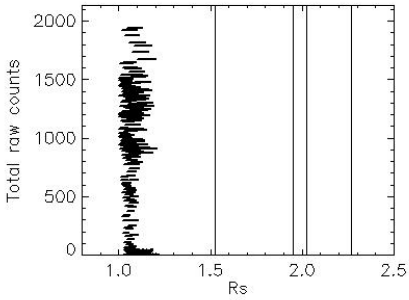
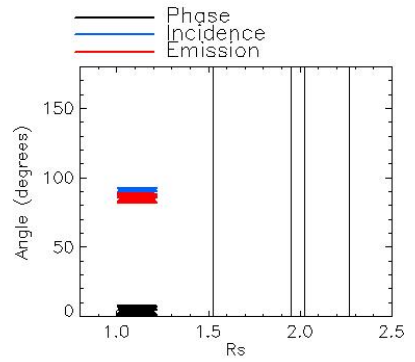
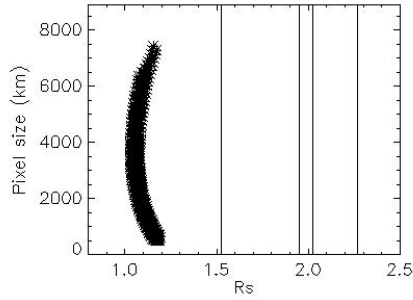
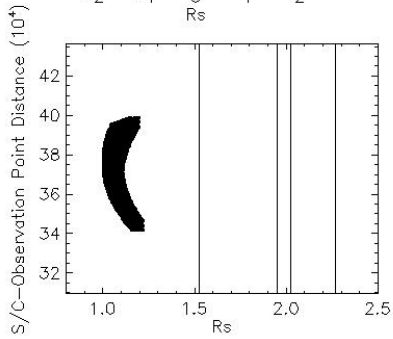


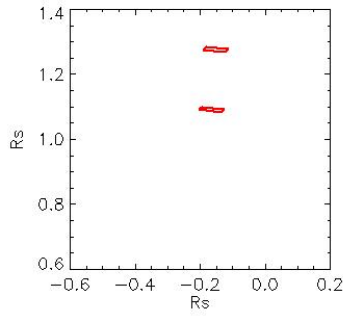
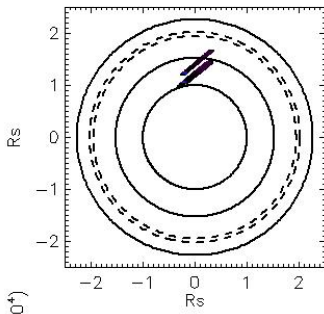
Observation Name:
UVS_117RLLLOWPHASE001_VIMS

Observation Date:
2009_239_16_42_56

Observation Duration:
700 S

Integration time = 100 S



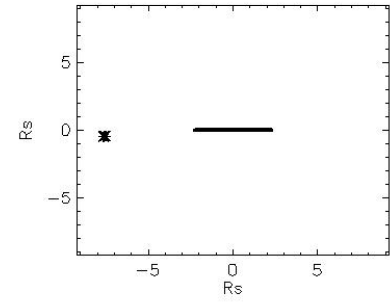
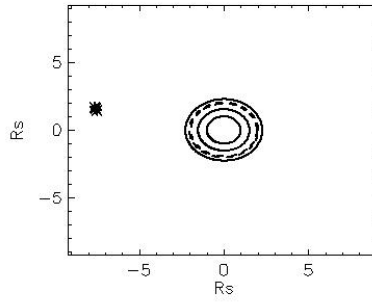
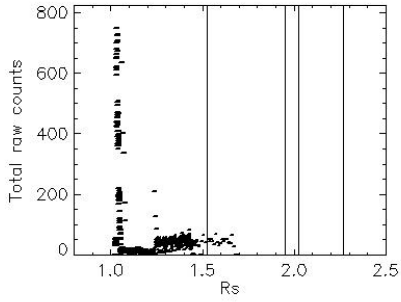
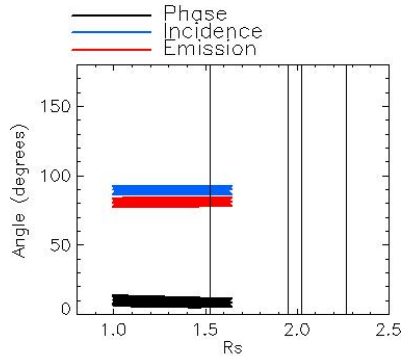
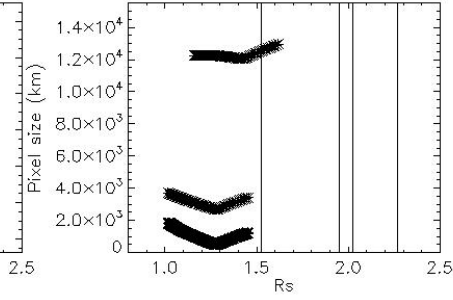
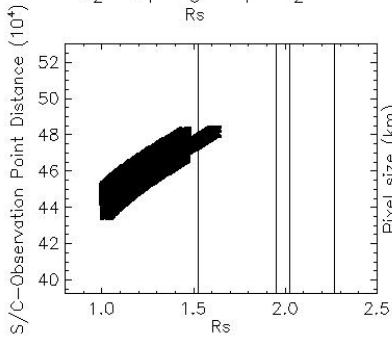


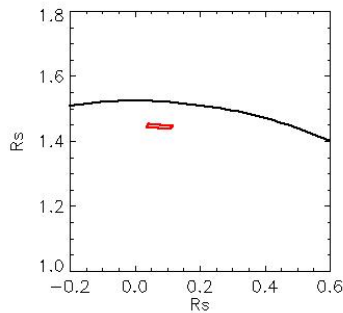
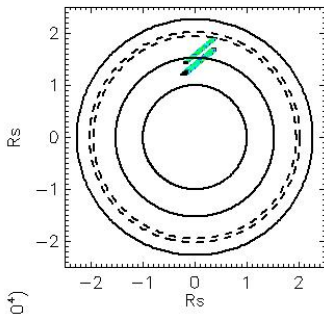
Observation Name:
UMS_117RLPOSTEQXB001_VIMS

Observation Date:
2009_239_20_56_03

Observation Duration:
2000 S

Integration time = 100 S



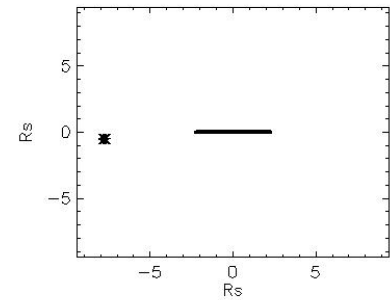
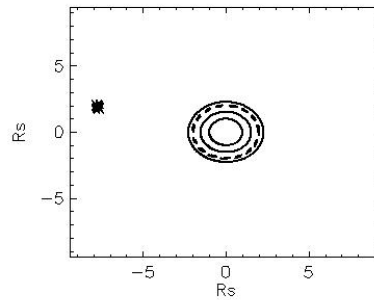
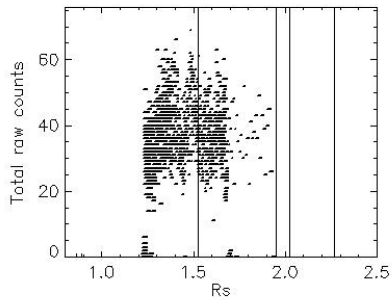
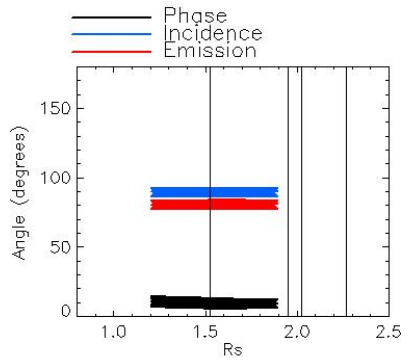
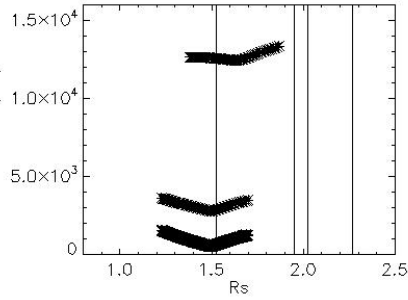
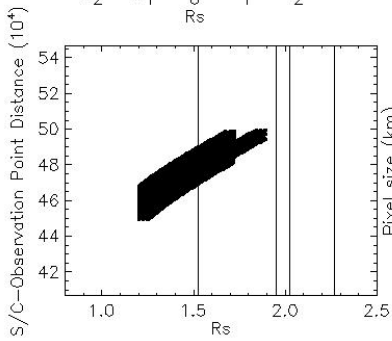


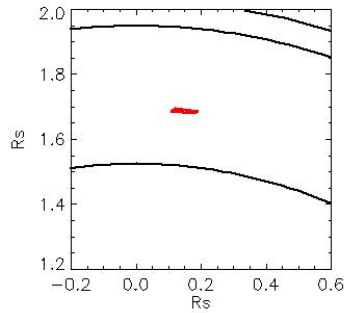
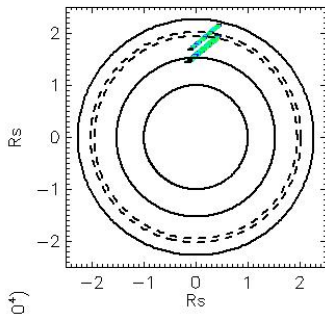
Observation Name:
UMS_117RLPOSTEQXB001_VIMS

Observation Date:
2009_239_21_30_50

Observation Duration:
2000 S

Integration time = 100 S



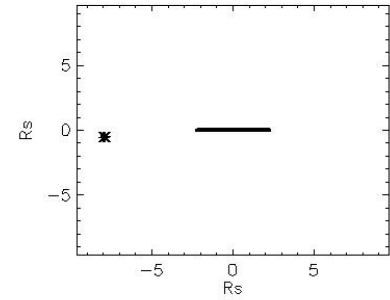
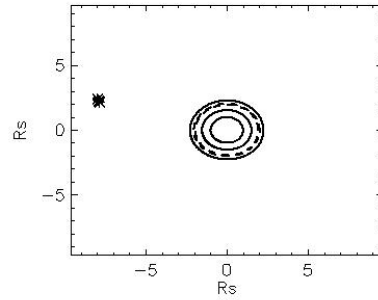
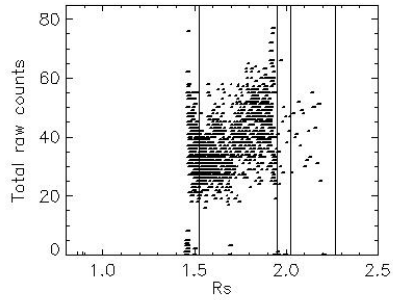
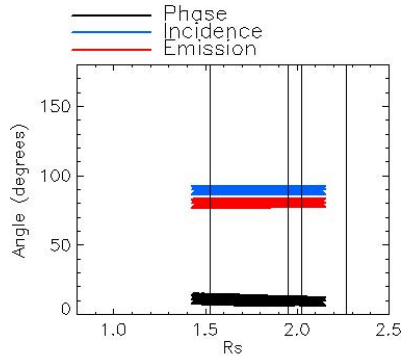
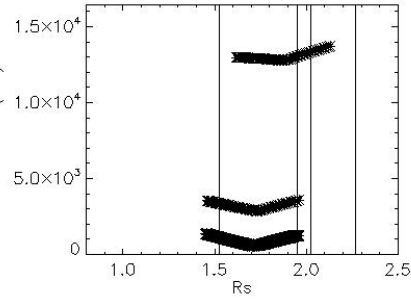
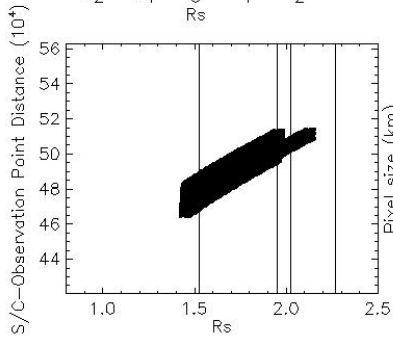


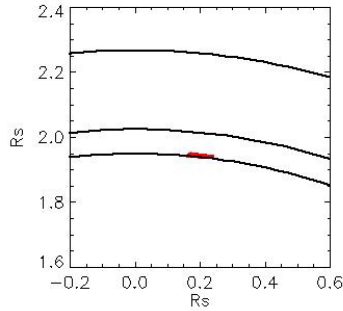
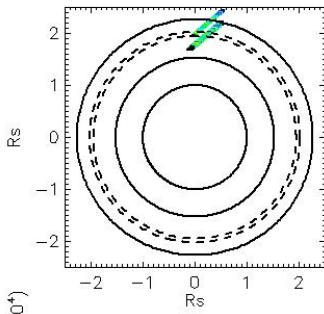
Observation Name:
UMS_117RLPOSTEQXB001_VIMS

Observation Date:
2009_239_22_05_37

Observation Duration:
2000 S

Integration time = 100 S



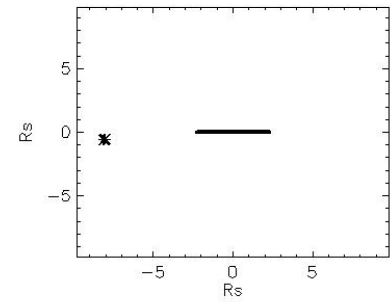
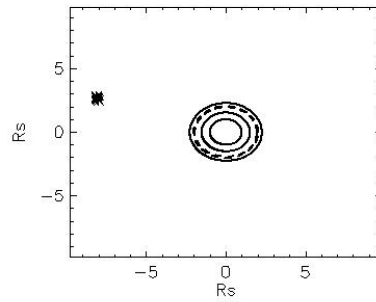
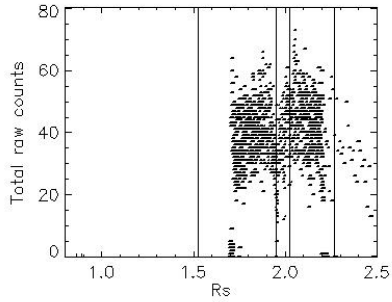
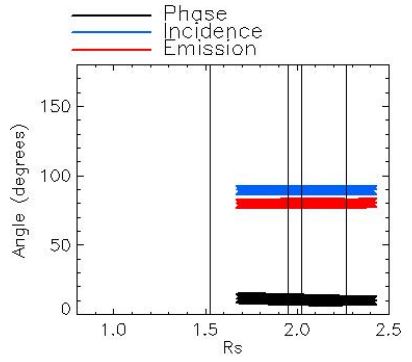
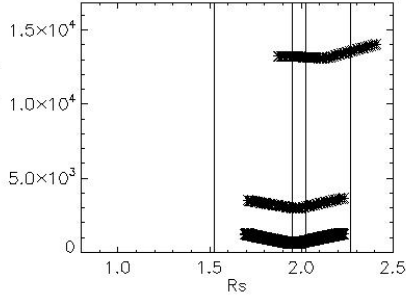
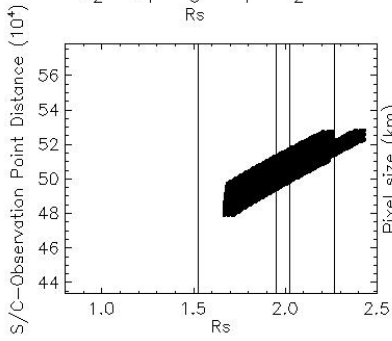


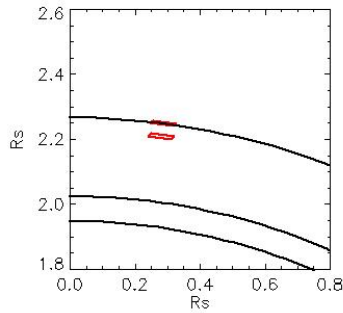
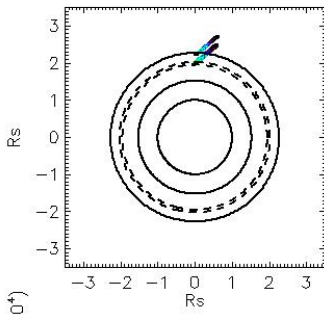
Observation Name:
UMS_117RLPOSTEQXB001_VIMS

Observation Date:
2009_239_22_40_24

Observation Duration:
2000 S

Integration time = 100 S



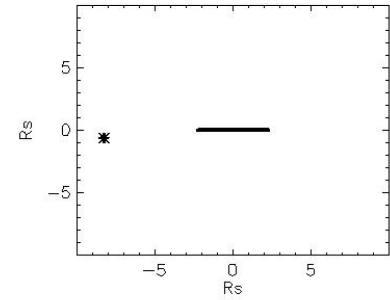
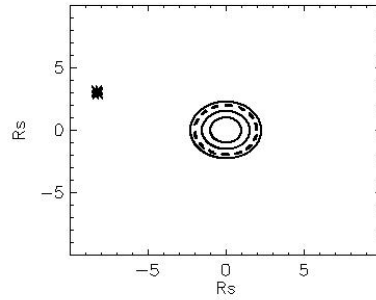
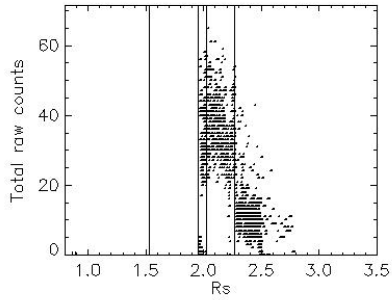
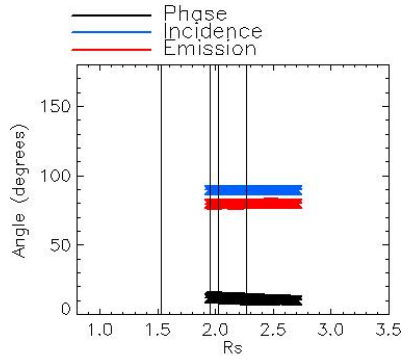
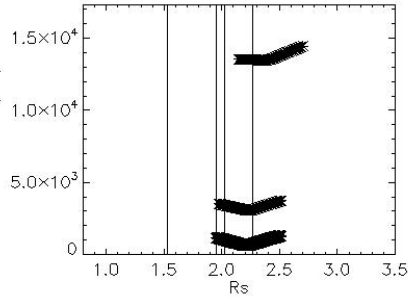
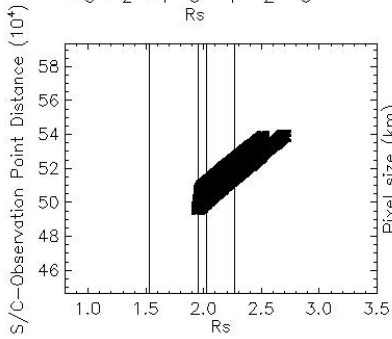


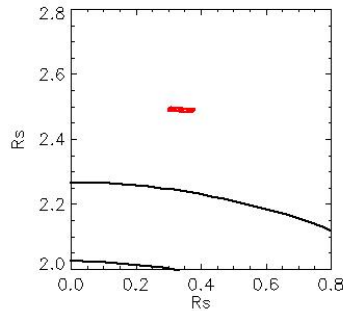
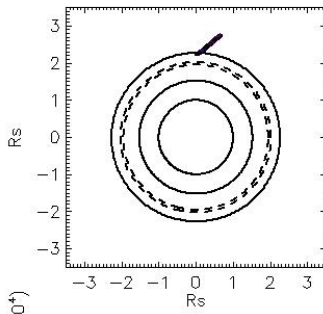
Observation Name:
UMS_117RLPOSTEQXB001_VIMS

Observation Date:
2009_239_23_15_11

Observation Duration:
2000 S

Integration time = 100 S



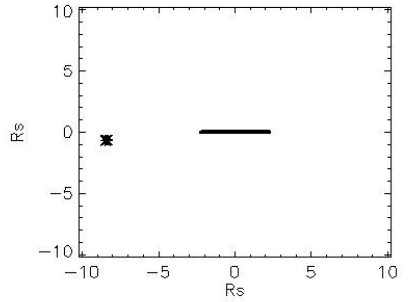
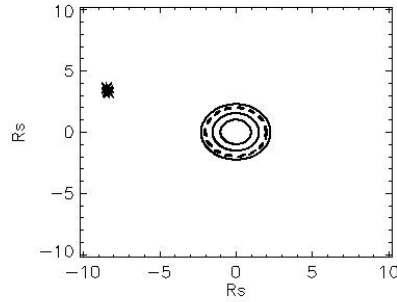
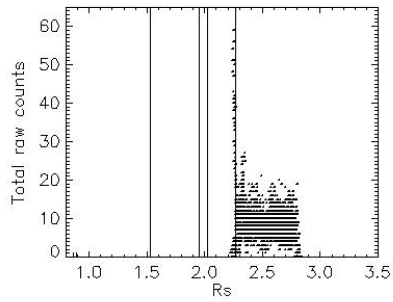
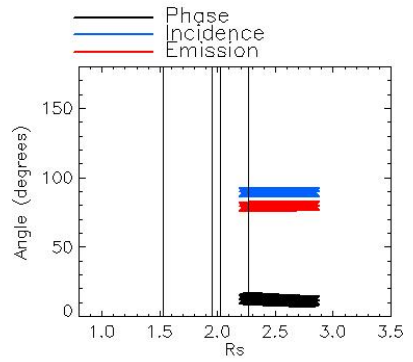
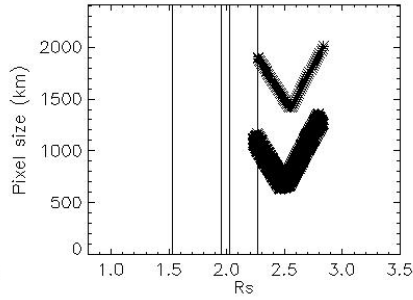
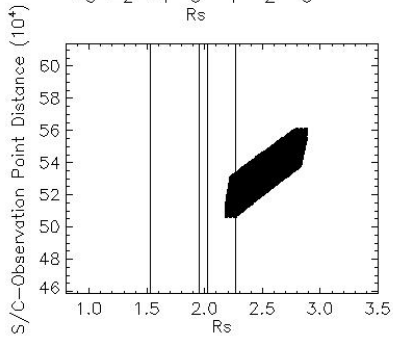


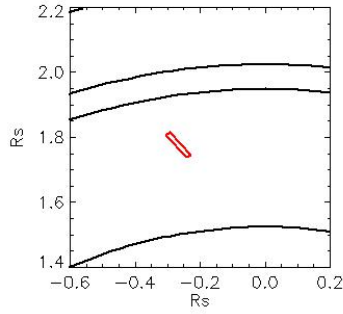
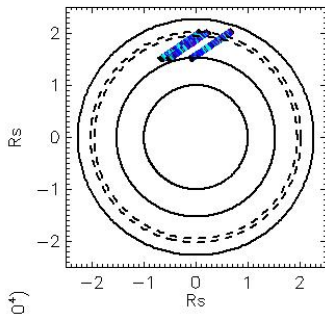
Observation Name:
UMS_117RLPOSTEQXB001_VIMS

Observation Date:
2009_239_23_49_59

Observation Duration:
2900 S

Integration time = 100 S



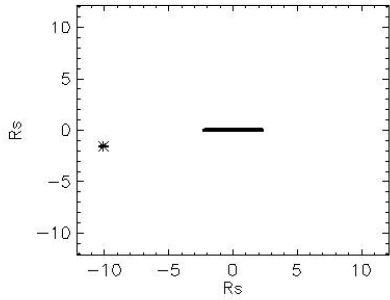
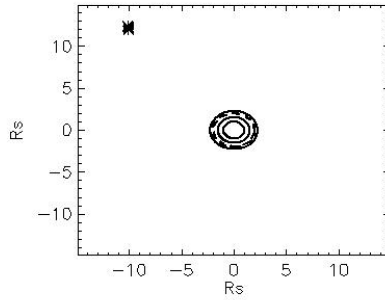
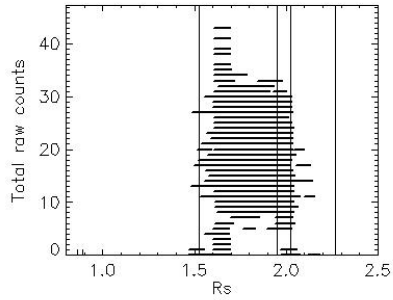
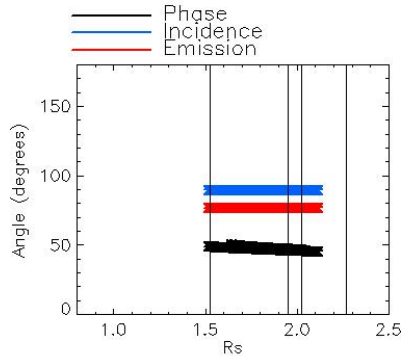
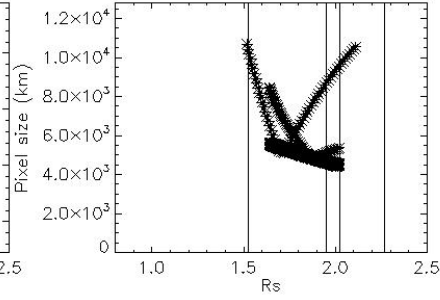
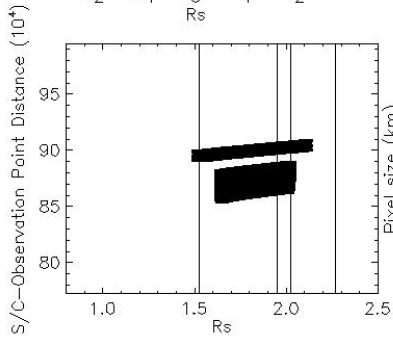


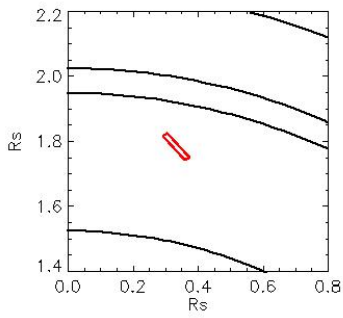
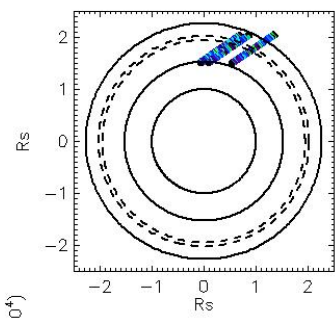
Observation Name:
UMS_117RLPOSTEQXB002_VIMS

Observation Date:
2009_240_16_51_04

Observation Duration:
3300 S

Integration time = 100 S





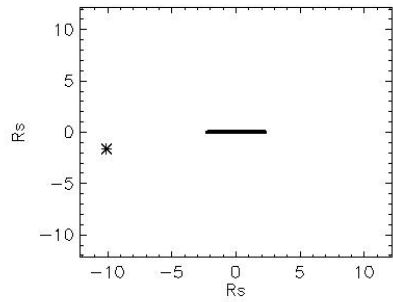
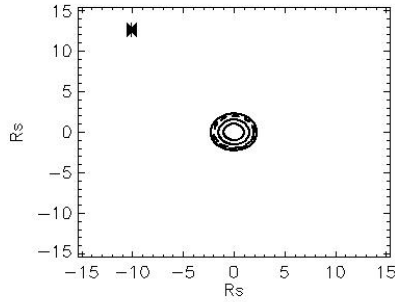
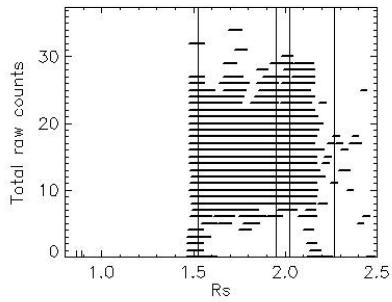
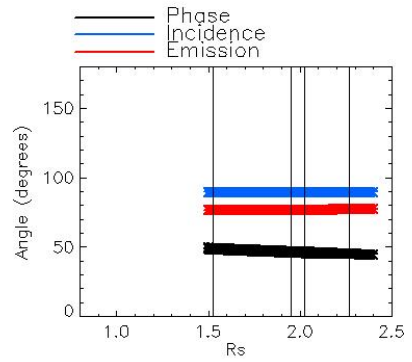
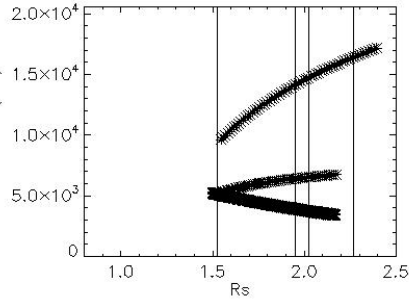
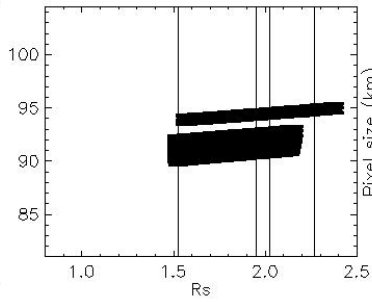
Observation Name:
UMS_117RLPOSTEQXB002_VIMS

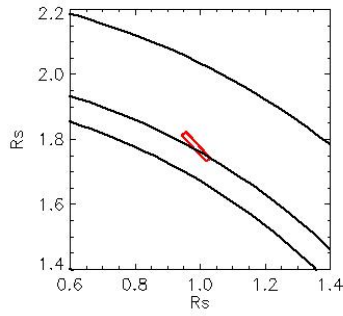
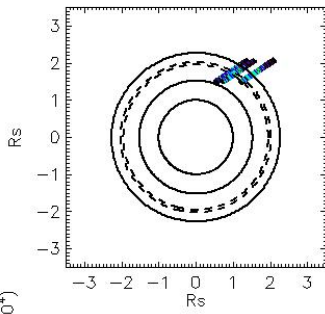
Observation Date:
2009_240_17_47_21

Observation Duration:
3300 S

Integration time = 100 S

S/C—Observation Point Distance (10^4)





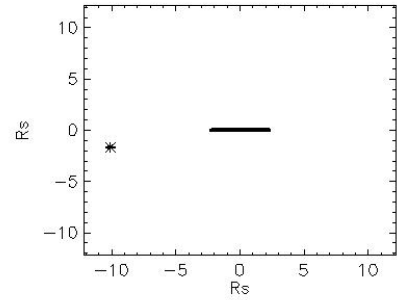
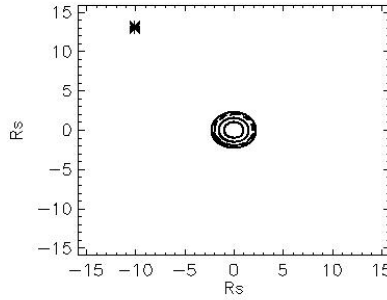
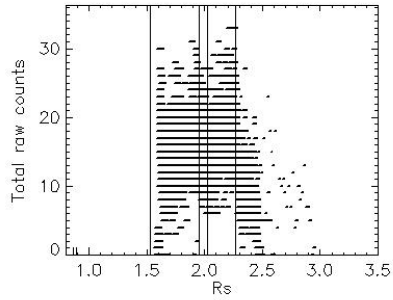
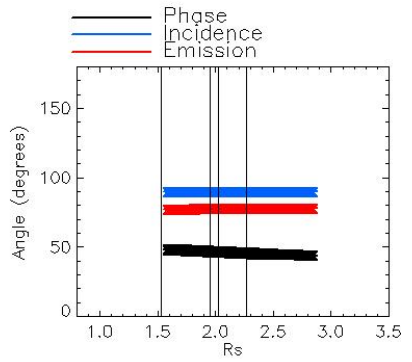
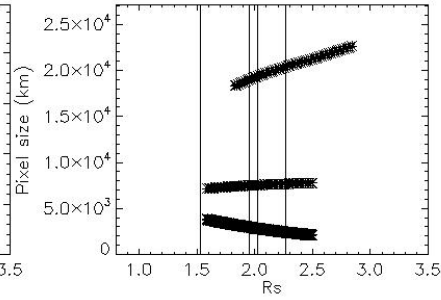
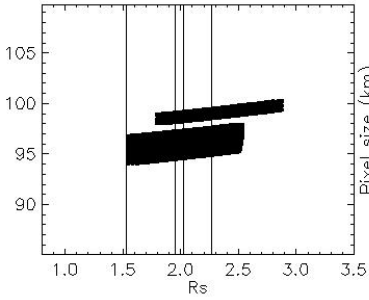
Observation Name:
UMS_117RLPOSTEQXB002_VIMS

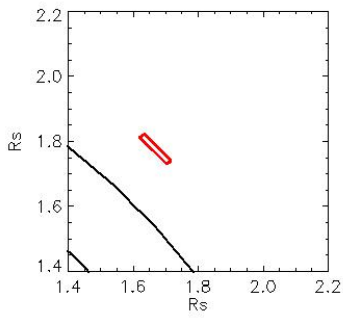
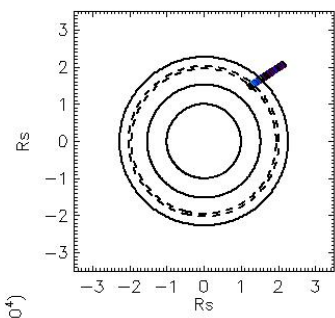
Observation Date:
2009_240_18_43_38

Observation Duration:
3300 S

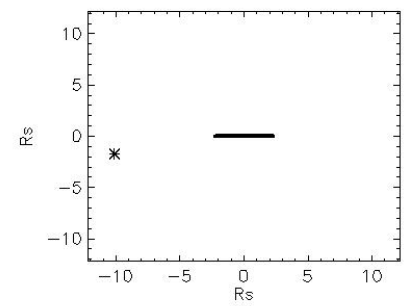
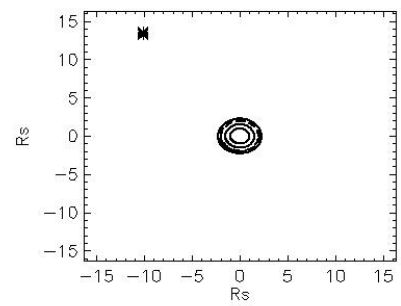
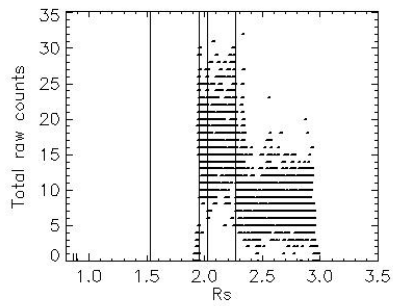
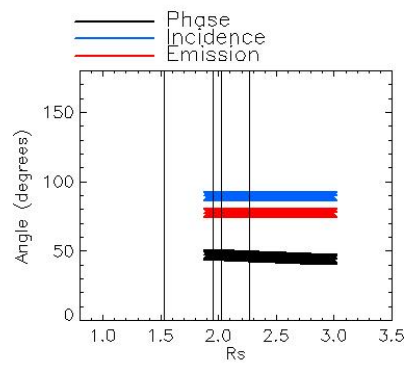
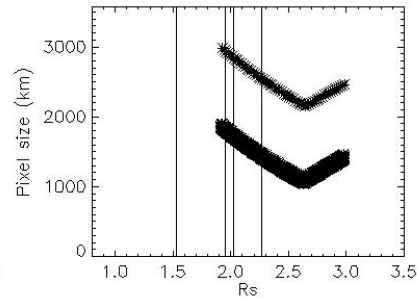
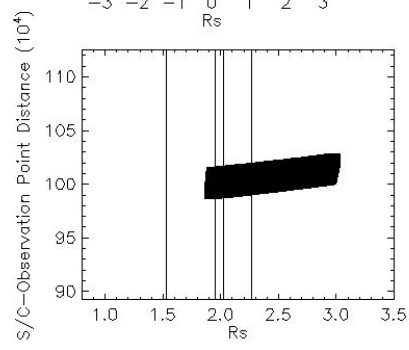
Integration time = 100 S

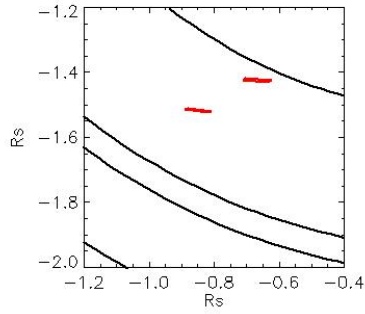
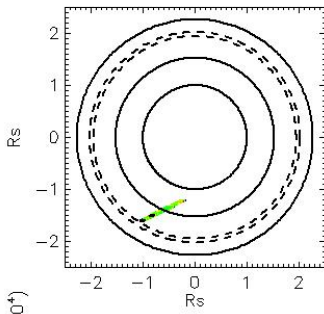
S/C—Observation Point Distance (10^4)





Observation Name:
 UVS_117RLPOSTEQXB002_VIMS
 Observation Date:
 2009_240_19_39_55
 Observation Duration:
 3200 S
 Integration time = 100 S



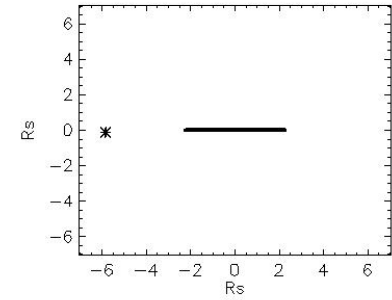
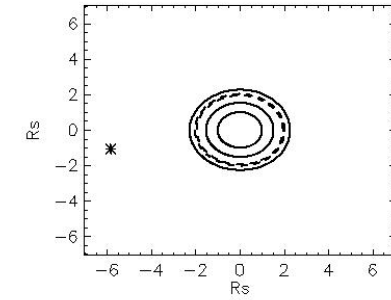
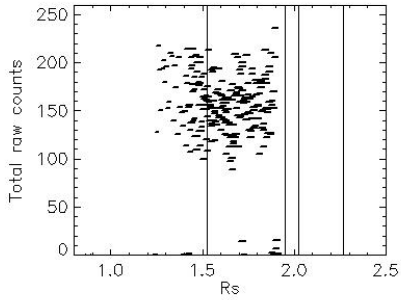
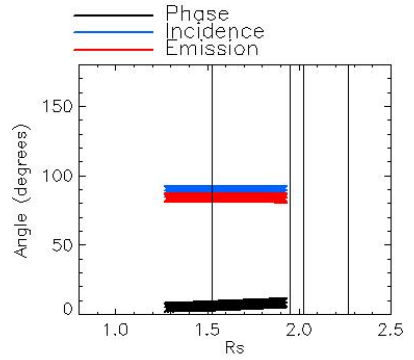
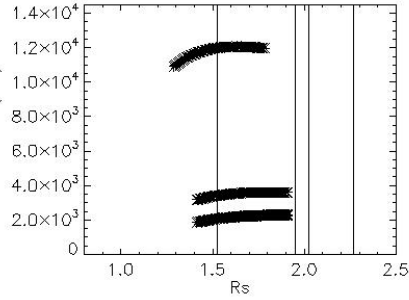
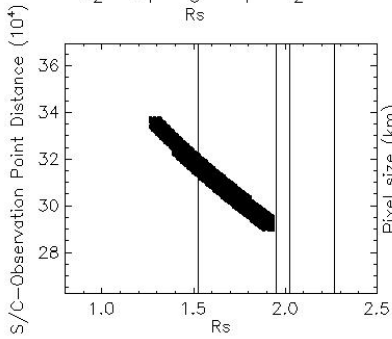


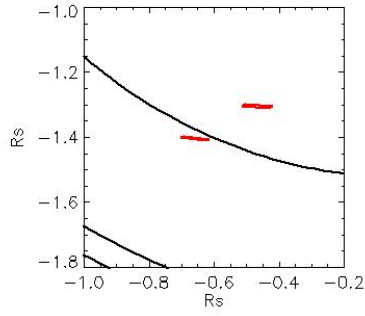
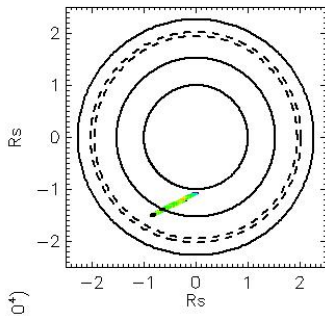
Observation Name:
UMS_118RLLOWPHASE001_VIMS

Observation Date:
2009_263_16_17_44

Observation Duration:
400 S

Integration time = 100 S



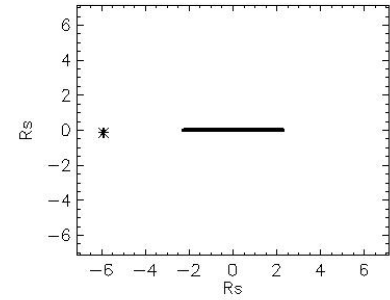
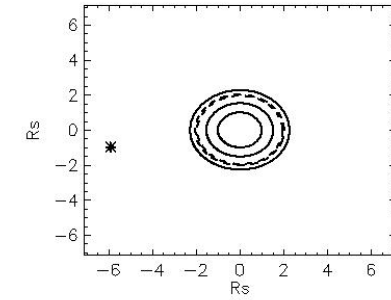
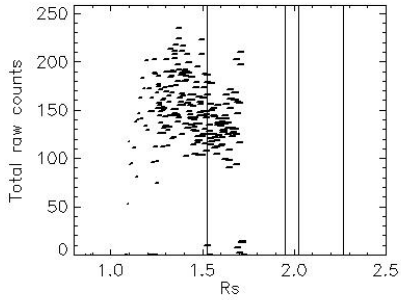
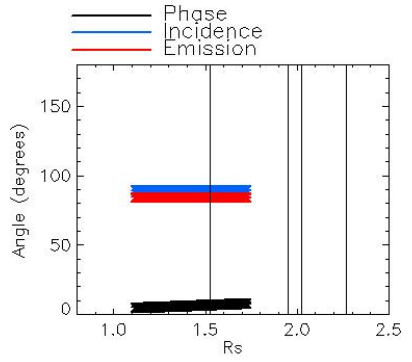
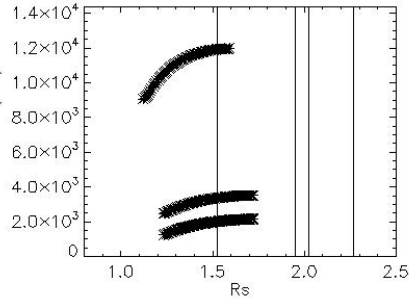
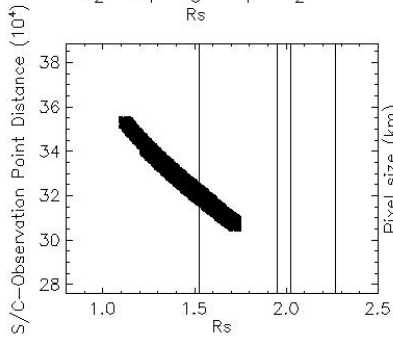


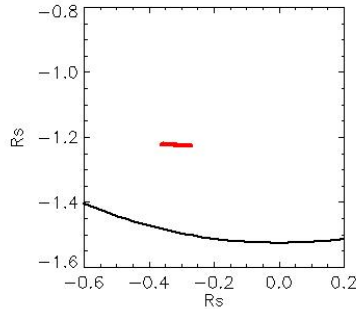
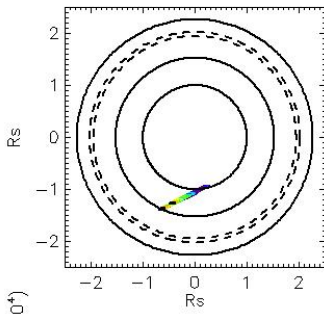
Observation Name:
UMS_118RLLOWPHASE001_VIMS

Observation Date:
2009_263_16_25_47

Observation Duration:
400 S

Integration time = 100 S



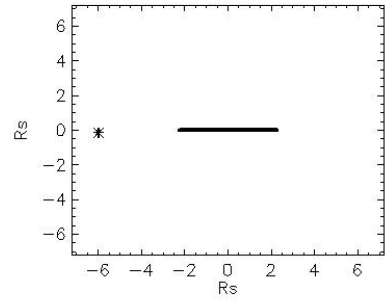
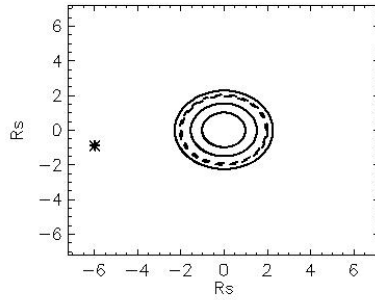
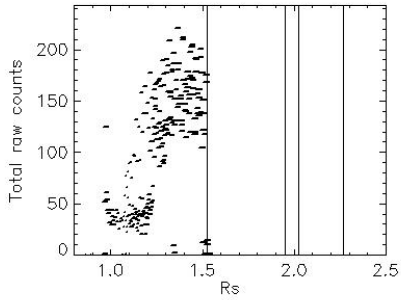
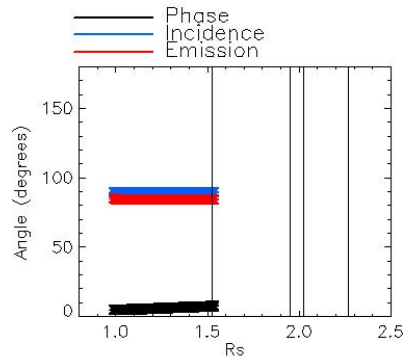
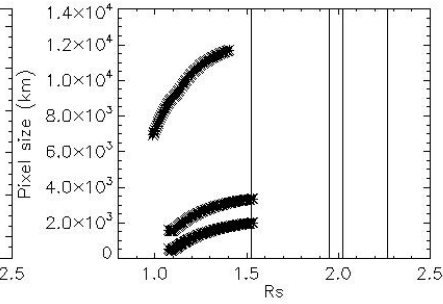
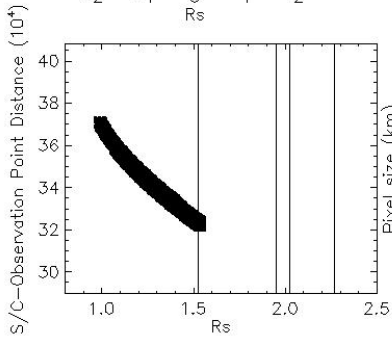


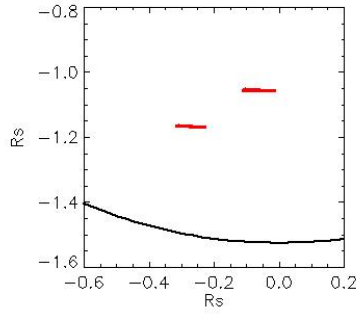
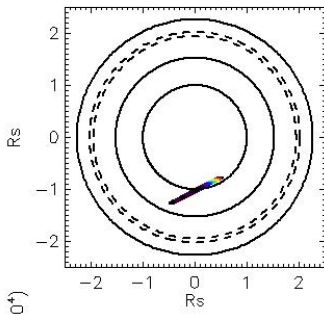
Observation Name:
UMS_118RLLOWPHASE001_VIMS

Observation Date:
2009_263_16_33_50

Observation Duration:
400 S

Integration time = 100 S



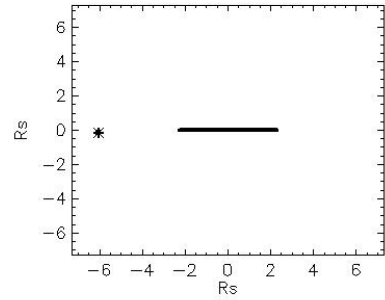
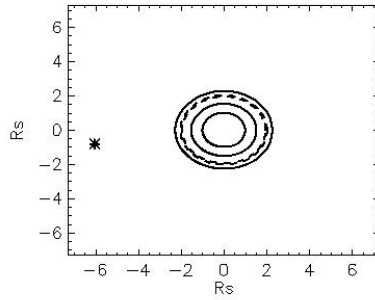
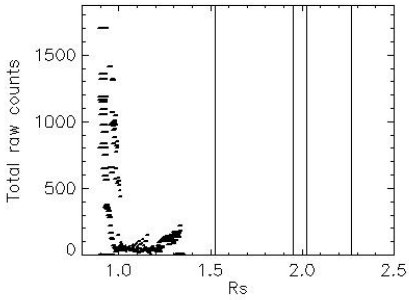
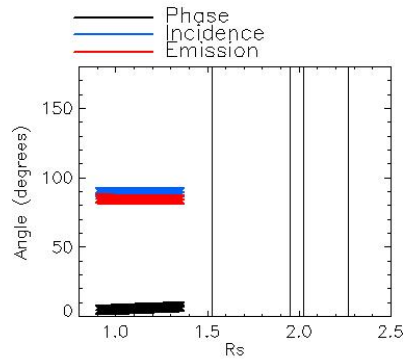
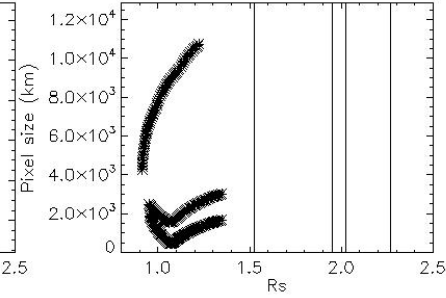
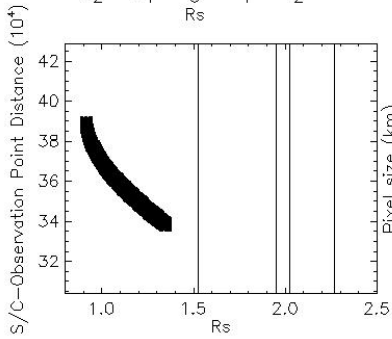


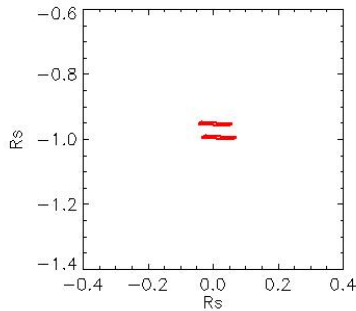
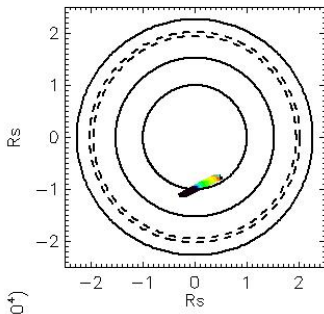
Observation Name:
UMS_118RLLOWPHASE001_VIMS

Observation Date:
2009_263_16_41_53

Observation Duration:
400 S

Integration time = 100 S



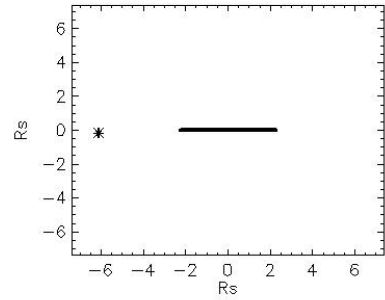
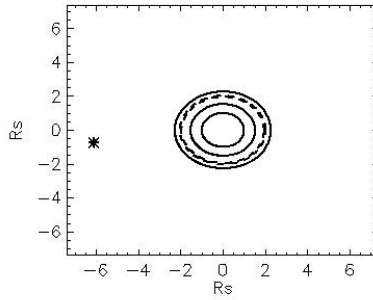
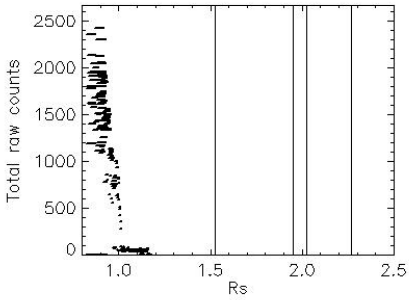
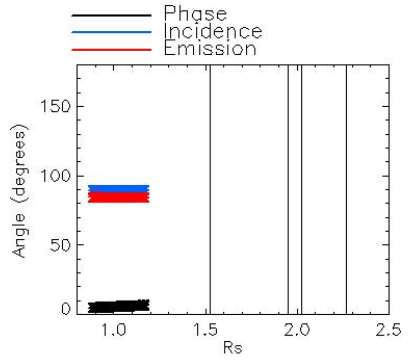
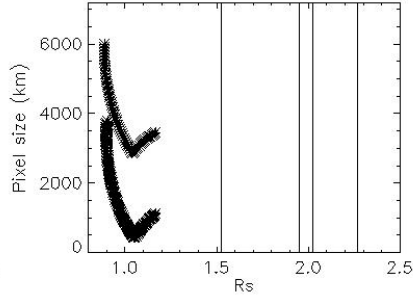
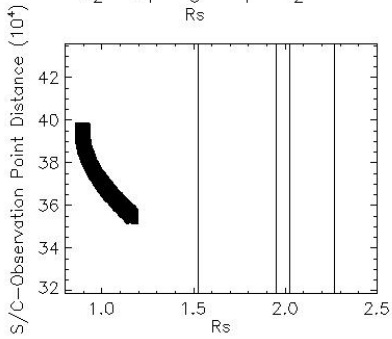


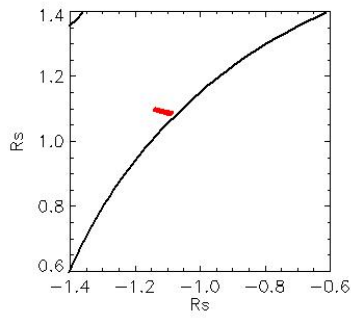
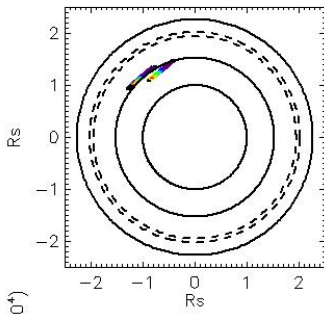
Observation Name:
UMS_118RLLOWPHASE001_VIMS

Observation Date:
2009_263_16_49_56

Observation Duration:
400 S

Integration time = 100 S



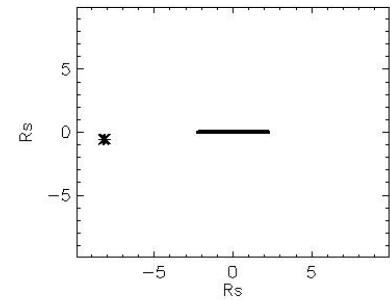
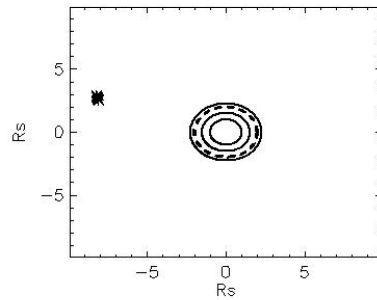
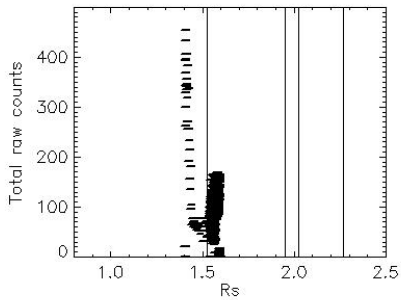
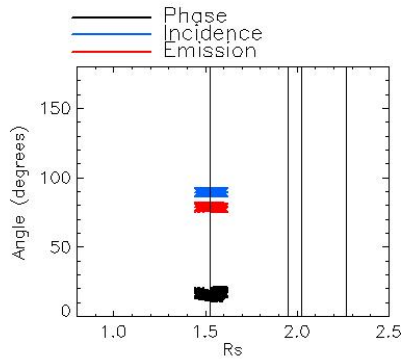
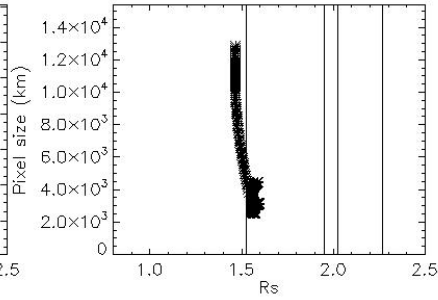
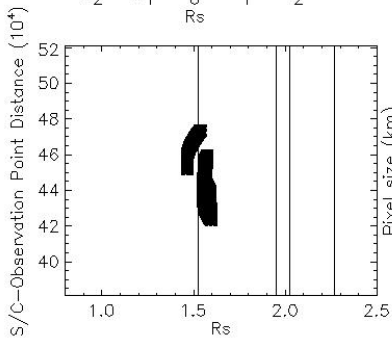


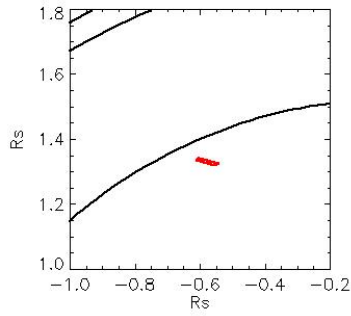
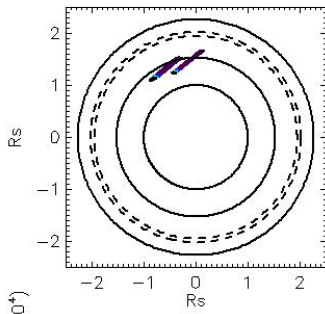
Observation Name:
UMS_118RLPOSTEQX001_VIMS

Observation Date:
2009_263_22_07_34

Observation Duration:
2300 S

Integration time = 100 S



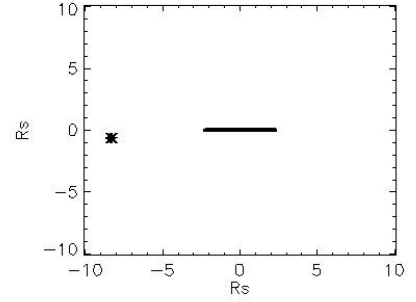
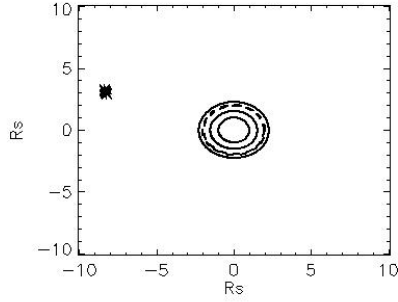
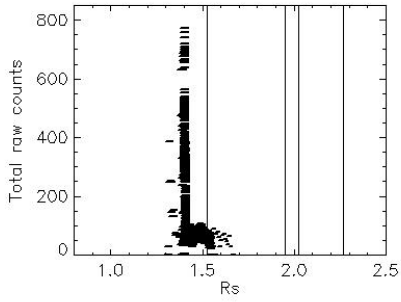
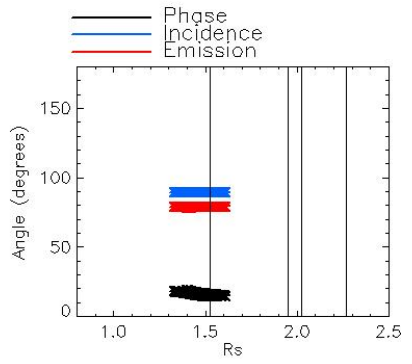
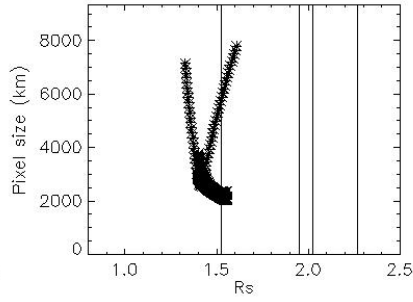
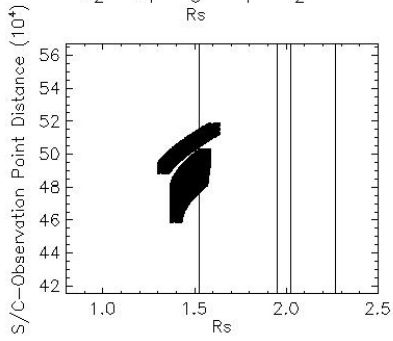


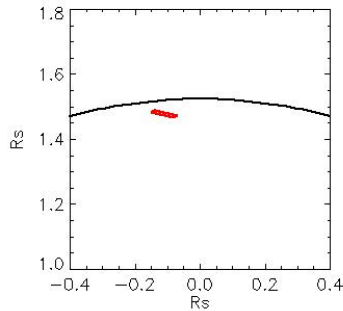
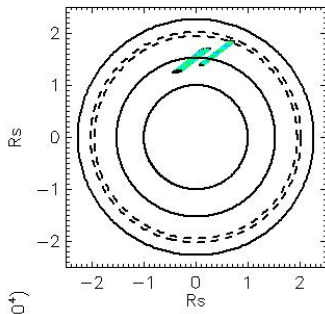
Observation Name:
UMS_118RLPOSTEQX001_VIMS

Observation Date:
2009_263_22_47_31

Observation Duration:
2300 S

Integration time = 100 S



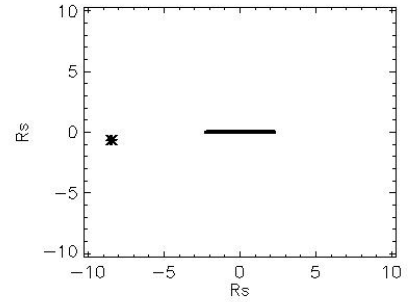
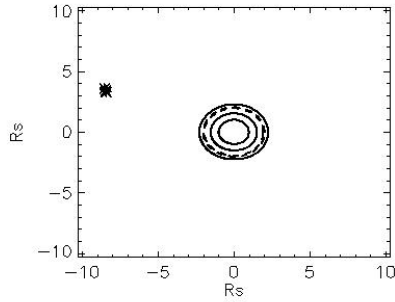
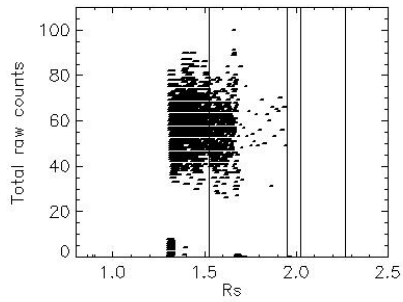
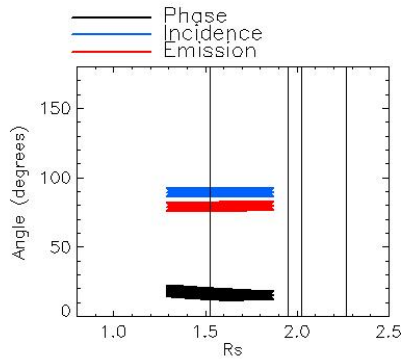
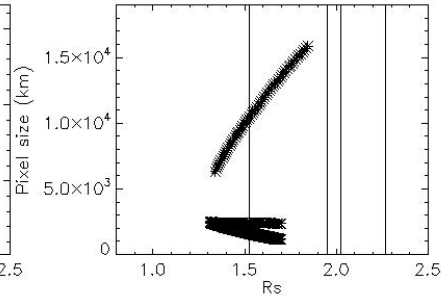
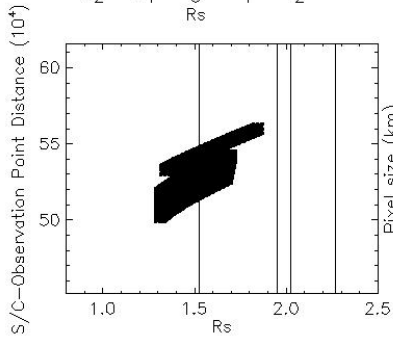


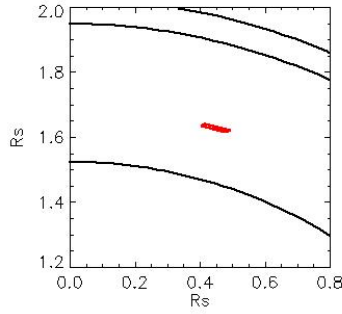
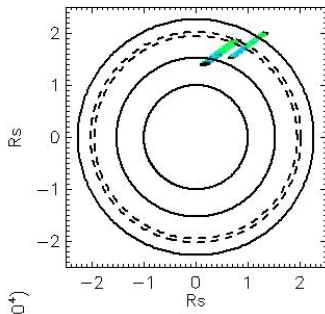
Observation Name:
UMS_118RLPOSTEQX001_VIMS

Observation Date:
2009_263_23_27_28

Observation Duration:
2300 S

Integration time = 100 S



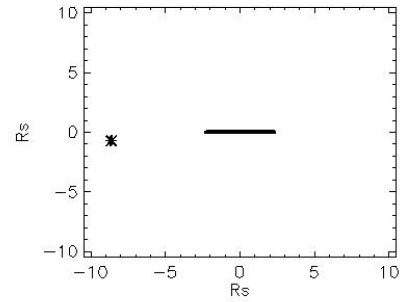
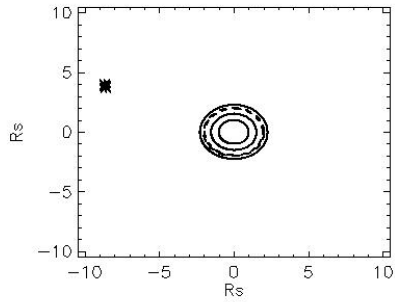
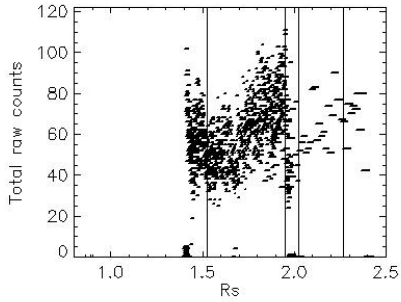
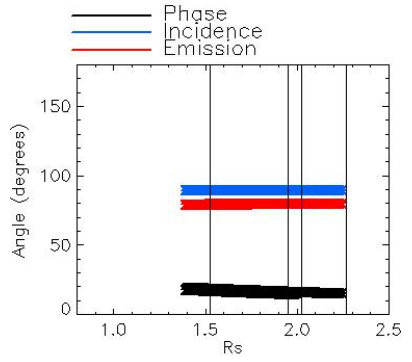
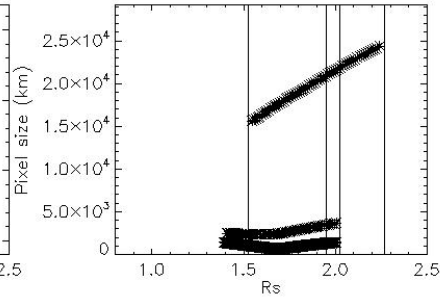
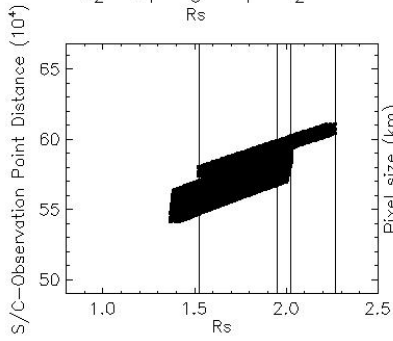


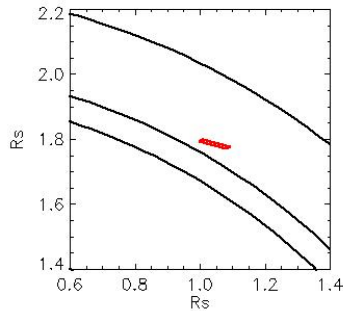
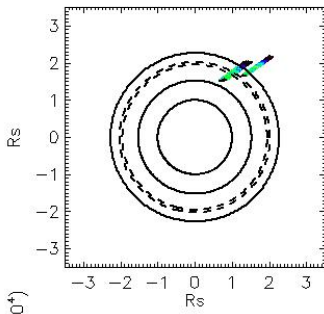
Observation Name:
UMS_118RLPOSTEQX001_VIMS

Observation Date:
2009_264_00_07_25

Observation Duration:
2300 S

Integration time = 100 S



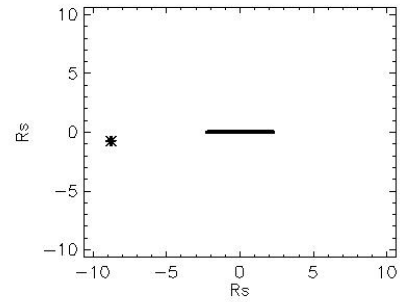
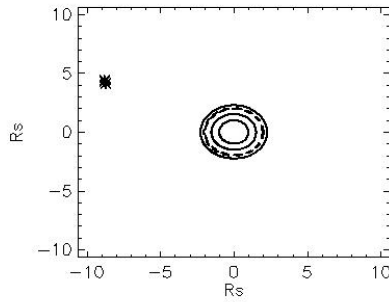
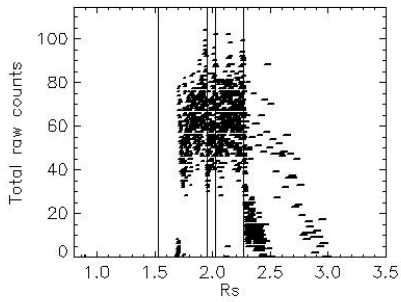
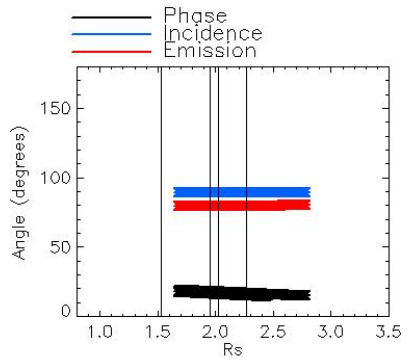
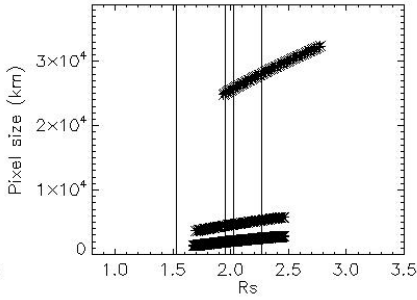
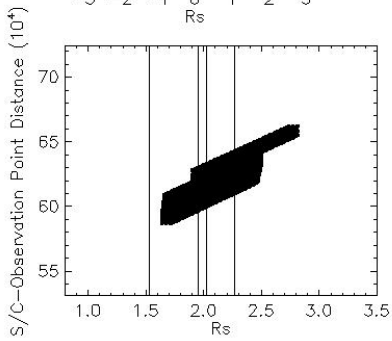


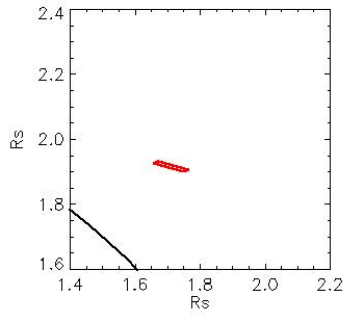
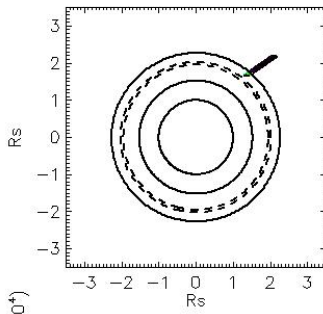
Observation Name:
UMS_118RLPOSTEQX001_VIMS

Observation Date:
2009_264_00_47_22

Observation Duration:
2300 S

Integration time = 100 S



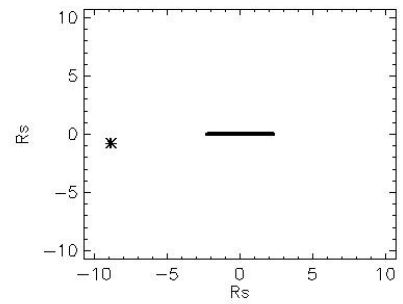
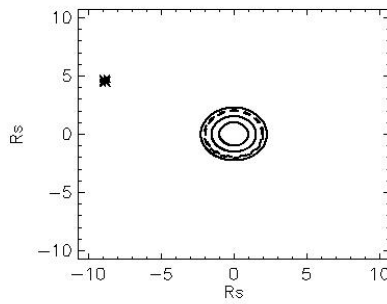
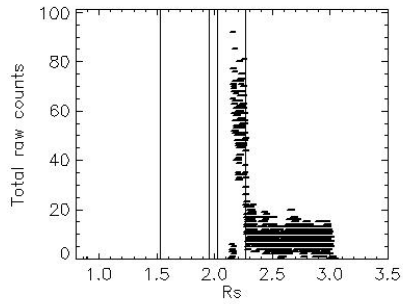
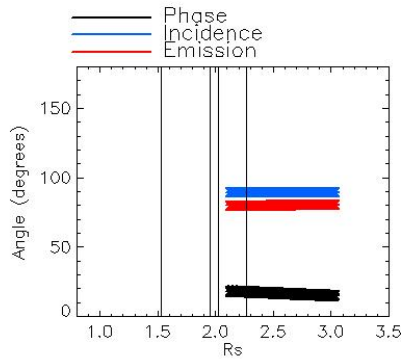
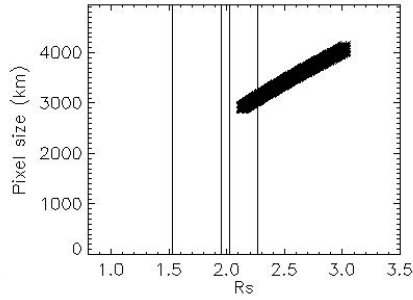
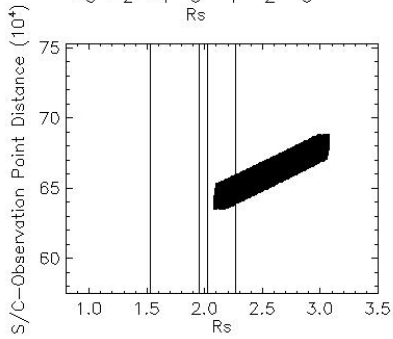


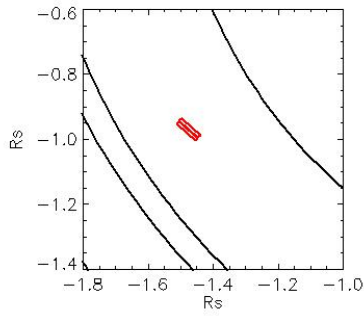
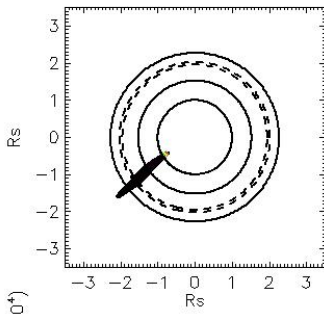
Observation Name:
UMS_118RLPOSTEQX001_VIMS

Observation Date:
2009_264_01_27_19

Observation Duration:
1500 S

Integration time = 100 S



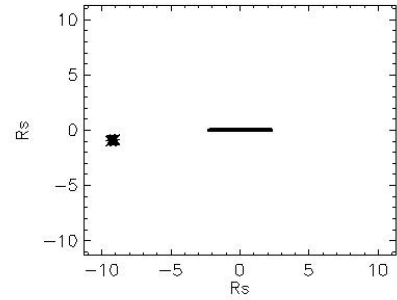
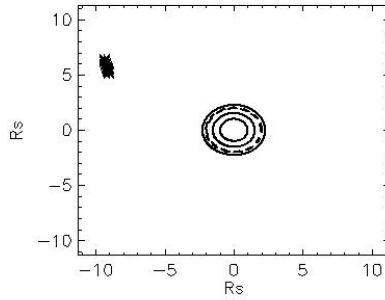
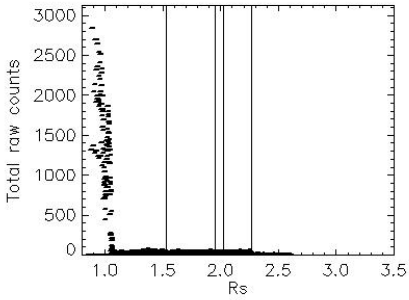
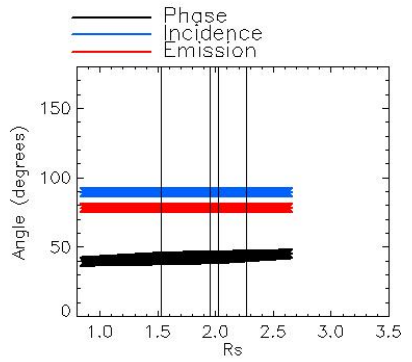
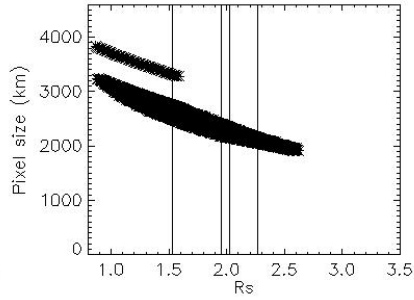
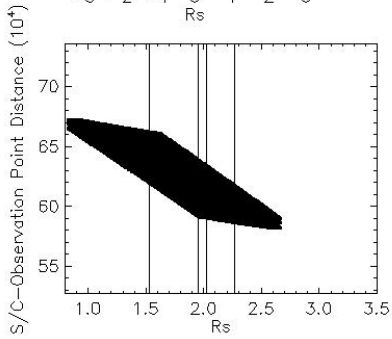


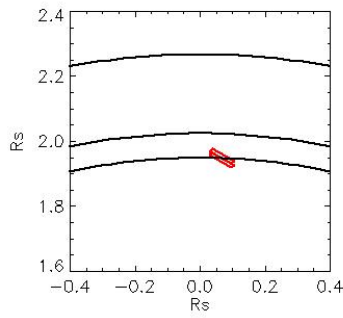
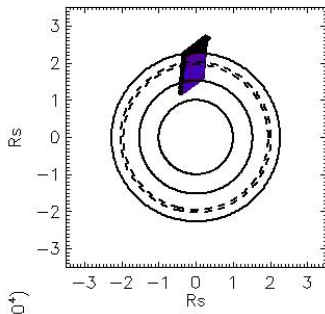
Observation Name:
UMS_118RLEQLBN001_CIRS

Observation Date:
2009_264_02_31_33

Observation Duration:
8800 S

Integration time = 100 S



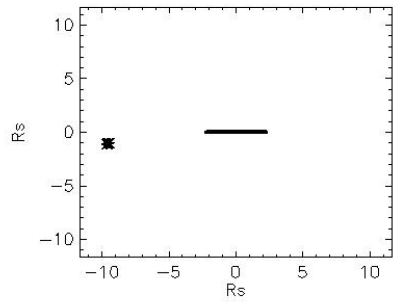
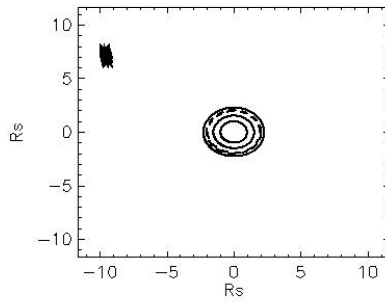
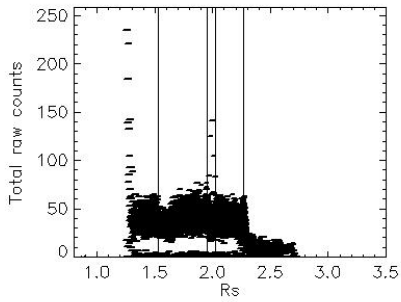
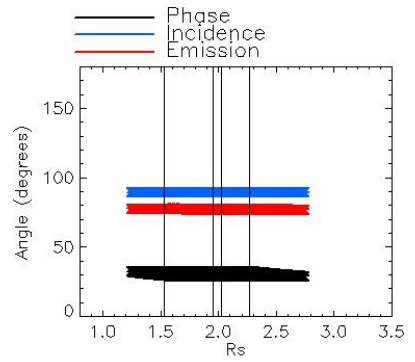
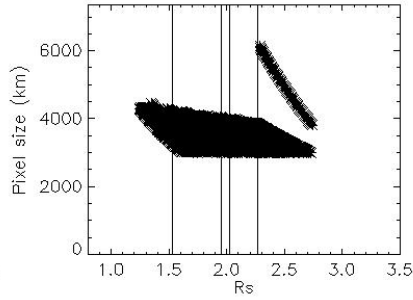
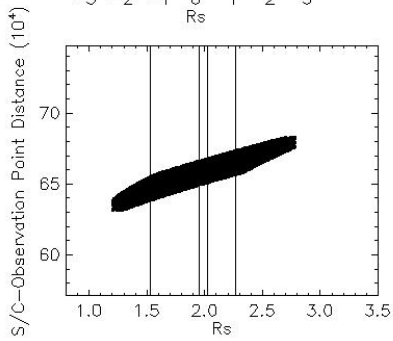


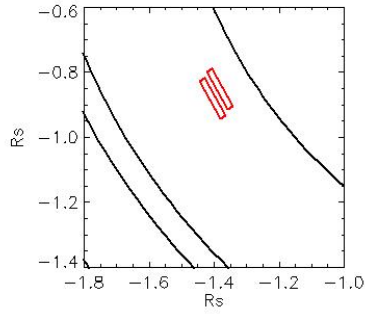
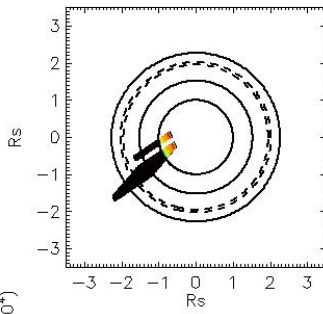
Observation Name:
UVS_118RLEQLBN001_CIRS

Observation Date:
2009_264_05_04_33

Observation Duration:
8800 S

Integration time = 100 S



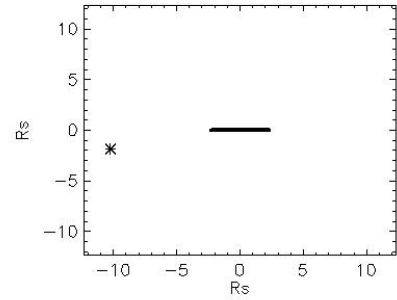
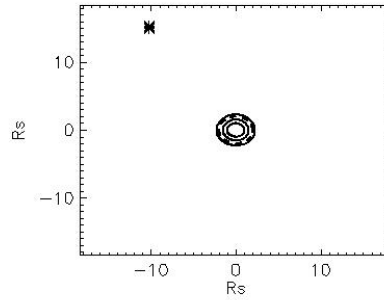
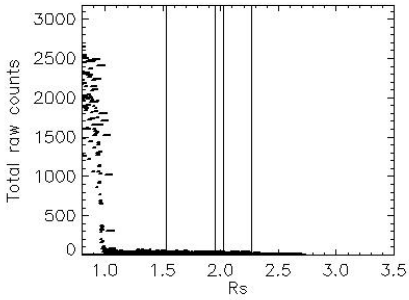
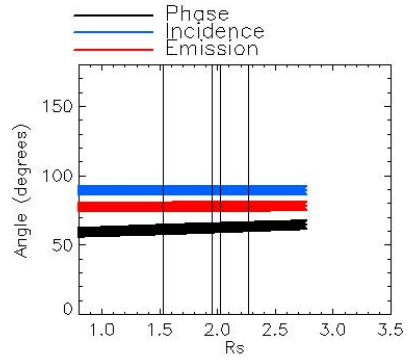
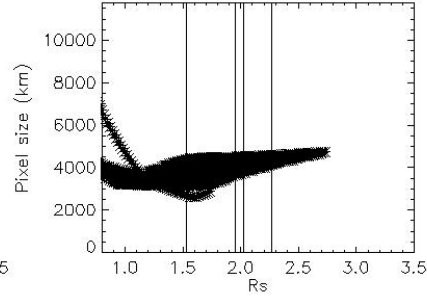
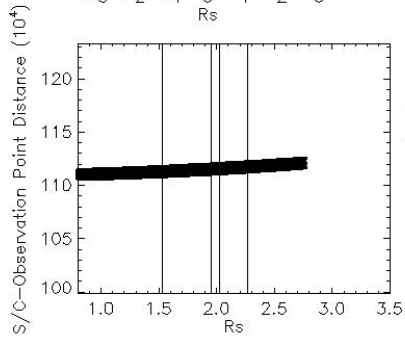


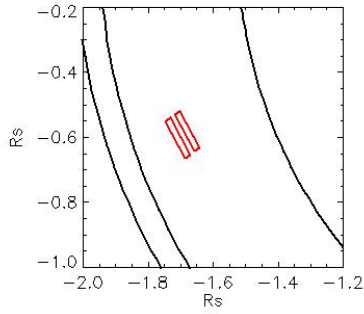
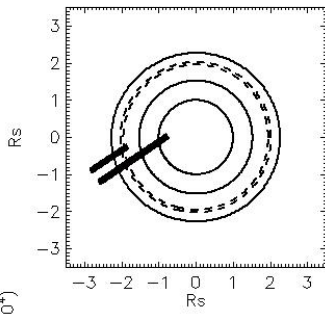
Observation Name:
UVS_118RLMAPN10LP002_CIRS

Observation Date:
2009_264_23_26_33

Observation Duration:
3000 S

Integration time = 100 S



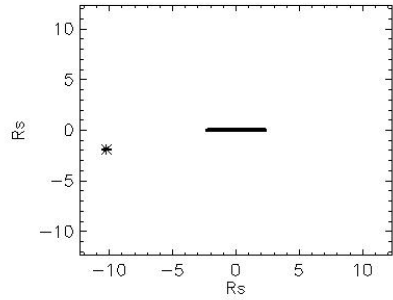
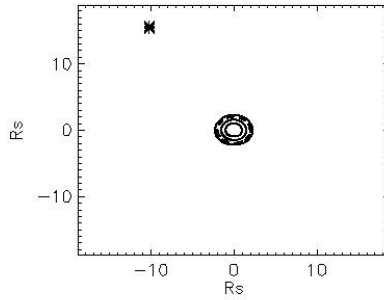
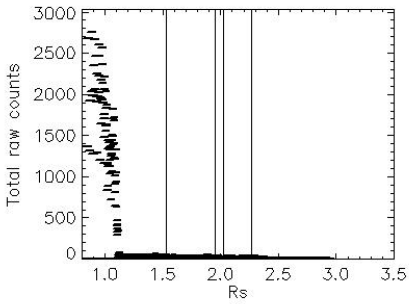
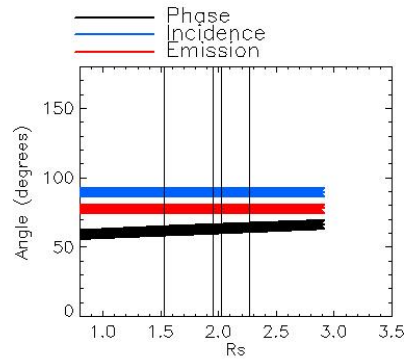
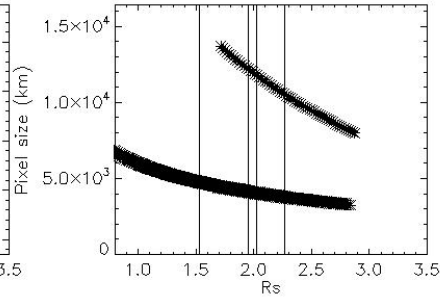
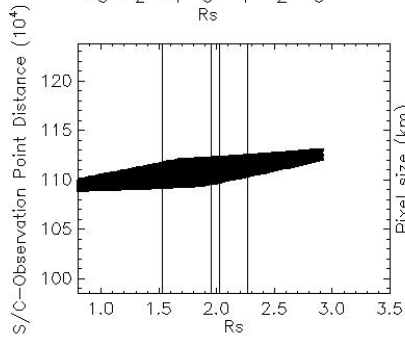


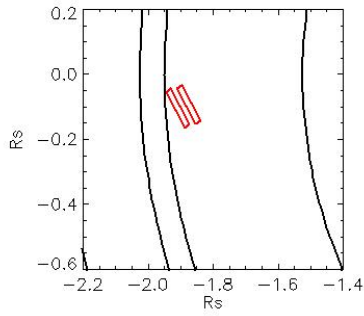
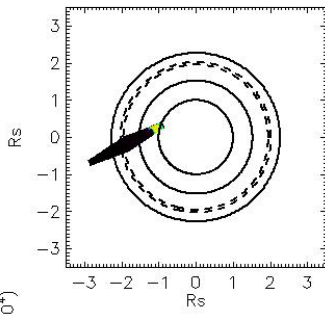
Observation Name:
UVIS_118RLTMAPN10LP002_CIRS

Observation Date:
2009_265_00_21_33

Observation Duration:
3000 S

Integration time = 100 S



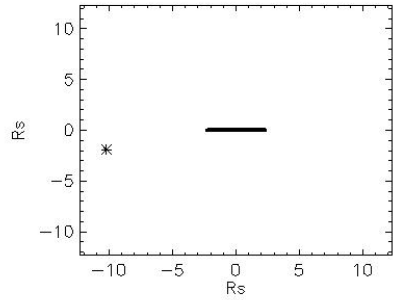
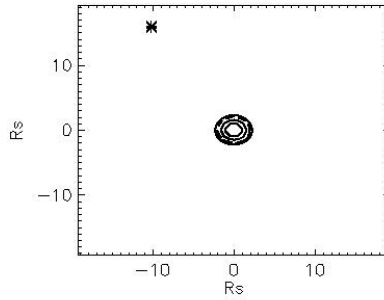
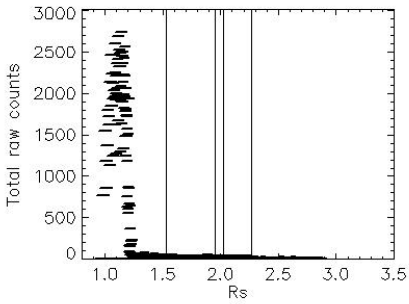
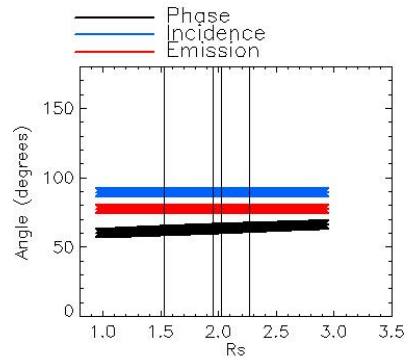
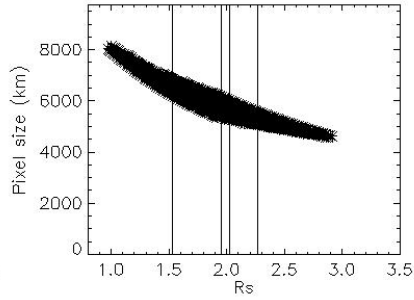
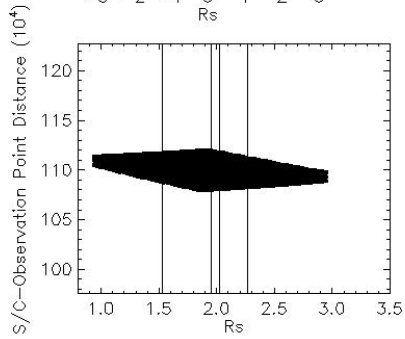


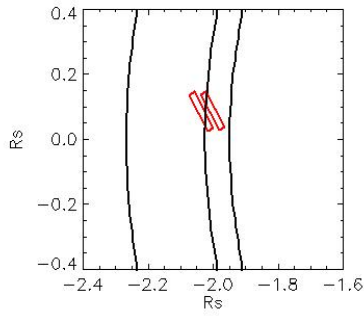
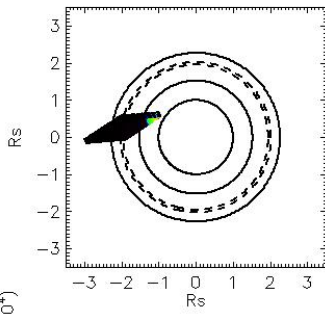
Observation Name:
UVS_118RLTMAPN10LP002_CIRS

Observation Date:
2009_265_01_16_33

Observation Duration:
3000 S

Integration time = 100 S



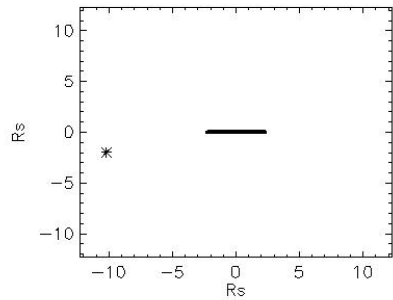
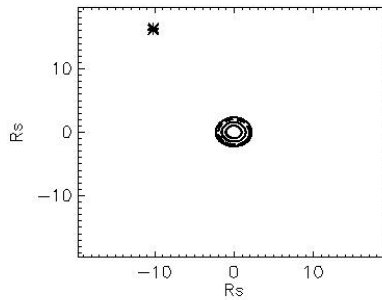
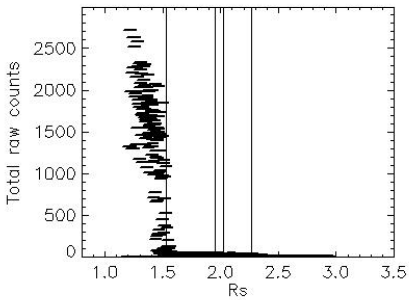
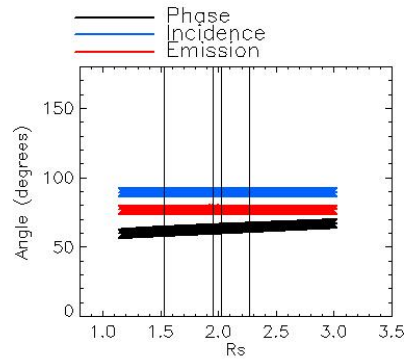
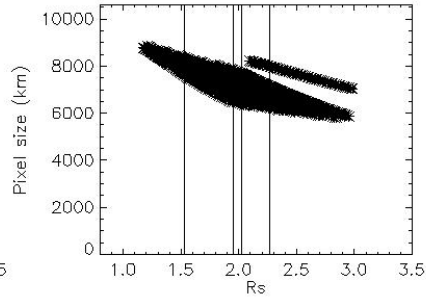
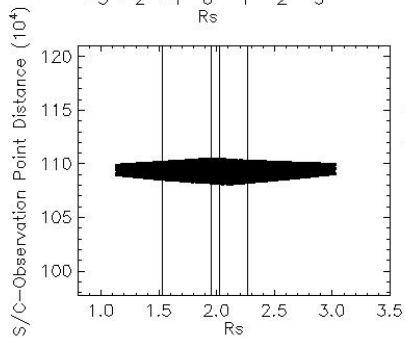


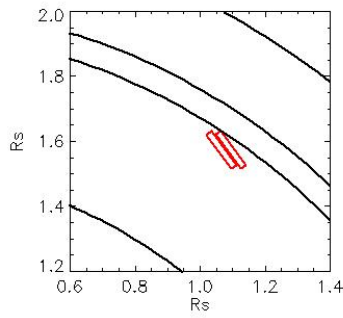
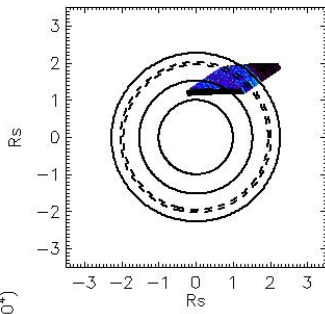
Observation Name:
UVS_118RLMAPN10LP002_CIRS

Observation Date:
2009_265_02_12_33

Observation Duration:
3000 S

Integration time = 100 S



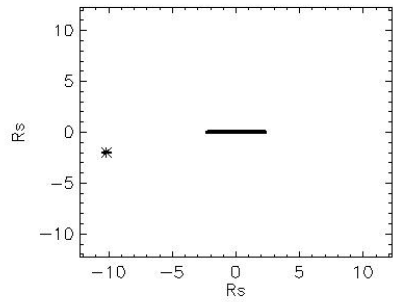
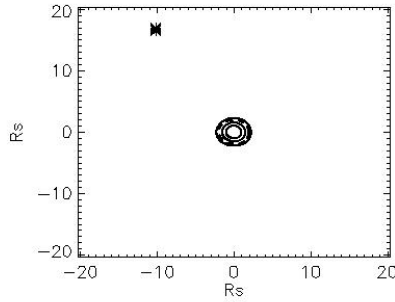
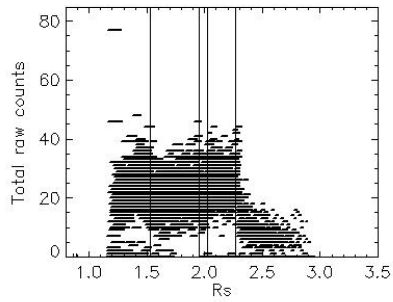
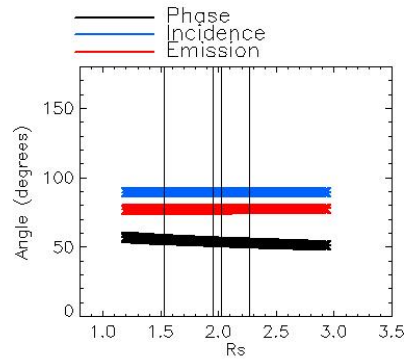
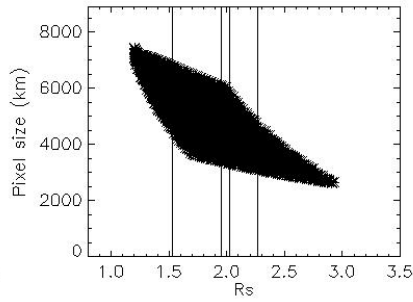
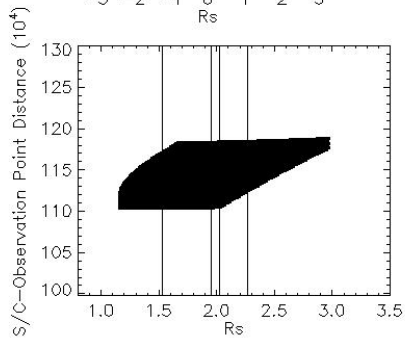


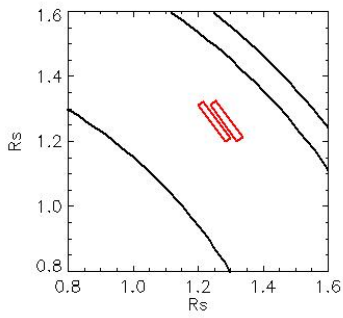
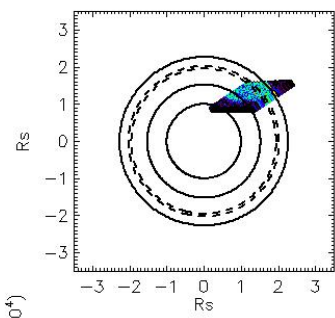
Observation Name:
UVIS_118RLMAPN10LP002_CIRS

Observation Date:
2009_265_03_07_33

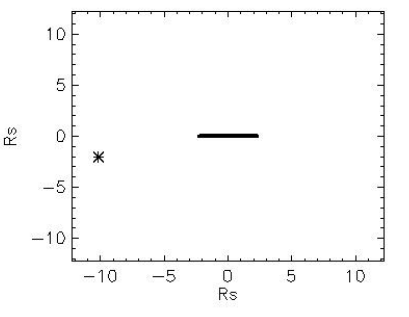
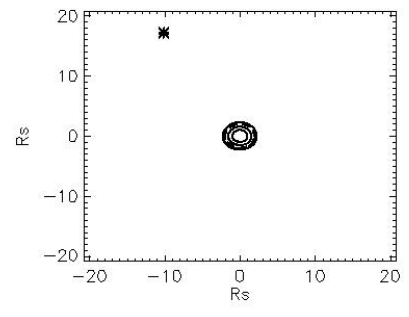
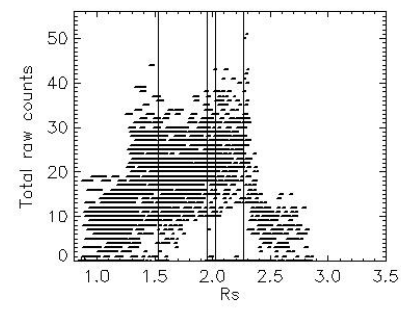
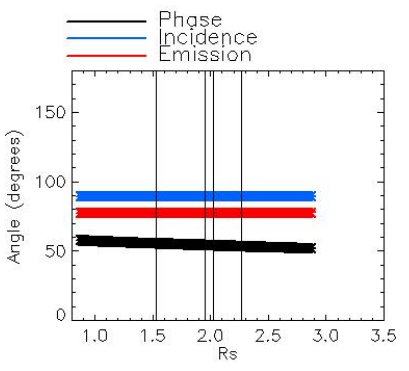
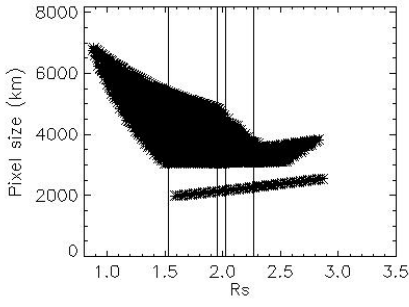
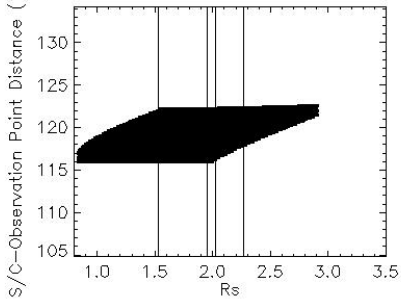
Observation Duration:
4800 S

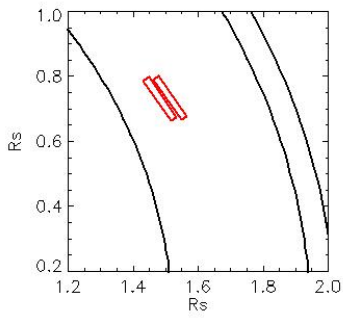
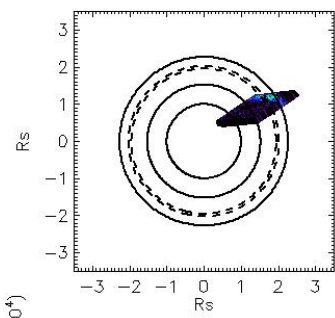
Integration time = 100 S





Observation Name:
 UVS_118RLTMAPN10LP002_CIRS
 Observation Date:
 2009_265_04_33_33
 Observation Duration:
 3100 S
 Integration time = 100 S





Observation Name:
 UVS_118RLTMAPN10LP002_CIRS
 Observation Date:
 2009_265_05_30_33
 Observation Duration:
 3300 S
 Integration time = 100 S

