

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.

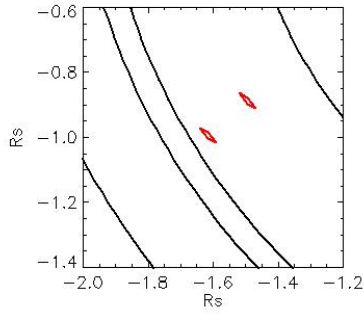
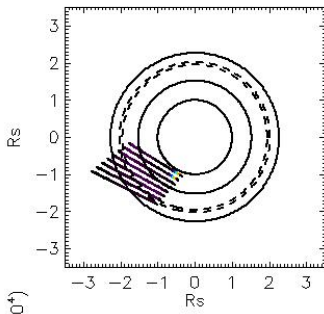
Middle center: Maximum projected smeared pixel size for all data records plotted against the radial location of the projected pixel at the middle of the integration period.

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.

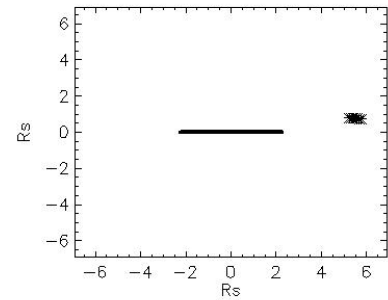
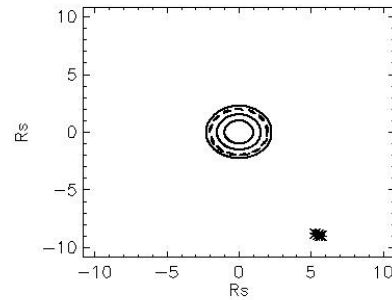
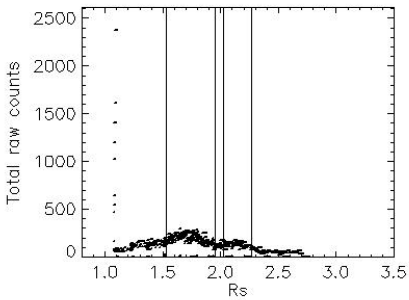
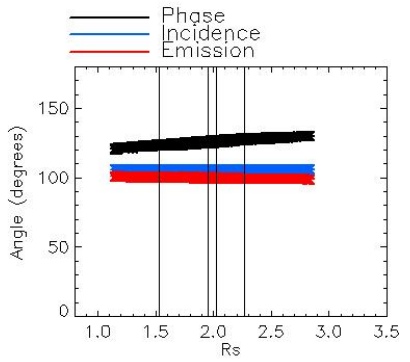
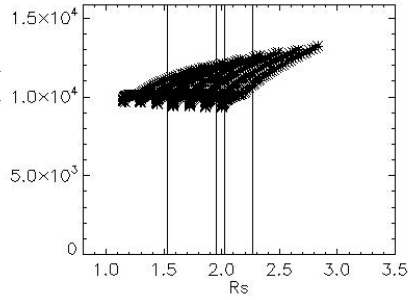
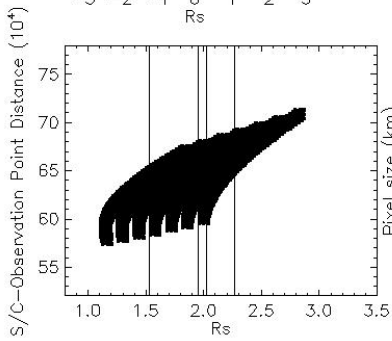


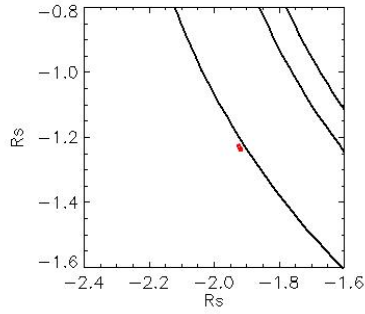
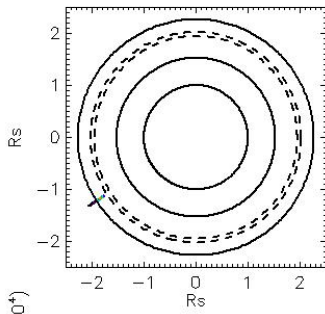
Observation Name:
UVS_028RLTEMP001_CIRS

Observation Date:
2006_252_01_04_58

Observation Duration:
4200 S

Integration time = 600 S



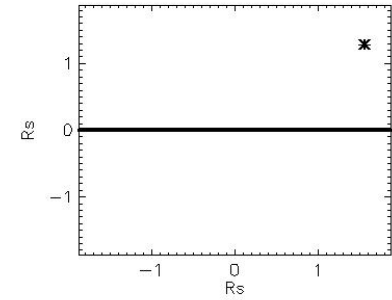
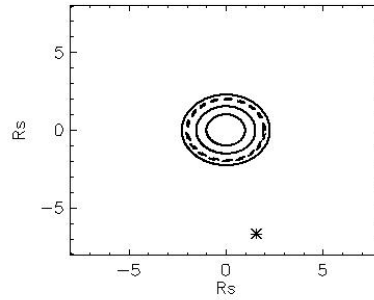
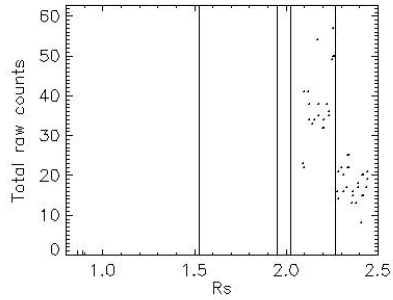
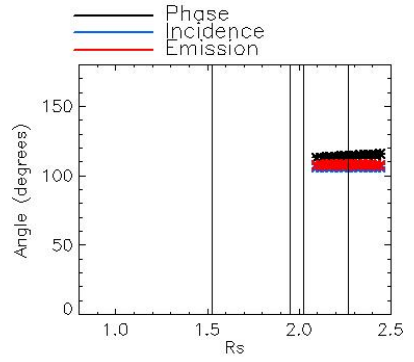
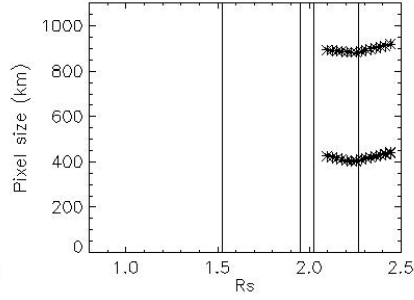
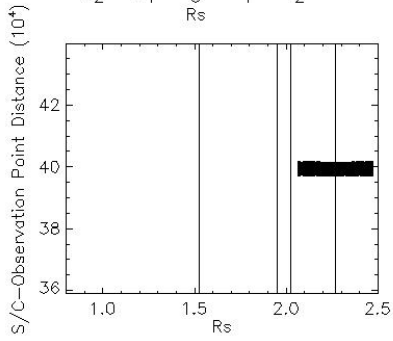


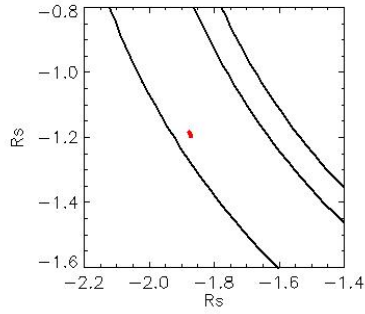
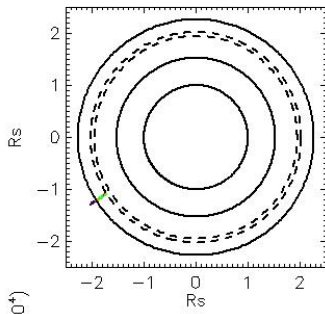
Observation Name:
UMS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_08_38_16

Observation Duration:
120 S

Integration time = 40 S



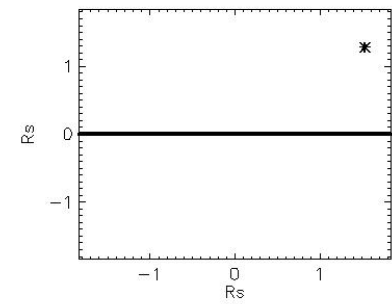
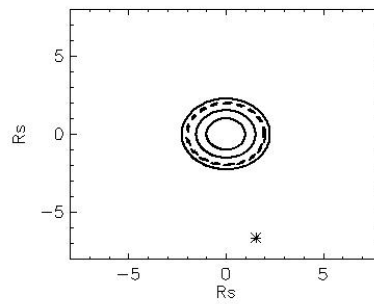
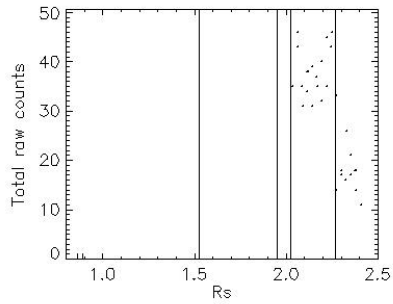
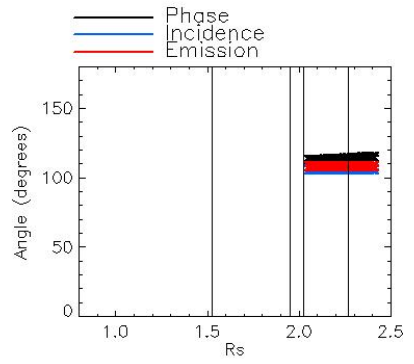
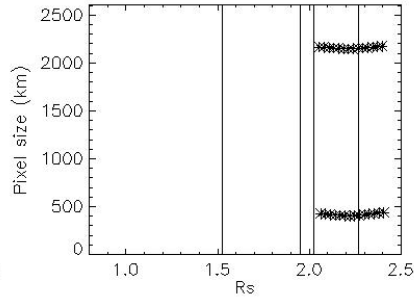
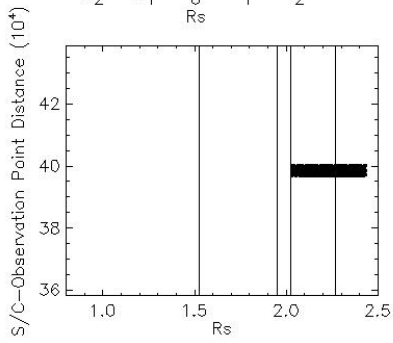


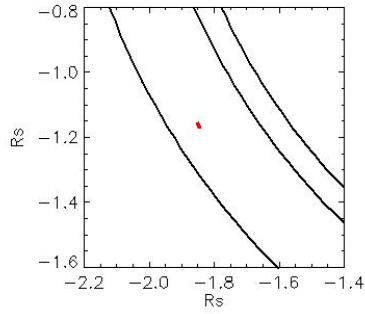
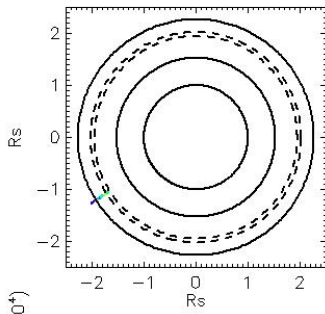
Observation Name:
UMS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_08_40_59

Observation Duration:
80 S

Integration time = 40 S



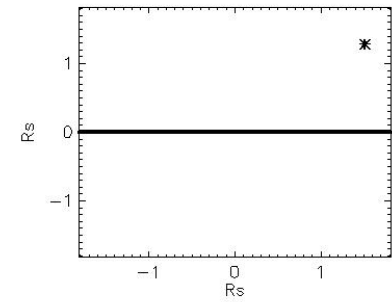
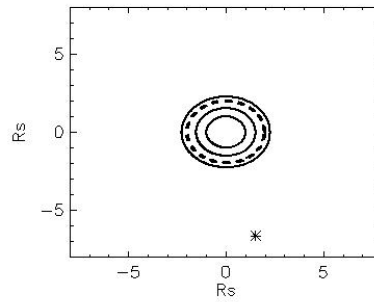
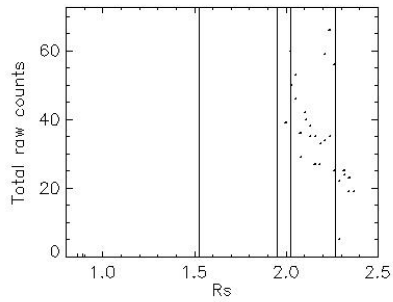
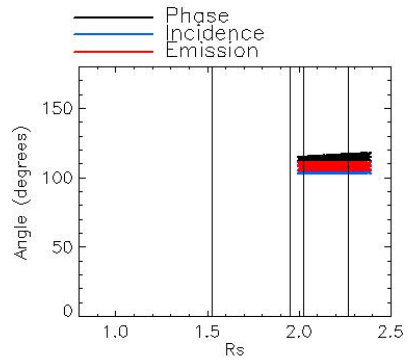
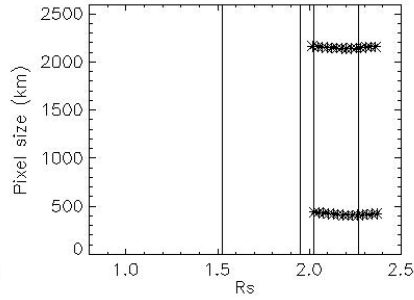
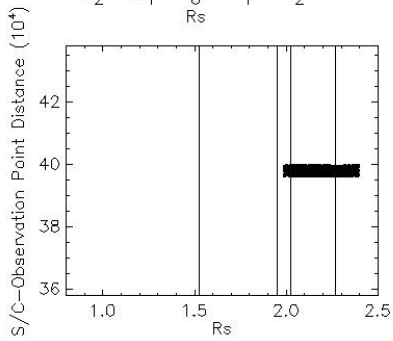


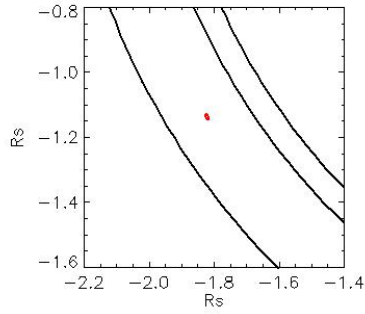
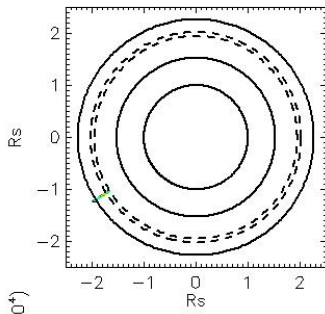
Observation Name:
UMS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_08_42_42

Observation Duration:
80 S

Integration time = 40 S



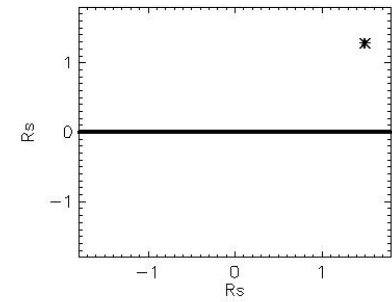
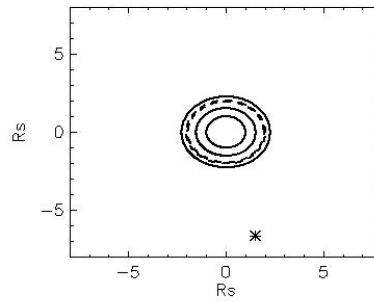
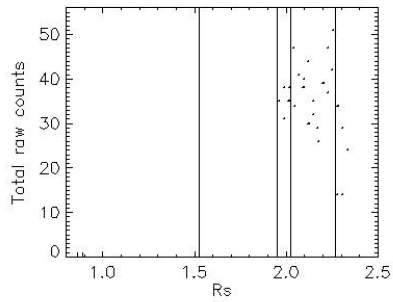
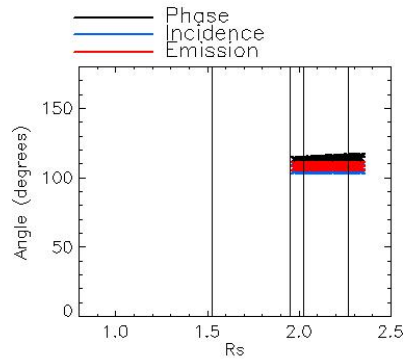
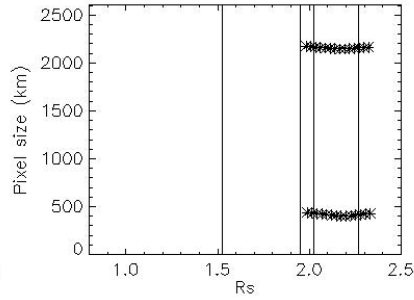
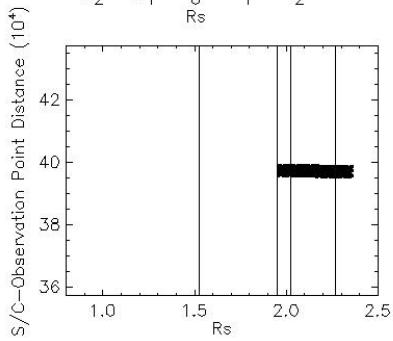


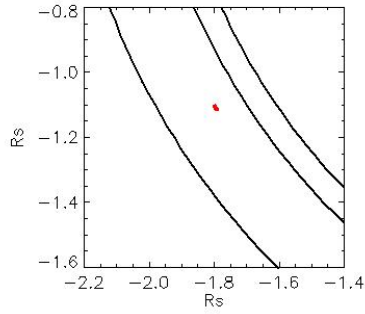
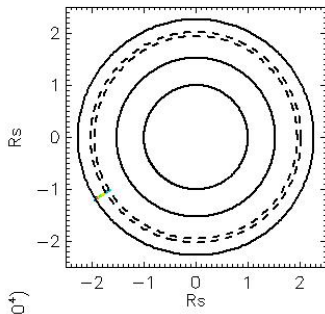
Observation Name:
UMS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_08_44_25

Observation Duration:
80 S

Integration time = 40 S



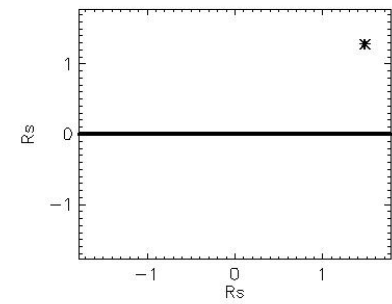
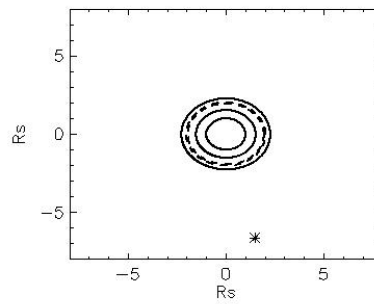
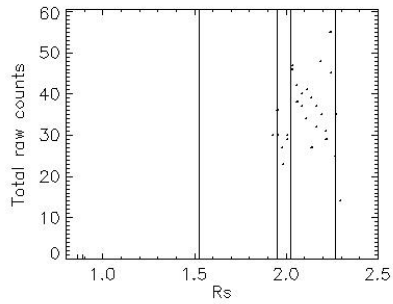
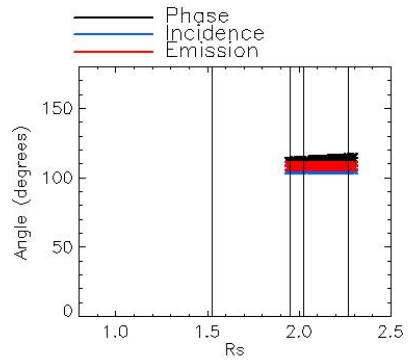
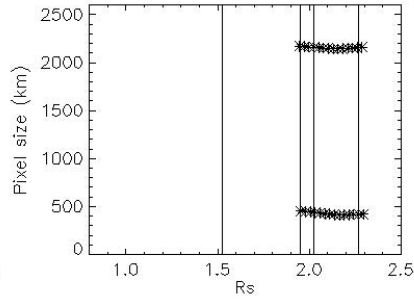
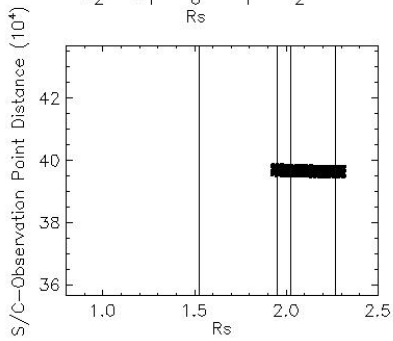


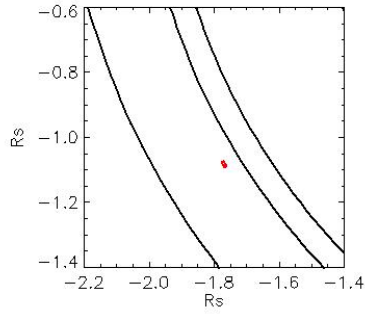
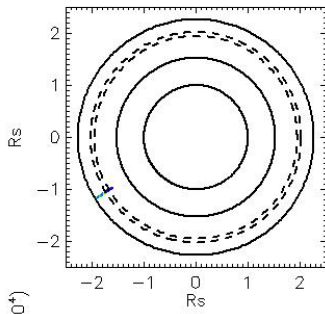
Observation Name:
UMS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_08_46_08

Observation Duration:
80 S

Integration time = 40 S



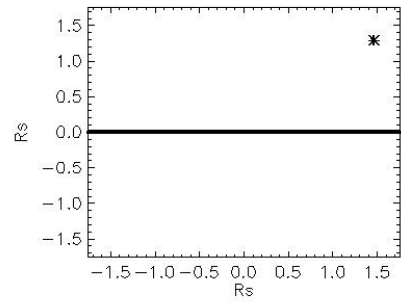
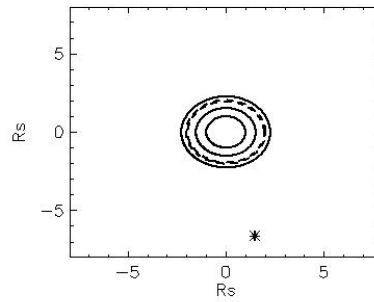
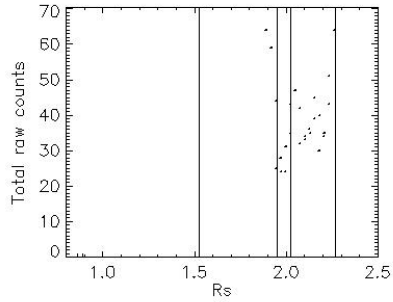
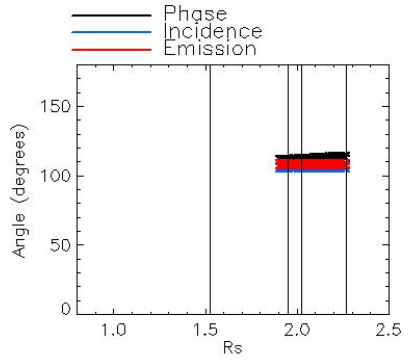
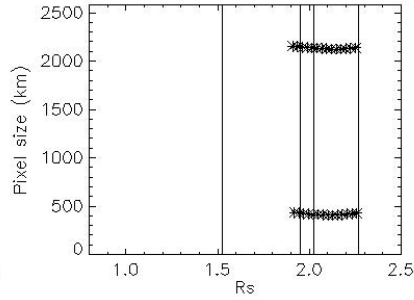
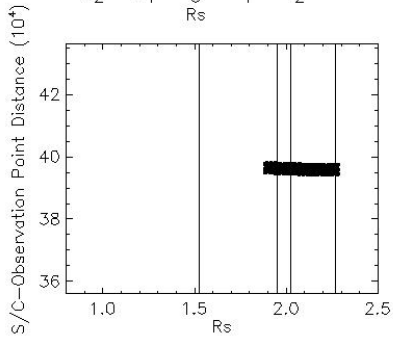


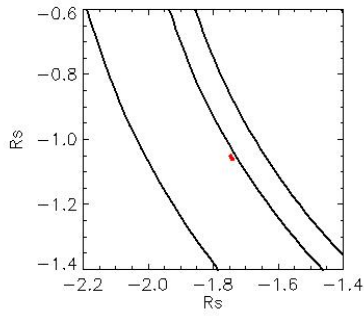
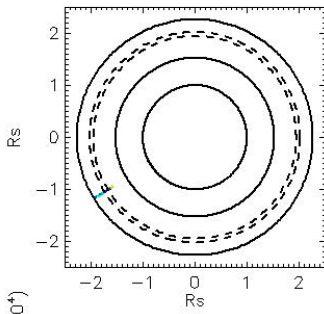
Observation Name:
UMS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_08_47_51

Observation Duration:
80 S

Integration time = 40 S



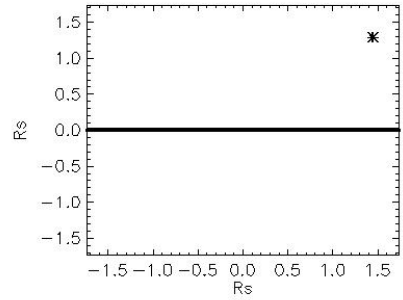
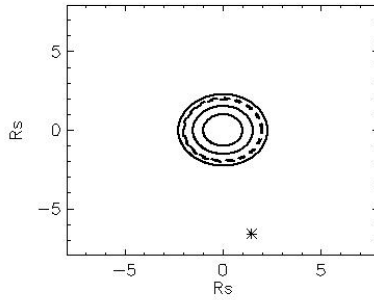
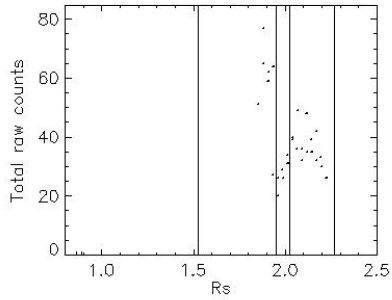
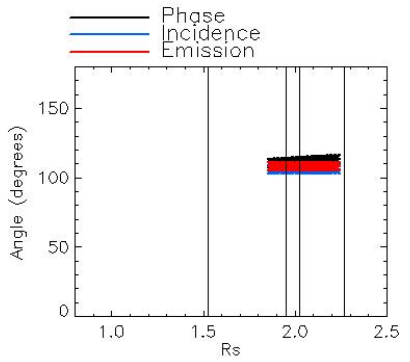
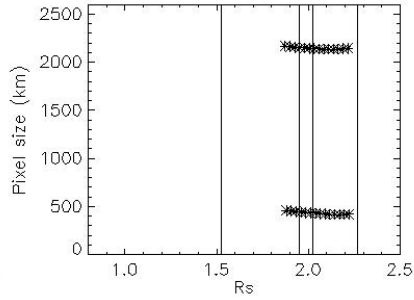
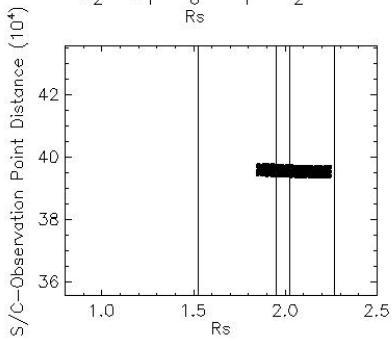


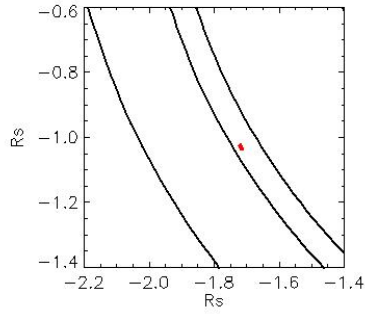
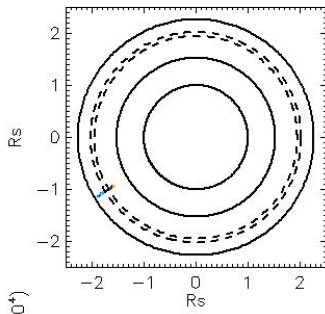
Observation Name:
UMS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_08_49_34

Observation Duration:
80 S

Integration time = 40 S



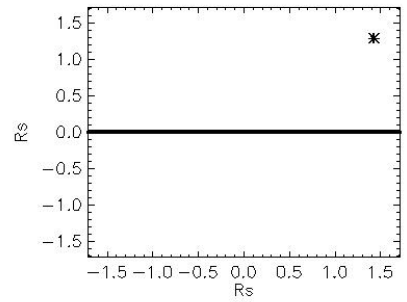
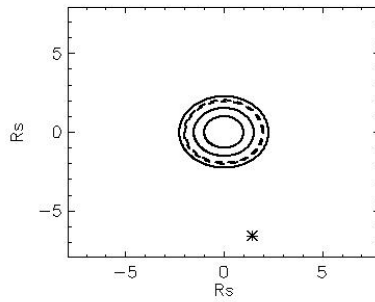
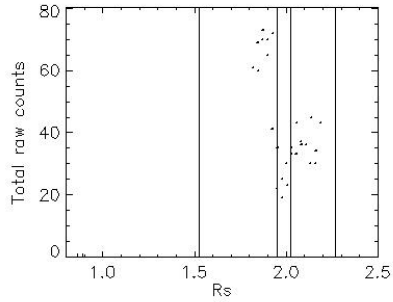
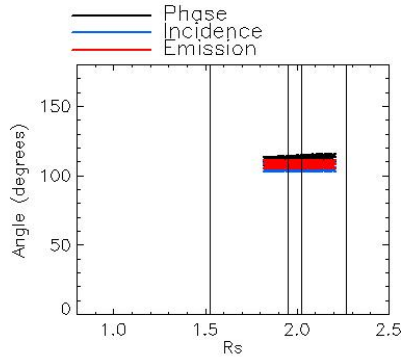
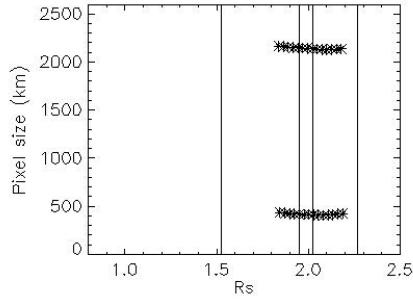
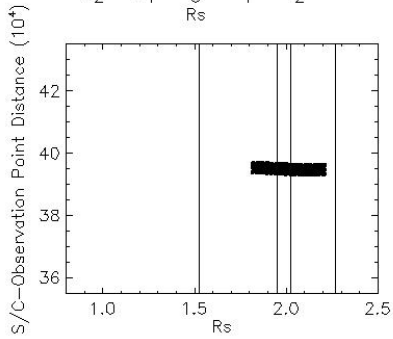


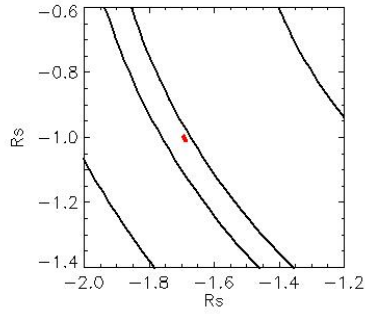
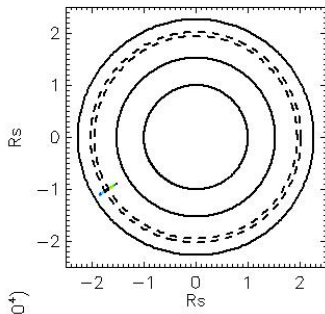
Observation Name:
UMS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_08_51_17

Observation Duration:
80 S

Integration time = 40 S



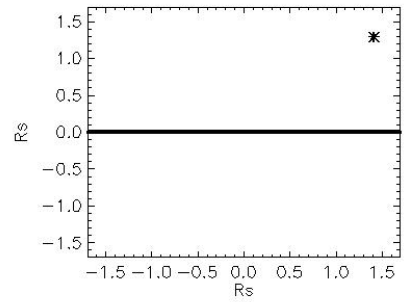
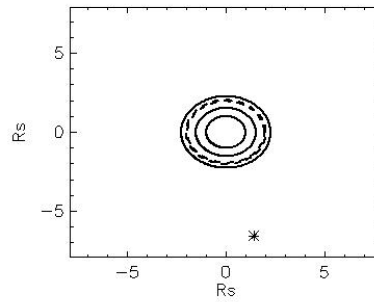
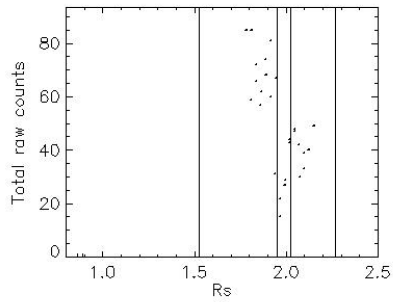
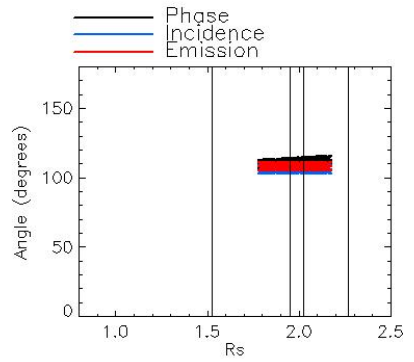
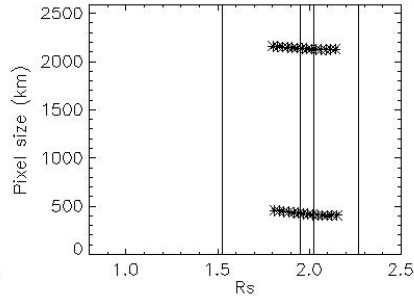
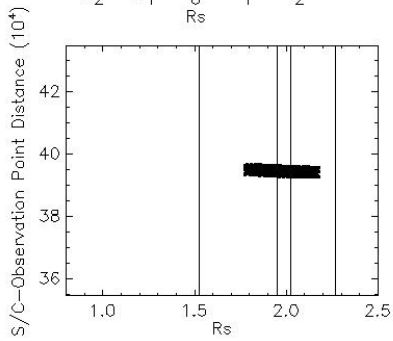


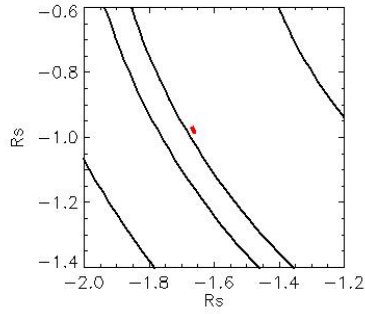
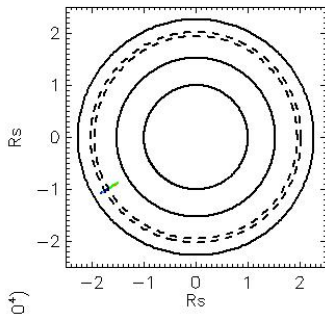
Observation Name:
UMS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_08_53_01

Observation Duration:
80 S

Integration time = 40 S



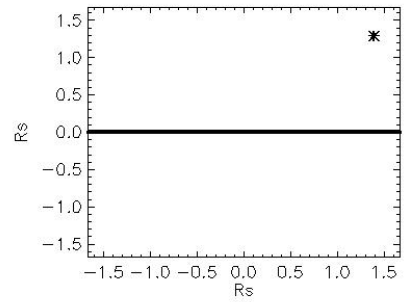
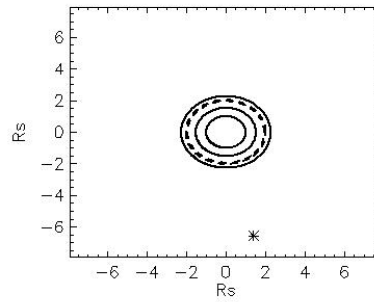
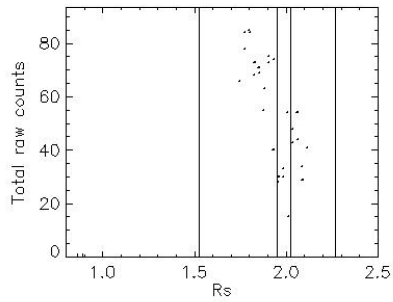
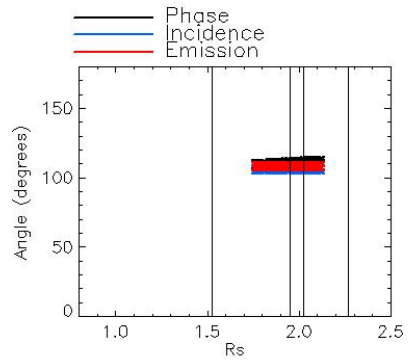
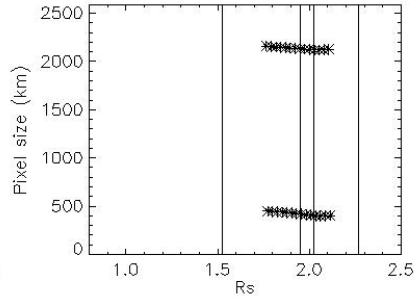
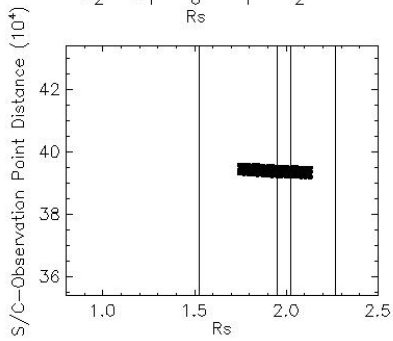


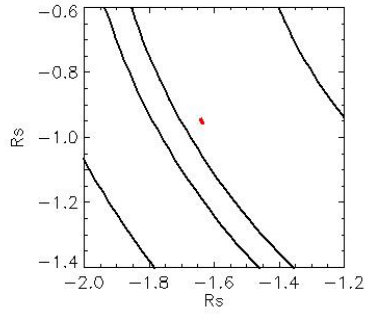
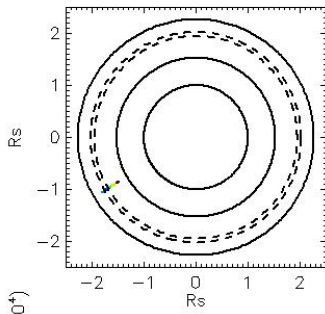
Observation Name:
UMS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_08_54_45

Observation Duration:
80 S

Integration time = 40 S



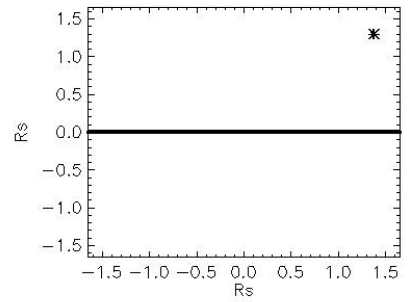
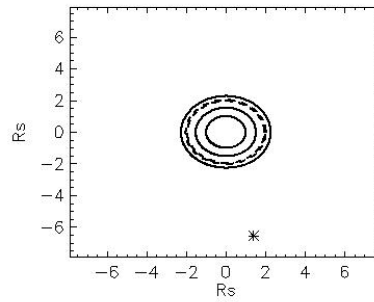
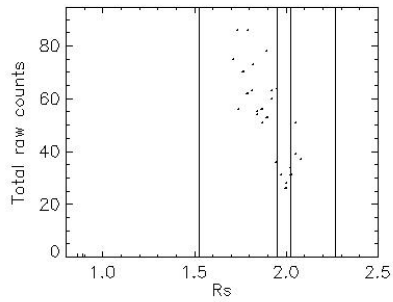
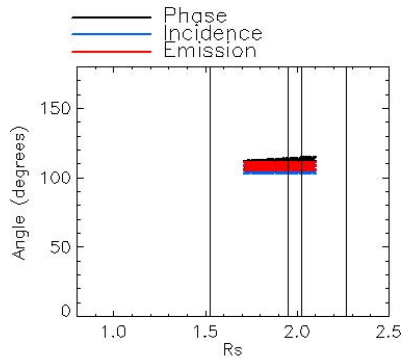
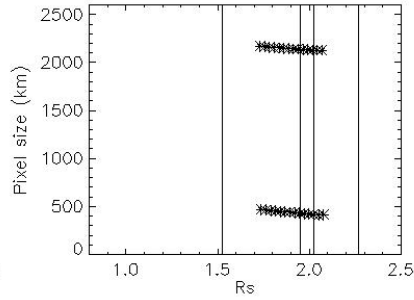
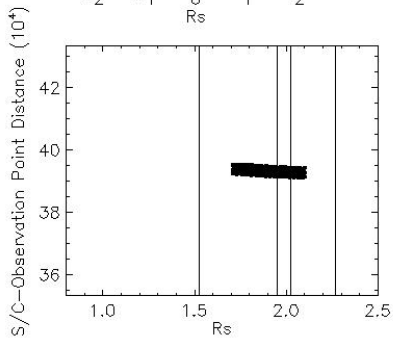


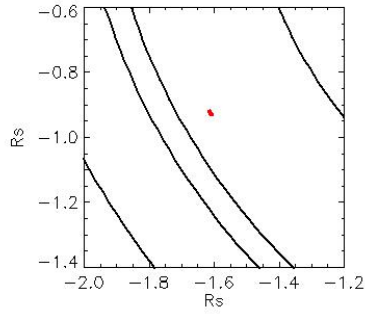
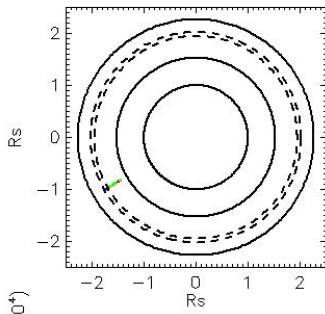
Observation Name:
UMS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_08_56_29

Observation Duration:
80 S

Integration time = 40 S



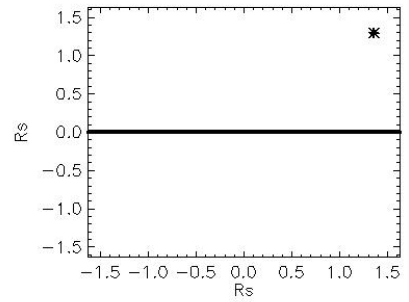
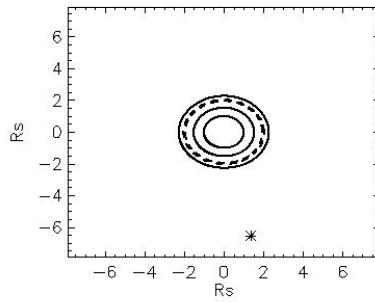
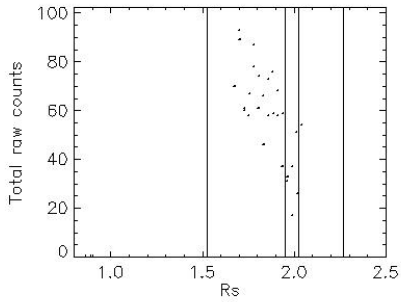
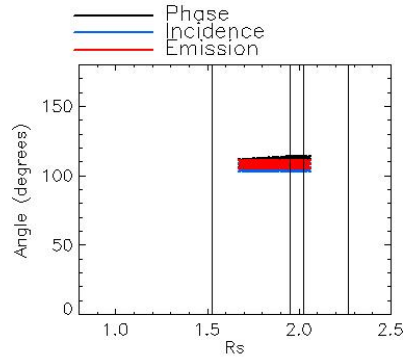
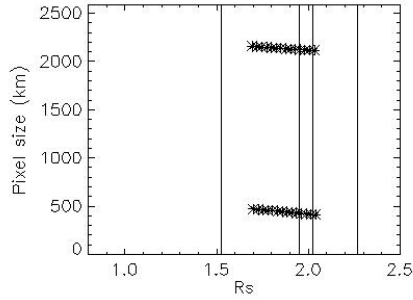
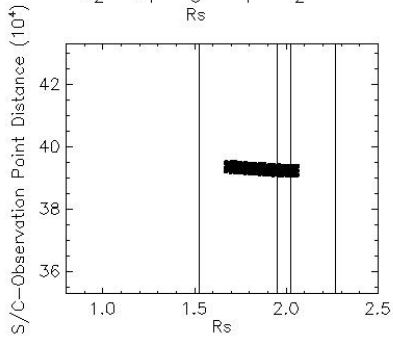


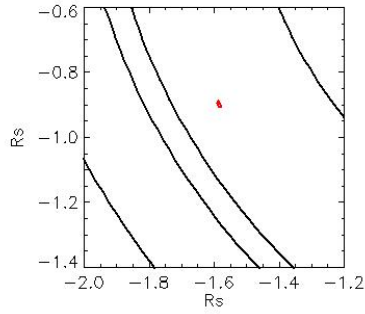
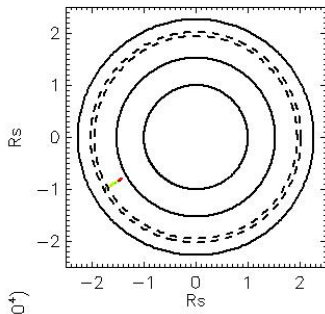
Observation Name:
UMS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_08_58_13

Observation Duration:
80 S

Integration time = 40 S



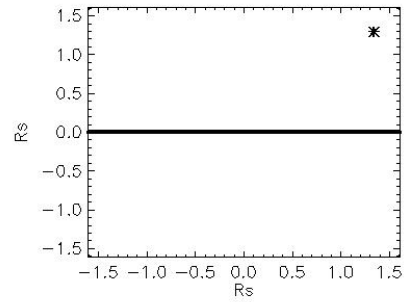
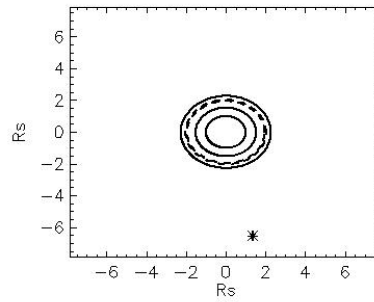
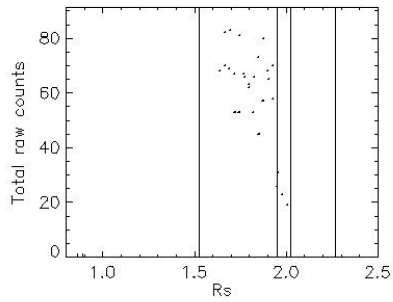
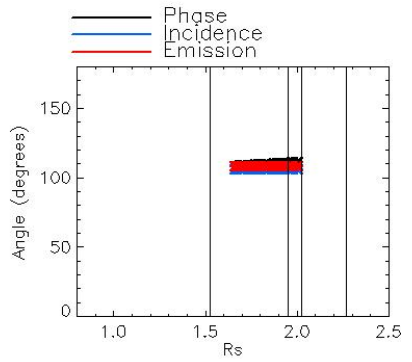
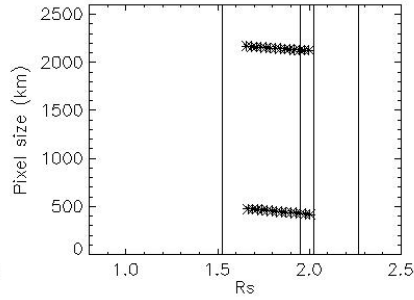
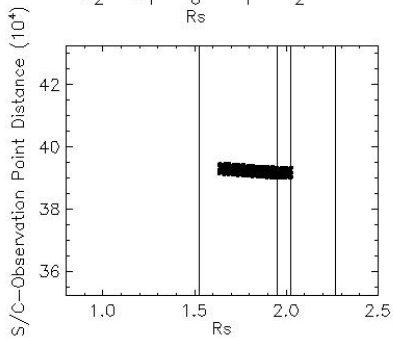


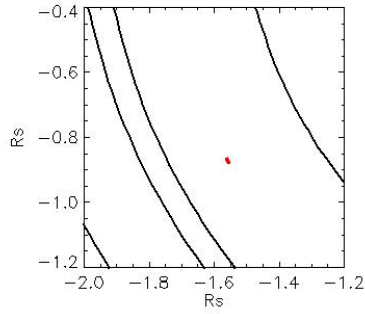
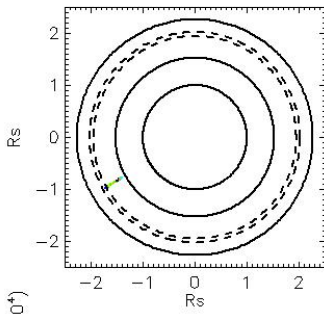
Observation Name:
UWS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_08_59_57

Observation Duration:
80 S

Integration time = 40 S



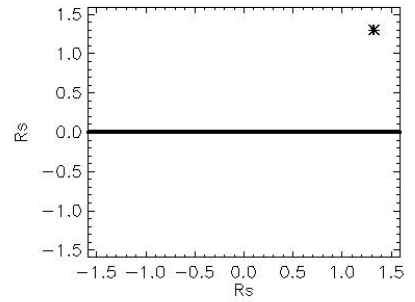
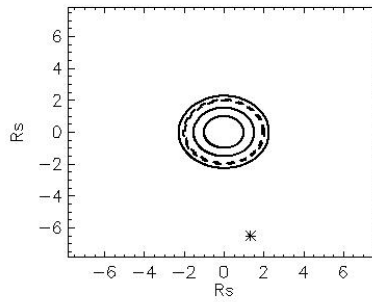
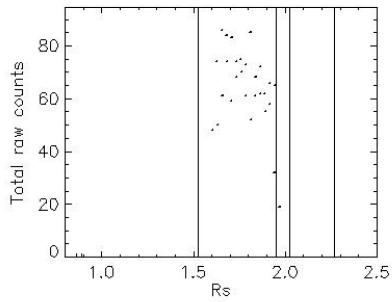
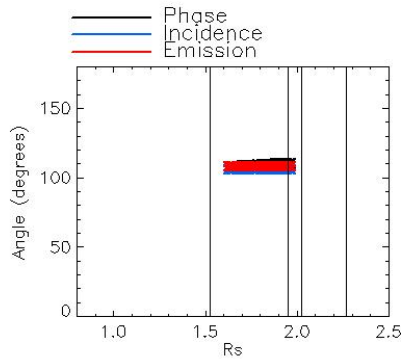
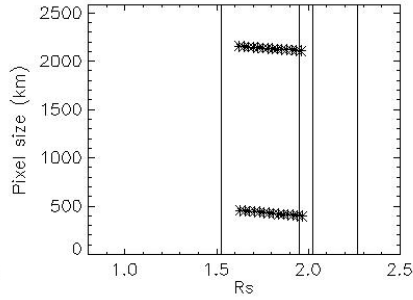
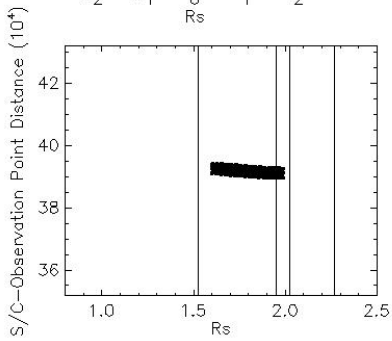


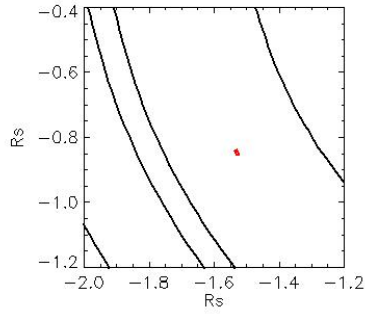
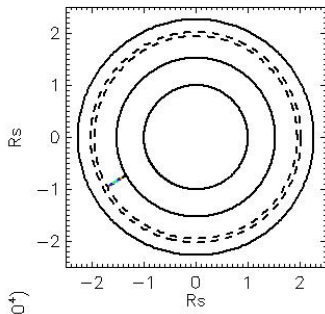
Observation Name:
UMS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_09_01_41

Observation Duration:
80 S

Integration time = 40 S



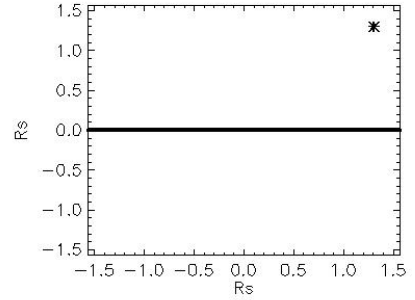
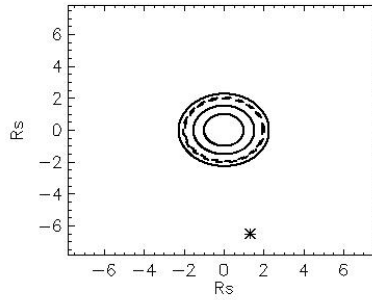
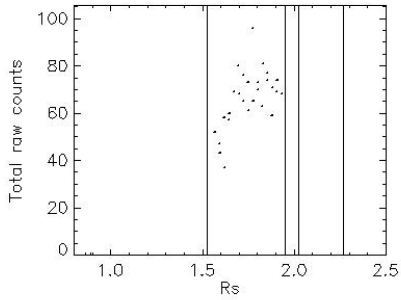
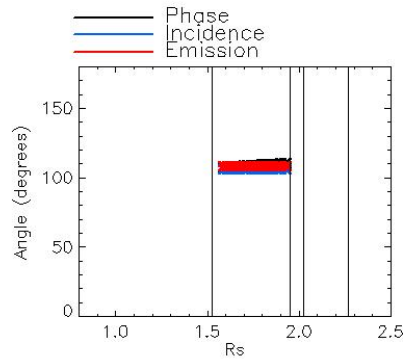
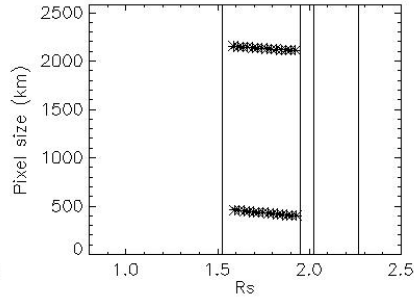
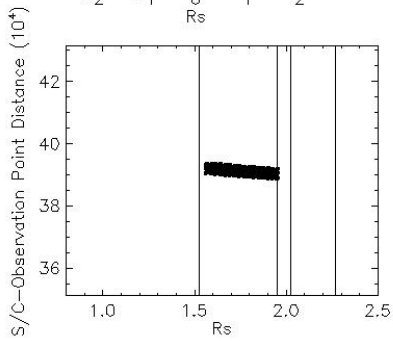


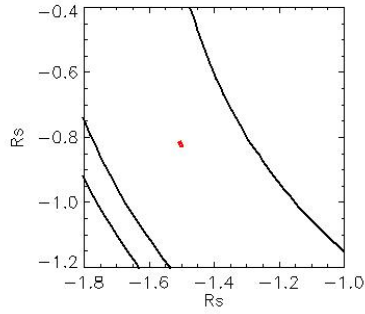
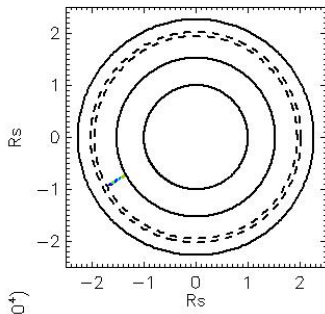
Observation Name:
UWS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_09_03_25

Observation Duration:
80 S

Integration time = 40 S



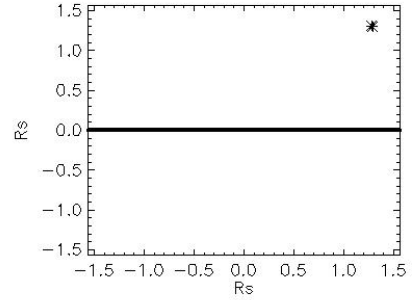
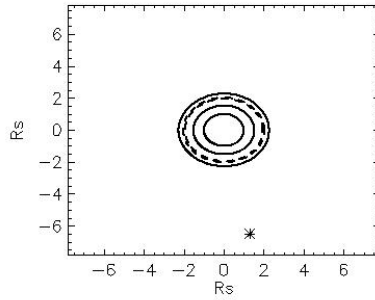
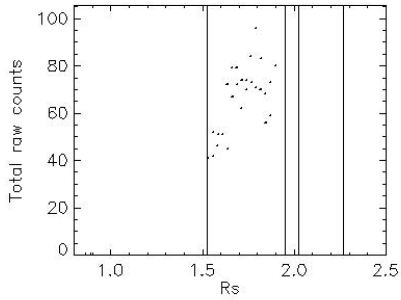
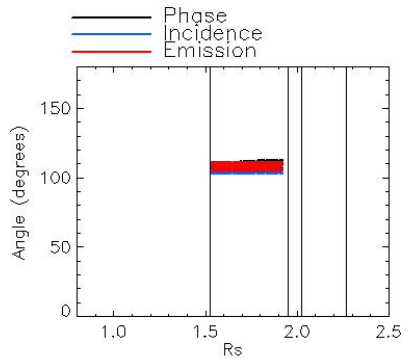
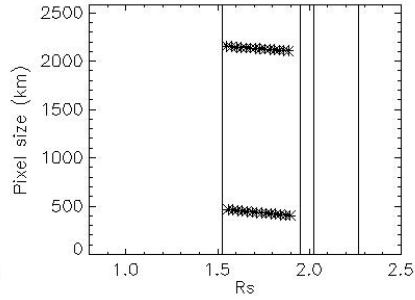
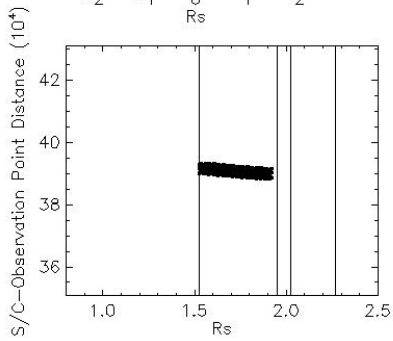


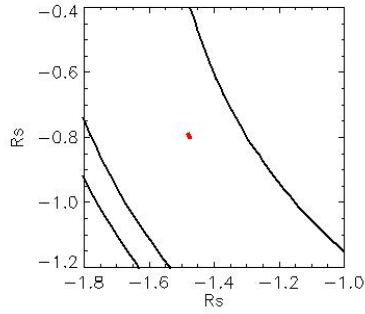
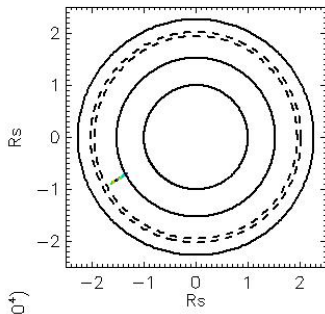
Observation Name:
UWS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_09_05_09

Observation Duration:
80 S

Integration time = 40 S



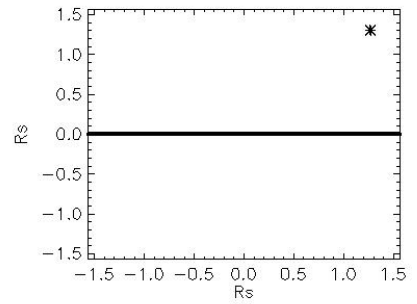
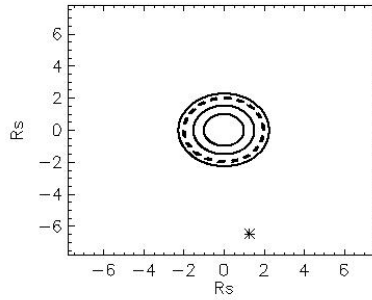
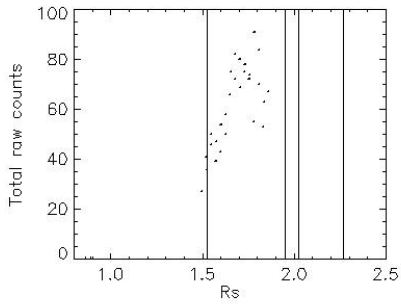
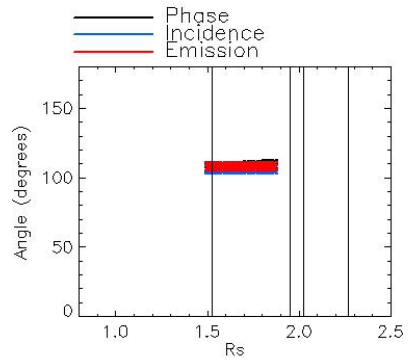
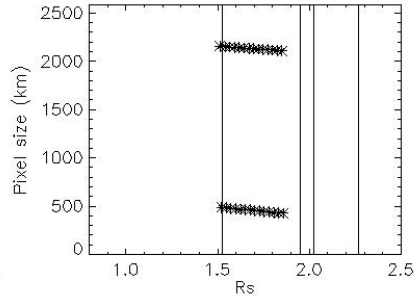
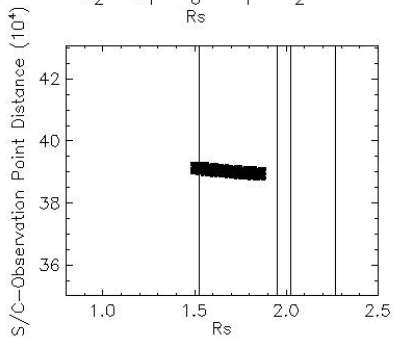


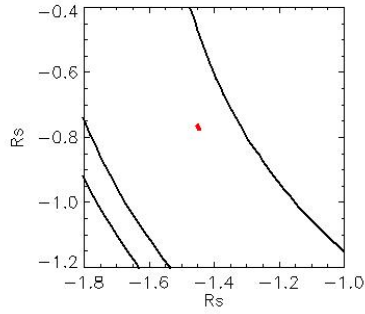
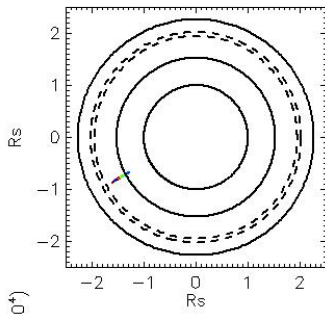
Observation Name:
UWS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_09_06_53

Observation Duration:
80 S

Integration time = 40 S



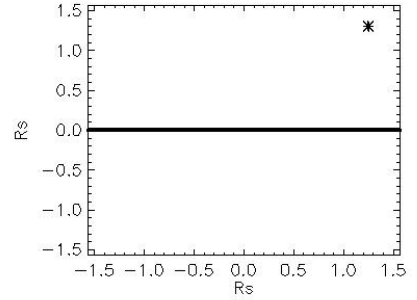
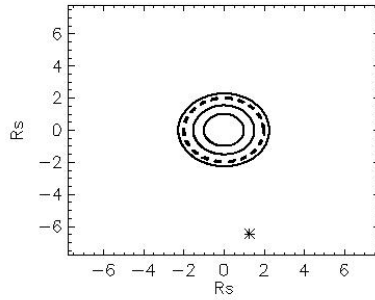
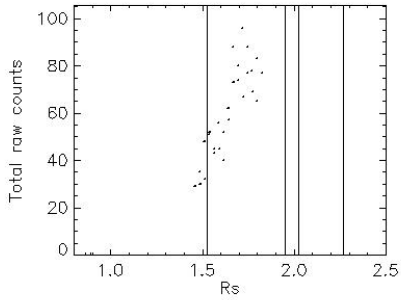
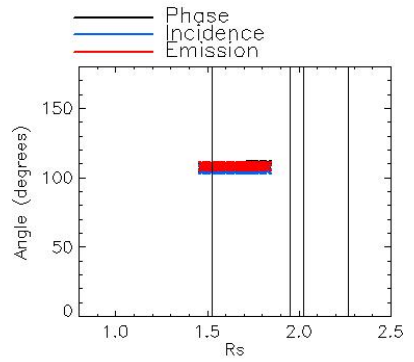
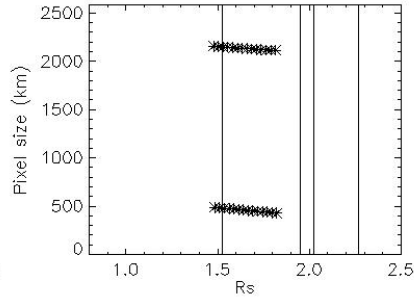
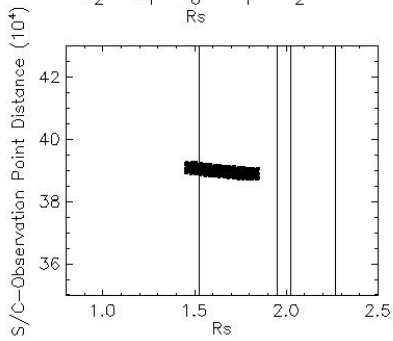


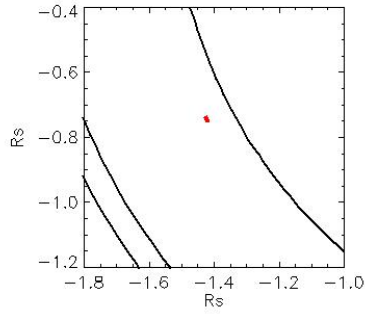
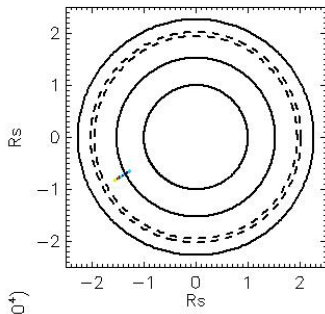
Observation Name:
UVS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_09_08_37

Observation Duration:
80 S

Integration time = 40 S



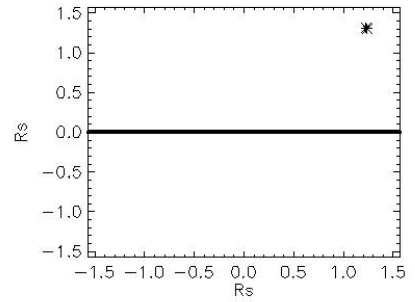
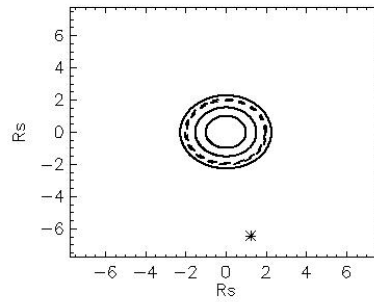
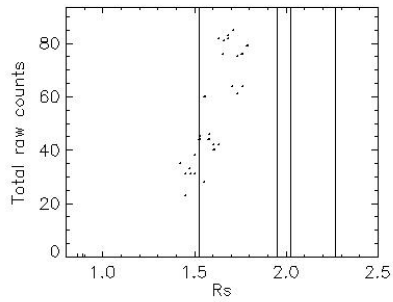
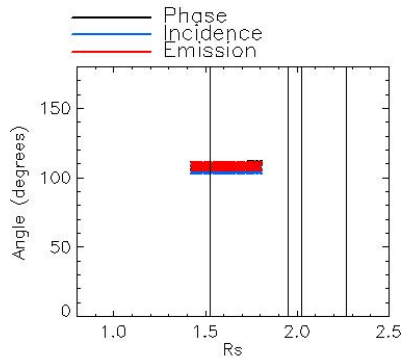
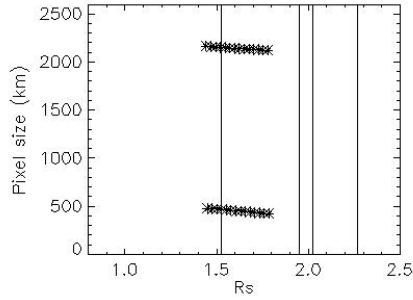
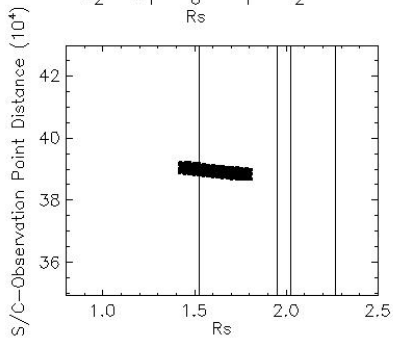


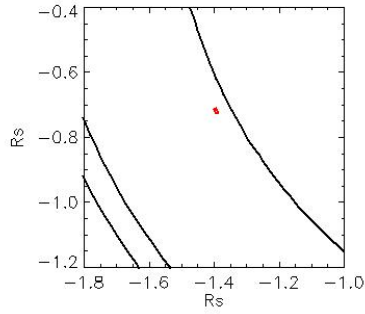
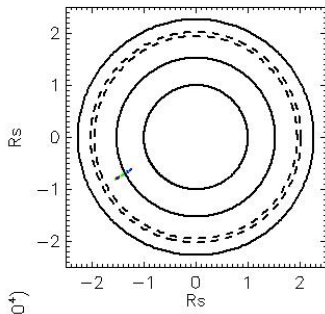
Observation Name:
UVS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_09_10_21

Observation Duration:
80 S

Integration time = 40 S



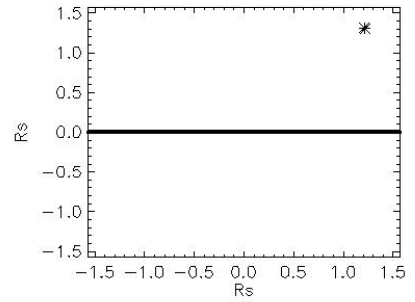
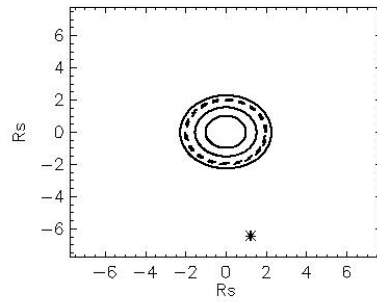
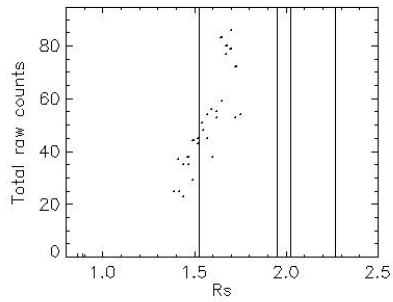
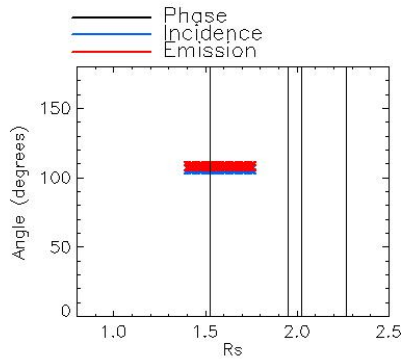
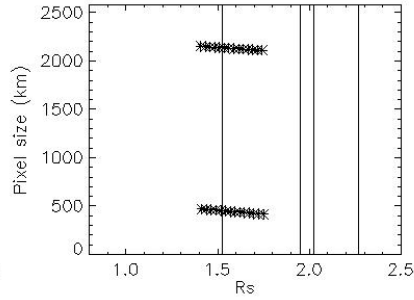
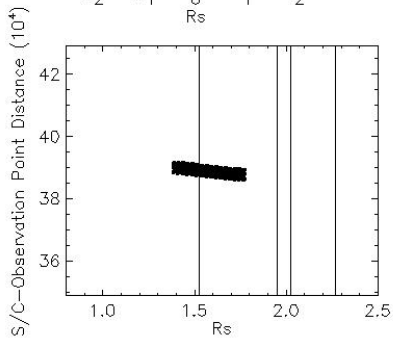


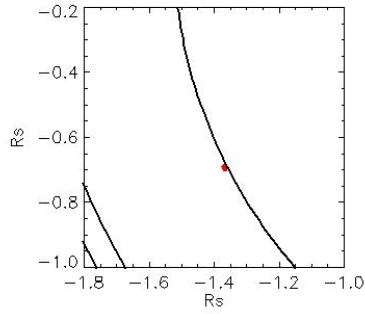
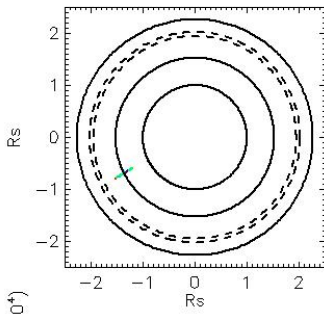
Observation Name:
UVS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_09_12_05

Observation Duration:
80 S

Integration time = 40 S



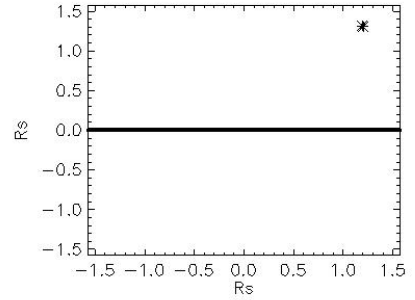
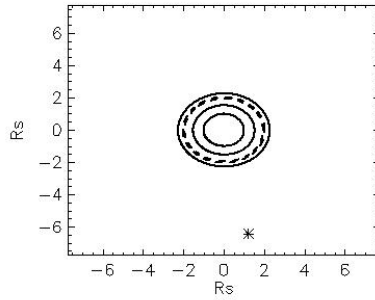
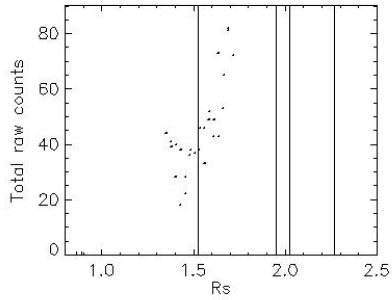
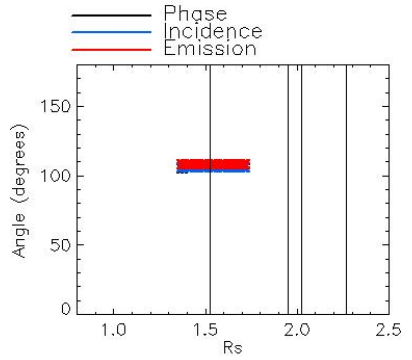
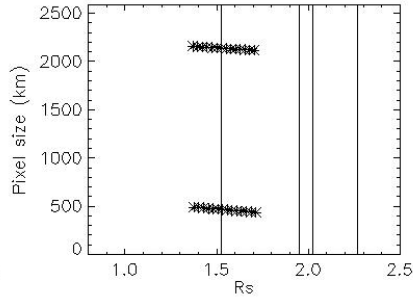
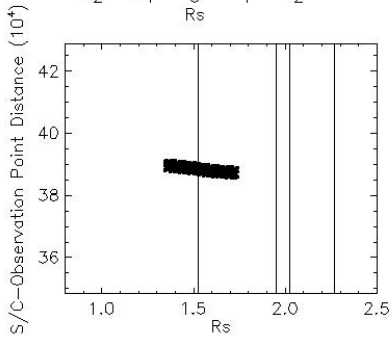


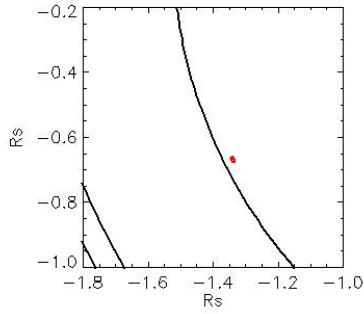
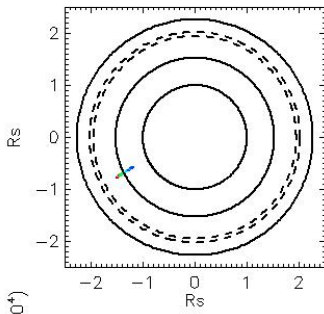
Observation Name:
UMS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_09_13_49

Observation Duration:
80 S

Integration time = 40 S



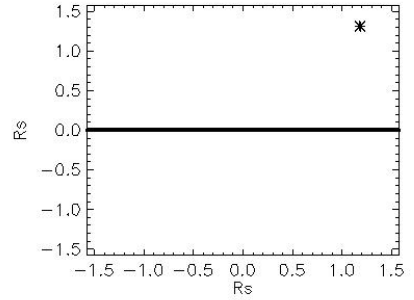
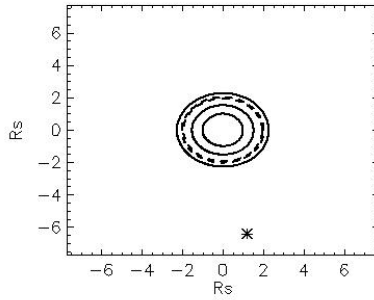
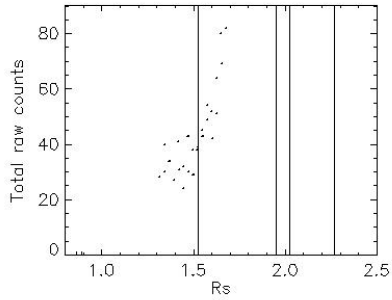
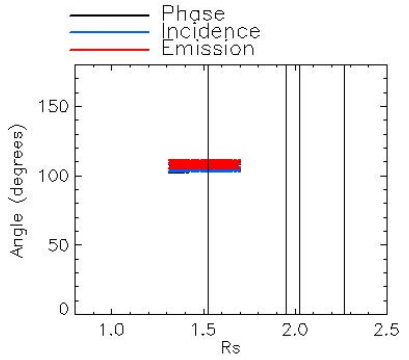
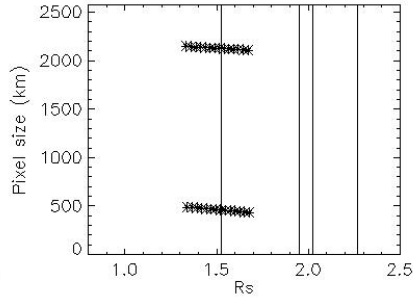
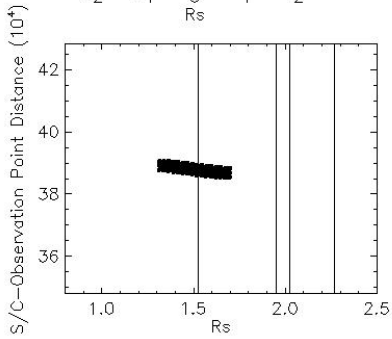


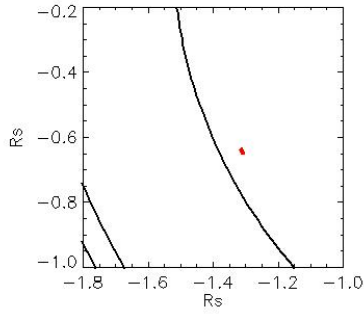
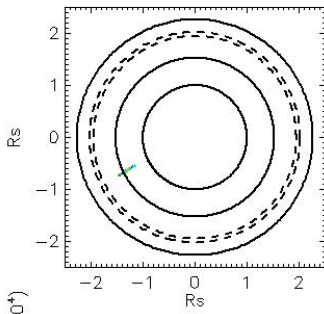
Observation Name:
UVS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_09_15_34

Observation Duration:
80 S

Integration time = 40 S



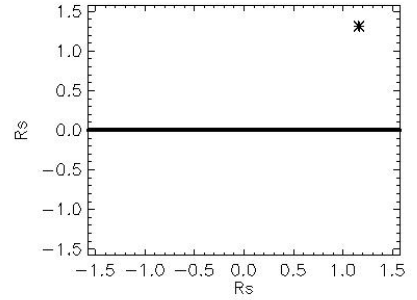
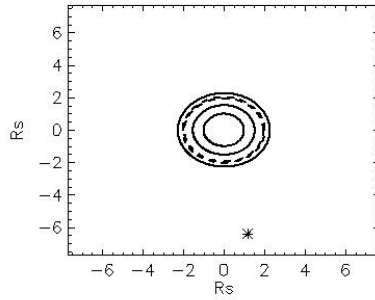
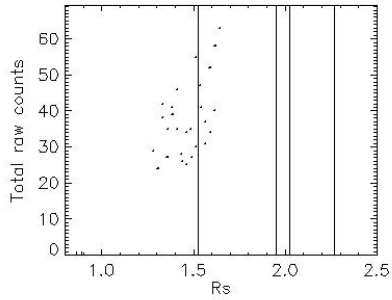
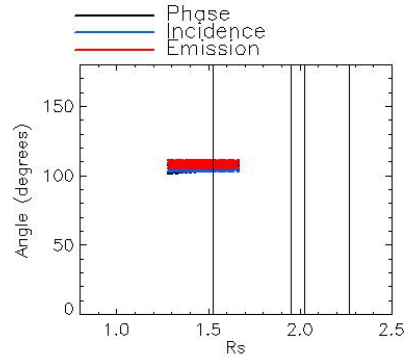
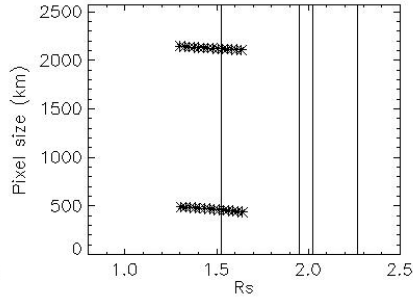
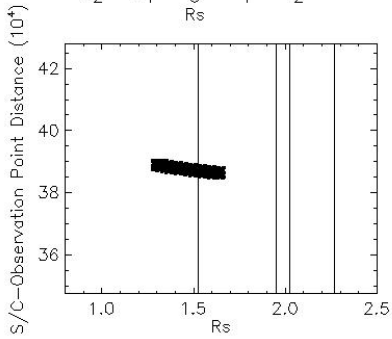


Observation Name:
UVS_028RLRDHRESSCN001_ISS_1

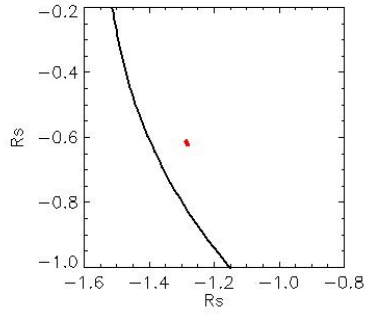
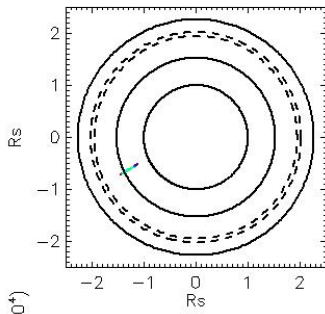
Observation Date:
2006_252_09_17_19

Observation Duration:
80 S

Integration time = 40 S



— Phase
— Incidence
— Emission

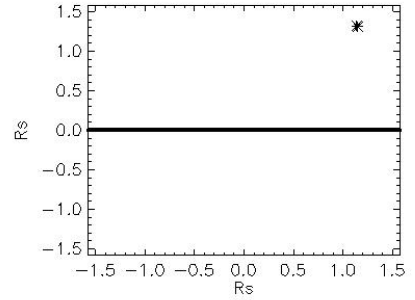
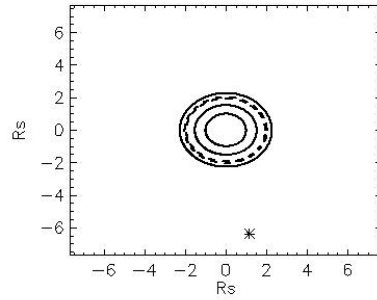
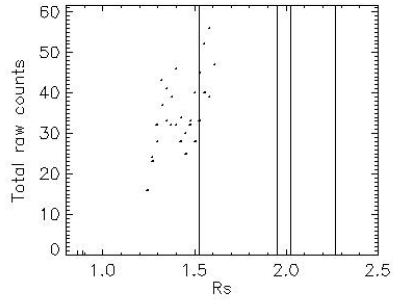
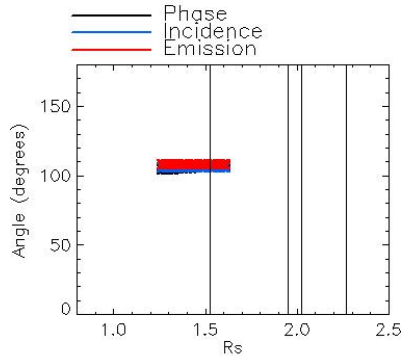
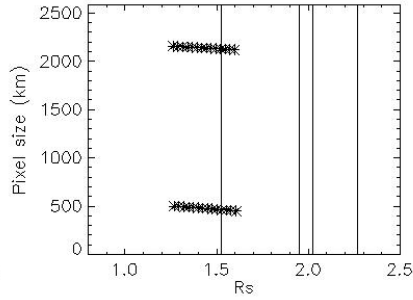
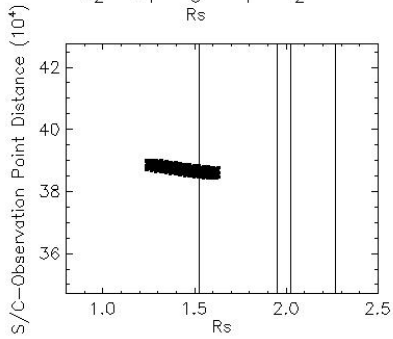


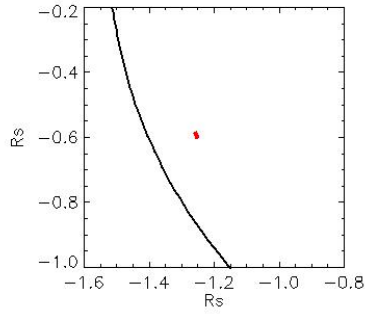
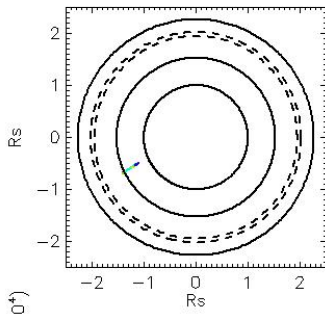
Observation Name:
UMS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_09_19_04

Observation Duration:
80 S

Integration time = 40 S



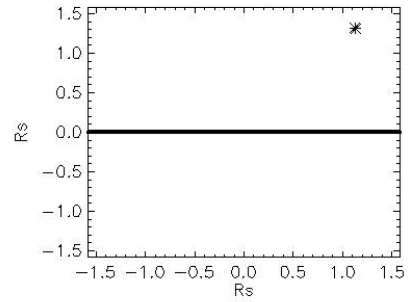
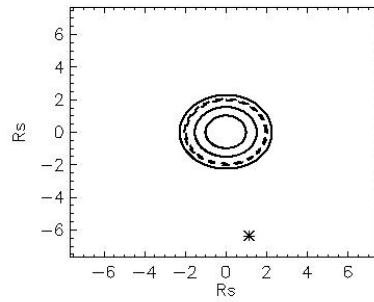
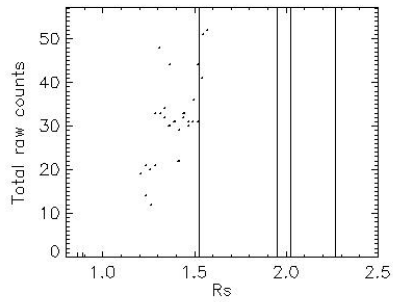
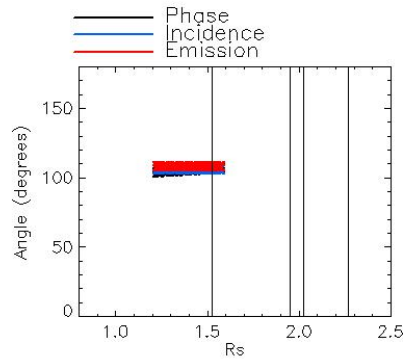
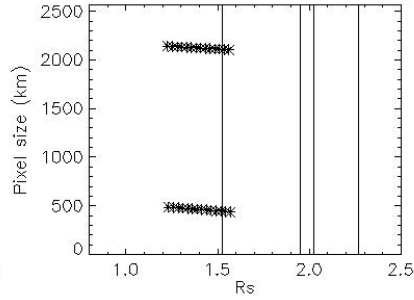
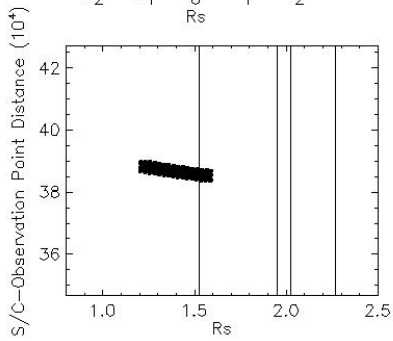


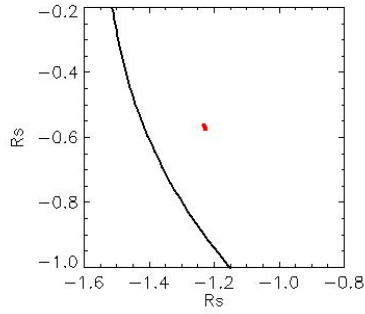
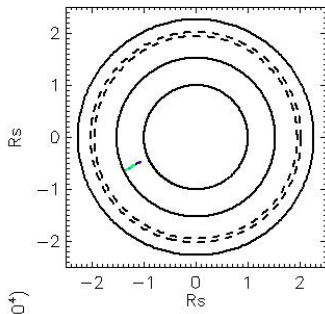
Observation Name:
UMS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_09_20_49

Observation Duration:
80 S

Integration time = 40 S



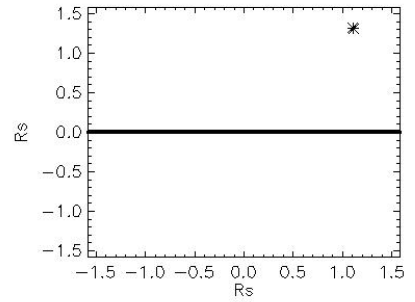
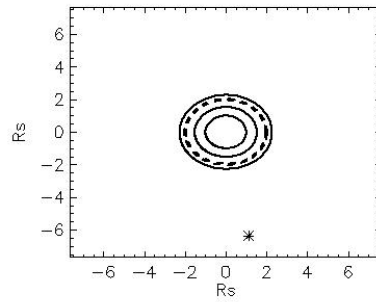
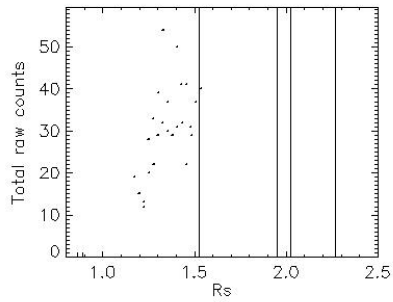
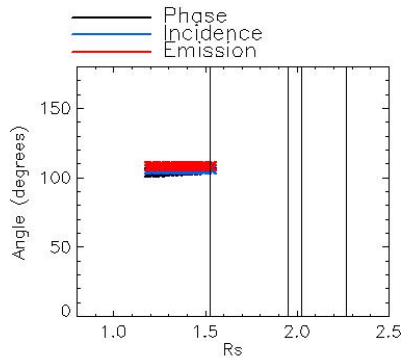
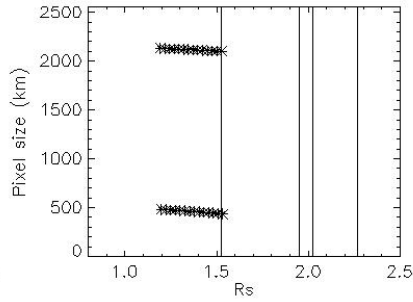
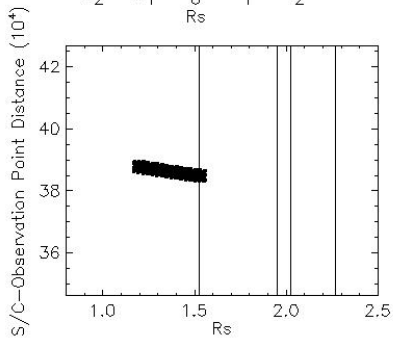


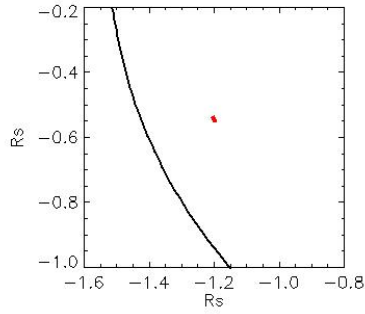
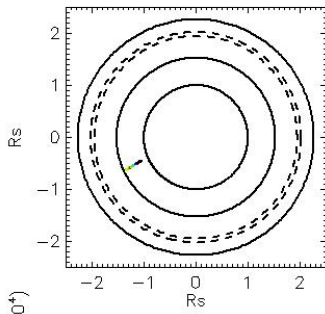
Observation Name:
UMS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_09_22_34

Observation Duration:
80 S

Integration time = 40 S



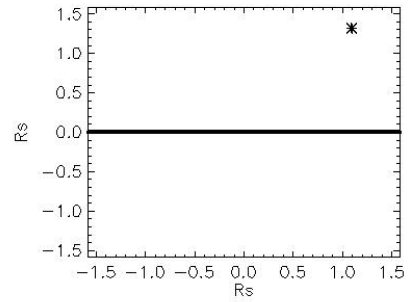
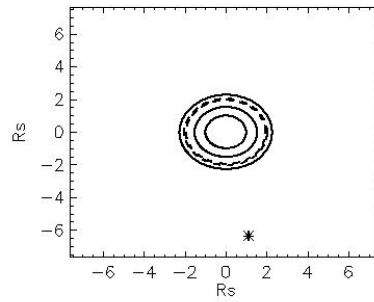
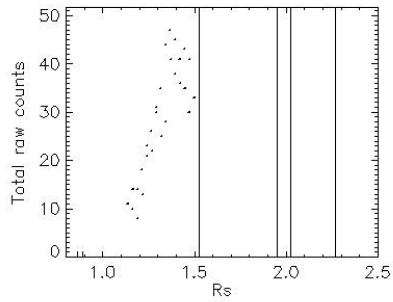
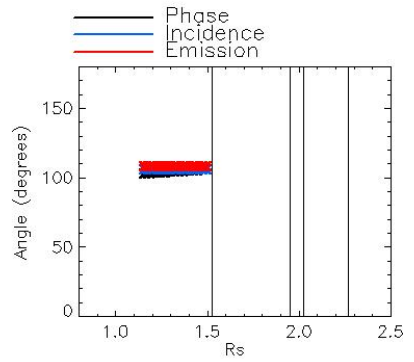
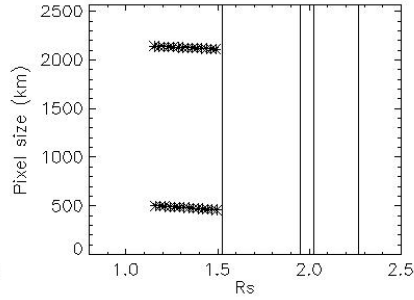
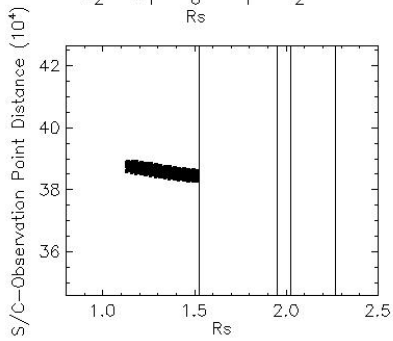


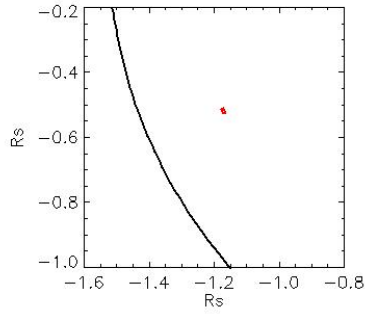
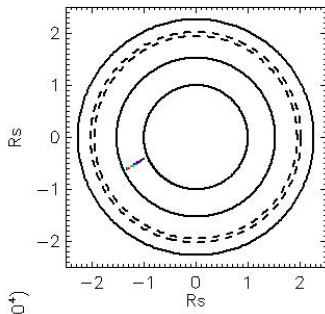
Observation Name:
UMS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_09_24_19

Observation Duration:
80 S

Integration time = 40 S



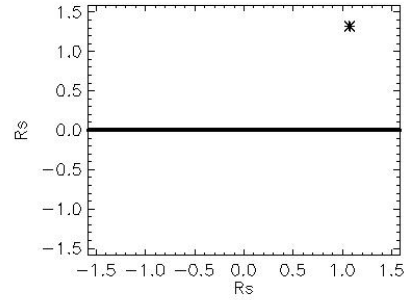
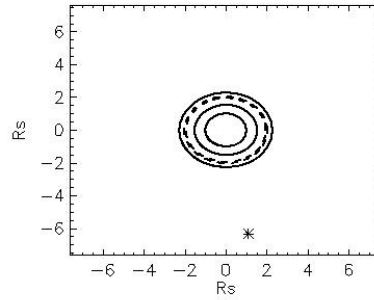
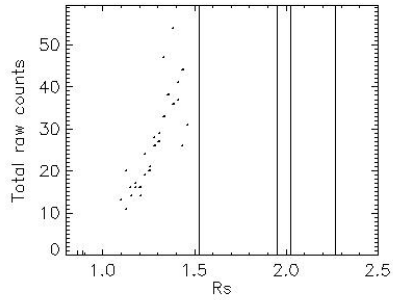
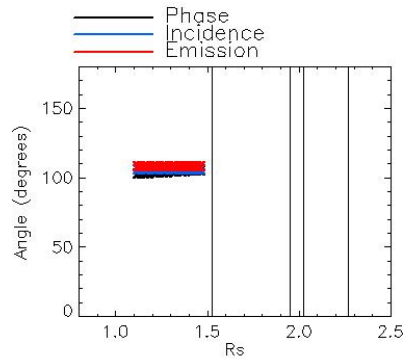
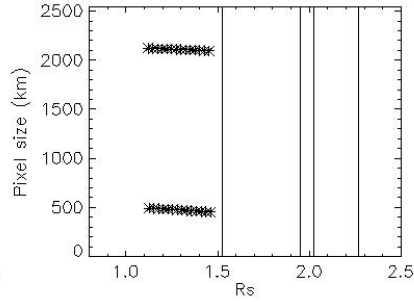
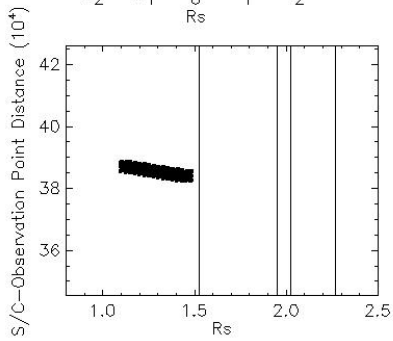


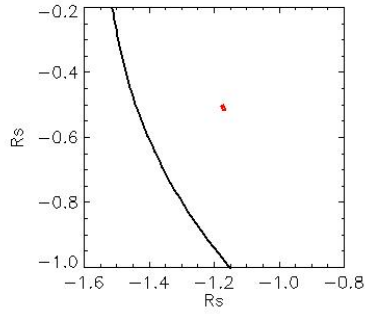
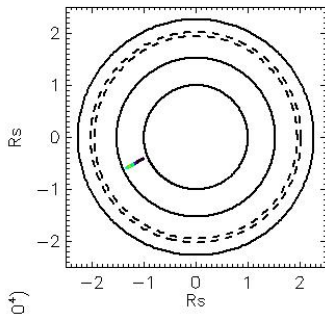
Observation Name:
UMS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_09_26_04

Observation Duration:
80 S

Integration time = 40 S



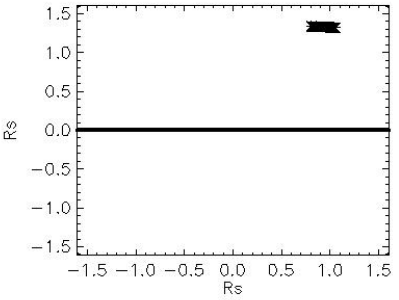
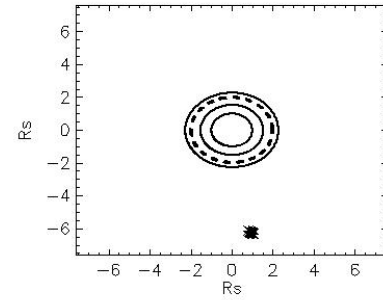
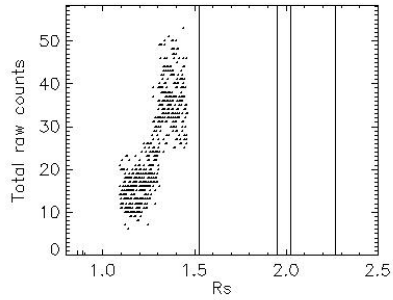
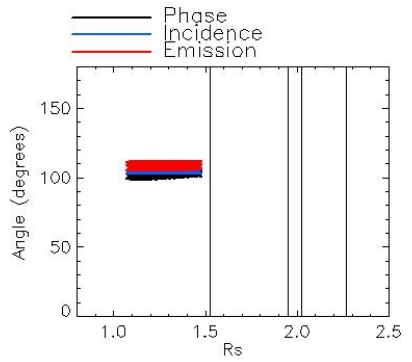
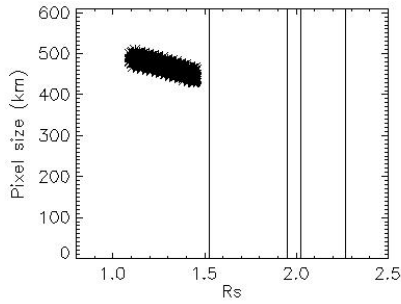
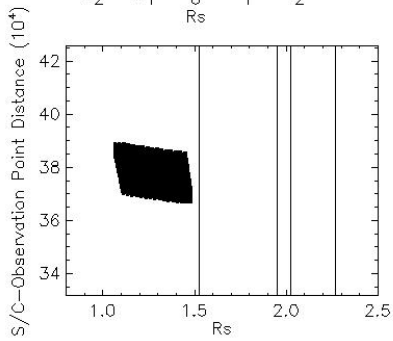


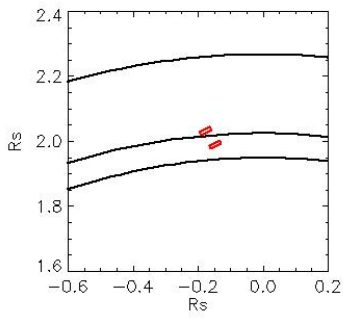
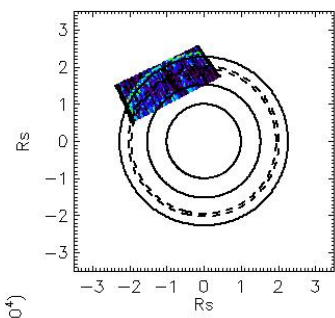
Observation Name:
UMS_028RLRDHRESSCN001_ISS_1

Observation Date:
2006_252_09_27_49

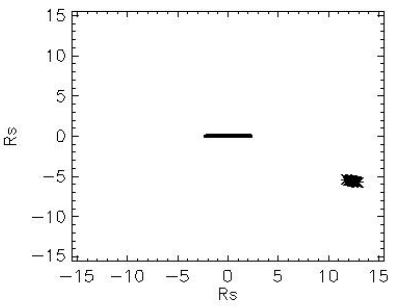
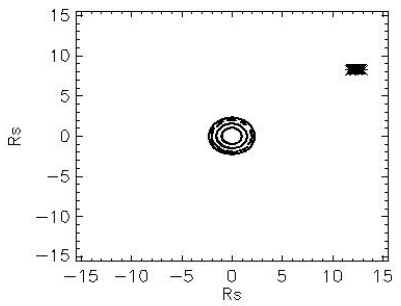
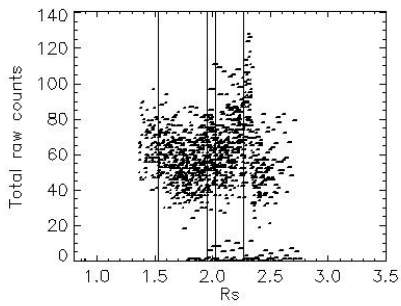
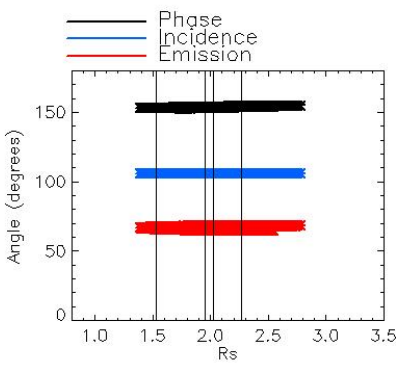
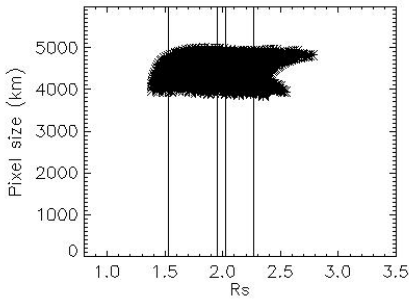
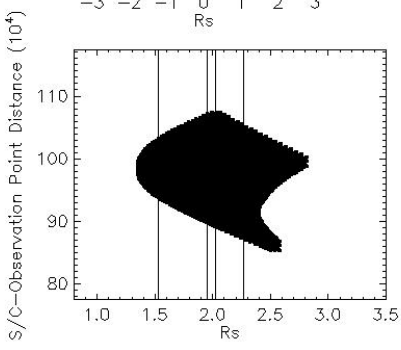
Observation Duration:
1520 S

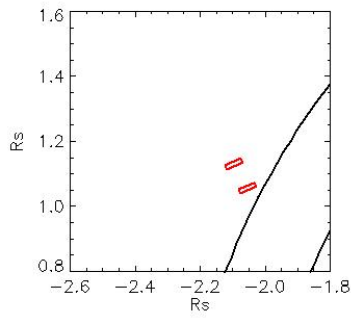
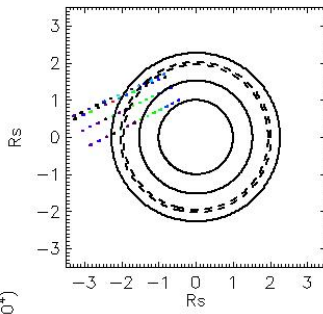
Integration time = 40 S





Observation Name:
 UVS_028RLTEMPU22HP001_CIRS
 Observation Date:
 2006_253_22_00_05
 Observation Duration:
 11400 S
 Integration time = 600 S



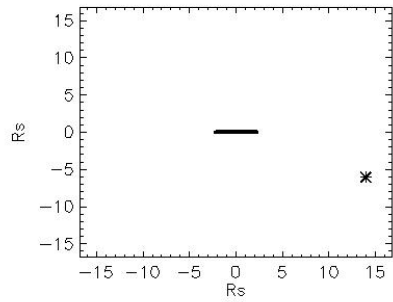
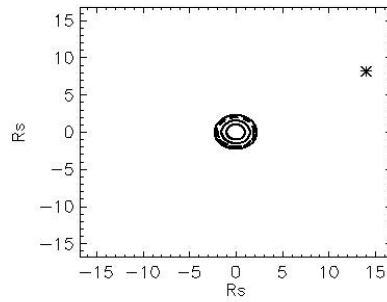
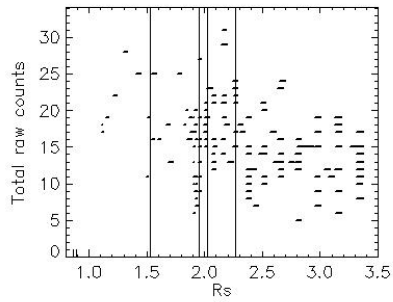
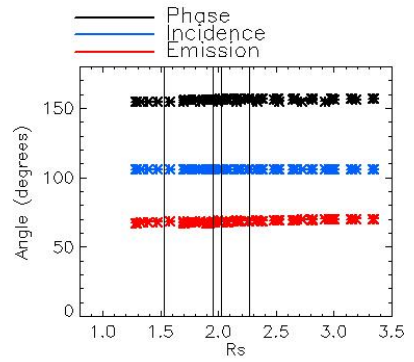
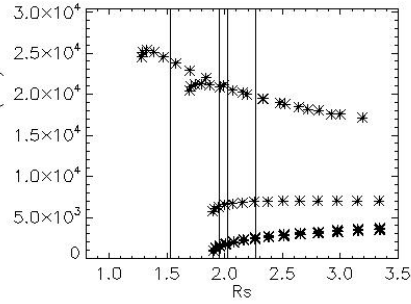
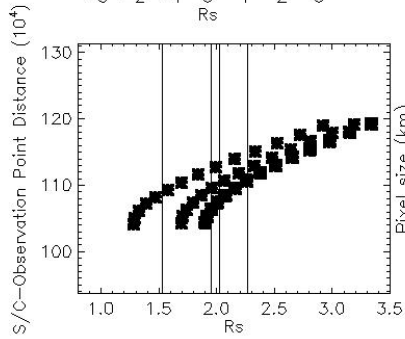


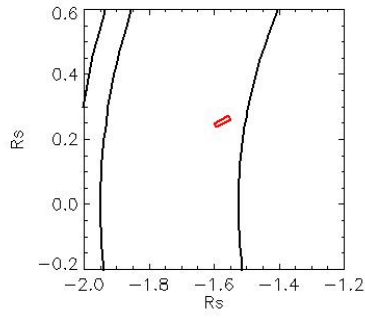
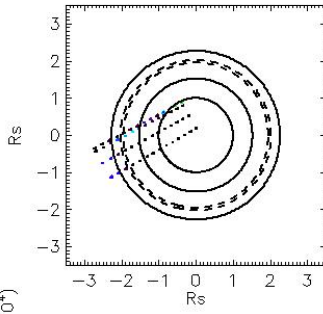
Observation Name:
UMS_028RLWN50208001_ISS_1

Observation Date:
2006_254_03_34_46

Observation Duration:
440 S

Integration time = 40 S



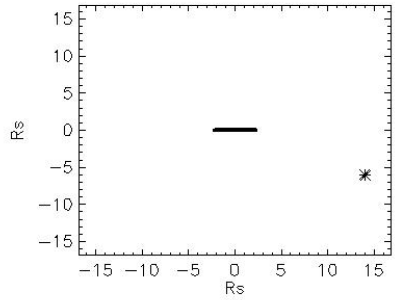
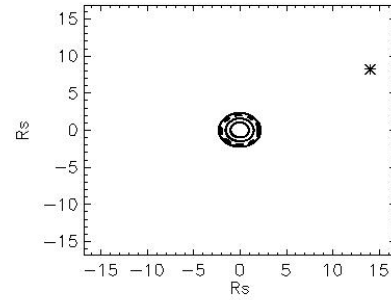
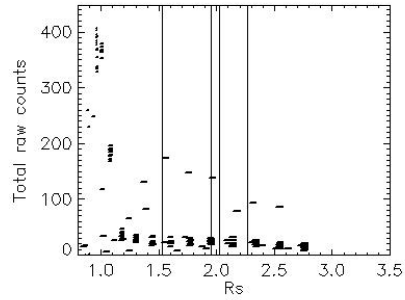
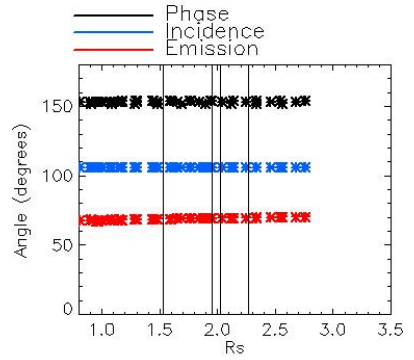
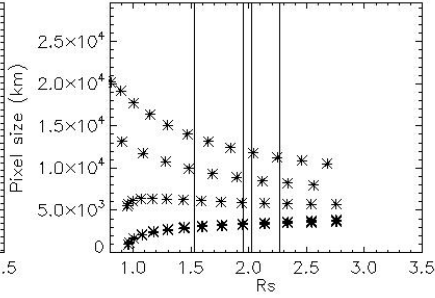
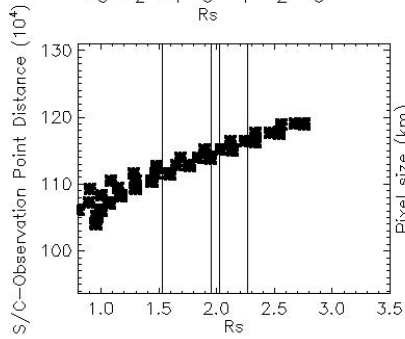


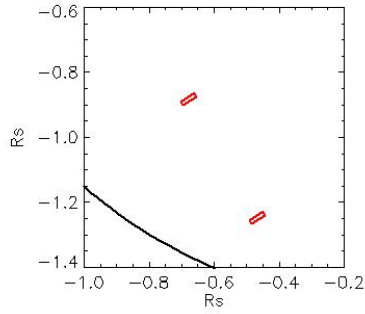
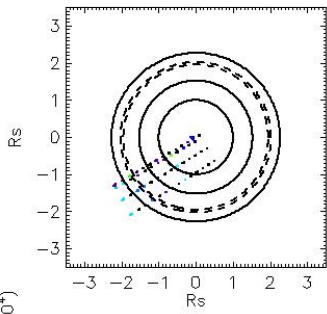
Observation Name:
UMS_028RLWN50208001_ISS_1

Observation Date:
2006_254_03_42_57

Observation Duration:
440 S

Integration time = 40 S



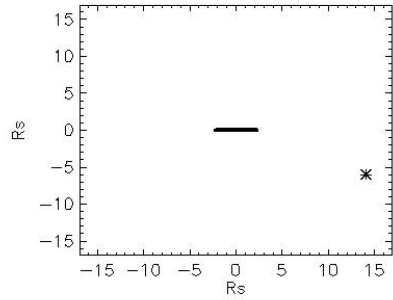
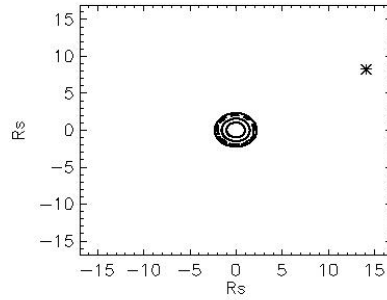
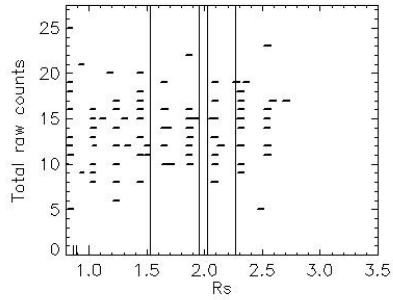
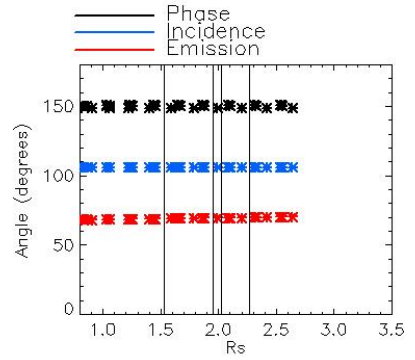
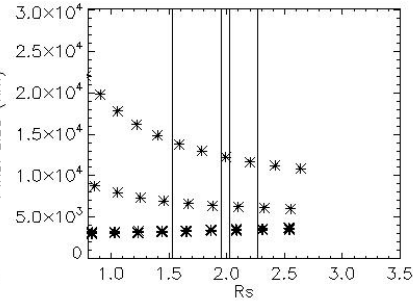
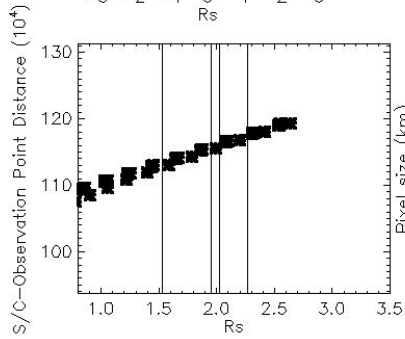


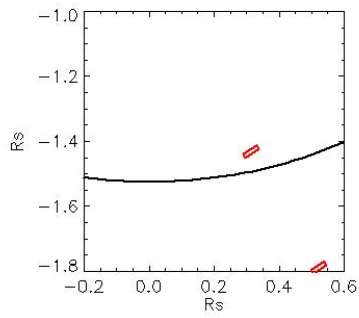
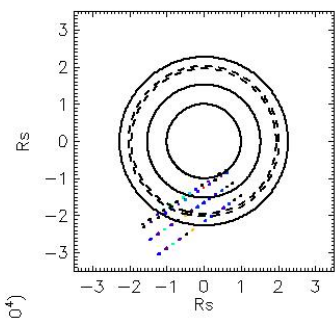
Observation Name:
UMS_028RLWN50208001_ISS_1

Observation Date:
2006_254_03_51_08

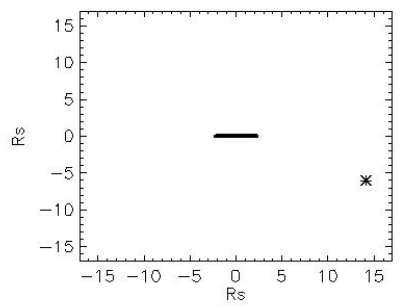
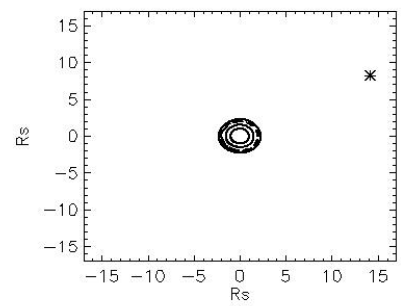
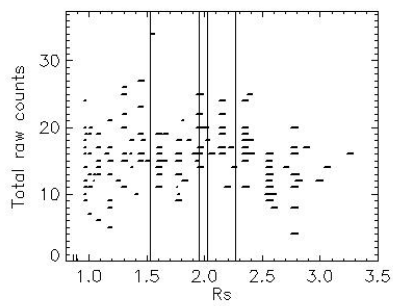
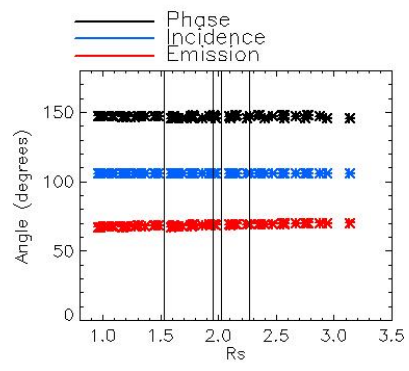
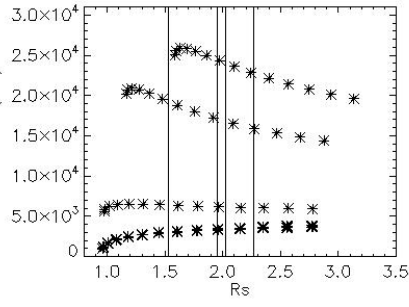
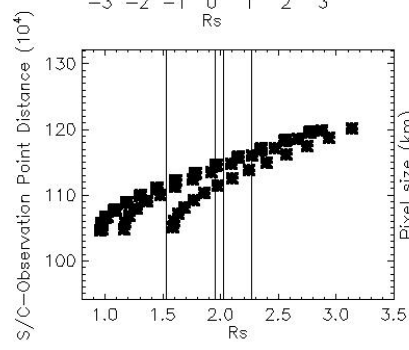
Observation Duration:
440 S

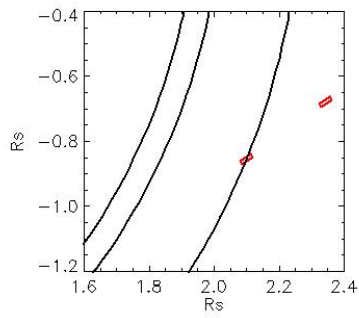
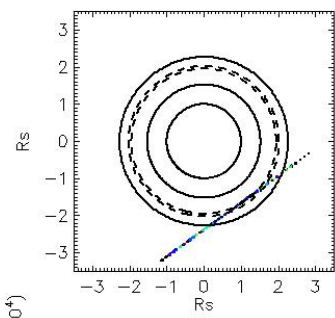
Integration time = 40 S



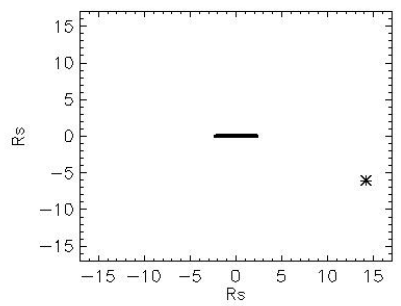
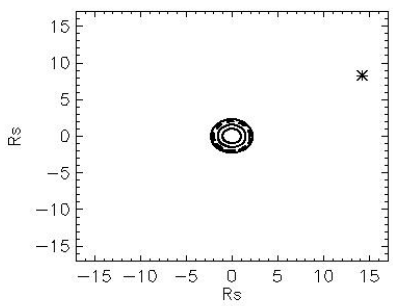
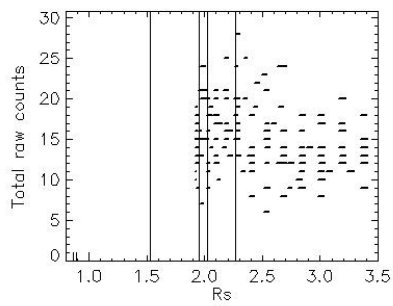
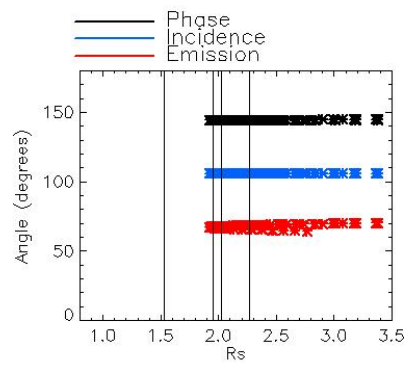
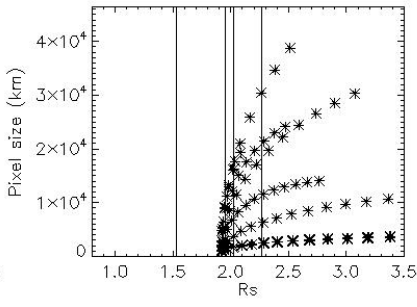
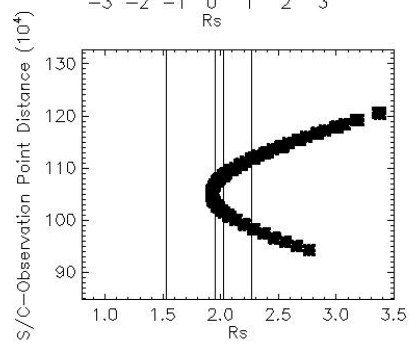


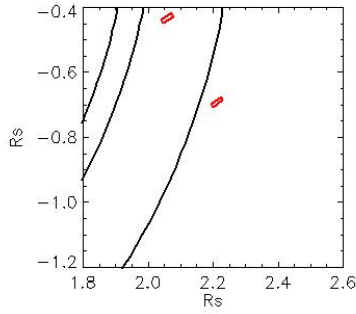
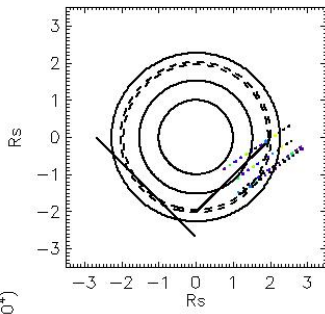
Observation Name:
 UVS_028RLWN50208001_ISS_1
 Observation Date:
 2006_254_03_59_19
 Observation Duration:
 440 S
 Integration time = 40 S





Observation Name:
UWS_028RLWN50208001_ISS_1
Observation Date:
2006_254_04_07_30
Observation Duration:
520 S
Integration time = 40 S



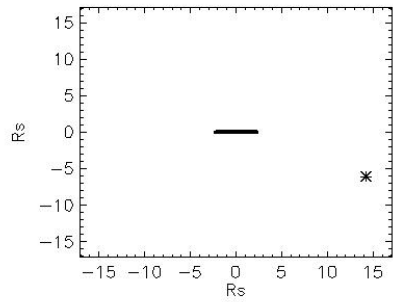
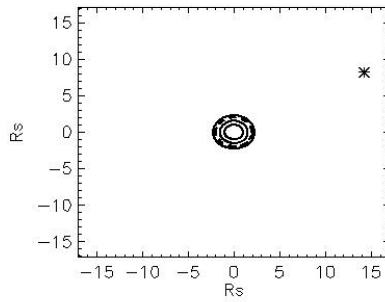
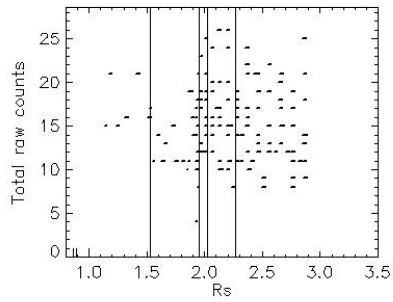
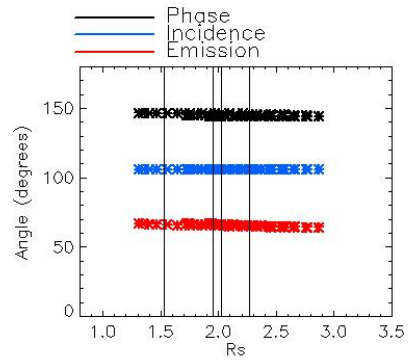
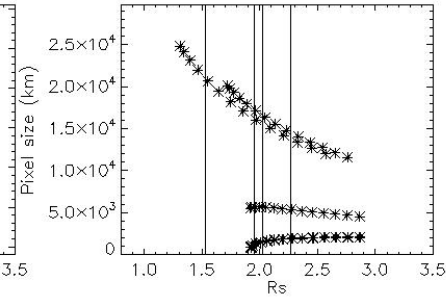
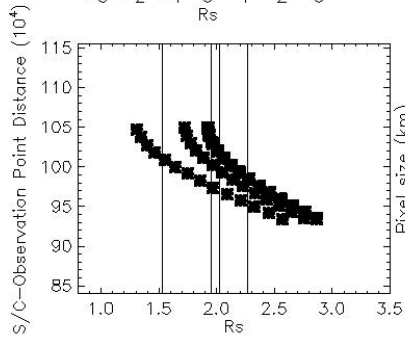


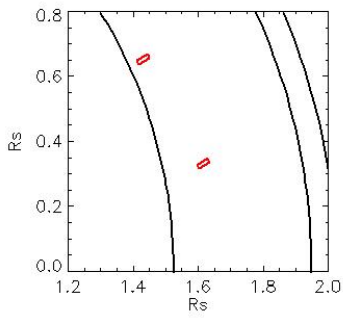
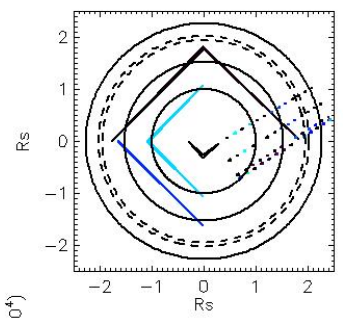
Observation Name:
UWS_028RLWN50208001_ISS_1

Observation Date:
2006_254_04_16_34

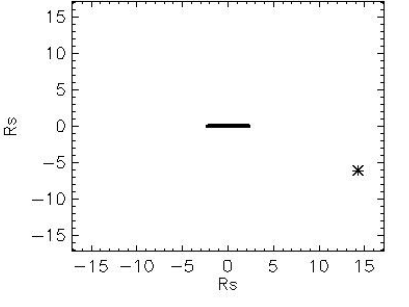
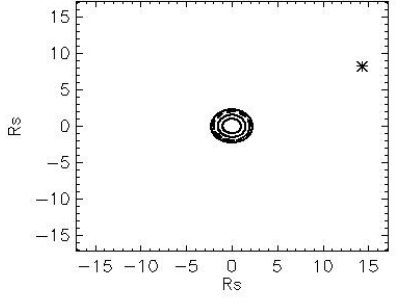
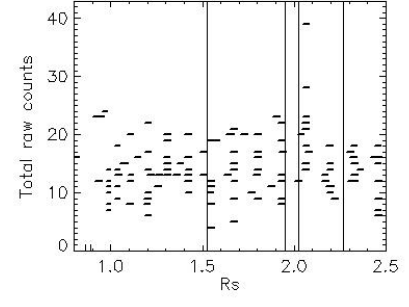
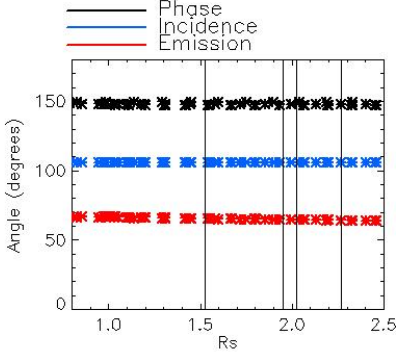
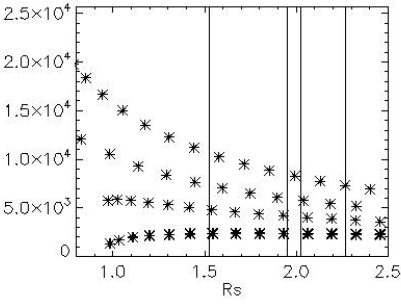
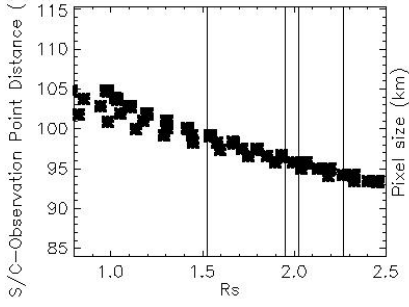
Observation Duration:
440 S

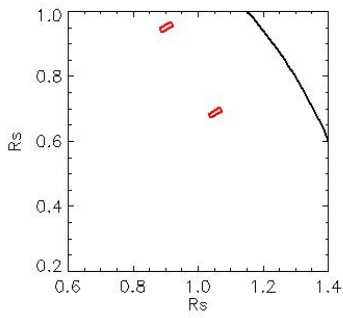
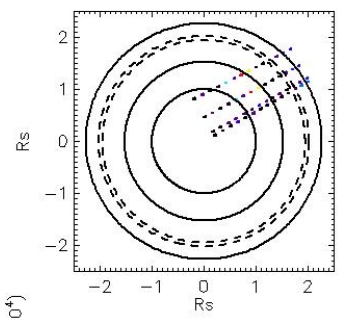
Integration time = 40 S



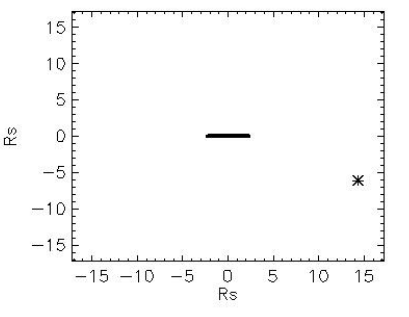
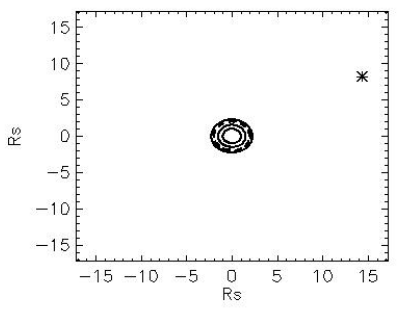
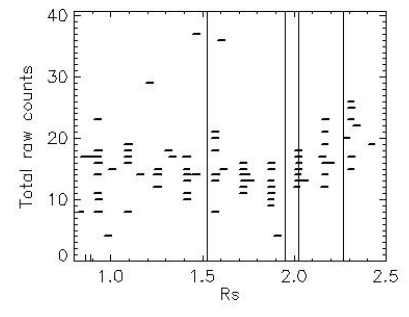
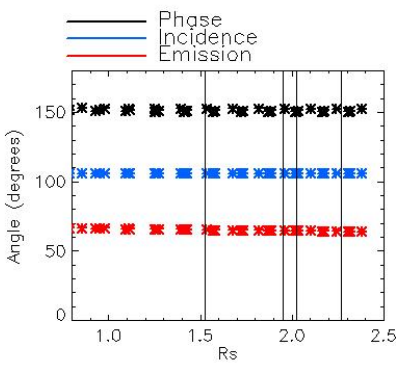
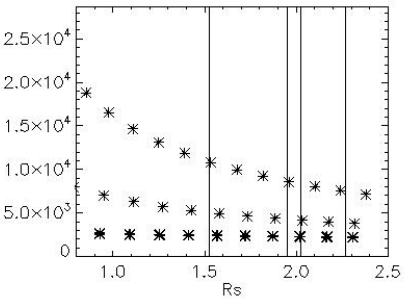
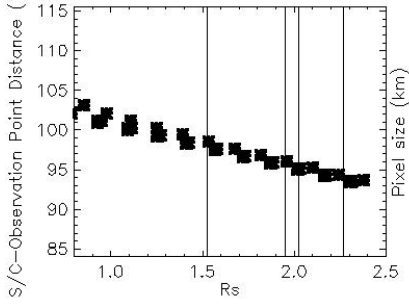


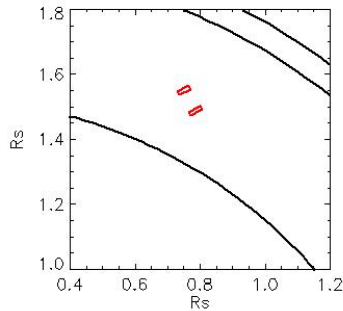
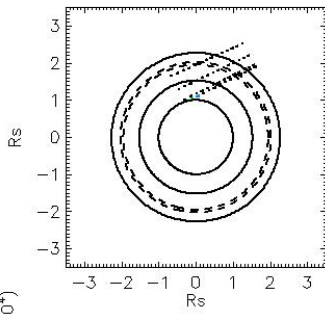
Observation Name:
 UVS_028RLWN50208001_ISS_1
 Observation Date:
 2006_254_04_24_45
 Observation Duration:
 440 S
 Integration time = 40 S





Observation Name:
 UVS_028RLWN50208001_ISS_1
 Observation Date:
 2006_254_04_32_56
 Observation Duration:
 440 S
 Integration time = 40 S



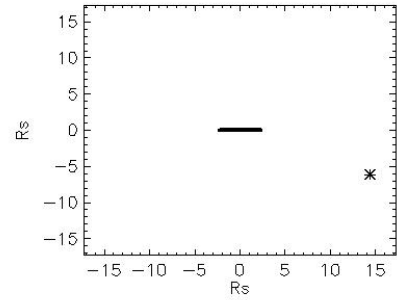
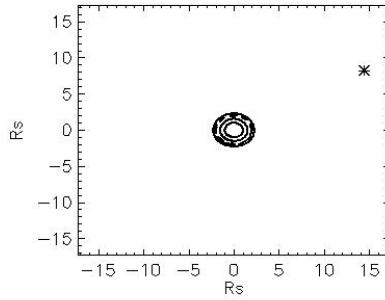
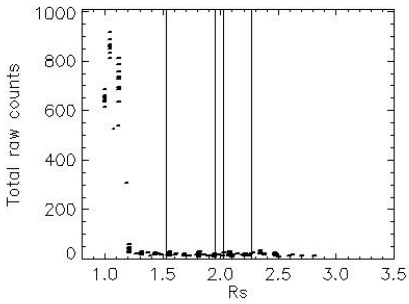
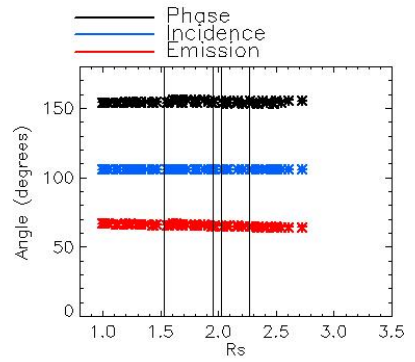
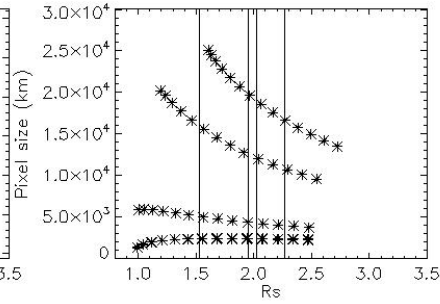
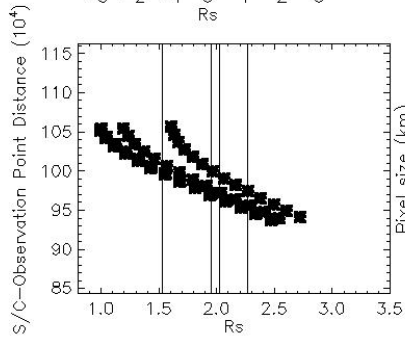


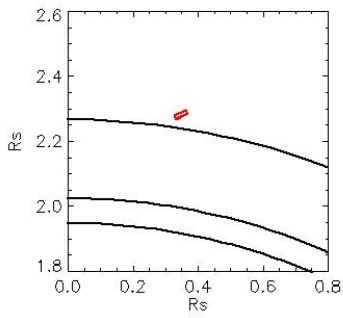
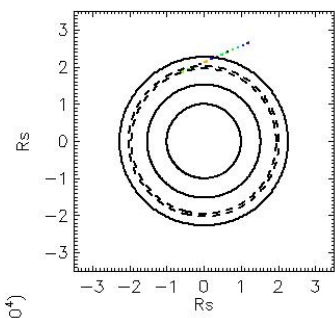
Observation Name:
UVS_028RLWN50208001_ISS_1

Observation Date:
2006_254_04_41_07

Observation Duration:
440 S

Integration time = 40 S



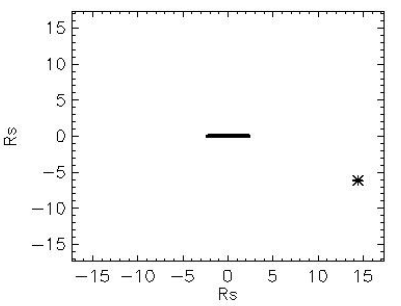
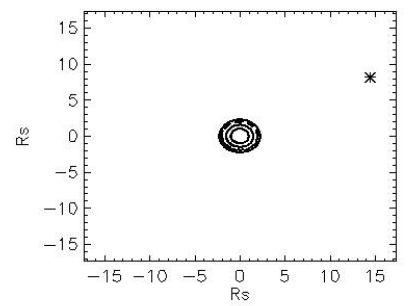
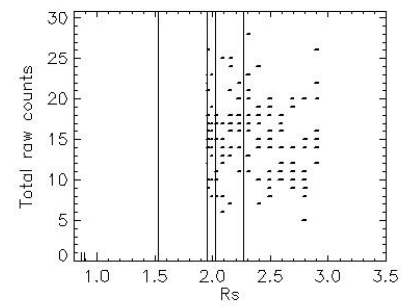
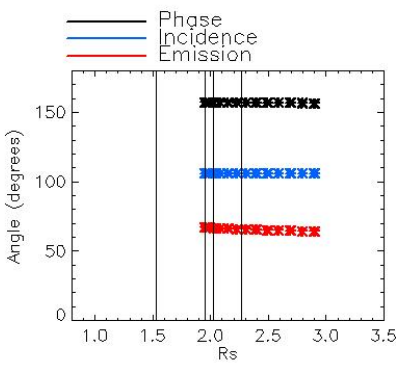
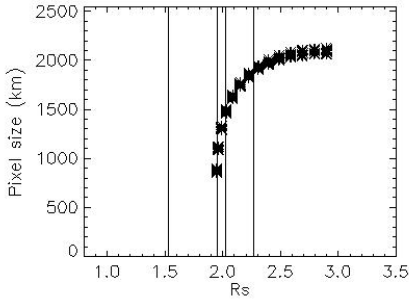
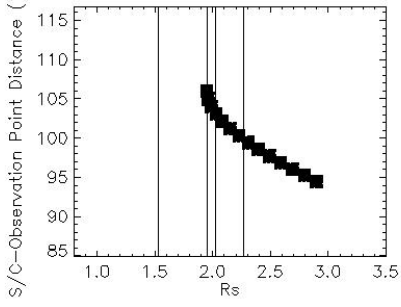


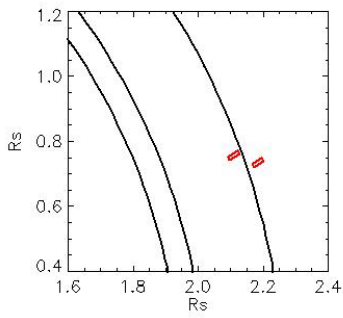
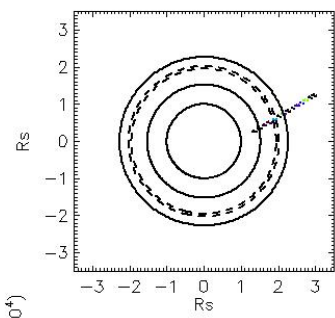
Observation Name:
UMS_028RLWN50208001_ISS_1

Observation Date:
2006_254_04_49_18

Observation Duration:
440 S

Integration time = 40 S



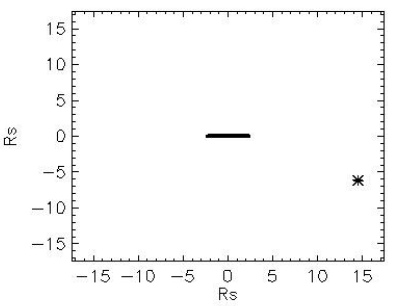
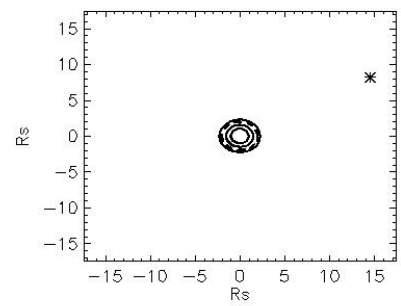
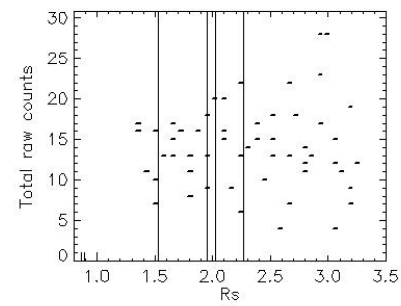
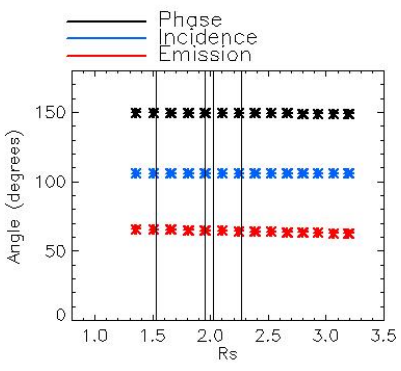
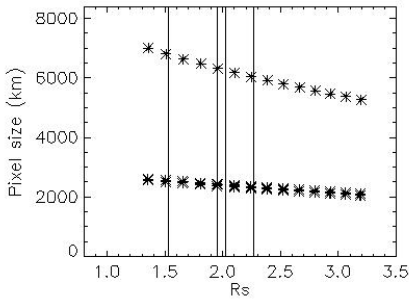
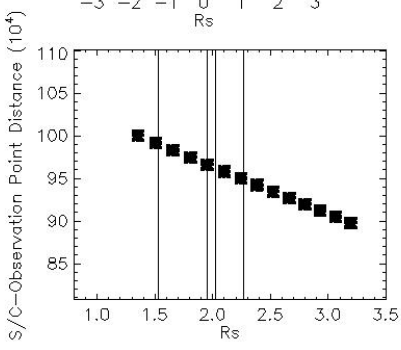


Observation Name:
UVS_028RLSHADBOUND001_ISS_1

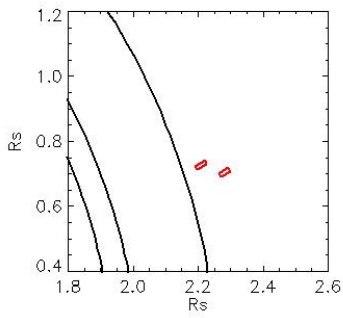
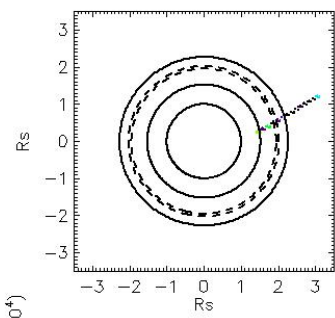
Observation Date:
2006_254_05_04_45

Observation Duration:
160 S

Integration time = 40 S



— Phase
— Incidence
— Emission

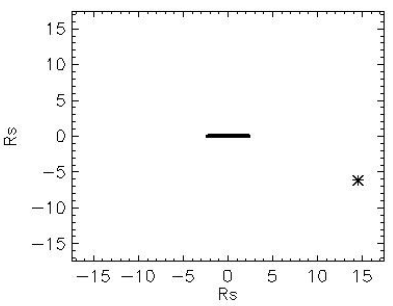
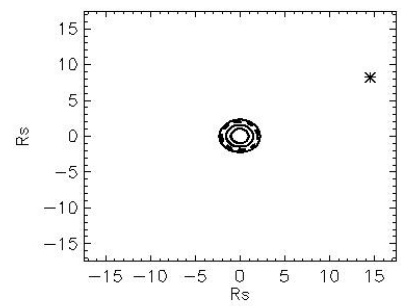
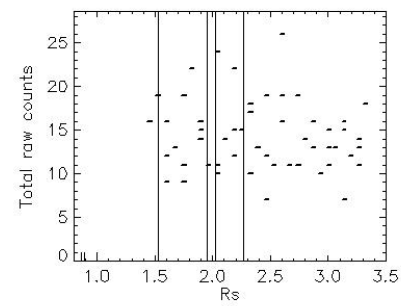
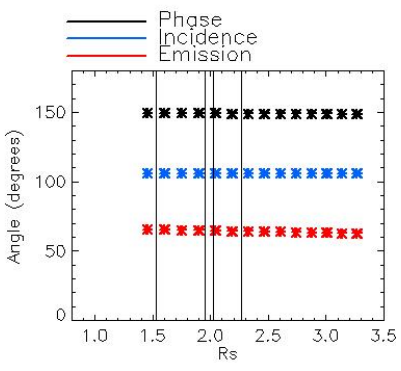
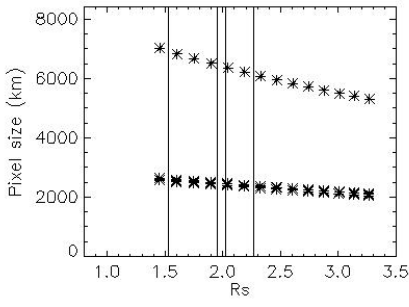
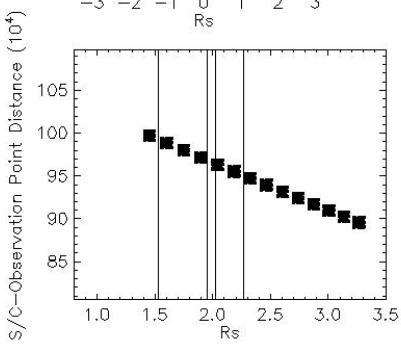


Observation Name:
UVS_028RLSHADBOUND001_ISS_1

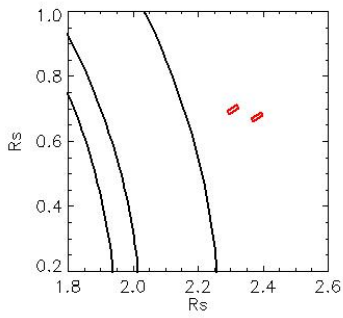
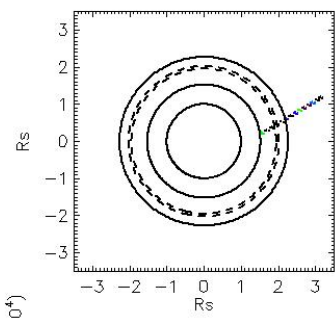
Observation Date:
2006_254_05_07_46

Observation Duration:
160 S

Integration time = 40 S



— Phase
— Incidence
— Emission

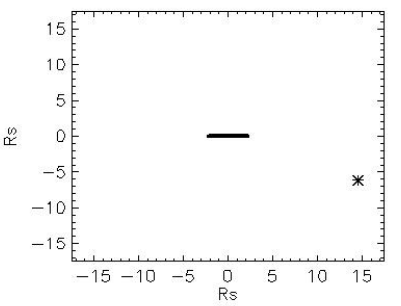
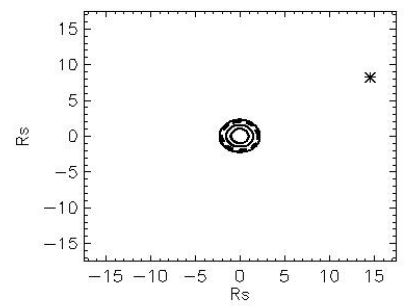
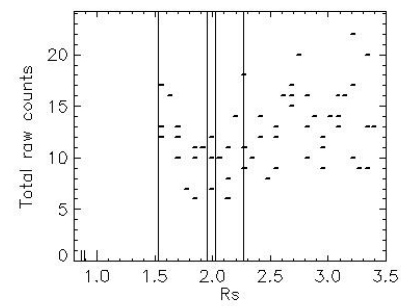
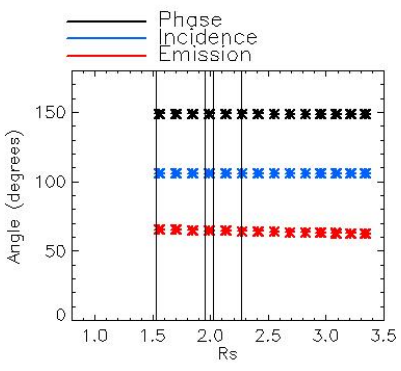
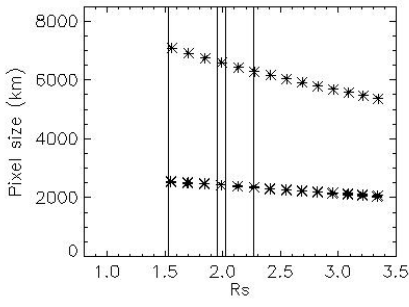
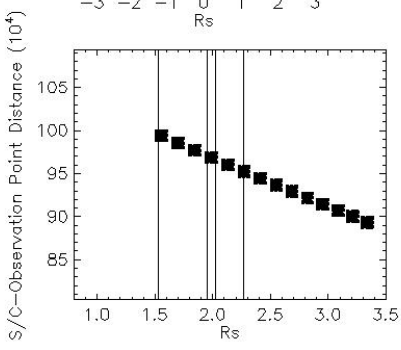


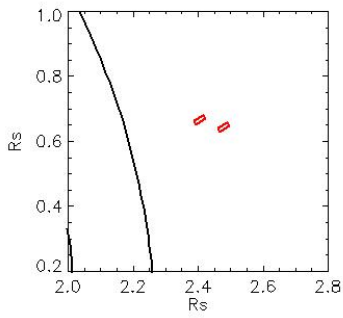
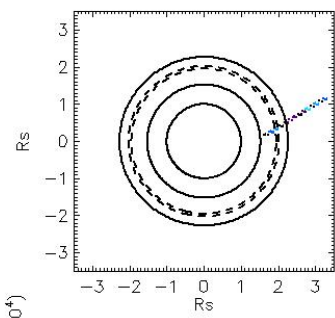
Observation Name:
UMS_028RLSHADBOUND001_ISS_1

Observation Date:
2006_254_05_10_47

Observation Duration:
160 S

Integration time = 40 S



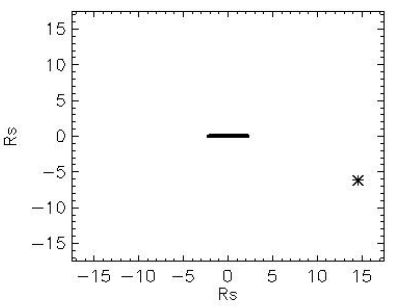
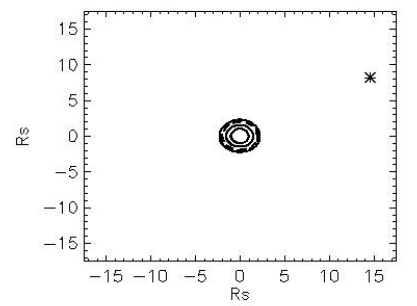
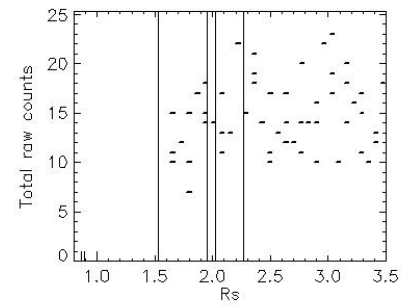
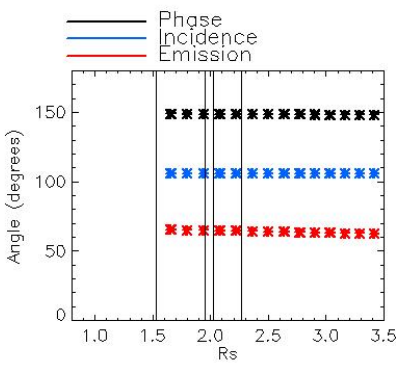
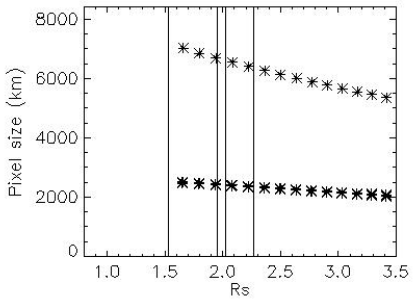
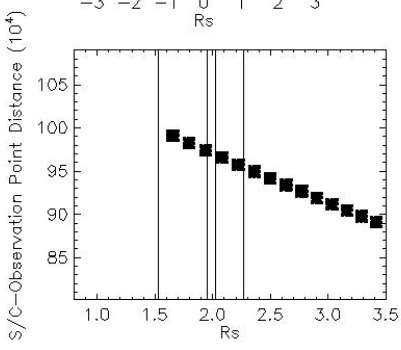


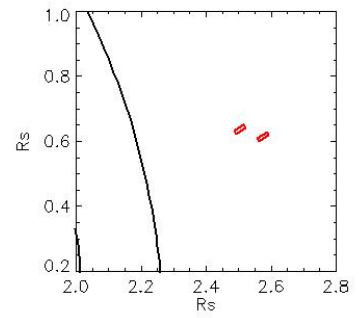
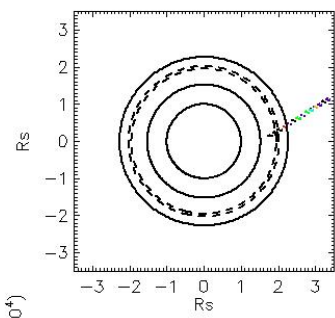
Observation Name:
UVS_028RLSHADBOUND001_ISS_1

Observation Date:
2006_254_05_13_48

Observation Duration:
160 S

Integration time = 40 S



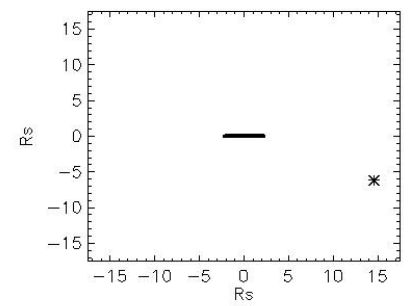
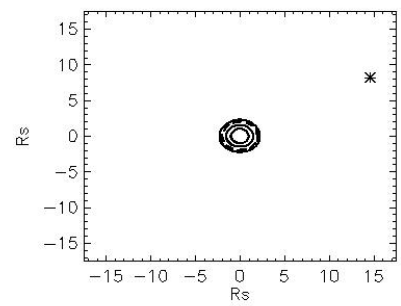
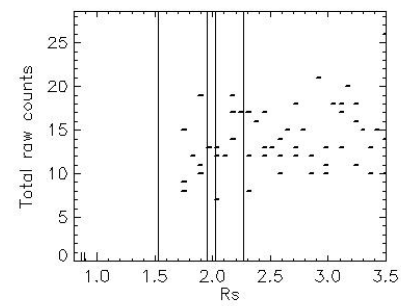
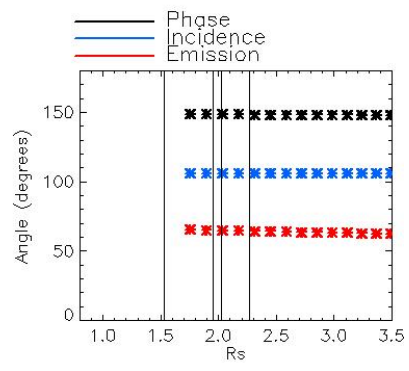
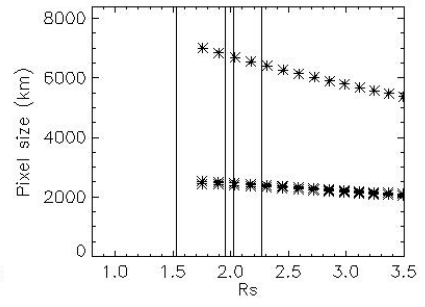
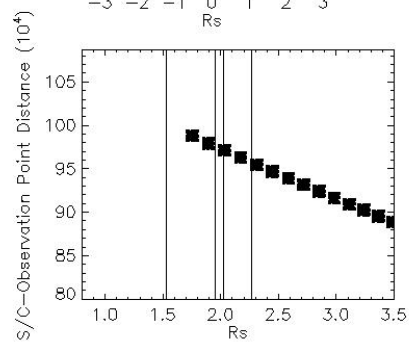


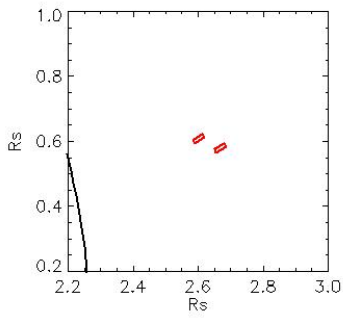
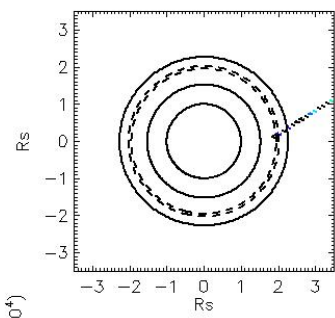
Observation Name:
UVS_028RLSHADBOUND001_ISS_1

Observation Date:
2006_254_05_16_49

Observation Duration:
160 S

Integration time = 40 S



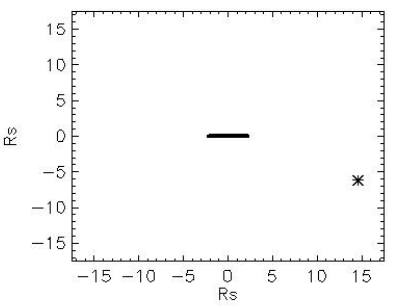
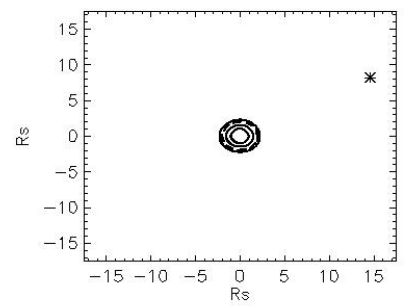
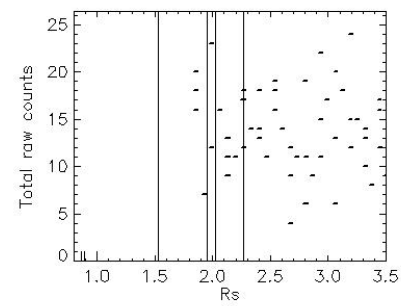
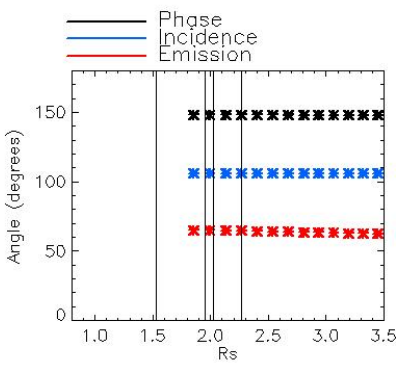
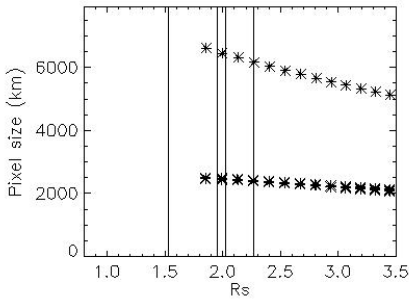
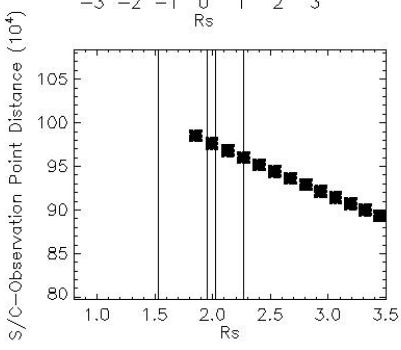


Observation Name:
UVS_028RLSHADBOUND001_ISS_1

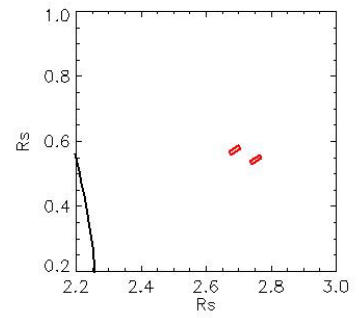
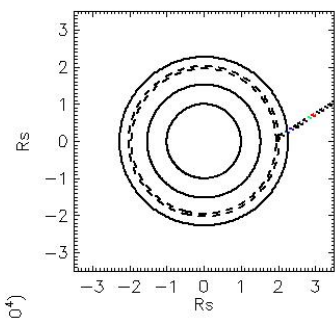
Observation Date:
2006_254_05_19_50

Observation Duration:
160 S

Integration time = 40 S



— Phase
— Incidence
— Emission

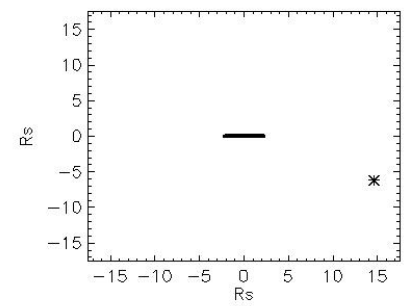
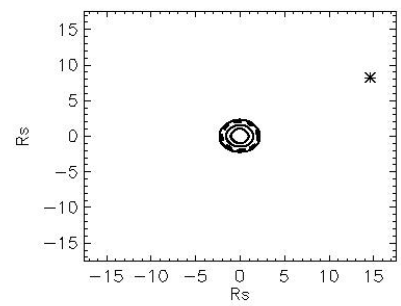
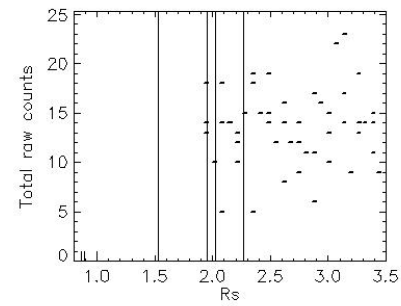
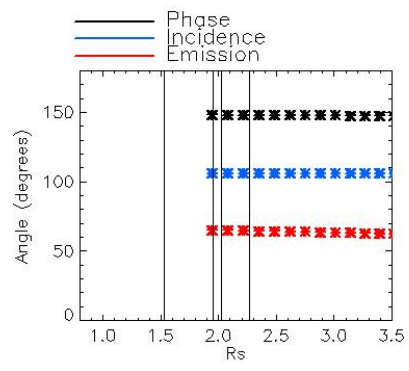
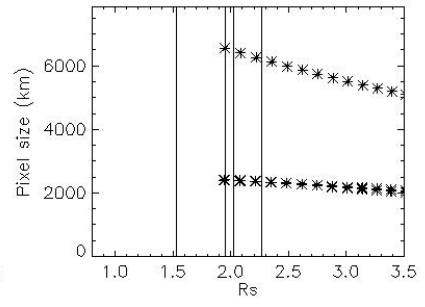
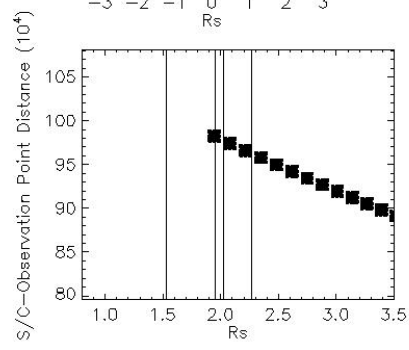


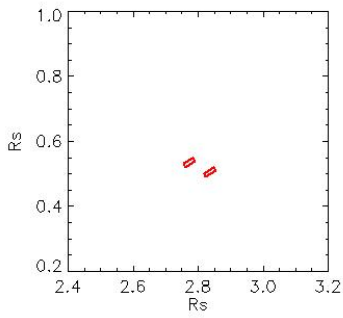
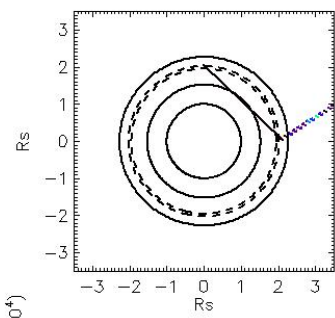
Observation Name:
UVS_028RLSHADBOUND001_ISS_1

Observation Date:
2006_254_05_22_50

Observation Duration:
160 S

Integration time = 40 S



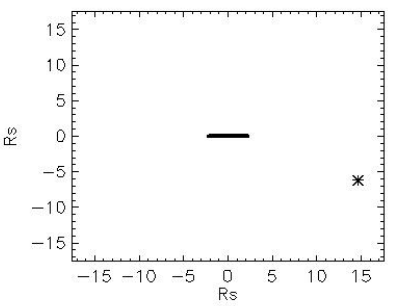
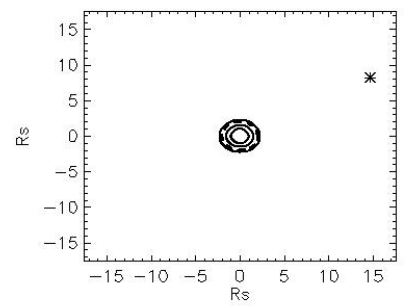
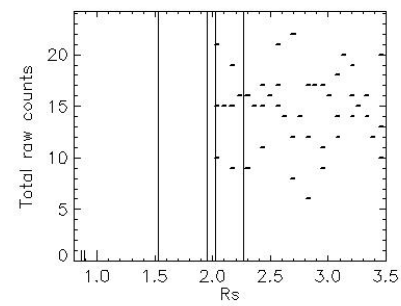
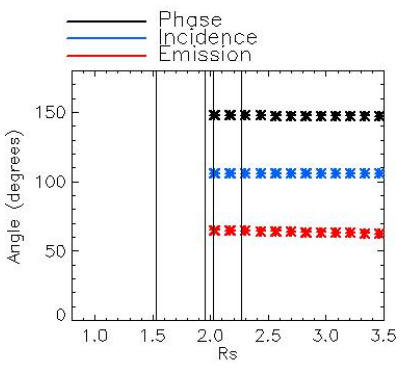
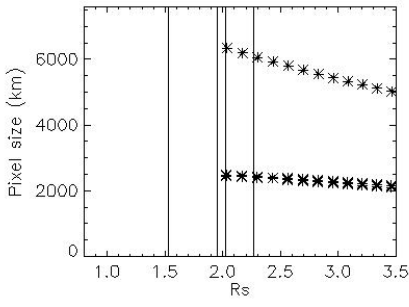
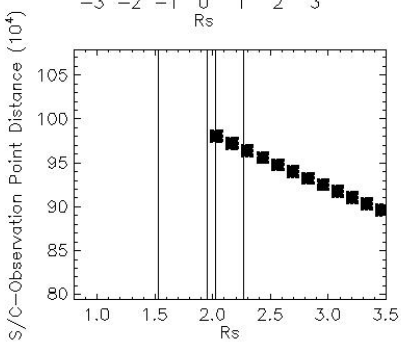


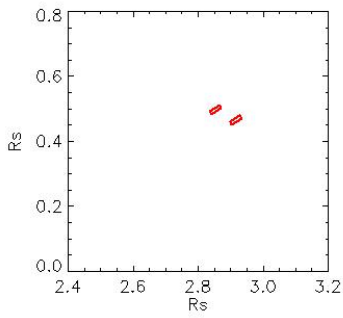
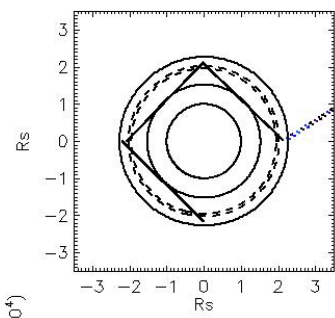
Observation Name:
UVS_028RLSHADBOUND001_ISS_1

Observation Date:
2006_254_05_25_49

Observation Duration:
160 S

Integration time = 40 S



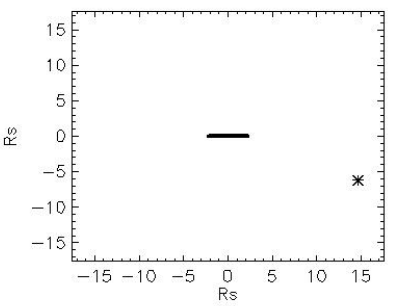
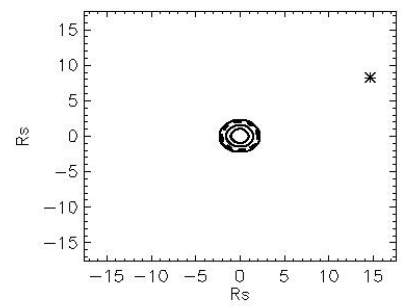
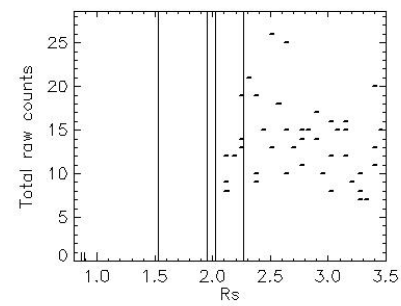
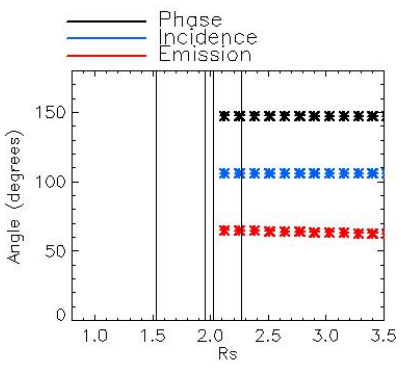
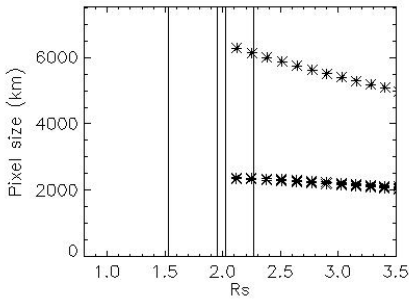
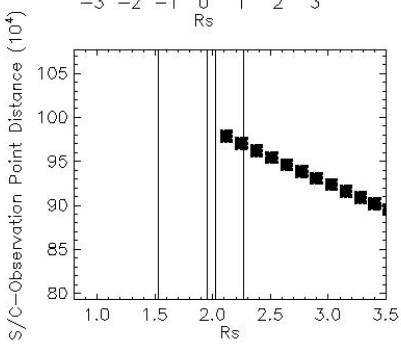


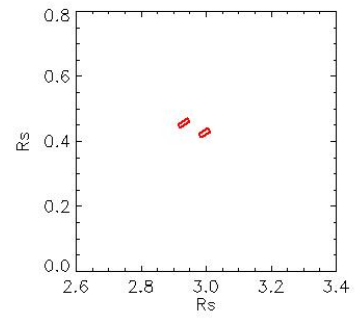
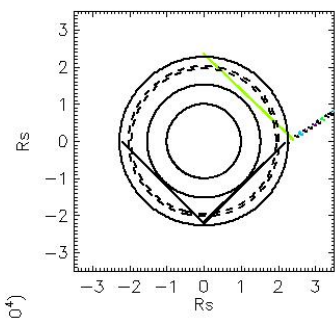
Observation Name:
UVS_028RLSHADBOUND001_ISS_1

Observation Date:
2006_254_05_28_48

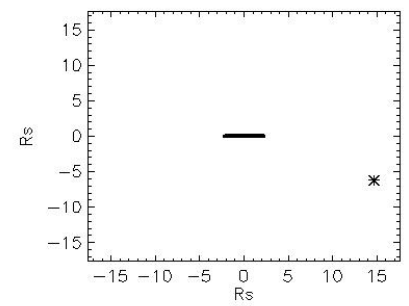
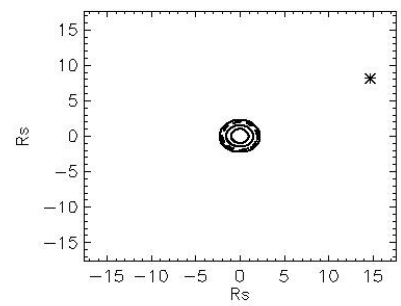
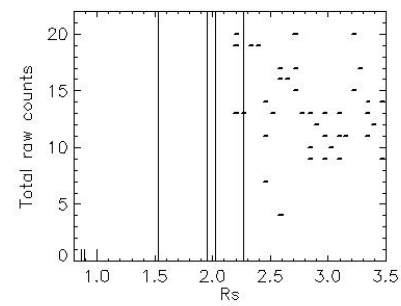
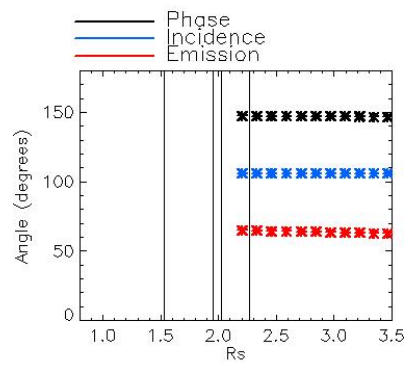
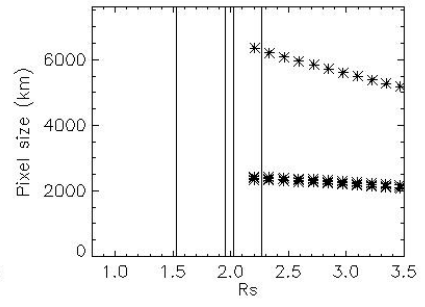
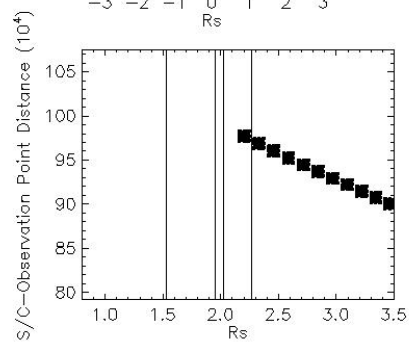
Observation Duration:
160 S

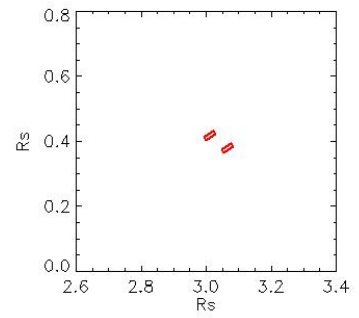
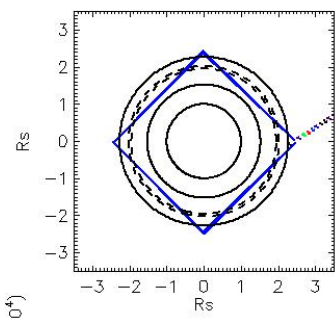
Integration time = 40 S





Observation Name:
 UVS_028RLSHADBOUND001_ISS_1
 Observation Date:
 2006_254_05_31_47
 Observation Duration:
 160 S
 Integration time = 40 S



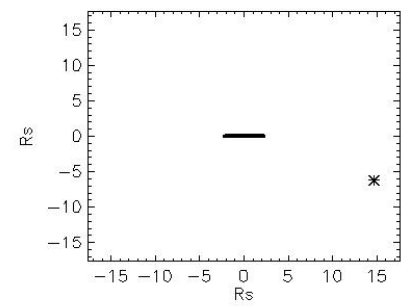
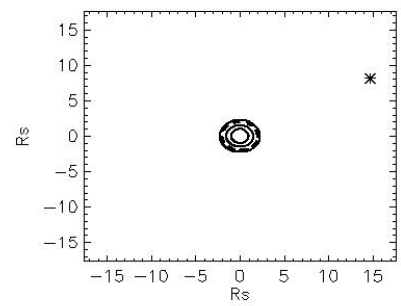
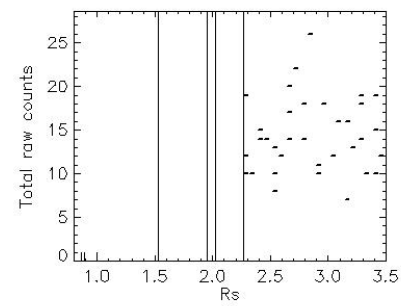
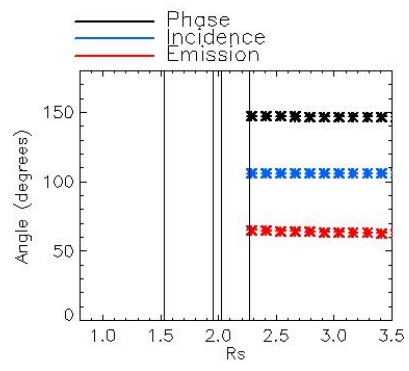
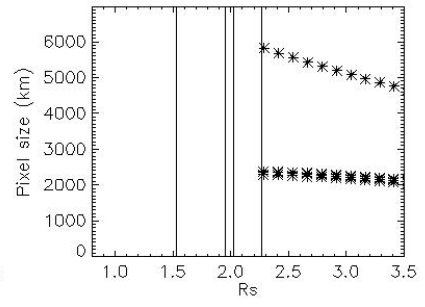
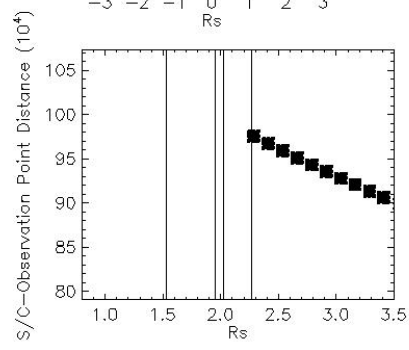


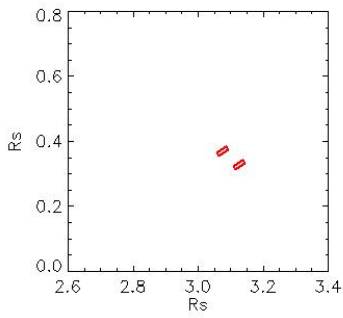
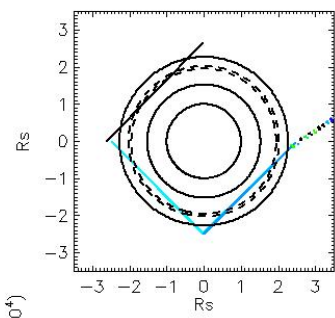
Observation Name:
UVS_028RLSHADBOUND001_ISS_1

Observation Date:
2006_254_05_34_46

Observation Duration:
160 S

Integration time = 40 S



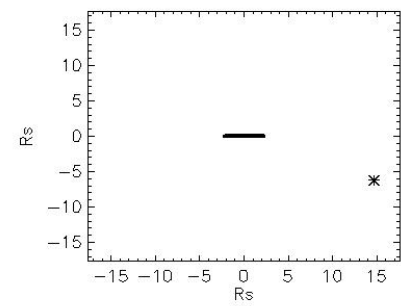
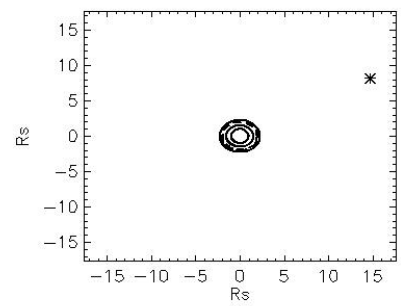
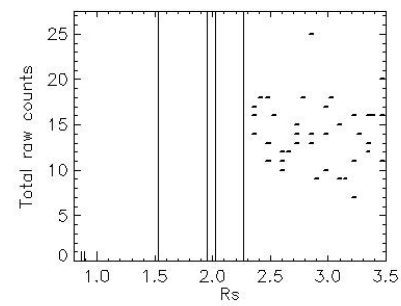
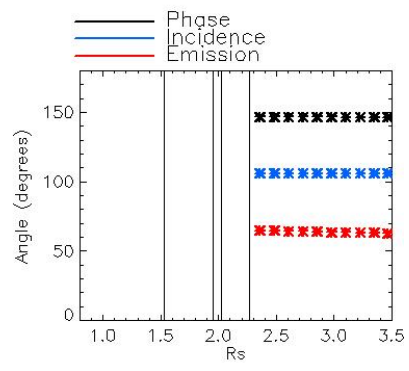
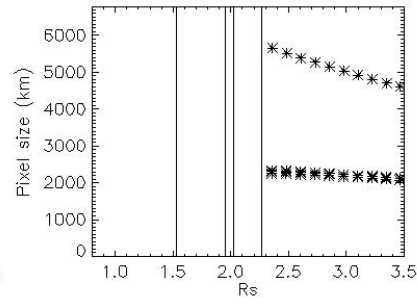
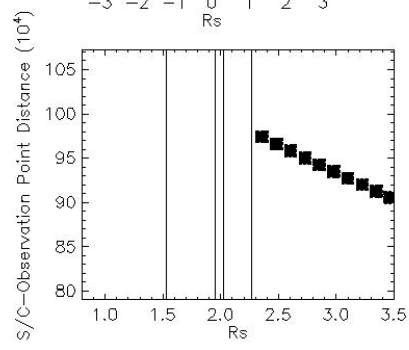


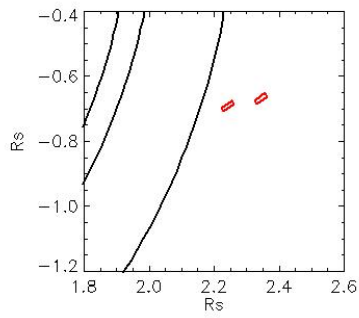
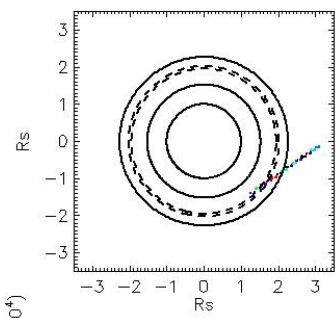
Observation Name:
UVS_028RLSHADBOUND001_ISS_1

Observation Date:
2006_254_05_37_45

Observation Duration:
160 S

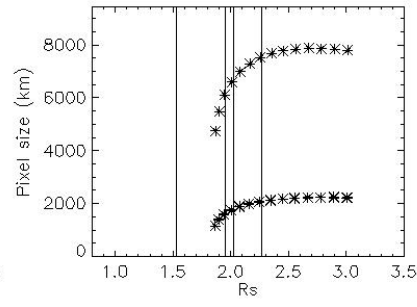
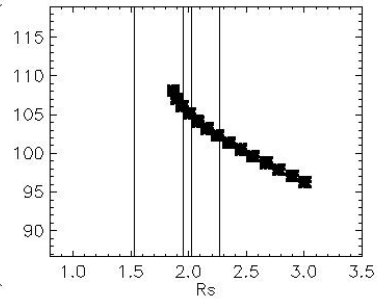
Integration time = 40 S



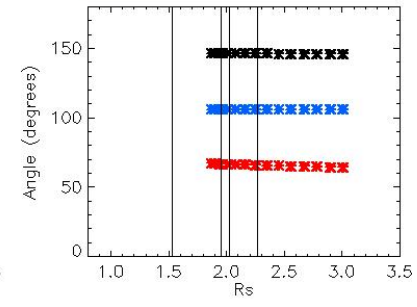


Observation Name:
 UVS_028RLSHADBOUND001_ISS_1
 Observation Date:
 2006_254_06_32_46
 Observation Duration:
 160 S
 Integration time = 40 S

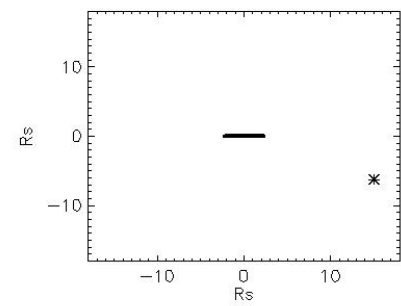
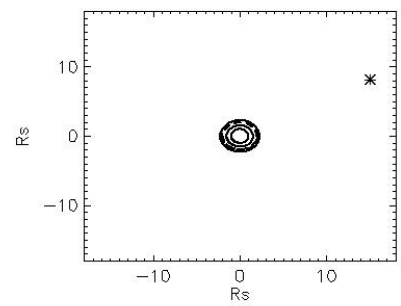
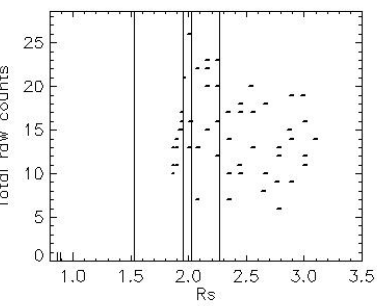
S/C-Observation Point Distance (10^4)

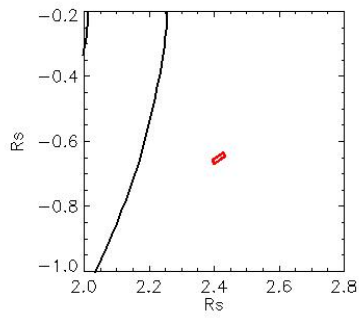
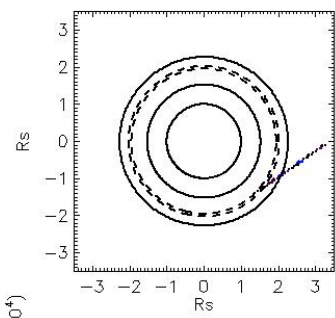


— Phase
 — Incidence
 — Emission

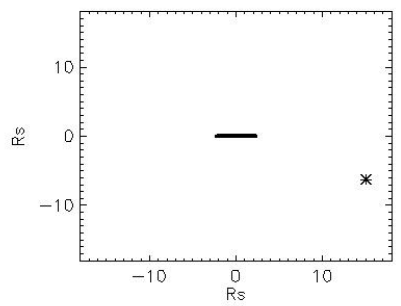
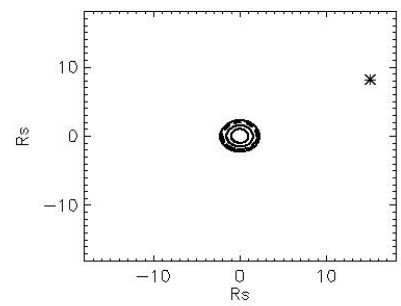
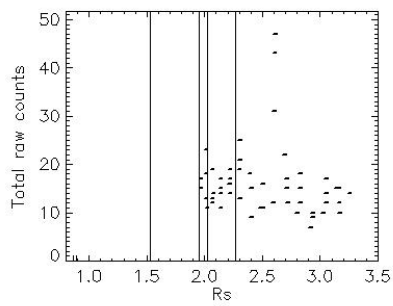
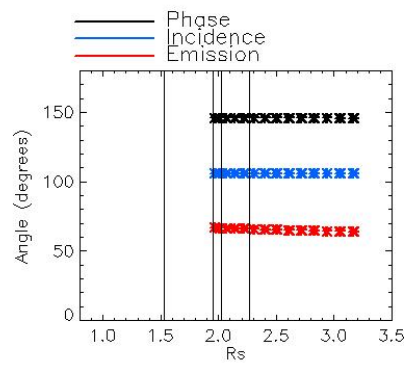
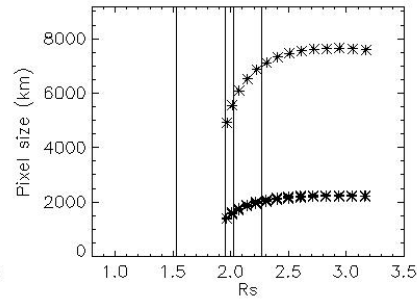
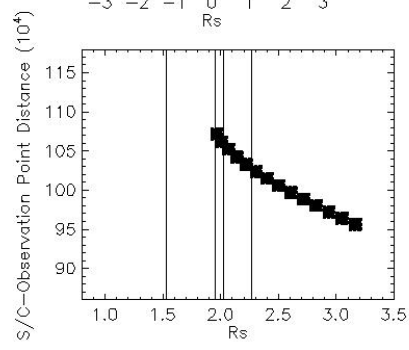


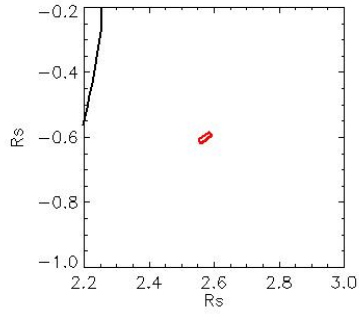
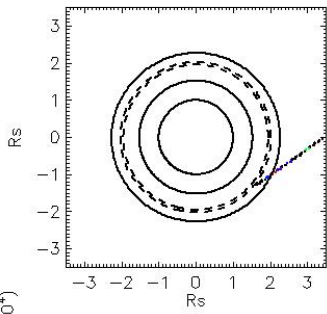
Total raw counts





Observation Name:
 UVS_028RLSHADBOUND001_ISS_1
 Observation Date:
 2006_254_06_35_54
 Observation Duration:
 160 S
 Integration time = 40 S





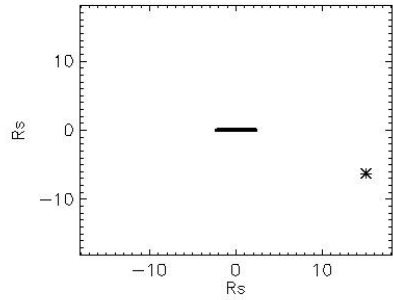
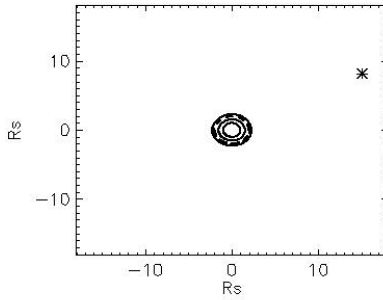
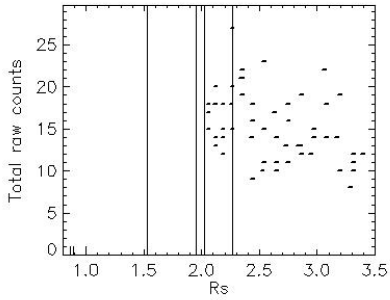
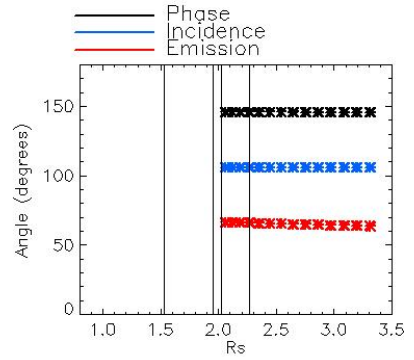
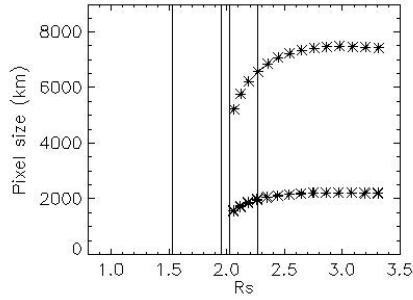
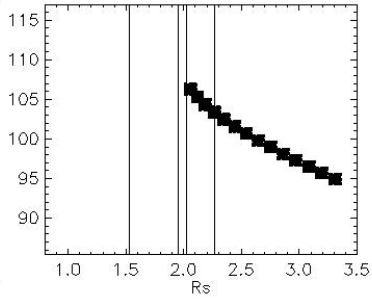
Observation Name:
UVS_028RLSHADBOUND001_ISS_1

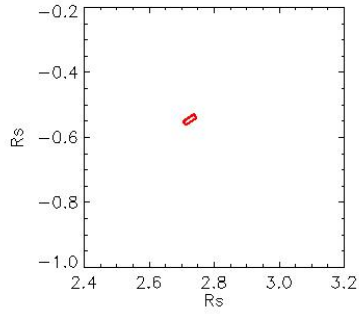
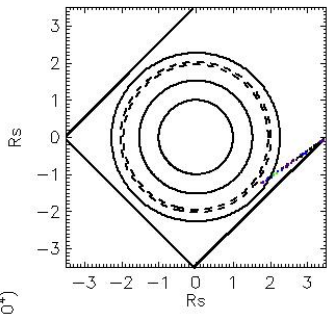
Observation Date:
2006_254_06_39_01

Observation Duration:
160 S

Integration time = 40 S

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



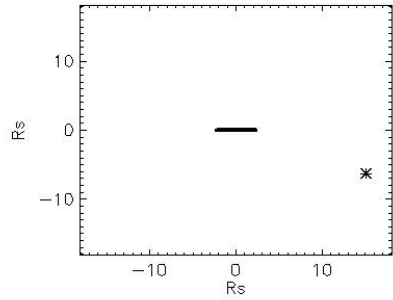
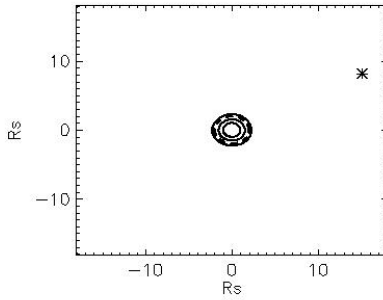
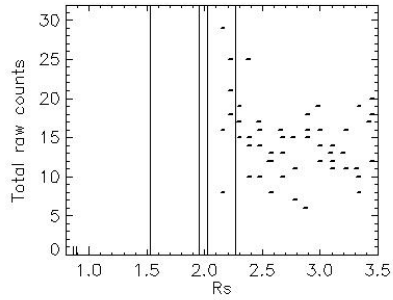
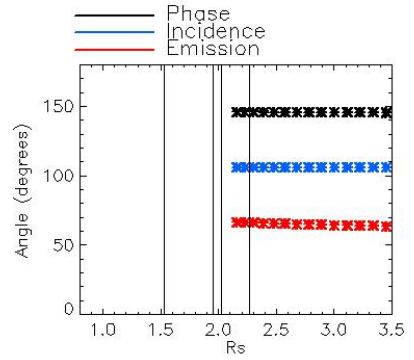
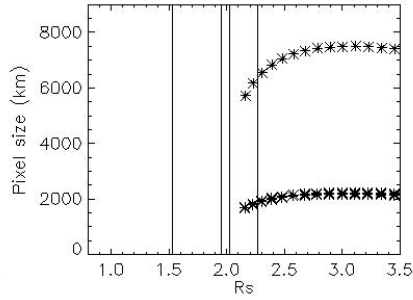
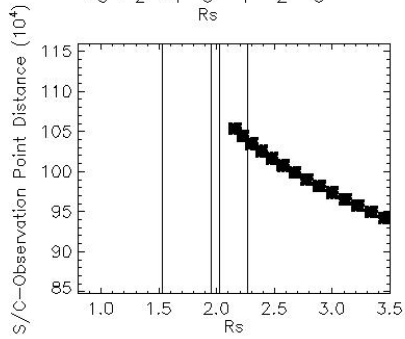


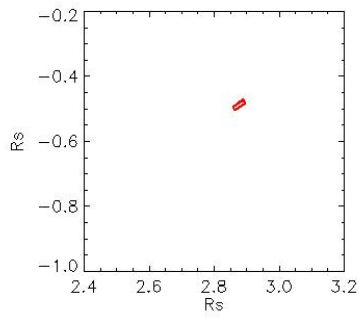
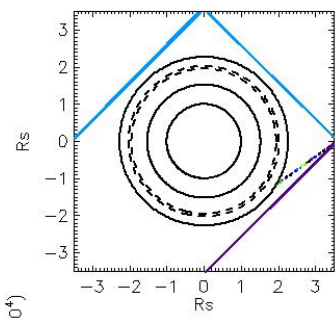
Observation Name:
UVS_028RLSHADBOUND001_ISS_1

Observation Date:
2006_254_06_42_07

Observation Duration:
160 S

Integration time = 40 S



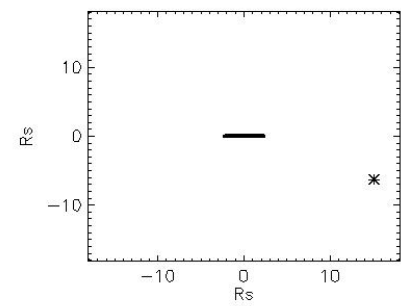
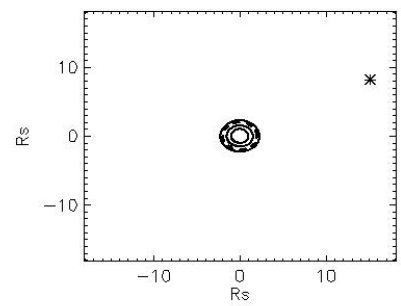
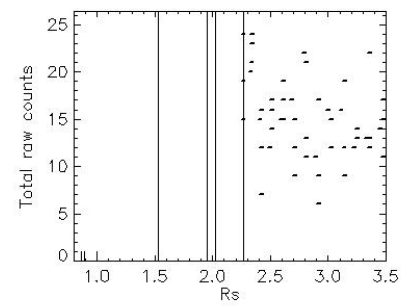
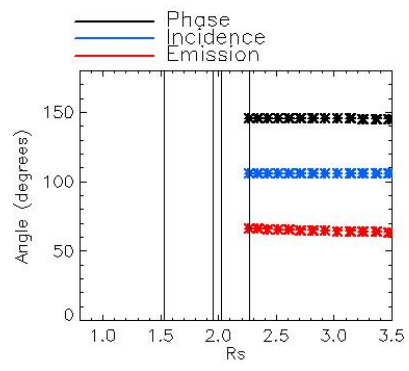
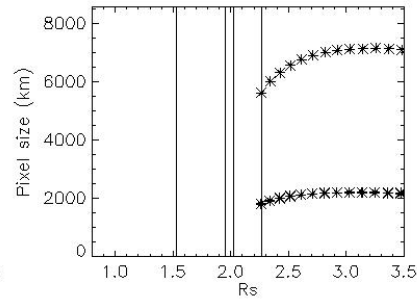
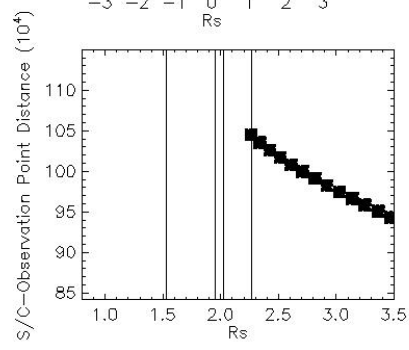


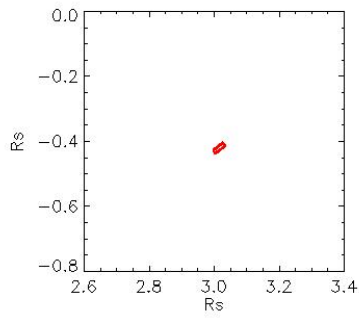
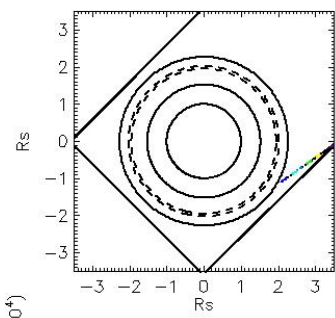
Observation Name:
UVS_028RLSHADBOUND001_ISS_1

Observation Date:
2006_254_06_45_13

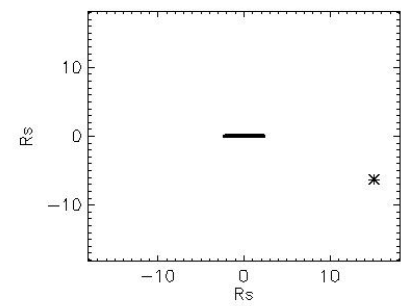
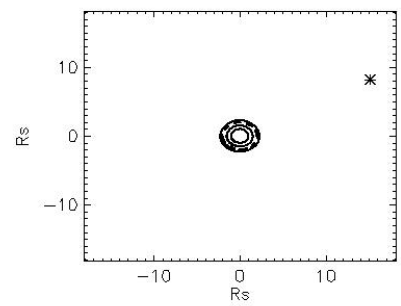
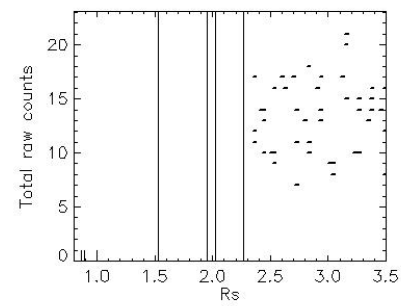
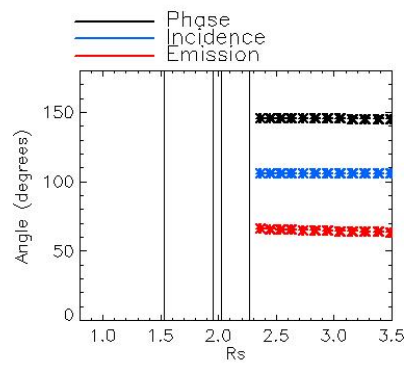
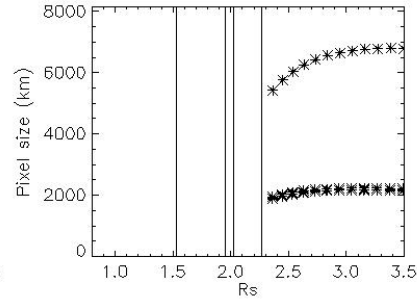
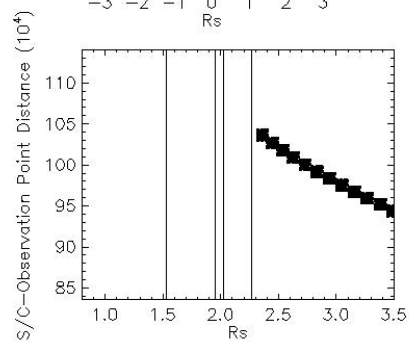
Observation Duration:
160 S

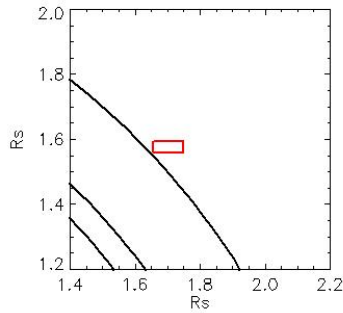
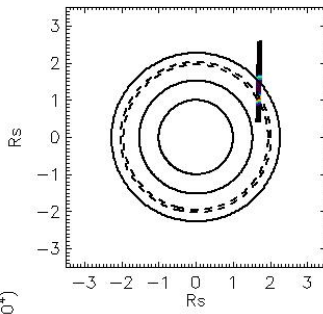
Integration time = 40 S





Observation Name:
 UVS_028RLSHADBOUND001_ISS_1
 Observation Date:
 2006_254_06_48_19
 Observation Duration:
 160 S
 Integration time = 40 S



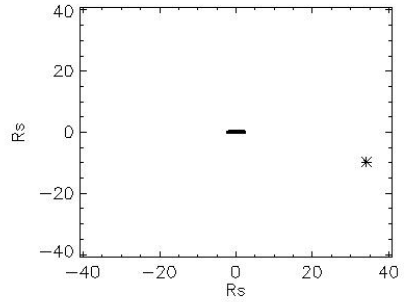
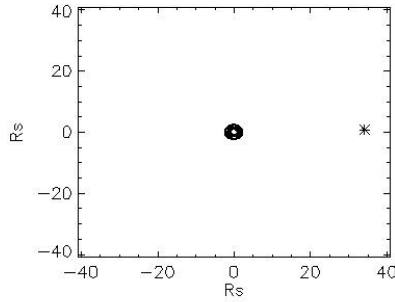
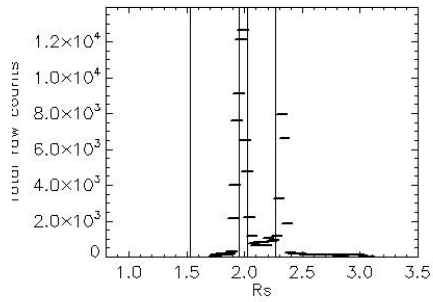
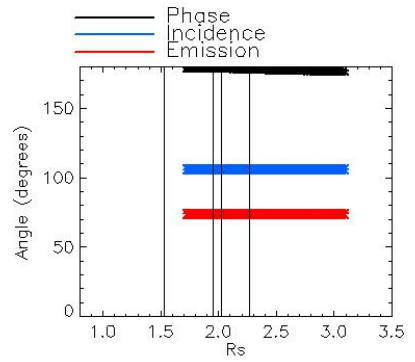
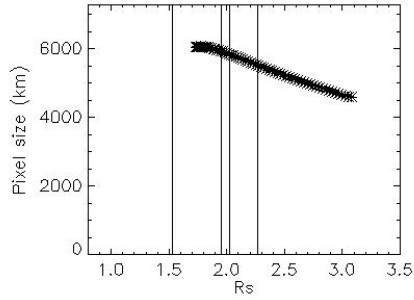
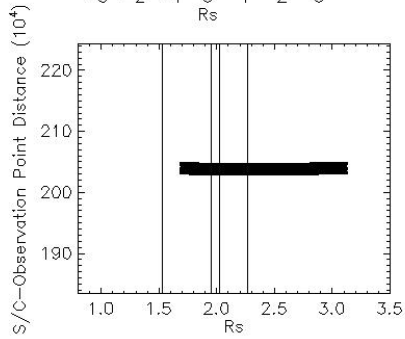


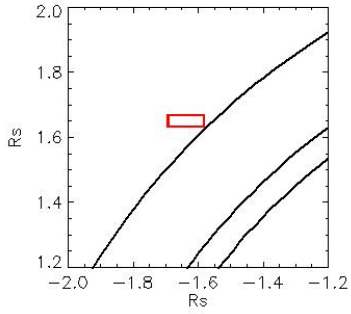
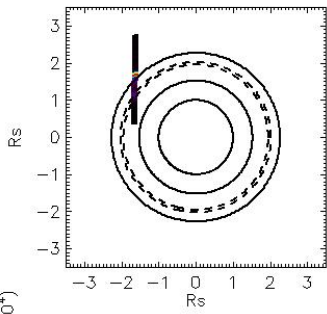
Observation Name:
UMS_028RLHIPHASE001_VIMS

Observation Date:
2006_258_09_29_19

Observation Duration:
600 S

Integration time = 600 S



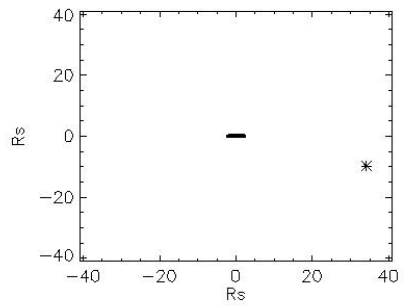
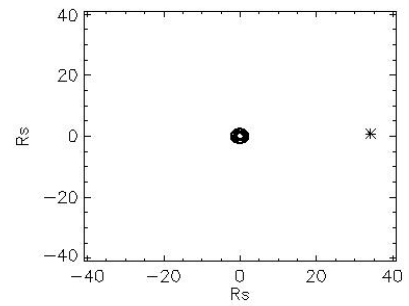
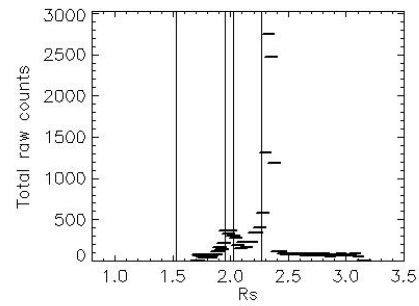
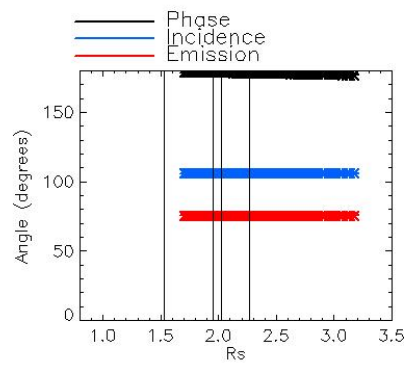
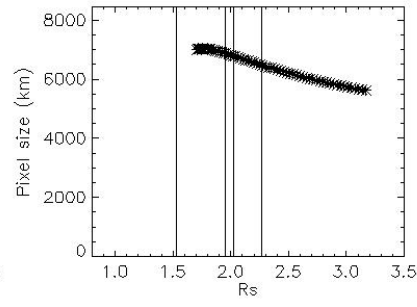
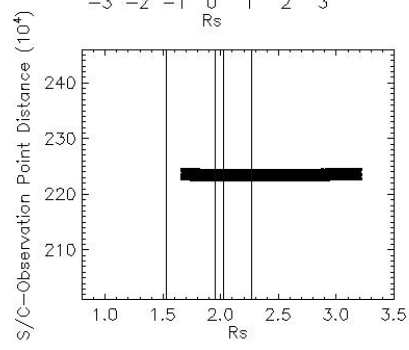


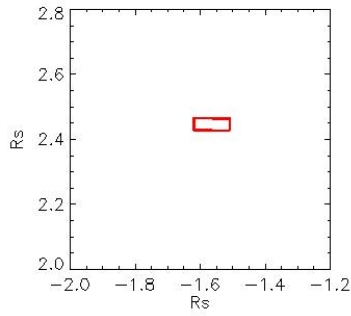
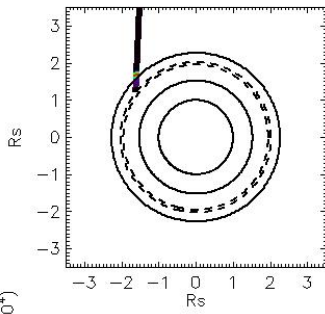
Observation Name:
UMS_028RLHIPHASE001_VIMS

Observation Date:
2006_258_09_51_28

Observation Duration:
600 S

Integration time = 600 S



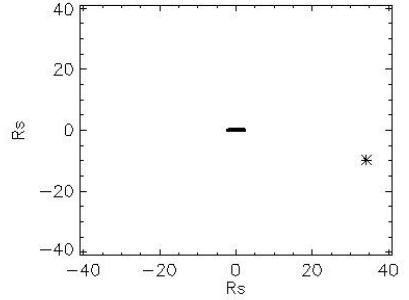
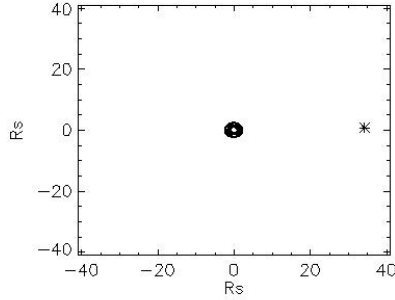
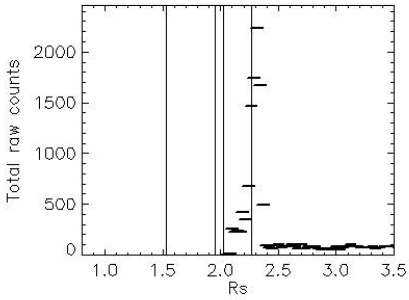
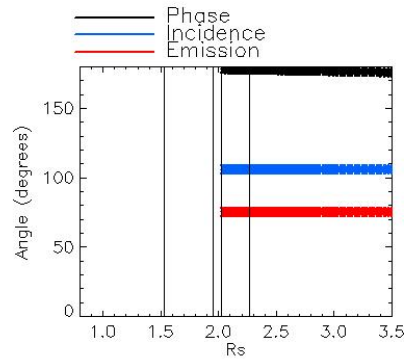
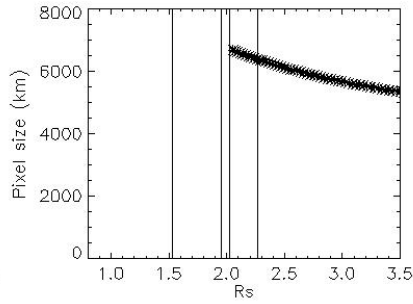
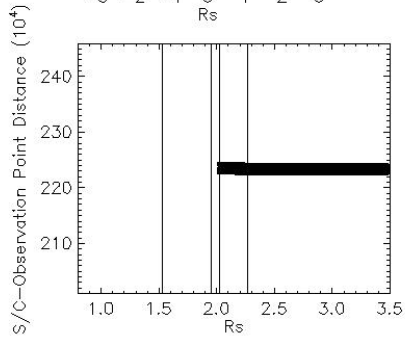


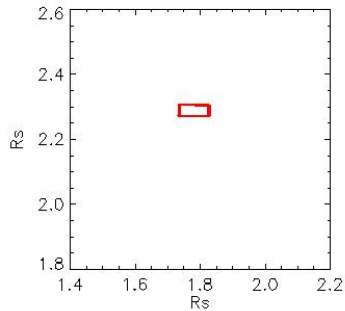
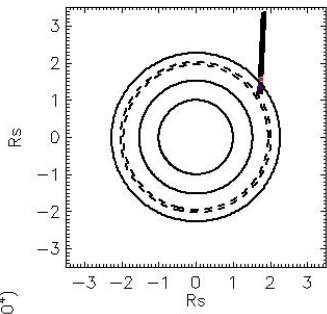
Observation Name:
UMS_028RLHIPHASE001_VIMS

Observation Date:
2006_258_10_14_01

Observation Duration:
600 S

Integration time = 600 S



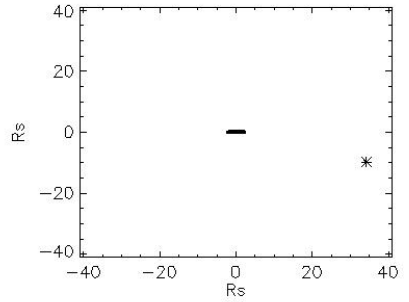
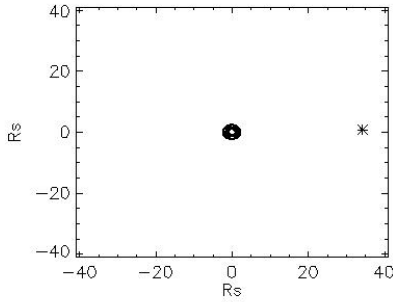
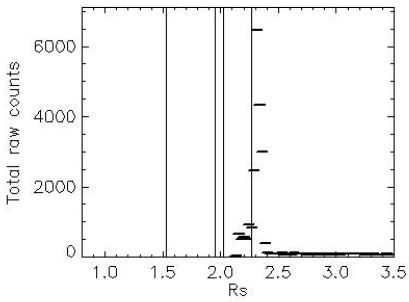
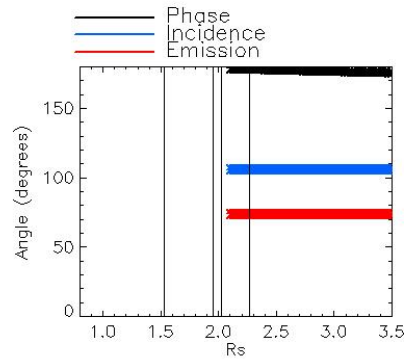
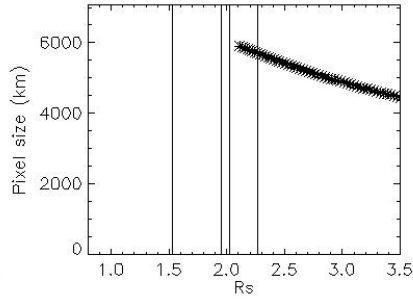
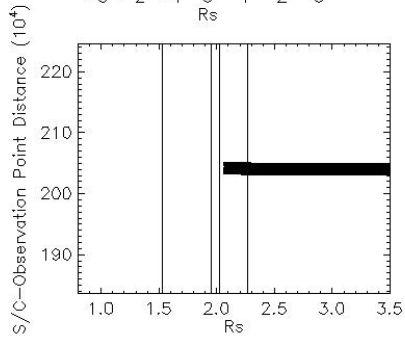


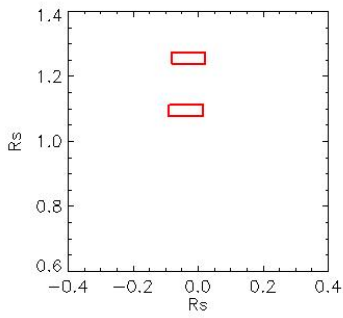
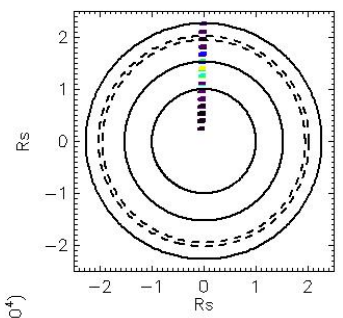
Observation Name:
UMS_028RLHIPHASE001_VIMS

Observation Date:
2006_258_10_36_09

Observation Duration:
600 S

Integration time = 600 S



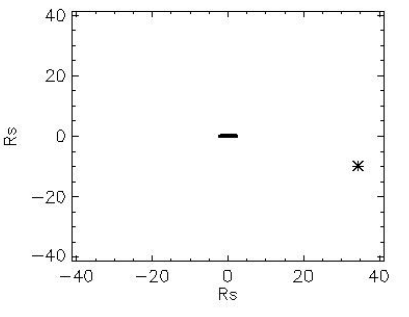
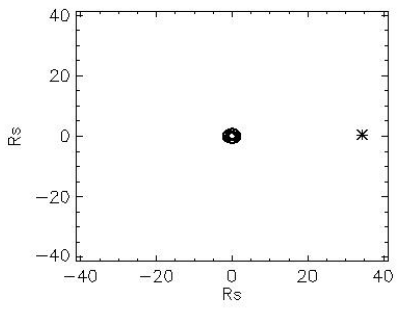
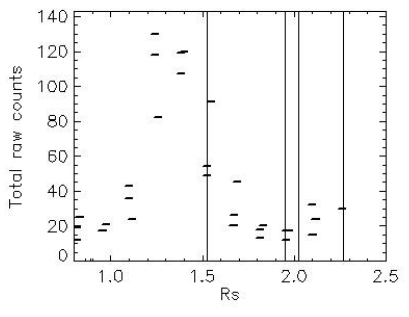
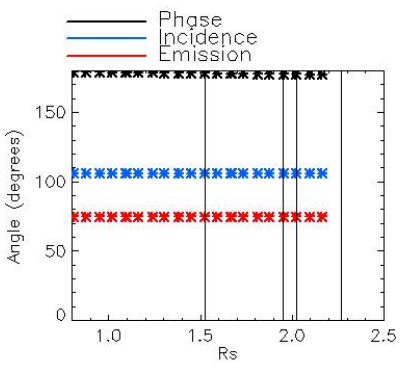
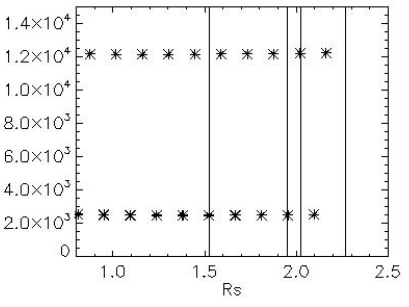
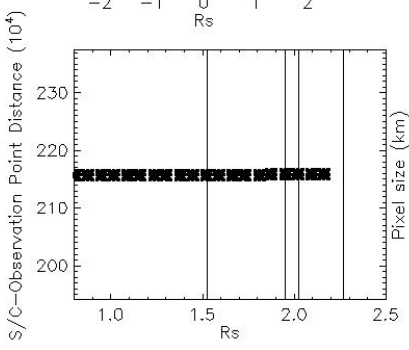


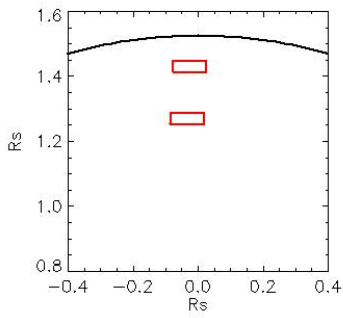
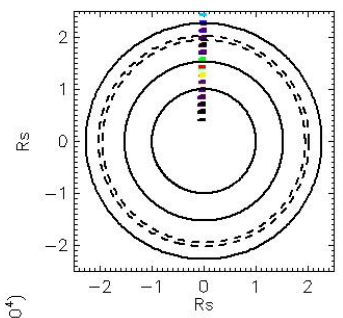
Observation Name:
UMS_028RLHIPHNAC001_ISS_1

Observation Date:
2006_258_13_23_20

Observation Duration:
120 S

Integration time = 40 S



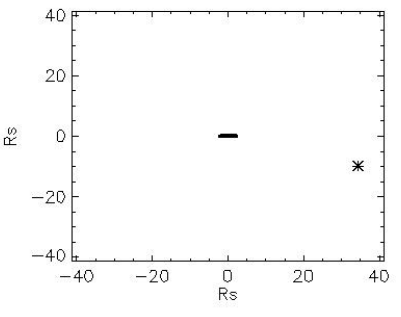
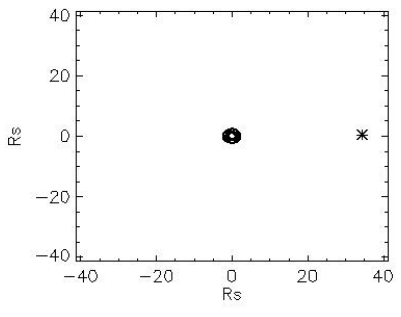
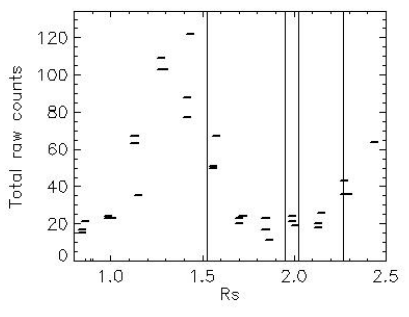
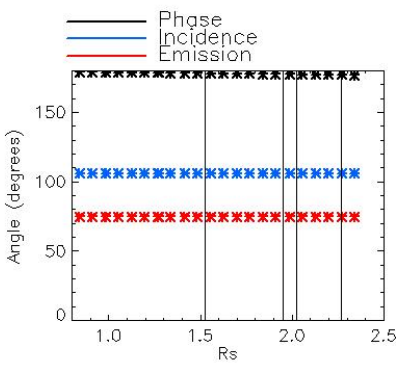
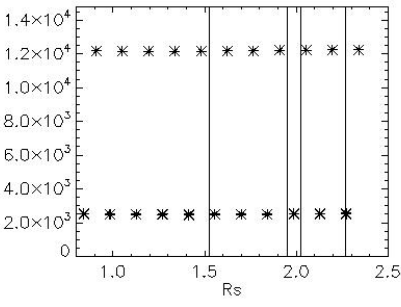
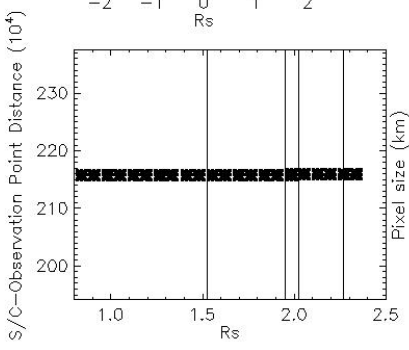


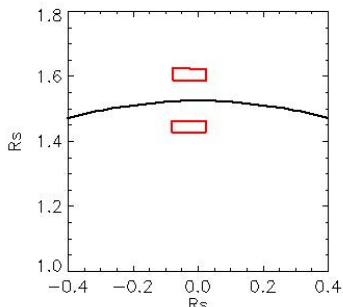
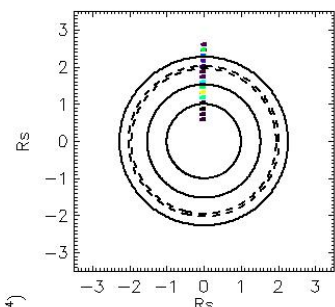
Observation Name:
UMS_028RLHIPHNAC001_ISS_1

Observation Date:
2006_258_13_25_34

Observation Duration:
120 S

Integration time = 40 S



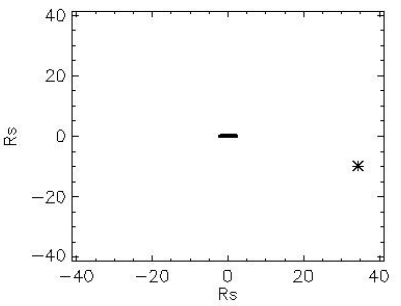
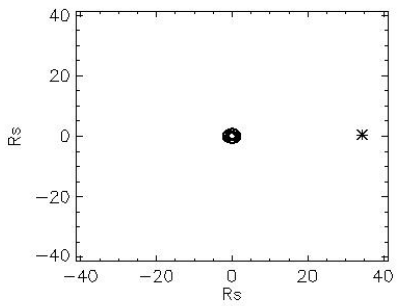
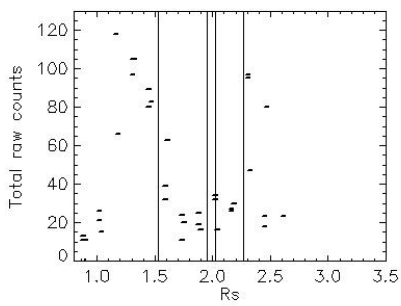
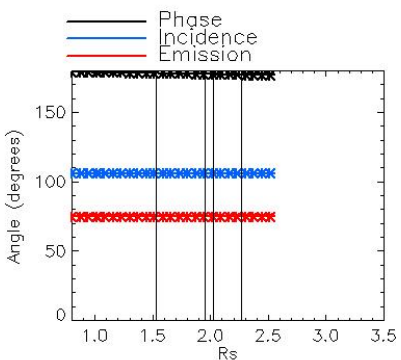
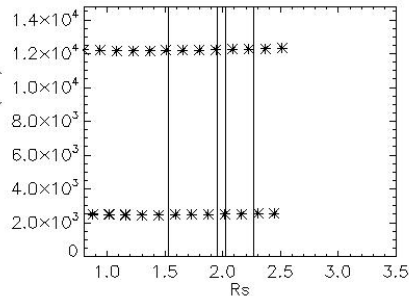
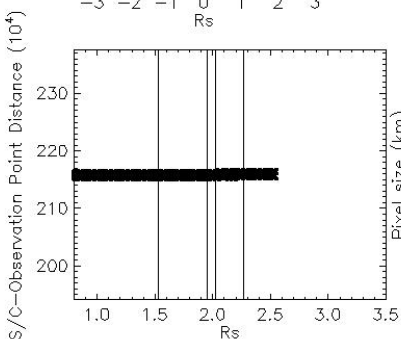


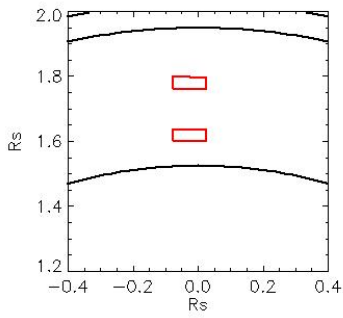
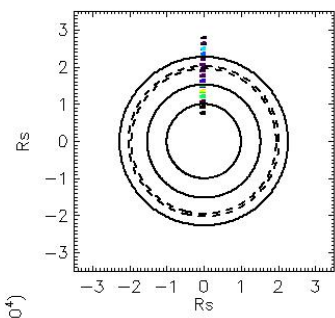
Observation Name:
UMS_028RLHIPHNAC001_ISS_1

Observation Date:
2006_258_13_27_48

Observation Duration:
120 S

Integration time = 40 S



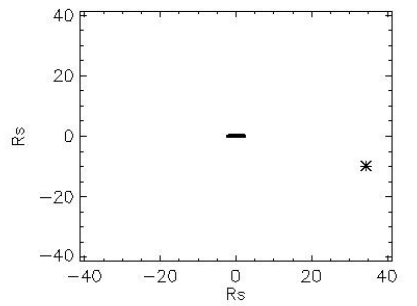
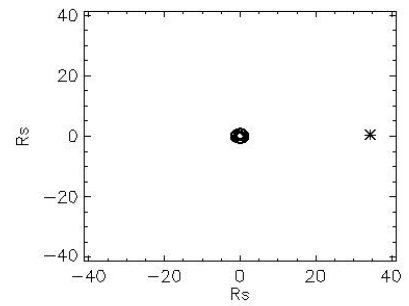
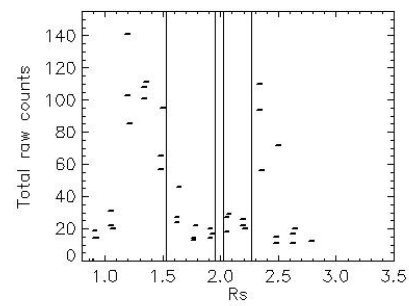
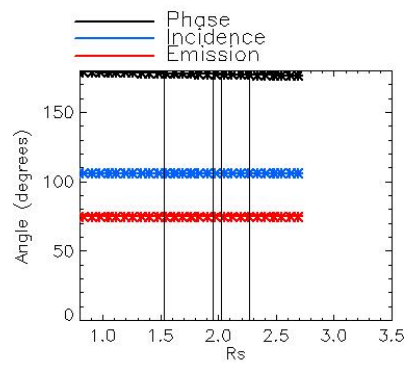
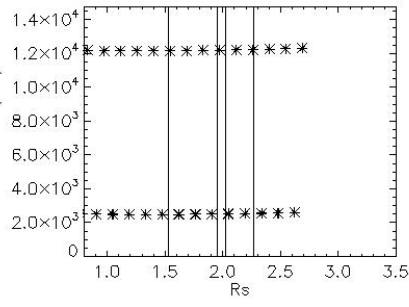
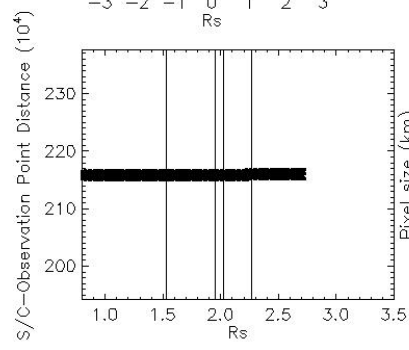


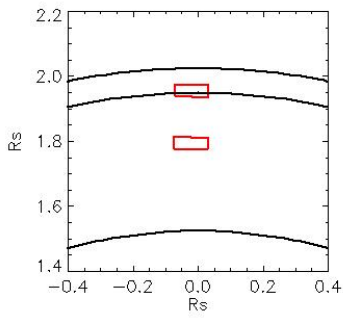
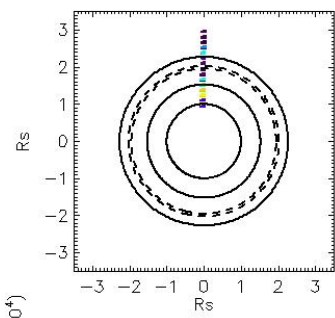
Observation Name:
UMS_028RLHIPHNAC001_ISS_1

Observation Date:
2006_258_13_30_02

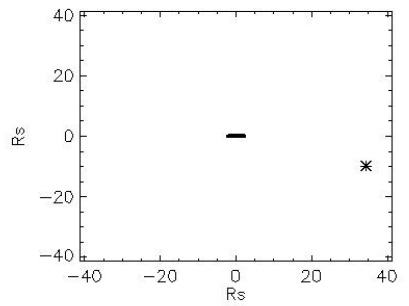
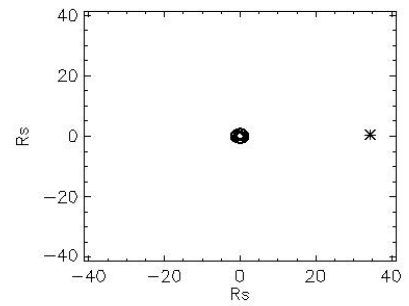
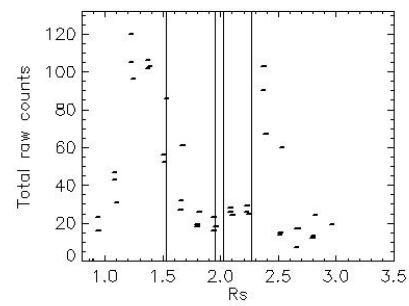
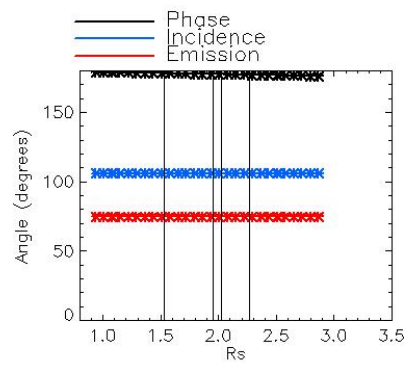
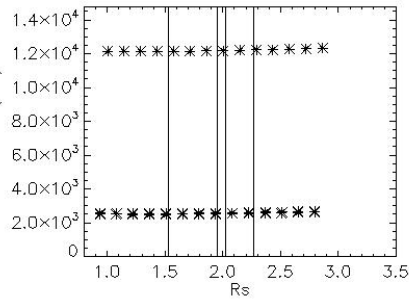
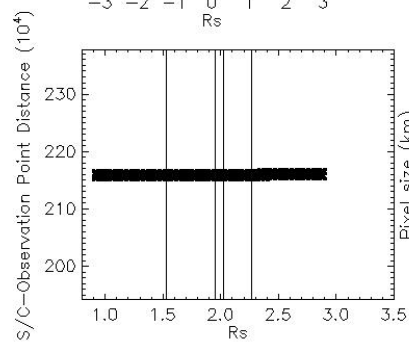
Observation Duration:
120 S

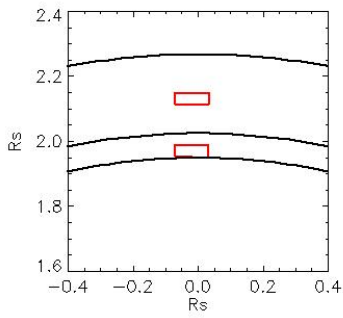
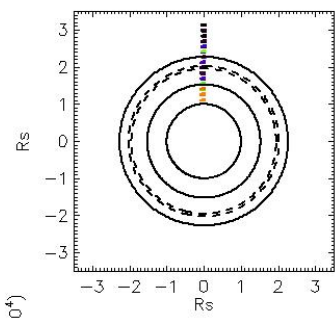
Integration time = 40 S



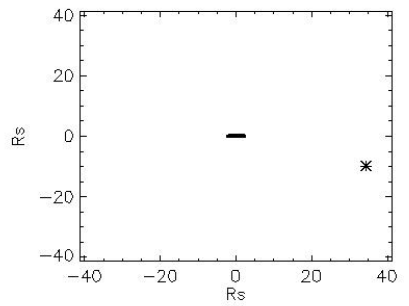
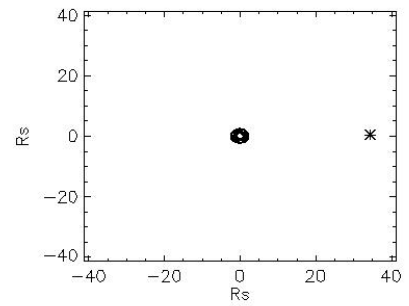
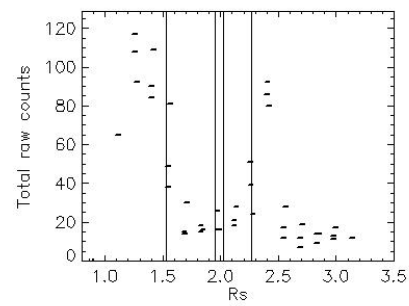
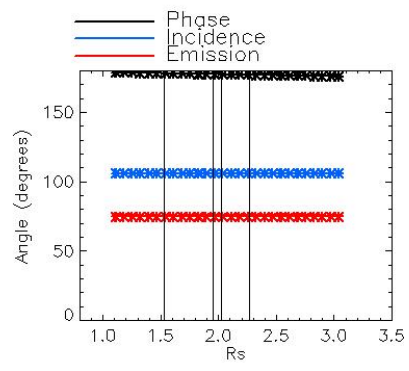
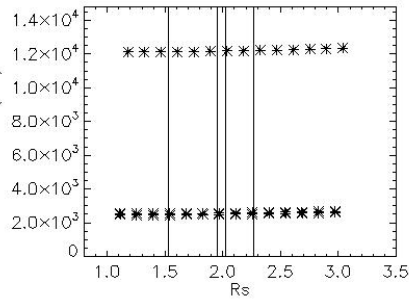
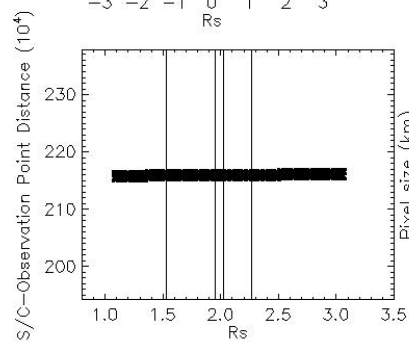


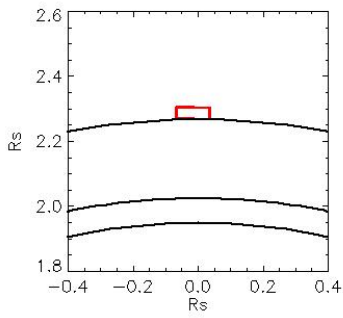
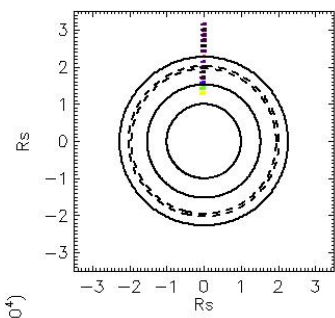
Observation Name:
 UVS_028RLHIPHNAC001_ISS_1
 Observation Date:
 2006_258_13_32_16
 Observation Duration:
 120 S
 Integration time = 40 S





Observation Name:
UMS_028RLHIPHNAC001_ISS_1
Observation Date:
2006_258_13_34_30
Observation Duration:
120 S
Integration time = 40 S



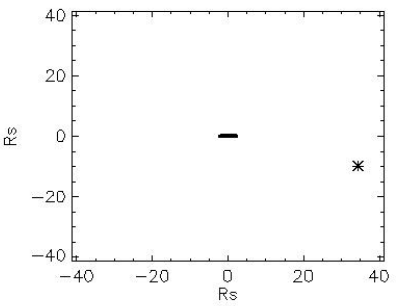
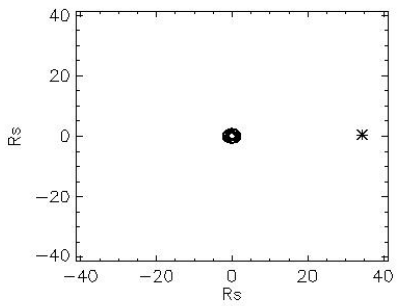
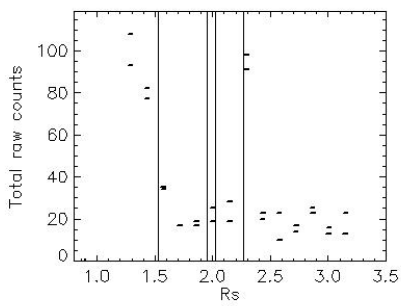
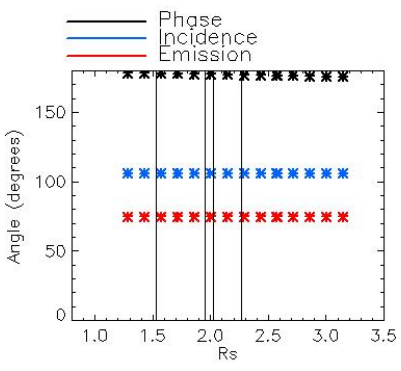
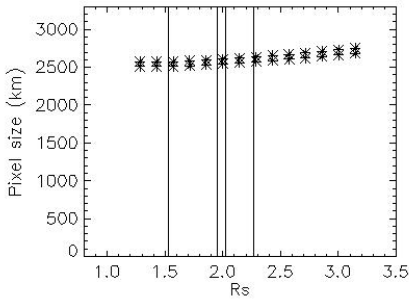
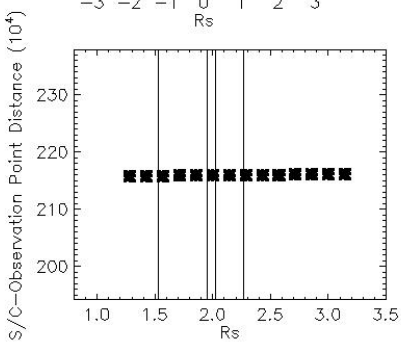


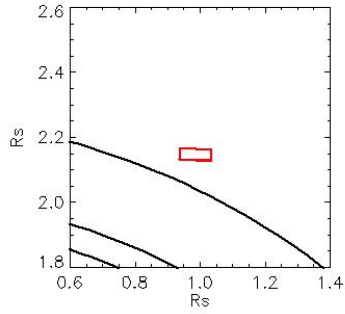
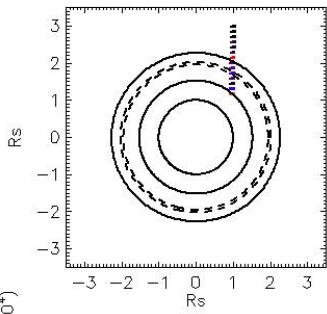
Observation Name:
UMS_028RLHIPHNAC001_ISS_1

Observation Date:
2006_258_13_36_44

Observation Duration:
80 S

Integration time = 40 S



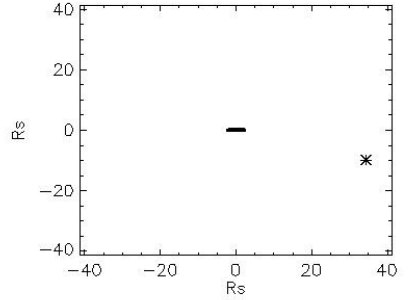
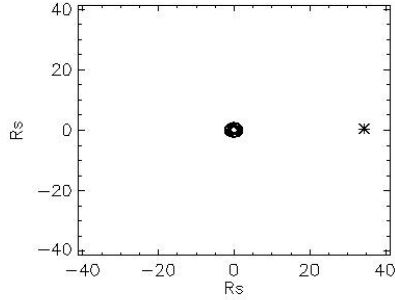
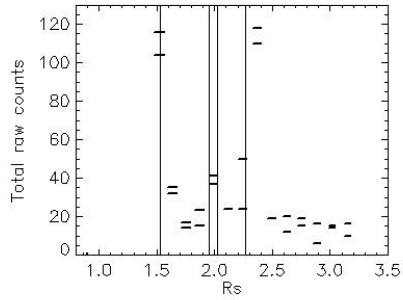
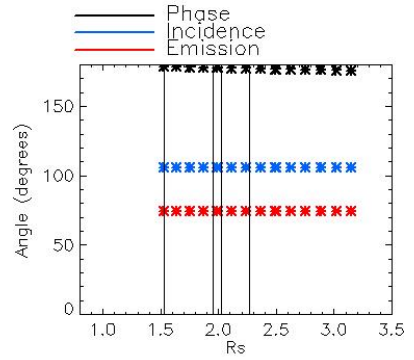
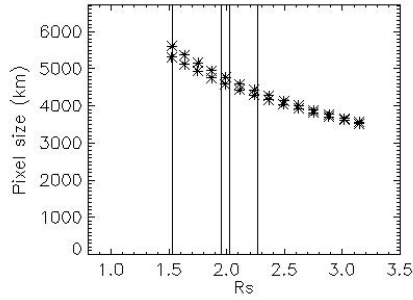
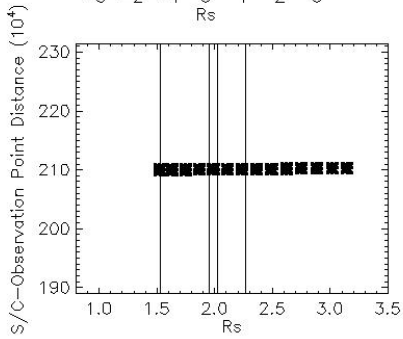


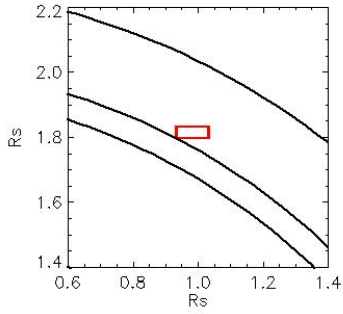
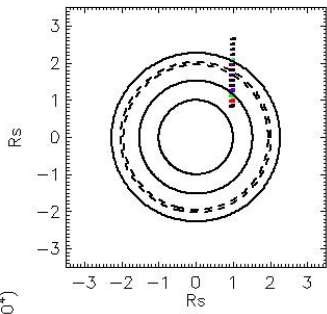
Observation Name:
UVIS_028RLHIPHNAC001_ISS_1

Observation Date:
2006_258_13_39_20

Observation Duration:
80 S

Integration time = 40 S



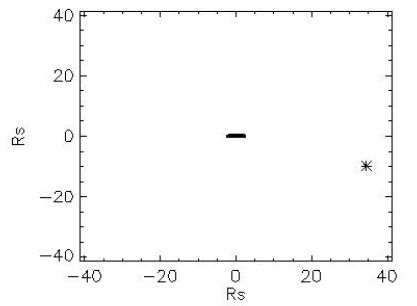
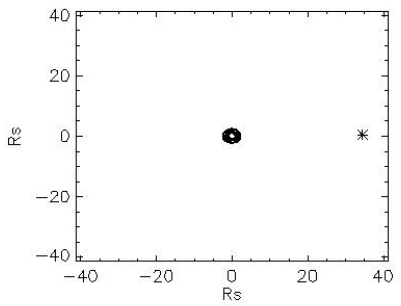
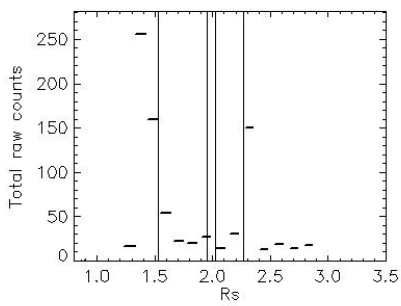
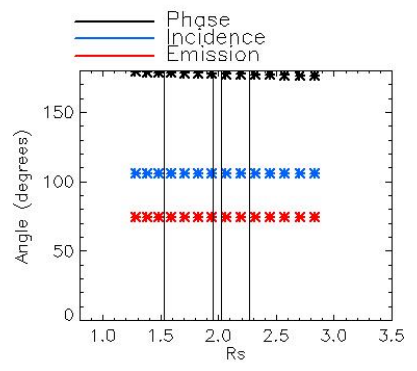
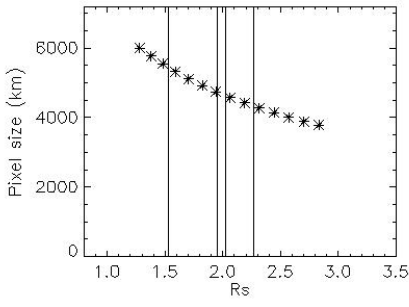
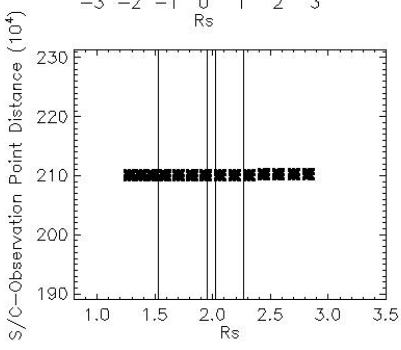


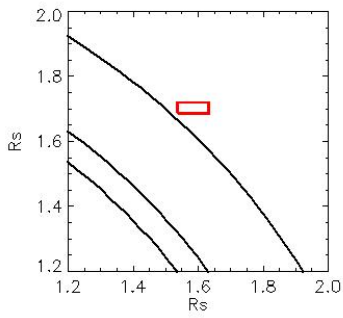
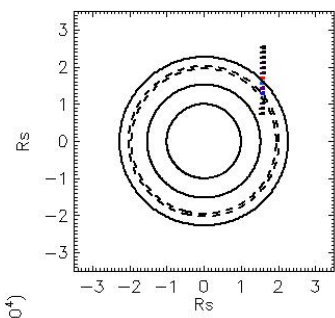
Observation Name:
UMS_028RLHIPHNAC001_ISS_1

Observation Date:
2006_258_13_42_40

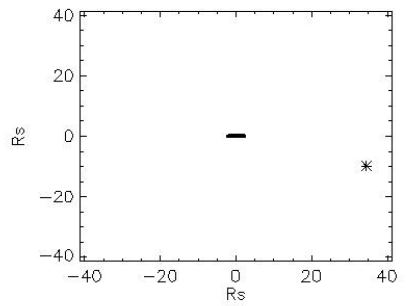
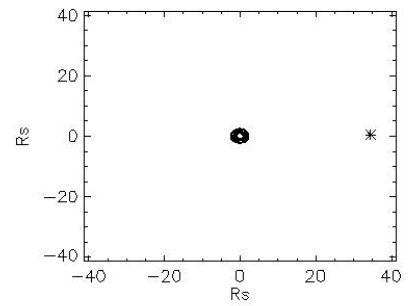
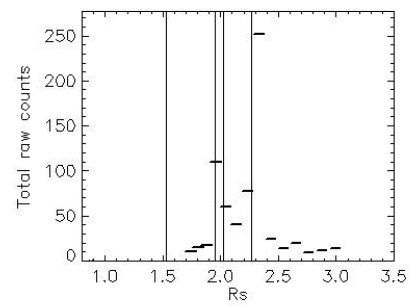
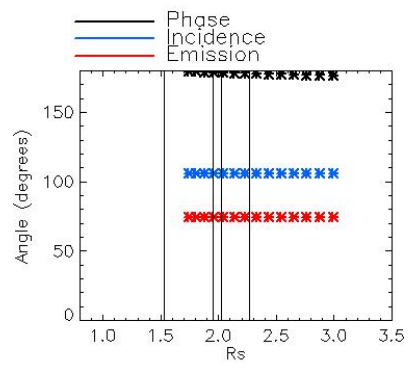
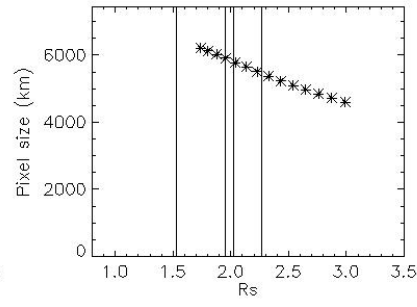
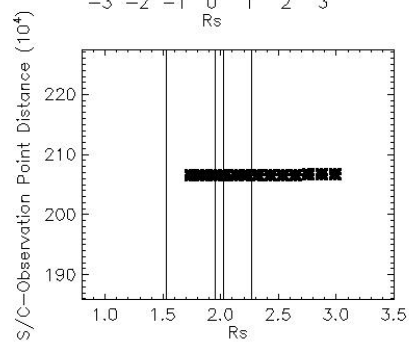
Observation Duration:
40 S

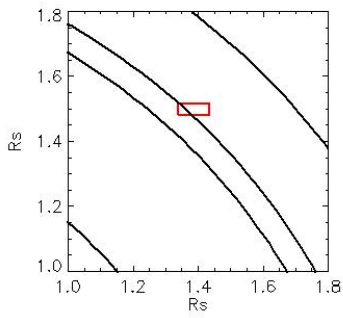
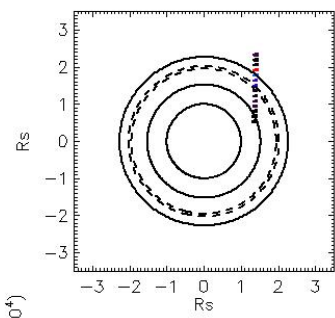
Integration time = 40 S





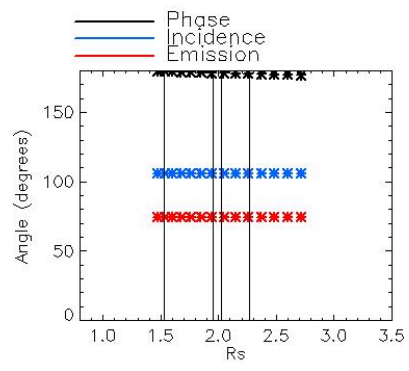
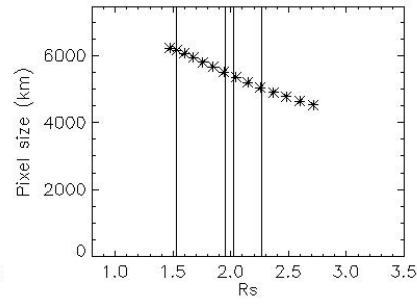
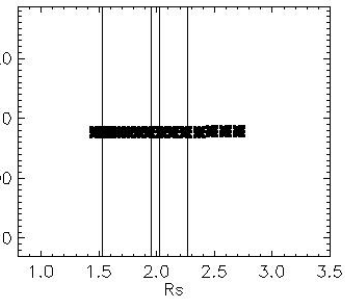
Observation Name:
 UVS_028RLHIPHNAC001_ISS_1
 Observation Date:
 2006_258_13_44_50
 Observation Duration:
 40 S
 Integration time = 40 S



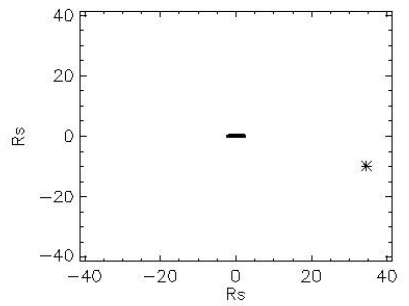
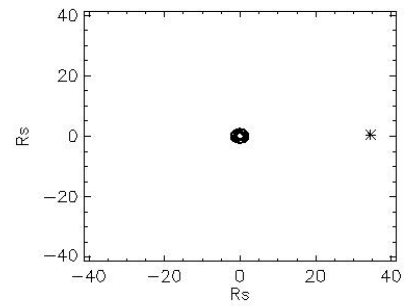
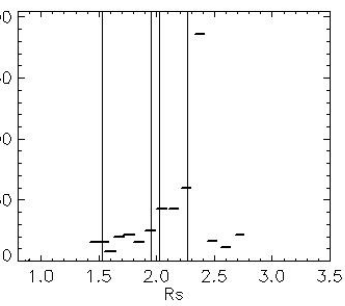


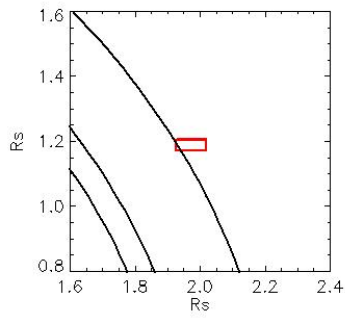
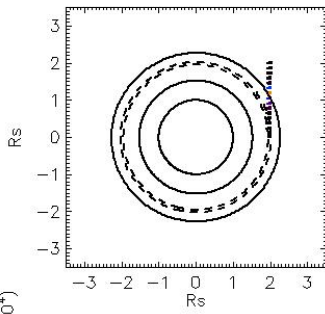
Observation Name:
 UVS_028RLHIPHNAC001_ISS_1
 Observation Date:
 2006_258_13_47_15
 Observation Duration:
 40 S
 Integration time = 40 S

S/C—Observation Point Distance (10^4)



Total raw counts



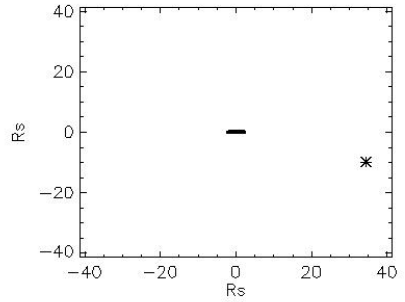
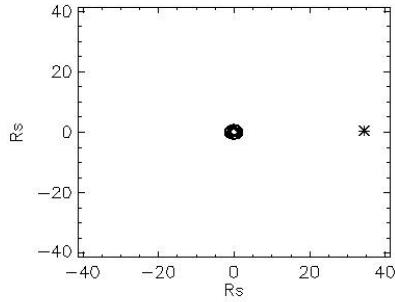
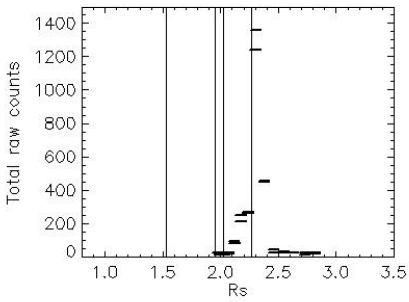
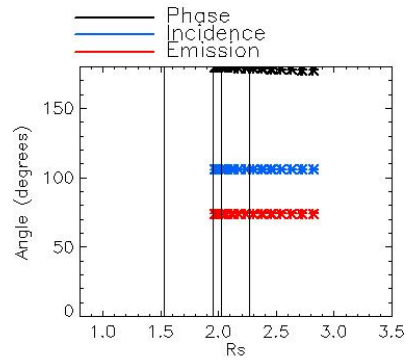
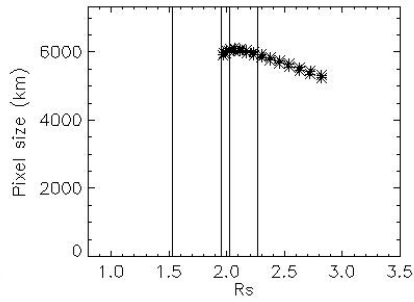
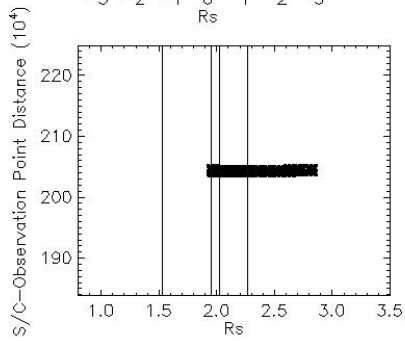


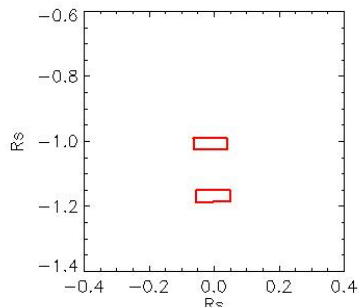
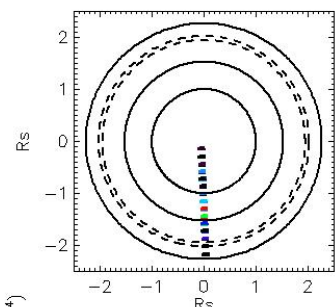
Observation Name:
UMS_028RLHIPHNAC001_ISS_1

Observation Date:
2006_258_13_49_50

Observation Duration:
80 S

Integration time = 40 S



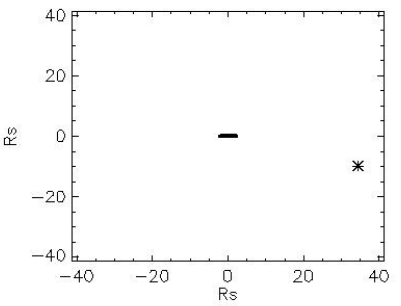
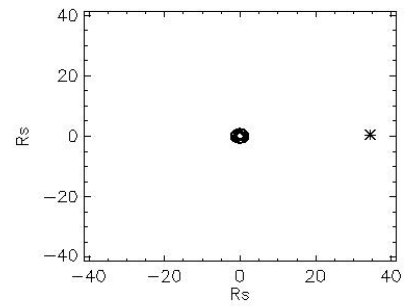
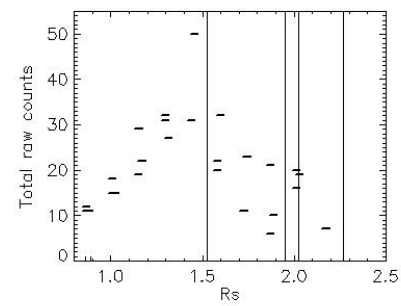
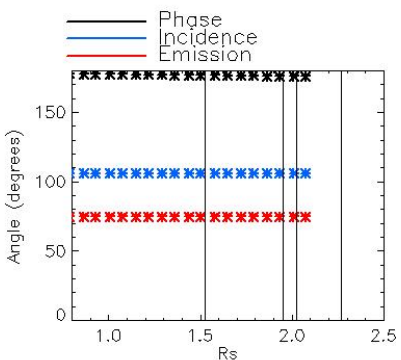
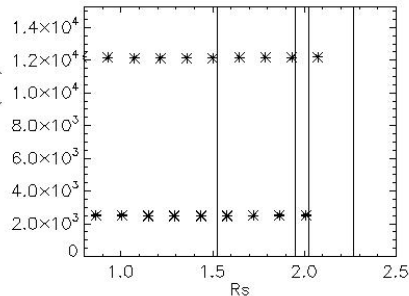
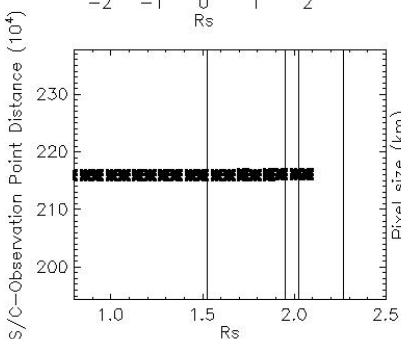


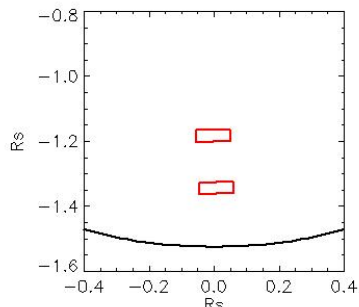
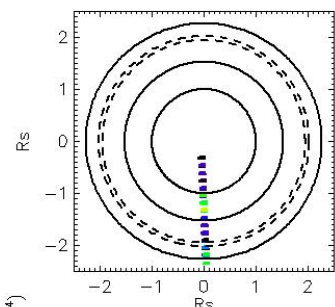
Observation Name:
UVS_028RLHIPHNAC001_ISS_1

Observation Date:
2006_258_13_55_45

Observation Duration:
120 S

Integration time = 40 S



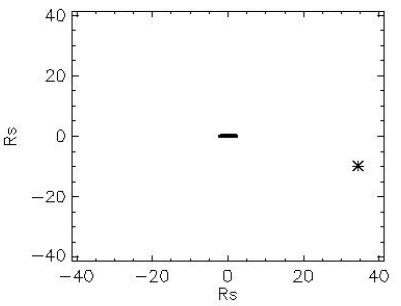
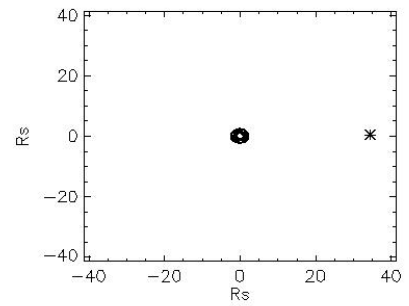
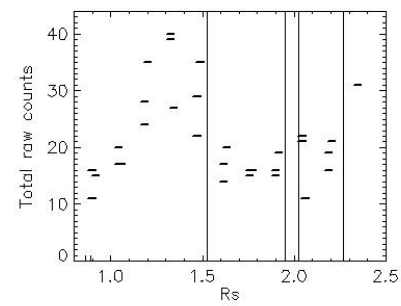
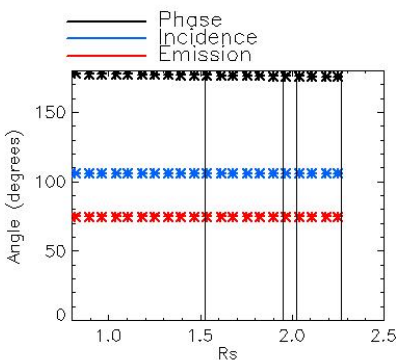
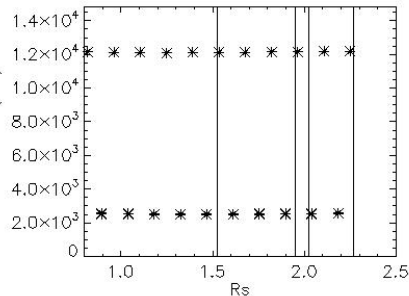
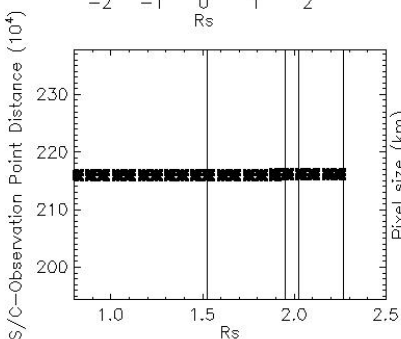


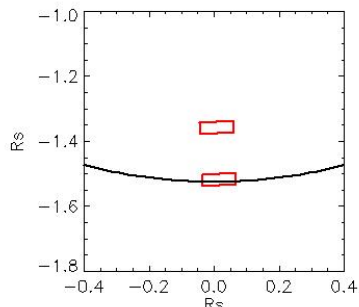
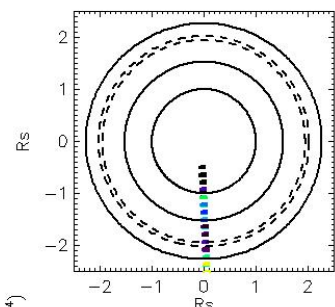
Observation Name:
UMS_028RLHIPHNAC001_ISS_1

Observation Date:
2006_258_13_57_59

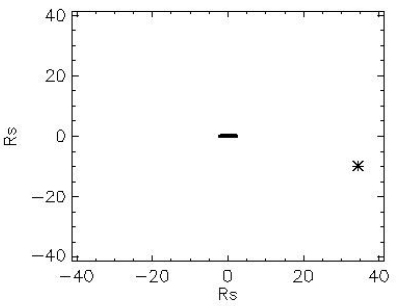
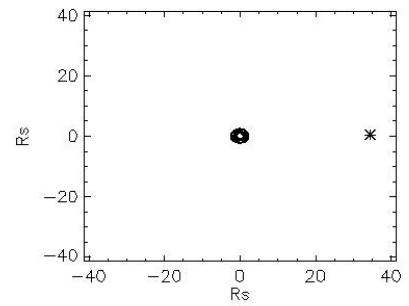
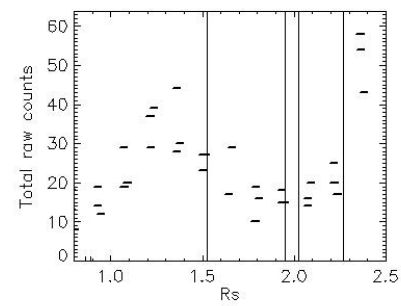
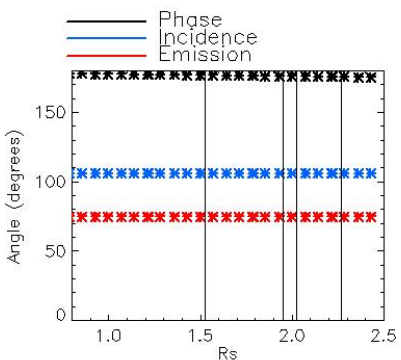
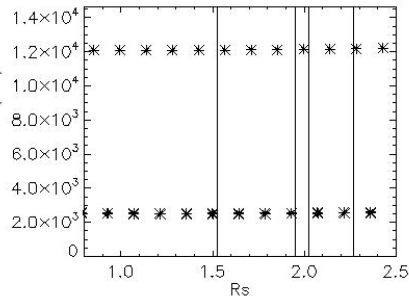
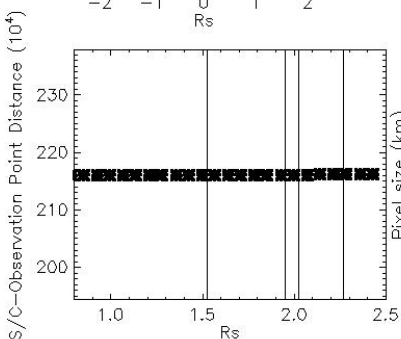
Observation Duration:
120 S

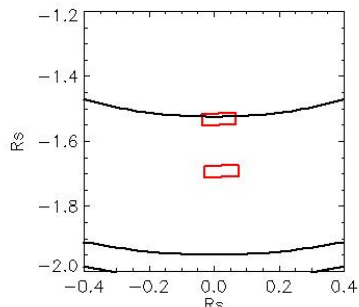
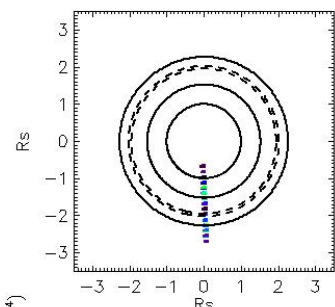
Integration time = 40 S



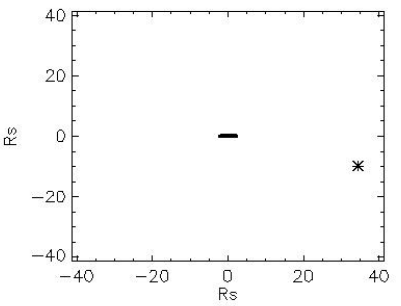
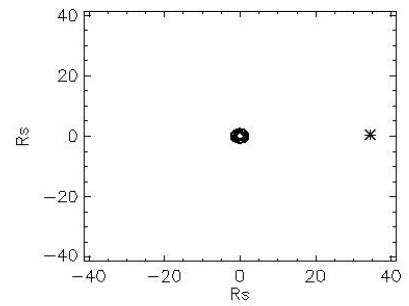
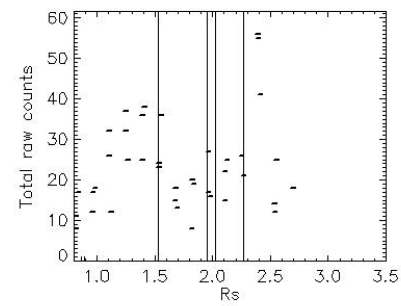
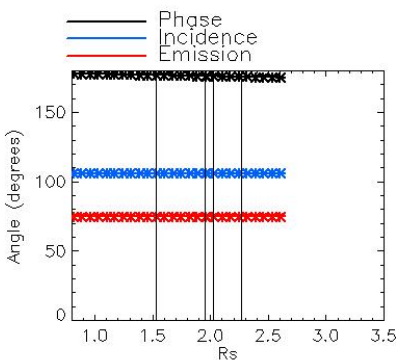
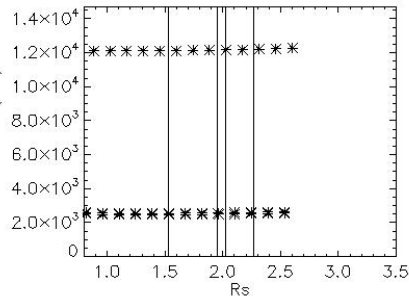
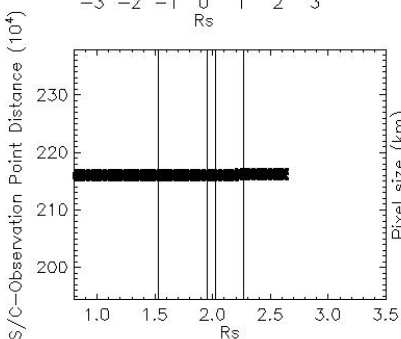


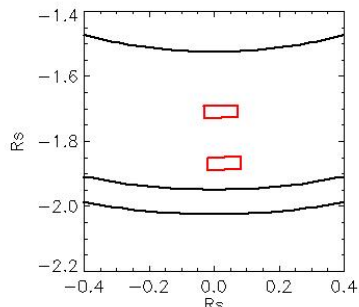
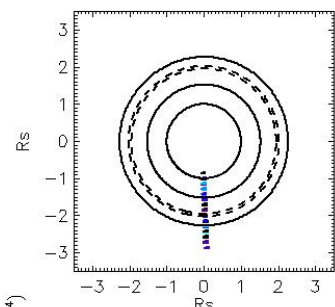
Observation Name:
 UVS_028RLHIPHNAC001_ISS_1
 Observation Date:
 2006_258_14_00_13
 Observation Duration:
 120 S
 Integration time = 40 S





Observation Name:
 UVS_028RLHIPHNAC001_ISS_1
 Observation Date:
 2006_258_14_02_27
 Observation Duration:
 120 S
 Integration time = 40 S



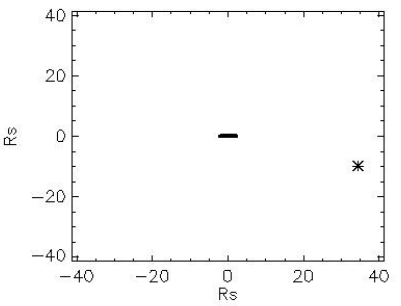
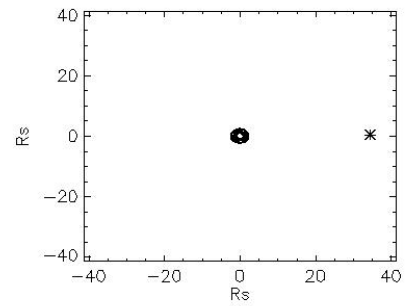
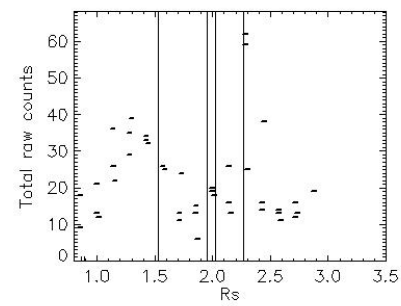
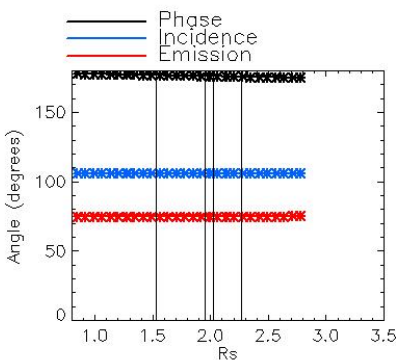
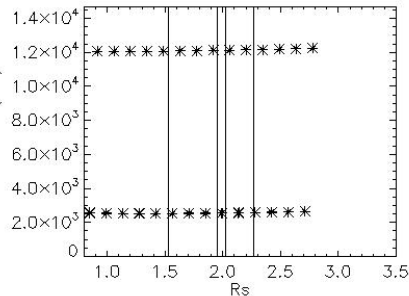
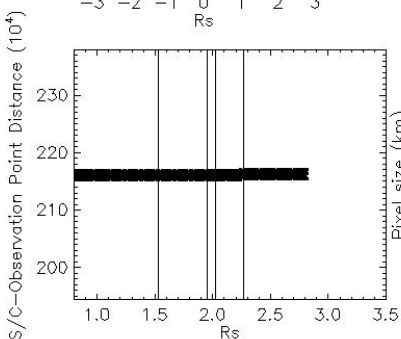


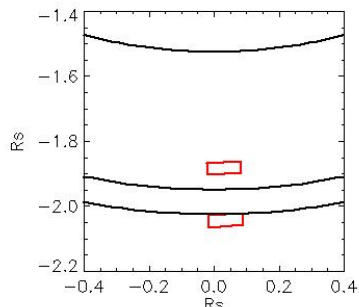
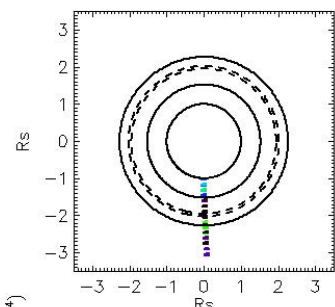
Observation Name:
UMS_028RLHIPHNAC001_ISS_1

Observation Date:
2006_258_14_04_41

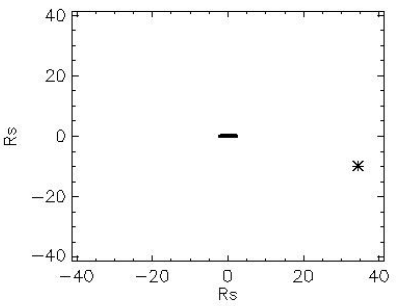
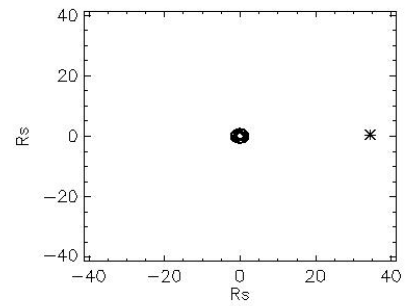
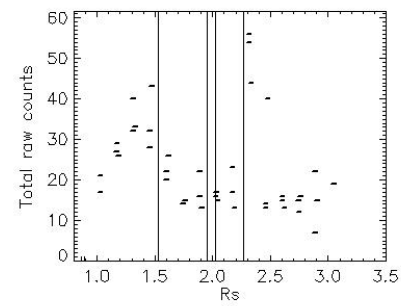
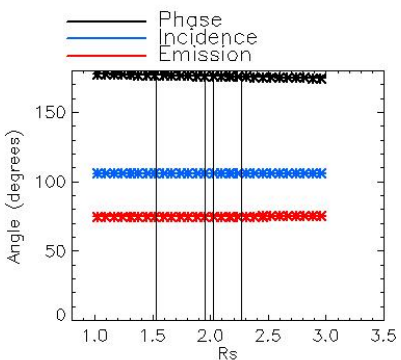
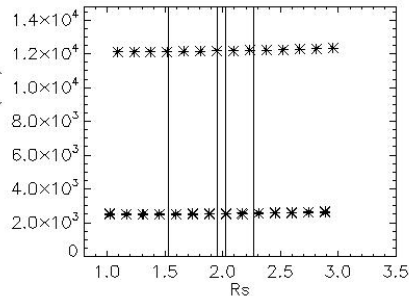
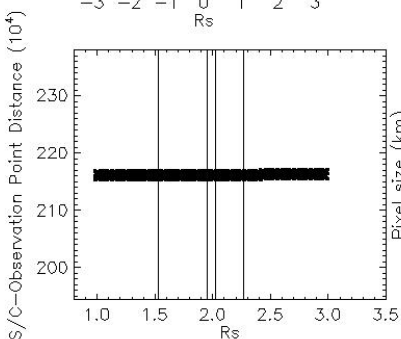
Observation Duration:
120 S

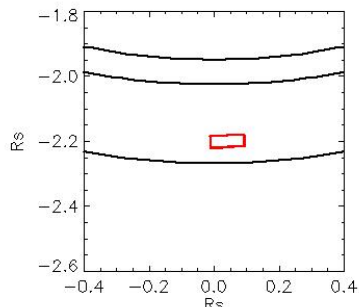
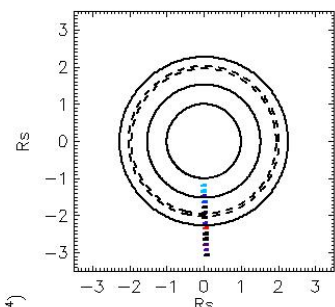
Integration time = 40 S





Observation Name:
UMS_028RLHIPHNAC001_ISS_1
Observation Date:
2006_258_14_06_55
Observation Duration:
120 S
Integration time = 40 S



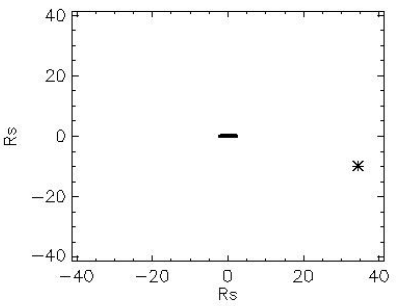
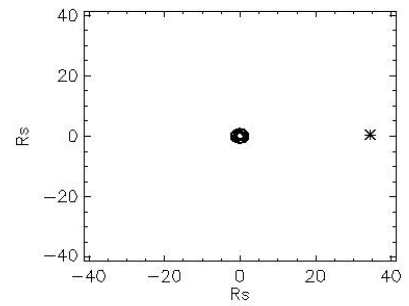
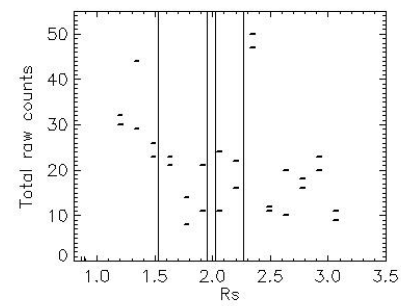
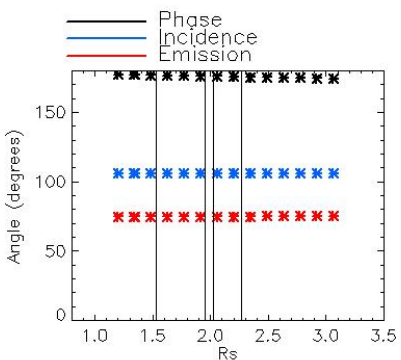
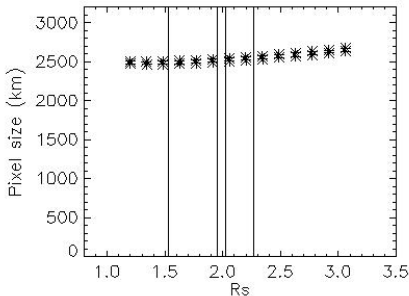
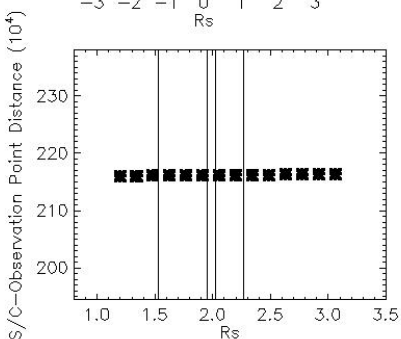


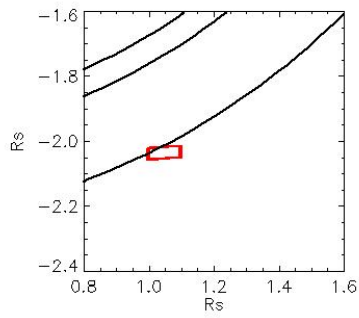
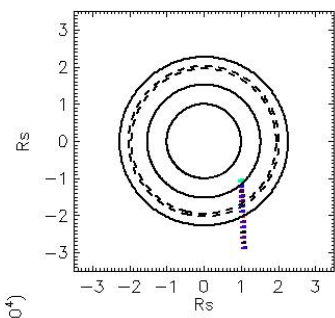
Observation Name:
UMS_028RLHIPHNAC001_ISS_1

Observation Date:
2006_258_14_09_09

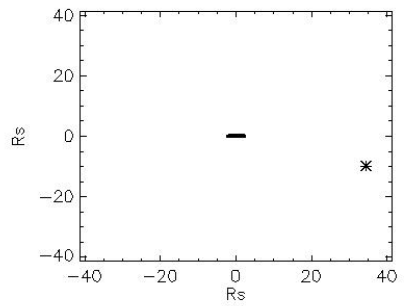
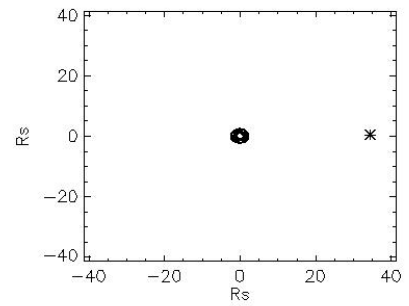
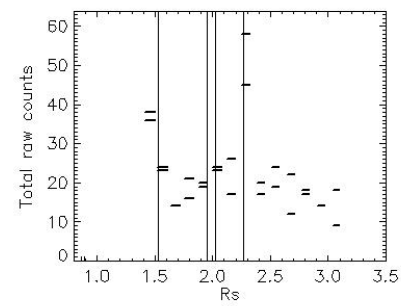
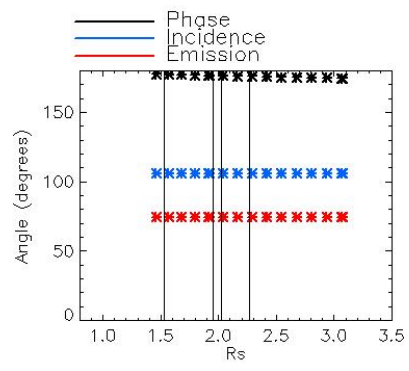
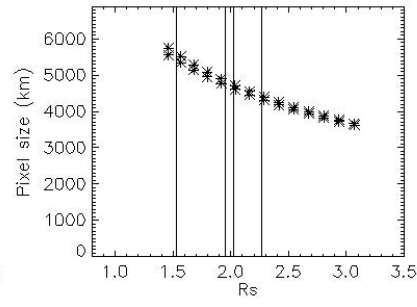
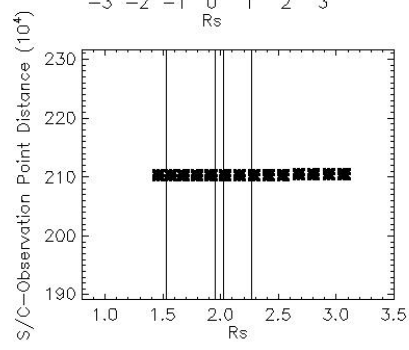
Observation Duration:
80 S

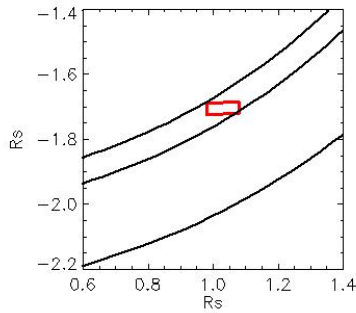
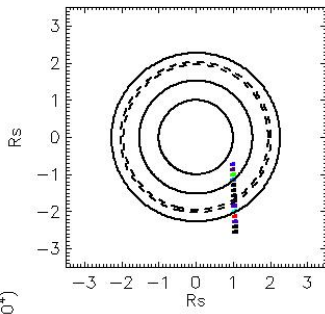
Integration time = 40 S





Observation Name:
 UVS_028RLHIPHNAC001_ISS_1
 Observation Date:
 2006_258_14_11_45
 Observation Duration:
 80 S
 Integration time = 40 S



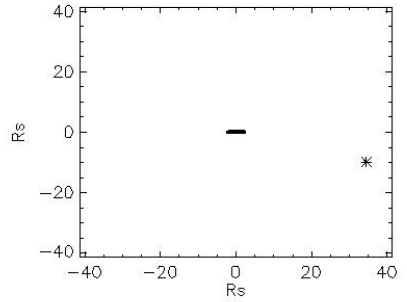
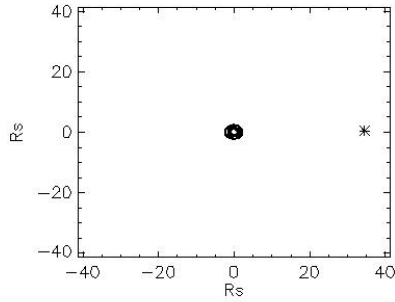
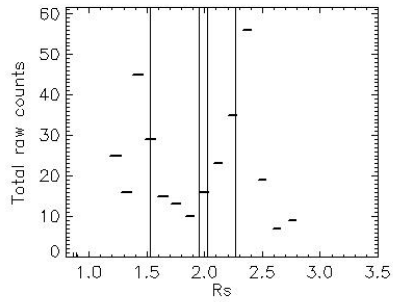
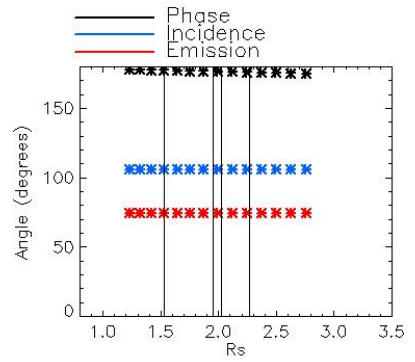
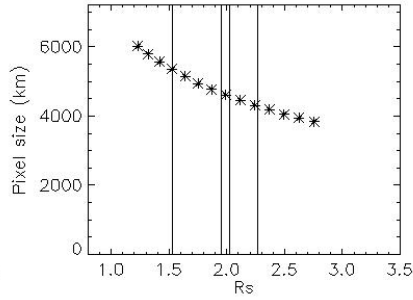
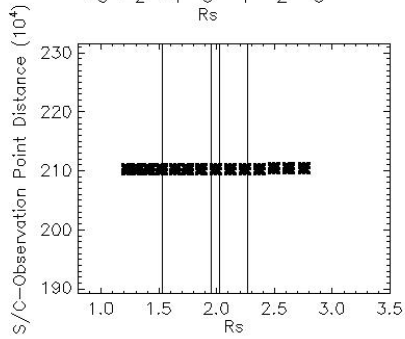


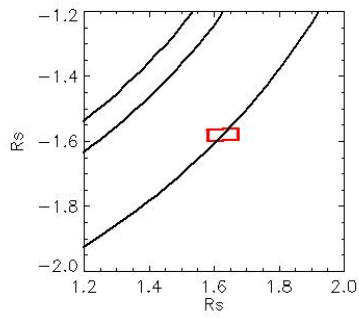
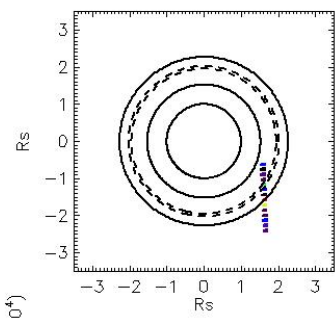
Observation Name:
UVIS_028RLHIPHNAC001_ISS_1

Observation Date:
2006_258_14_15_05

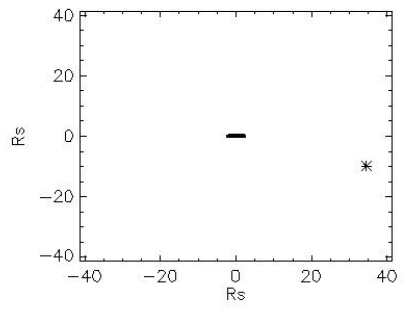
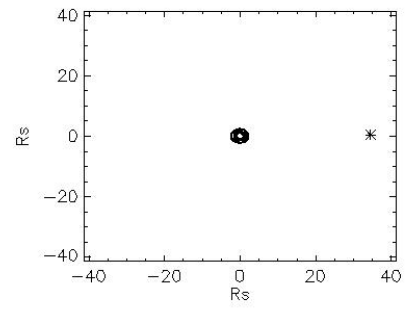
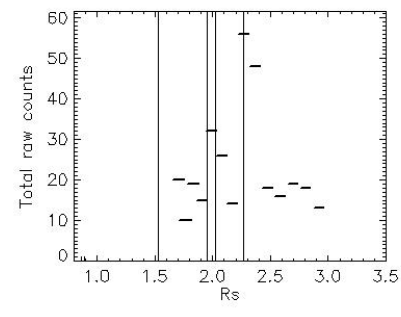
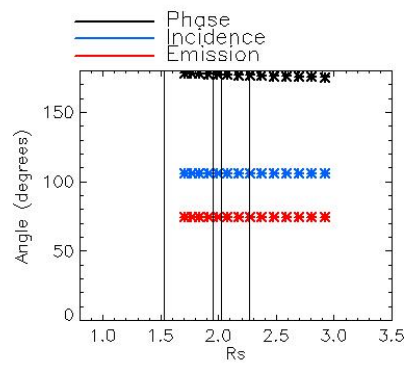
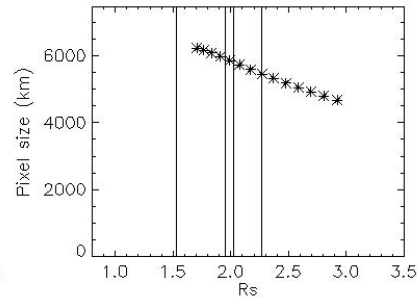
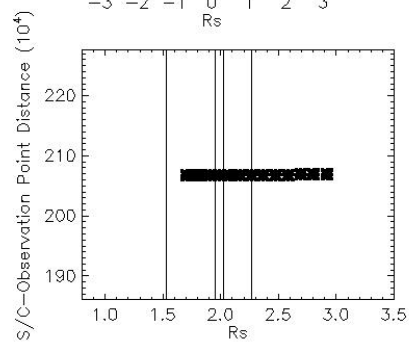
Observation Duration:
40 S

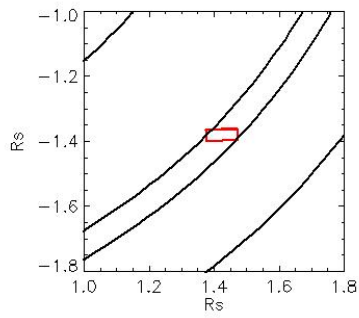
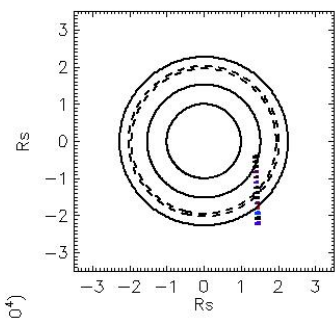
Integration time = 40 S



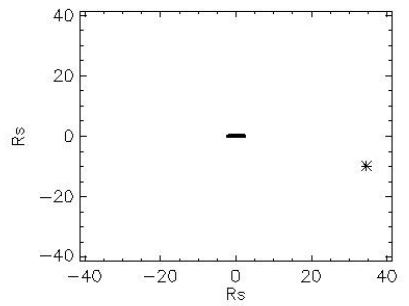
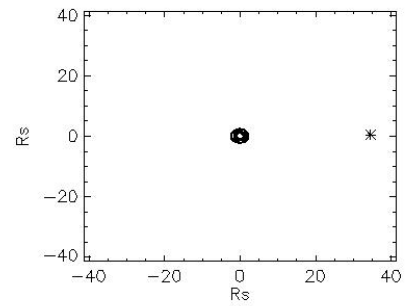
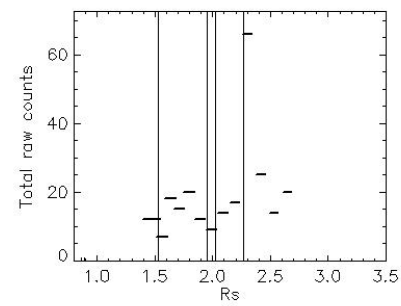
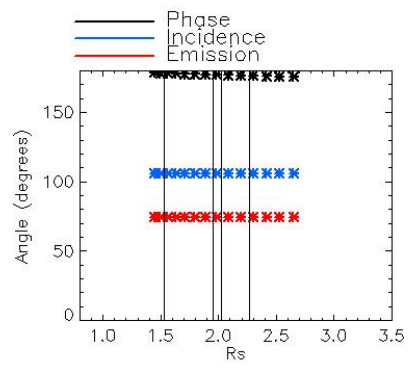
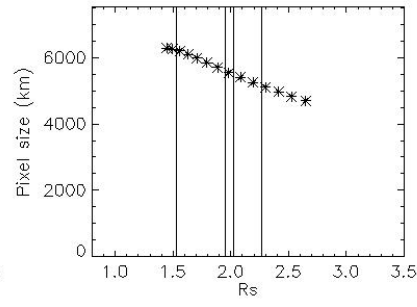
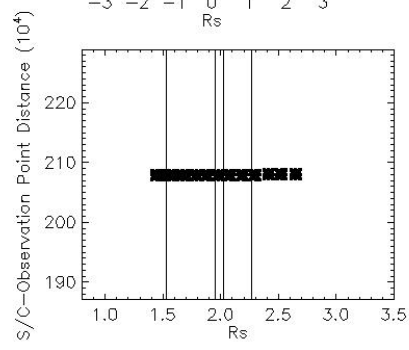


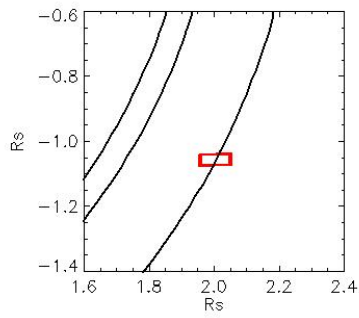
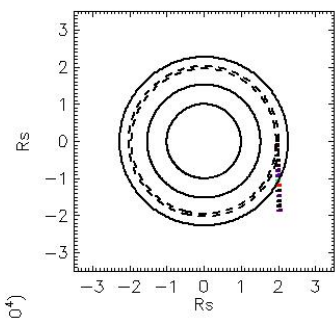
Observation Name:
 UVS_028RLHIPHNAC001_ISS_1
 Observation Date:
 2006_258_14_17_15
 Observation Duration:
 40 S
 Integration time = 40 S



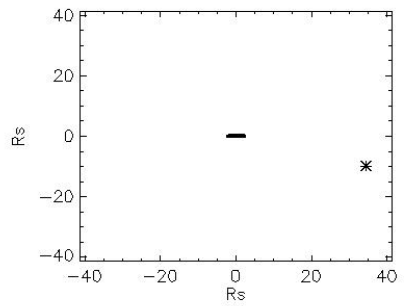
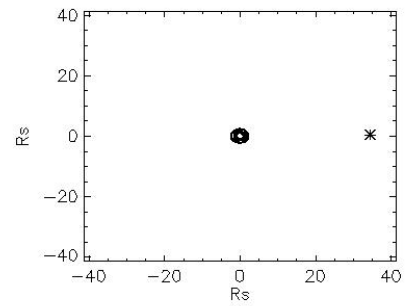
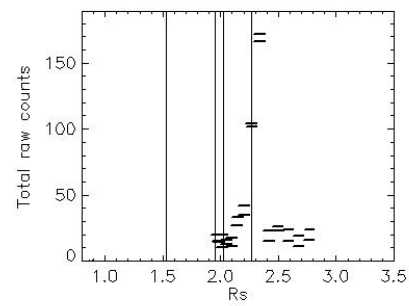
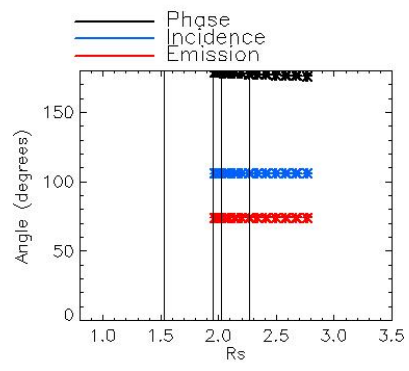
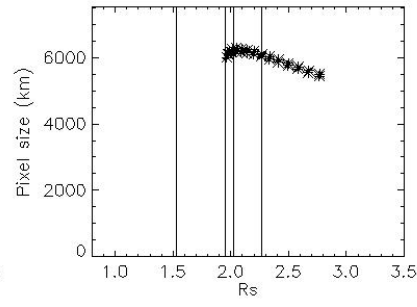
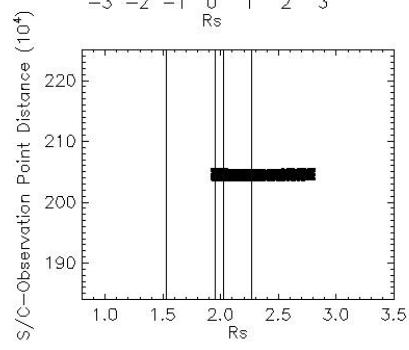


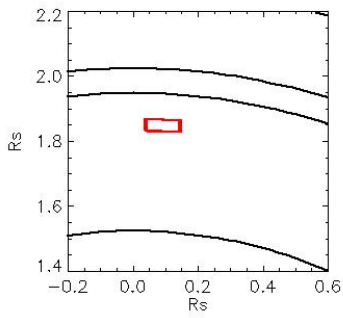
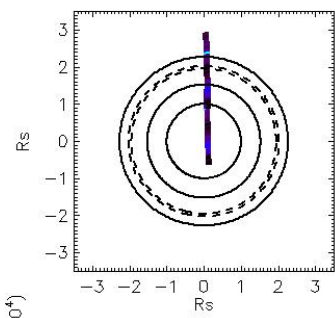
Observation Name:
 UVS_028RLHIPHNAC001_ISS_1
 Observation Date:
 2006_258_14_19_40
 Observation Duration:
 40 S
 Integration time = 40 S





Observation Name:
 UVS_028RLHIPHNAC001_ISS_1
 Observation Date:
 2006_258_14_22_15
 Observation Duration:
 80 S
 Integration time = 40 S



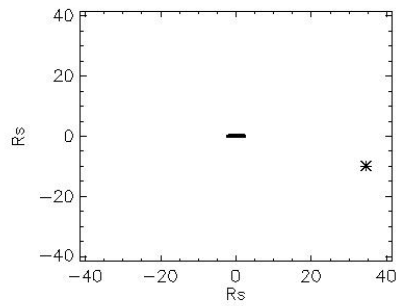
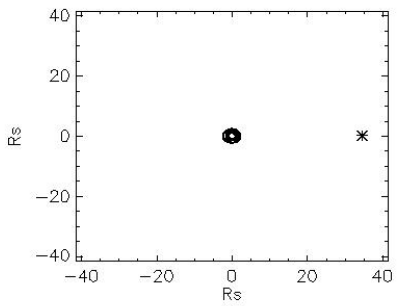
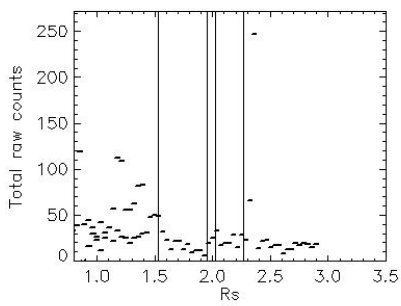
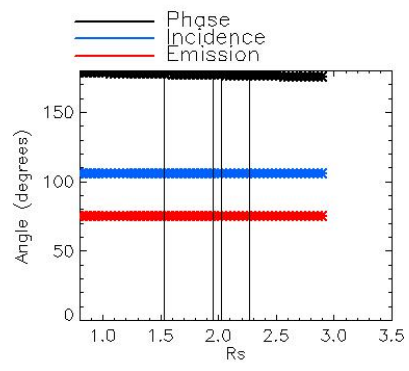
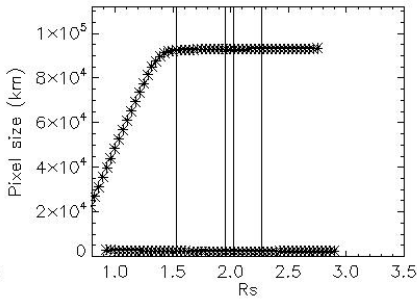
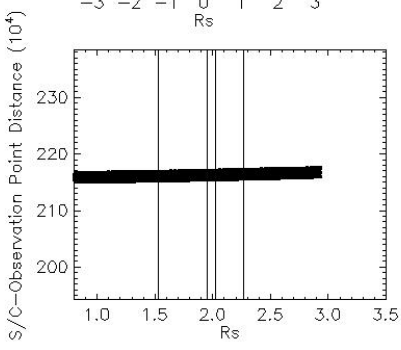


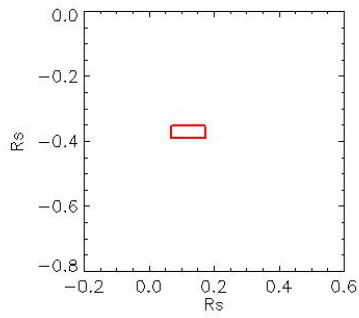
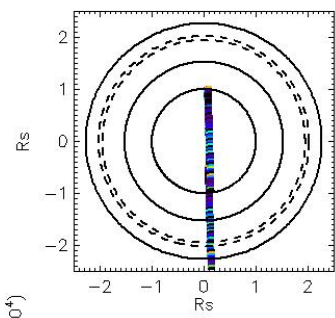
Observation Name:
UMS_028RLHIPHWAC001_ISS_1

Observation Date:
2006_258_15_49_43

Observation Duration:
320 S

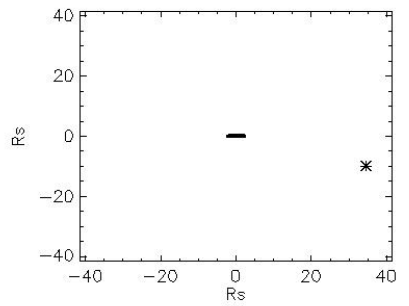
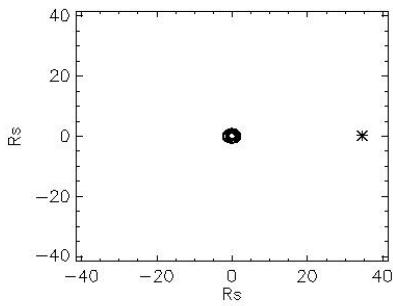
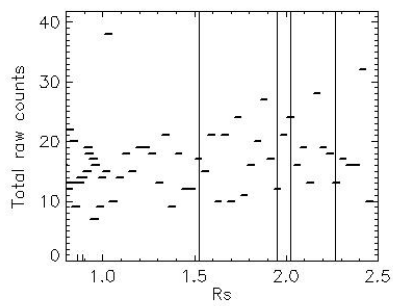
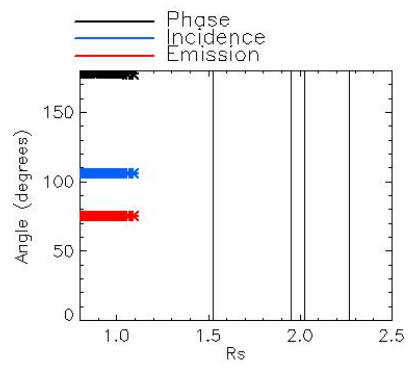
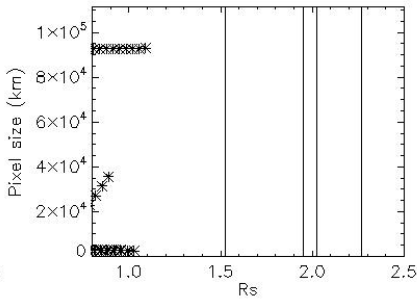
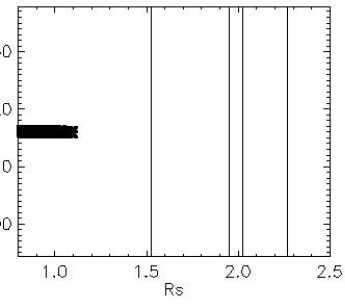
Integration time = 160 S

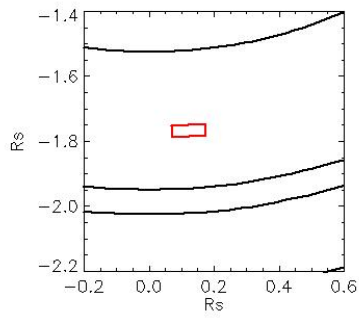
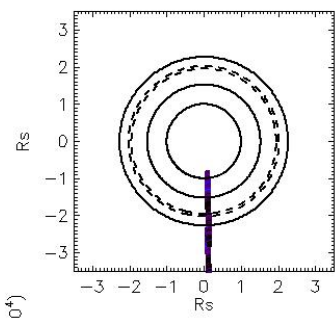




Observation Name:
 UVS_028RLHIPHWAC001_ISS_1
 Observation Date:
 2006_258_15_55_59
 Observation Duration:
 320 S
 Integration time = 160 S

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





Observation Name:
UMS_028RLHIPHWAC001_ISS_1

Observation Date:
2006_258_16_02_15

Observation Duration:
320 S

Integration time = 160 S

