

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.

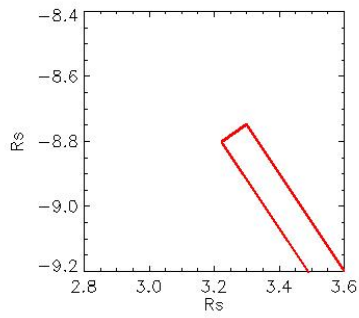
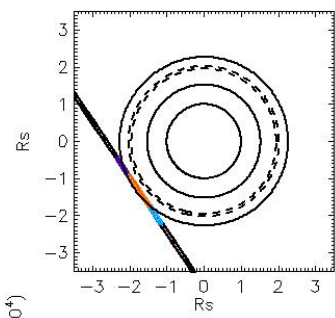
Middle center: Maximum projected smeared pixel size for all data records plotted against the radial location of the projected pixel at the middle of the integration period.

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

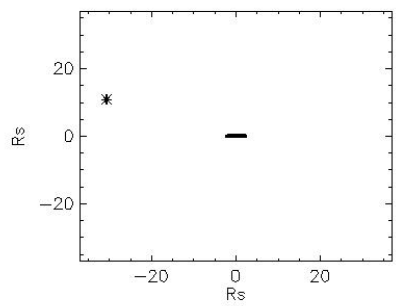
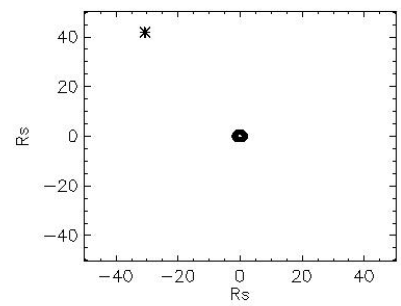
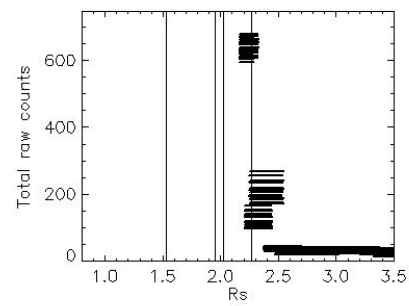
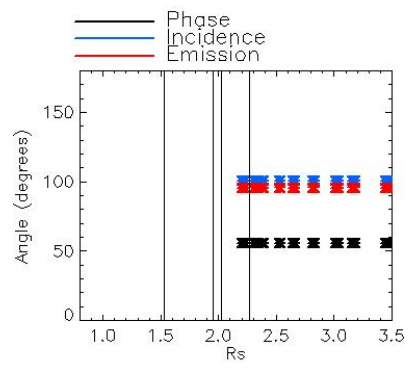
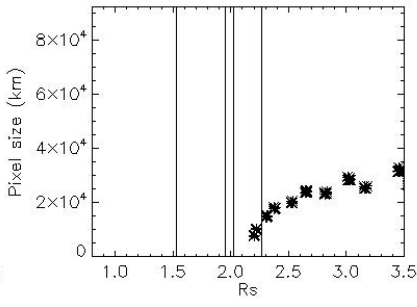
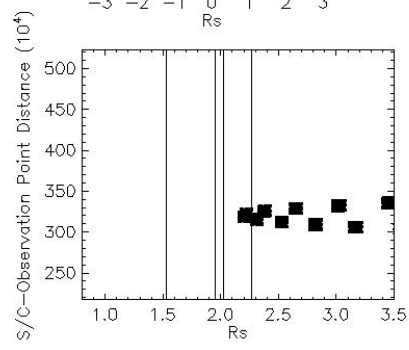
Bottom left: Total raw counts from 175.2 – 189.8 nm for each pixel for all data records.

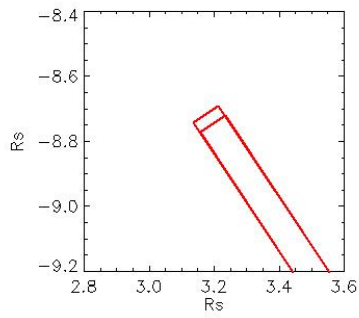
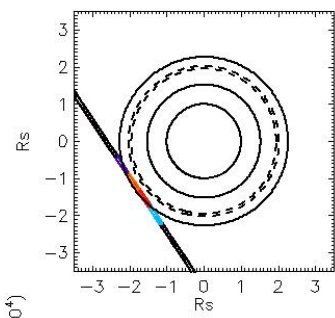
Bottom center: Location of spacecraft throughout an observation looking down on Saturn North Pole with the Sun to the left.

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



Observation Name:
 UVS_050RLFMONITOR001_CIRS
 Observation Date:
 2007_263_21_54_51
 Observation Duration:
 5100 S
 Integration time = 300 S



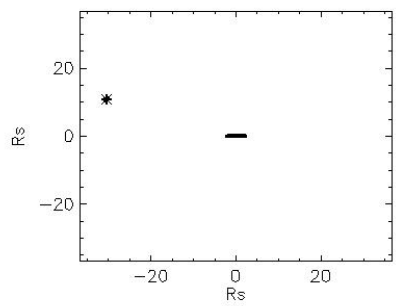
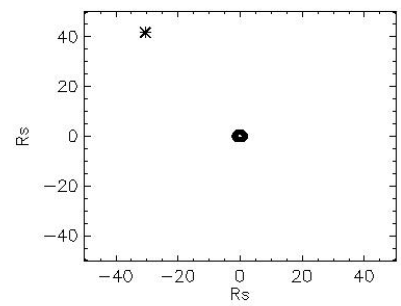
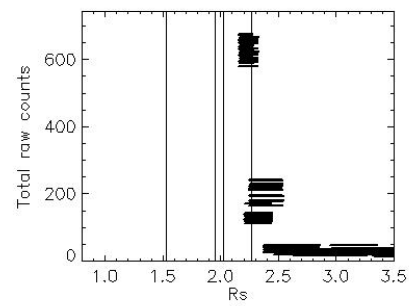
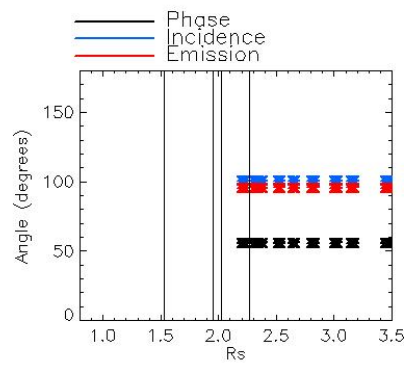
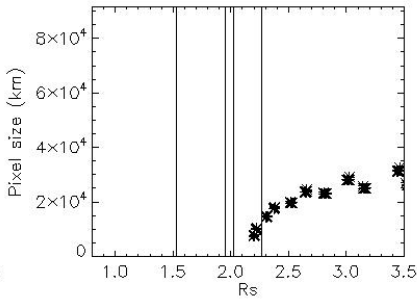
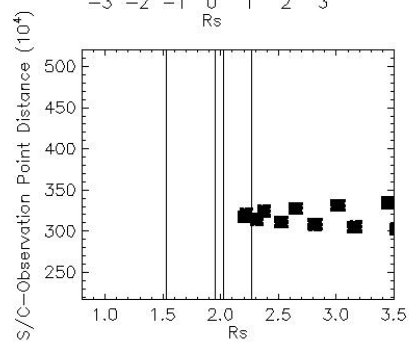


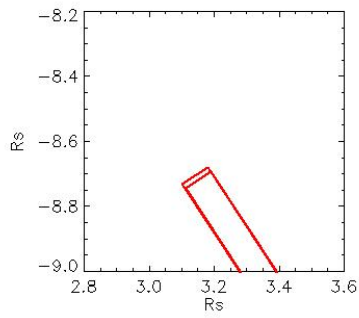
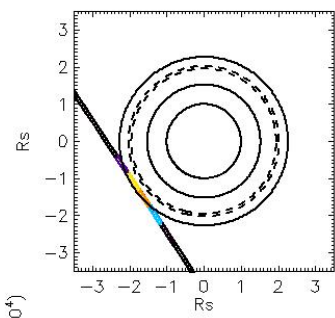
Observation Name:
UVIS_050RLFMONITOR001_CIRS

Observation Date:
2007_263_23_52_50

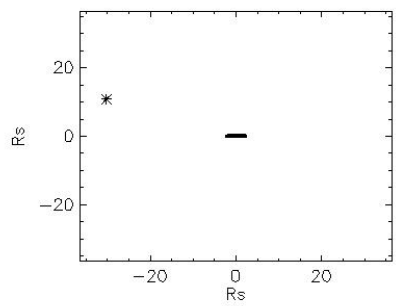
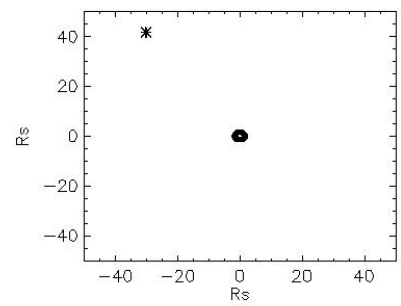
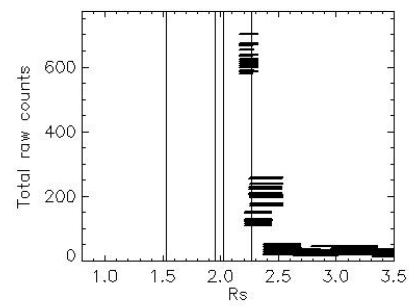
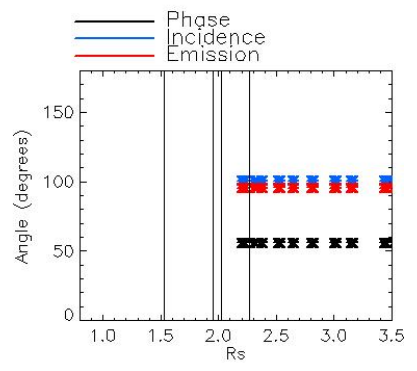
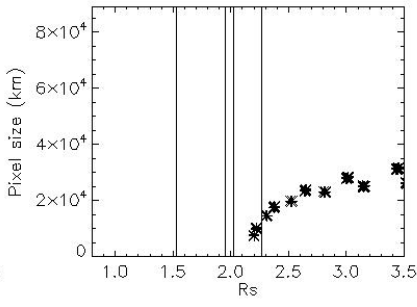
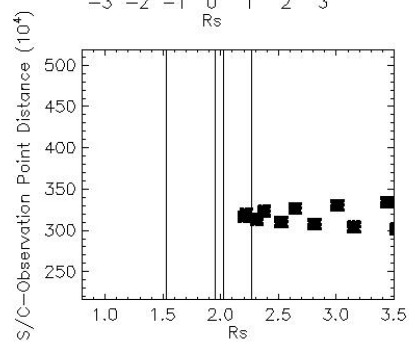
Observation Duration:
5100 S

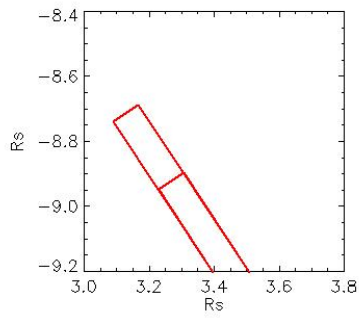
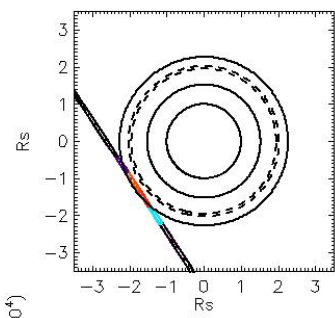
Integration time = 300 S



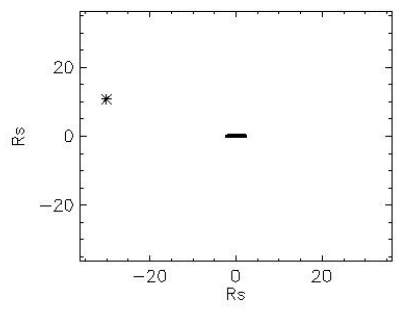
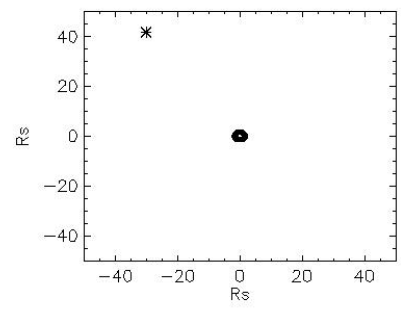
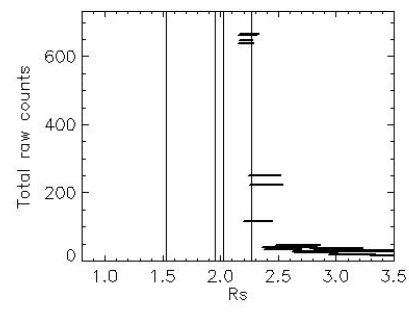
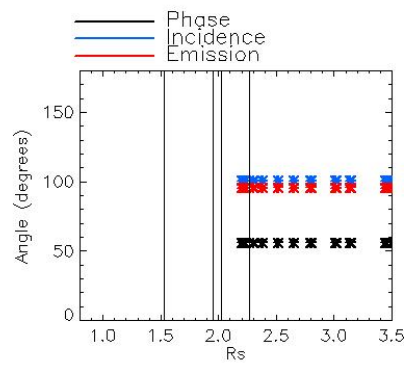
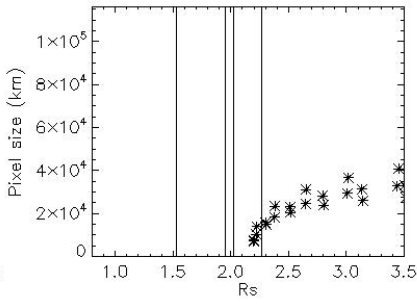
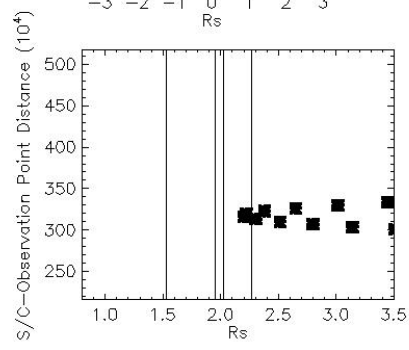


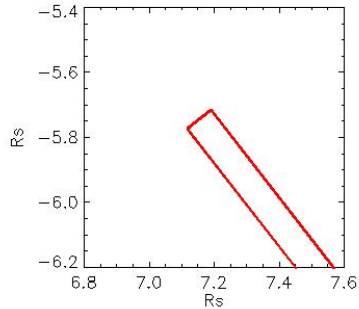
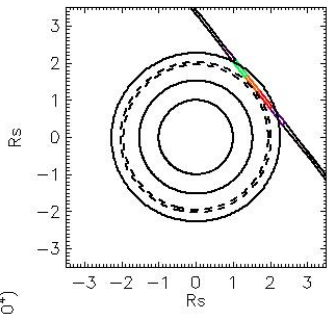
Observation Name:
 UVS_050RLFMONITOR001_CIRS
 Observation Date:
 2007_264_01_50_50
 Observation Duration:
 3600 S
 Integration time = 300 S





Observation Name:
 UVS_050RLFMONITOR01_CIRS
 Observation Date:
 2007_264_03_07_28
 Observation Duration:
 600 S
 Integration time = 300 S



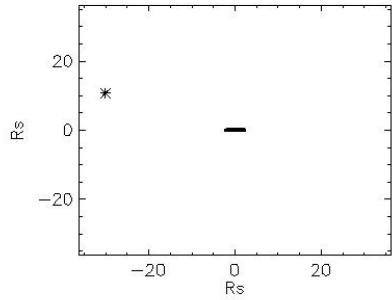
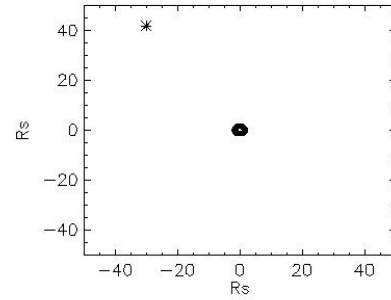
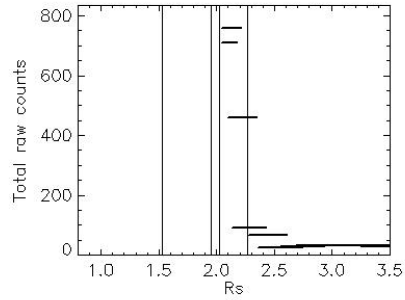
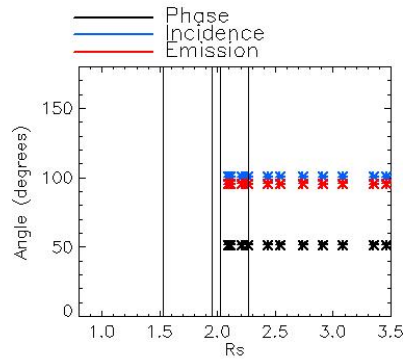
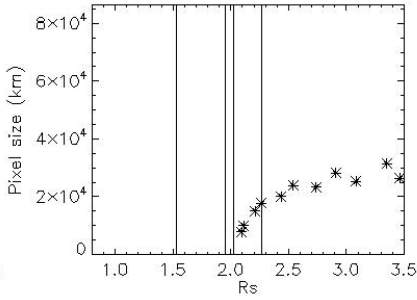
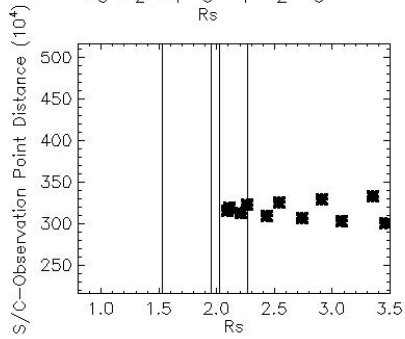


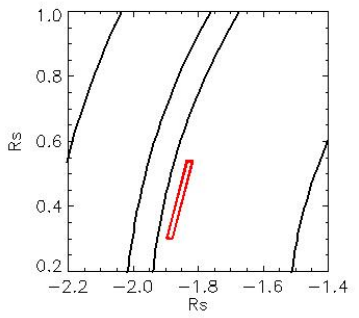
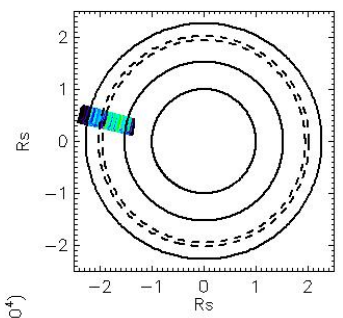
Observation Name:
UVS_050RLFMONITOR01_CIRS

Observation Date:
2007_264_03_26_50

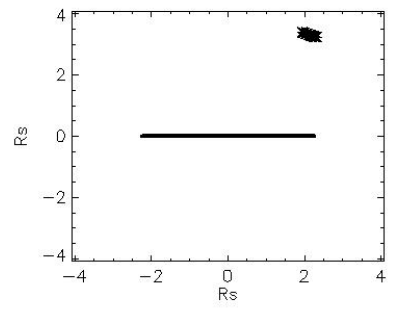
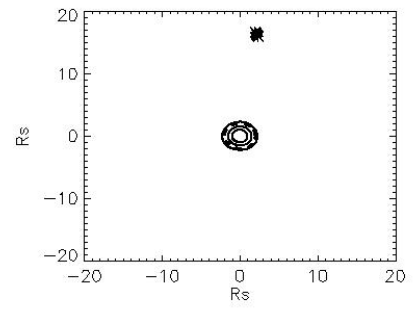
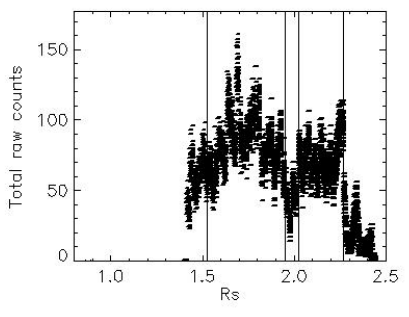
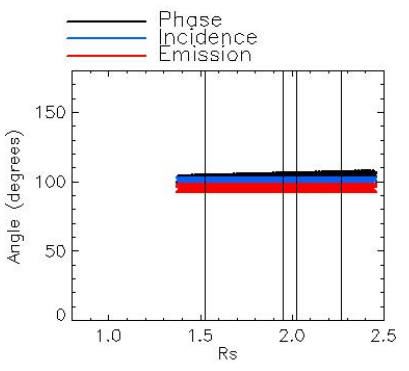
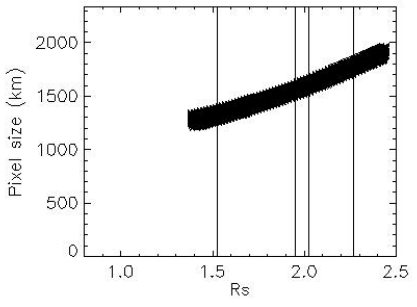
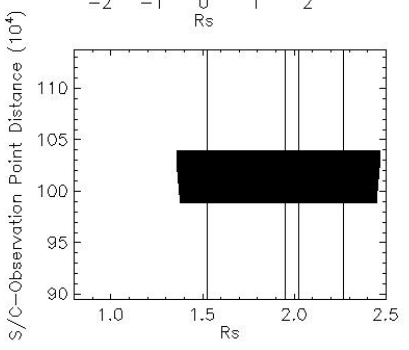
Observation Duration:
300 S

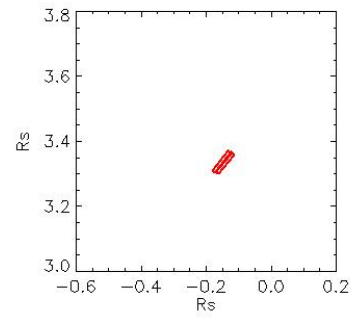
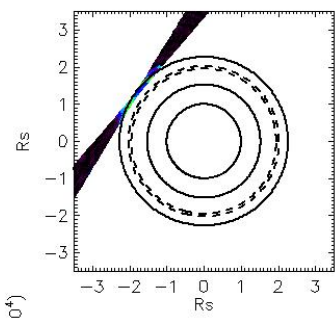
Integration time = 300 S



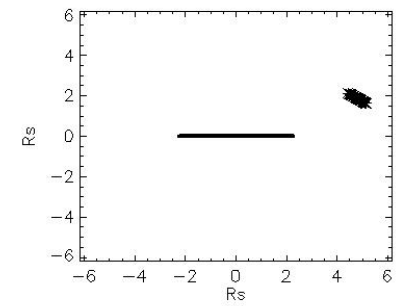
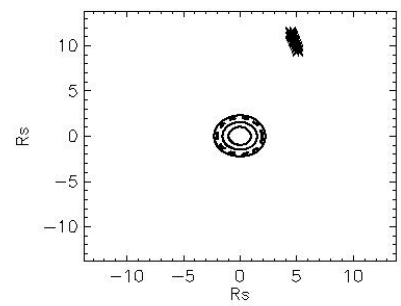
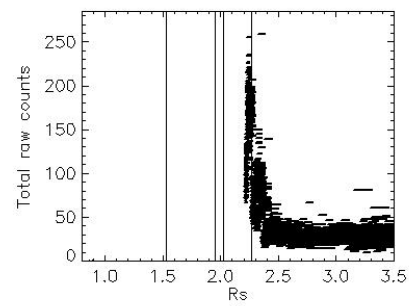
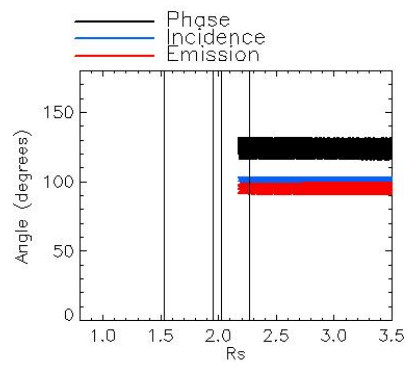
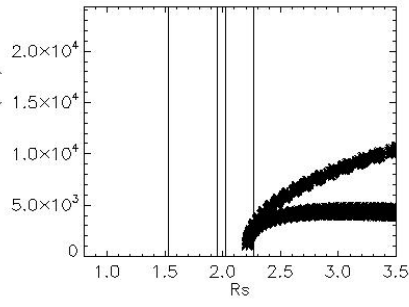
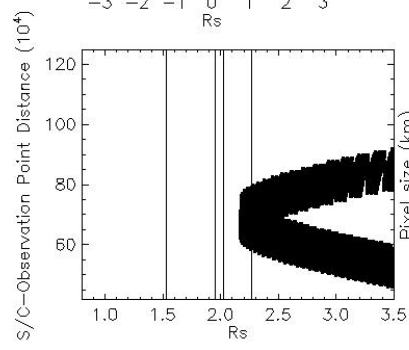


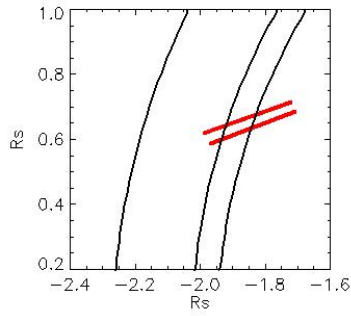
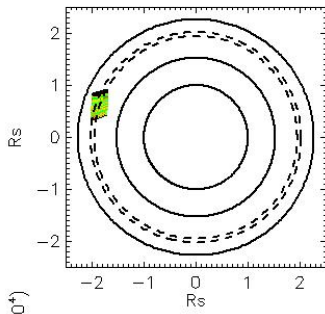
Observation Name:
 UVS_050RLBRINGBLUR001_ISS
 Observation Date:
 2007_272_01_36_21
 Observation Duration:
 6570 S
 Integration time = 90 S





Observation Name:
 UVS_050RA_COMP001001_CIRS
 Observation Date:
 2007_272_13_59_51
 Observation Duration:
 15000 S
 Integration time = 300 S



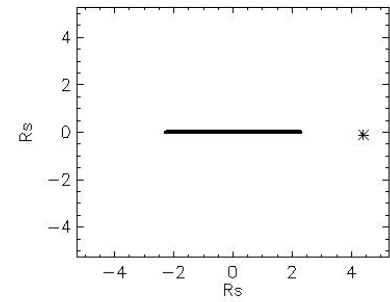
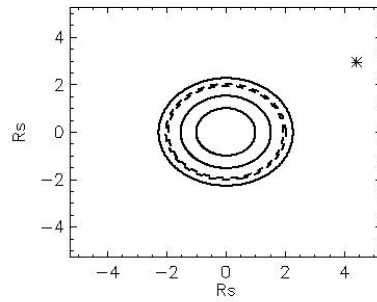
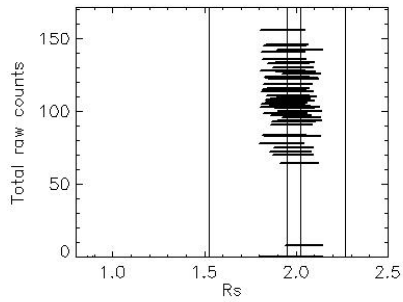
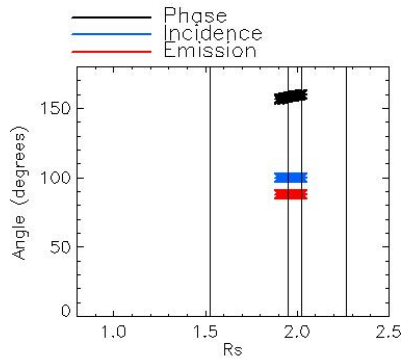
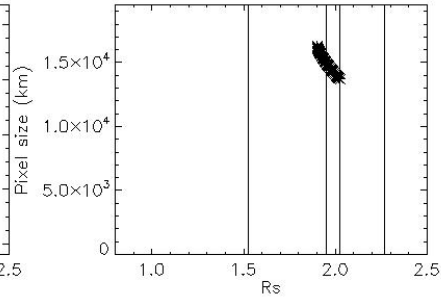
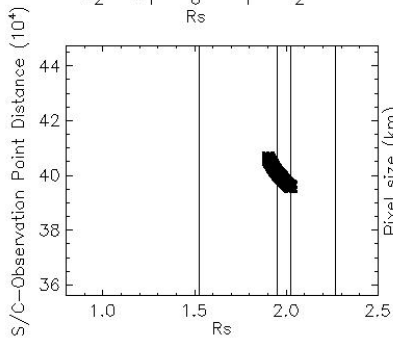


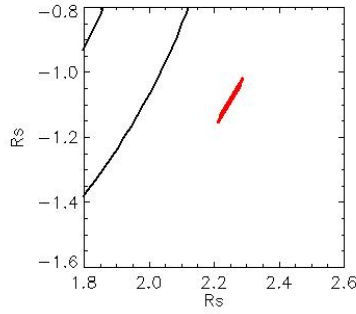
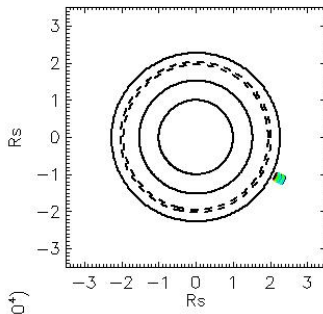
Observation Name:
UVS_051RLDIFFRING001_IJS

Observation Date:
2007_297_02_35_36

Observation Duration:
300 S

Integration time = 300 S



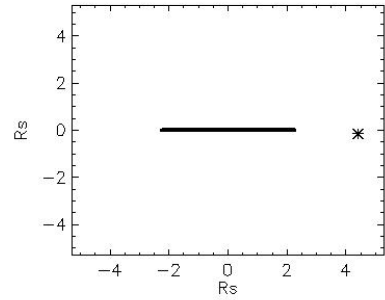
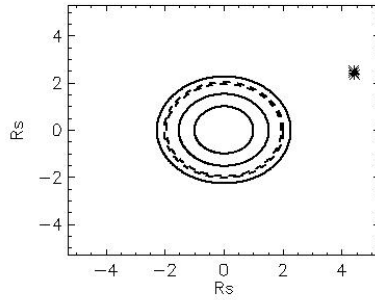
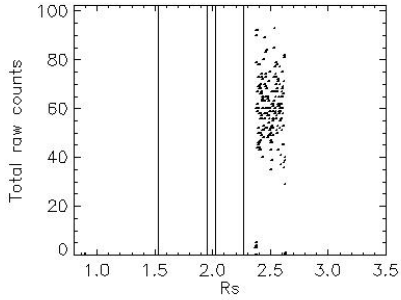
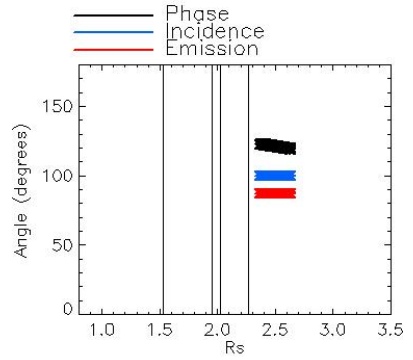
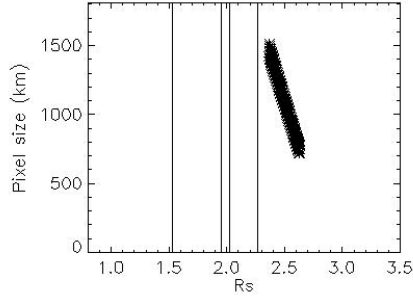
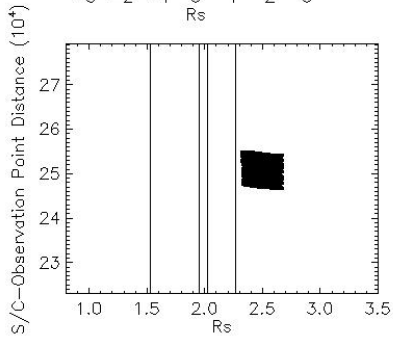


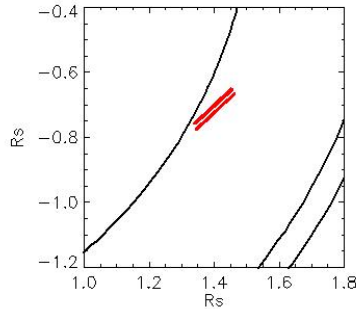
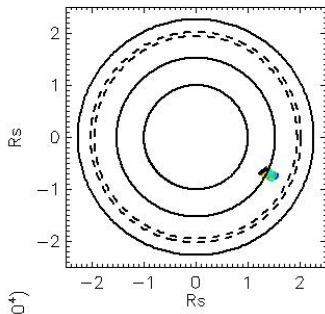
Observation Name:
UVS_051RLDIFFRING001_JSS

Observation Date:
2007_297_03_05_24

Observation Duration:
900 S

Integration time = 300 S



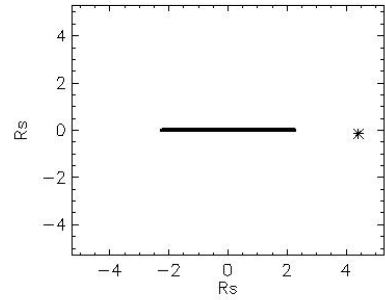
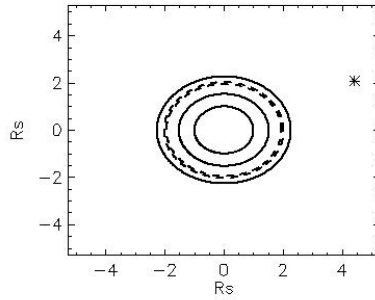
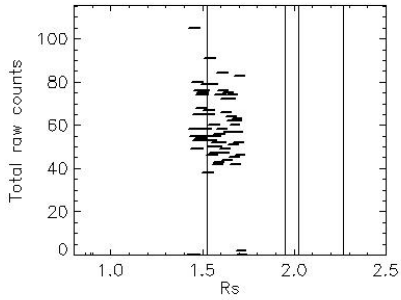
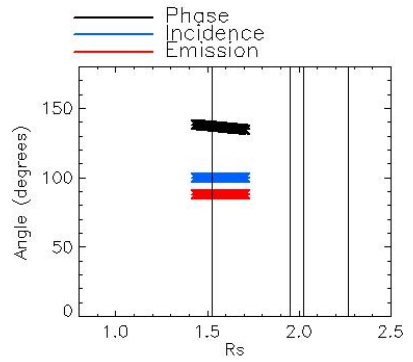
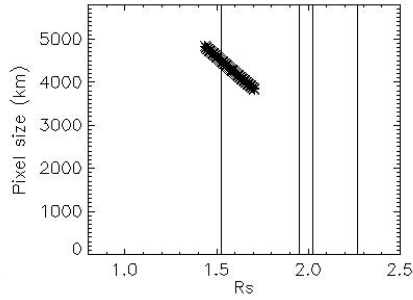
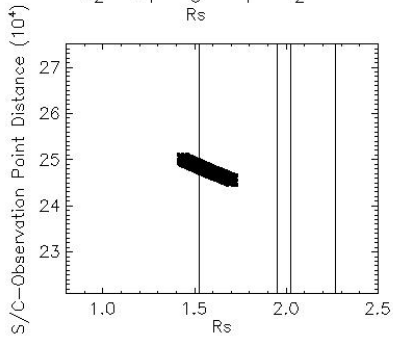


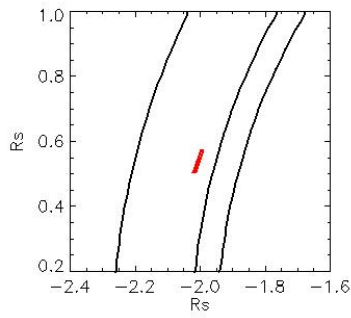
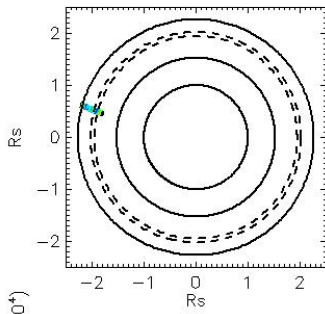
Observation Name:
UVS_051RLDIFFRING001_IJS

Observation Date:
2007_297_03_33_58

Observation Duration:
300 S

Integration time = 300 S



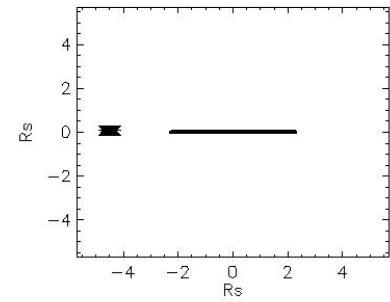
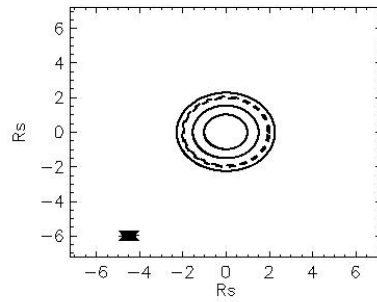
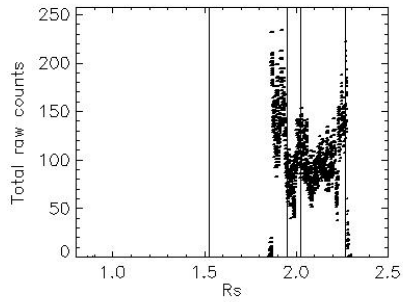
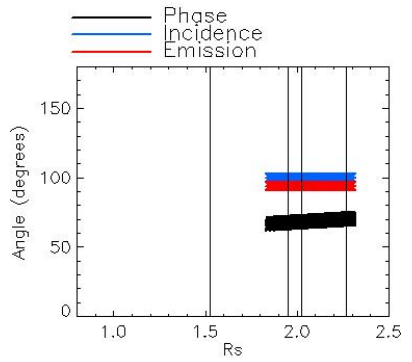
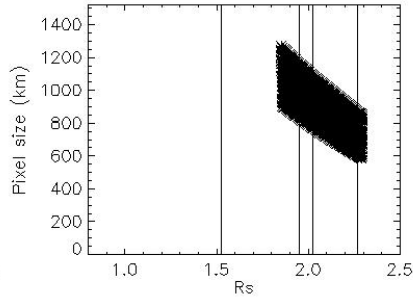
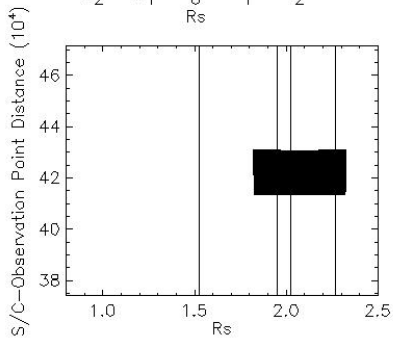


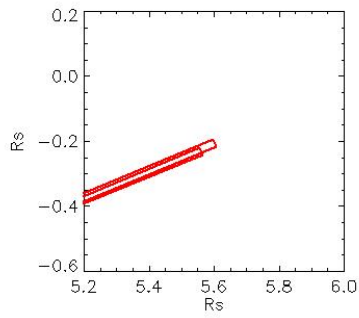
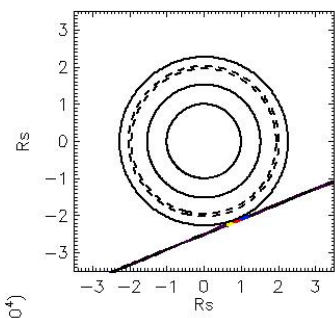
Observation Name:
UVS_051RLRINGSPEC001_PRIME

Observation Date:
2007_297_17_40_04

Observation Duration:
2520 S

Integration time = 120 S



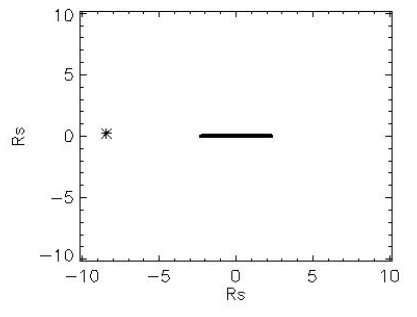
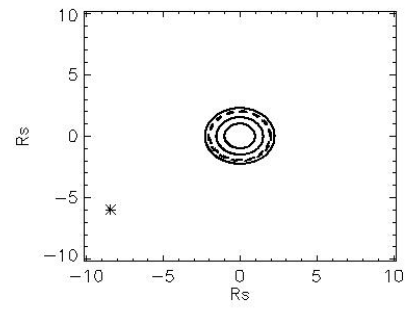
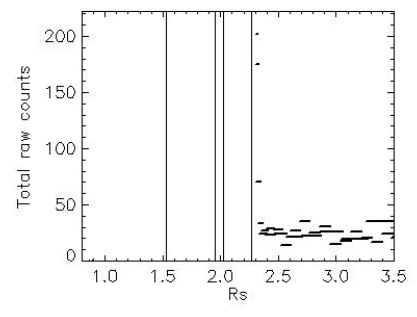
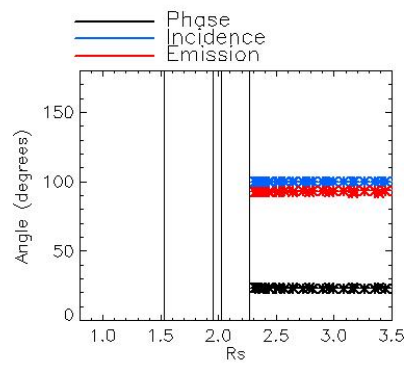
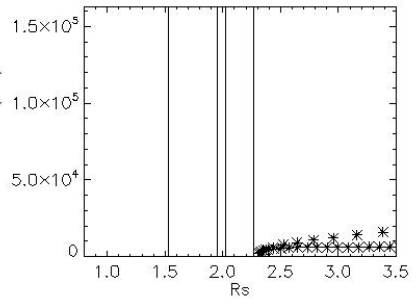
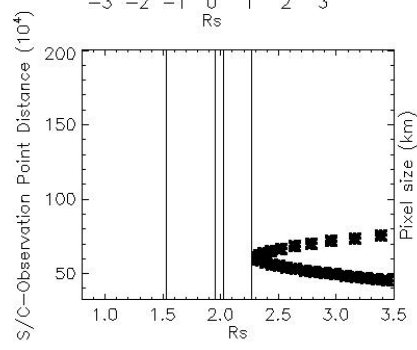


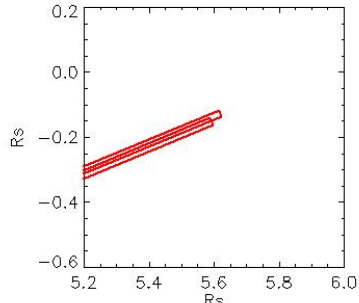
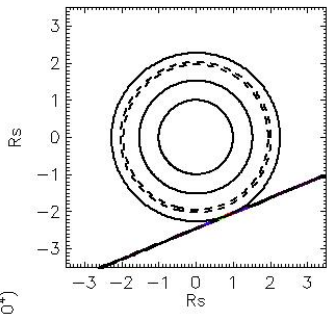
Observation Name:
UVS_051RLRADSCAN001_ISS

Observation Date:
2007_298_00_08_23

Observation Duration:
240 S

Integration time = 240 S



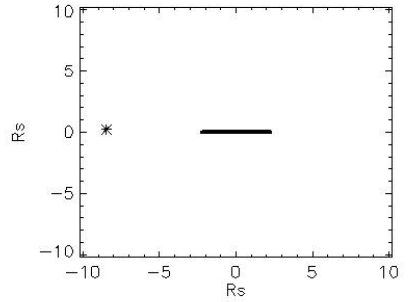
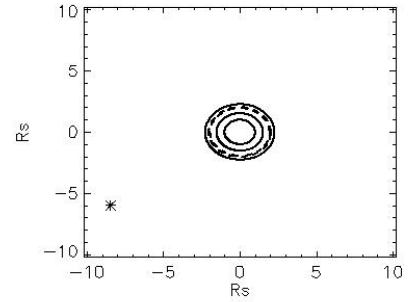
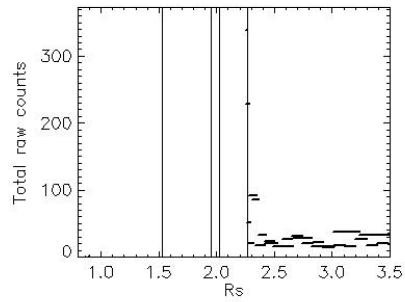
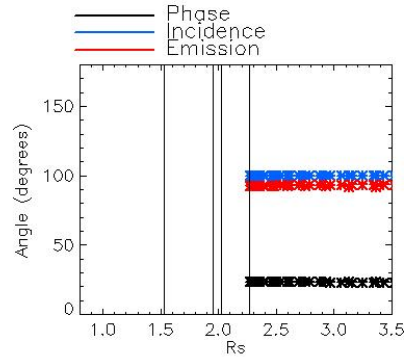
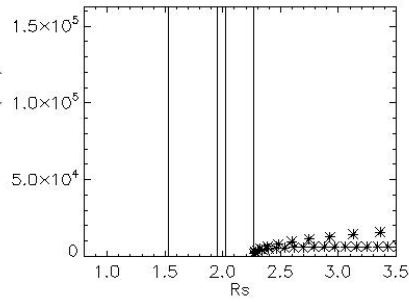
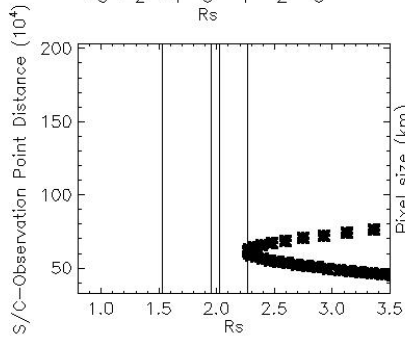


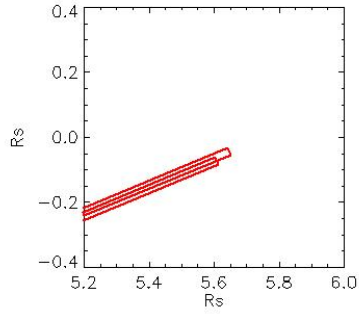
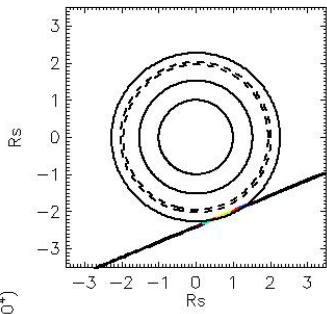
Observation Name:
UVS_051RLRADSCAN001_ISS

Observation Date:
2007_298_00_12_50

Observation Duration:
240 S

Integration time = 240 S



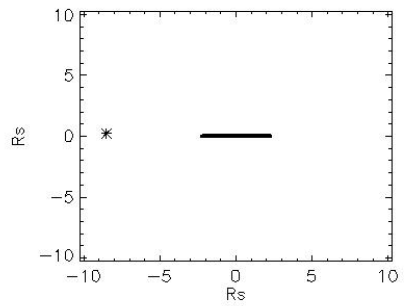
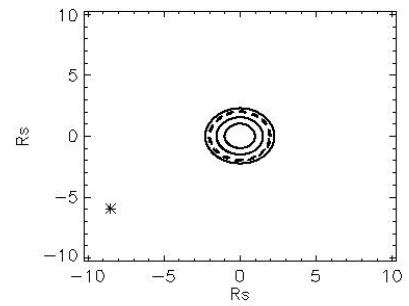
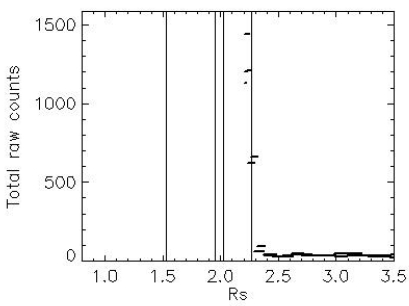
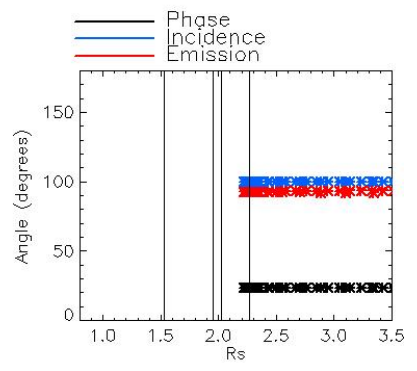
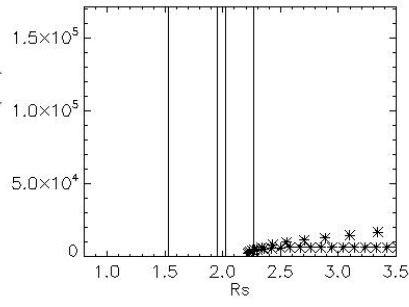
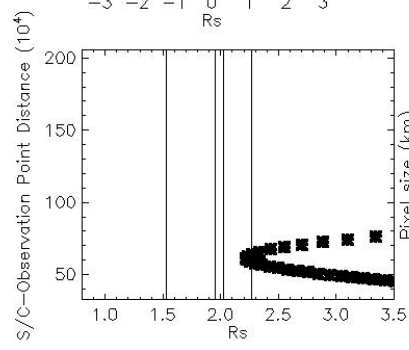


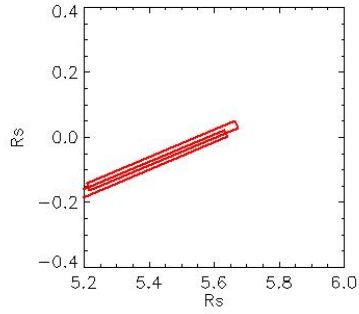
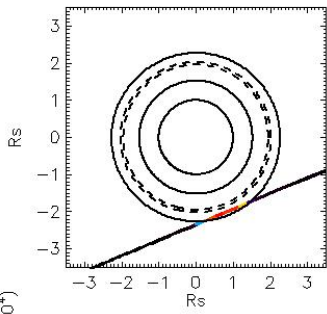
Observation Name:
UVIS_051RLRADSCAN001_ISS

Observation Date:
2007_298_00_17_17

Observation Duration:
240 S

Integration time = 240 S



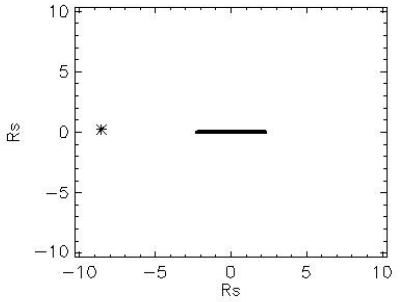
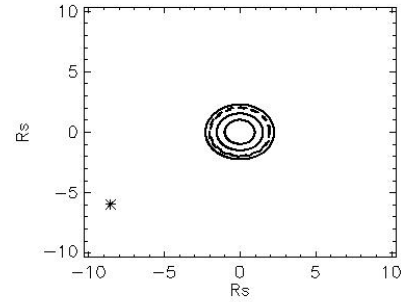
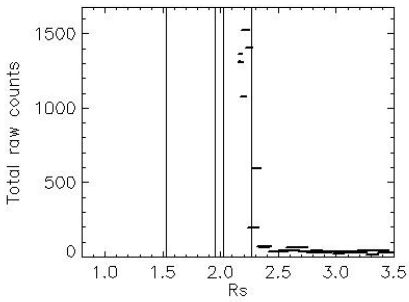
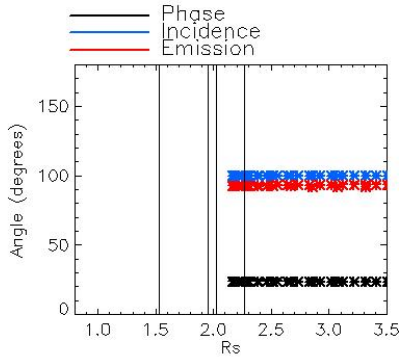
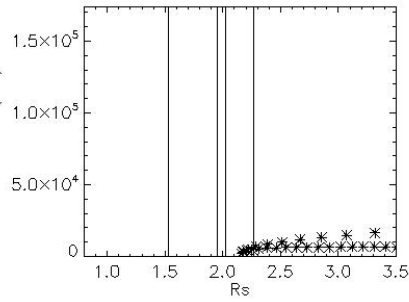
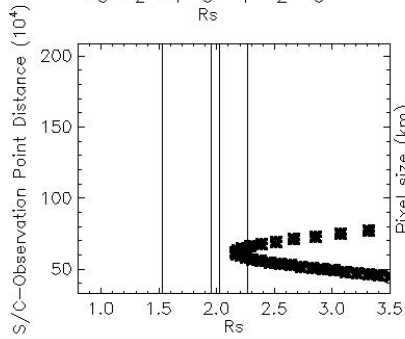


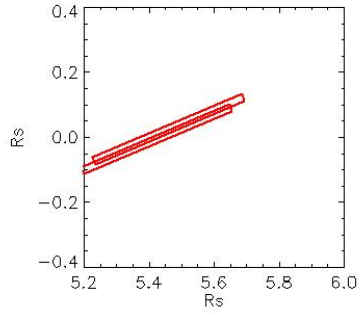
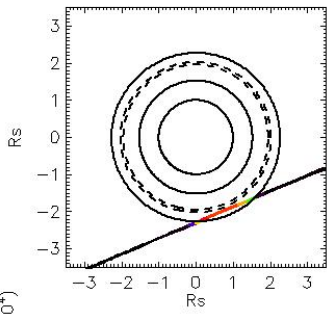
Observation Name:
UMS_051RLRADSCAN001_ISS

Observation Date:
2007_298_00_21_44

Observation Duration:
240 S

Integration time = 240 S



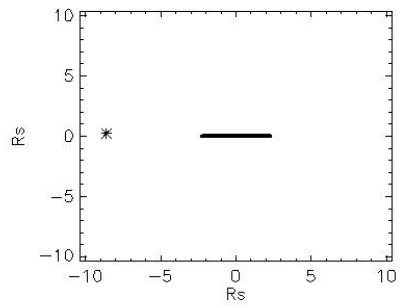
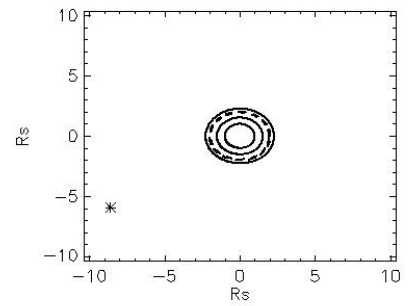
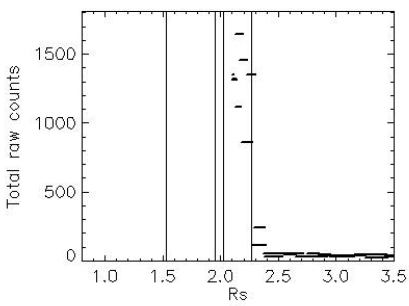
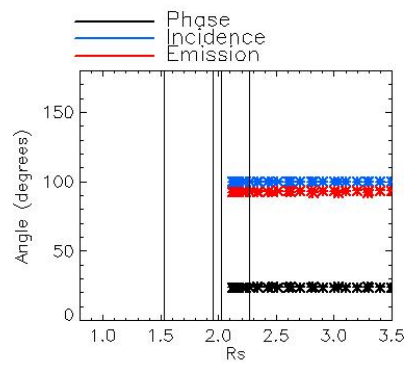
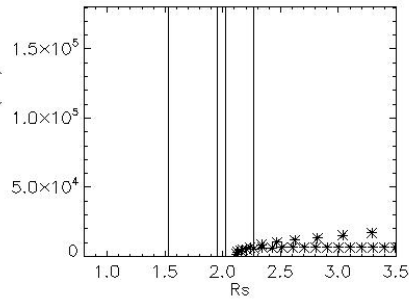
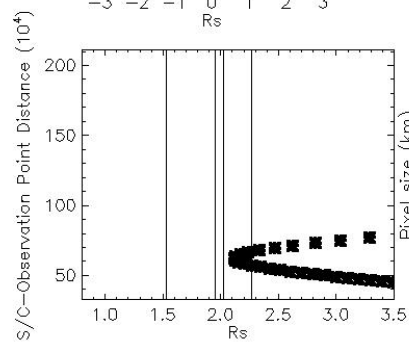


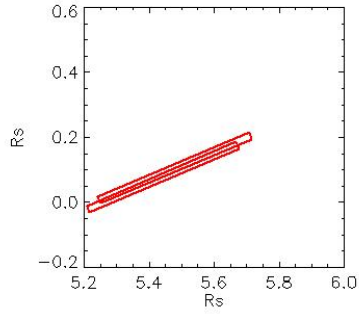
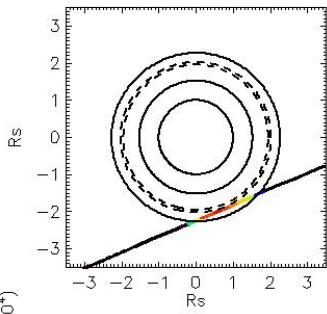
Observation Name:
UMS_051RLRADSCAN001_ISS

Observation Date:
2007_298_00_26_11

Observation Duration:
240 S

Integration time = 240 S



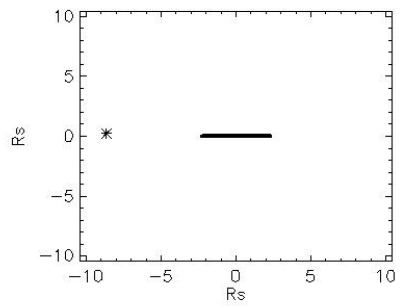
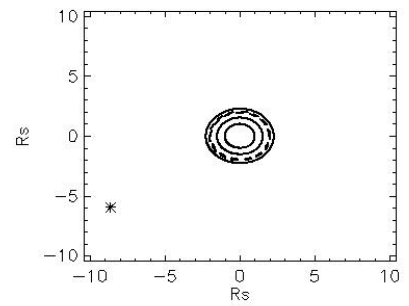
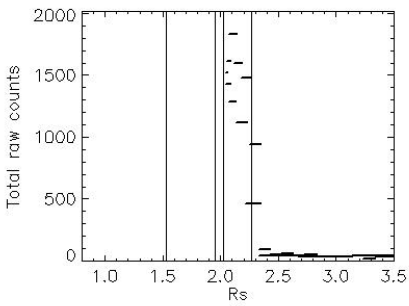
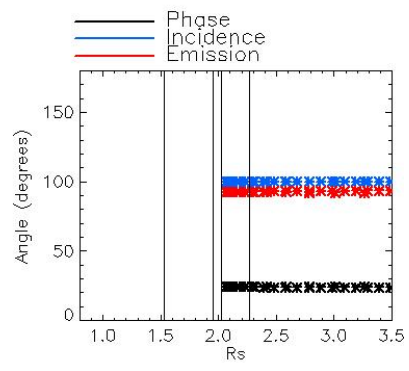
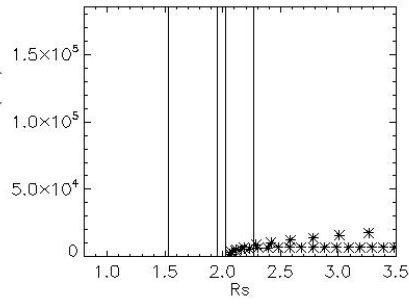
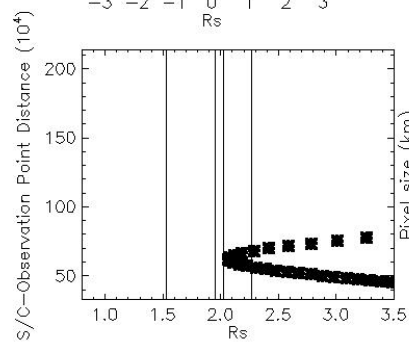


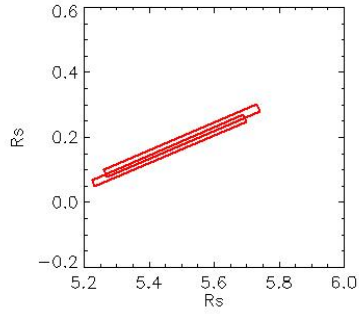
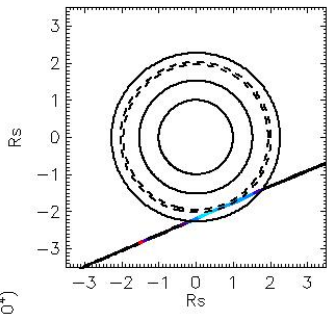
Observation Name:
UMS_051RLRADSCAN001_ISS

Observation Date:
2007_298_00_30_38

Observation Duration:
240 S

Integration time = 240 S



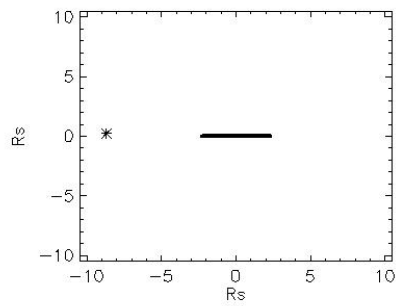
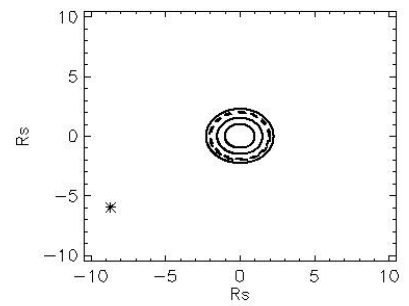
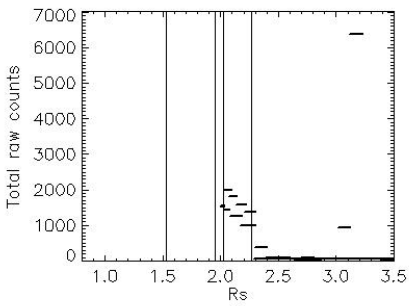
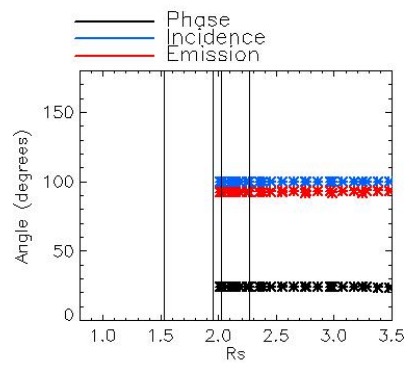
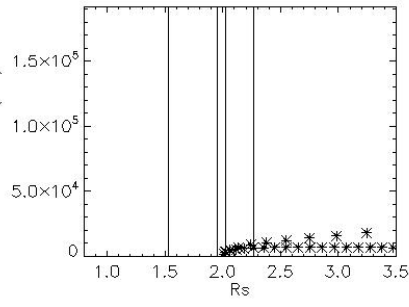
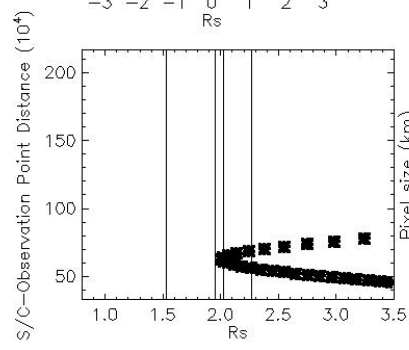


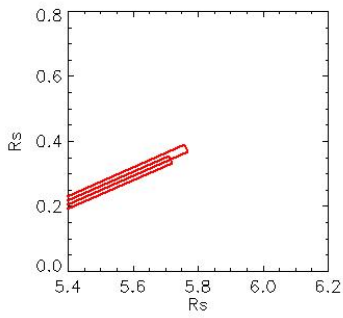
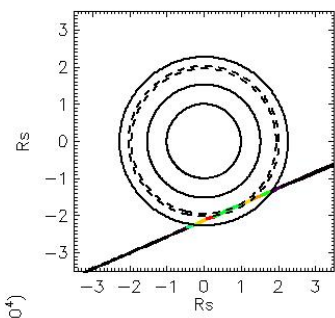
Observation Name:
UMS_051RLRADSCAN001_ISS

Observation Date:
2007_298_00_35_05

Observation Duration:
240 S

Integration time = 240 S



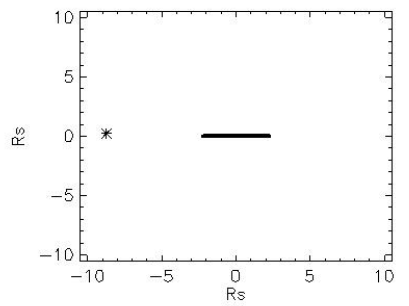
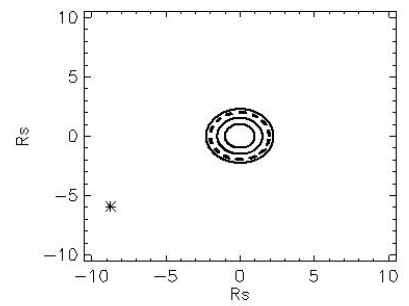
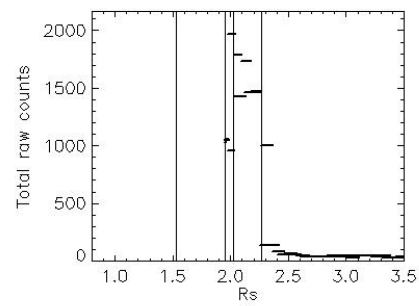
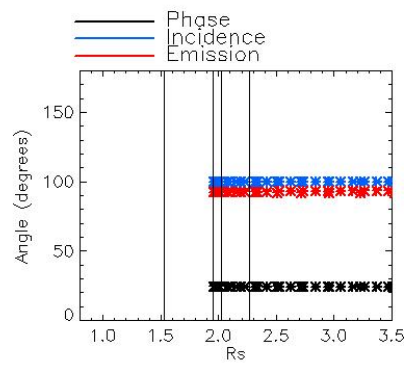
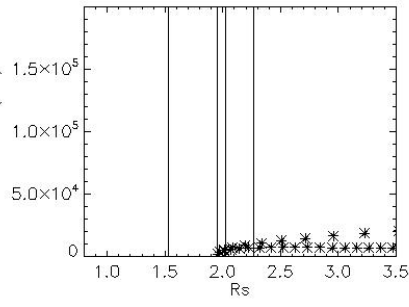
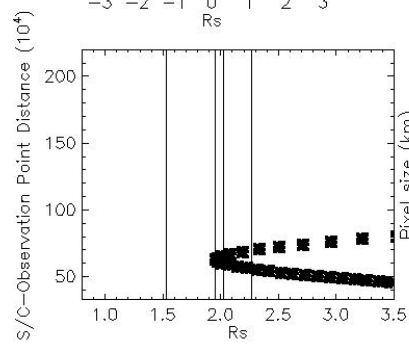


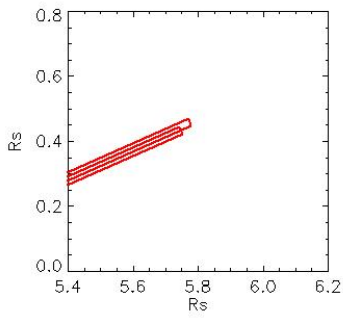
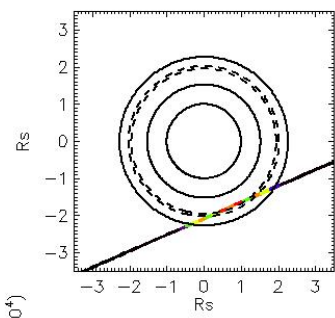
Observation Name:
UVS_051RLRADSCAN001_ISS

Observation Date:
2007_298_00_39_32

Observation Duration:
240 S

Integration time = 240 S



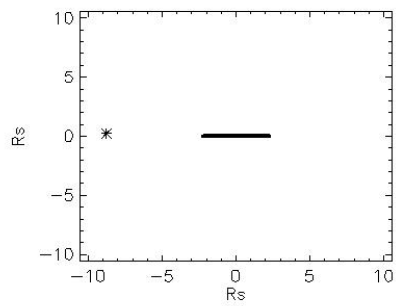
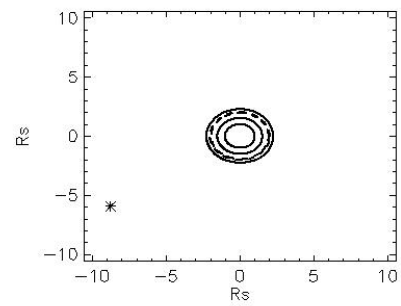
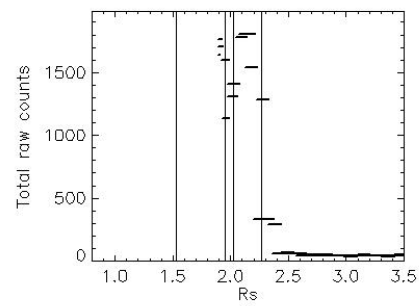
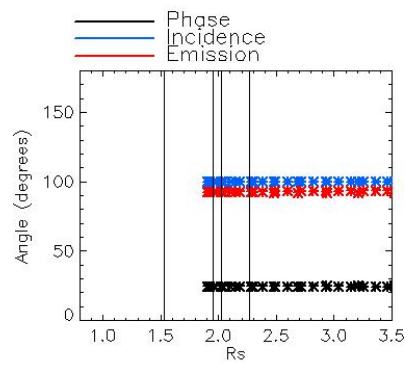
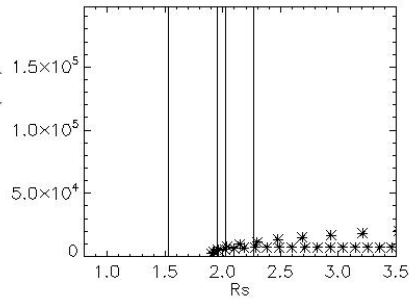
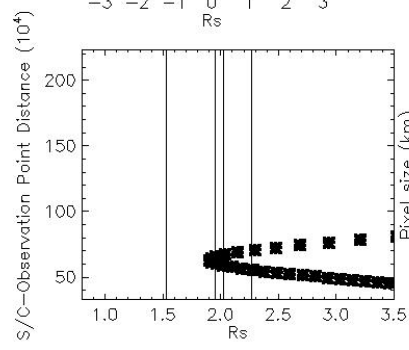


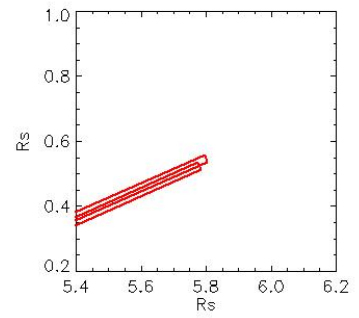
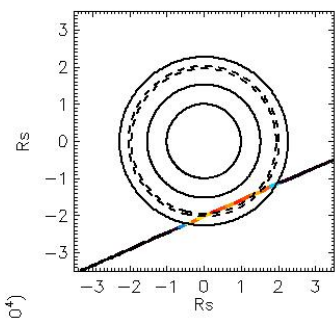
Observation Name:
UMS_051RLRADSCAN001_ISS

Observation Date:
2007_298_00_43_59

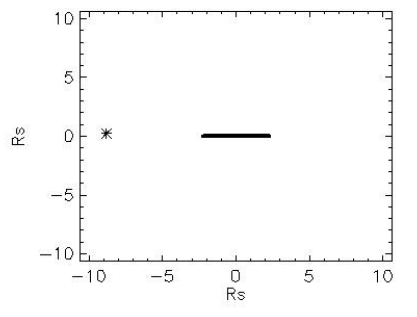
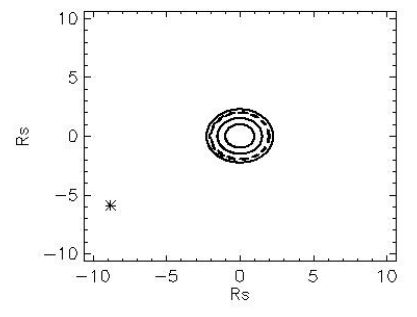
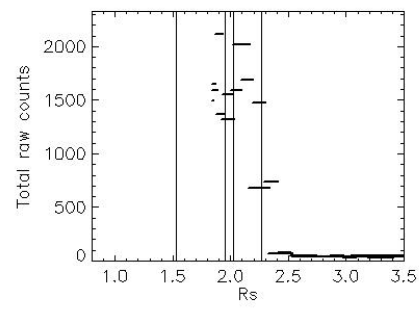
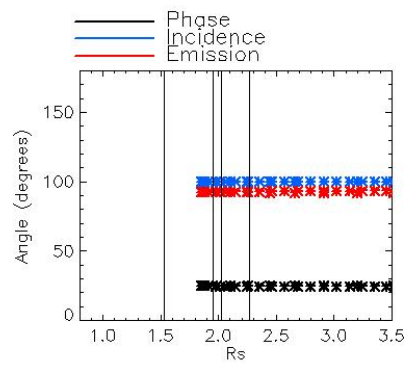
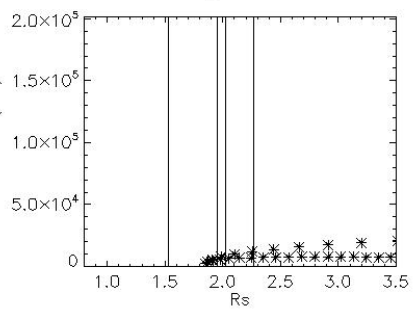
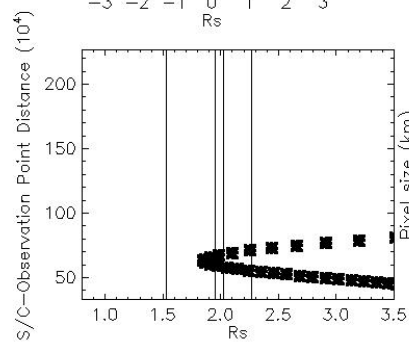
Observation Duration:
240 S

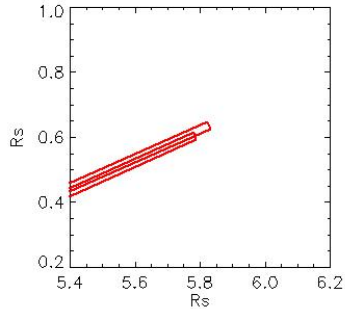
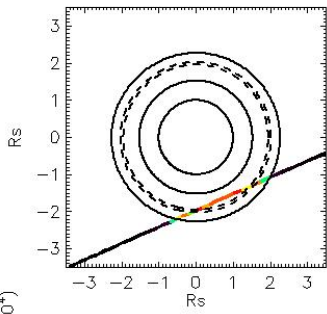
Integration time = 240 S





Observation Name:
 UVS_051RLRADSCAN001_ISS
 Observation Date:
 2007_298_00_48_26
 Observation Duration:
 240 S
 Integration time = 240 S





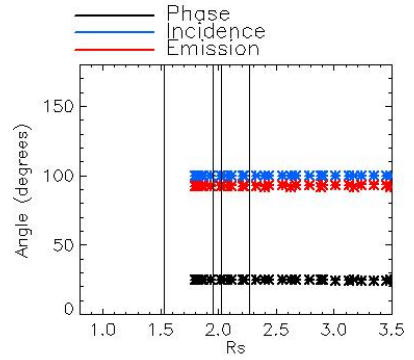
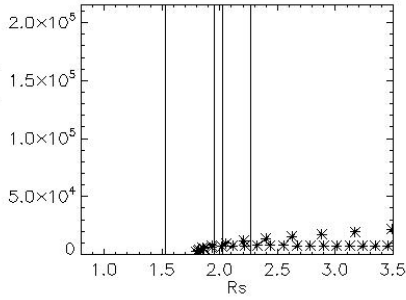
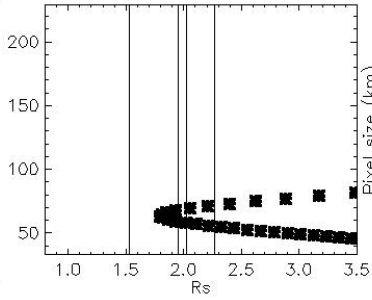
Observation Name:
UVS_051RLRADSCAN001_ISS

Observation Date:
2007_298_00_52_53

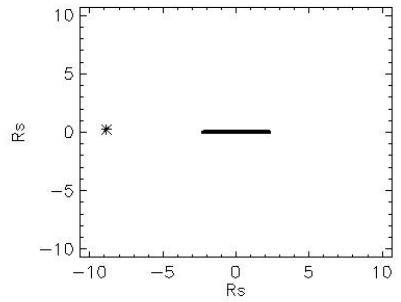
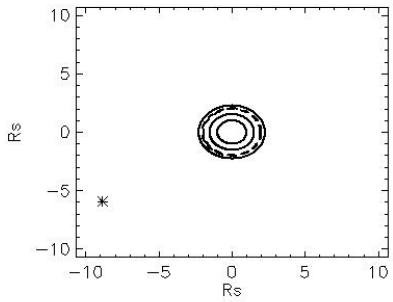
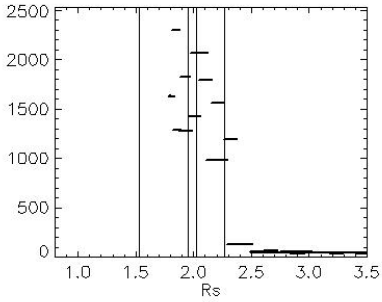
Observation Duration:
240 S

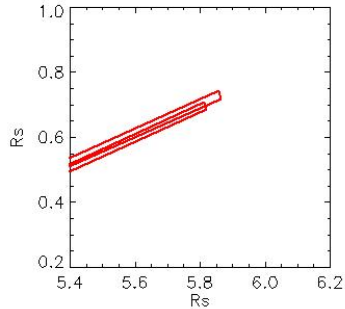
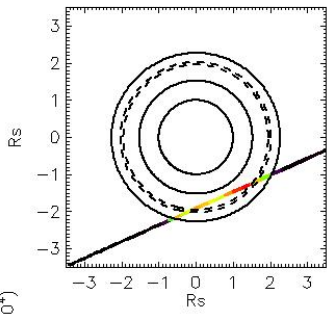
Integration time = 240 S

S/C—Observation Point Distance (10^4)



Total raw counts



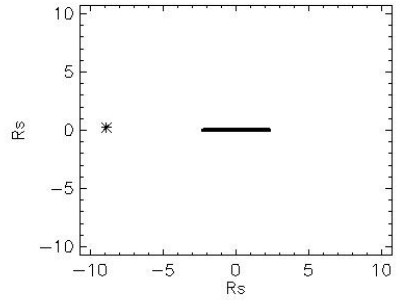
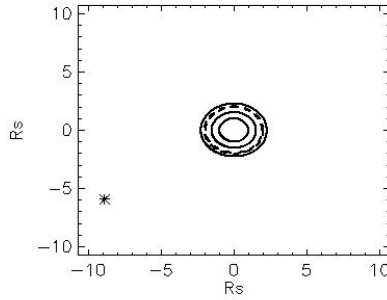
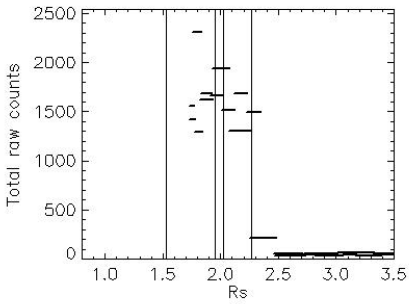
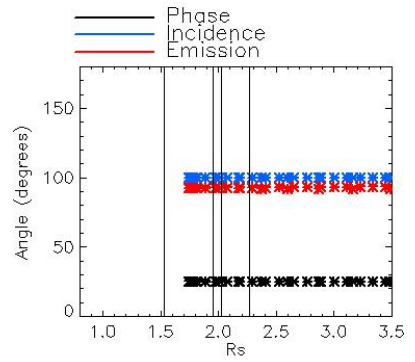
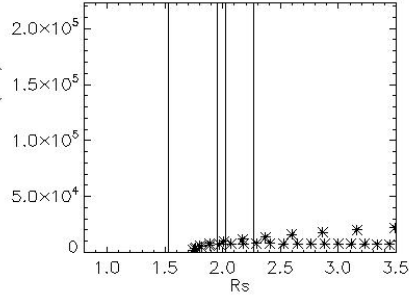
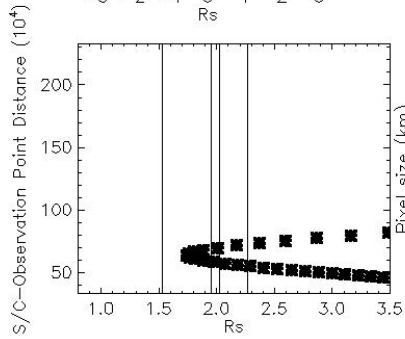


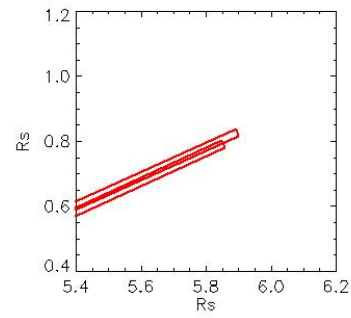
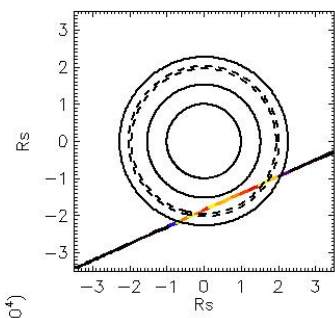
Observation Name:
UMS_051RLRADSCAN001_ISS

Observation Date:
2007_298_00_57_20

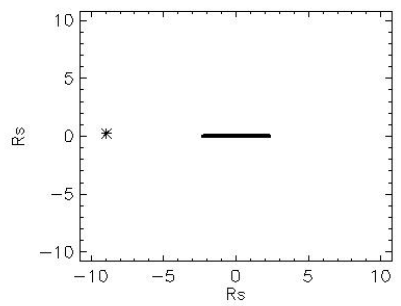
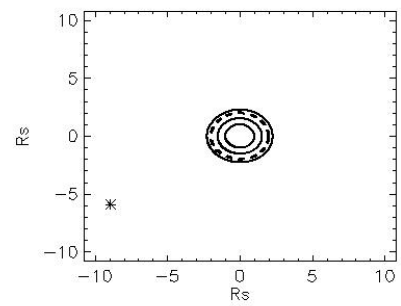
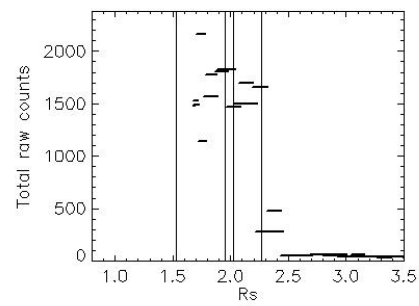
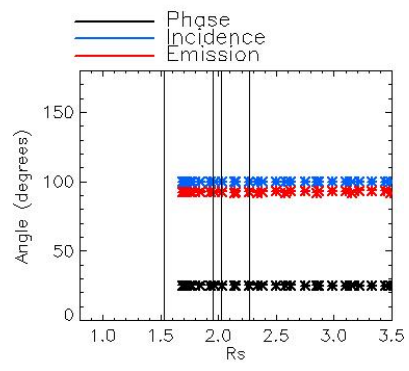
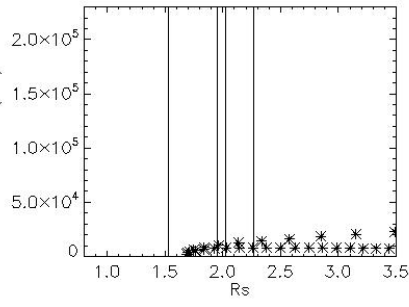
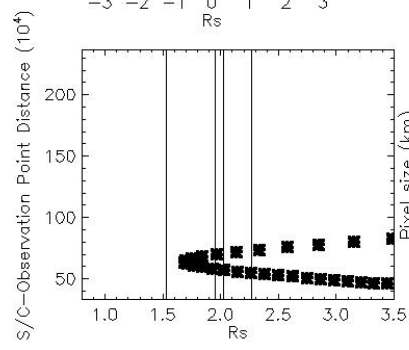
Observation Duration:
240 S

Integration time = 240 S

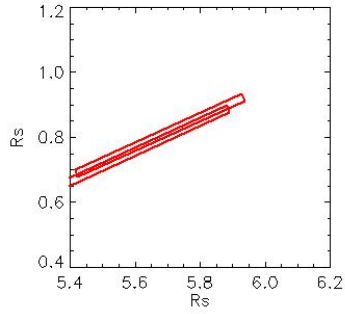
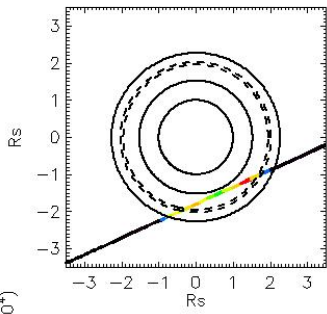




Observation Name:
UVS_051RLRADSCAN001_ISS
Observation Date:
2007_298_01_01_47
Observation Duration:
240 S
Integration time = 240 S



— Phase
— Incidence
— Emission

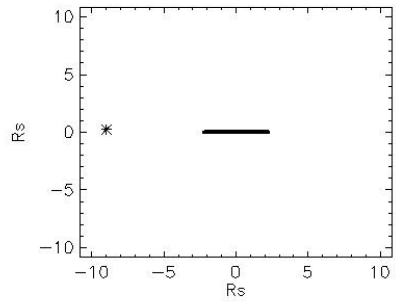
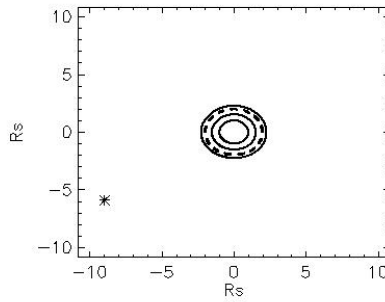
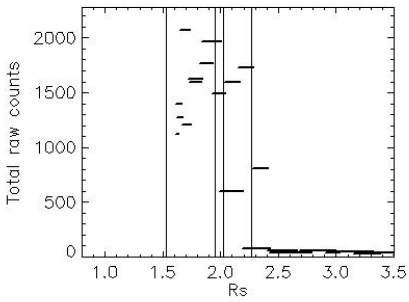
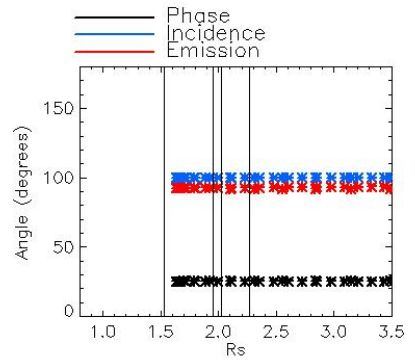
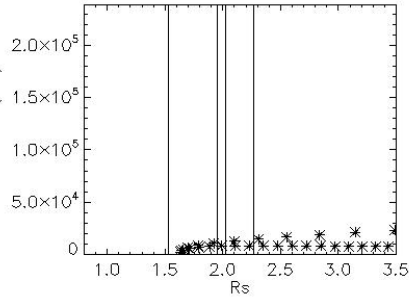
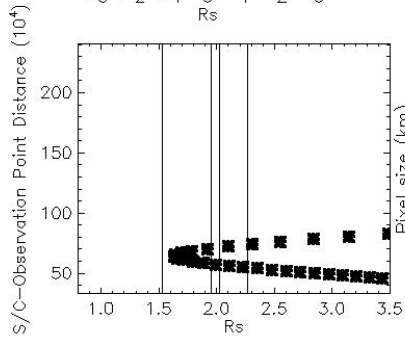


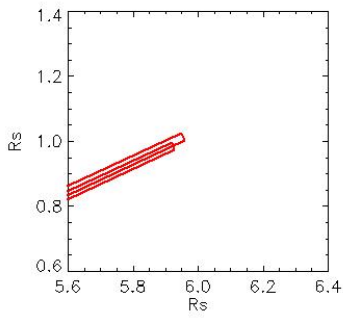
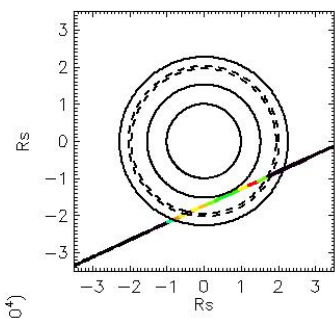
Observation Name:
UVS_051RLRADSCAN001_ISS

Observation Date:
2007_298_01_06_14

Observation Duration:
240 S

Integration time = 240 S



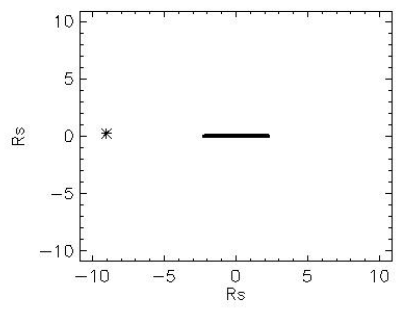
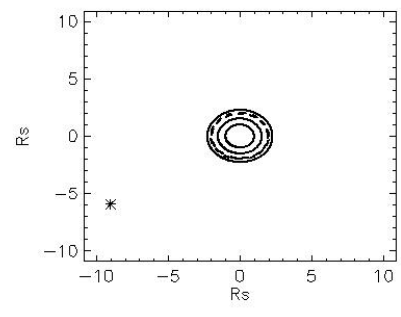
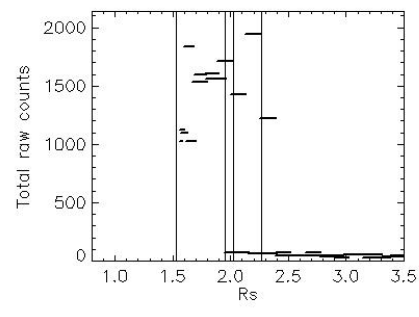
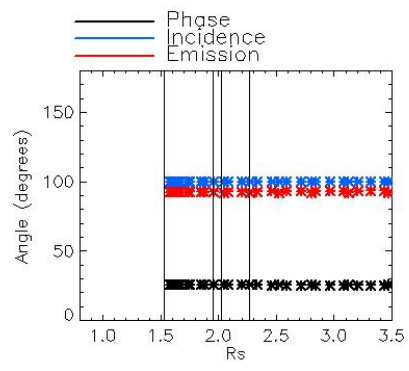
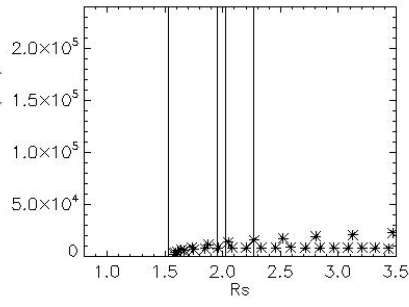
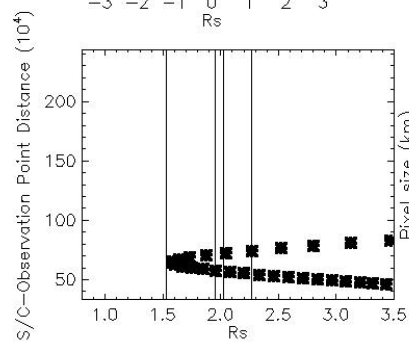


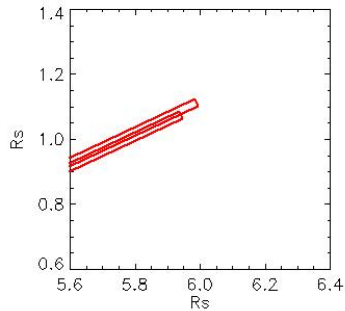
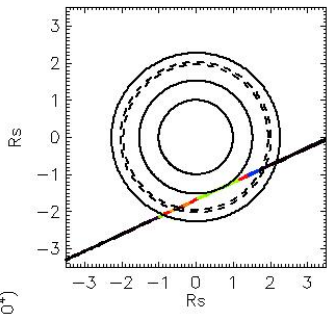
Observation Name:
UVS_051RLRADSCAN001_ISS

Observation Date:
2007_298_01_10_41

Observation Duration:
240 S

Integration time = 240 S



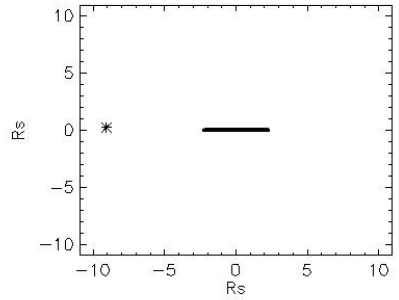
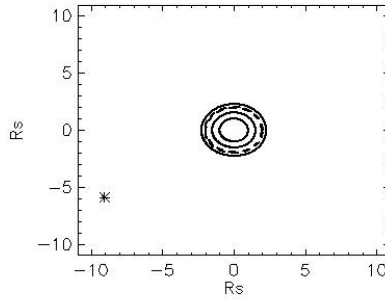
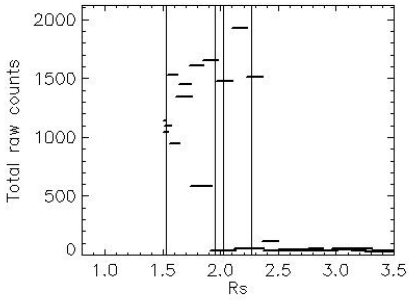
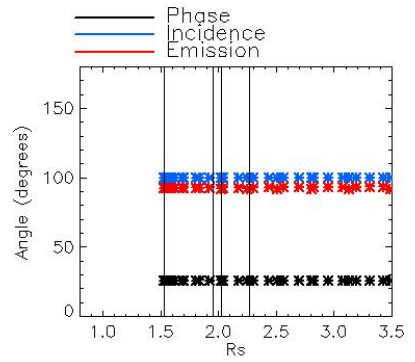
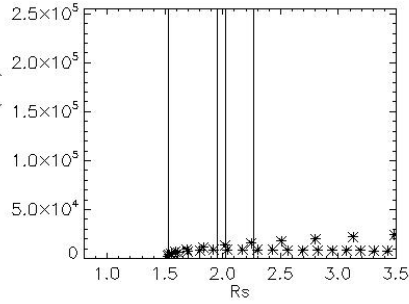
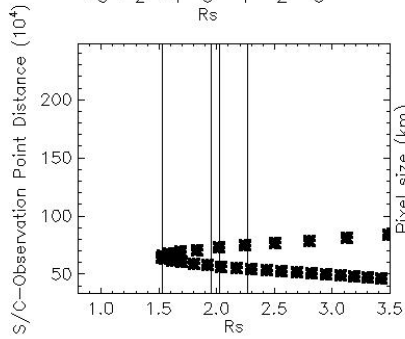


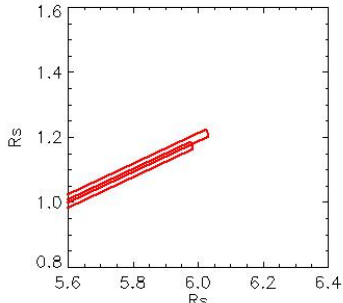
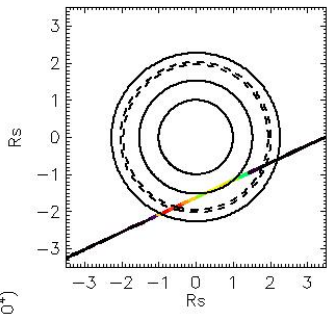
Observation Name:
UVS_051RLRADSCAN001_ISS

Observation Date:
2007_298_01_15_08

Observation Duration:
240 S

Integration time = 240 S



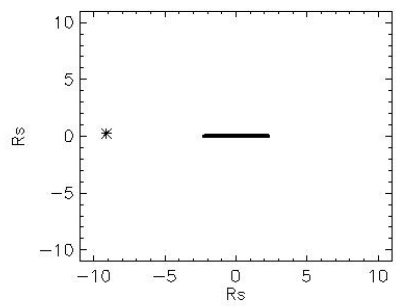
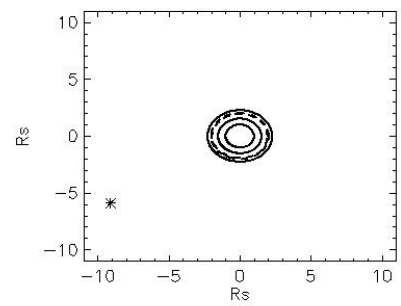
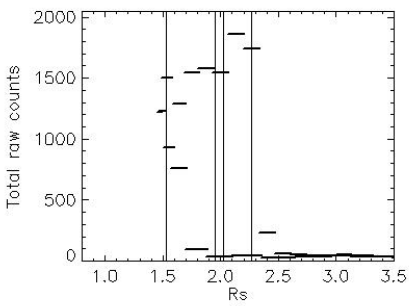
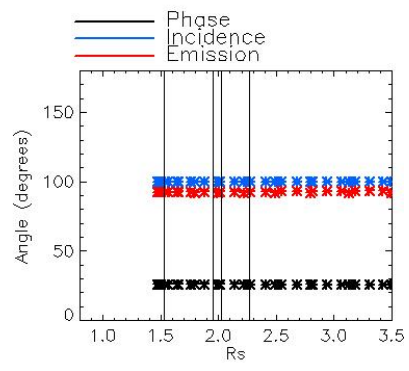
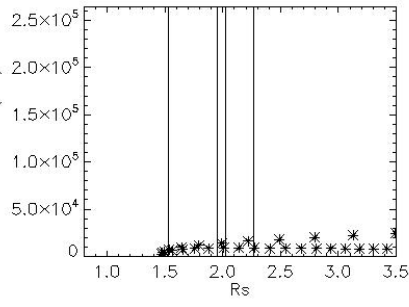
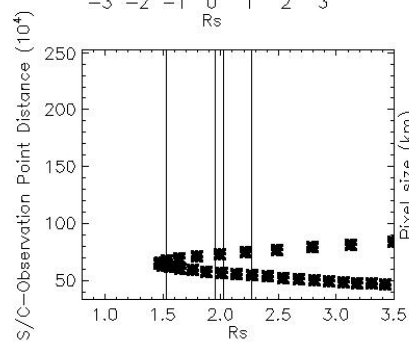


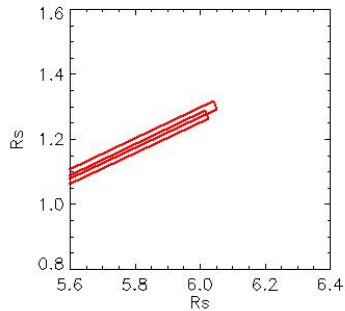
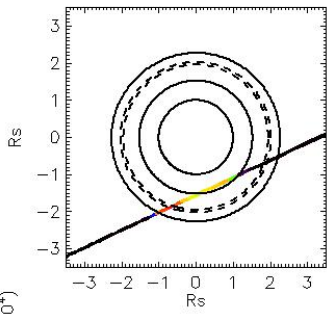
Observation Name:
UMS_051RLRADSCAN001_ISS

Observation Date:
2007_298_01_19_35

Observation Duration:
240 S

Integration time = 240 S



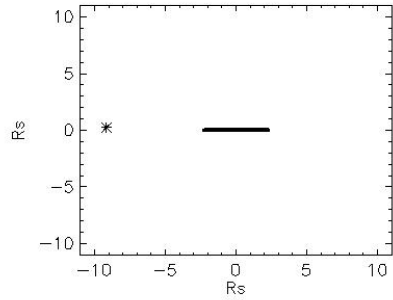
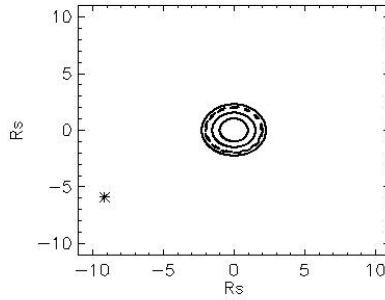
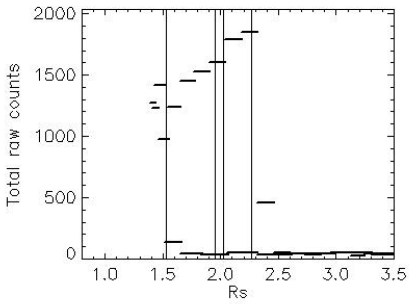
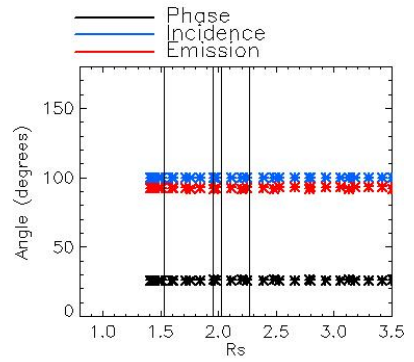
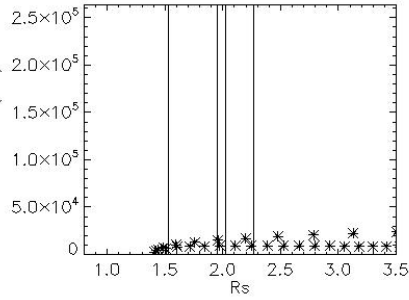
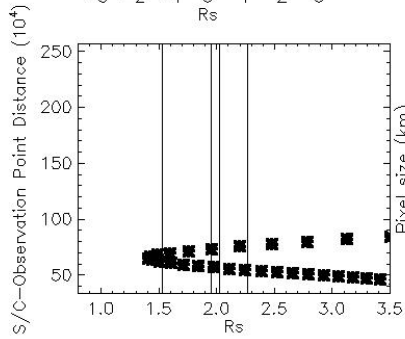


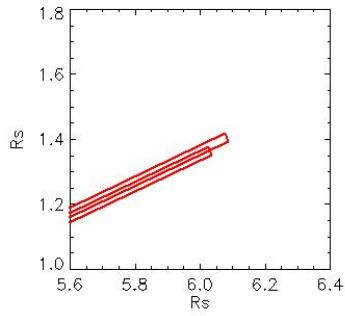
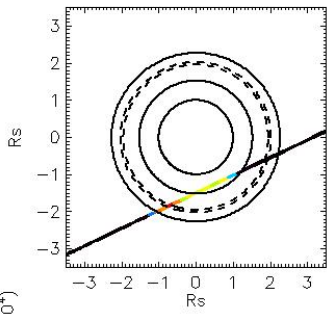
Observation Name:
UVS_051RLRADSCAN001_ISS

Observation Date:
2007_298_01_24_02

Observation Duration:
240 S

Integration time = 240 S



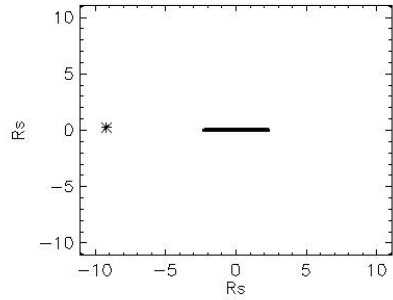
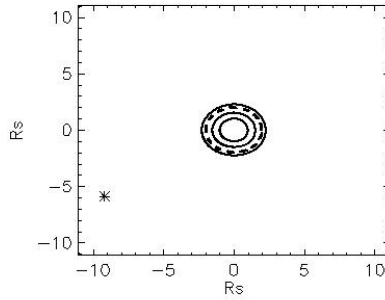
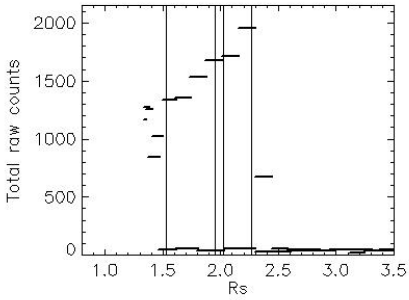
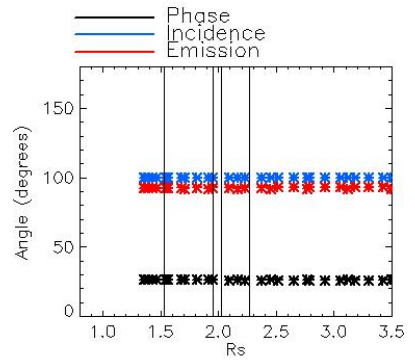
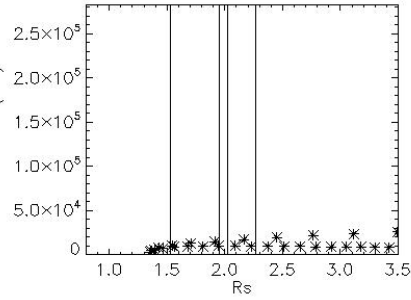
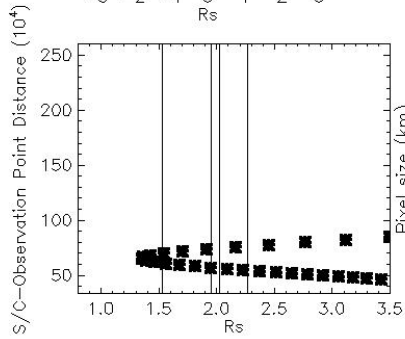


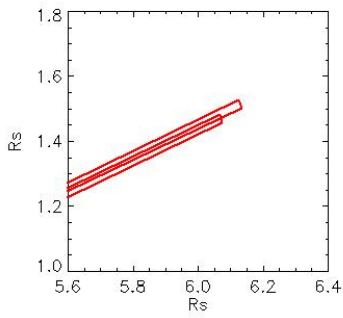
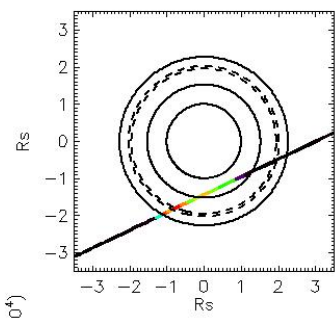
Observation Name:
UVS_051RLRADSCAN001_ISS

Observation Date:
2007_298_01_28_29

Observation Duration:
240 S

Integration time = 240 S



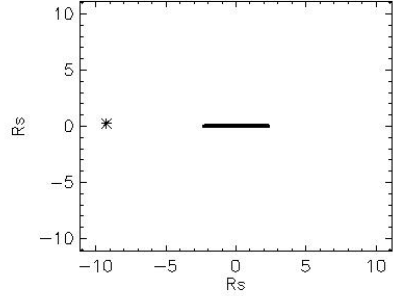
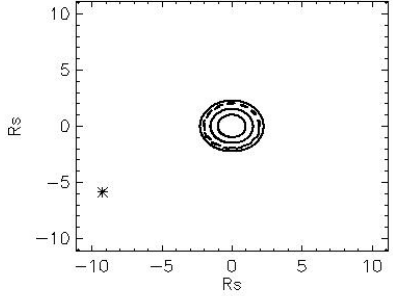
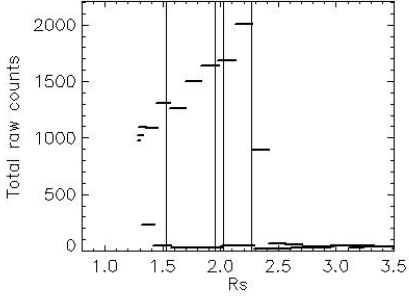
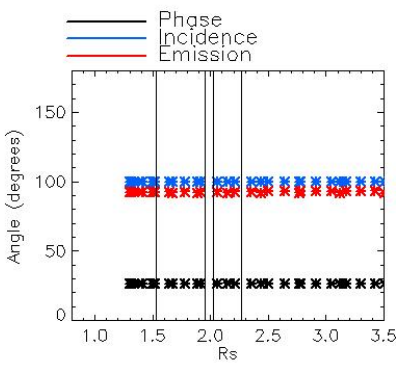
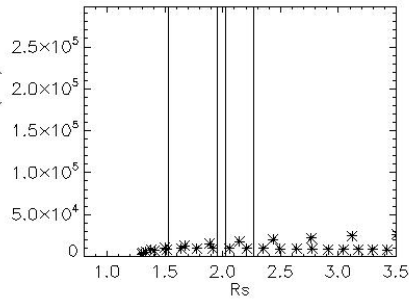
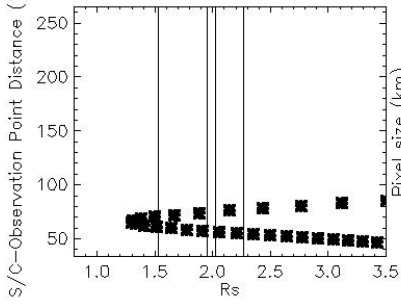


Observation Name:
UVS_051RLRADSCAN001_ISS

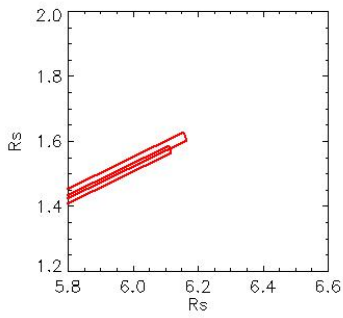
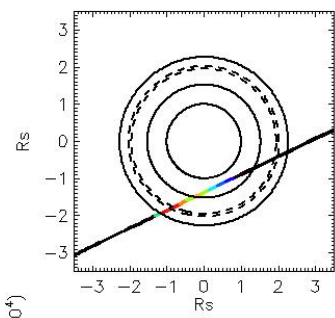
Observation Date:
2007_298_01_32_56

Observation Duration:
240 S

Integration time = 240 S



— Phase
— Incidence
— Emission

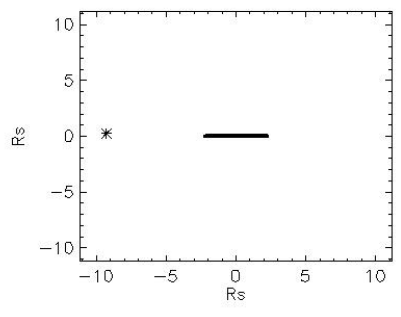
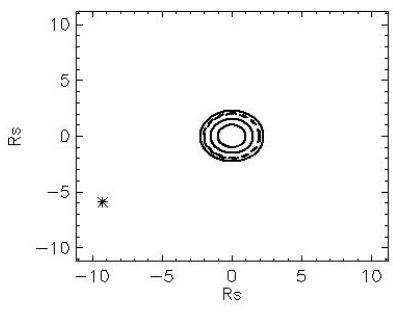
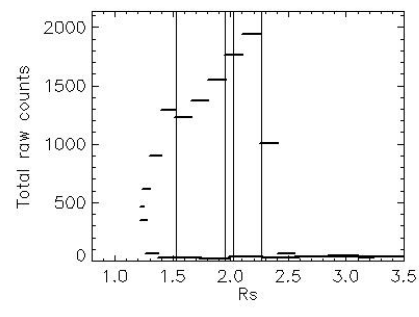
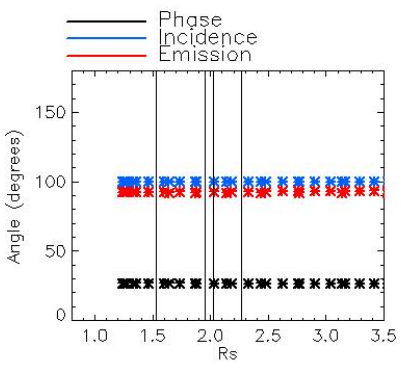
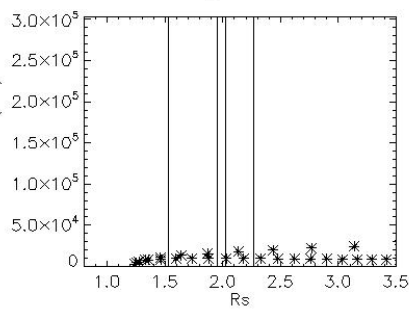
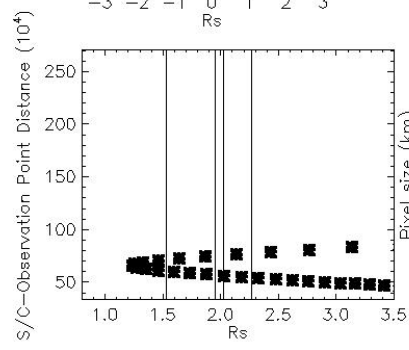


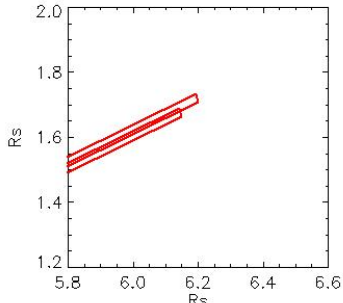
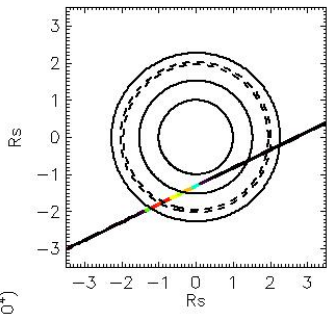
Observation Name:
UVS_051RLRADSCAN001_ISS

Observation Date:
2007_298_01_37_23

Observation Duration:
240 S

Integration time = 240 S



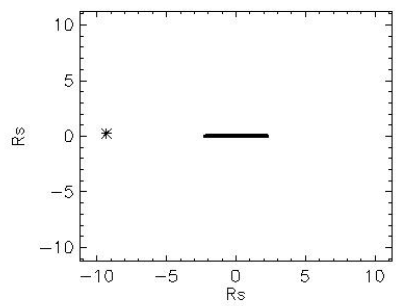
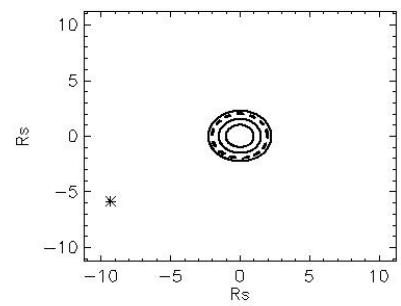
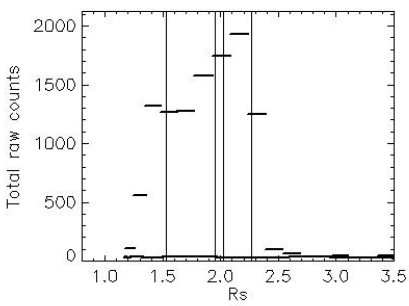
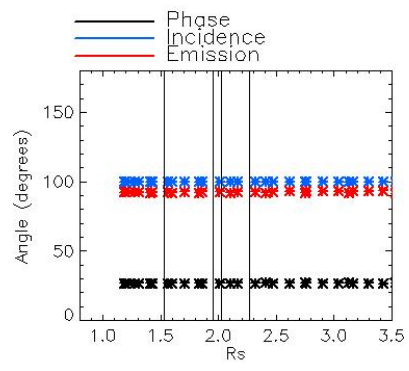
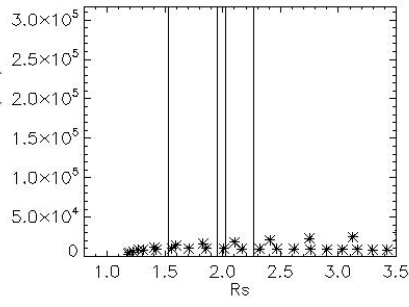
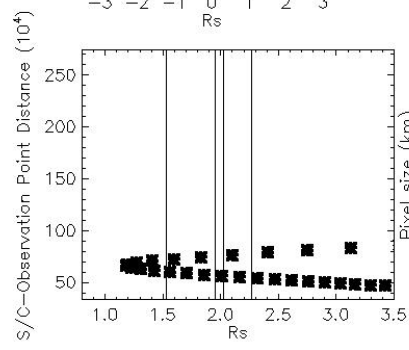


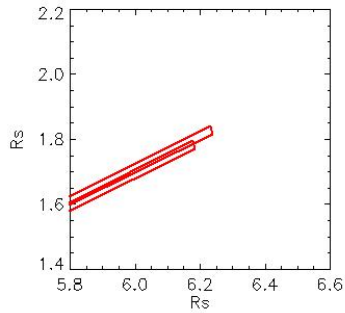
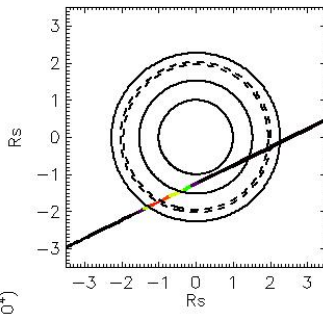
Observation Name:
UVS_051RLRADSCAN001_ISS

Observation Date:
2007_298_01_41_50

Observation Duration:
240 S

Integration time = 240 S



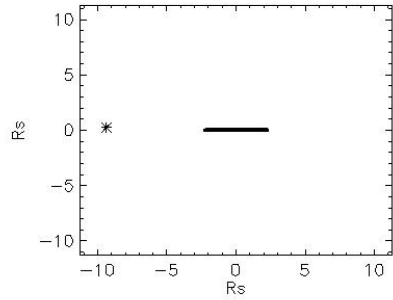
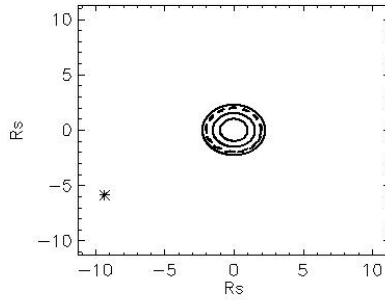
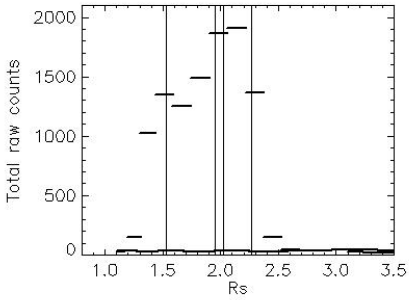
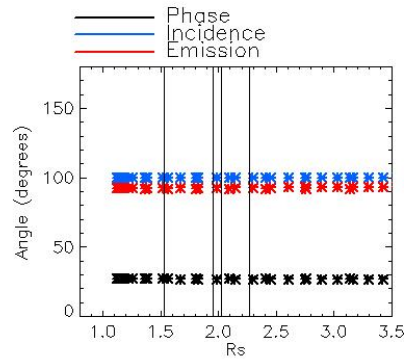
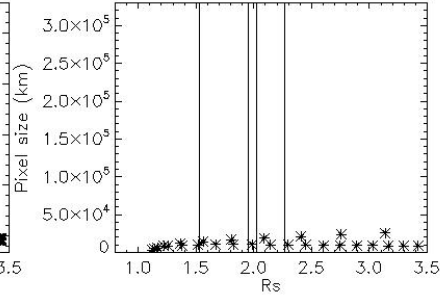
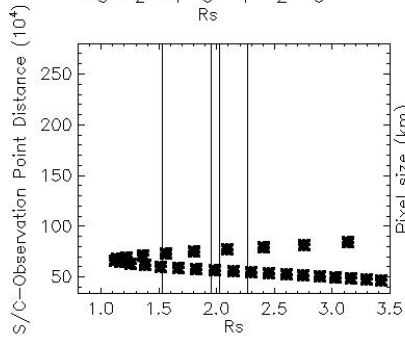


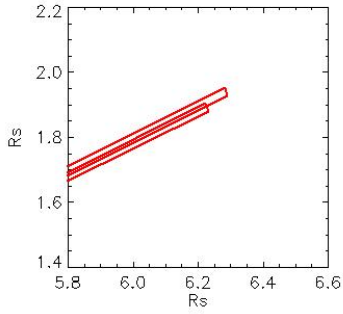
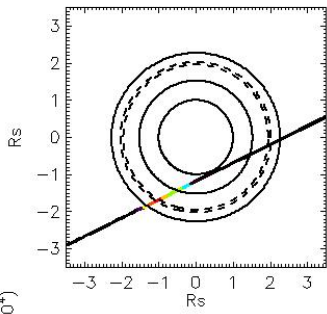
Observation Name:
UVS_051RLRADSCAN001_ISS

Observation Date:
2007_298_01_46_17

Observation Duration:
240 S

Integration time = 240 S



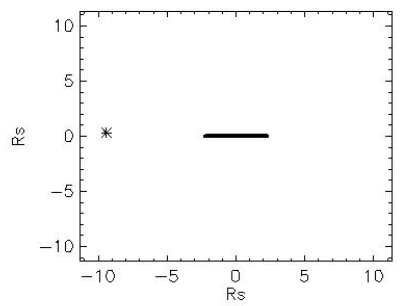
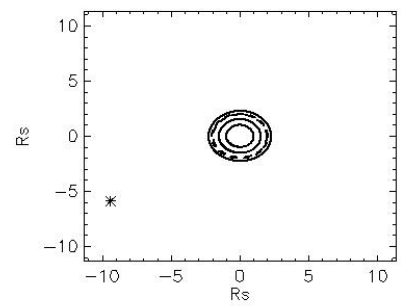
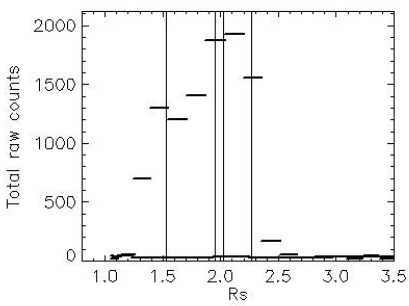
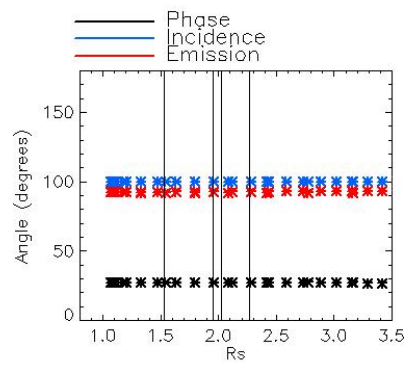
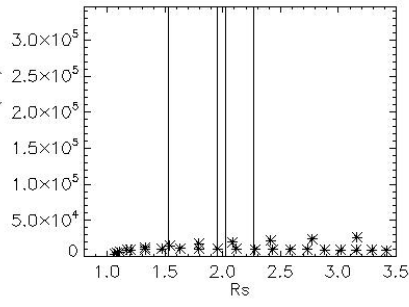
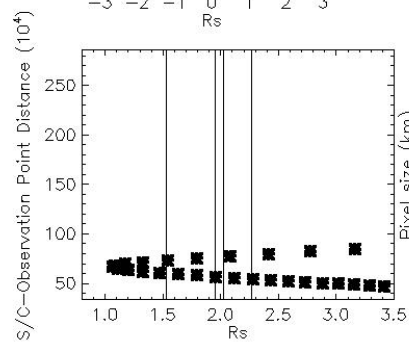


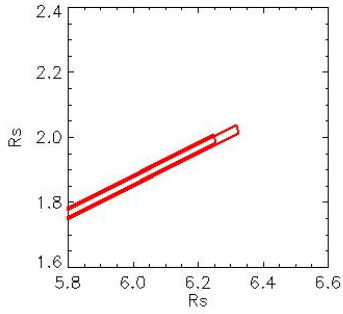
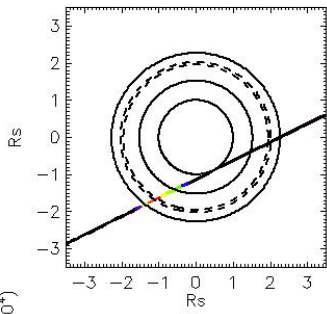
Observation Name:
UVS_051RLRADSCAN001_ISS

Observation Date:
2007_298_01_50_44

Observation Duration:
240 S

Integration time = 240 S



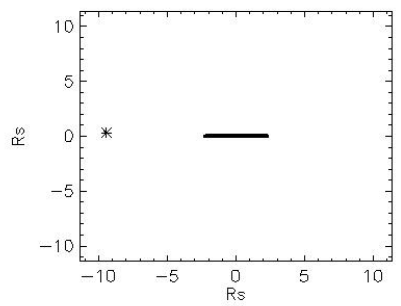
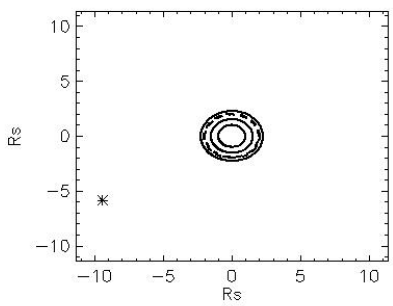
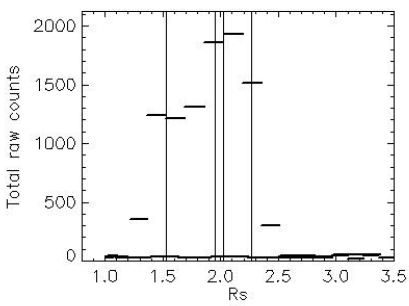
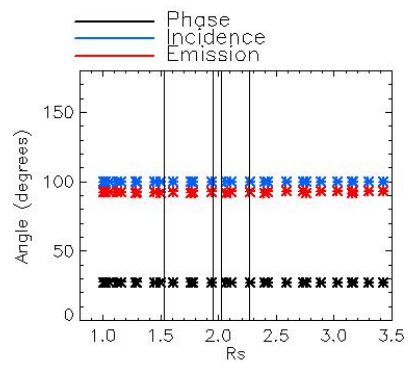
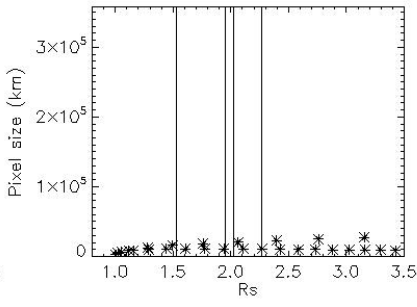
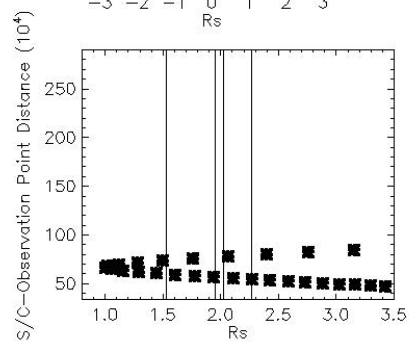


Observation Name:
UVS_051RLRADSCAN001_ISS

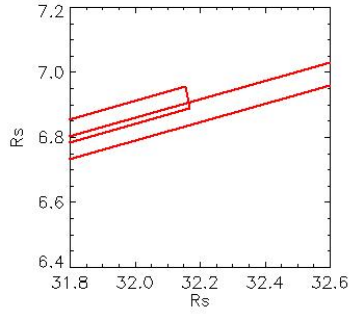
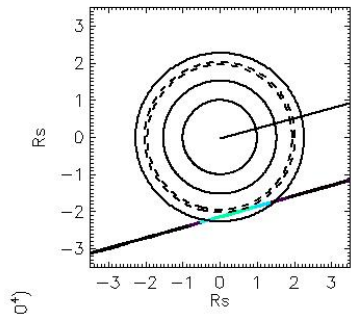
Observation Date:
2007_298_01_55_11

Observation Duration:
240 S

Integration time = 240 S



— Phase
— Incidence
— Emission

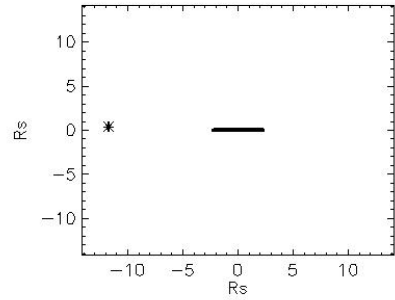
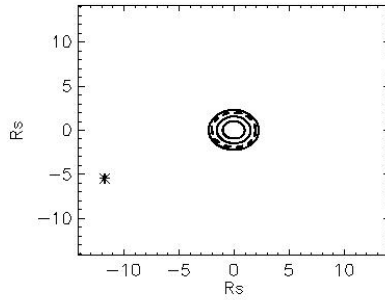
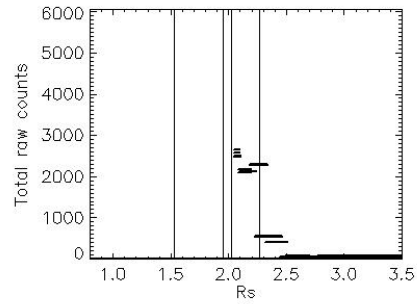
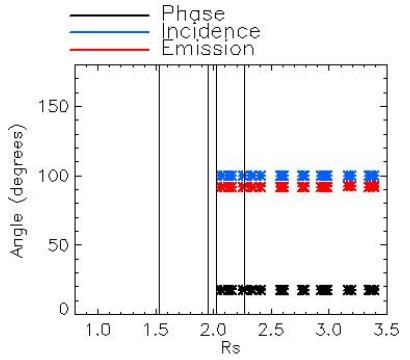
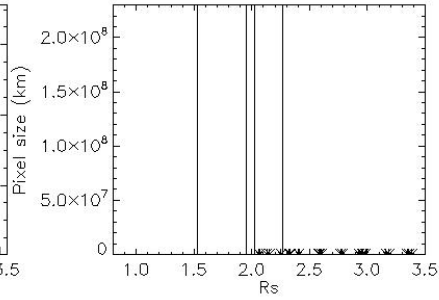
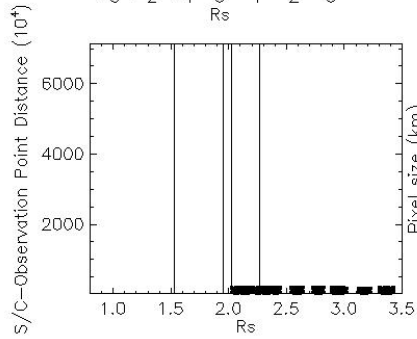


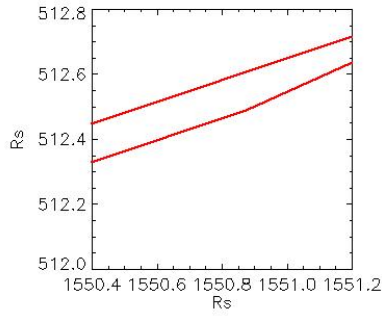
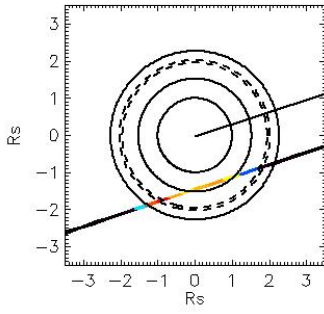
Observation Name:
UMS_051RLPHOTOMLIT001_JSS

Observation Date:
2007_298_06_08_53

Observation Duration:
900 S

Integration time = 300 S





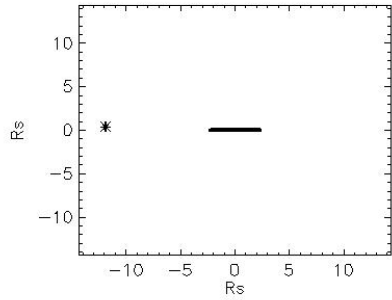
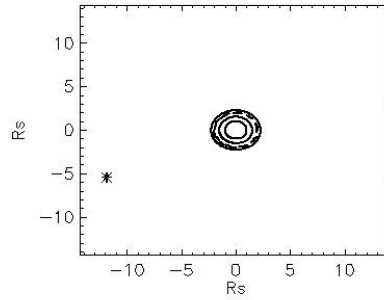
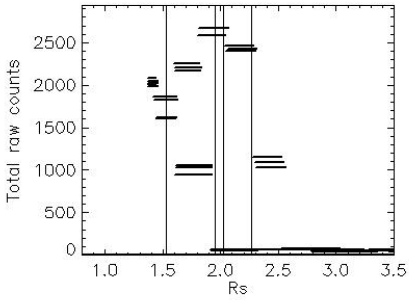
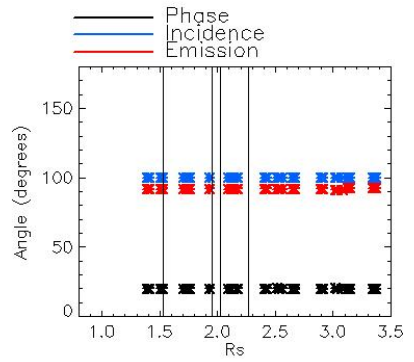
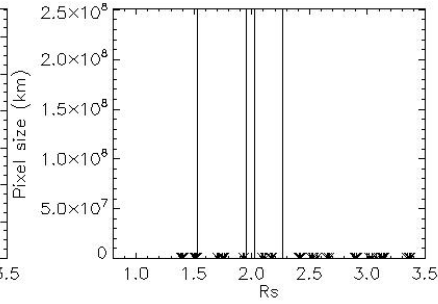
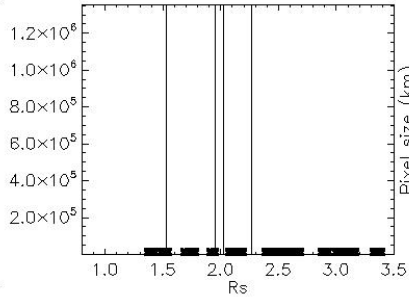
Observation Name:
UMS_051RLPHOTOMLIT001_JSS

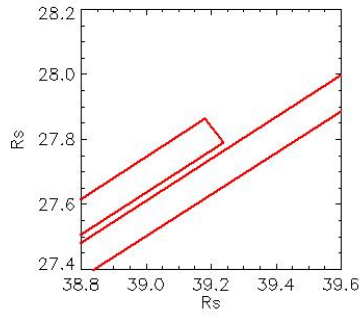
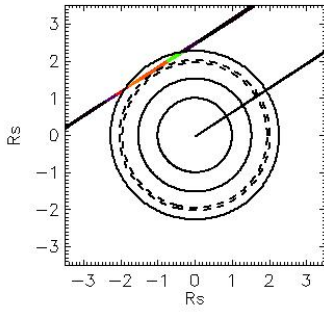
Observation Date:
2007_298_06_28_30

Observation Duration:
900 S

Integration time = 300 S

y / Observation Point Distance (u)





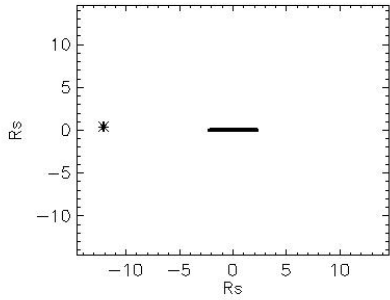
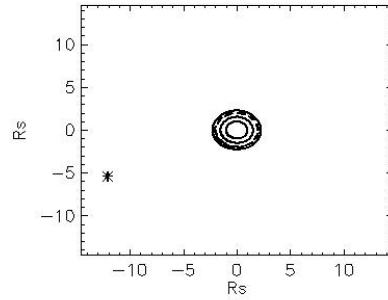
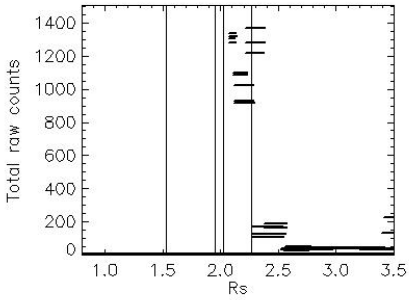
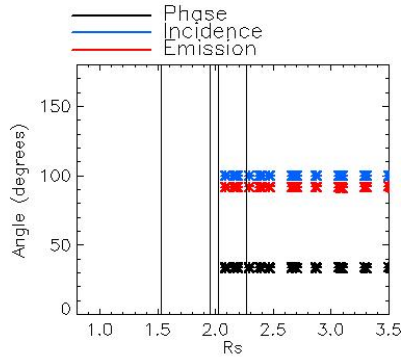
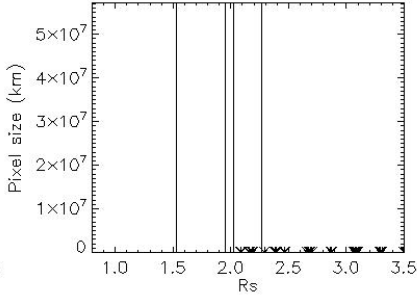
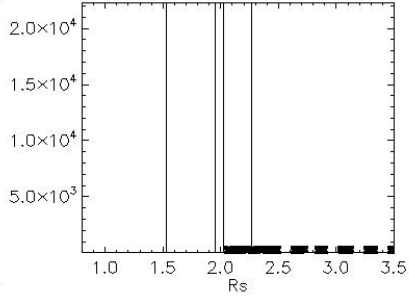
Observation Name:
UMS_051RLPHOTOMLIT001_JSS

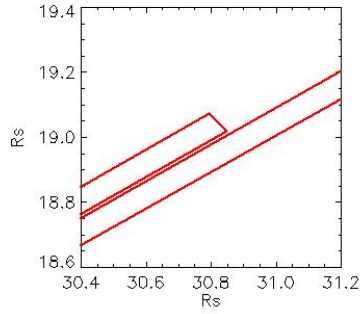
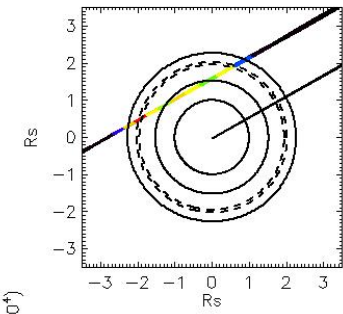
Observation Date:
2007_298_06_52_53

Observation Duration:
900 S

Integration time = 300 S

$\sigma / \sigma_{\text{Observation Point Distance}} (\mu)$



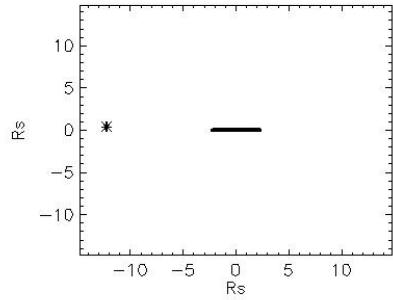
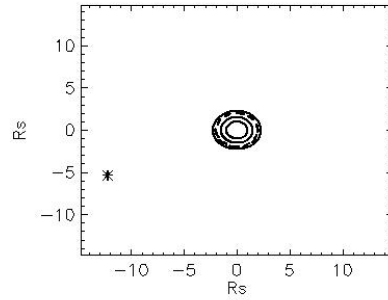
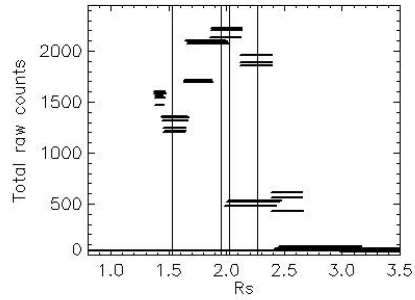
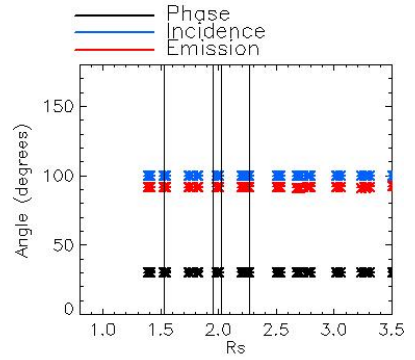
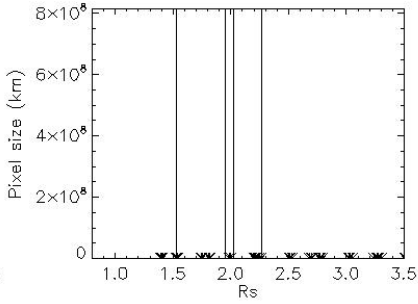
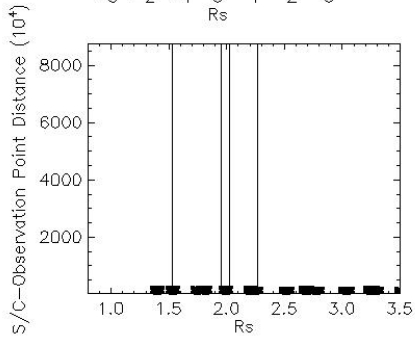


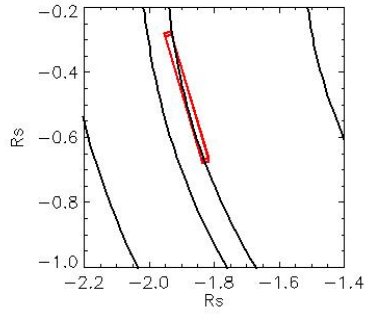
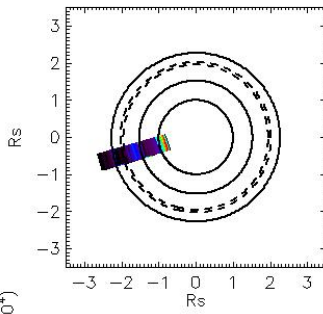
Observation Name:
UMS_051RLPHOTOMLIT001_JSS

Observation Date:
2007_298_07_12_30

Observation Duration:
900 S

Integration time = 300 S



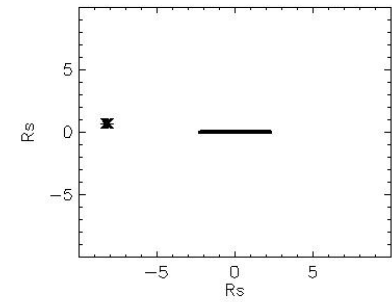
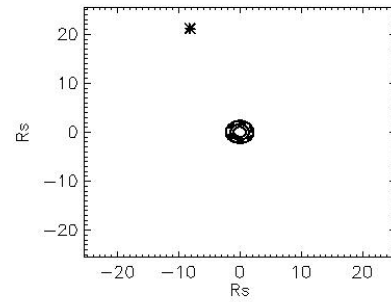
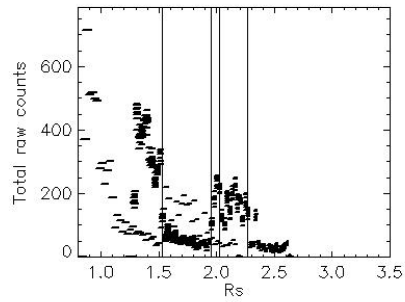
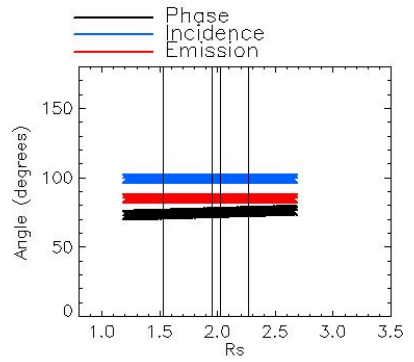
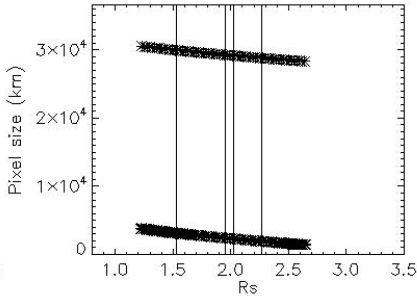
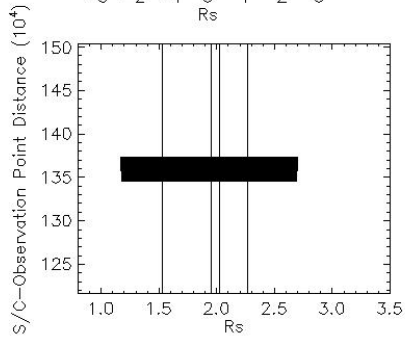


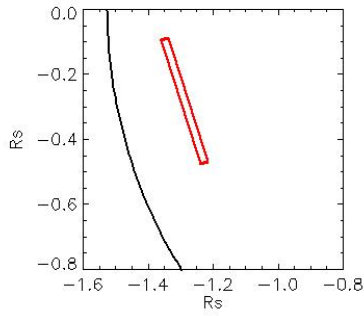
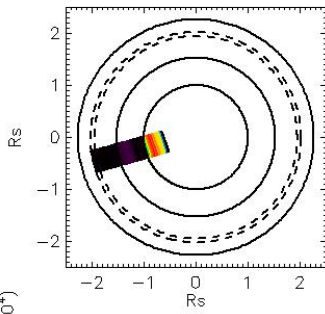
Observation Name:
UMS_052RLLATPHASE001_VIMS

Observation Date:
2007_319_04_40_05

Observation Duration:
3300 S

Integration time = 300 S



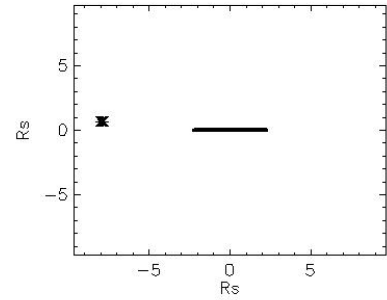
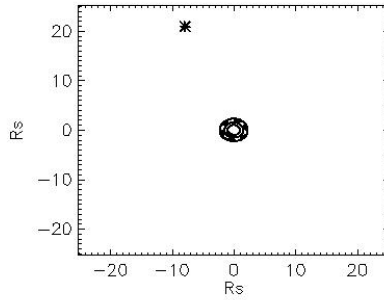
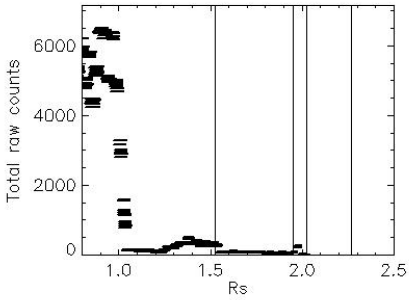
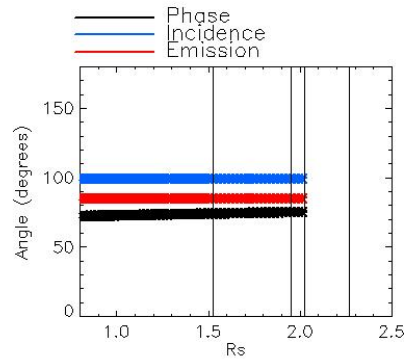
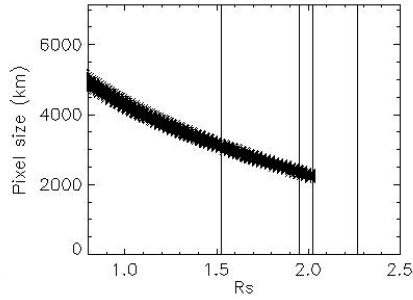
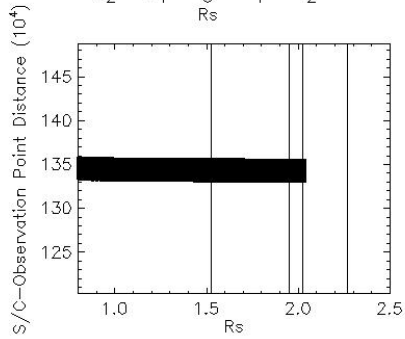


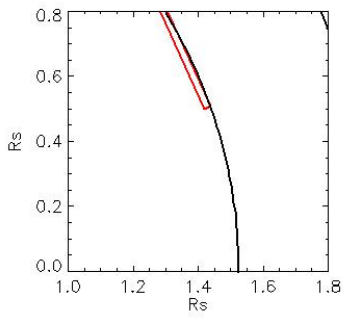
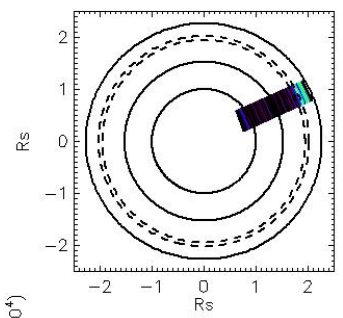
Observation Name:
UMS_052RLLATPHASE001_VIMS

Observation Date:
2007_319_05_36_39

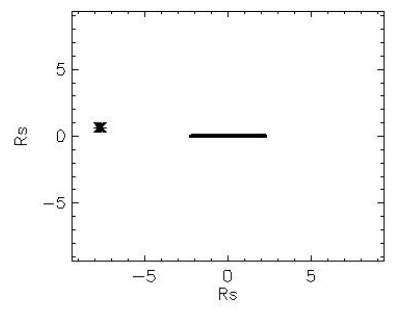
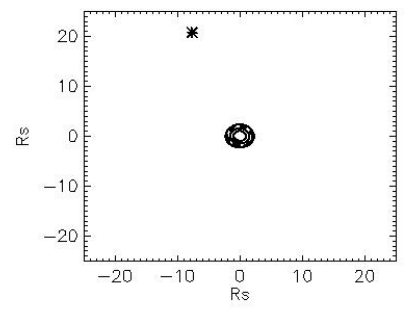
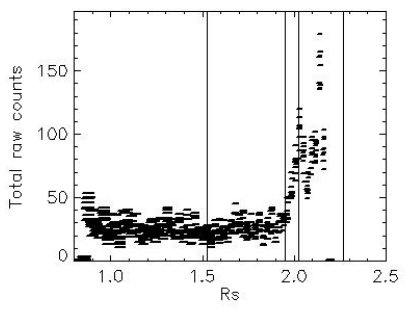
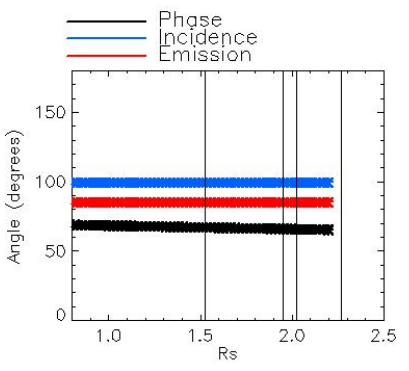
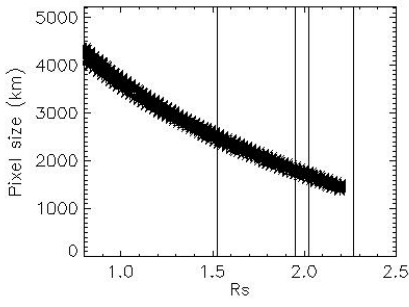
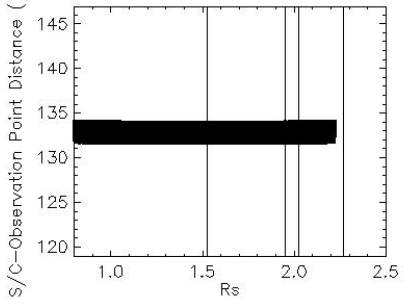
Observation Duration:
3000 S

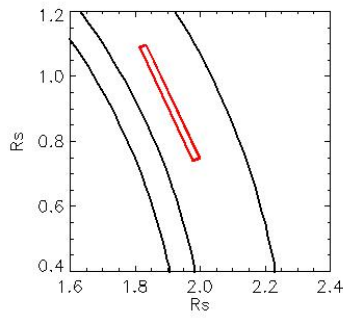
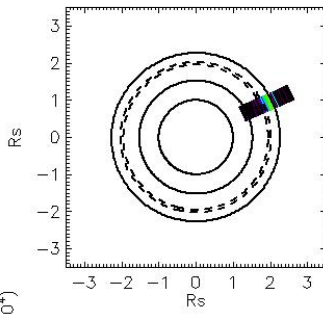
Integration time = 300 S





Observation Name:
 UVS_052RLLATPHASE001_VIMS
 Observation Date:
 2007_319_06_36_55
 Observation Duration:
 3000 S
 Integration time = 300 S



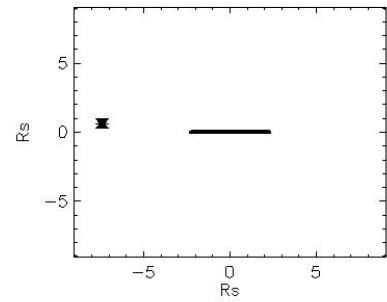
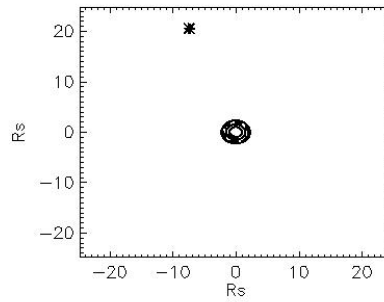
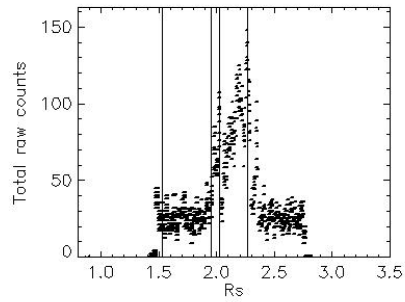
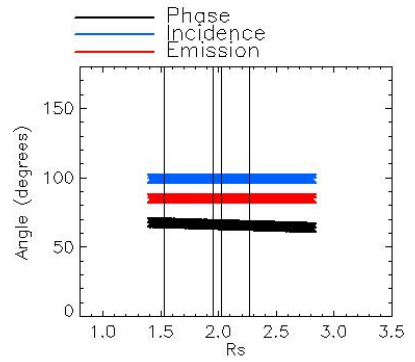
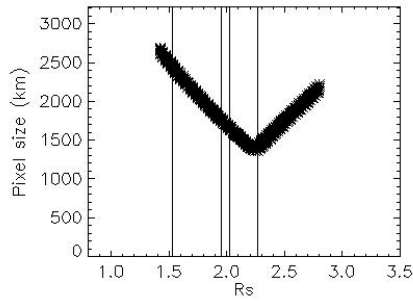
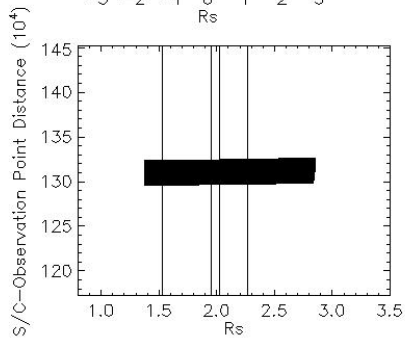


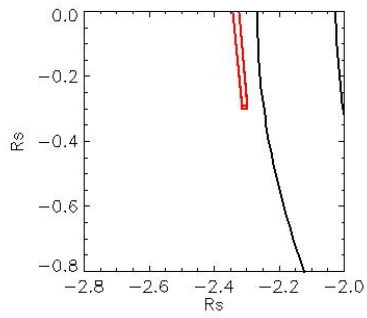
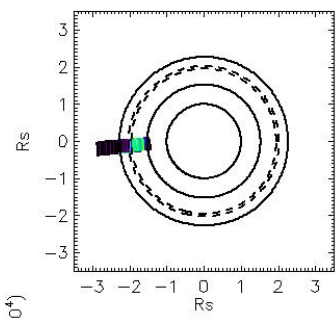
Observation Name:
UVS_052RLLATPHASE001_VIMS

Observation Date:
2007_319_07_33_29

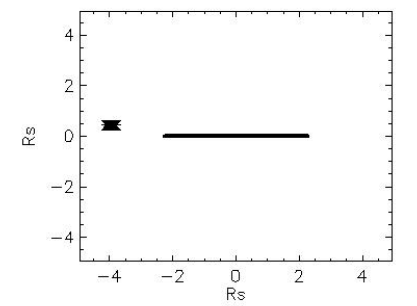
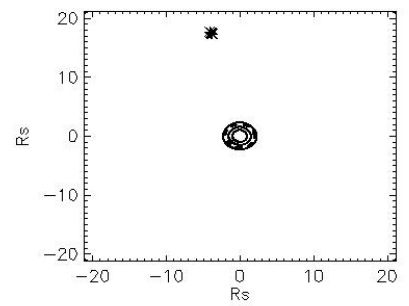
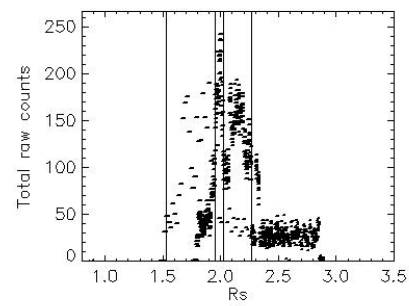
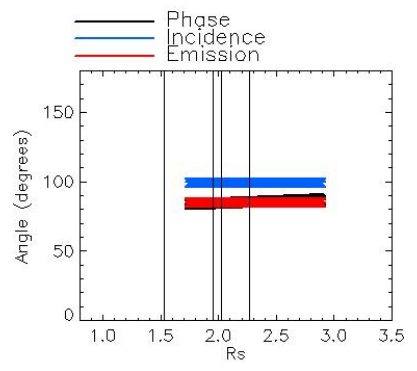
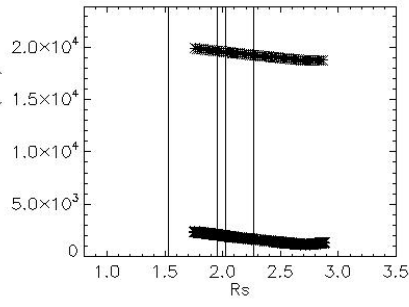
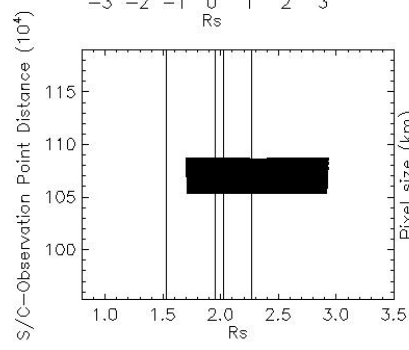
Observation Duration:
3300 S

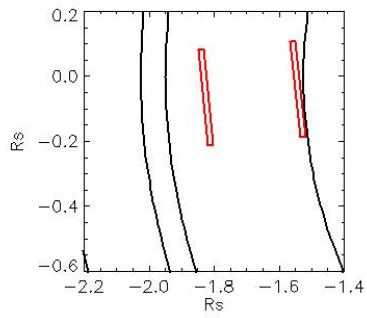
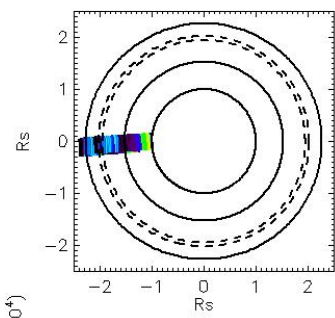
Integration time = 300 S



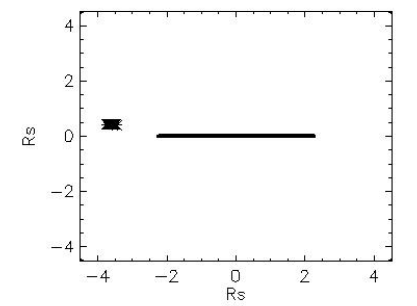
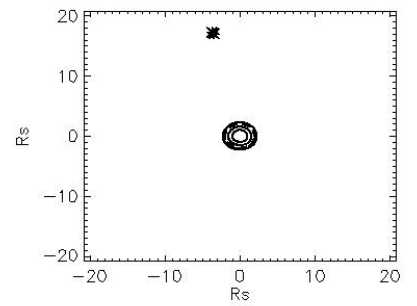
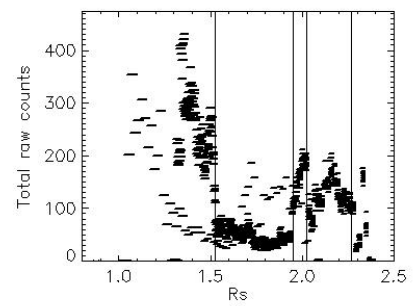
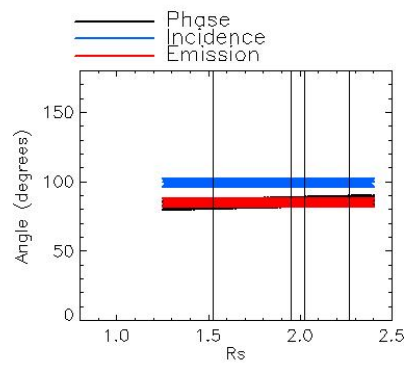
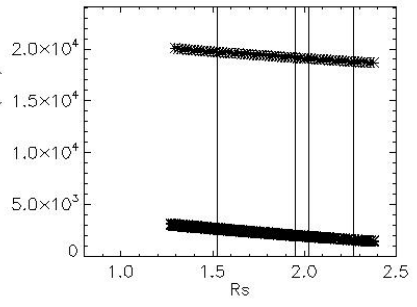
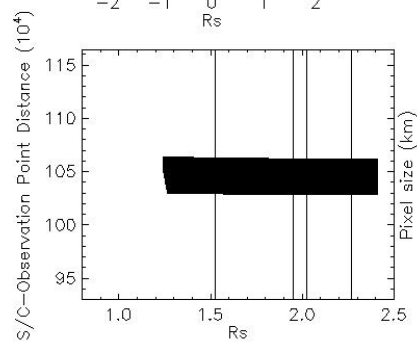


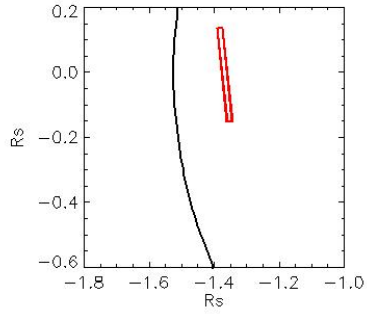
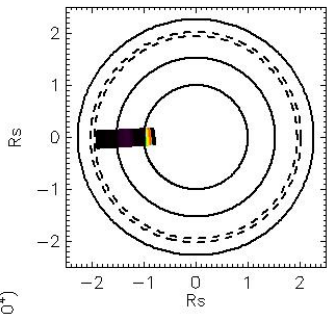
Observation Name:
 UVS_052RLLATPHASE002_VIMS
 Observation Date:
 2007_319_19_43_34
 Observation Duration:
 4200 S
 Integration time = 300 S





Observation Name:
 UVS_052RLLATPHASE002_VIMS
 Observation Date:
 2007_319_20_55_18
 Observation Duration:
 4200 S
 Integration time = 300 S



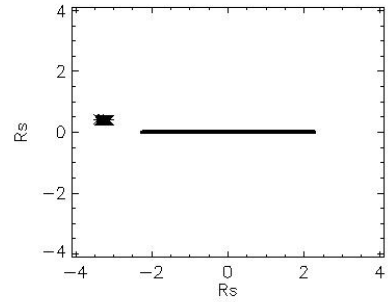
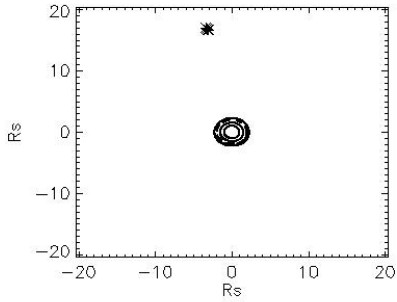
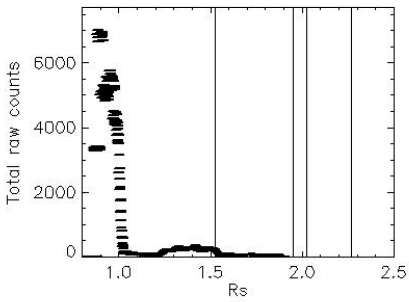
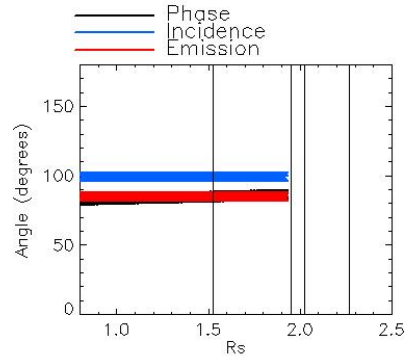
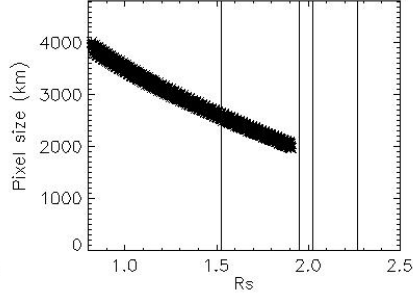
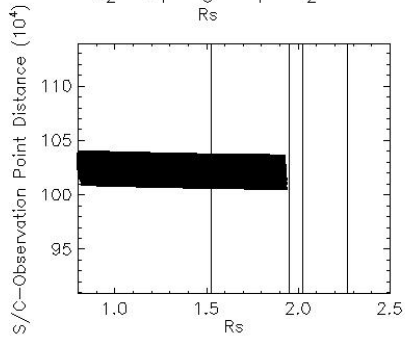


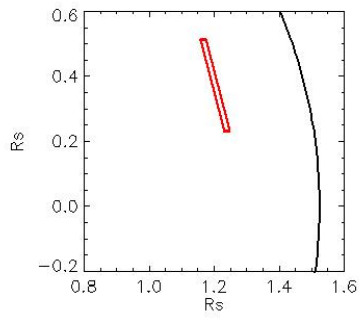
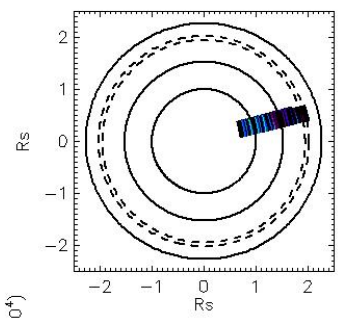
Observation Name:
UMS_052RLLATPHASE002_VIMS

Observation Date:
2007_319_22_07_02

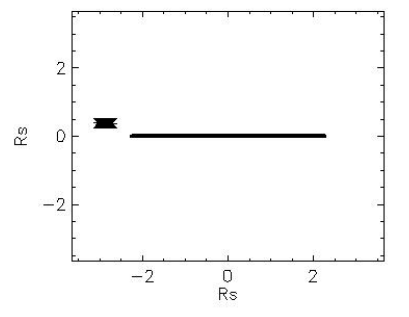
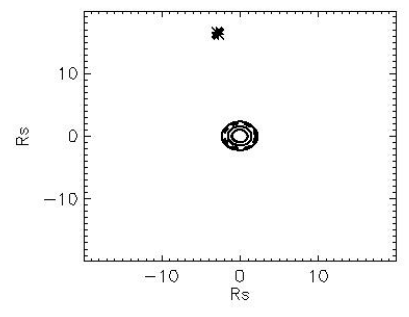
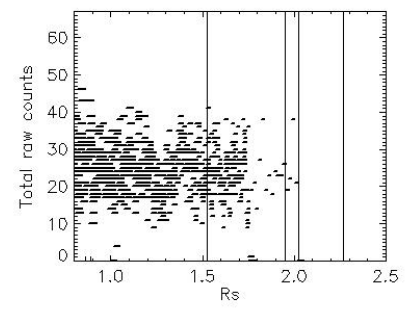
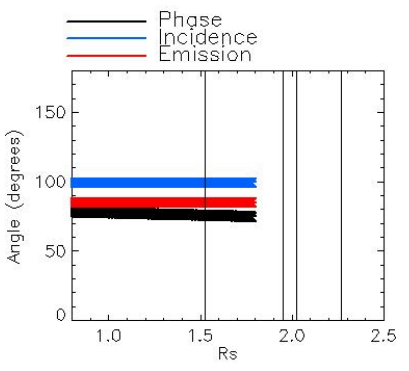
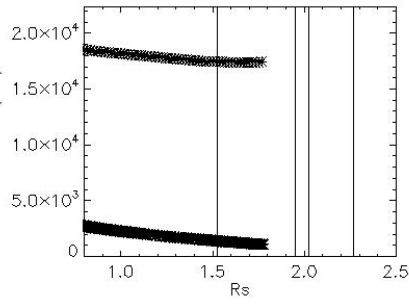
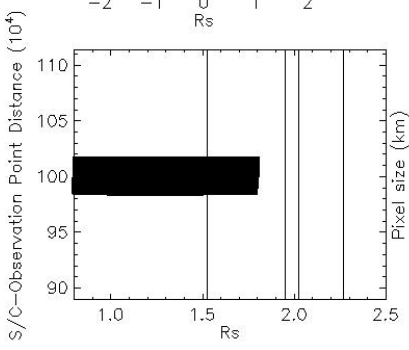
Observation Duration:
3900 S

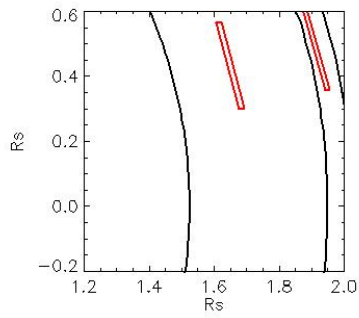
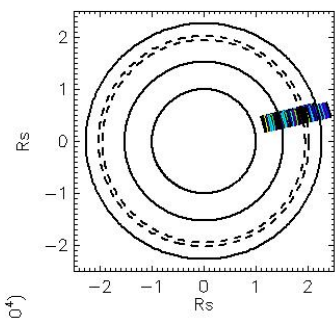
Integration time = 300 S





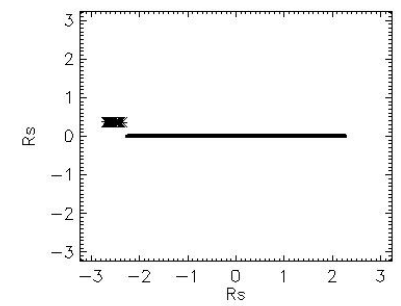
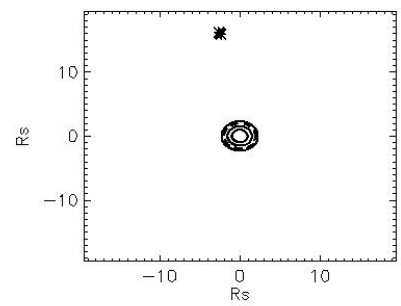
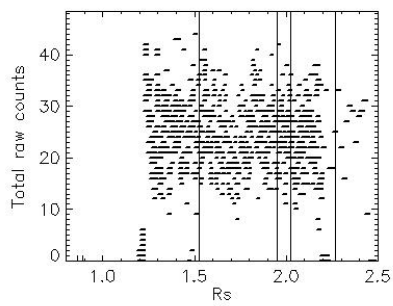
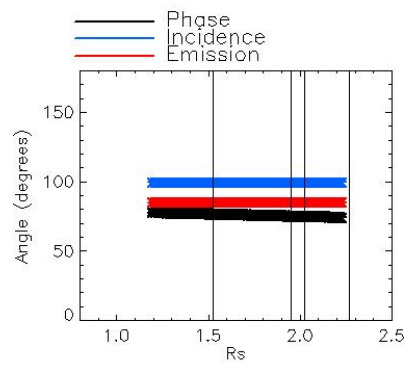
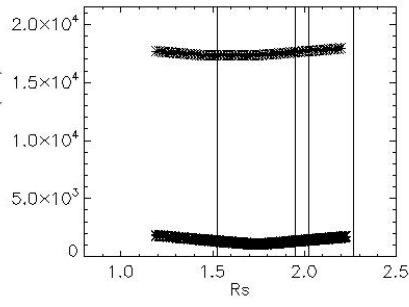
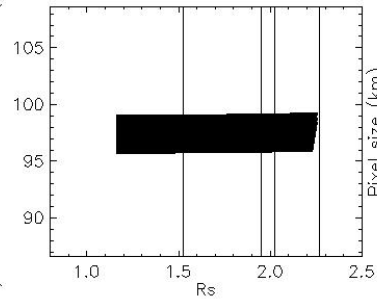
Observation Name:
 UVS_052RLLATPHASE002_VIMS
 Observation Date:
 2007_319_23_21_39
 Observation Duration:
 4200 S
 Integration time = 300 S

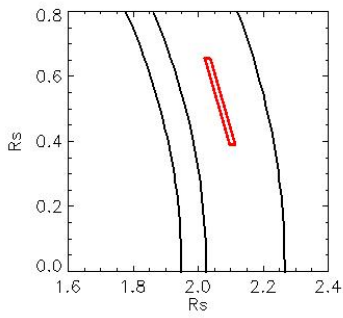
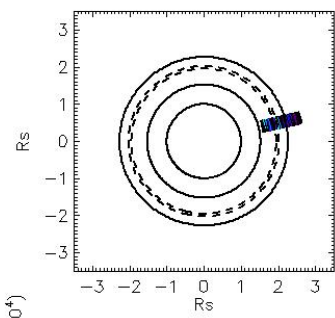




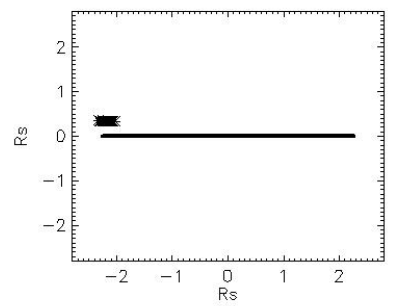
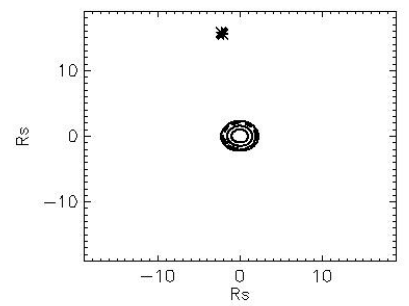
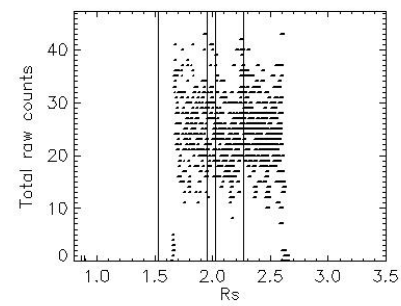
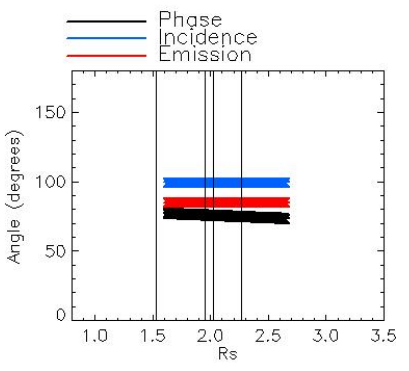
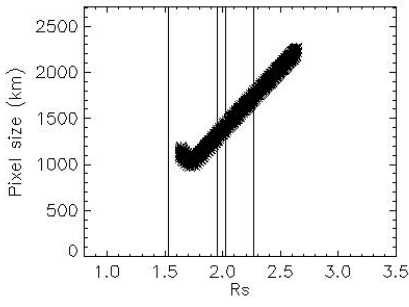
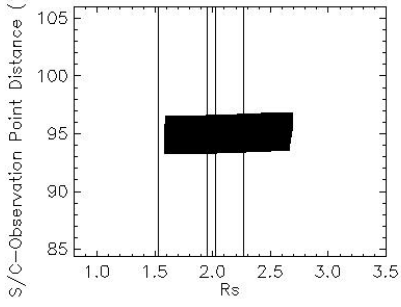
Observation Name:
 UVS_052RLLATPHASE002_VIMS
 Observation Date:
 2007_320_00_33_24
 Observation Duration:
 4200 S
 Integration time = 300 S

S/C—Observation Point Distance (10^4)

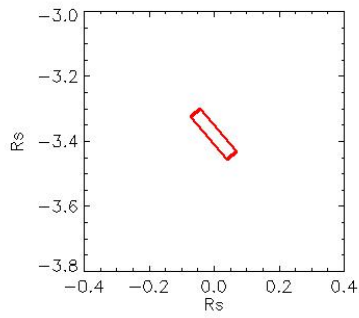
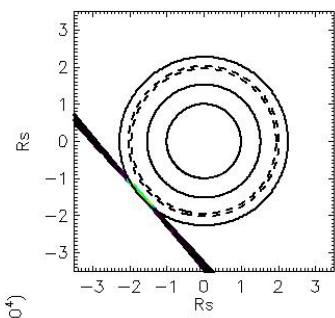




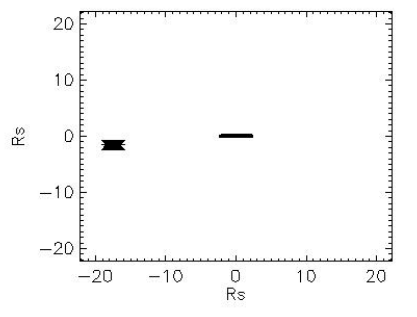
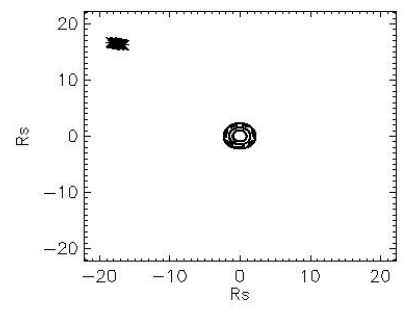
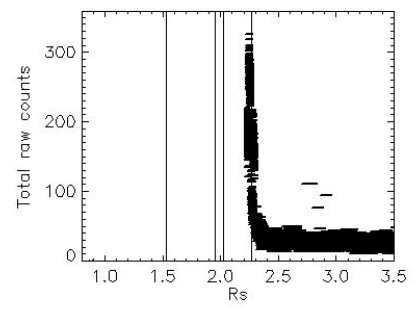
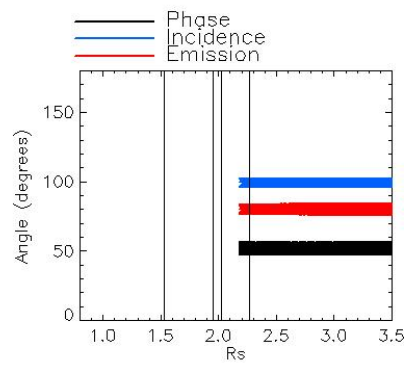
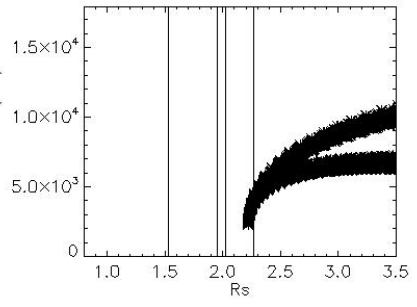
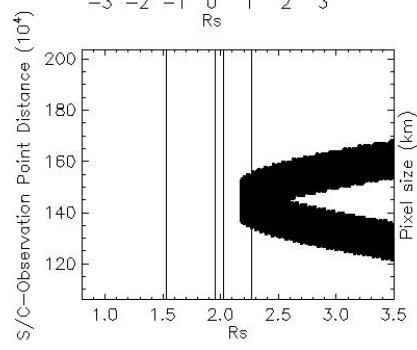
Observation Name:
 UVS_052RLATPHASE002_VIMS
 Observation Date:
 2007_320_01_45_08
 Observation Duration:
 3900 S
 Integration time = 300 S

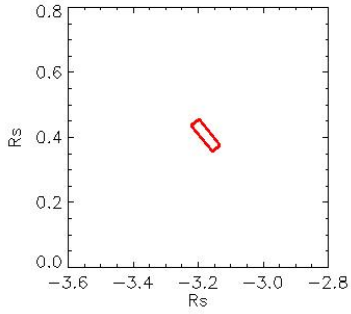
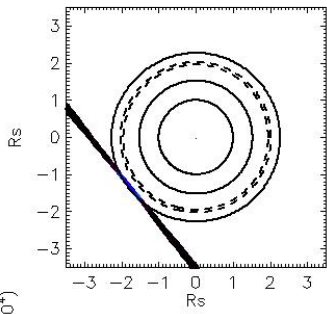


— Phase
 — Incidence
 — Emission



Observation Name:
 UVS_053RLLPHRDFM0V001_ISS
 Observation Date:
 2007_334_18_53_52
 Observation Duration:
 26700 S
 Integration time = 300 S





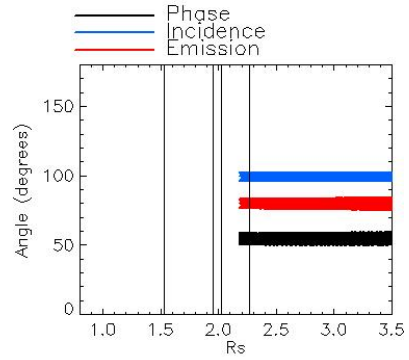
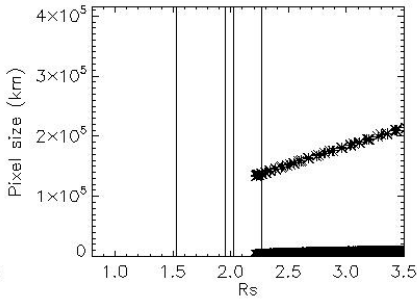
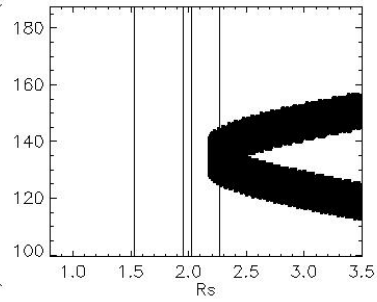
Observation Name:
UMS_053RLLPHRDFM0V001_JSS

Observation Date:
2007_335_02_18_51

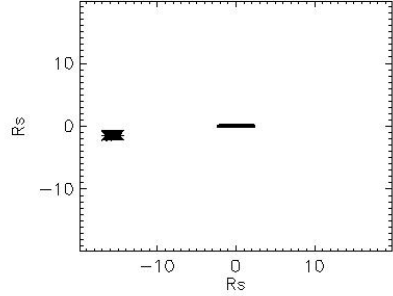
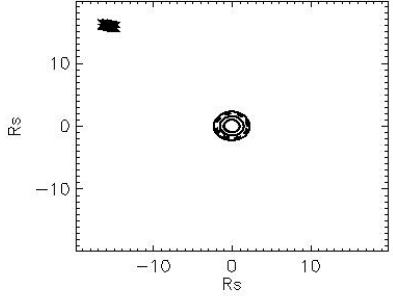
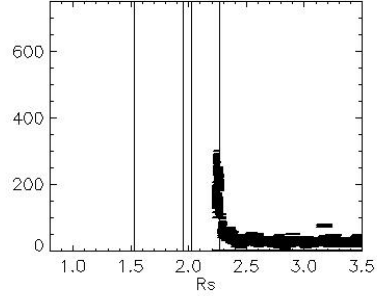
Observation Duration:
21300 S

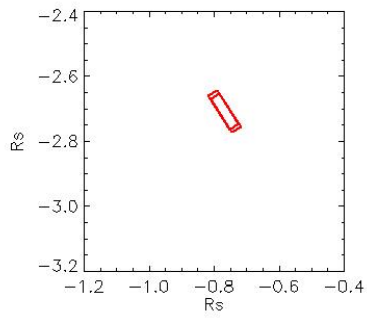
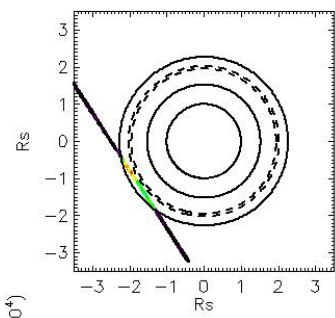
Integration time = 300 S

S/C—Observation Point Distance (10^4)

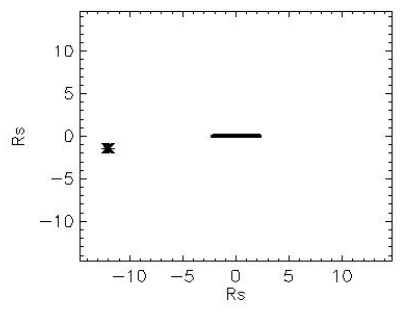
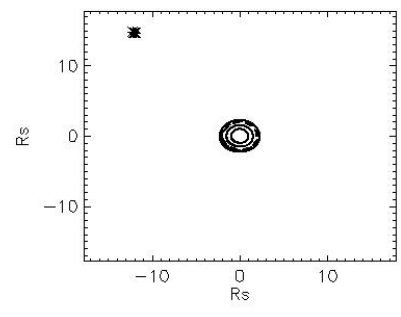
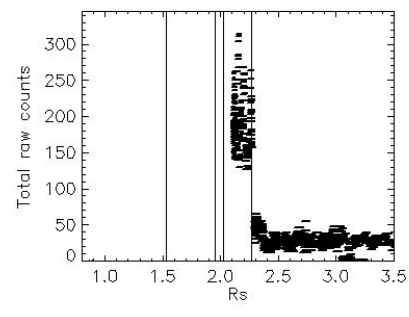
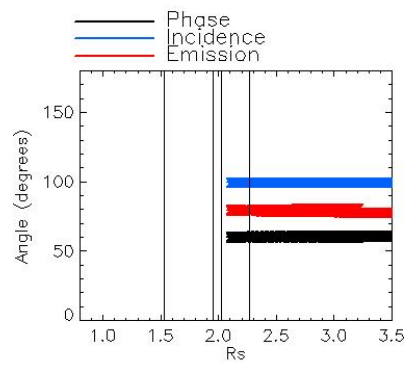
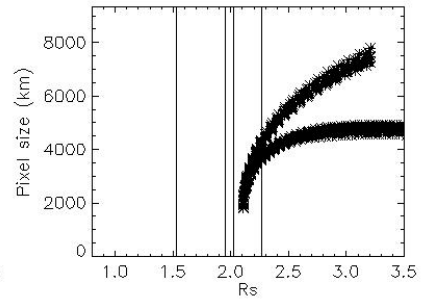
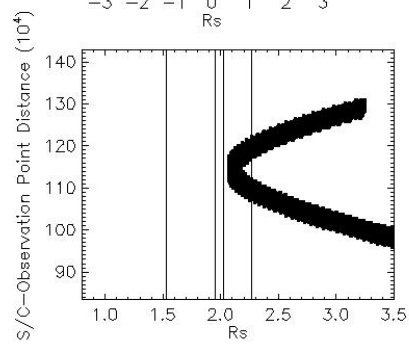


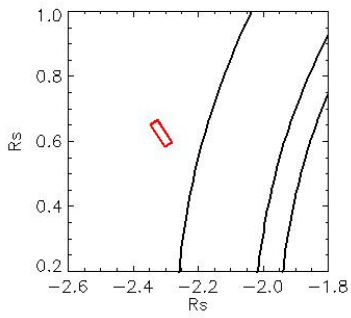
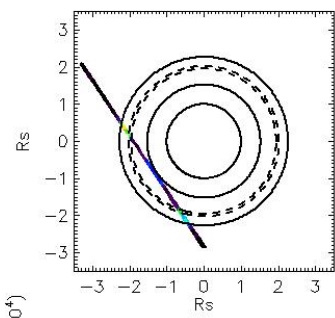
Total raw counts





Observation Name:
 UVS_053RLLATPHASE01_VIMS
 Observation Date:
 2007_335_16_39_22
 Observation Duration:
 3900 S
 Integration time = 300 S



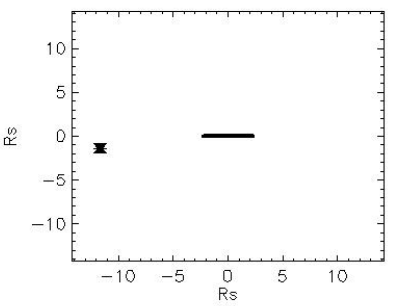
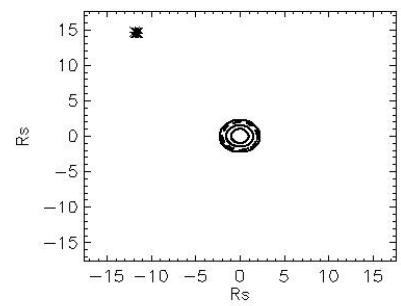
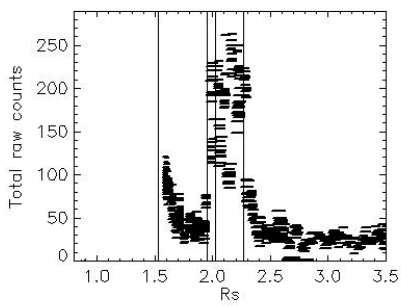
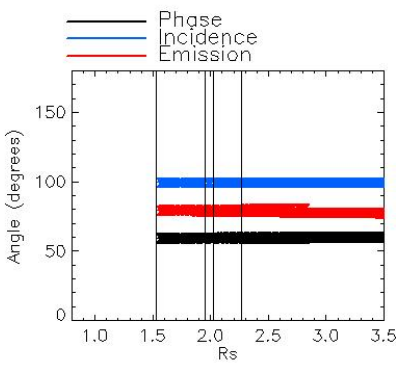
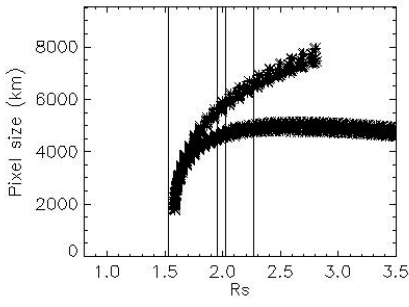
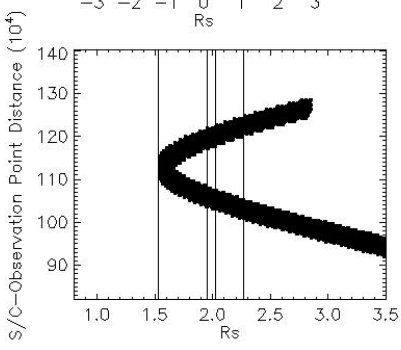


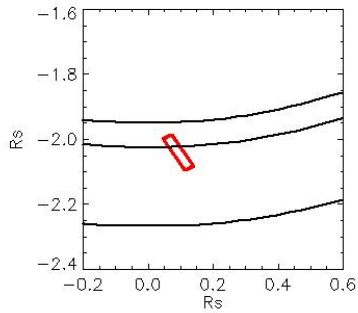
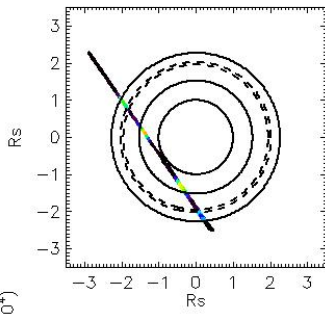
Observation Name:
UMS_053RLLATPHASE01_VIMS

Observation Date:
2007_335_17_46_58

Observation Duration:
3900 S

Integration time = 300 S





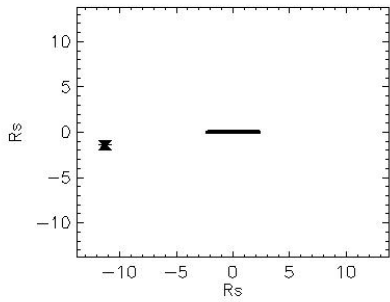
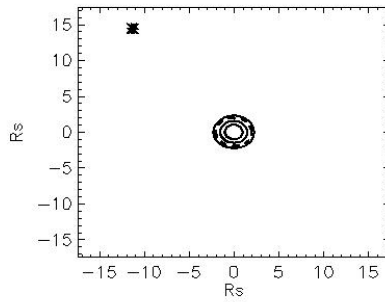
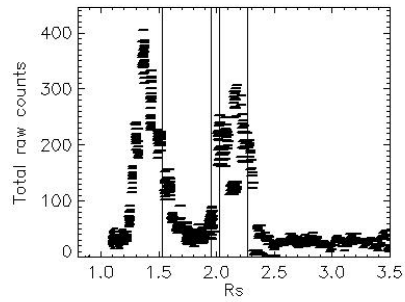
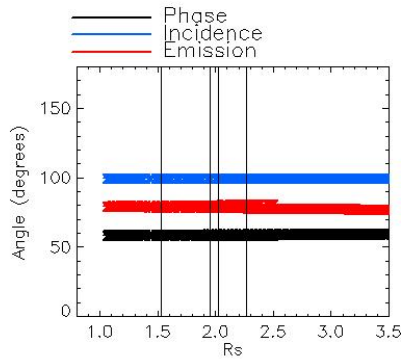
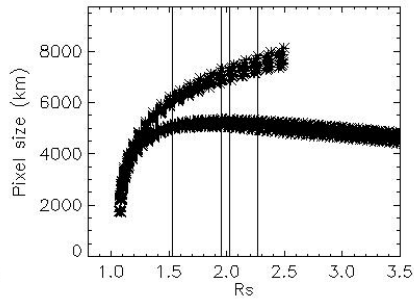
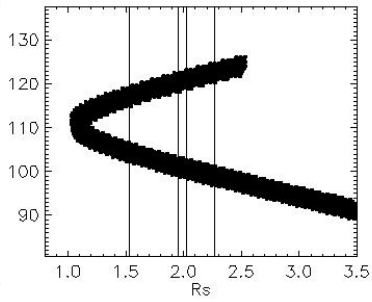
Observation Name:
UMS_053RLLATPHASE001_VIMS

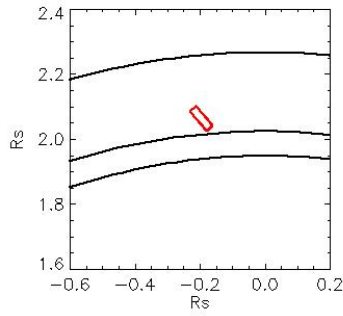
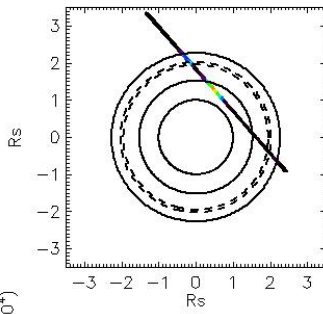
Observation Date:
2007_335_18_54_34

Observation Duration:
3900 S

Integration time = 300 S

S/C—Observation Point Distance (10^4)



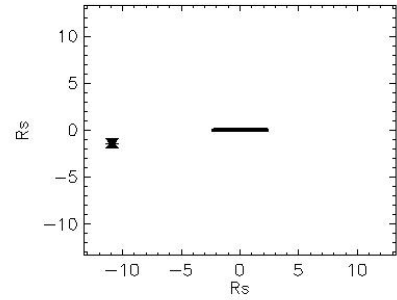
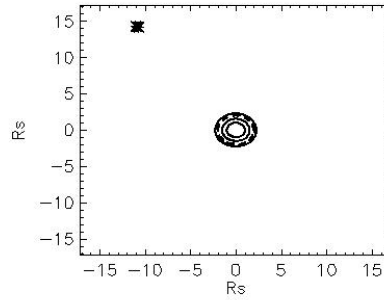
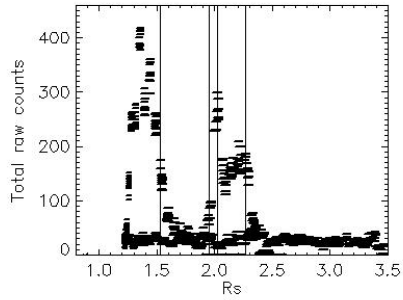
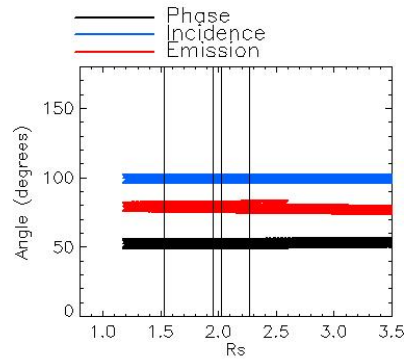
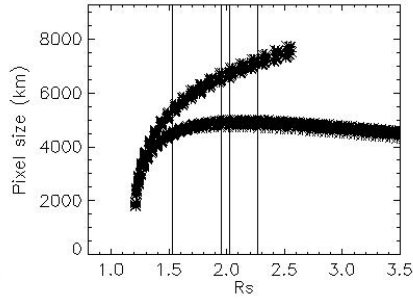
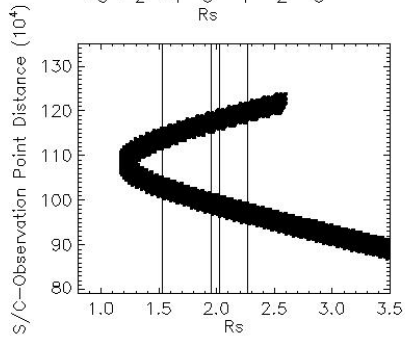


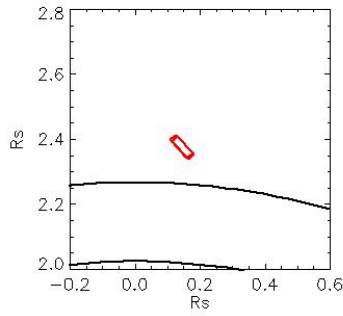
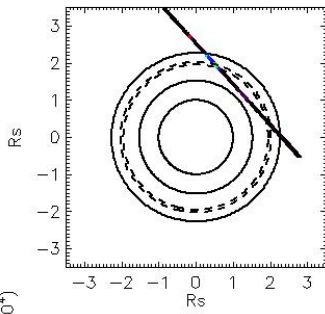
Observation Name:
UMS_053RLLATPHASE01_VIMS

Observation Date:
2007_335_20_07_10

Observation Duration:
3900 S

Integration time = 300 S



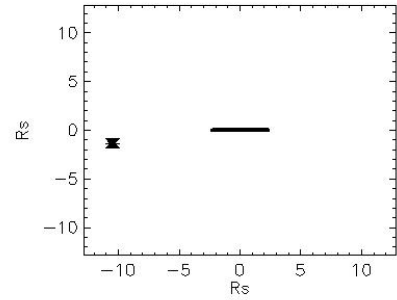
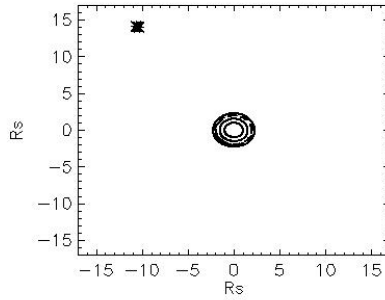
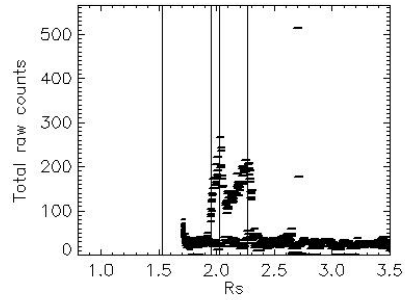
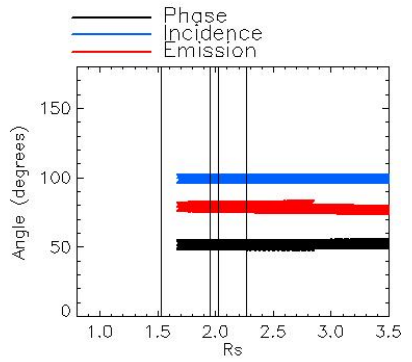
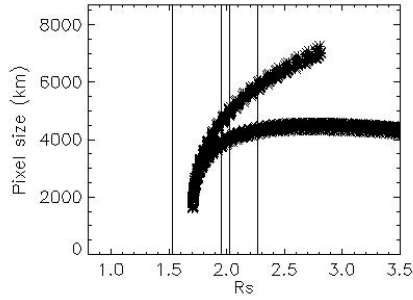
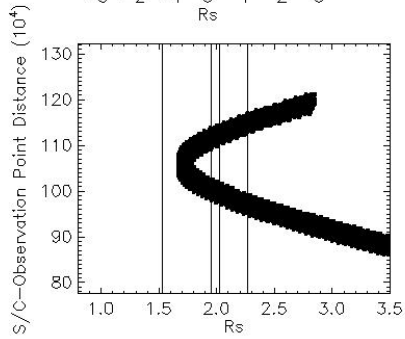


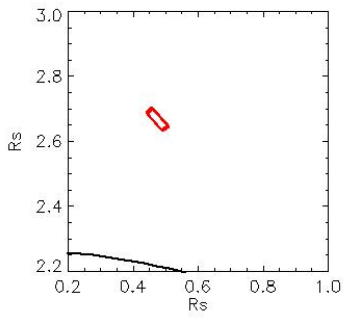
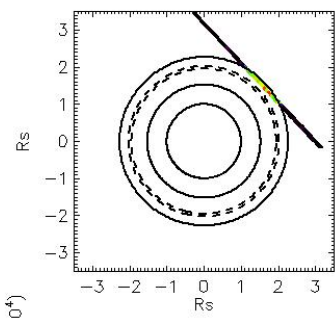
Observation Name:
UVS_053RLLATPHASE001_VIMS

Observation Date:
2007_335_21_14_46

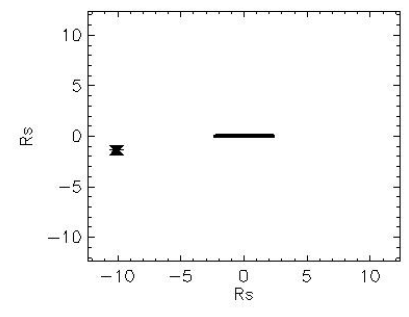
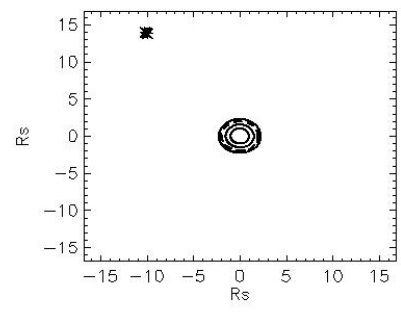
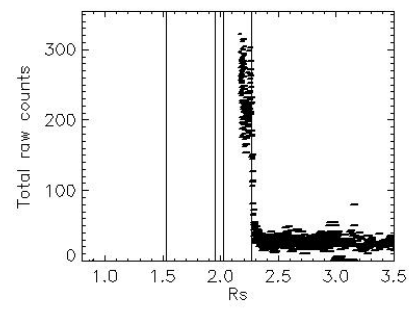
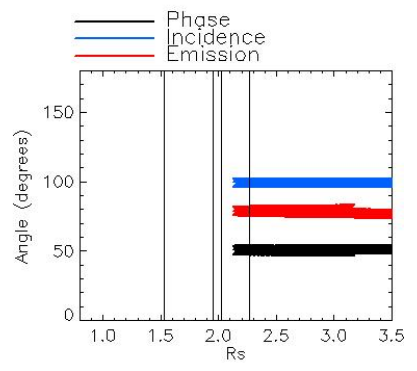
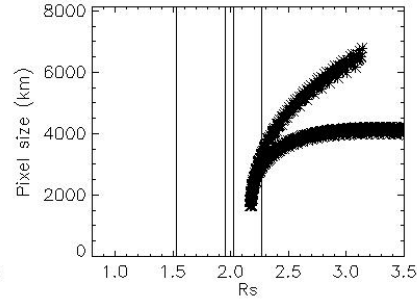
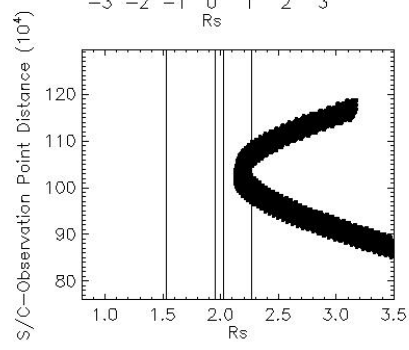
Observation Duration:
3900 S

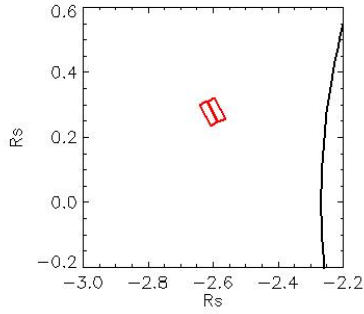
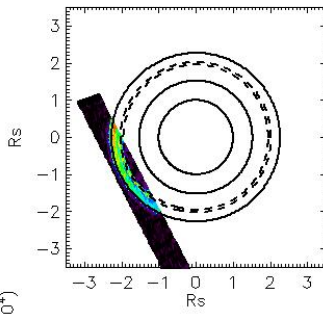
Integration time = 300 S





Observation Name:
 UVS_053RLLATPHASE01_VIMS
 Observation Date:
 2007_335_22_22_22
 Observation Duration:
 3900 S
 Integration time = 300 S





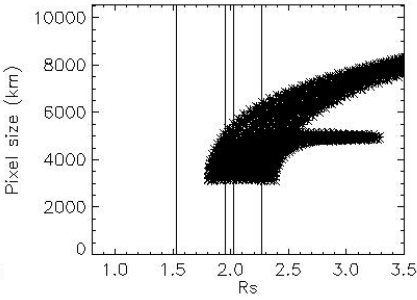
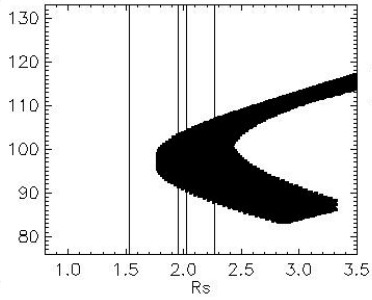
Observation Name:
UMS_053RLSUBMU10MP001_CIRS

Observation Date:
2007_336_00_04_51

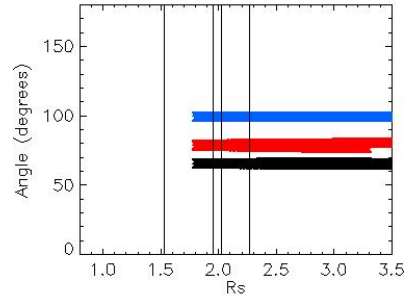
Observation Duration:
6600 S

Integration time = 300 S

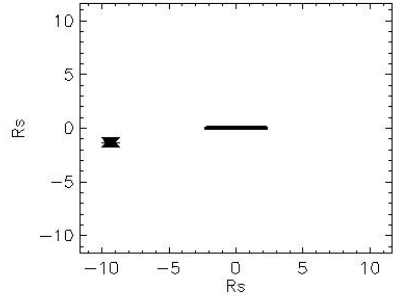
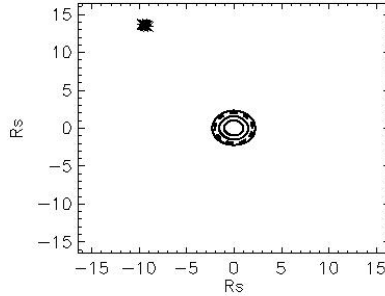
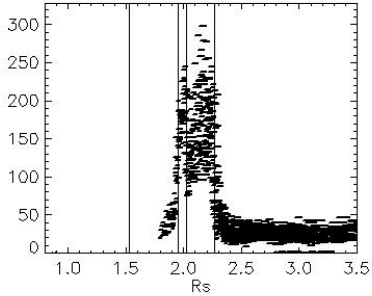
S/C—Observation Point Distance (10^4)

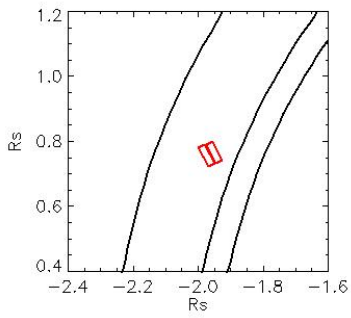
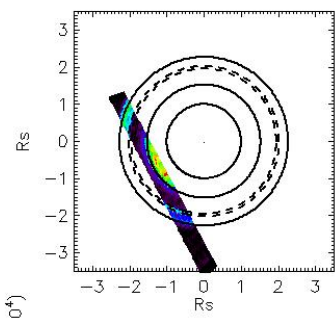


— Phase
— Incidence
— Emission

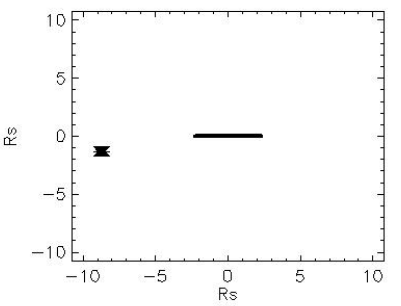
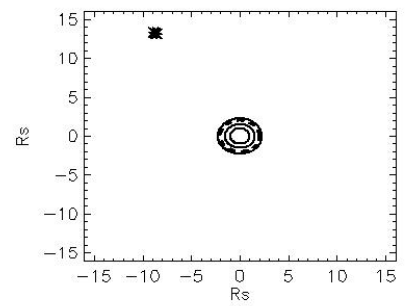
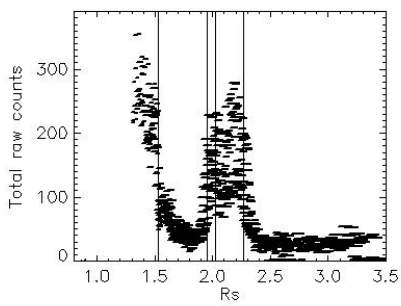
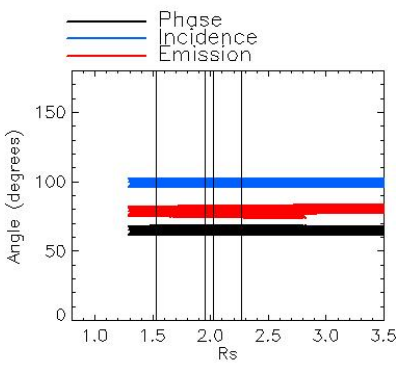
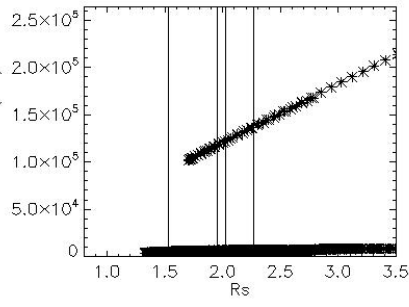
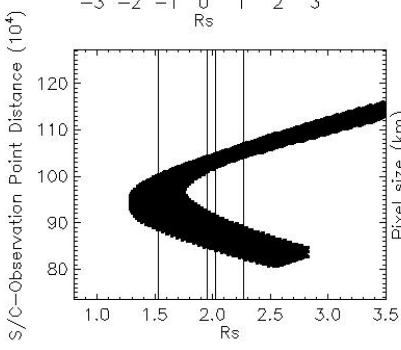


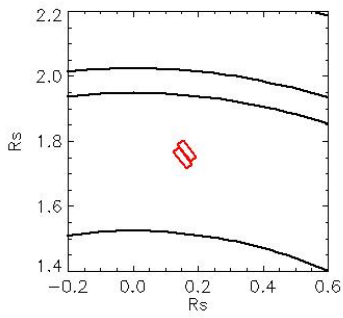
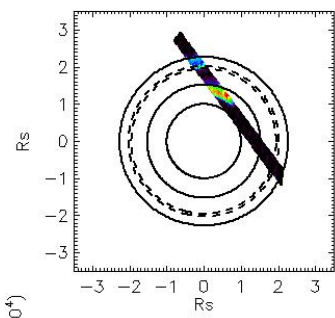
Total raw counts



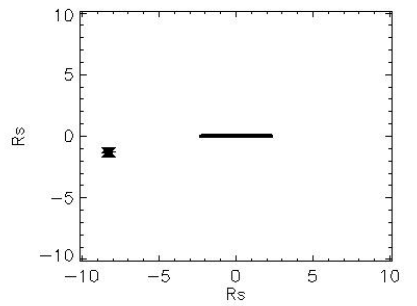
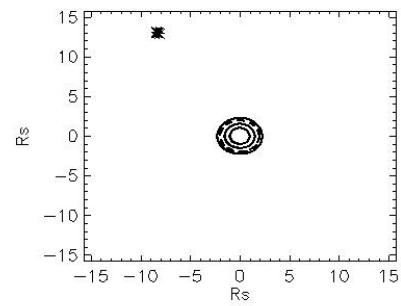
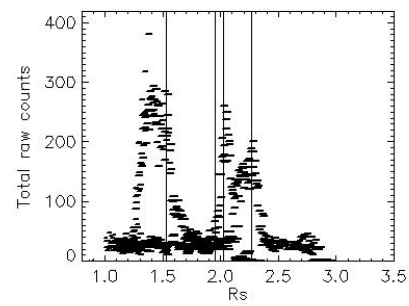
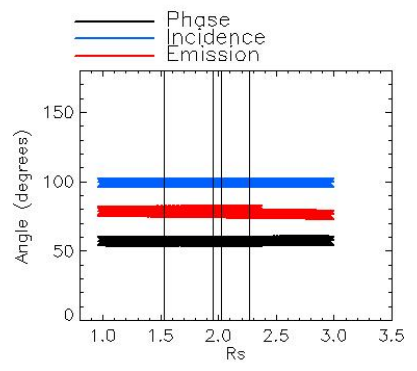
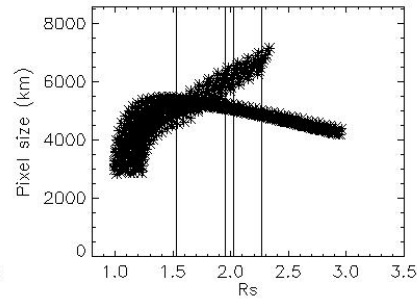
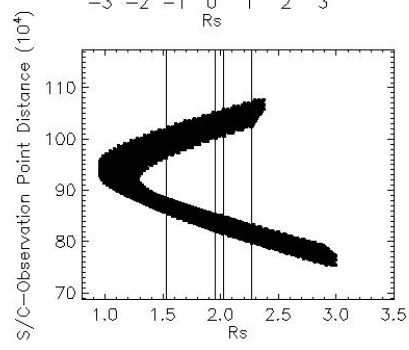


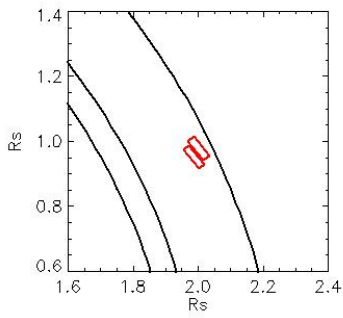
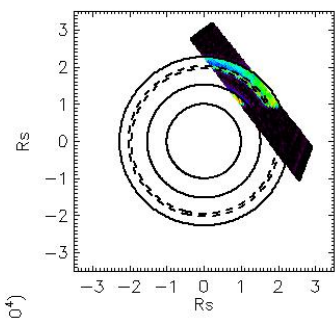
Observation Name:
 UVS_053RLSUBMU10MP001_CIRS
 Observation Date:
 2007_336_02_04_51
 Observation Duration:
 4800 S
 Integration time = 300 S





Observation Name:
 UVS_053RLSUBMU10MP001_CIRS
 Observation Date:
 2007_336_03_29_51
 Observation Duration:
 3300 S
 Integration time = 300 S





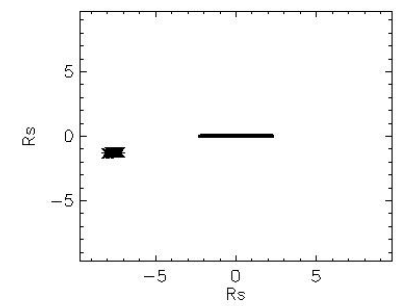
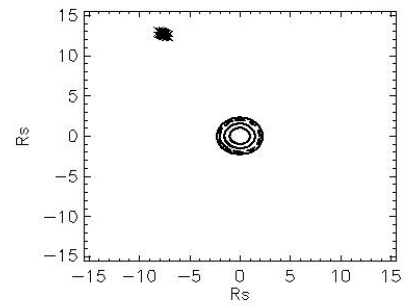
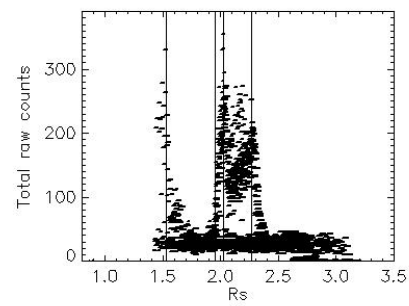
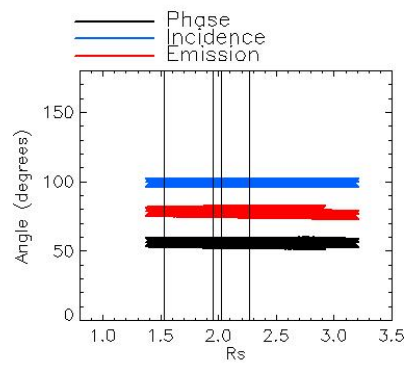
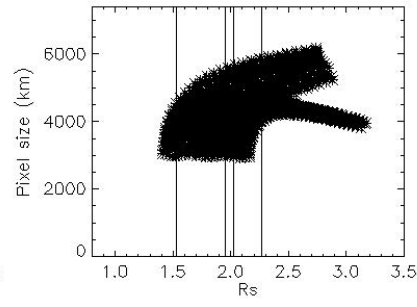
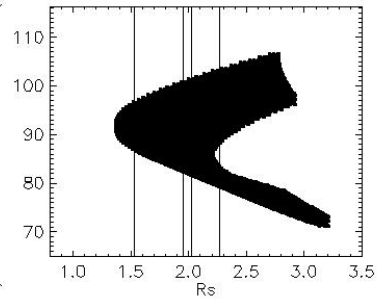
Observation Name:
UMS_053RLSUBMU10MP001_CIRS

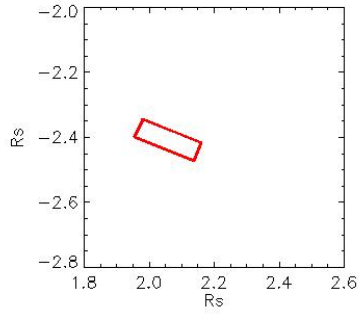
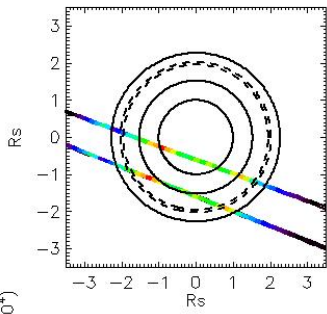
Observation Date:
2007_336_04_29_51

Observation Duration:
8700 S

Integration time = 300 S

S/C—Observation Point Distance (10^4)



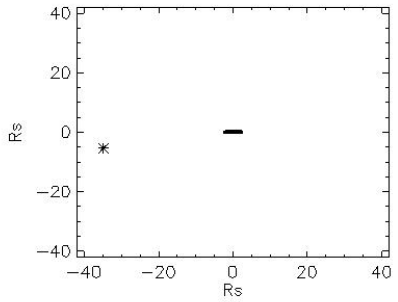
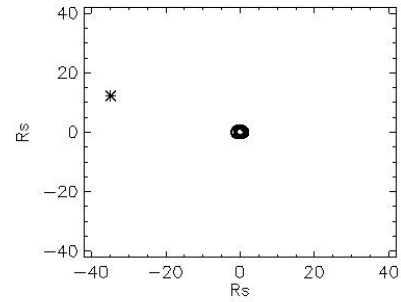
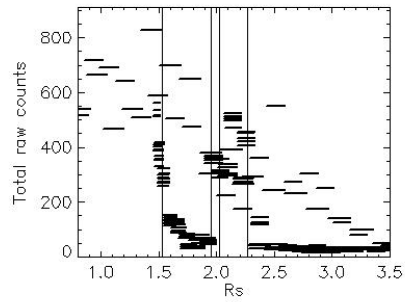
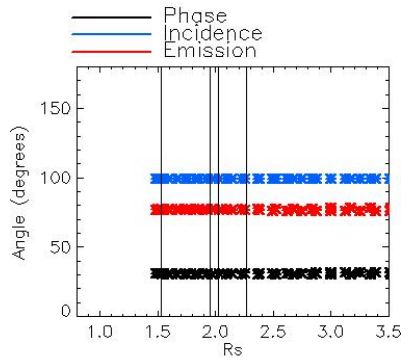
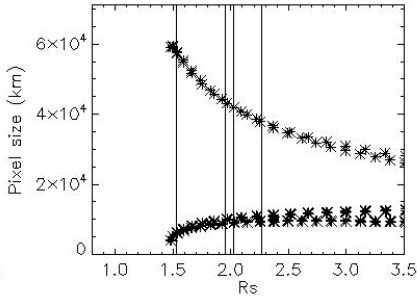
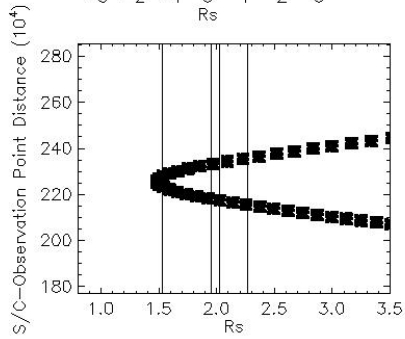


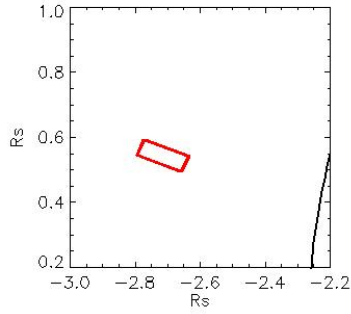
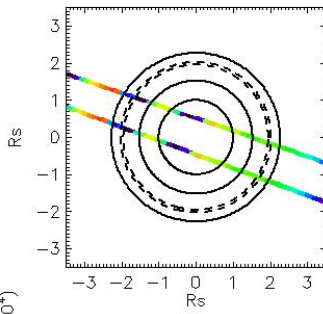
Observation Name:
UMS_053RLAPOMOSAIC001_VIMS

Observation Date:
2007_344_20_24_59

Observation Duration:
1800 S

Integration time = 300 S



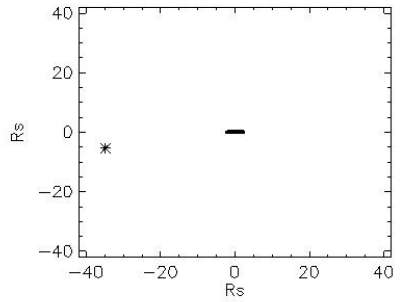
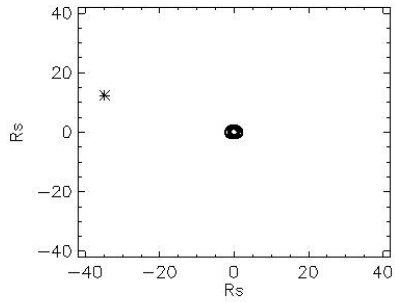
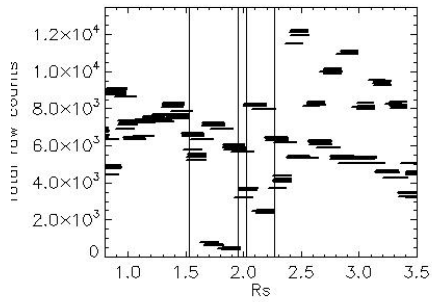
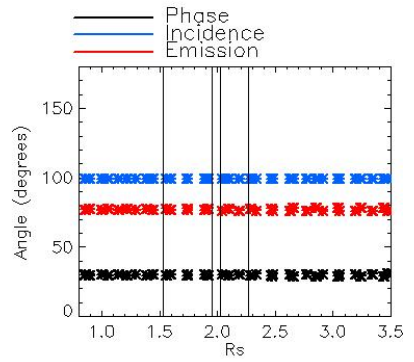
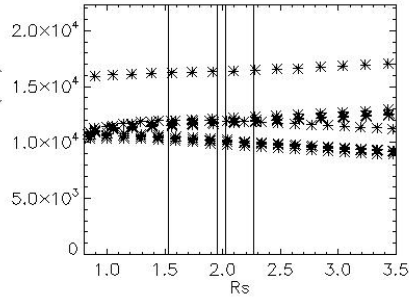
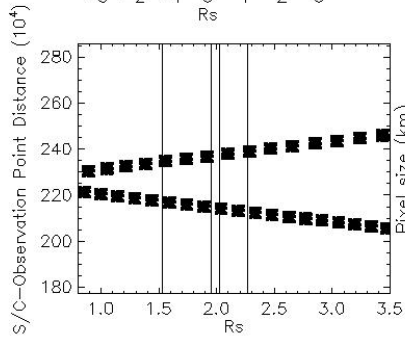


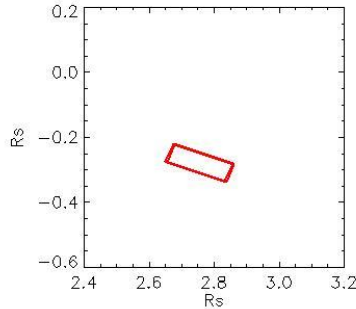
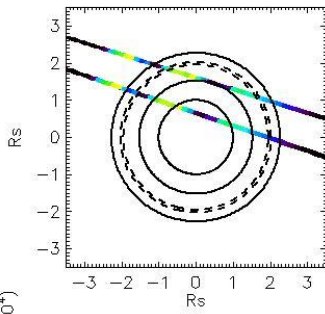
Observation Name:
UMS_053RLAPOMOSAIC001_VIMS

Observation Date:
2007_344_20_56_05

Observation Duration:
1800 S

Integration time = 300 S



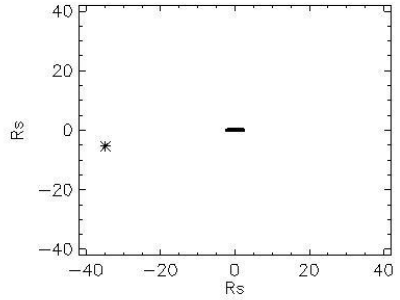
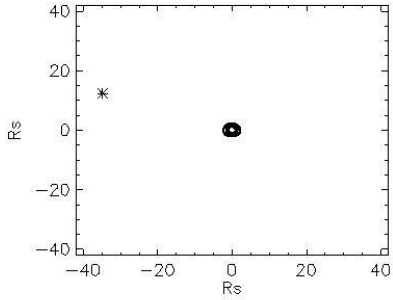
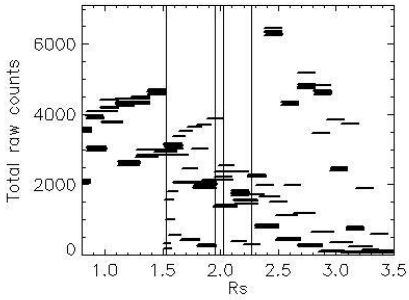
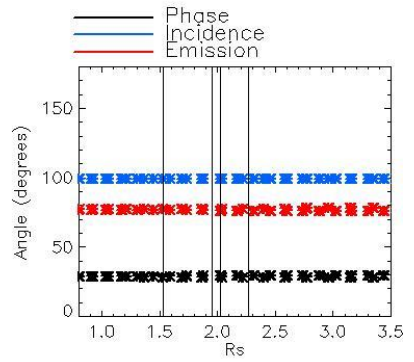
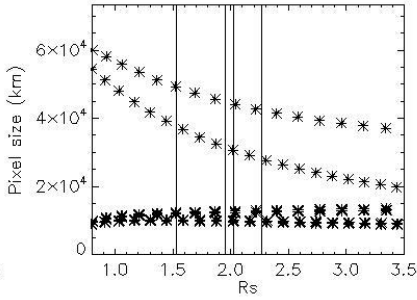
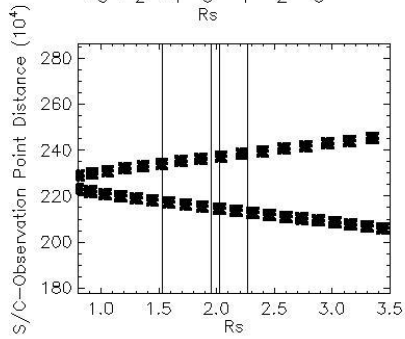


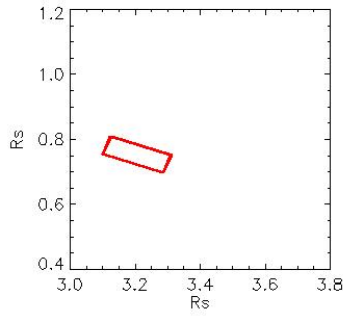
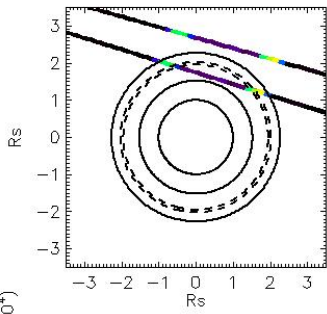
Observation Name:
UVIS_053RLAPOMOSAIC001_VIMS

Observation Date:
2007_344_21_27_11

Observation Duration:
1800 S

Integration time = 300 S



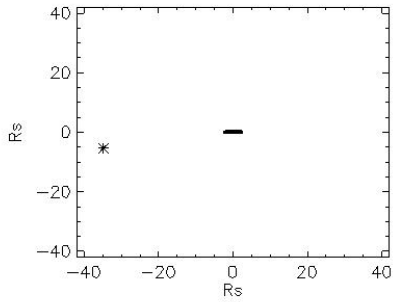
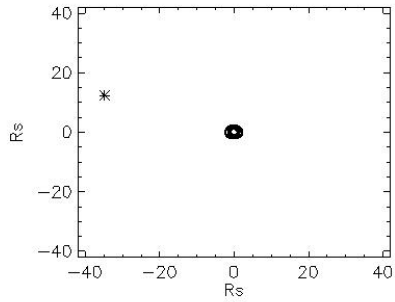
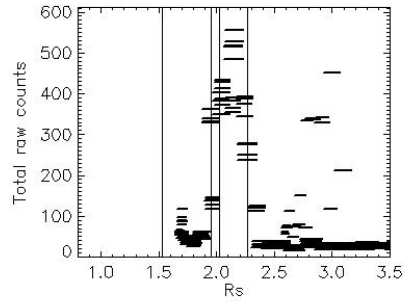
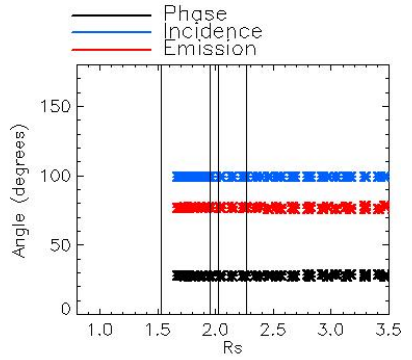
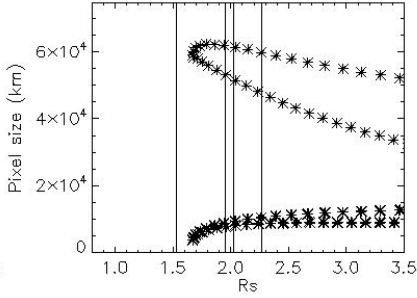
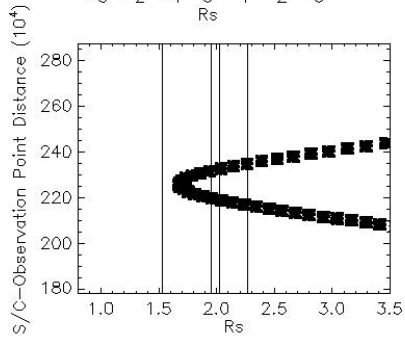


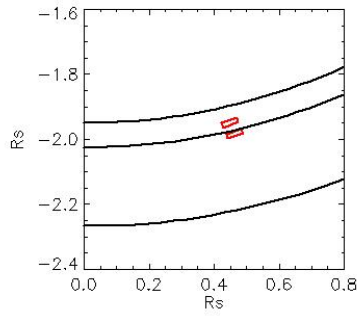
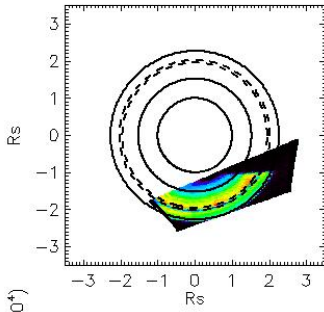
Observation Name:
UVIS_053RLAPOMOSAIC001_VIMS

Observation Date:
2007_344_21_58_17

Observation Duration:
1800 S

Integration time = 300 S



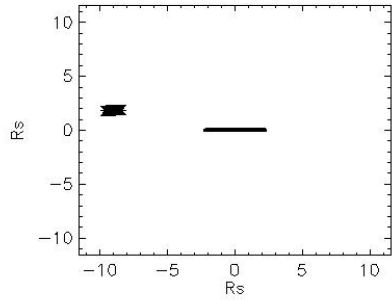
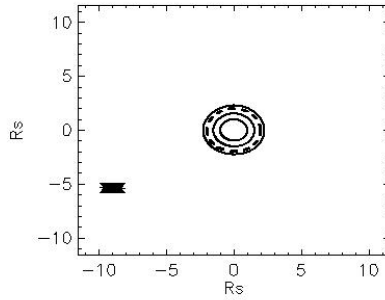
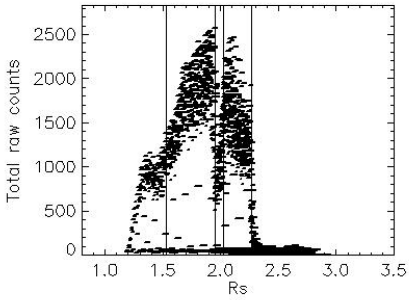
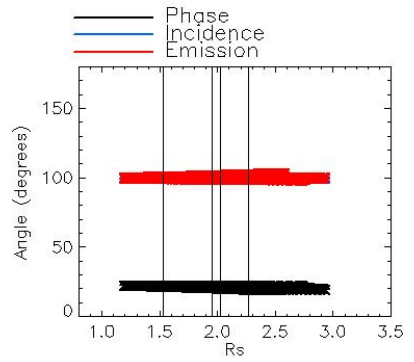
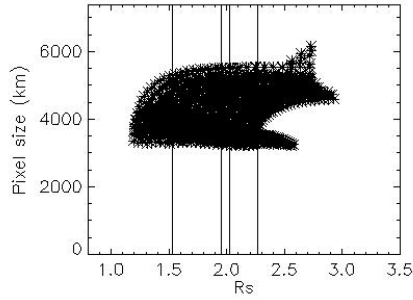
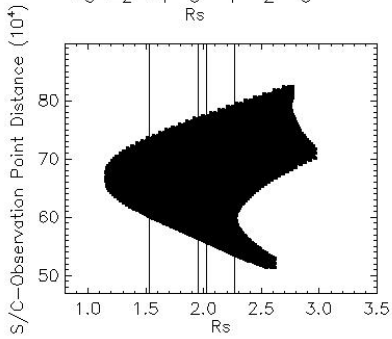


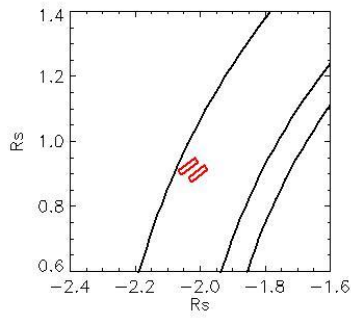
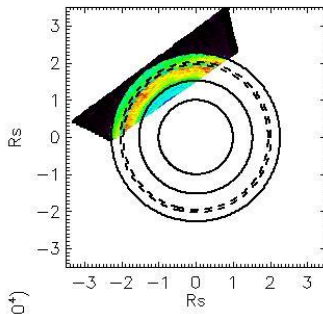
Observation Name:
UMS_054RLSUBML08LP001_CIRS

Observation Date:
2007_353_20_39_51

Observation Duration:
8400 S

Integration time = 300 S



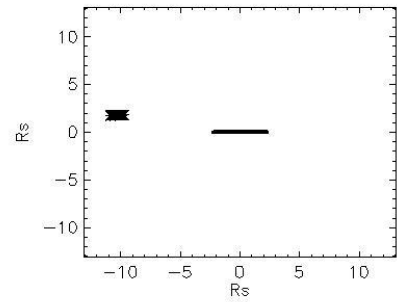
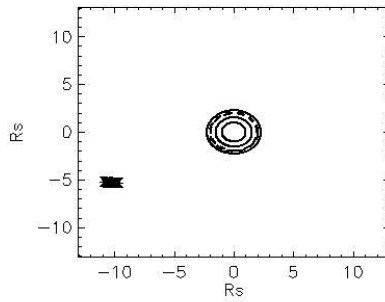
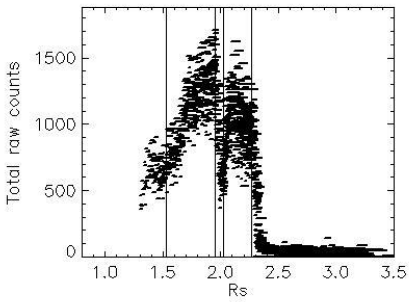
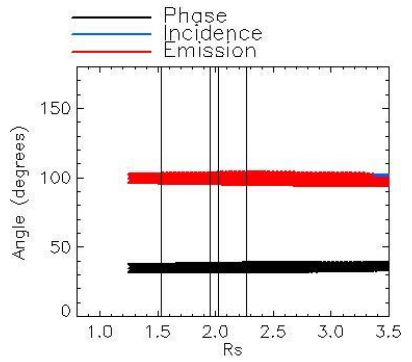
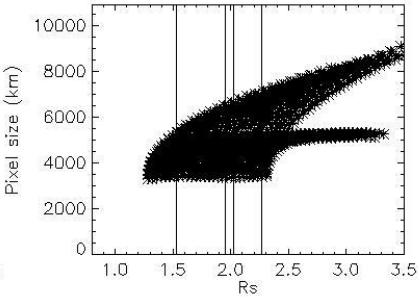
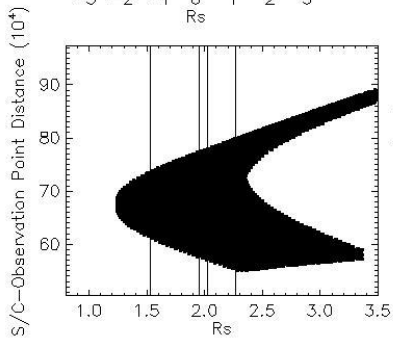


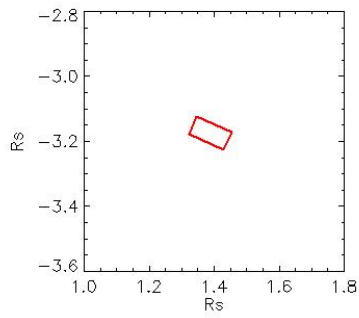
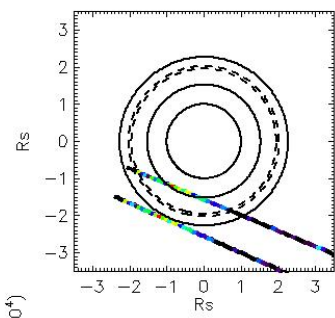
Observation Name:
UVS_054RLSUBML08LP001_CIRS

Observation Date:
2007_353_23_07_51

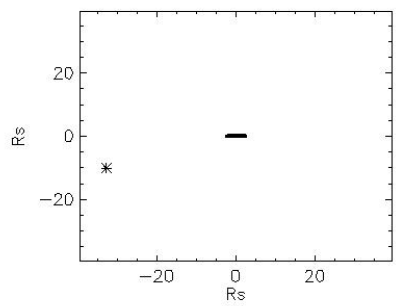
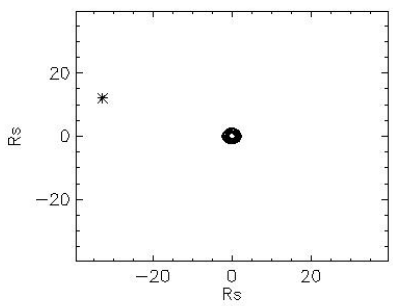
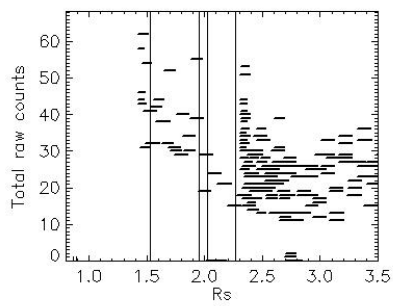
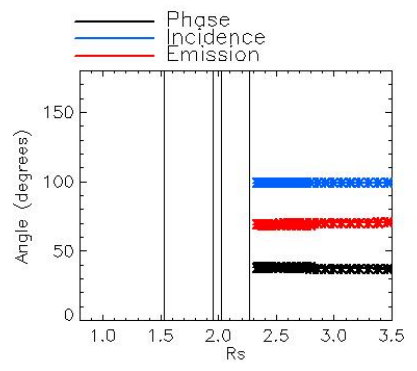
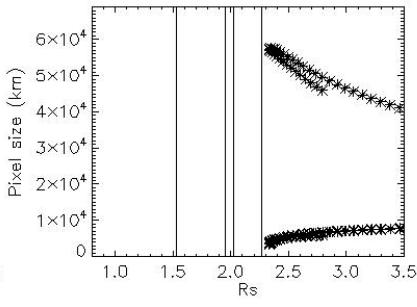
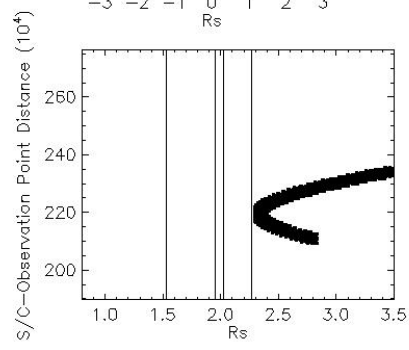
Observation Duration:
8400 S

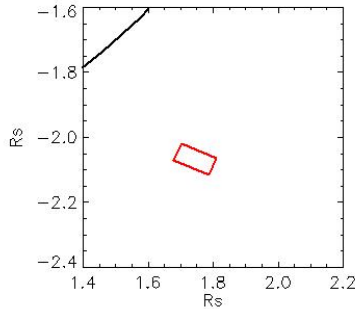
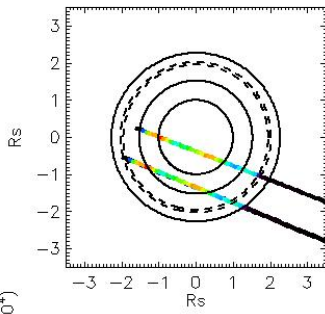
Integration time = 300 S





Observation Name:
 UVS_054RLAPOMOSAIC001_VIMS
 Observation Date:
 2007_360_16_21_52
 Observation Duration:
 1500 S
 Integration time = 300 S



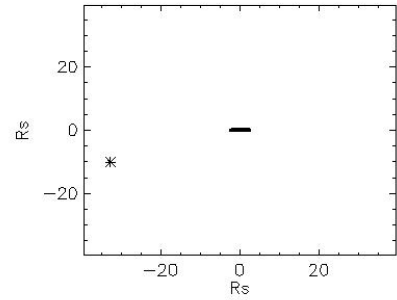
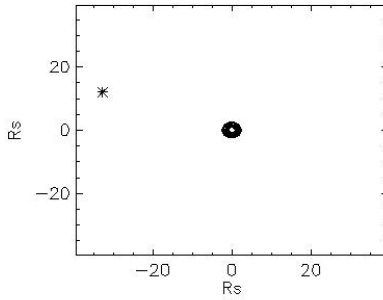
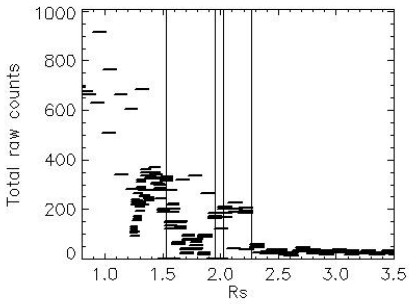
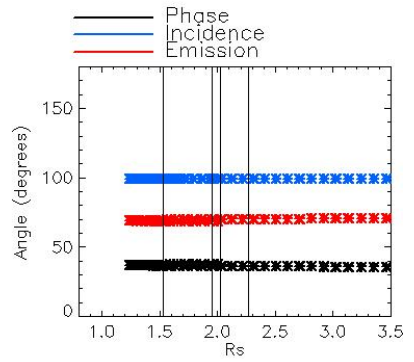
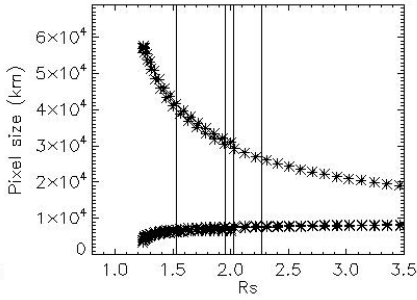
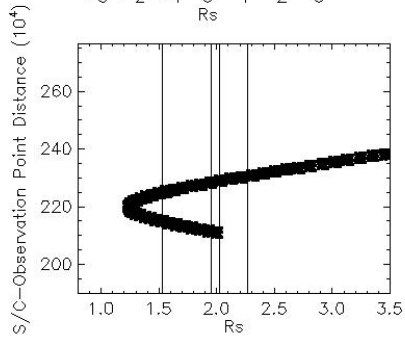


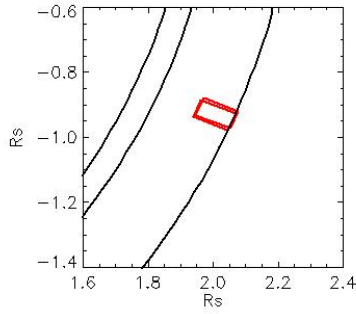
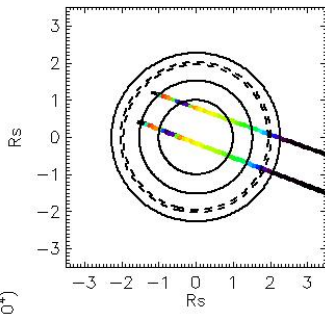
Observation Name:
UVIS_054RLAPOMOSAIC001_VIMS

Observation Date:
2007_360_16_47_14

Observation Duration:
1500 S

Integration time = 300 S



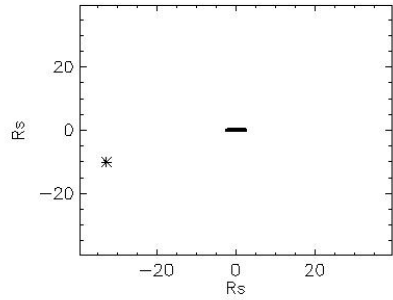
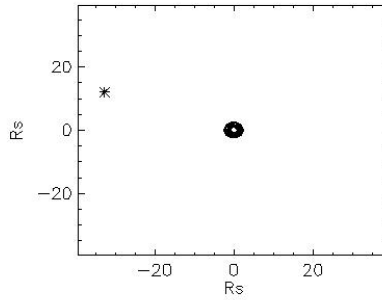
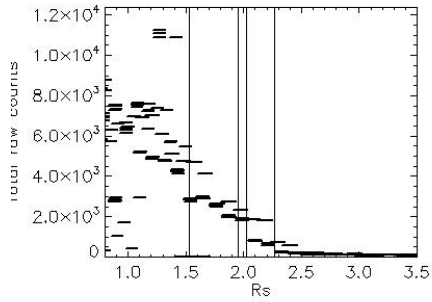
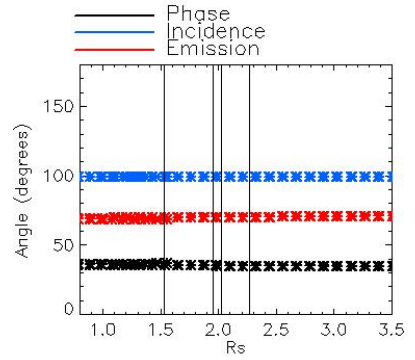
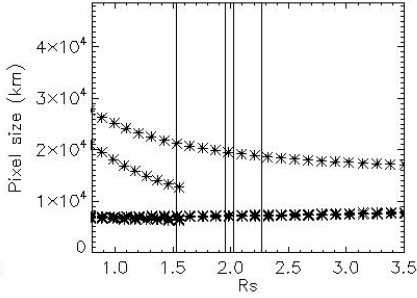
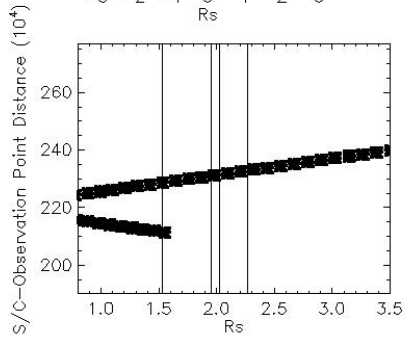


Observation Name:
UVIS_054RLAPOMOSAIC001_VIMS

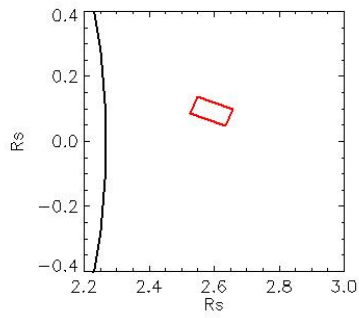
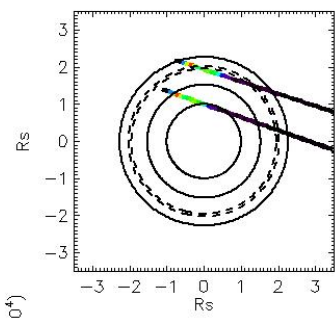
Observation Date:
2007_360_17_12_36

Observation Duration:
1500 S

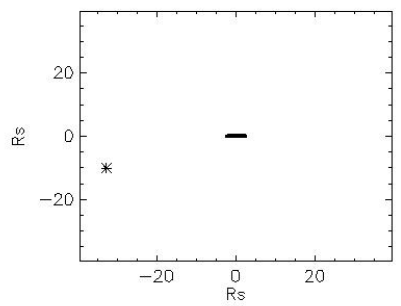
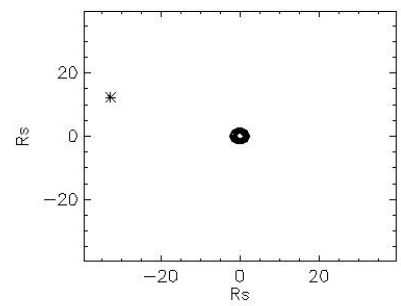
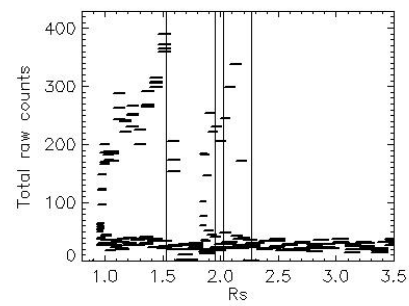
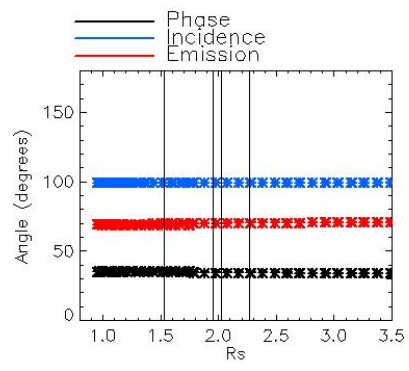
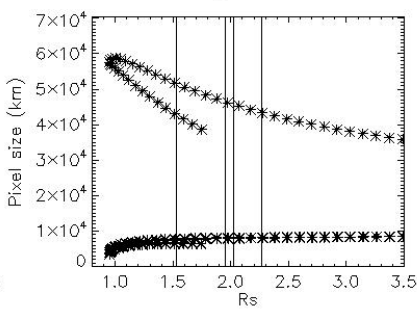
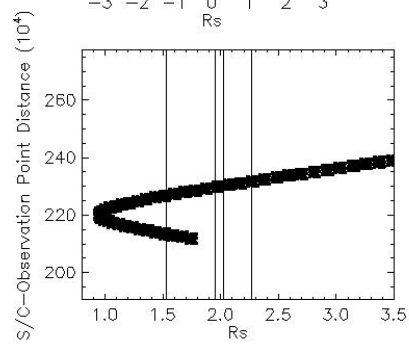
Integration time = 300 S

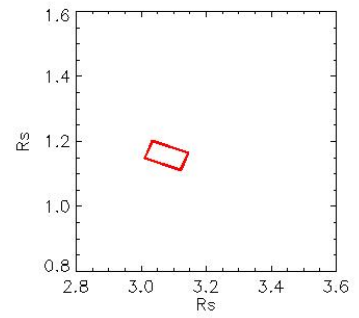
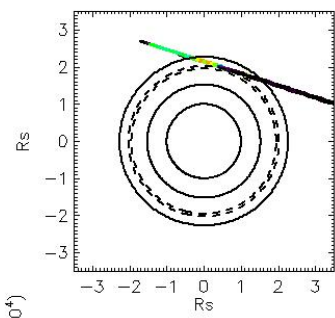


— Phase
— Incidence
— Emission

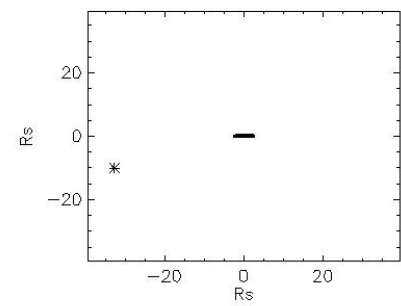
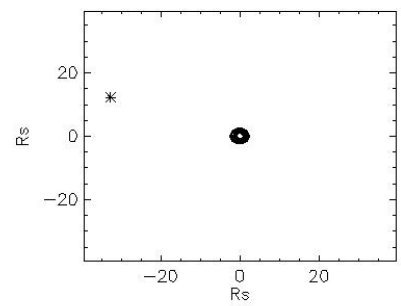
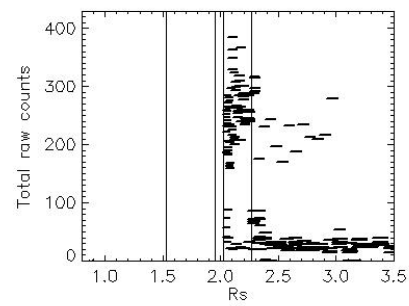
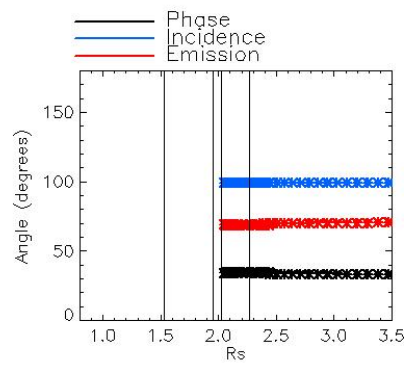
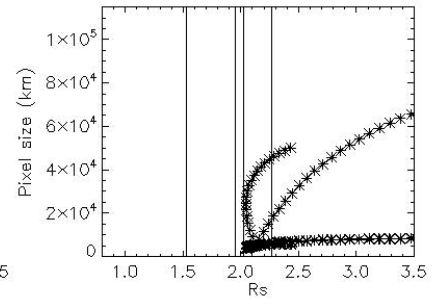
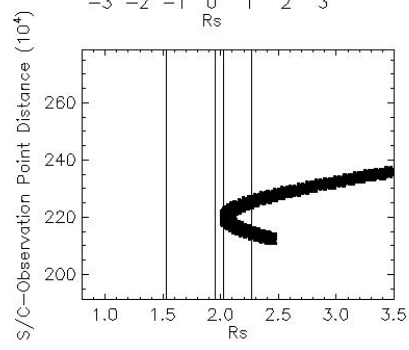


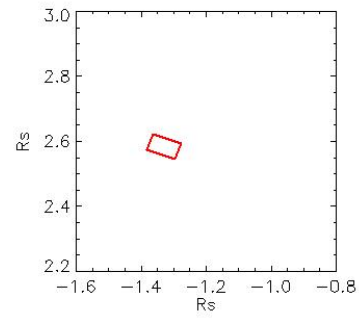
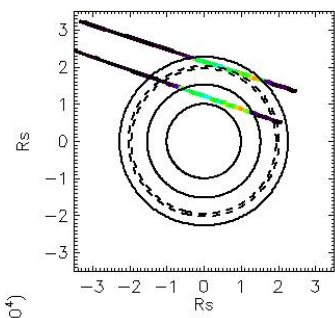
Observation Name:
UVIS_054RLAPOMOSAIC001_VIMS
Observation Date:
2007_360_17_37_58
Observation Duration:
1500 S
Integration time = 300 S



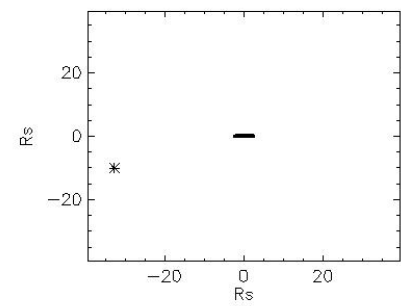
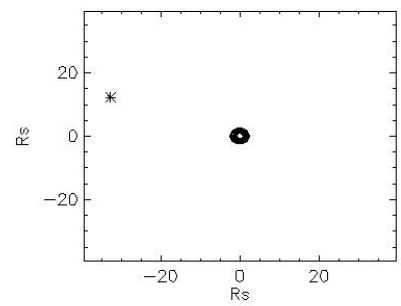
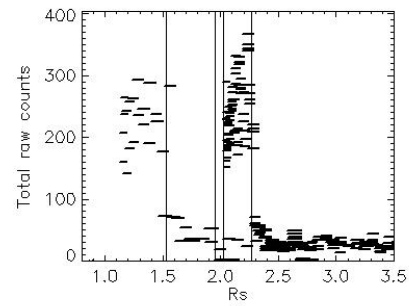
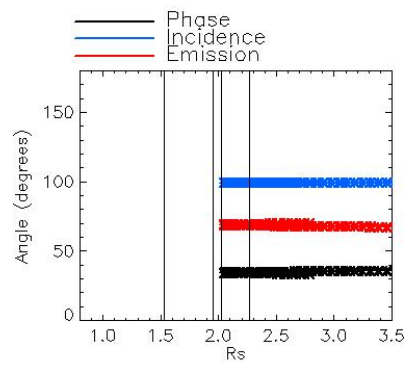
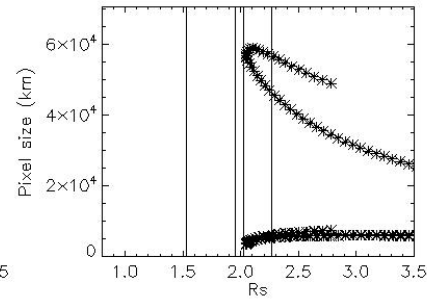
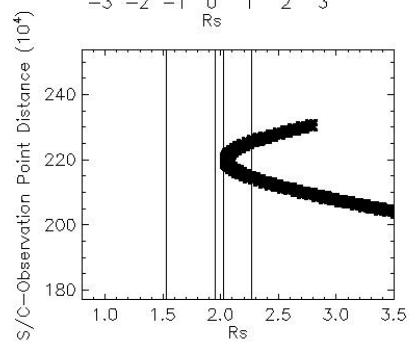


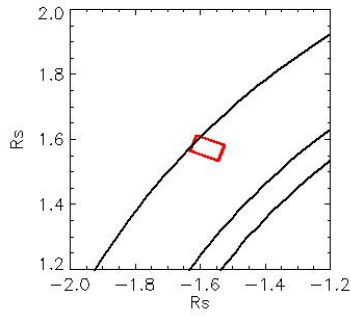
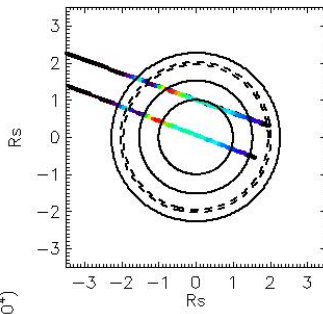
Observation Name:
 UVS_054RLAPOMOSAIC001_VIMS
 Observation Date:
 2007_360_18_03_20
 Observation Duration:
 1500 S
 Integration time = 300 S





Observation Name:
 UVS_054RLAPOMOSAIC001_VIMS
 Observation Date:
 2007_360_18_29_31
 Observation Duration:
 1500 S
 Integration time = 300 S



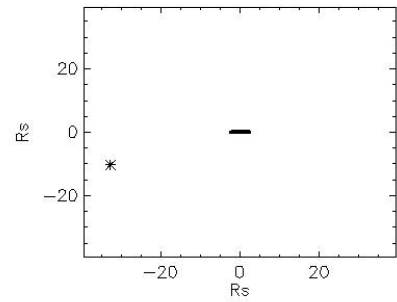
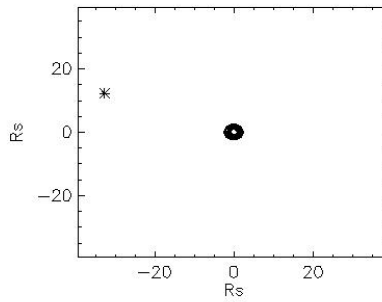
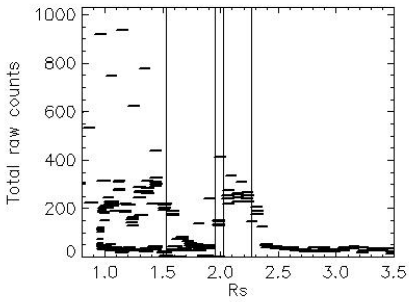
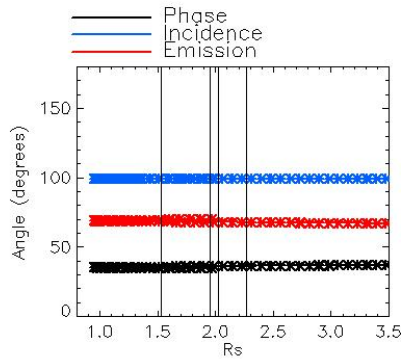
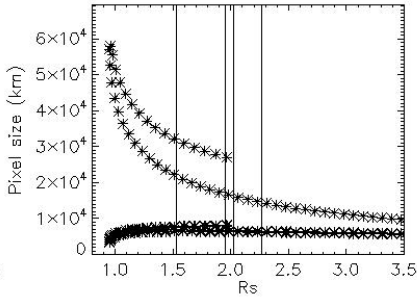
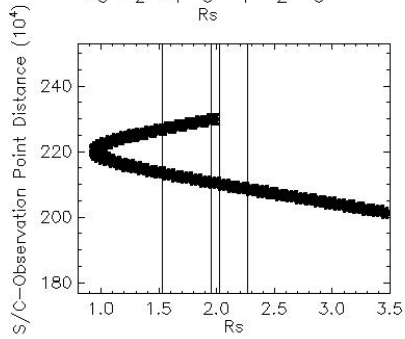


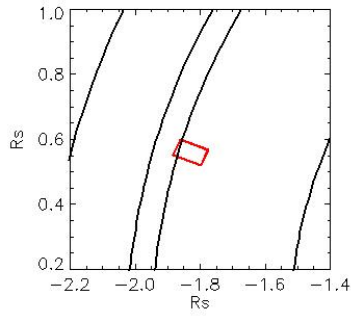
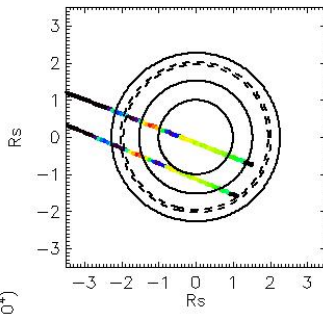
Observation Name:
UVIS_054RLAPOMOSAIC001_VIMS

Observation Date:
2007_360_18_54_53

Observation Duration:
1500 S

Integration time = 300 S



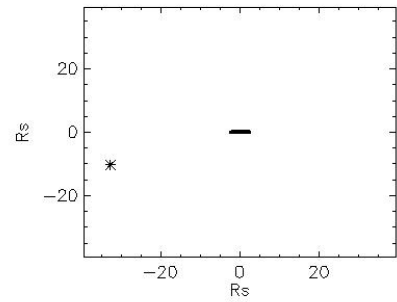
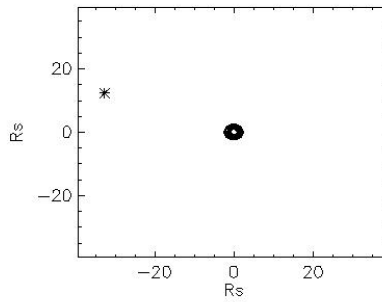
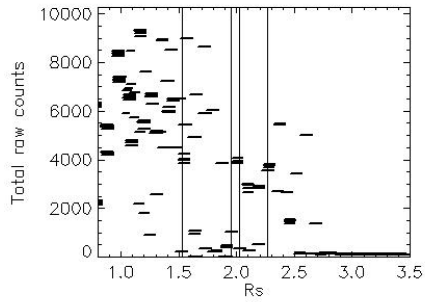
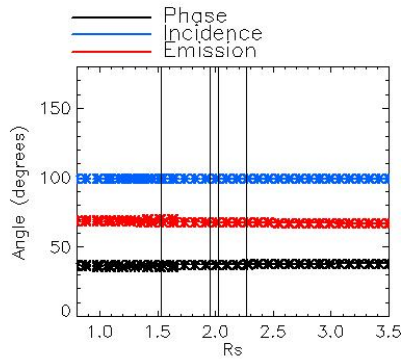
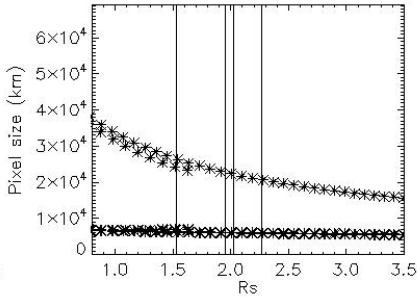
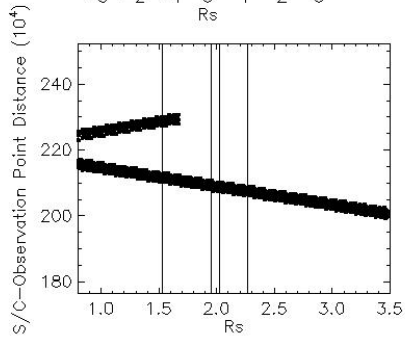


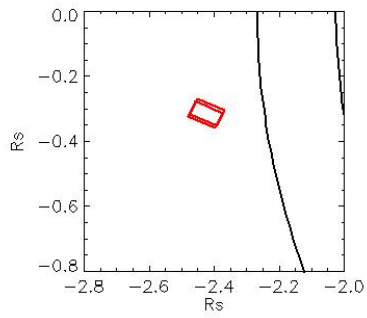
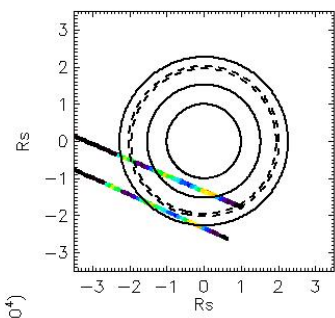
Observation Name:
UVIS_054RLAPOMOSAIC001_VIMS

Observation Date:
2007_360_19_20_15

Observation Duration:
1500 S

Integration time = 300 S



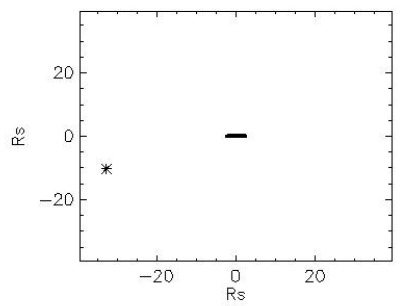
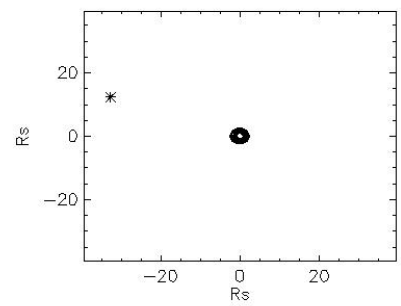
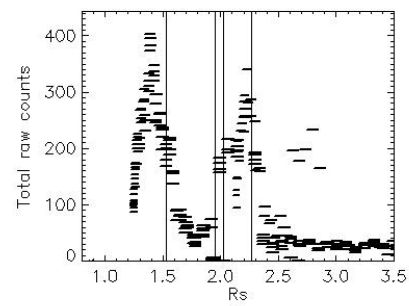
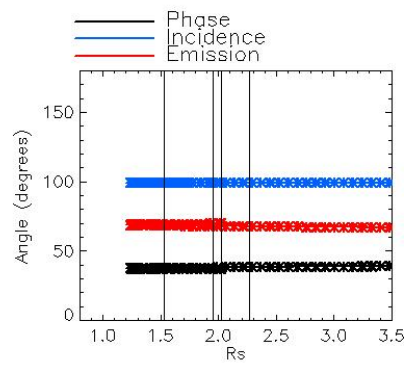
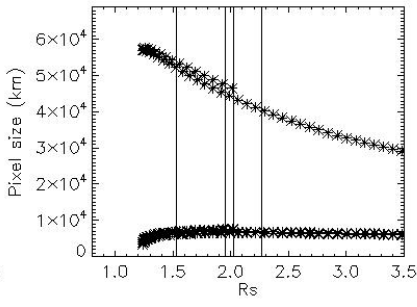
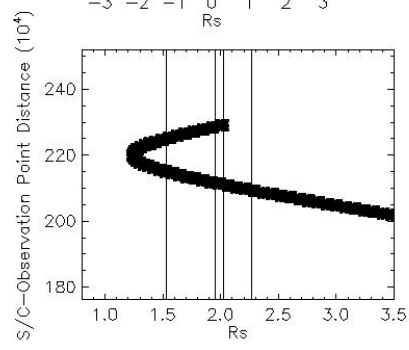


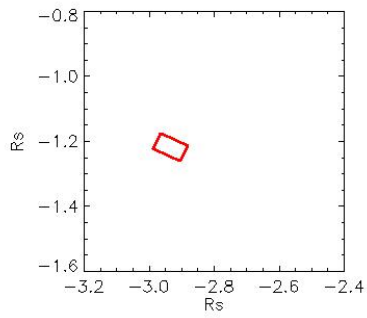
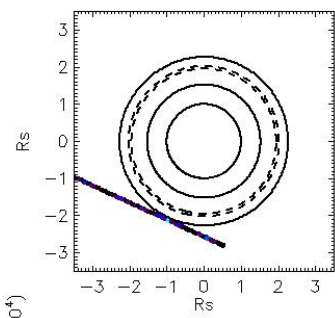
Observation Name:
UVIS_054RLAPOMOSAIC001_VIMS

Observation Date:
2007_360_19_45_37

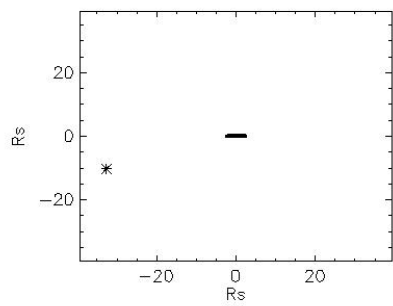
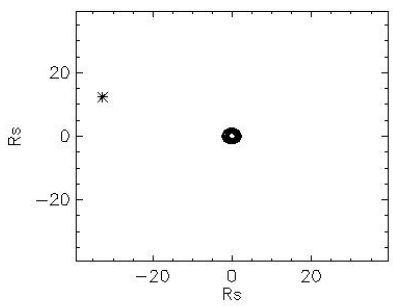
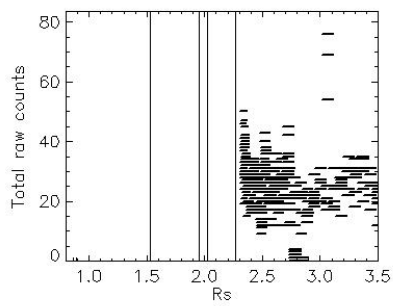
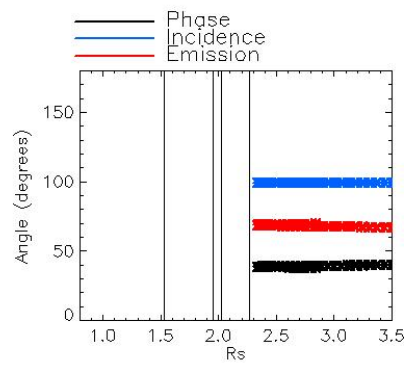
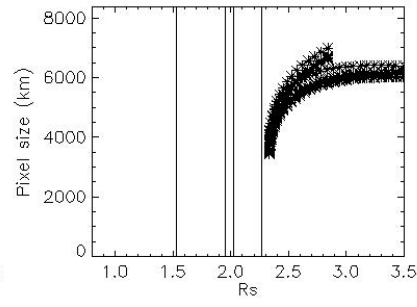
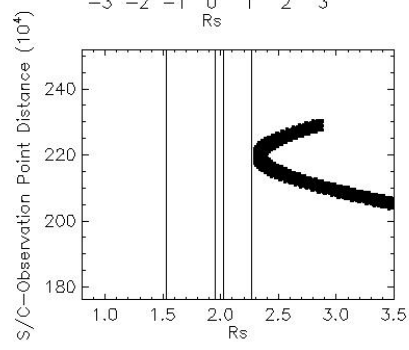
Observation Duration:
1500 S

Integration time = 300 S

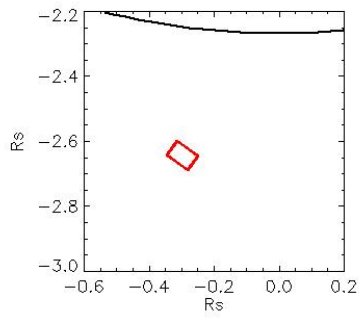
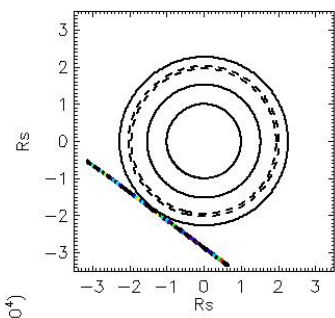




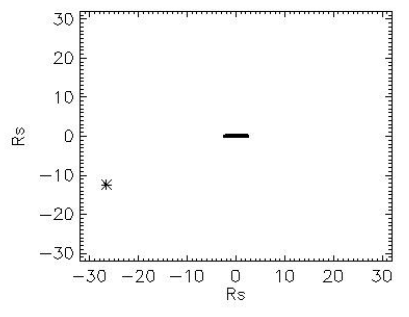
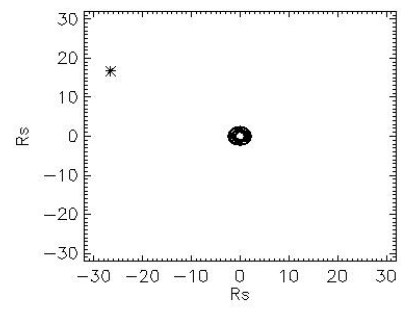
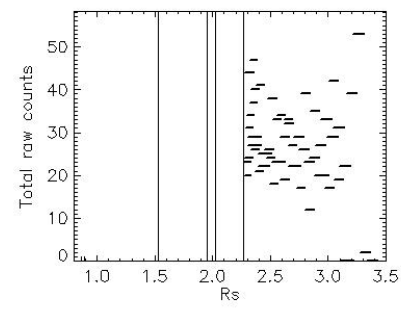
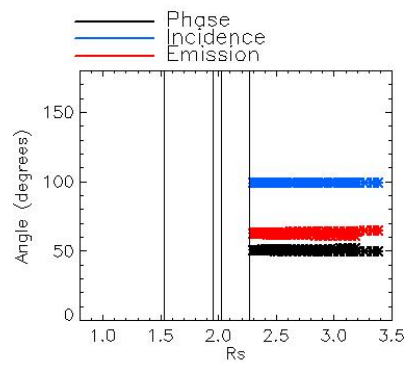
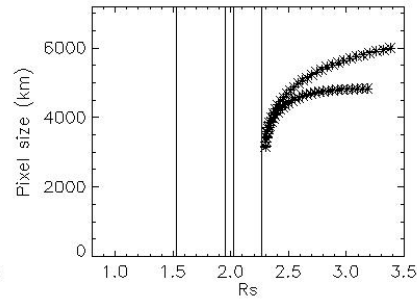
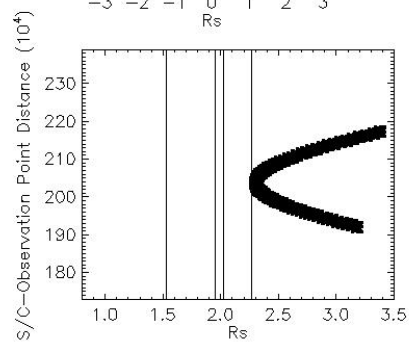
Observation Name:
 UVS_054RLAPOMOSAIC001_VIMS
 Observation Date:
 2007_360_20_10_59
 Observation Duration:
 2400 S
 Integration time = 300 S

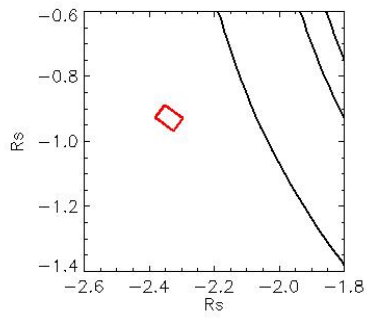
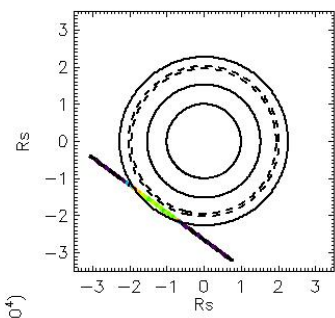


— Phase
 — Incidence
 — Emission

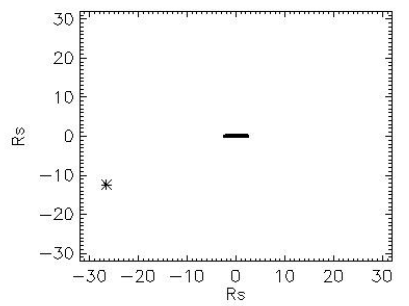
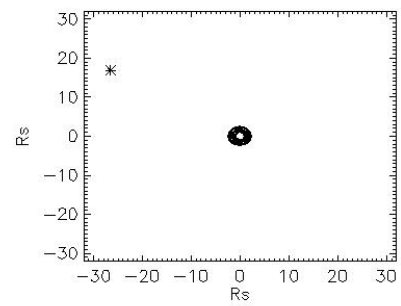
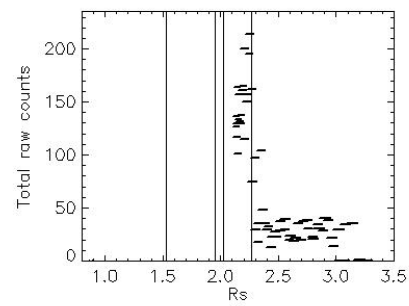
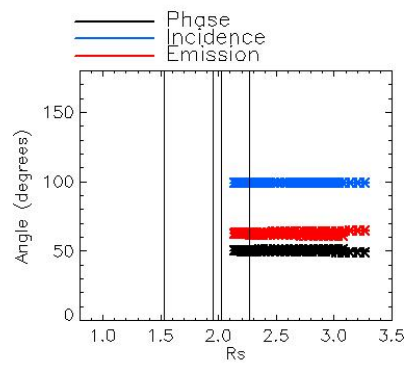
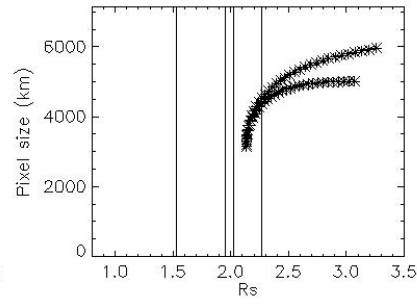
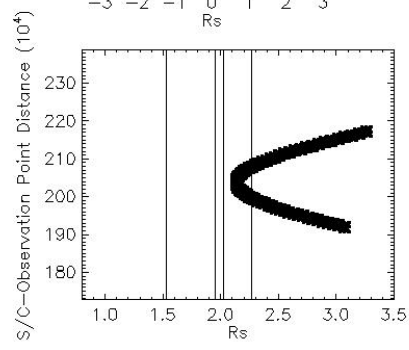


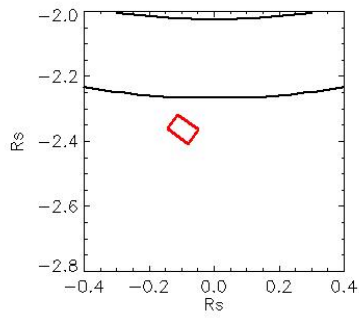
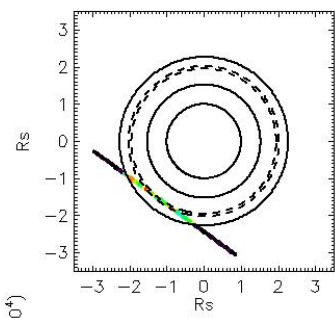
Observation Name:
 UMS_055RLRDCOLSCND001_JSS
 Observation Date:
 2007_363_15_39_52
 Observation Duration:
 300 S
 Integration time = 300 S





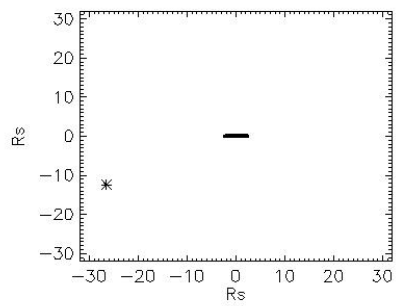
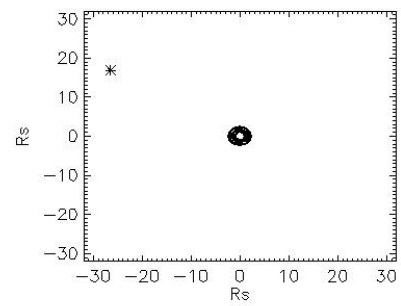
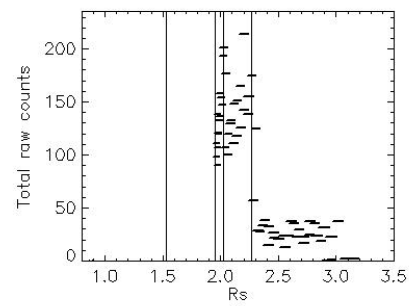
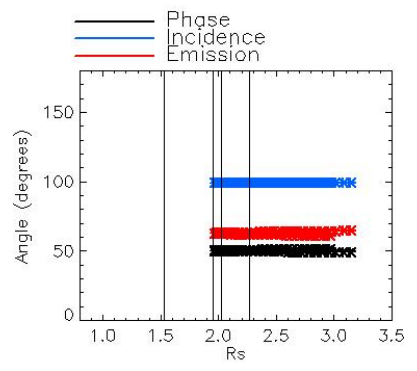
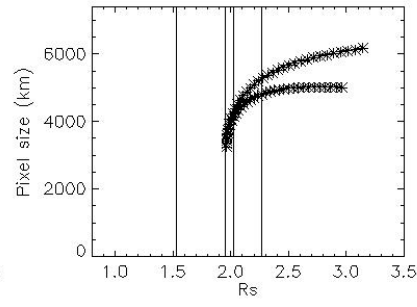
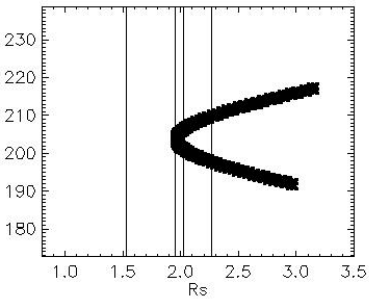
Observation Name:
UMS_055RLRDCOLSCND001_JSS
Observation Date:
2007_363_15_49_14
Observation Duration:
300 S
Integration time = 300 S

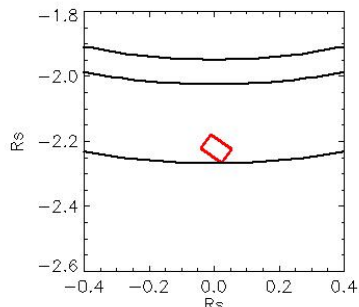
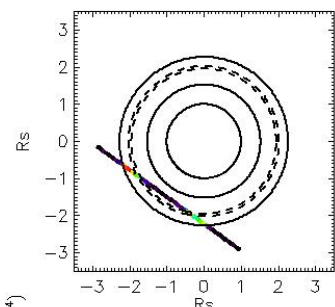




Observation Name:
 UMS_055RLRDCOLSCND001_JSS
 Observation Date:
 2007_363_15_58_36
 Observation Duration:
 300 S
 Integration time = 300 S

S/C—Observation Point Distance (10^4)



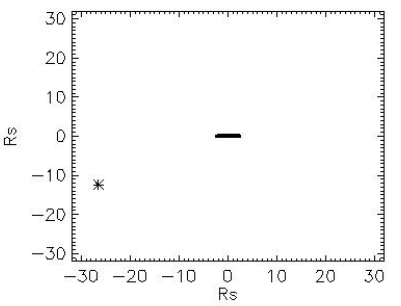
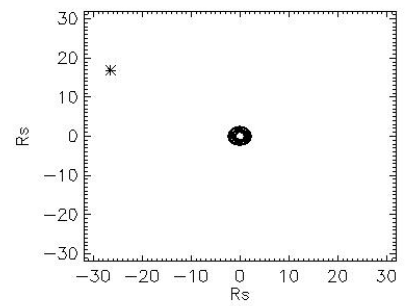
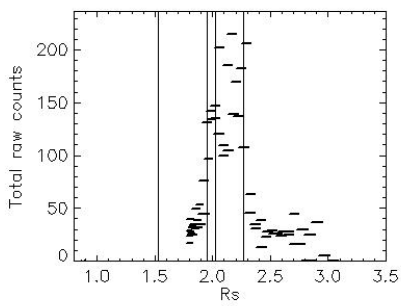
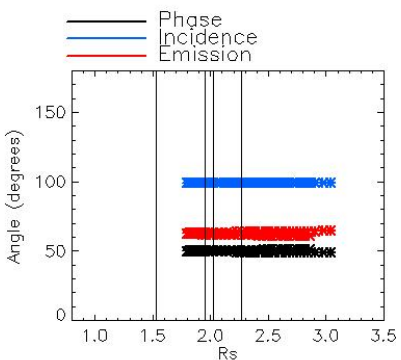
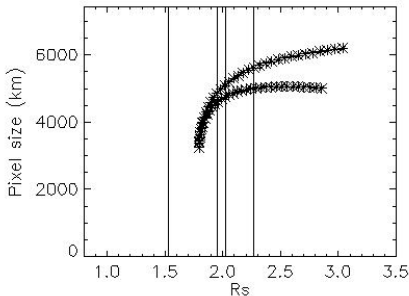
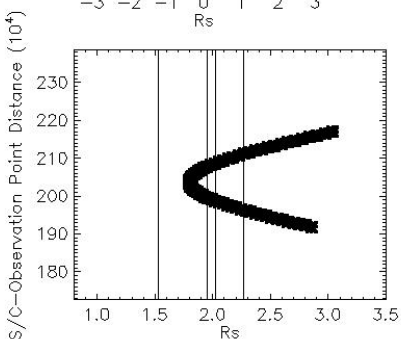


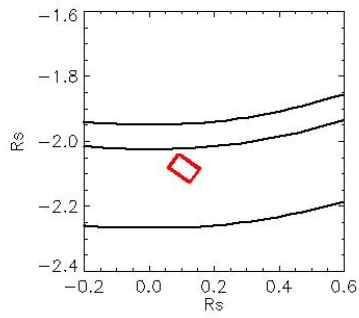
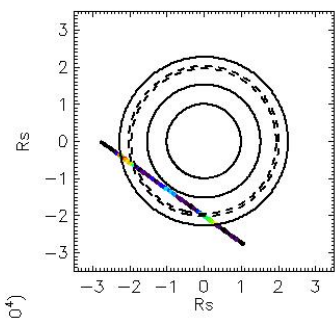
Observation Name:
UMS_055RLRDC0LSCND001_JSS

Observation Date:
2007_363_16_07_58

Observation Duration:
300 S

Integration time = 300 S



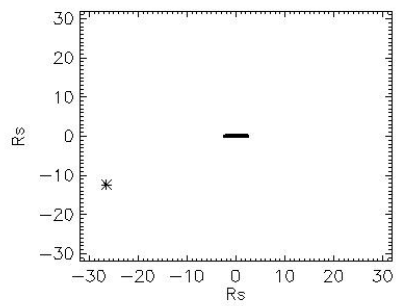
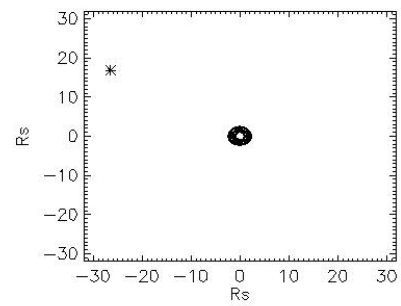
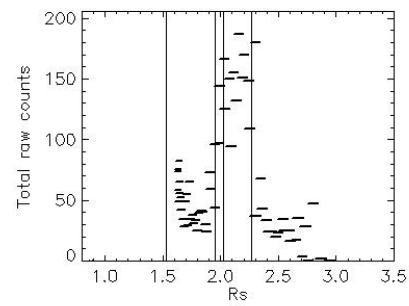
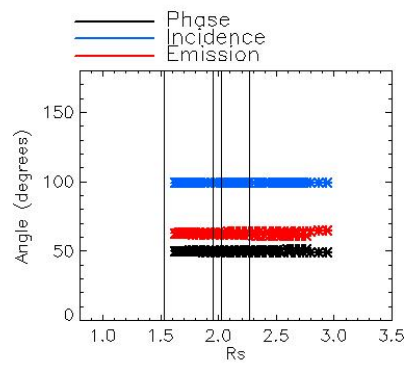
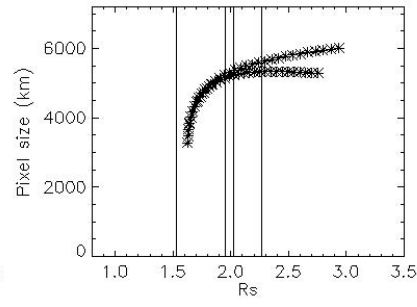
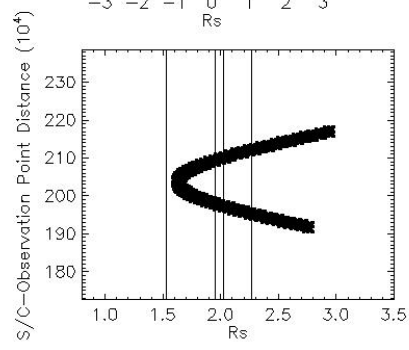


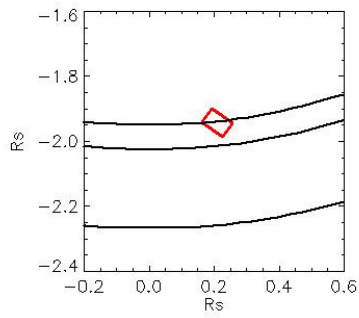
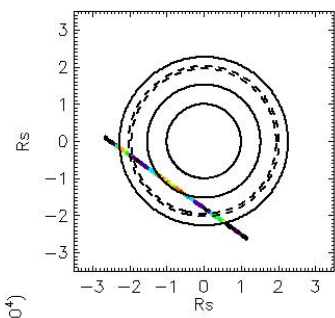
Observation Name:
UMS_055RLRDCOLSCND001_JSS

Observation Date:
2007_363_16_17_20

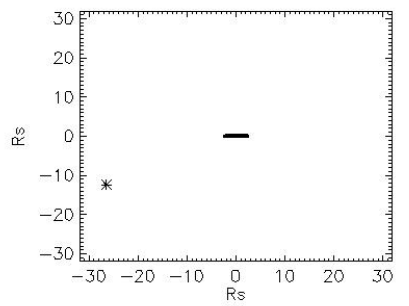
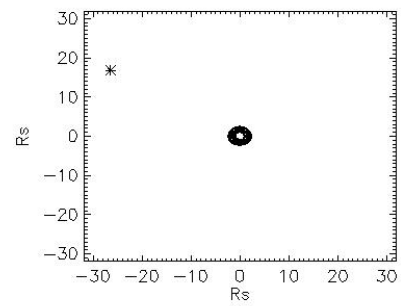
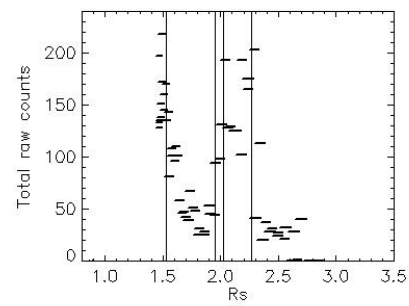
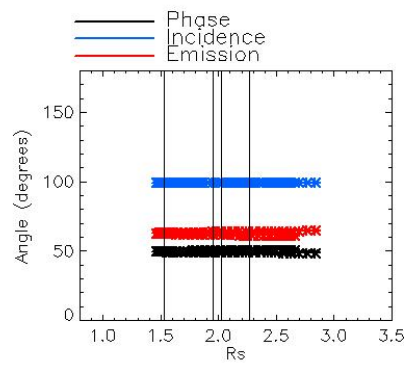
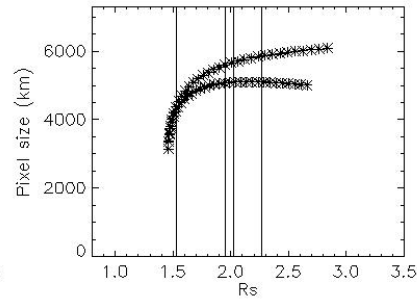
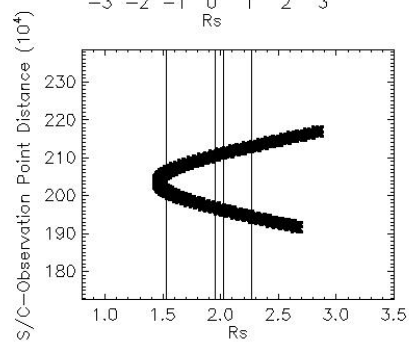
Observation Duration:
300 S

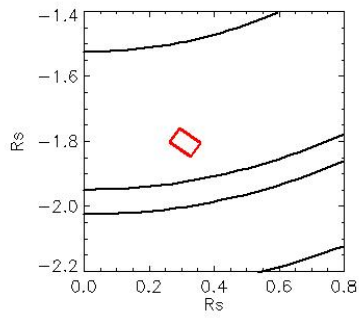
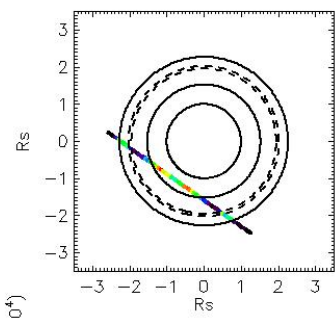
Integration time = 300 S



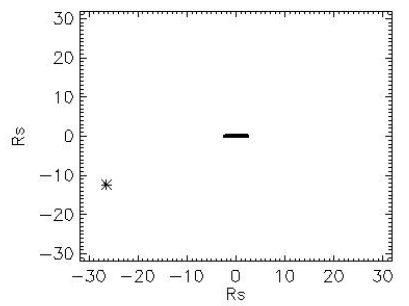
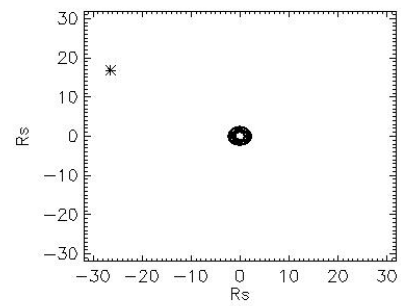
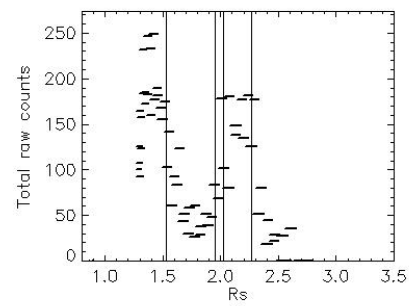
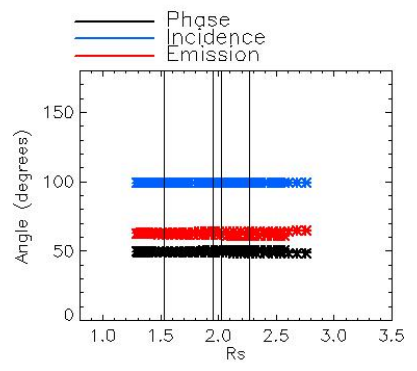
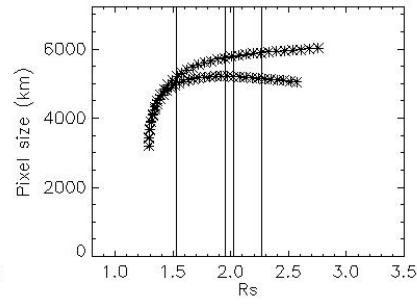
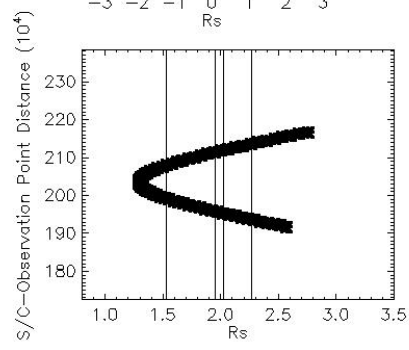


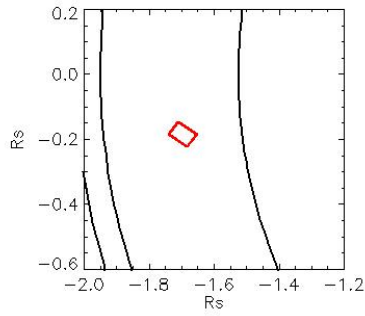
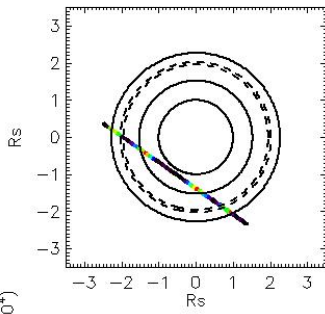
Observation Name:
 UMS_055RLRDCOLSCND001_JSS
 Observation Date:
 2007_363_16_26_42
 Observation Duration:
 300 S
 Integration time = 300 S





Observation Name:
 UVS_055RLRDC0LSCND001_JSS
 Observation Date:
 2007_363_16_36_04
 Observation Duration:
 300 S
 Integration time = 300 S





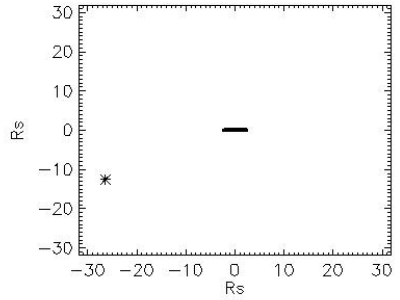
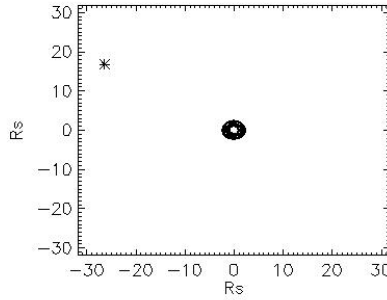
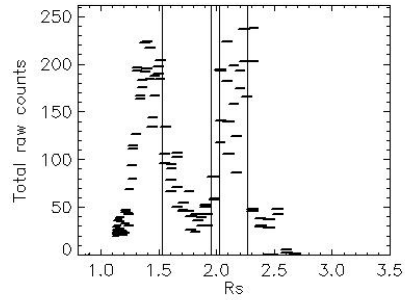
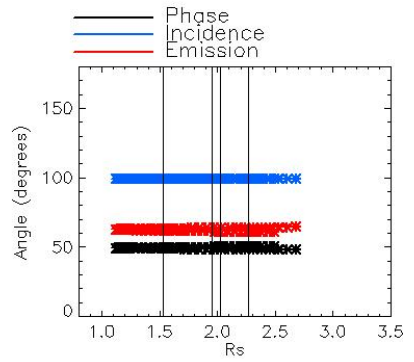
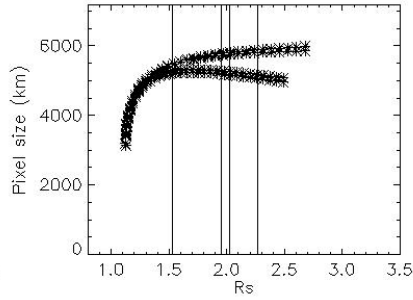
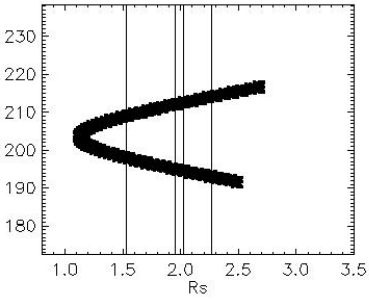
Observation Name:
UMS_055RLRDC0LSCND001_JSS

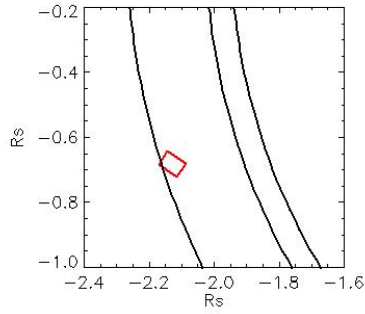
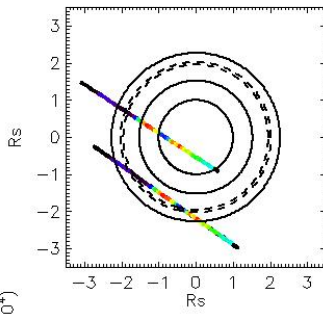
Observation Date:
2007_363_16_45_26

Observation Duration:
600 S

Integration time = 300 S

S/C—Observation Point Distance (10^4)



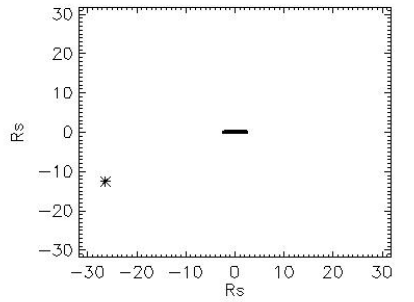
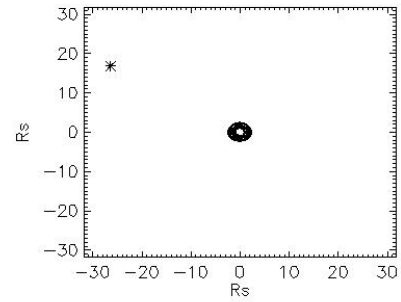
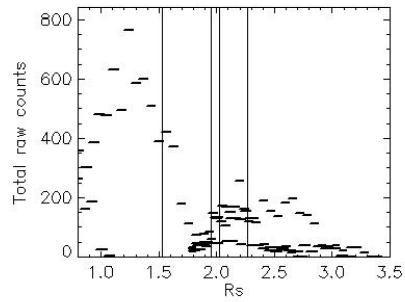
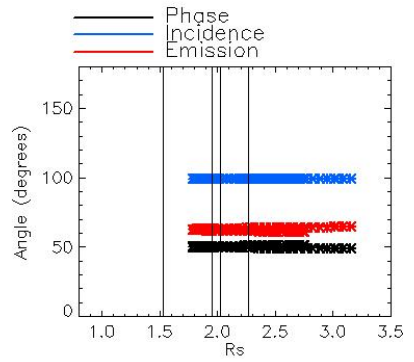
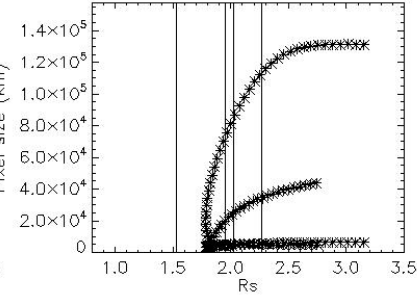
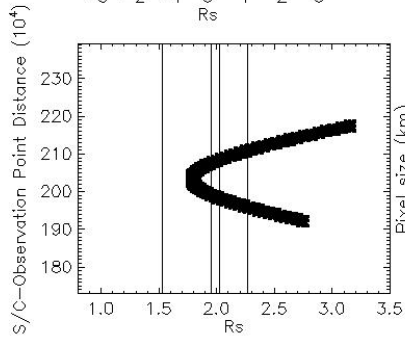


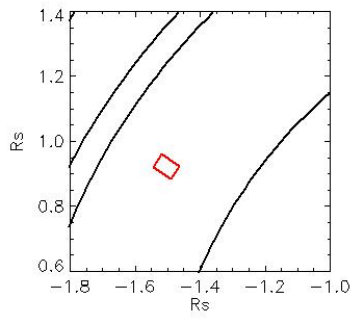
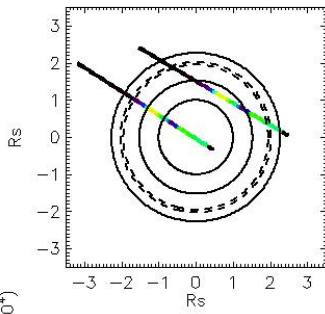
Observation Name:
UMS_055RLRDCOLSCND001_JSS

Observation Date:
2007_363_16_59_52

Observation Duration:
600 S

Integration time = 300 S



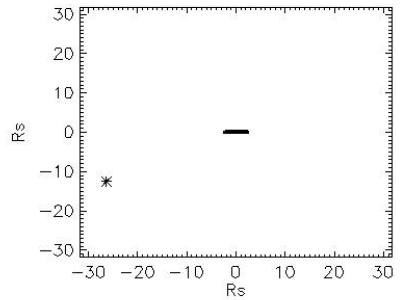
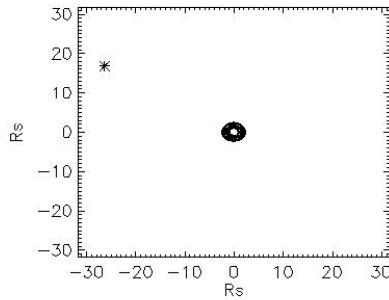
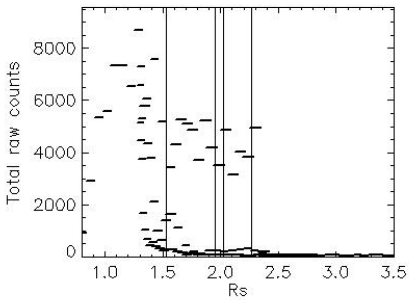
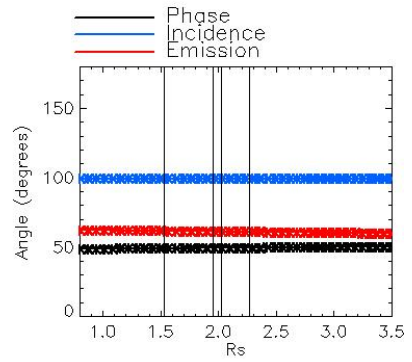
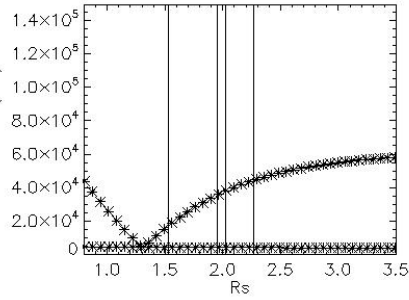
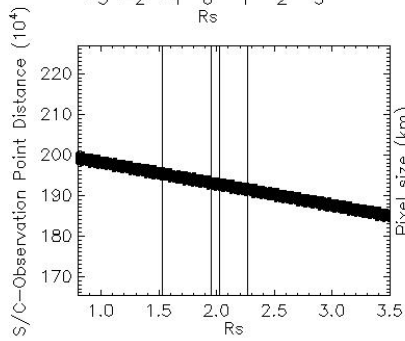


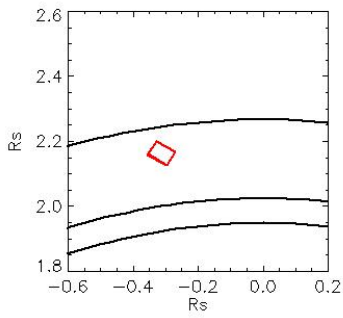
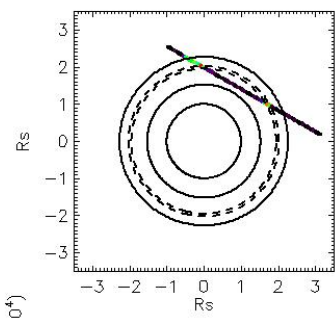
Observation Name:
UMS_055RLRDCOLSCND001_JSS

Observation Date:
2007_363_17_10_52

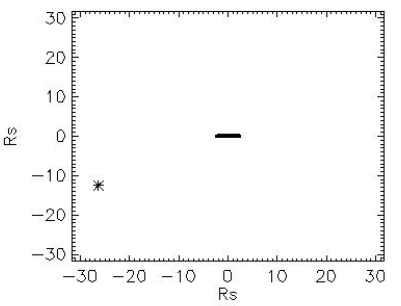
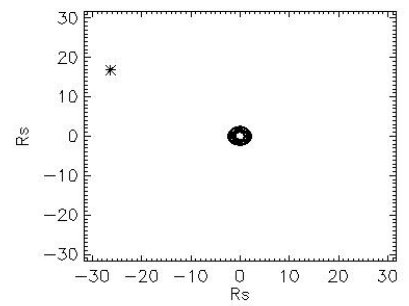
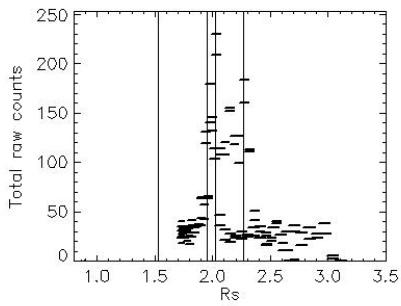
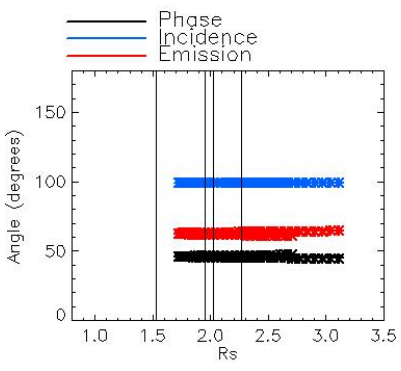
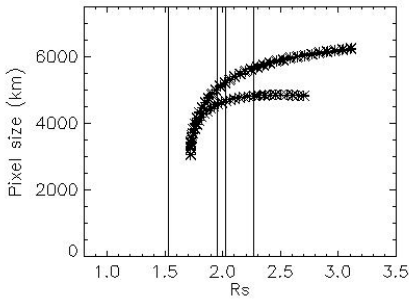
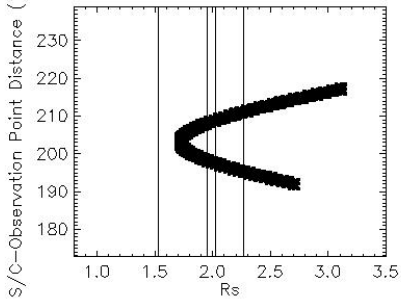
Observation Duration:
600 S

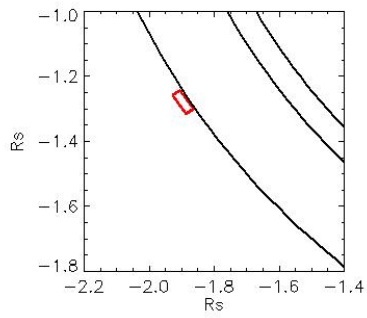
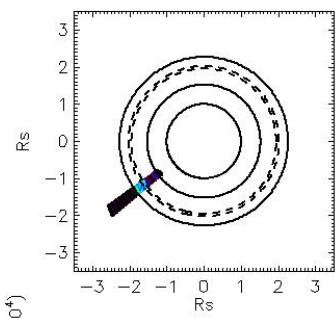
Integration time = 300 S





Observation Name:
 UMS_055RLRDCOLSCND001_JSS
 Observation Date:
 2007_363_17_21_52
 Observation Duration:
 600 S
 Integration time = 300 S



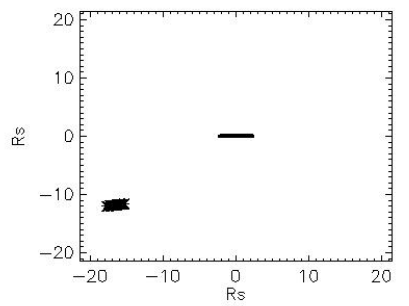
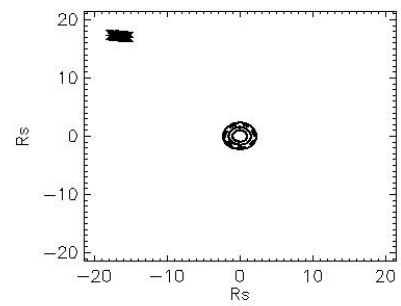
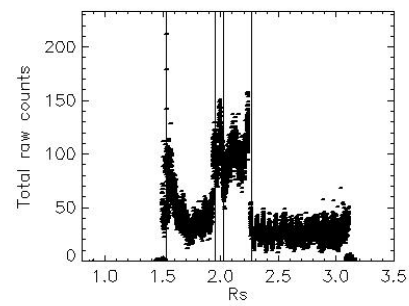
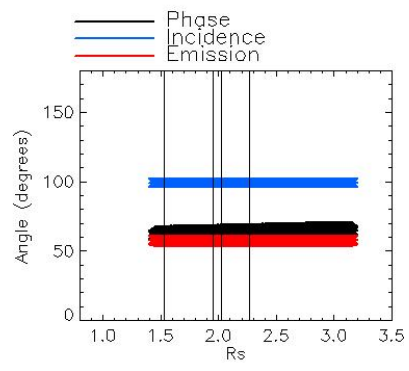
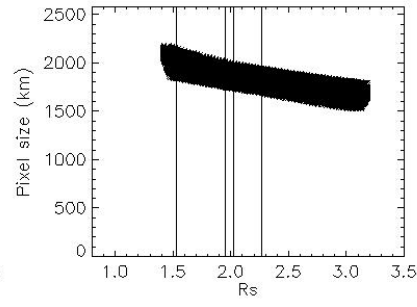
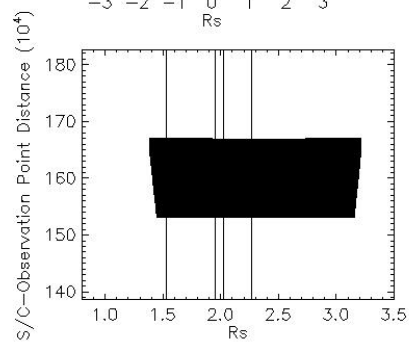


Observation Name:
UMS_055RF_FMOVIE001_VIMS

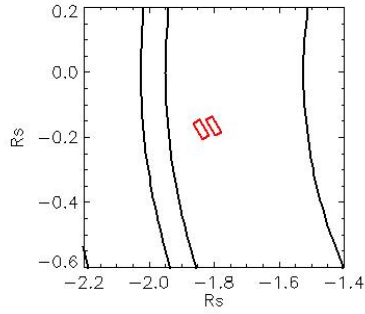
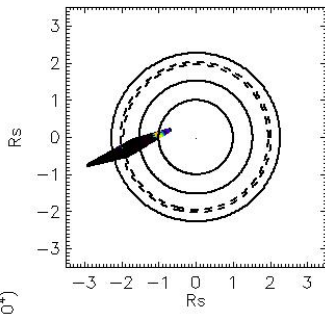
Observation Date:
2007_365_15_52_11

Observation Duration:
38400 S

Integration time = 300 S



— Phase
— Incidence
— Emission

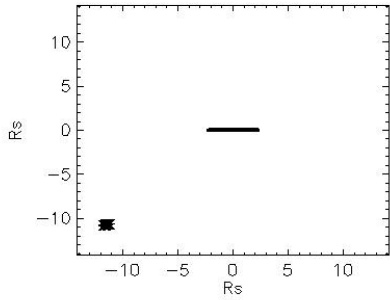
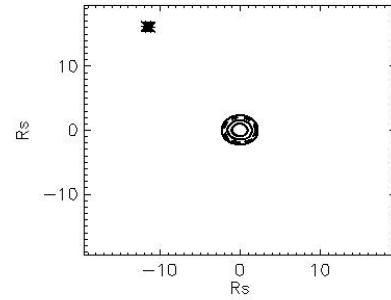
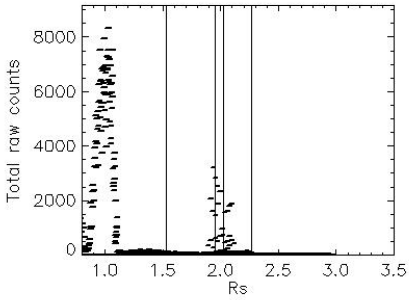
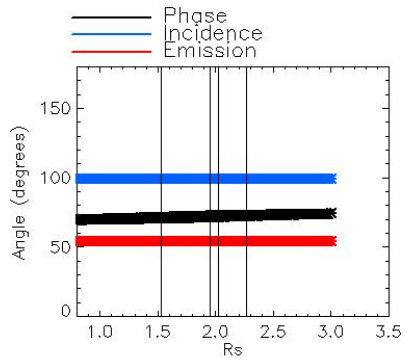
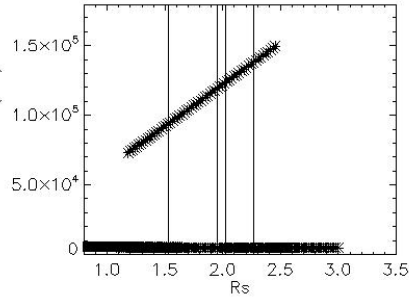
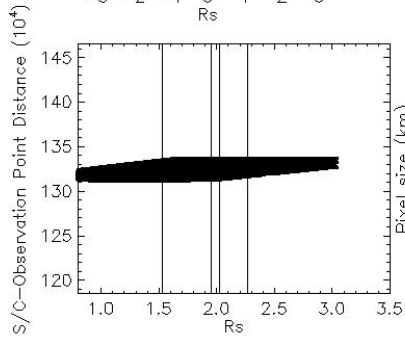


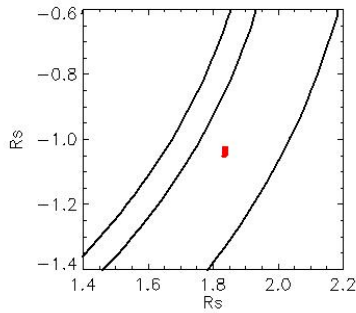
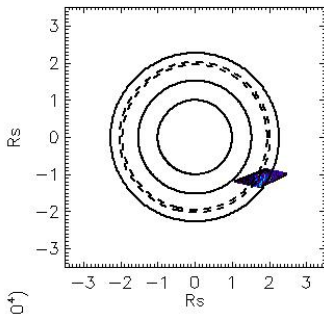
Observation Name:
UMS_055RLTEMPU33MP001_CIRS

Observation Date:
2008_001_15_55_51

Observation Duration:
7800 S

Integration time = 300 S



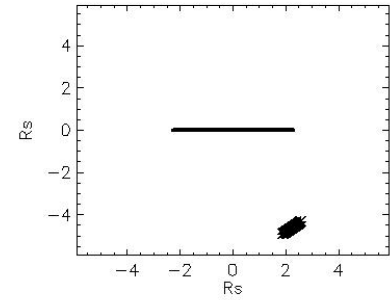
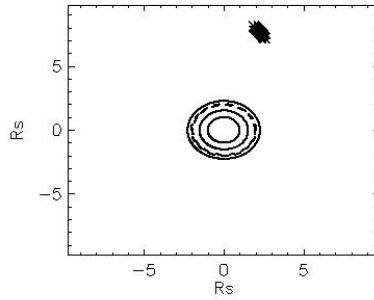
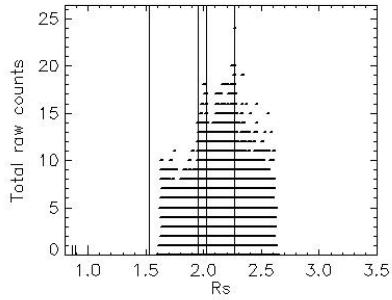
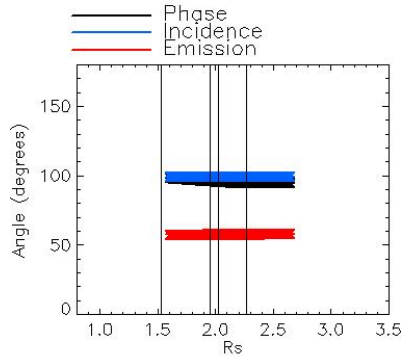
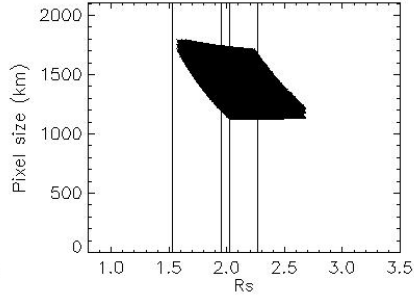
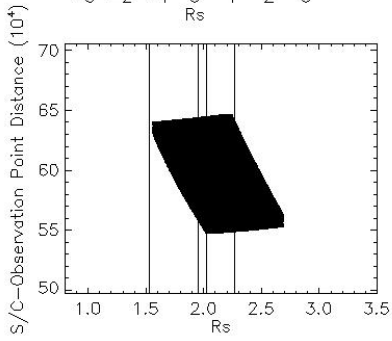


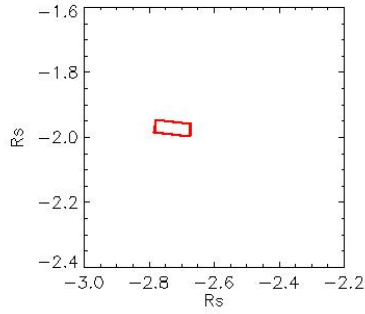
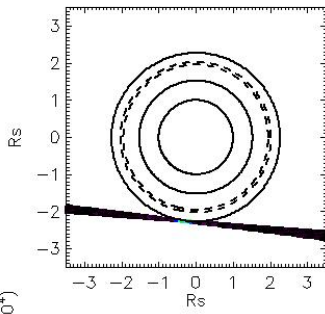
Observation Name:
UMS_055RLALPSC0001_VIMS

Observation Date:
2008_003_09_21_49

Observation Duration:
7830 S

Integration time = 30 S





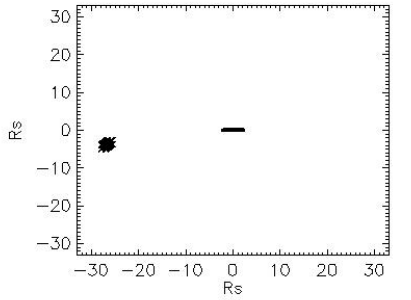
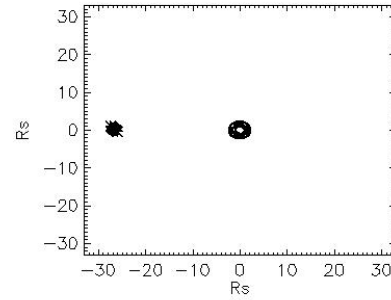
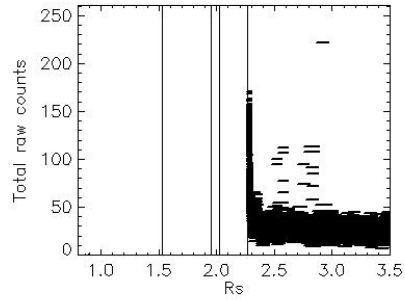
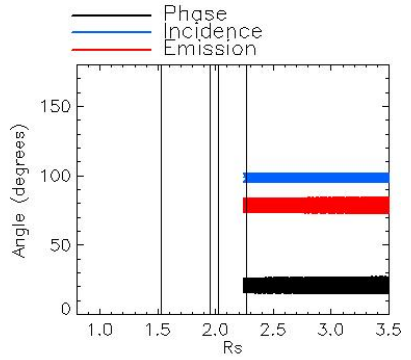
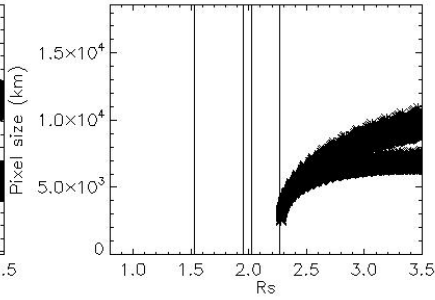
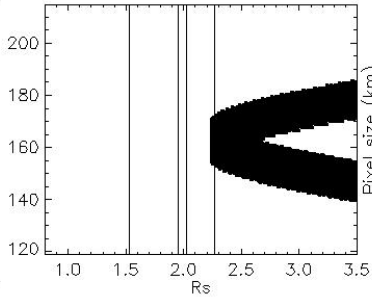
Observation Name:
UMS_055RLLPMRDFM0V001_JSS

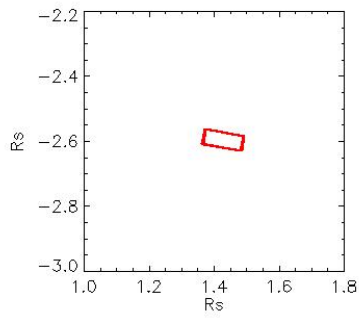
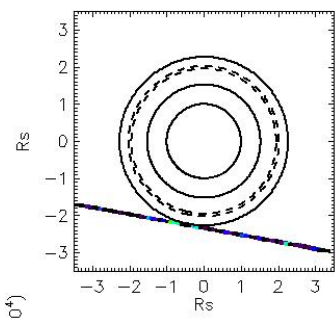
Observation Date:
2008_007_08_07_51

Observation Duration:
57000 S

Integration time = 300 S

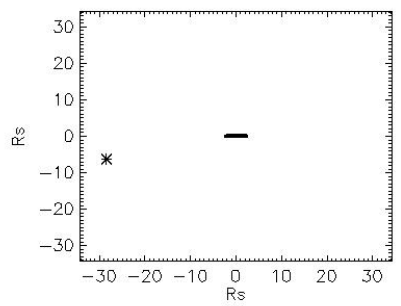
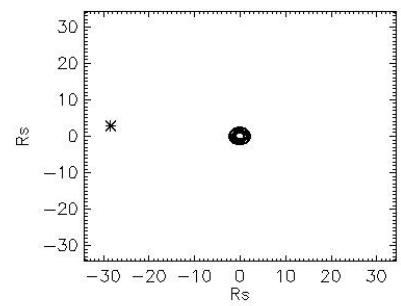
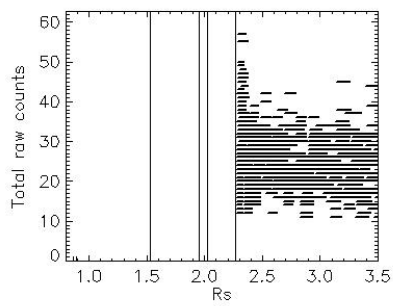
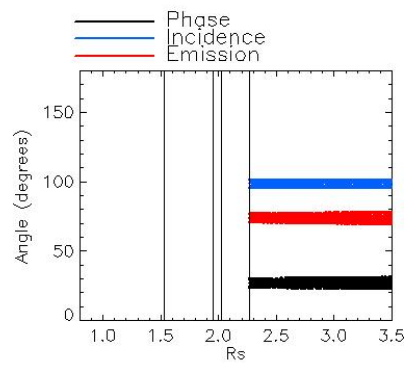
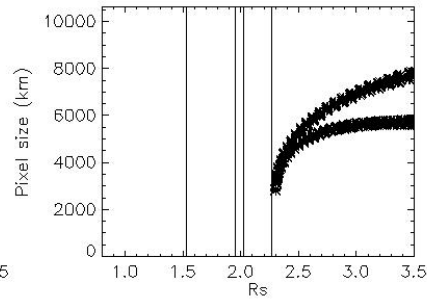
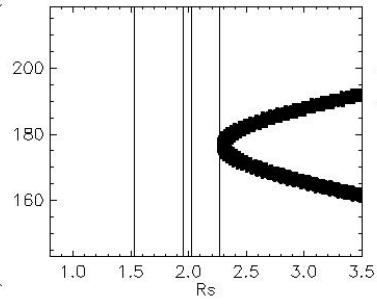
S/C—Observation Point Distance (10^4)

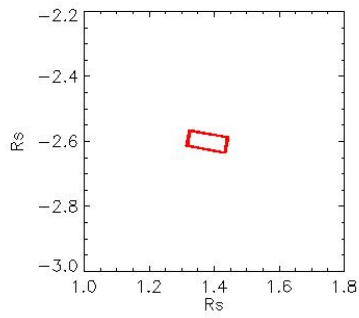
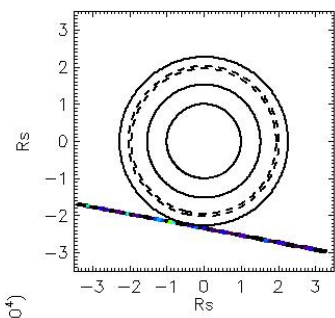




Observation Name:
 UVS_055R1FMONITOR001_CIRS
 Observation Date:
 2008_008_17_33_51
 Observation Duration:
 5100 S
 Integration time = 300 S

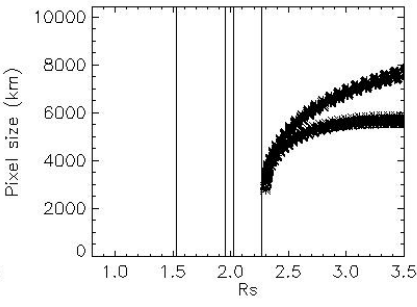
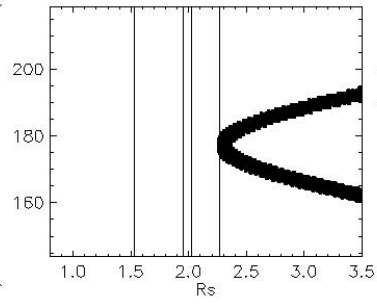
S/C—Observation Point Distance (10^4)



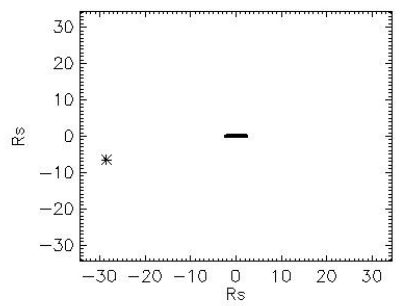
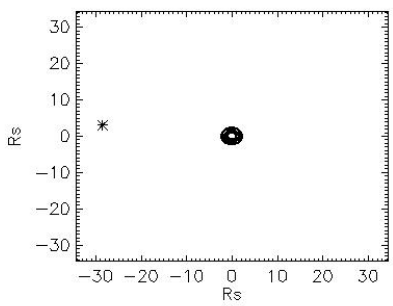
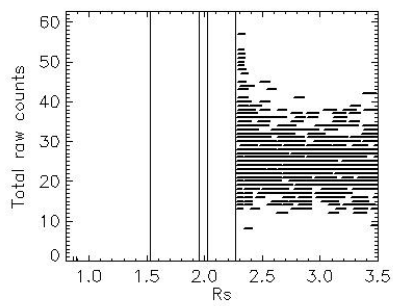
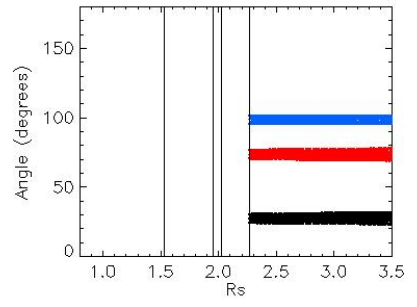


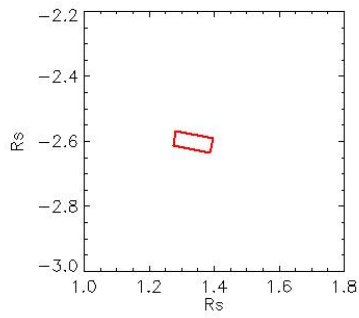
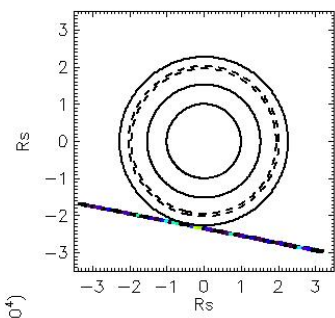
Observation Name:
 UVS_055RLFMONITOR001_CIRS
 Observation Date:
 2008_008_19_31_51
 Observation Duration:
 5100 S
 Integration time = 300 S

S/C—Observation Point Distance (10^4)



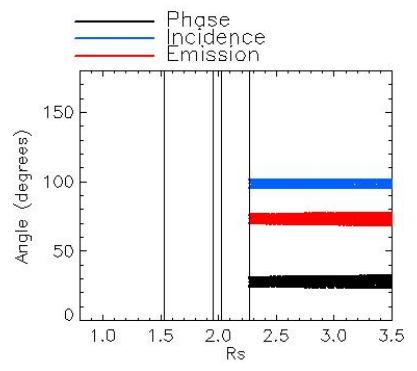
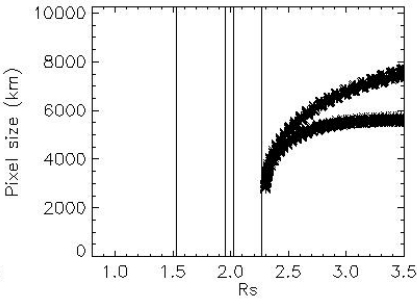
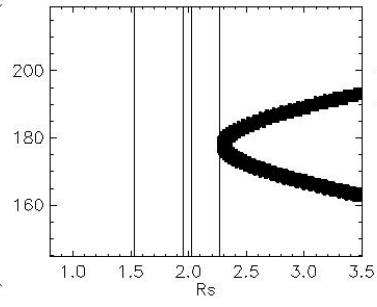
— Phase
 — Incidence
 — Emission



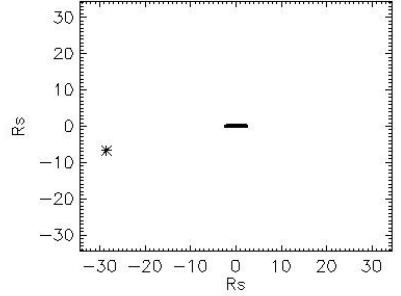
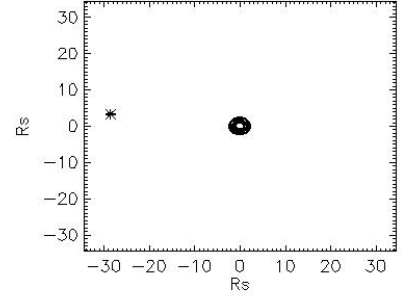
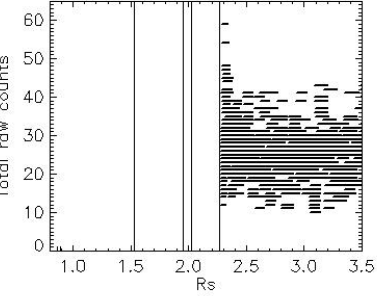


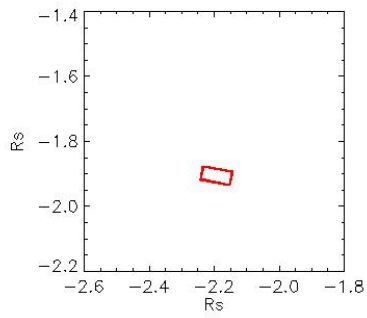
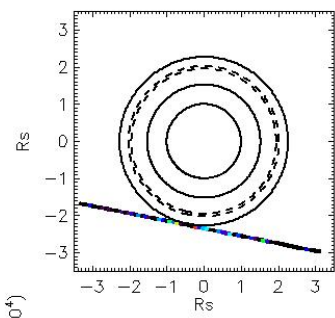
Observation Name:
 UVS_055RLFMONITOR001_CIRS
 Observation Date:
 2008_008_21_29_51
 Observation Duration:
 5100 S
 Integration time = 300 S

S/C—Observation Point Distance (10^4)



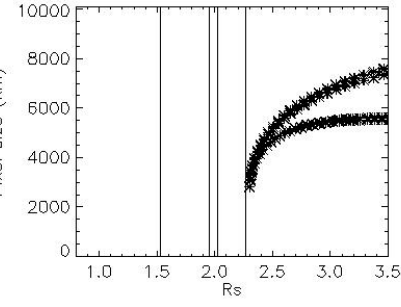
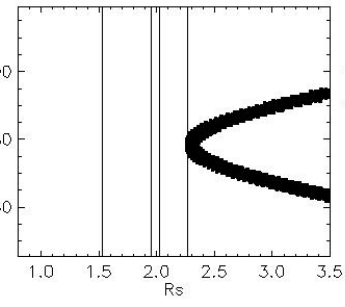
Total raw counts



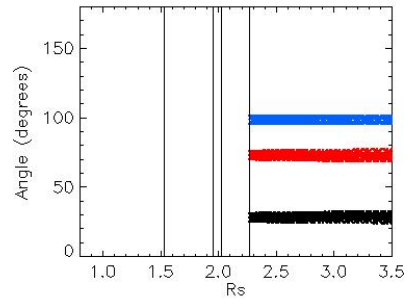


Observation Name:
 UVS_055RLFMONITOR001_CIRS
 Observation Date:
 2008_008_23_27_51
 Observation Duration:
 1800 S
 Integration time = 300 S

S/C—Observation Point Distance (10^4)



— Phase
 — Incidence
 — Emission



Total raw counts

