

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.

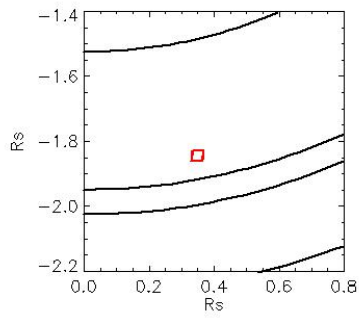
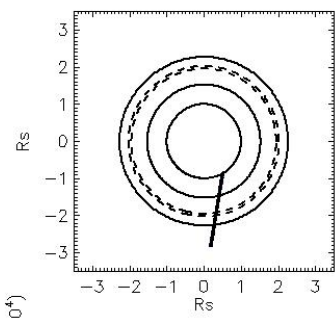
Middle center: Maximum projected smeared pixel size for all data records plotted against the radial location of the projected pixel at the middle of the integration period.

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.

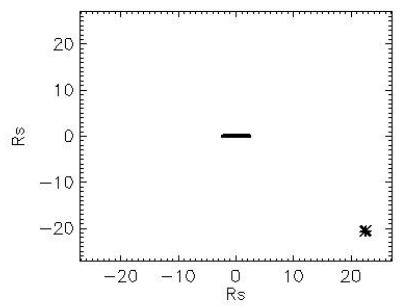
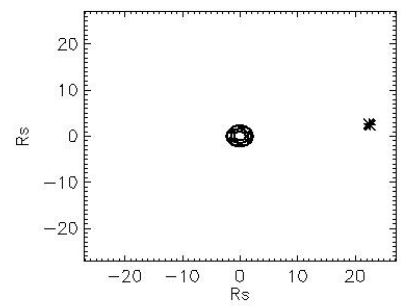
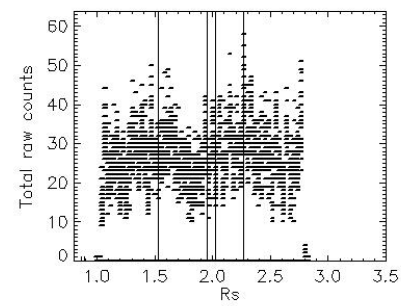
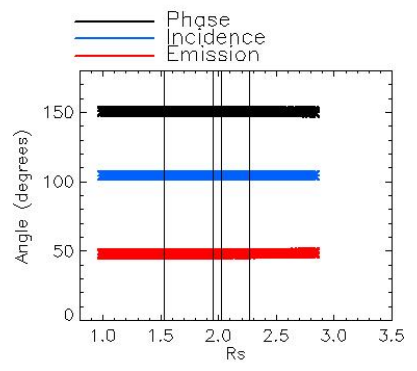
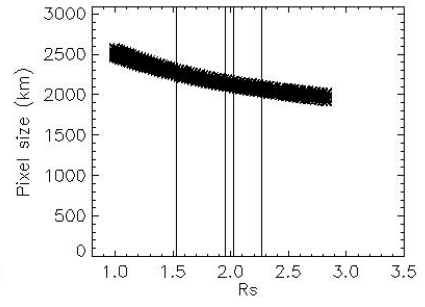
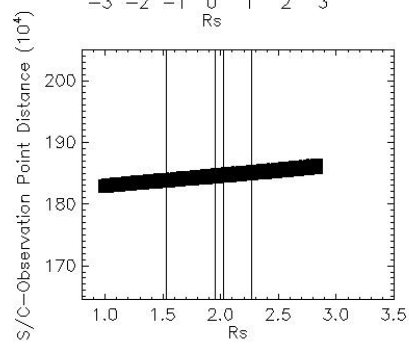


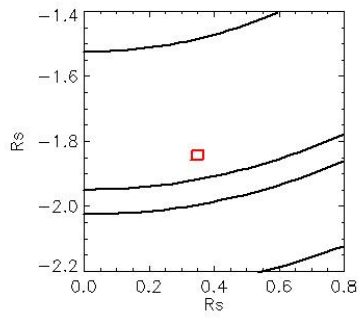
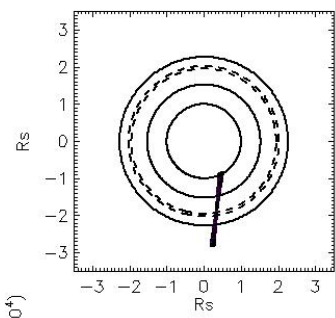
Observation Name:
UMS_037RLSPKMRHPDF001_IJSS

Observation Date:
2007_008_14_18_21

Observation Duration:
10200 S

Integration time = 300 S



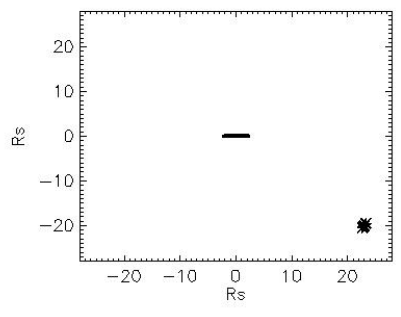
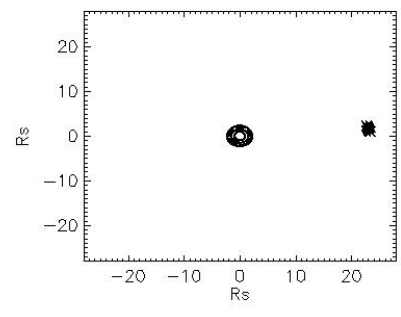
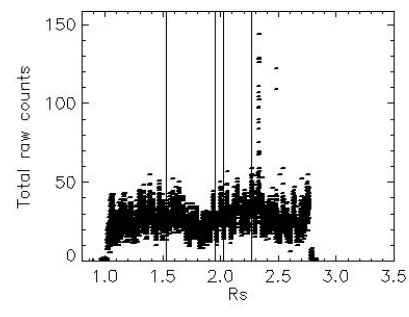
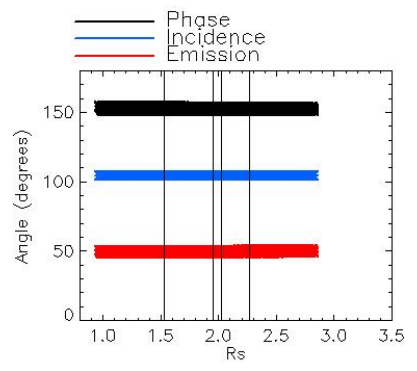
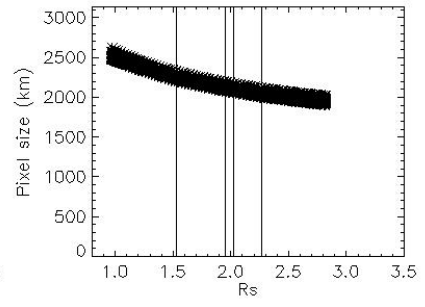
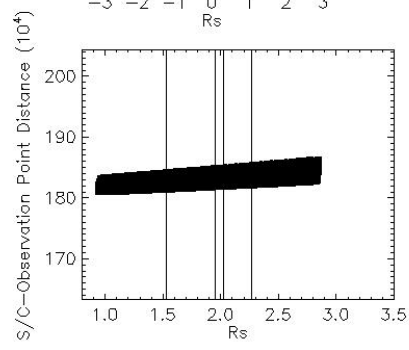


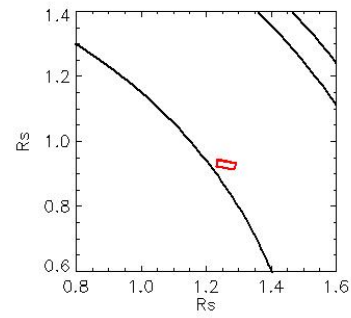
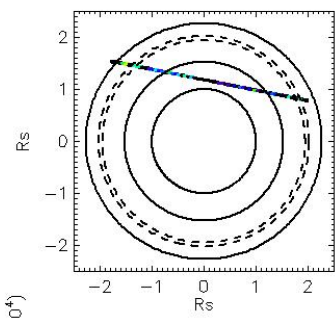
Observation Name:
UVS_037RLSPKMRHPDF001_IJSS

Observation Date:
2007_008_17_18_21

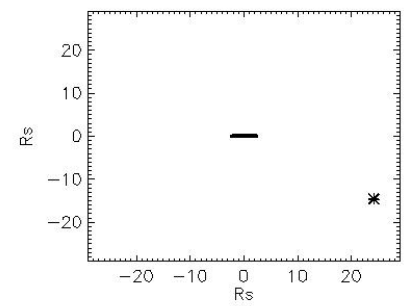
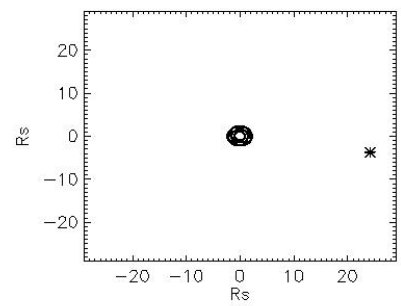
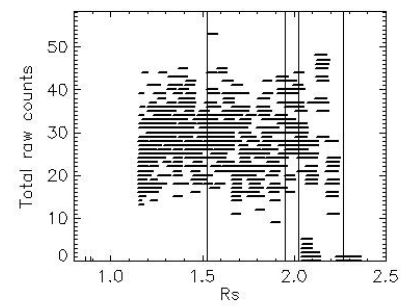
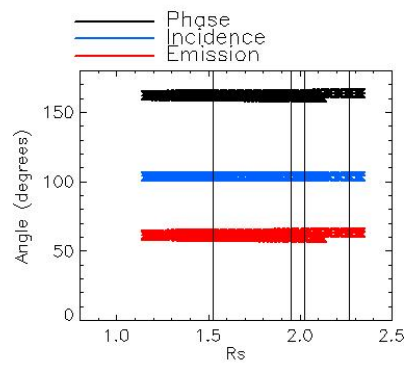
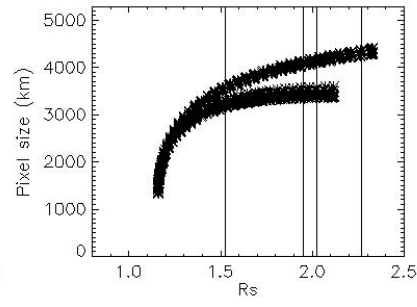
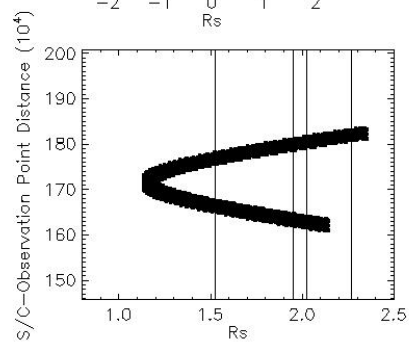
Observation Duration:
38400 S

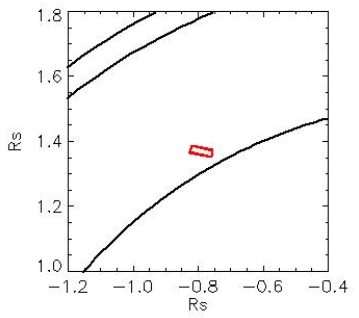
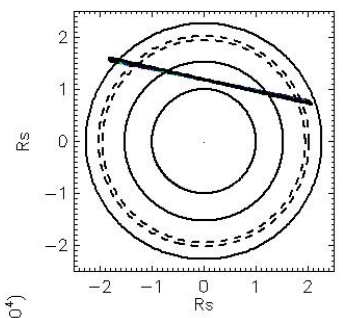
Integration time = 300 S





Observation Name:
 UVS_037RLAZDKMRPH001_IJS
 Observation Date:
 2007_010_16_07_53
 Observation Duration:
 3900 S
 Integration time = 300 S



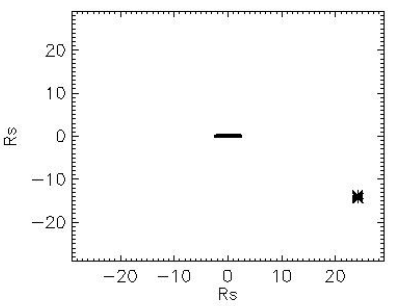
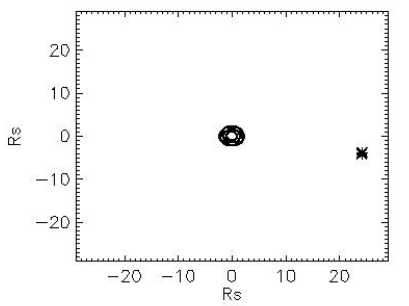
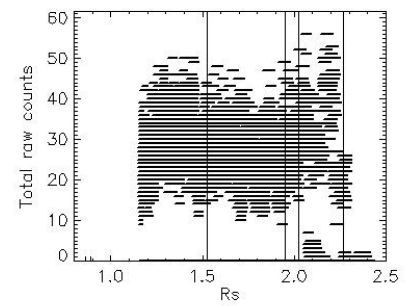
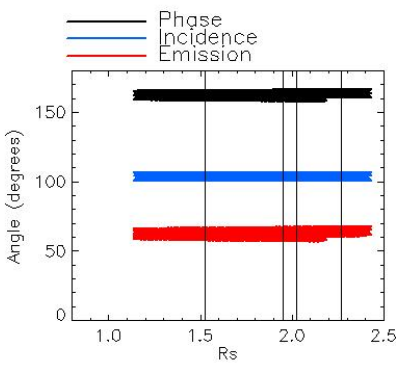
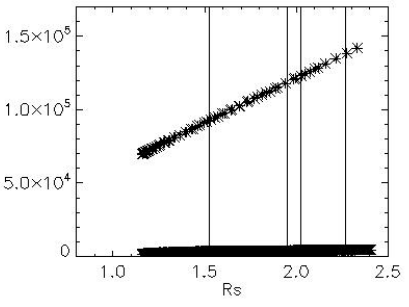
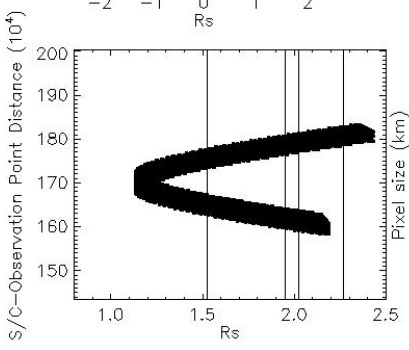


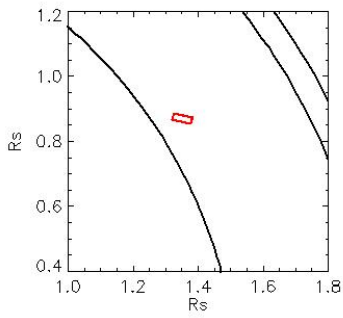
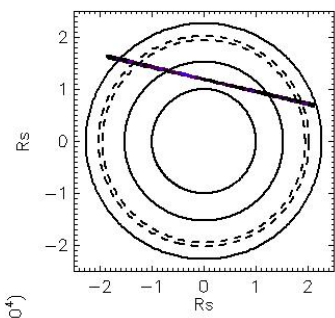
Observation Name:
UMS_037RLAZDKMRPH001_JSS

Observation Date:
2007_010_17_12_53

Observation Duration:
16500 S

Integration time = 300 S



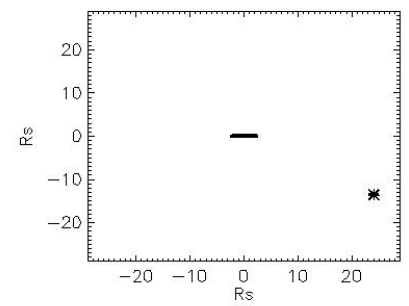
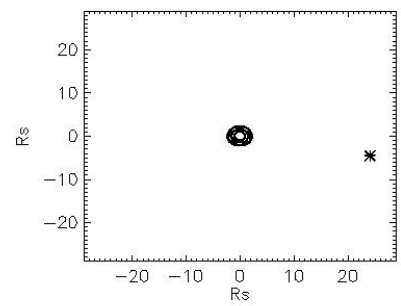
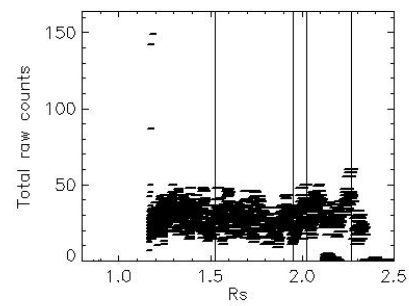
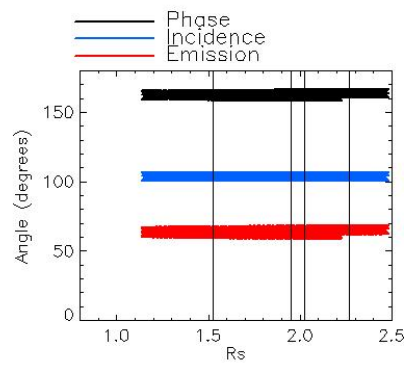
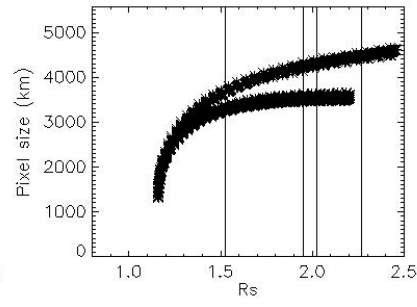
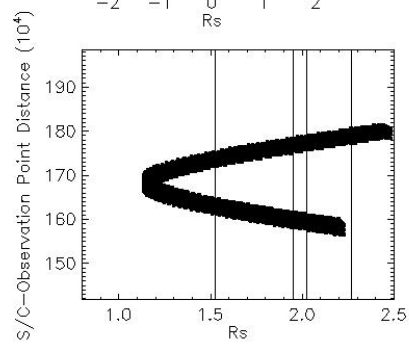


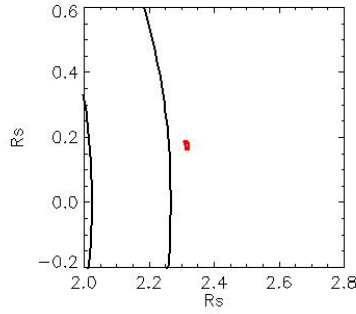
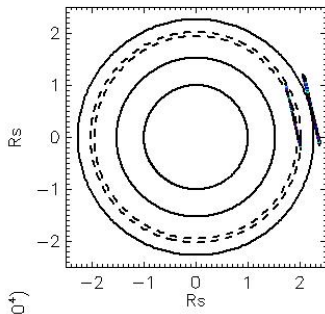
Observation Name:
UMS_037RLAZDKMRPH001_JSS

Observation Date:
2007_010_22_12_53

Observation Duration:
8700 S

Integration time = 300 S



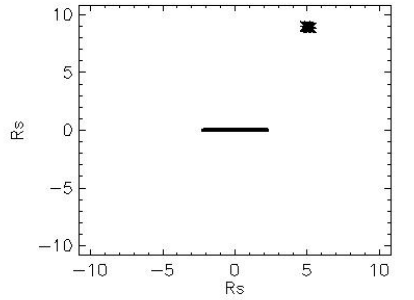
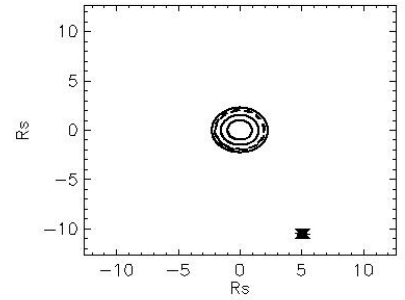
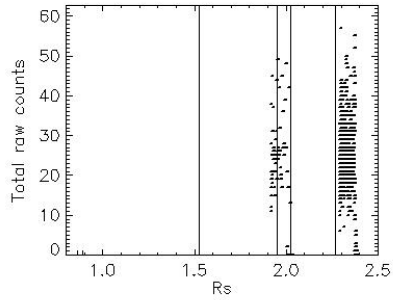
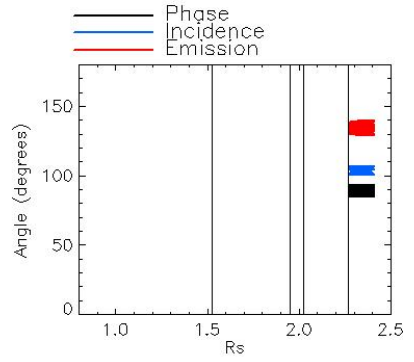
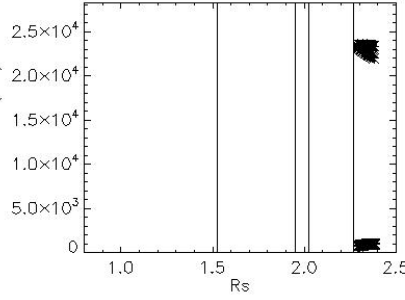
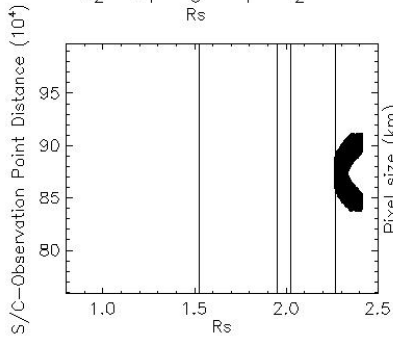


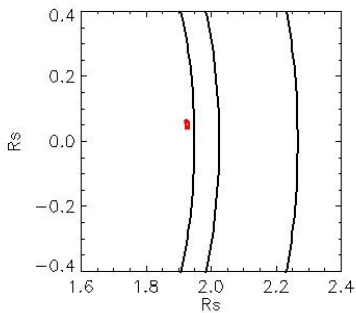
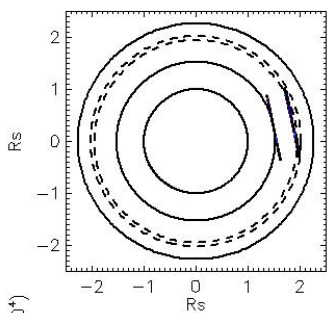
Observation Name:
UVIS_037RLLATPHASE002_VIMS

Observation Date:
2007_015_06_10_51

Observation Duration:
3900 S

Integration time = 300 S



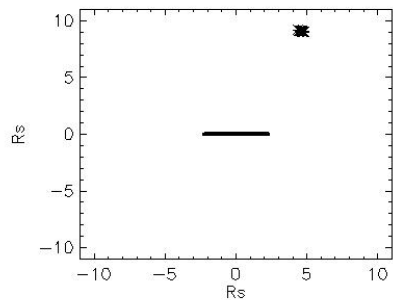
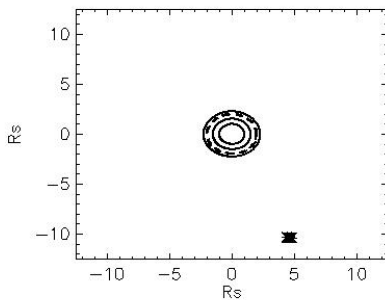
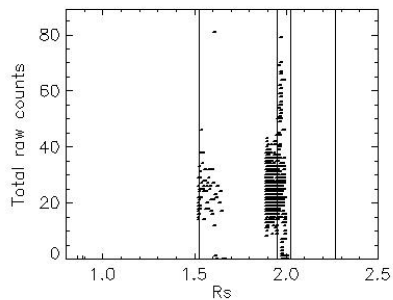
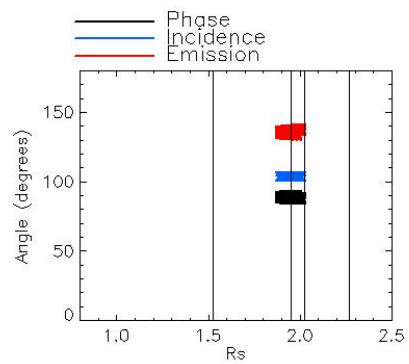
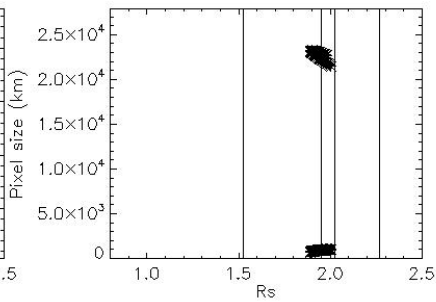
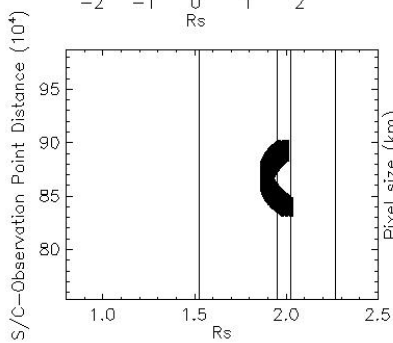


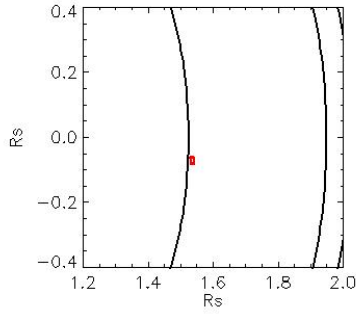
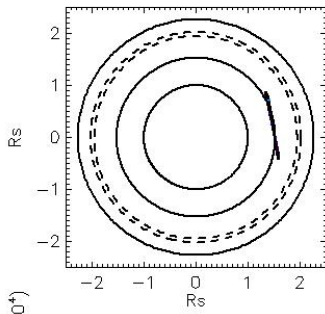
Observation Name:
UMS_037RLATPHASE002_VIMS

Observation Date:
2007_015_07_16_47

Observation Duration:
3900 S

Integration time = 300 S



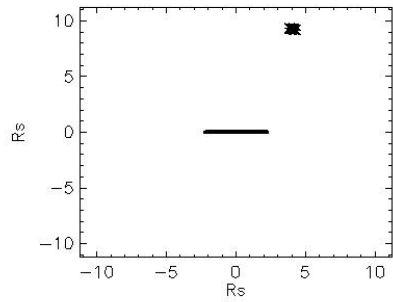
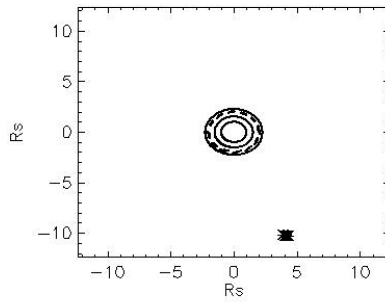
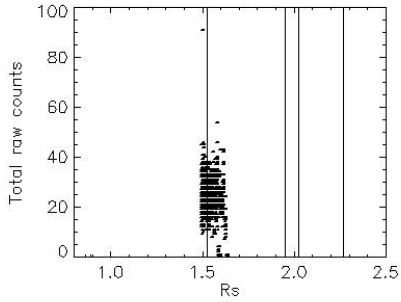
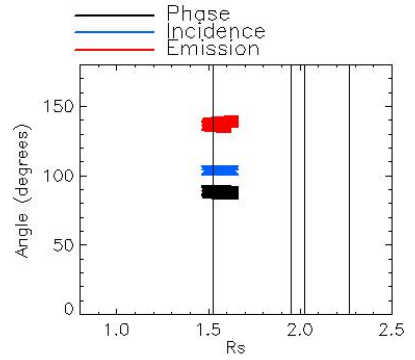
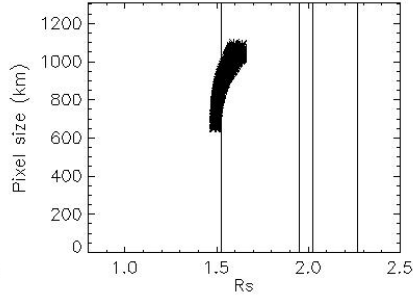
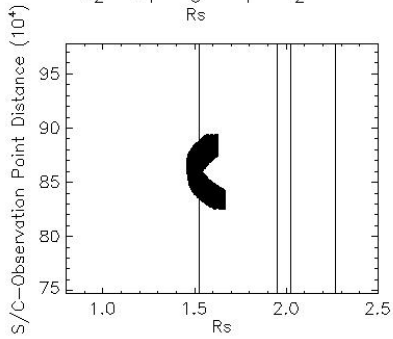


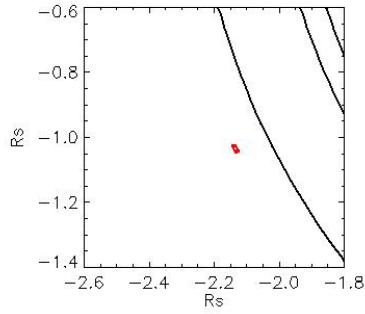
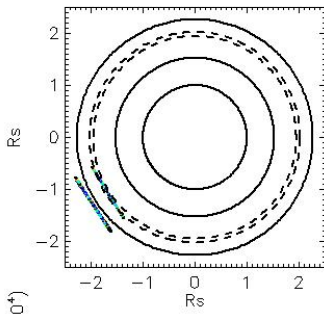
Observation Name:
UVIS_037RLATPHASE002_VIMS

Observation Date:
2007_015_08_22_43

Observation Duration:
4500 S

Integration time = 300 S



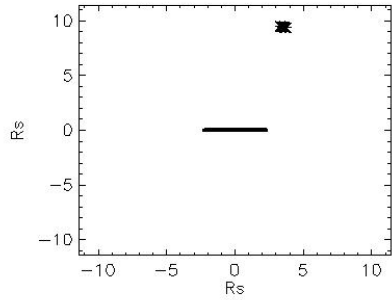
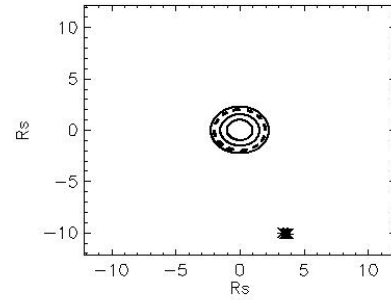
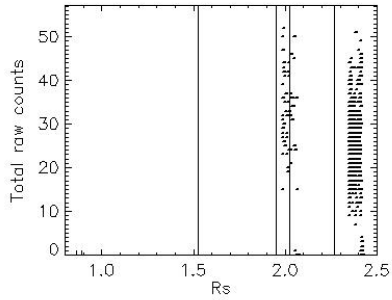
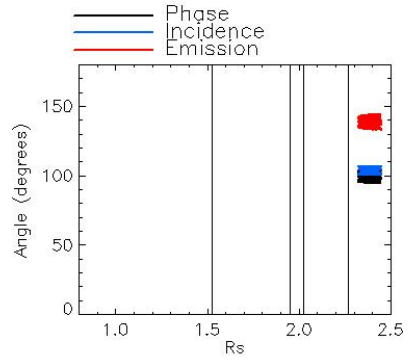
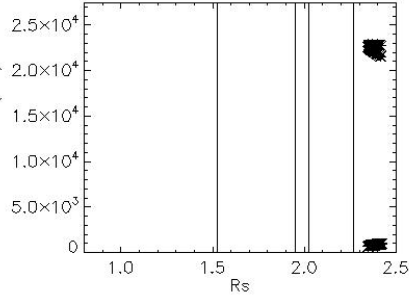
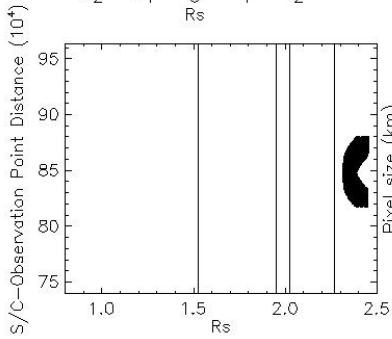


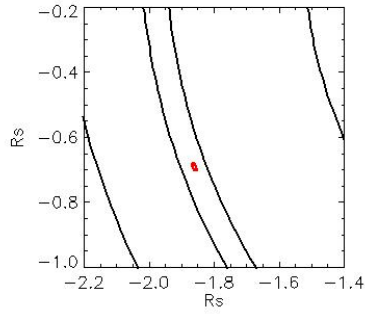
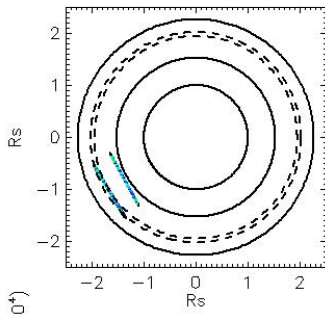
Observation Name:
UMS_037RLLATPHASE002_VIMS

Observation Date:
2007_015_09_45_36

Observation Duration:
3900 S

Integration time = 300 S



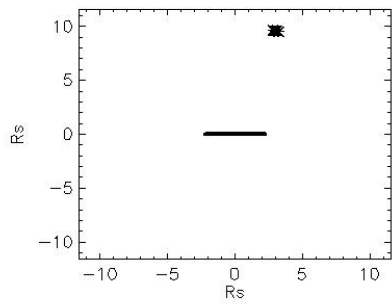
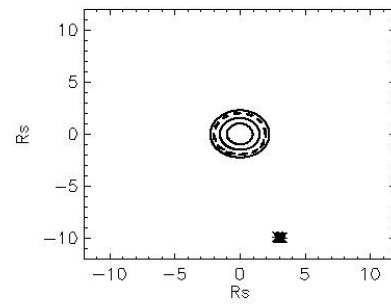
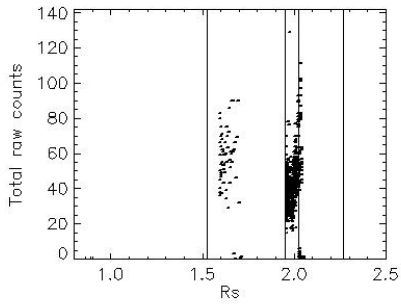
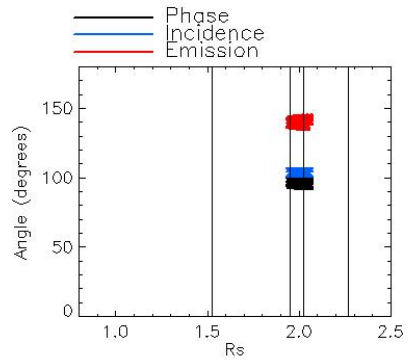
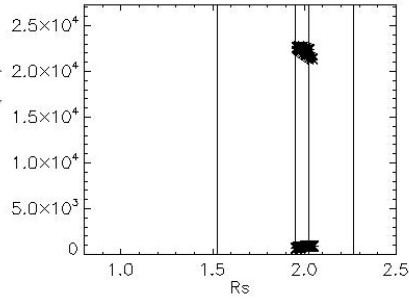
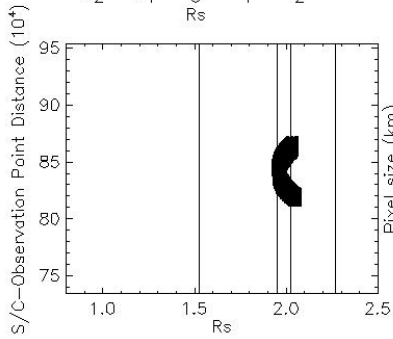


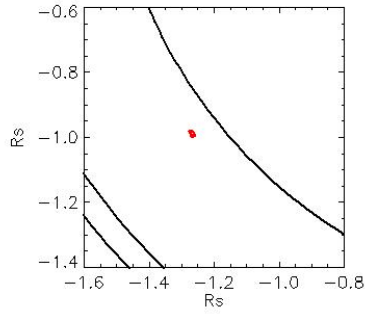
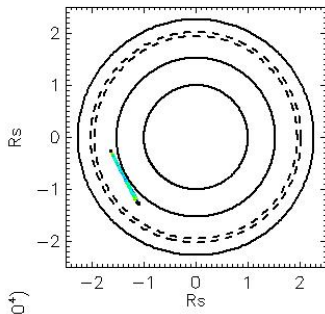
Observation Name:
UMS_037RLATPHASE002_VIMS

Observation Date:
2007_015_10_51_33

Observation Duration:
3900 S

Integration time = 300 S



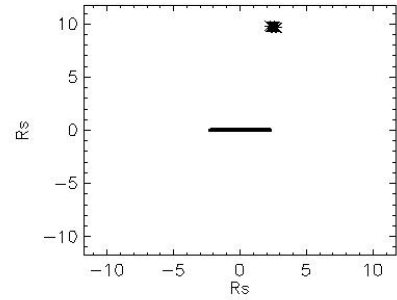
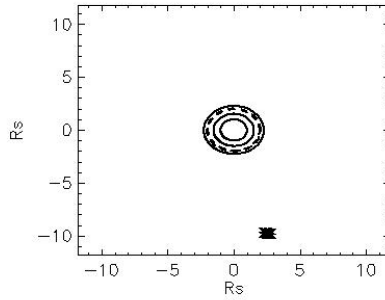
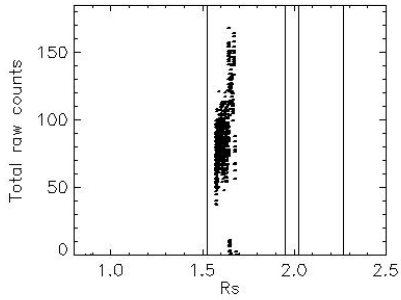
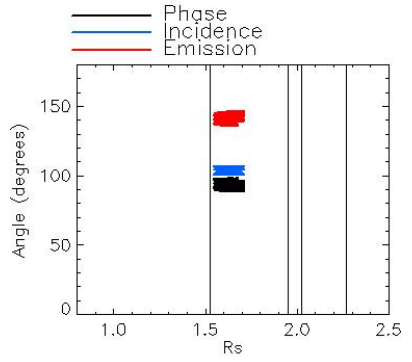
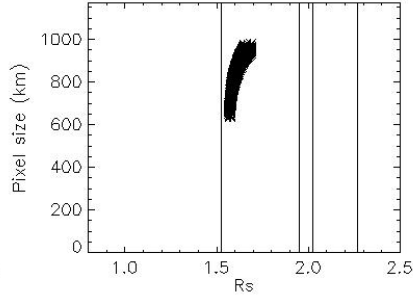
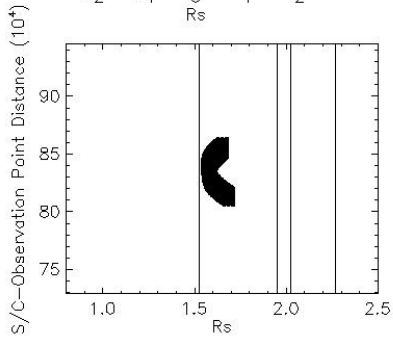


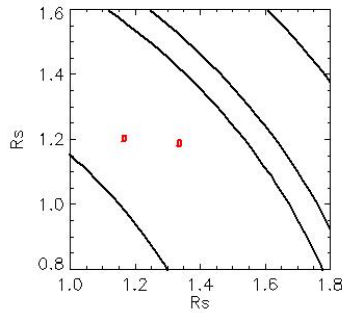
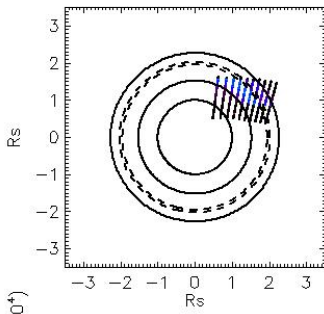
Observation Name:
UMS_037RLLATPHASE02_VIMS

Observation Date:
2007_015_11_57_29

Observation Duration:
4200 S

Integration time = 300 S



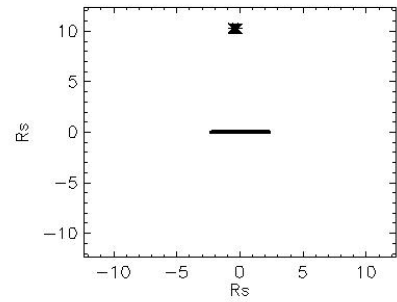
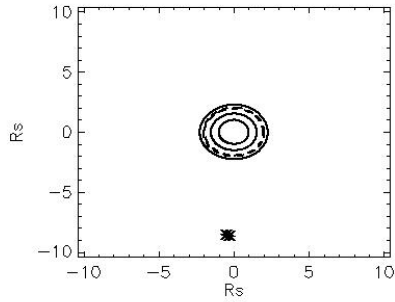
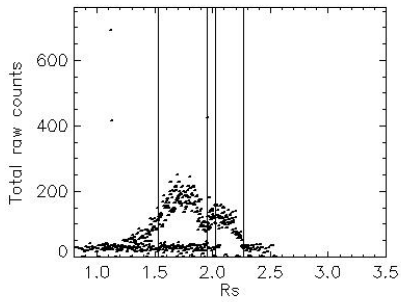
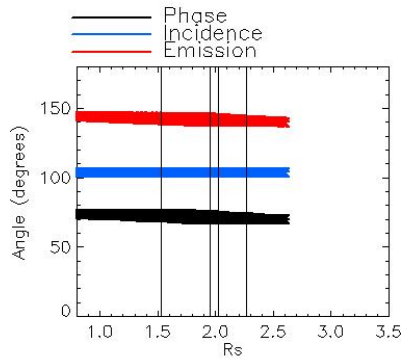
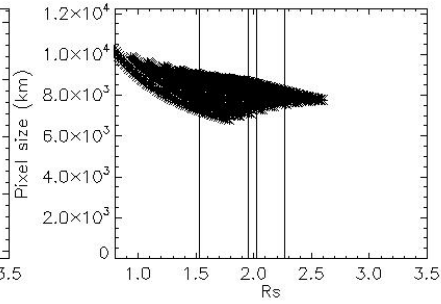
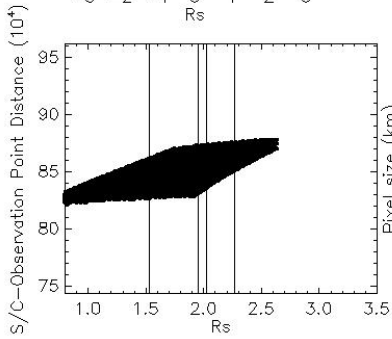


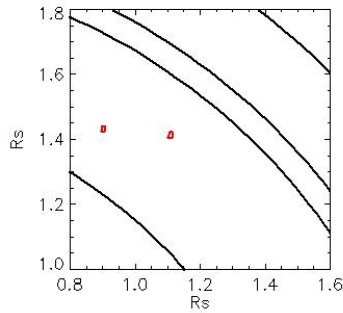
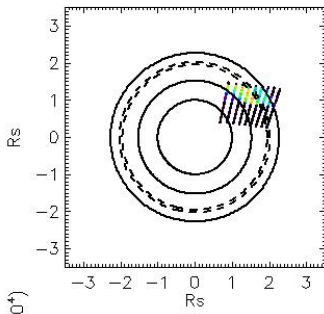
Observation Name:
UMS_037RLVERTLMP001_CIRS

Observation Date:
2007_015_18_19_51

Observation Duration:
2700 S

Integration time = 300 S



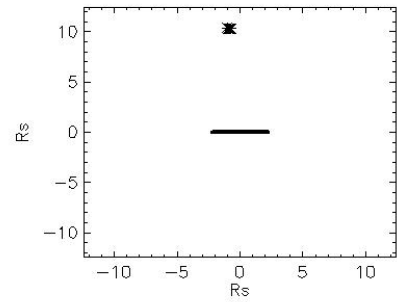
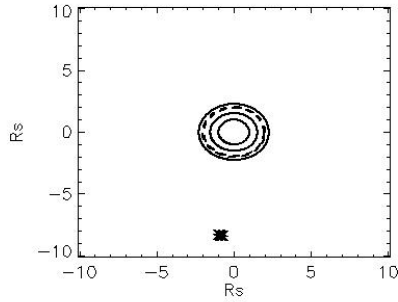
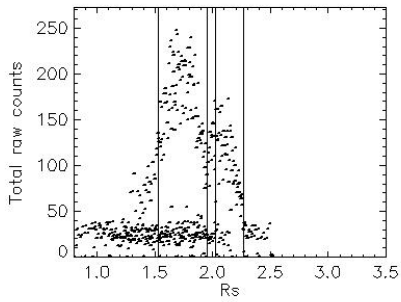
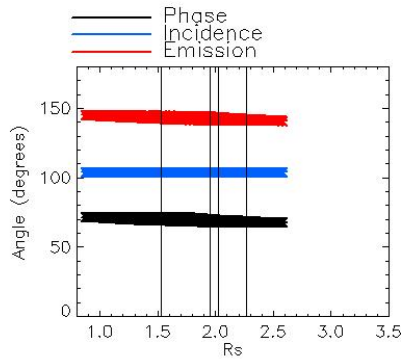
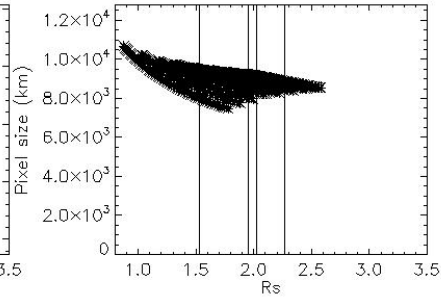
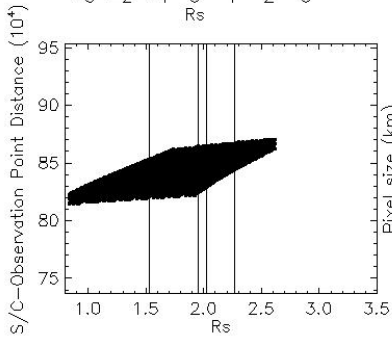


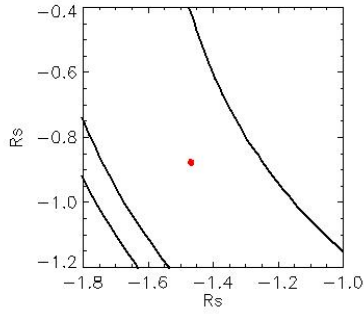
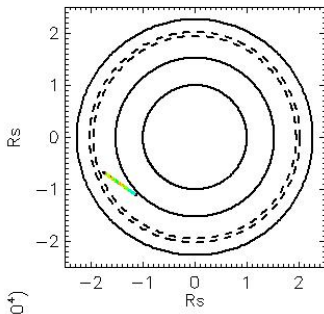
Observation Name:
UMS_037RLVERTLMP001_CIRS

Observation Date:
2007_015_19_19_51

Observation Duration:
2400 S

Integration time = 300 S



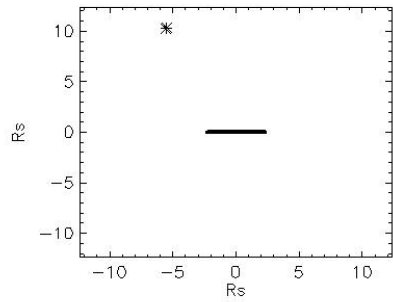
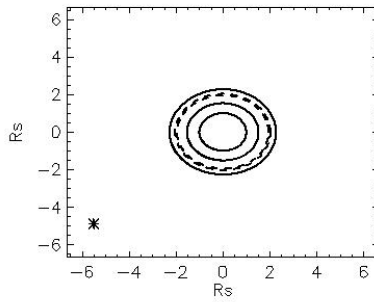
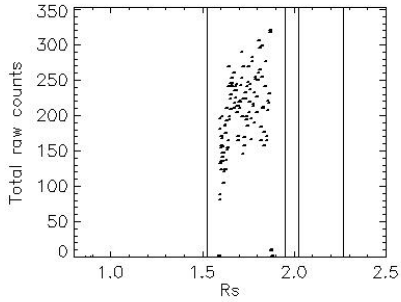
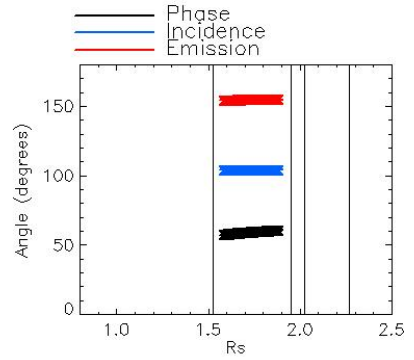
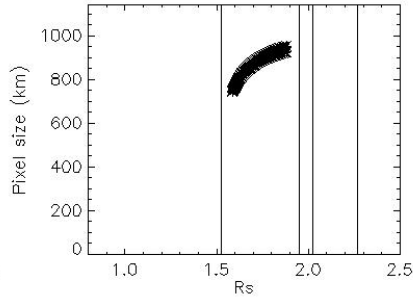
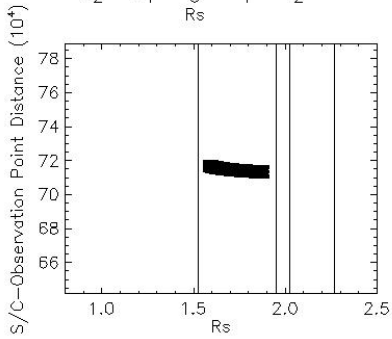


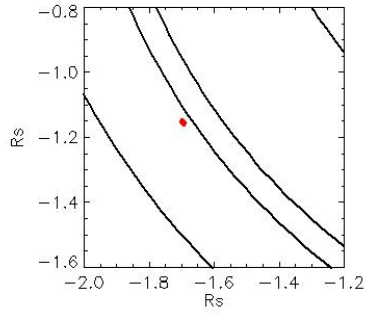
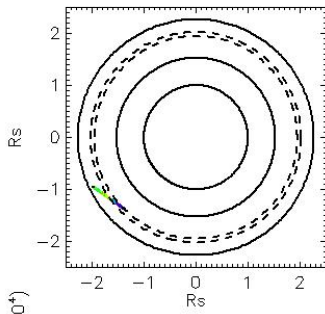
Observation Name:
UVS_037RB_SPOKE001_VIMS

Observation Date:
2007_016_06_11_02

Observation Duration:
600 S

Integration time = 300 S



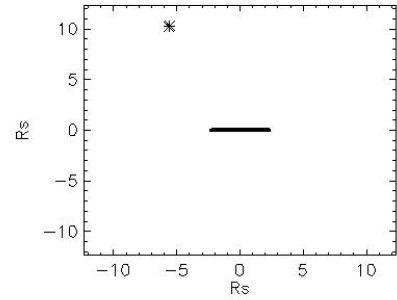
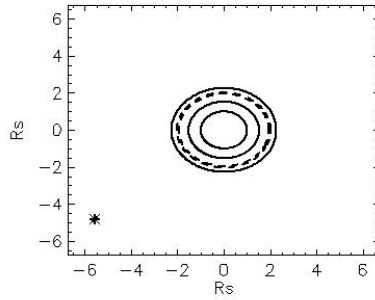
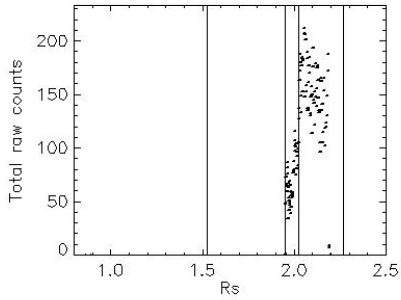
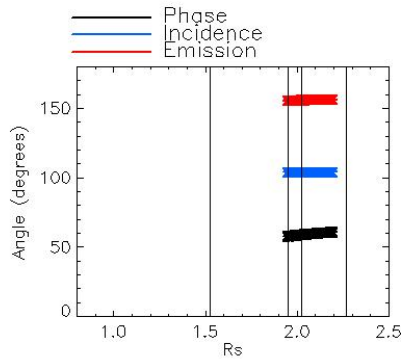
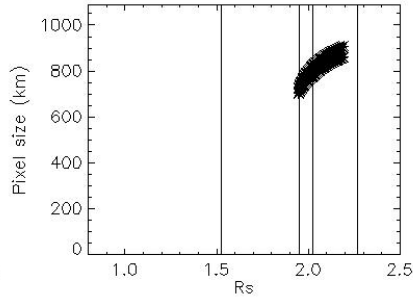
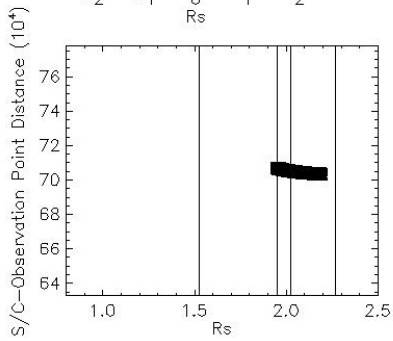


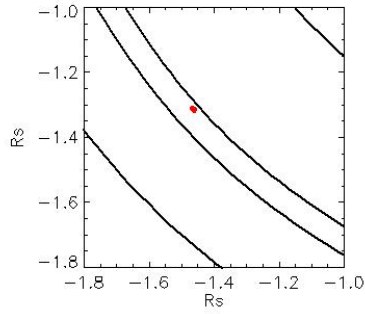
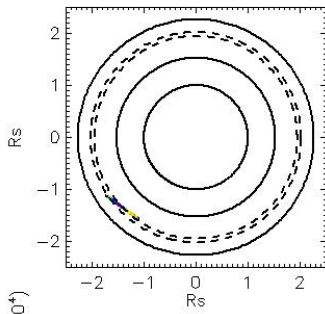
Observation Name:
UMS_037RB_SPOKE001_VIMS

Observation Date:
2007_016_06_24_28

Observation Duration:
600 S

Integration time = 300 S



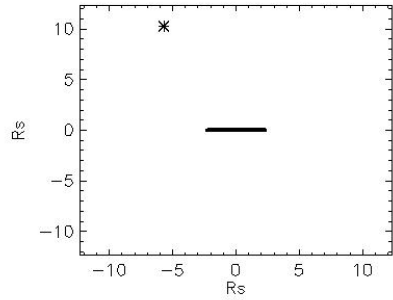
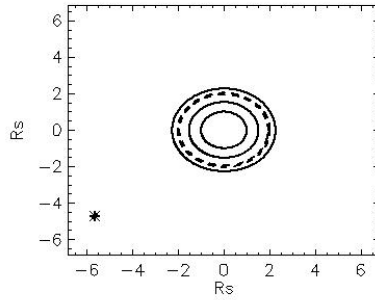
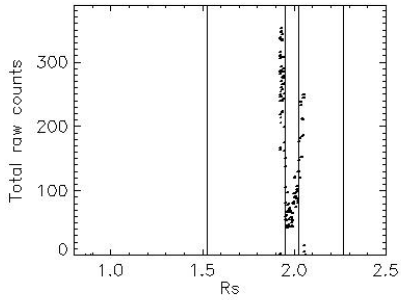
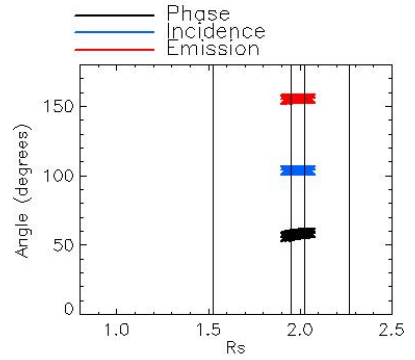
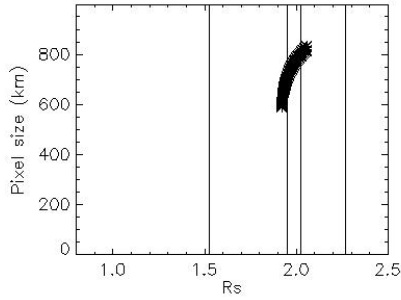
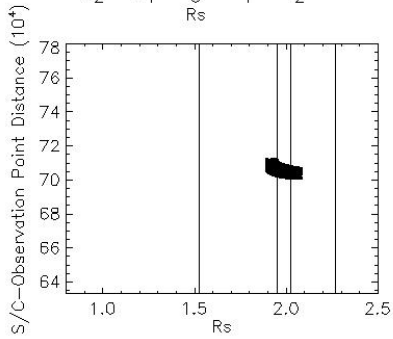


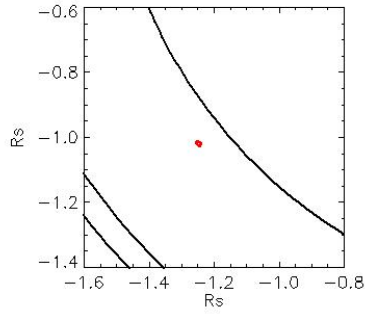
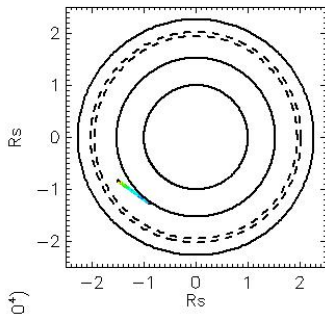
Observation Name:
UMS_037RB_SPOKE001_VIMS

Observation Date:
2007_016_06_38_32

Observation Duration:
600 S

Integration time = 300 S



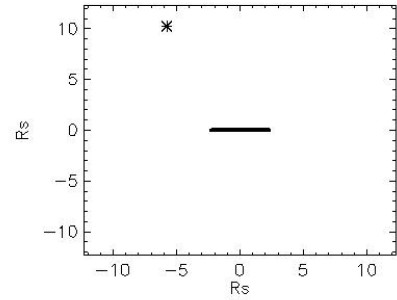
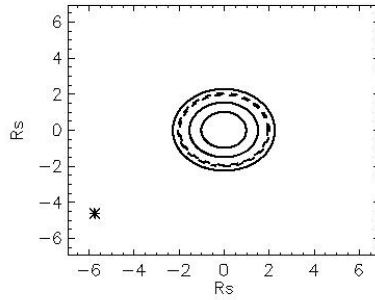
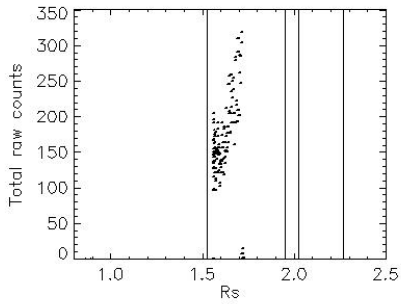
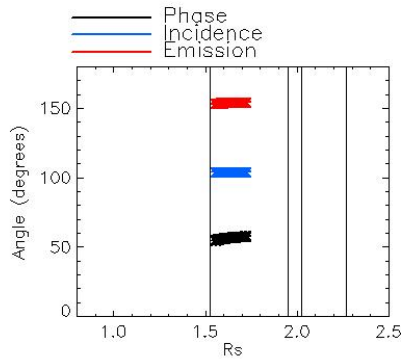
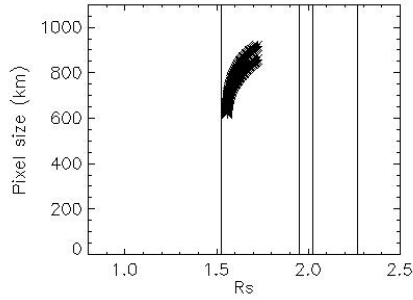
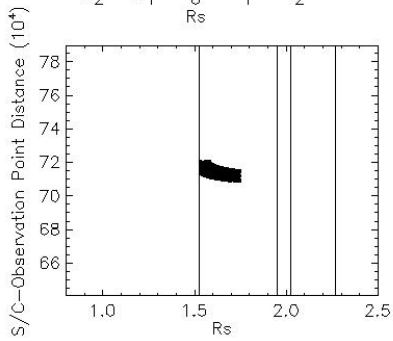


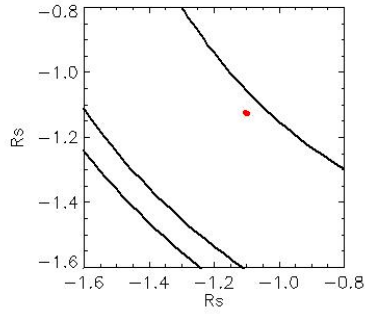
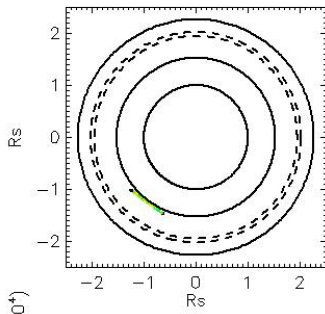
Observation Name:
UVS_037RB_SPOKE001_VIMS

Observation Date:
2007_016_06_51_58

Observation Duration:
600 S

Integration time = 300 S



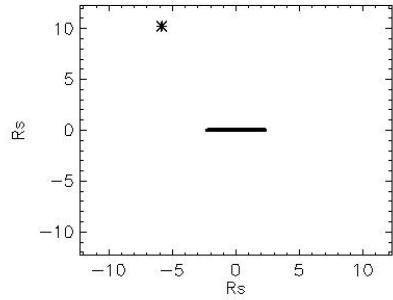
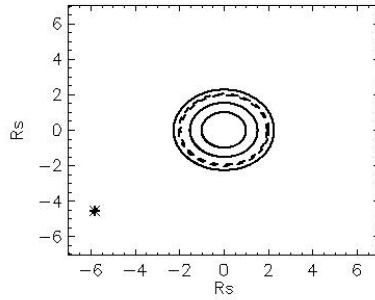
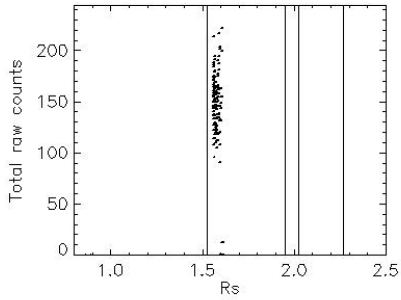
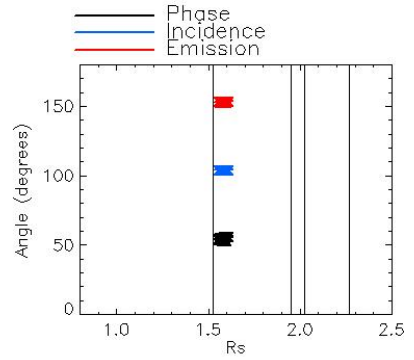
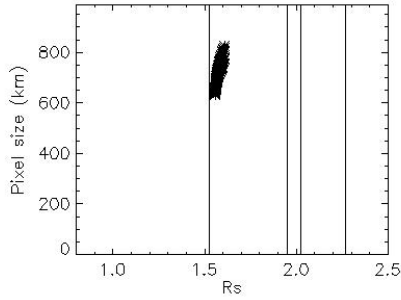
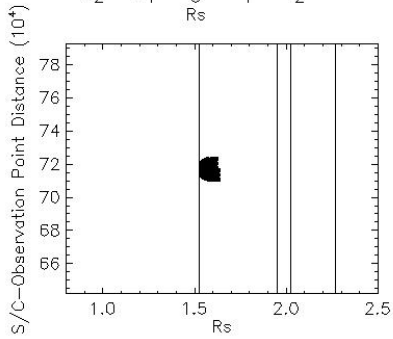


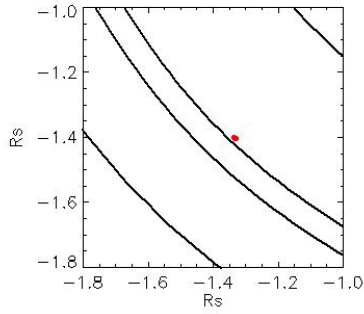
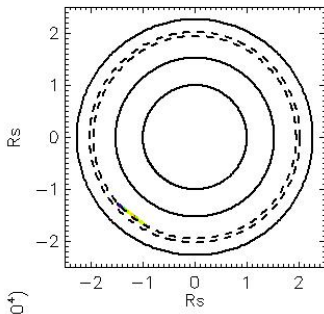
Observation Name:
UMS_037RB_SPOKE001_VIMS

Observation Date:
2007_016_07_06_02

Observation Duration:
600 S

Integration time = 300 S



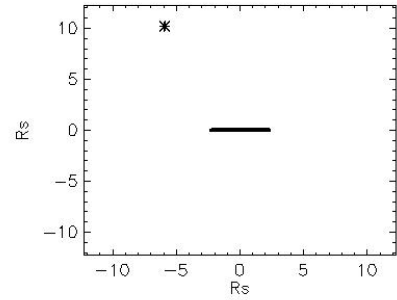
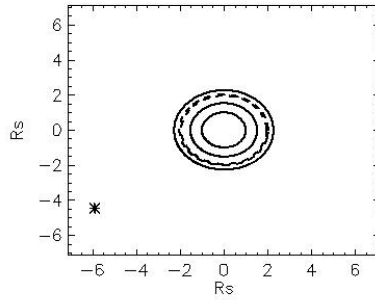
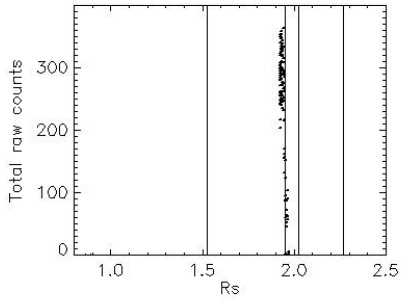
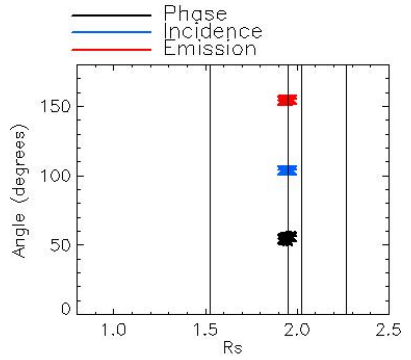
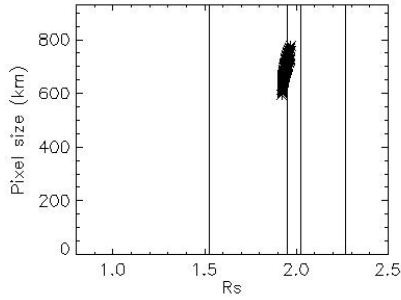
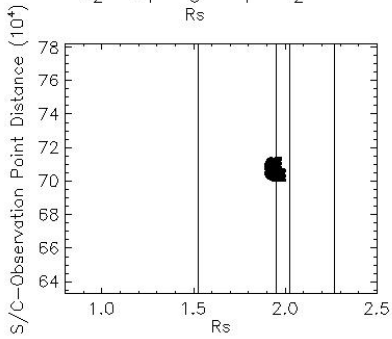


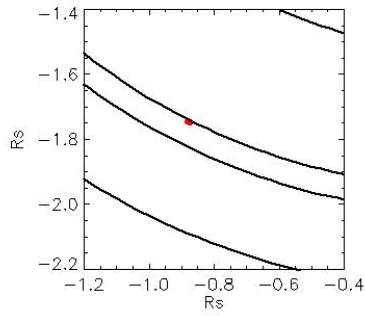
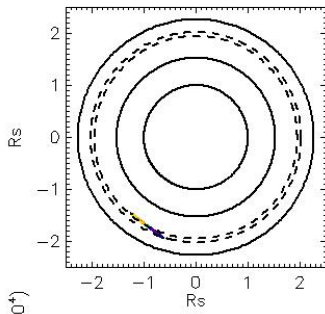
Observation Name:
UMS_037RB_SPOKE001_VIMS

Observation Date:
2007_016_07_19_28

Observation Duration:
600 S

Integration time = 300 S



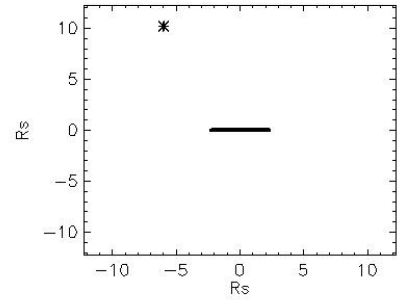
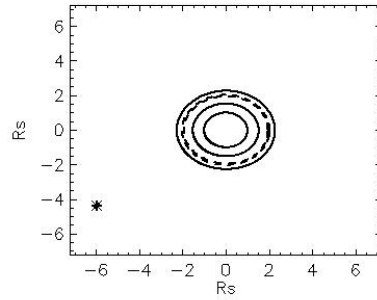
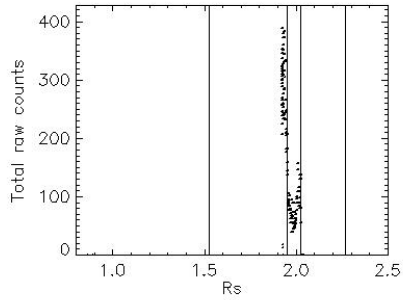
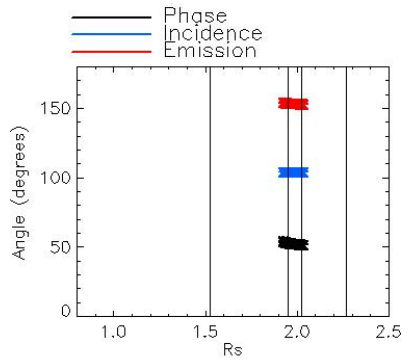
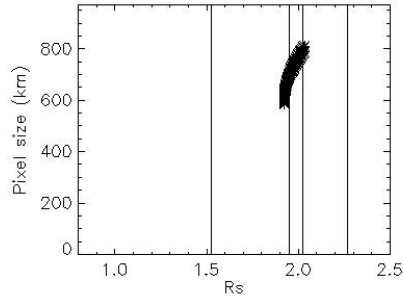
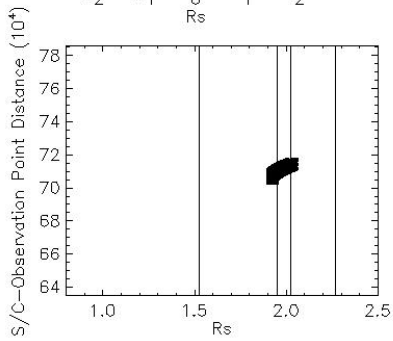


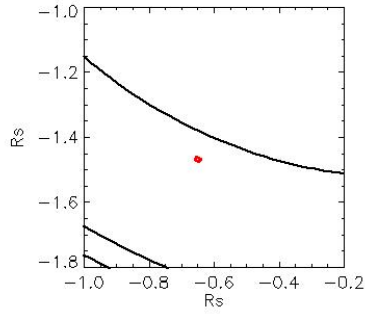
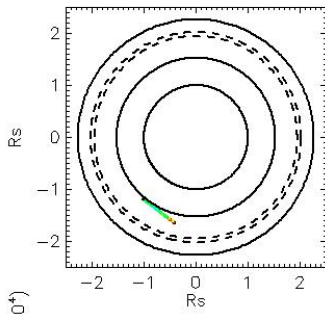
Observation Name:
UMS_037RB_SPOKE001_VIMS

Observation Date:
2007_016_07_33_32

Observation Duration:
600 S

Integration time = 300 S



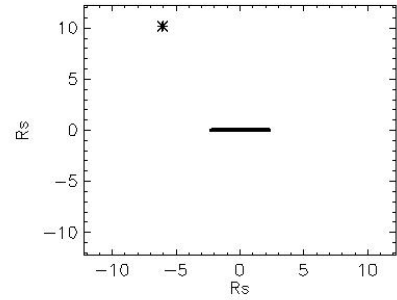
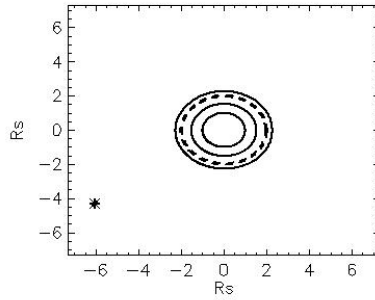
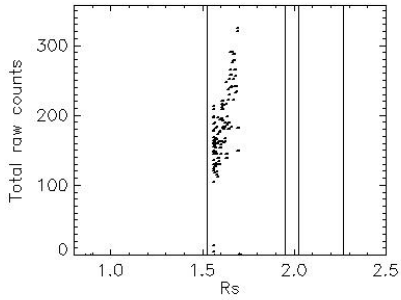
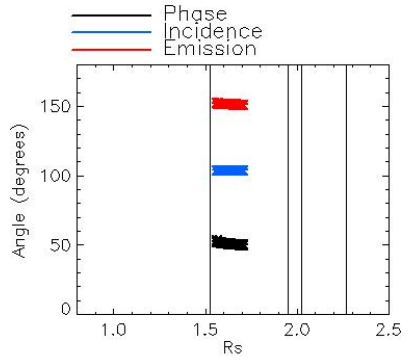
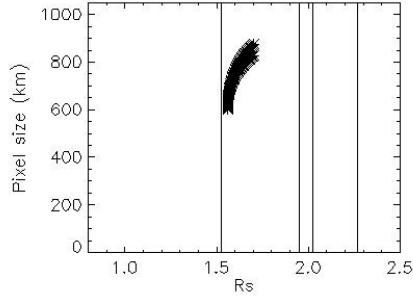
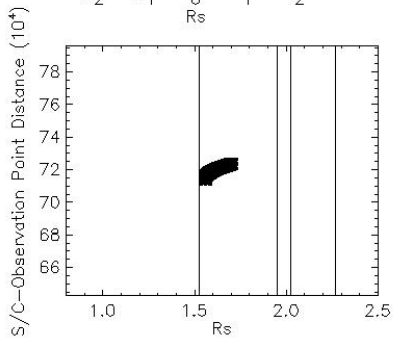


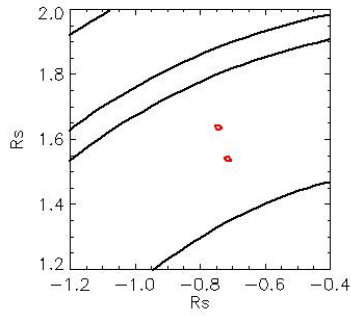
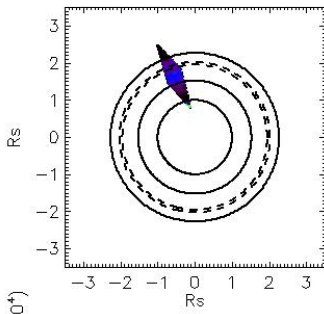
Observation Name:
UVS_037RB_SPOKE001_VIMS

Observation Date:
2007_016_07_46_58

Observation Duration:
600 S

Integration time = 300 S



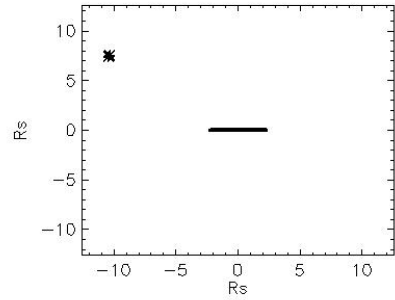
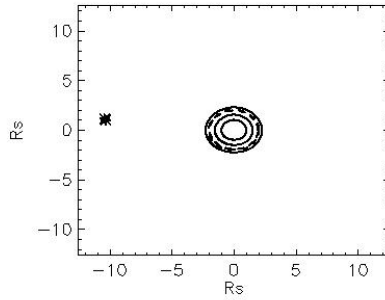
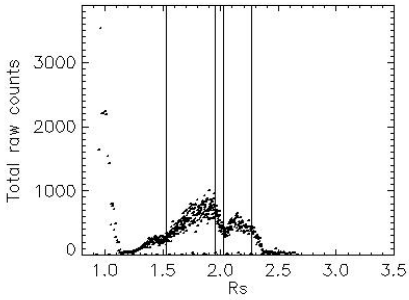
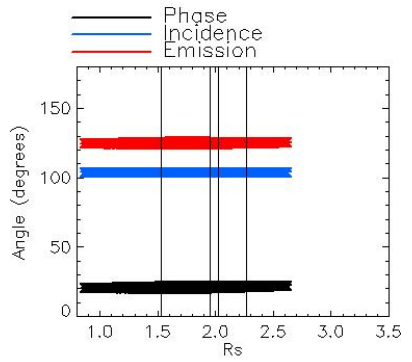
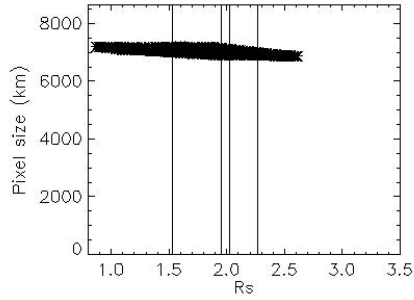
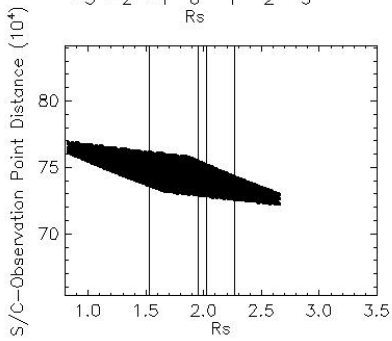


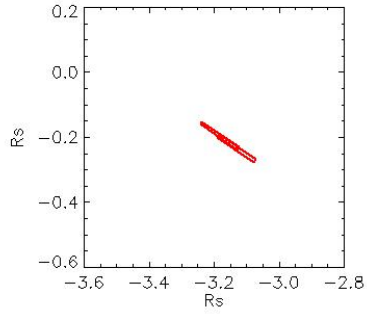
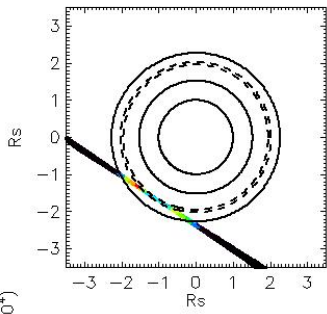
Observation Name:
UMS_037RLTEMPL35LP001_CIRS

Observation Date:
2007_016_23_37_50

Observation Duration:
3000 S

Integration time = 300 S





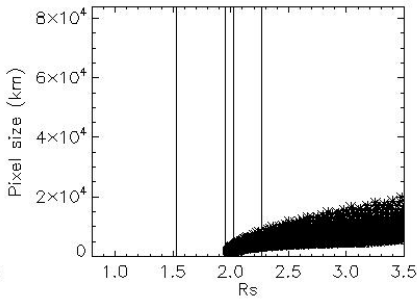
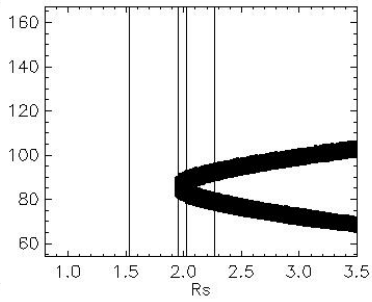
Observation Name:
UMS_037RLRPXMOVIE001_VIMS

Observation Date:
2007_017_15_09_41

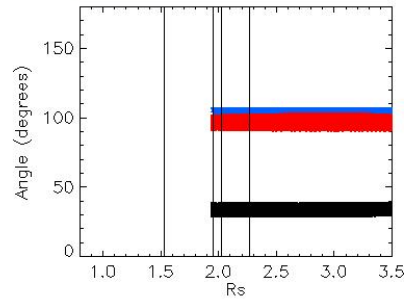
Observation Duration:
11100 S

Integration time = 300 S

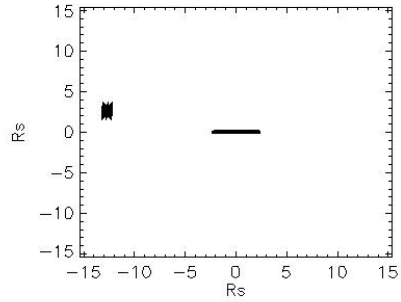
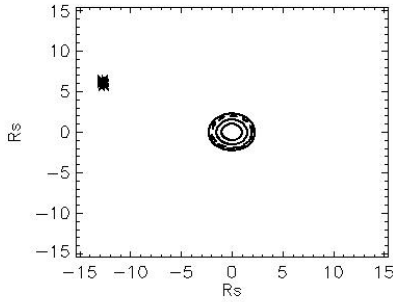
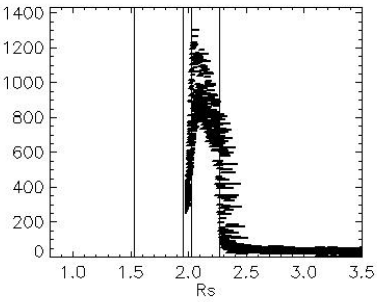
S/C—Observation Point Distance (10^4)

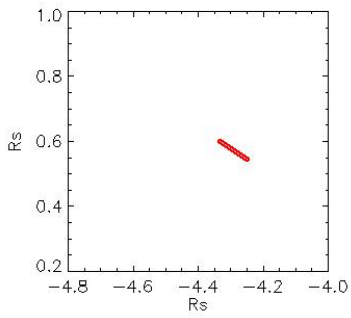
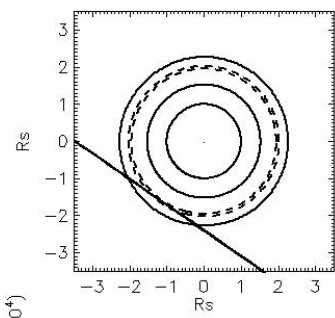


— Phase
— Incidence
— Emission



Total raw counts



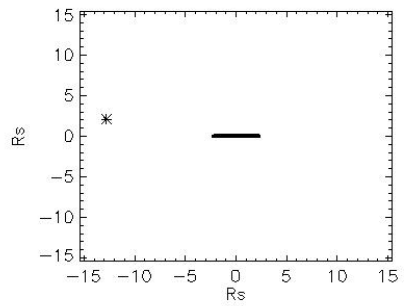
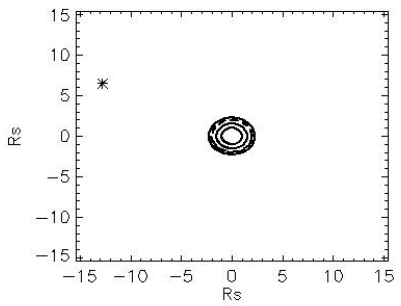
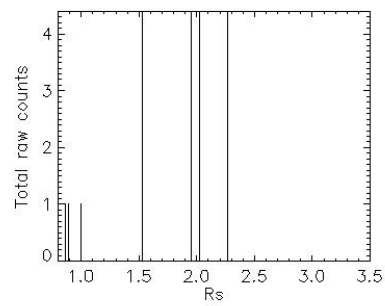
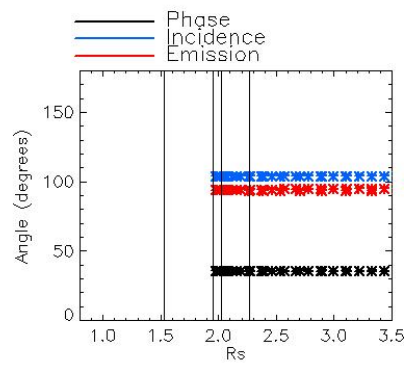
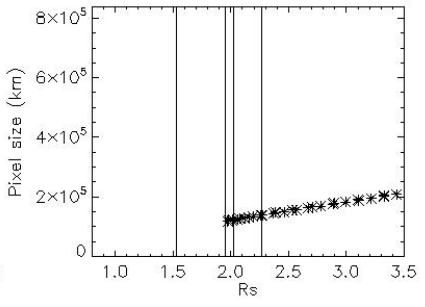
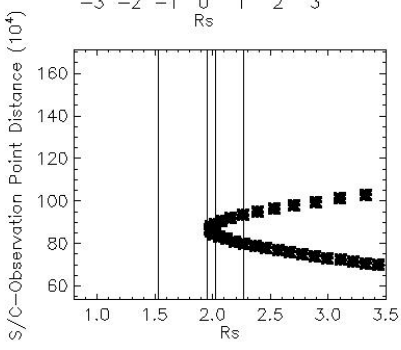


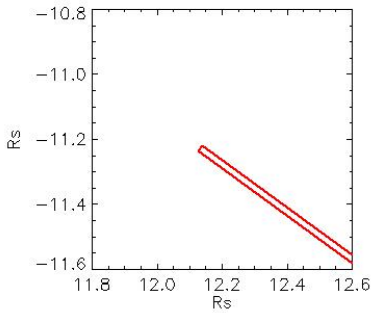
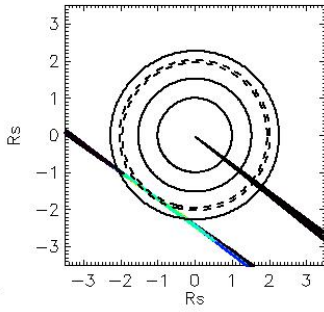
Observation Name:
UVIS_037RLRPXMOVIE001_VIMS

Observation Date:
2007_017_18_14_41

Observation Duration:
600 S

Integration time = 300 S





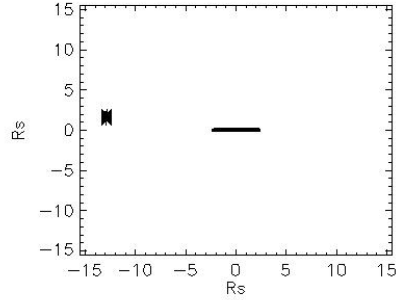
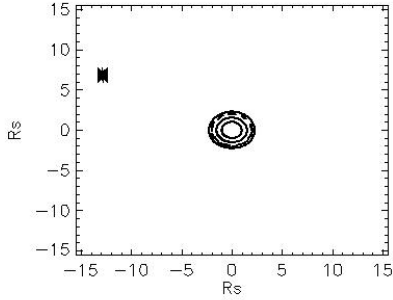
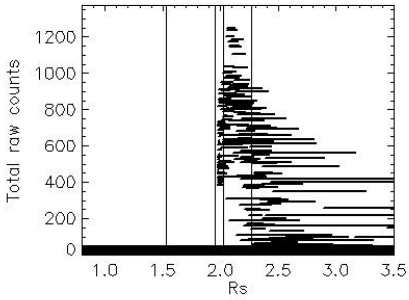
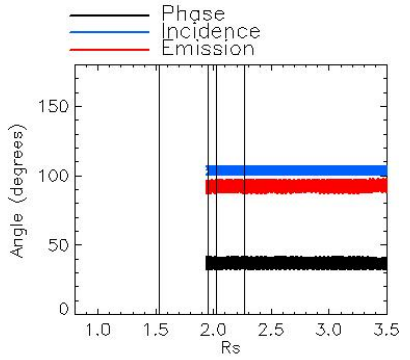
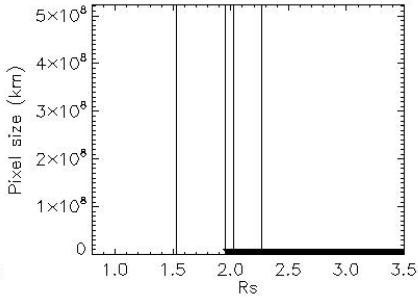
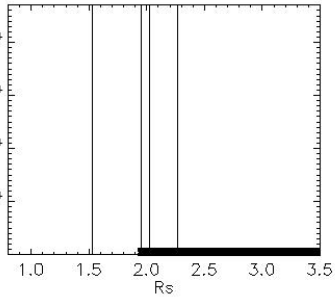
Observation Name:
UVS_037RLRPXMOVIE001_VIMS

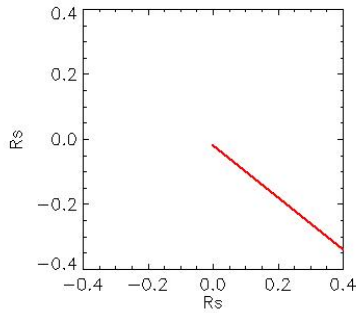
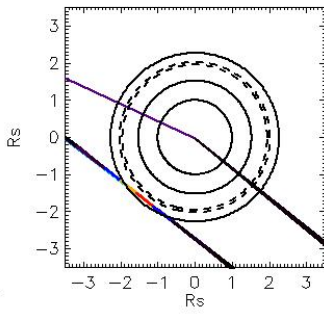
Observation Date:
2007_017_18_24_41

Observation Duration:
9000 S

Integration time = 300 S

S/C—Observation Point Distance (10^4)





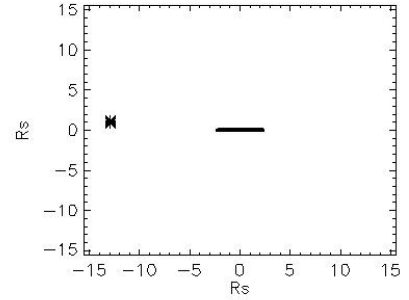
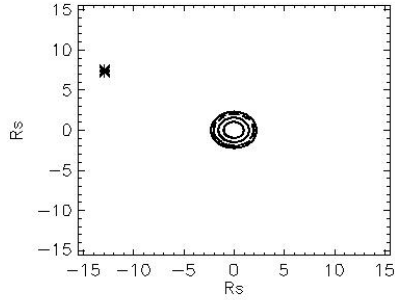
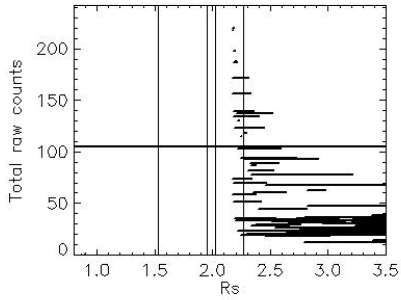
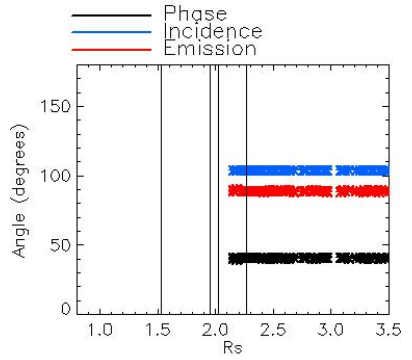
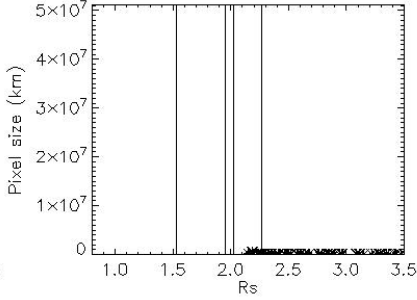
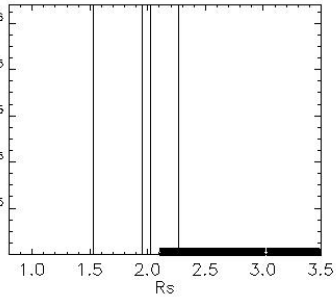
Observation Name:
UVS_037RLRPXMOVIE001_VIMS

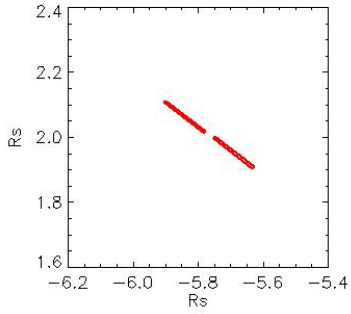
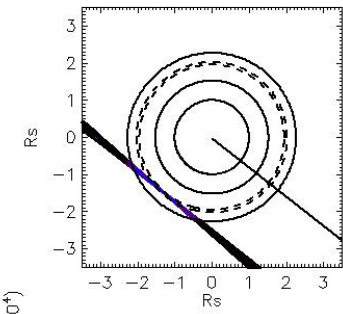
Observation Date:
2007_017_20_59_51

Observation Duration:
4200 S

Integration time = 300 S

S/C—Observation Point Distance (10^4)



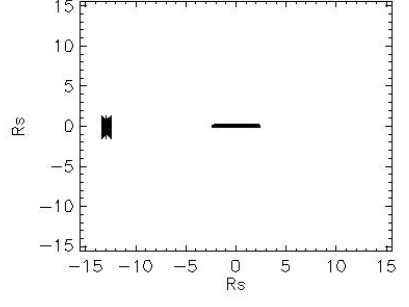
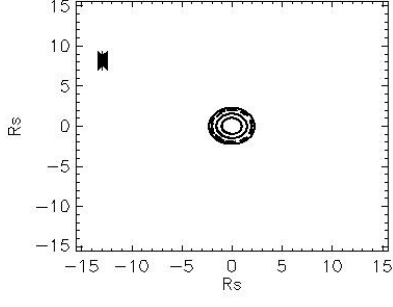
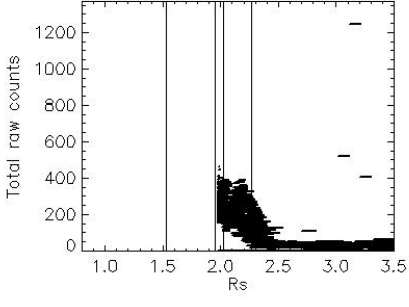
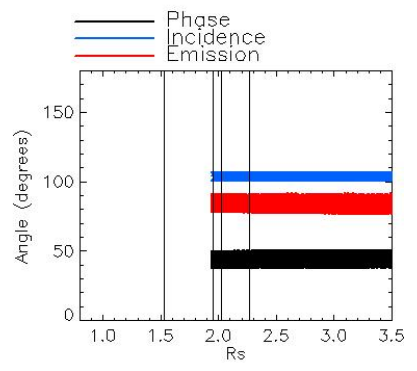
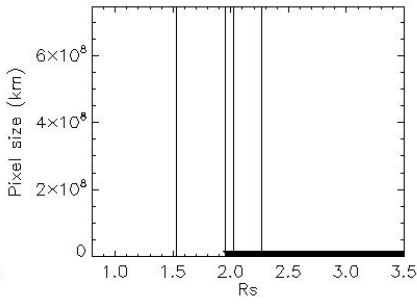
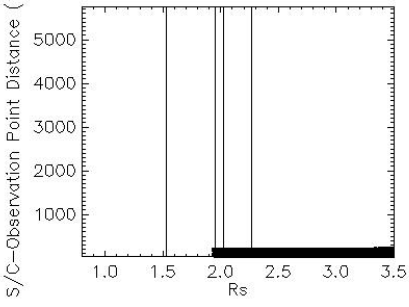


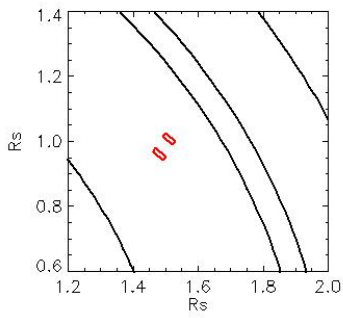
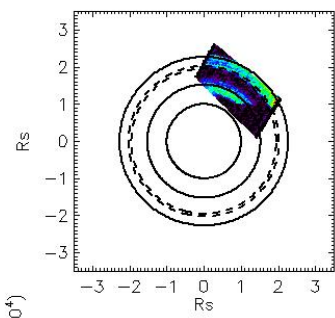
Observation Name:
UVS_037RLRPXMOVIE001_VIMS

Observation Date:
2007_017_22_13_51

Observation Duration:
18900 S

Integration time = 300 S



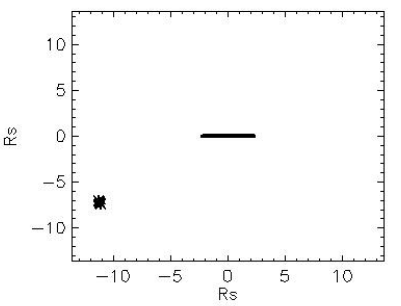
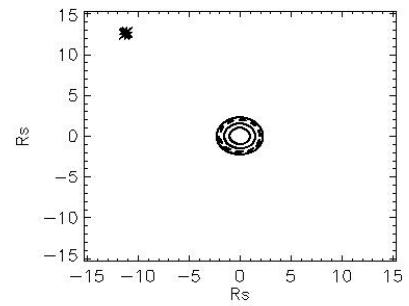
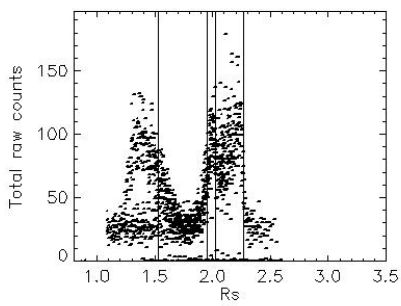
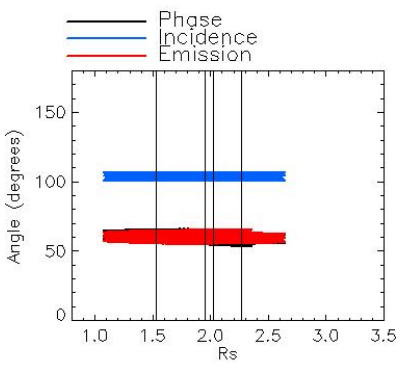
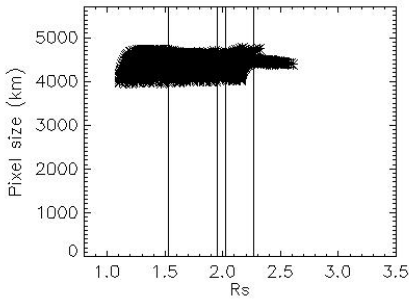
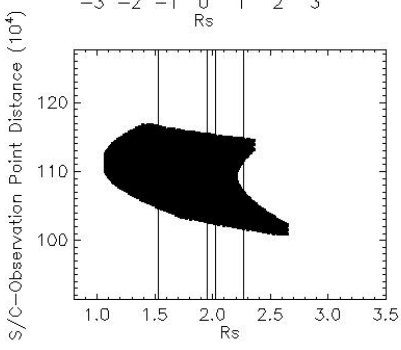


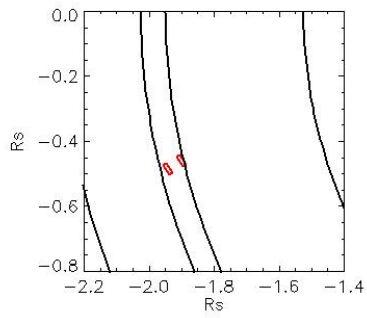
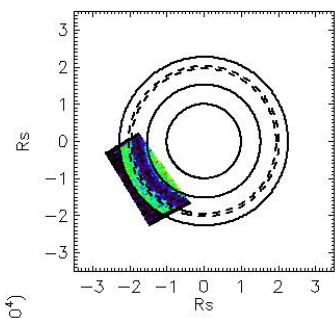
Observation Name:
UVS_037RLTEMPU28MP001_CIRS

Observation Date:
2007_018_22_14_50

Observation Duration:
6300 S

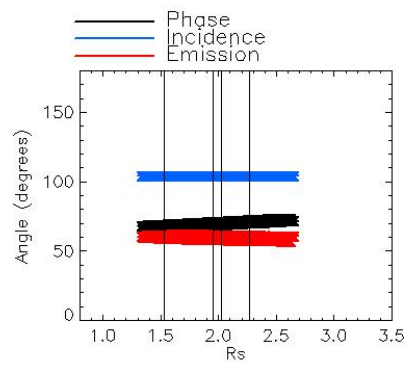
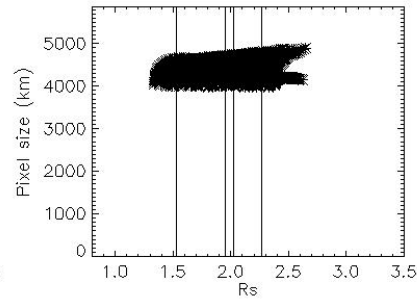
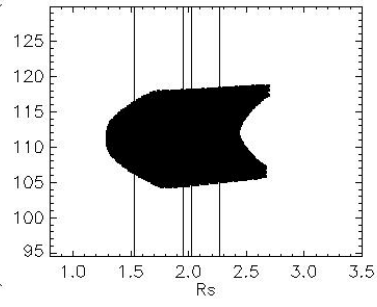
Integration time = 300 S



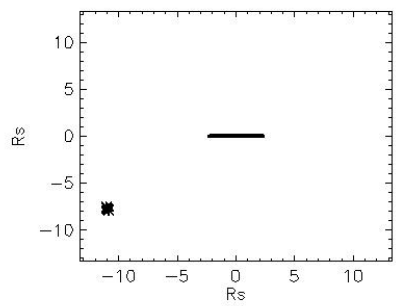
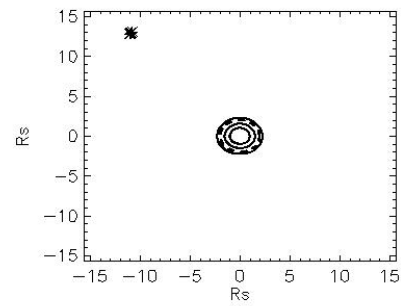
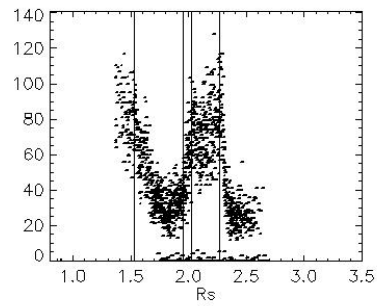


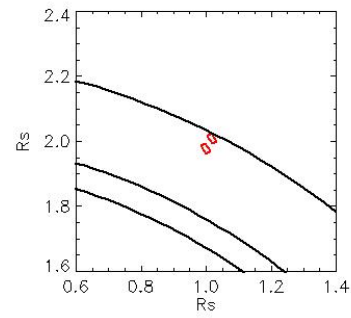
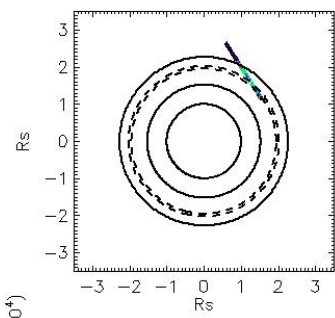
Observation Name:
 UVS_037RLTEMPU28MP001_CIRS
 Observation Date:
 2007_019_00_05_50
 Observation Duration:
 6300 S
 Integration time = 300 S

S/C—Observation Point Distance (10^4)

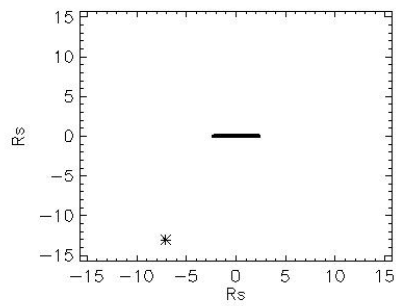
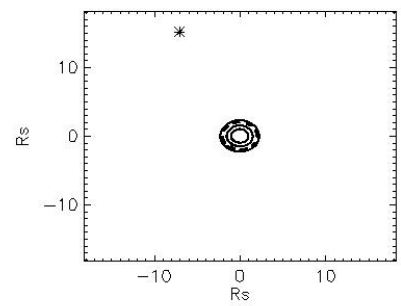
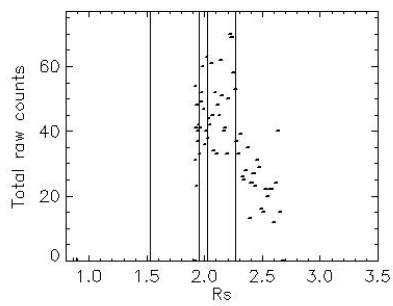
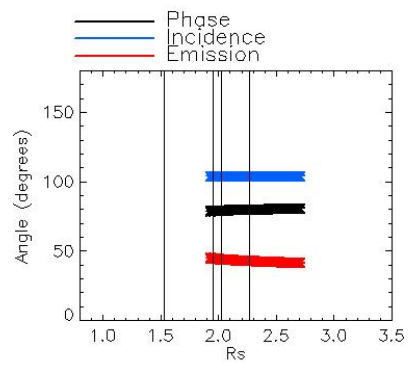
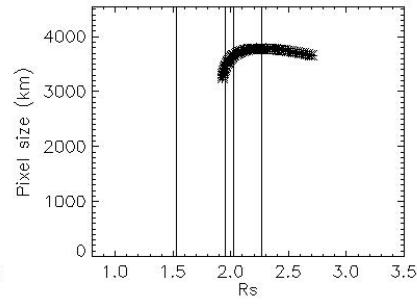
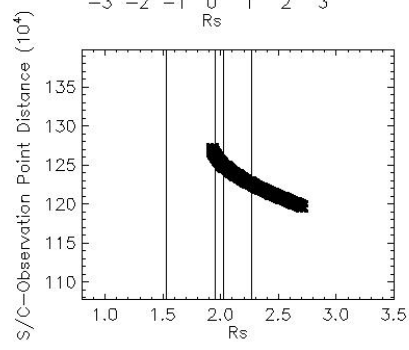


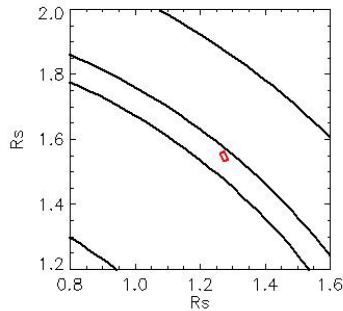
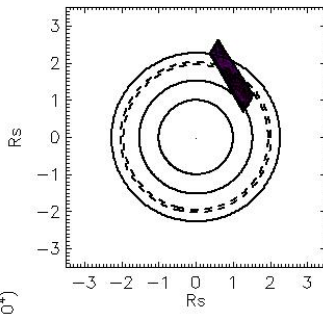
Total raw counts





Observation Name:
 UVS_037RLSUBMU45MP001_CIRS
 Observation Date:
 2007_019_21_30_51
 Observation Duration:
 300 S
 Integration time = 300 S



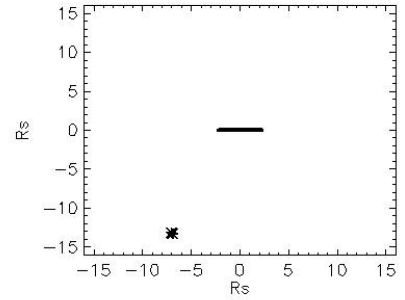
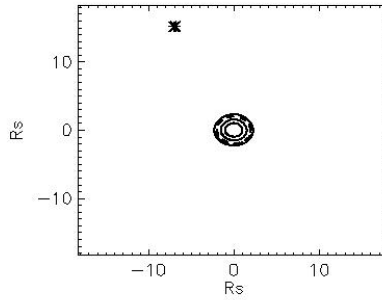
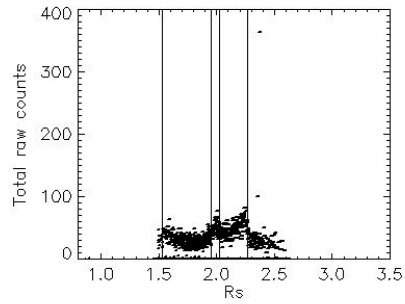
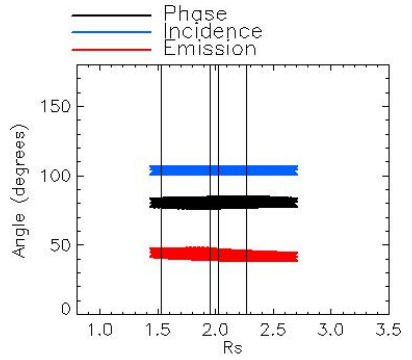
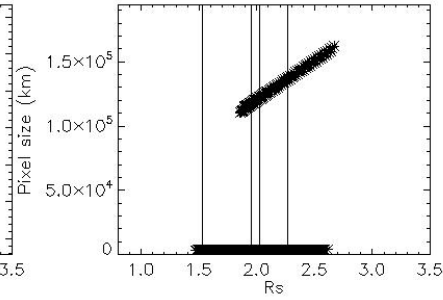
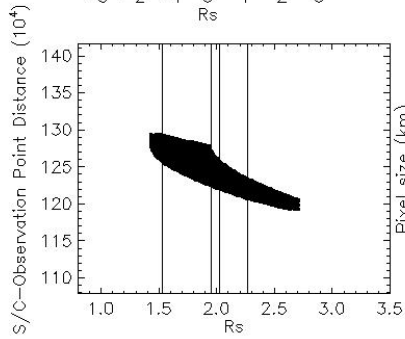


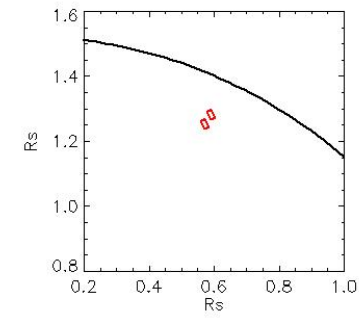
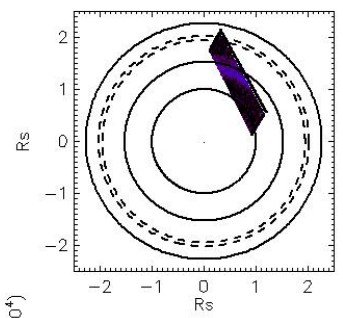
Observation Name:
UVS_037RLSUBMU45MP001_CIRS

Observation Date:
2007_019_21_35_51

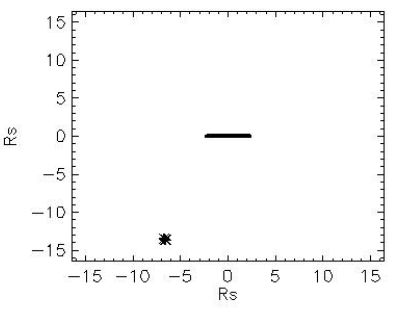
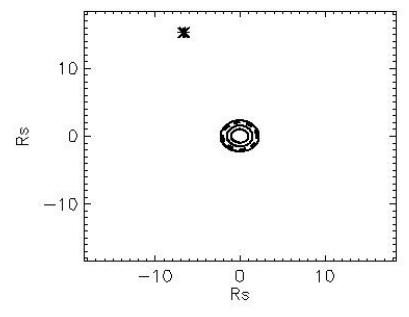
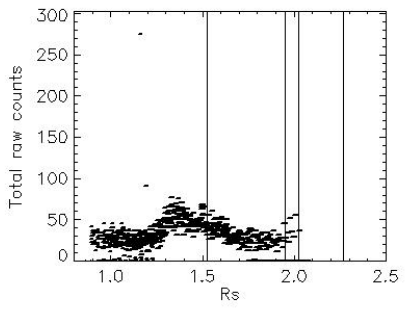
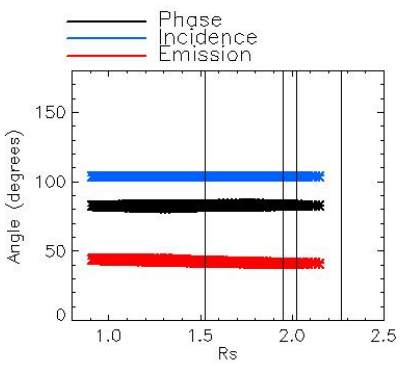
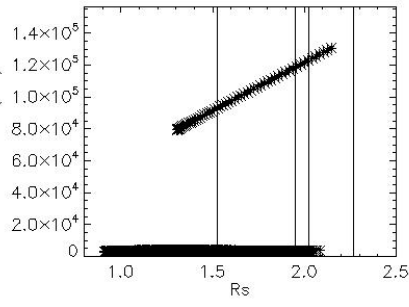
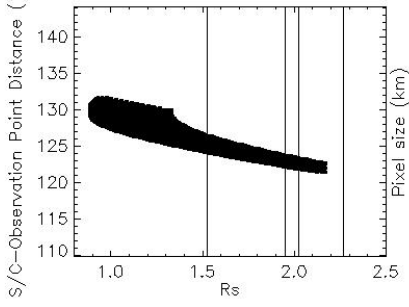
Observation Duration:
3900 S

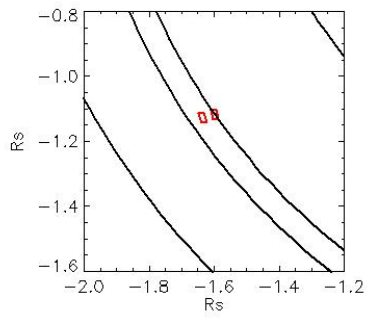
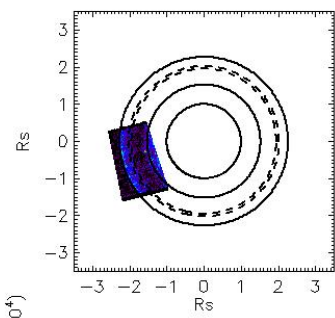
Integration time = 300 S





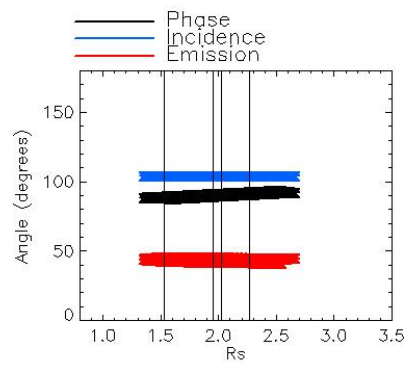
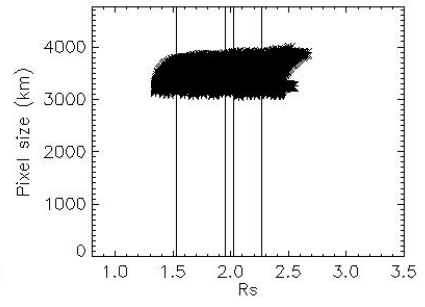
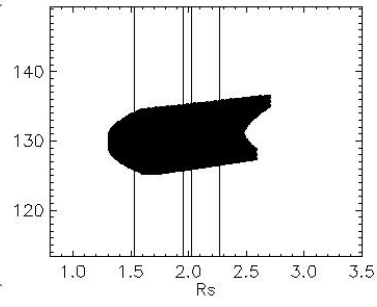
Observation Name:
 UVS_037RLSUBMU45MP001_CIRS
 Observation Date:
 2007_019_23_00_51
 Observation Duration:
 3900 S
 Integration time = 300 S



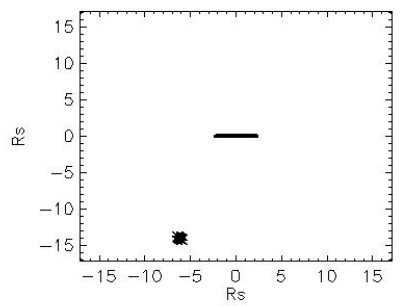
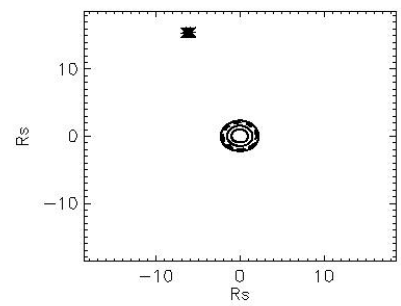
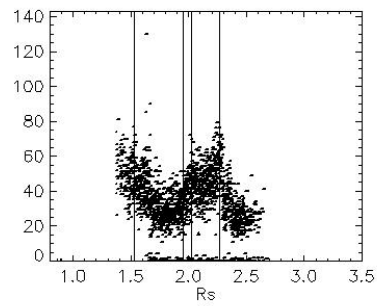


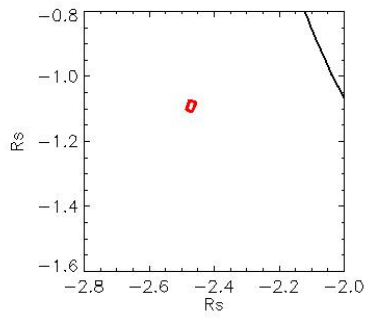
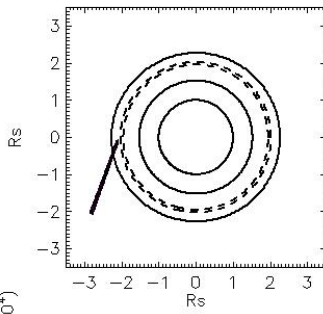
Observation Name:
 UVS_037RLSUBMU45MP001_CIRS
 Observation Date:
 2007_020_00_15_51
 Observation Duration:
 9300 S
 Integration time = 300 S

S/C—Observation Point Distance (10^4)



Total raw counts



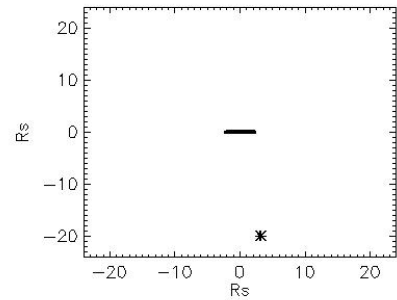
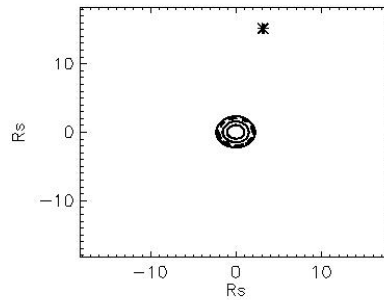
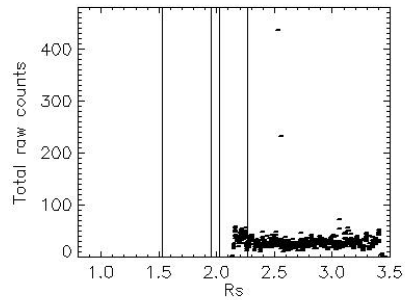
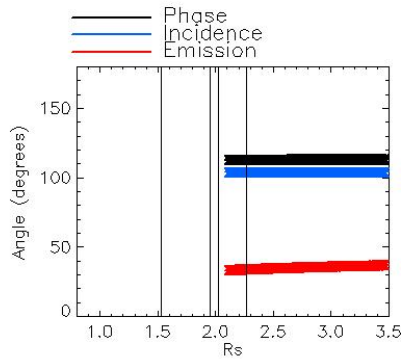
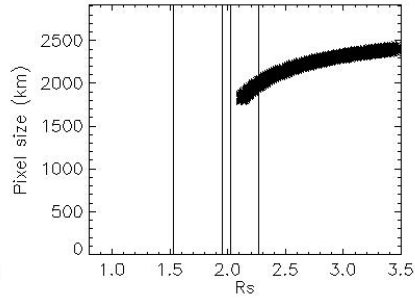
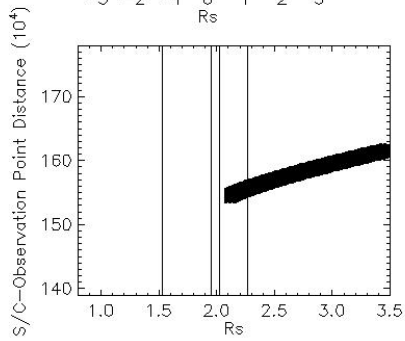


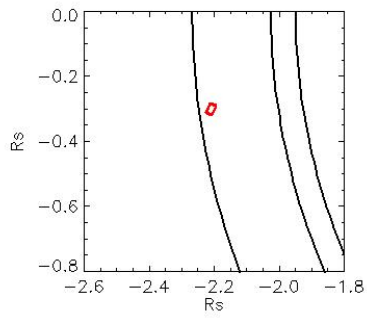
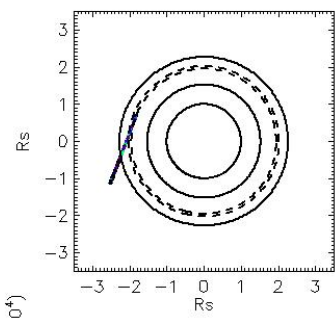
Observation Name:
UVIS_037RLAPOMOSAIC004_VIMS

Observation Date:
2007_021_13_10_32

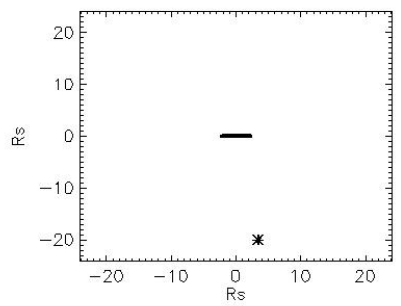
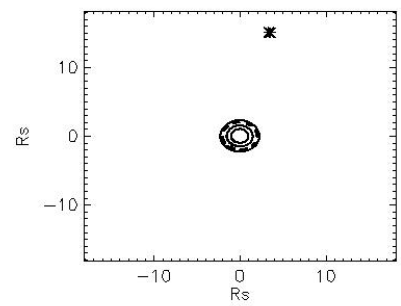
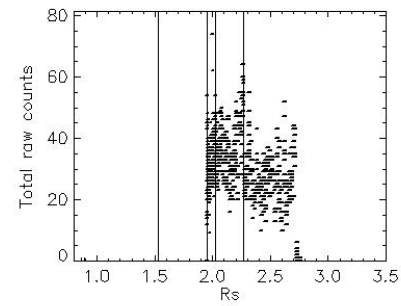
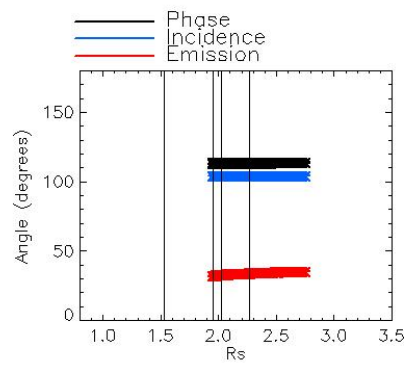
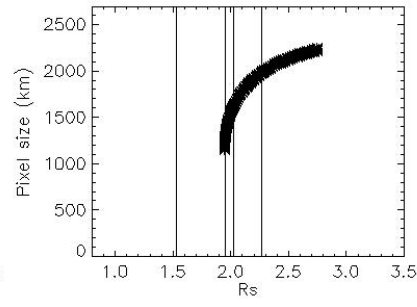
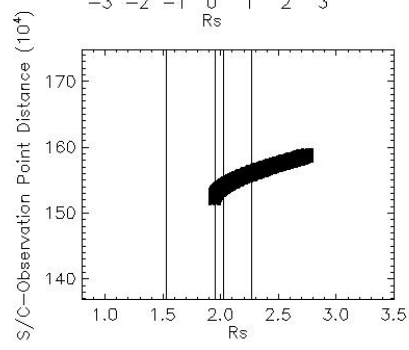
Observation Duration:
3300 S

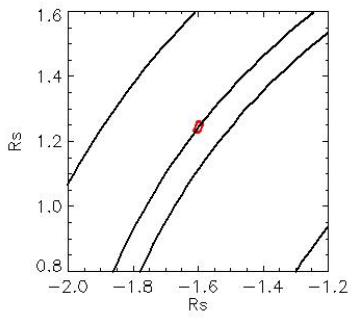
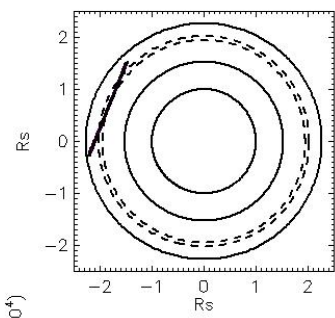
Integration time = 300 S





Observation Name:
 UVS_037RLAPOMOSAIC004_VIMS
 Observation Date:
 2007_021_14_08_46
 Observation Duration:
 3300 S
 Integration time = 300 S



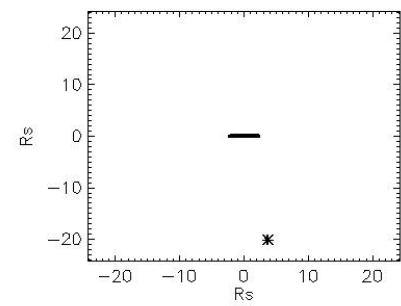
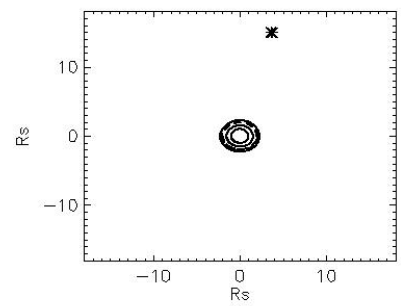
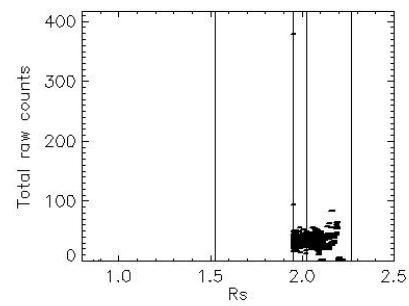
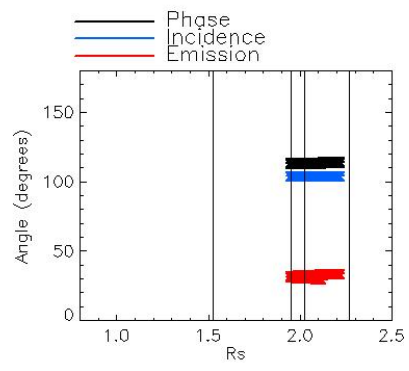
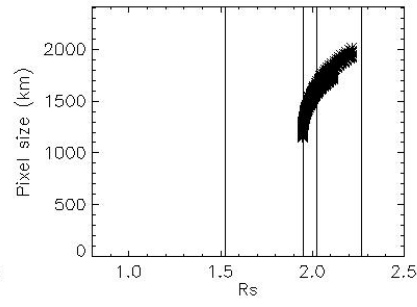
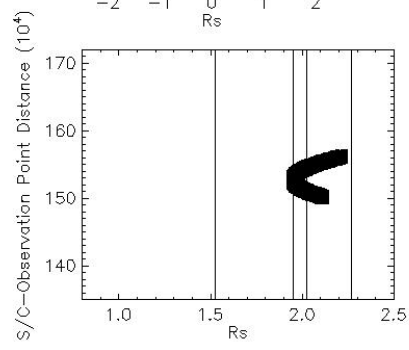


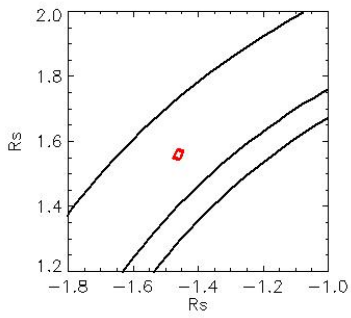
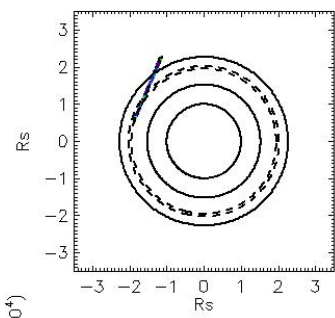
Observation Name:
UVIS_037RLAPOMOSAIC004_VIMS

Observation Date:
2007_021_15_07_00

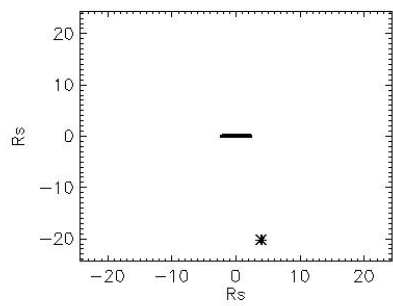
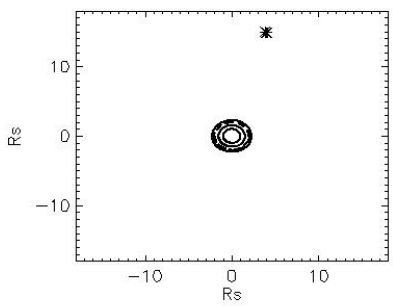
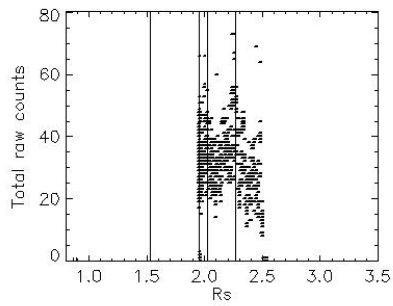
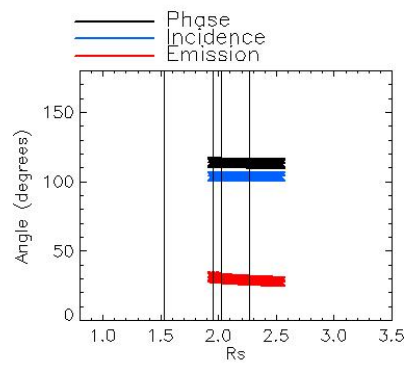
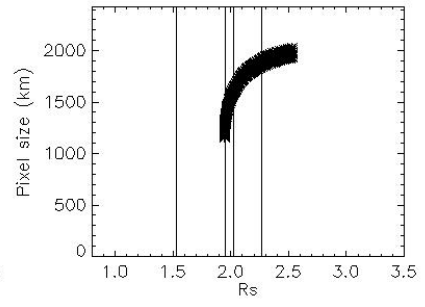
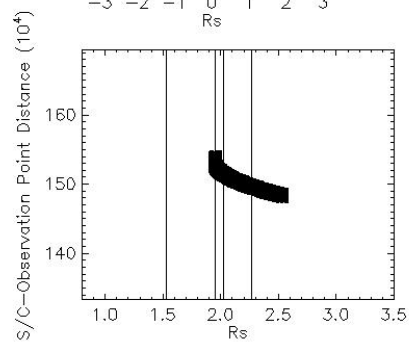
Observation Duration:
3300 S

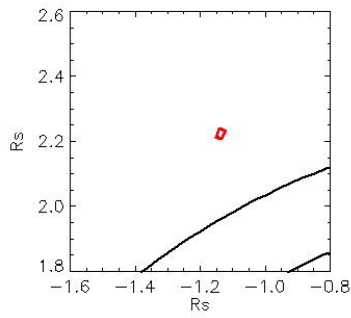
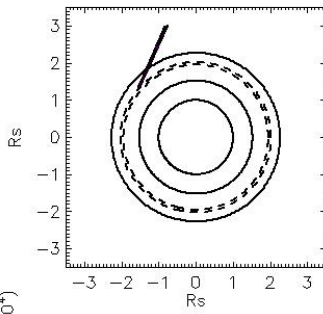
Integration time = 300 S





Observation Name:
 UVS_037RLAPOMOSAIC004_VIMS
 Observation Date:
 2007_021_16_05_14
 Observation Duration:
 3300 S
 Integration time = 300 S



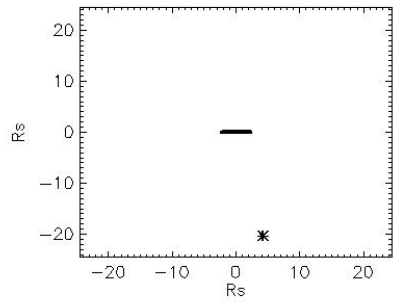
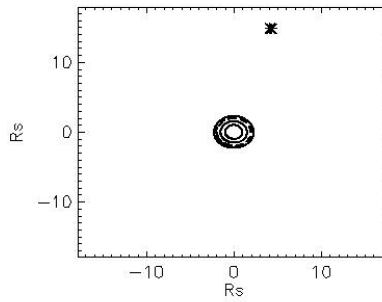
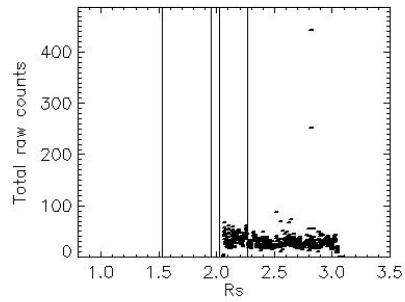
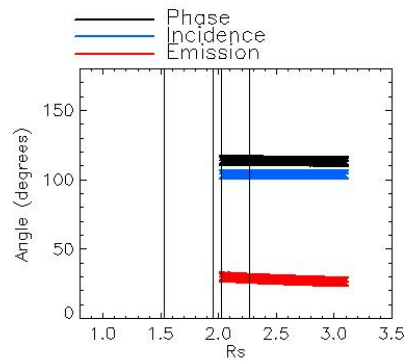
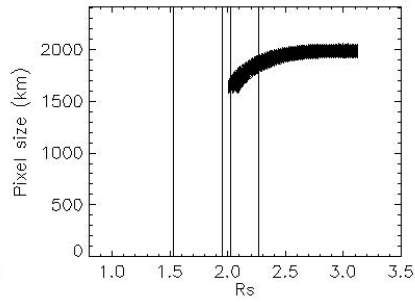
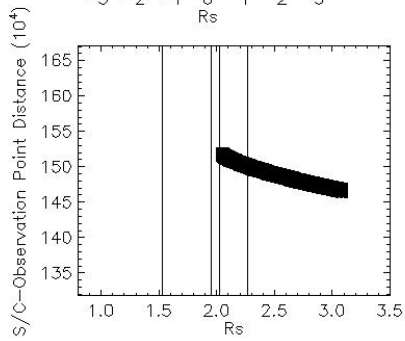


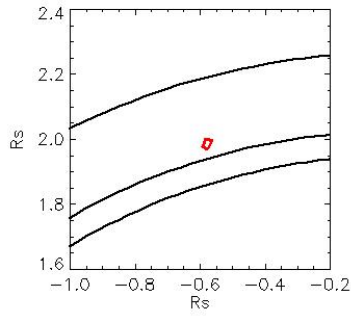
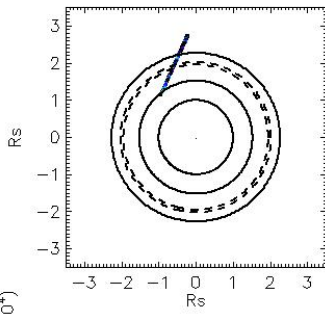
Observation Name:
UVIS_037RLAPOMOSAIC004_VIMS

Observation Date:
2007_021_17_03_28

Observation Duration:
3300 S

Integration time = 300 S



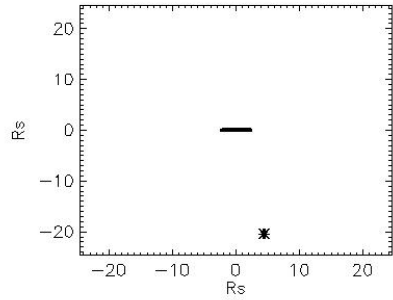
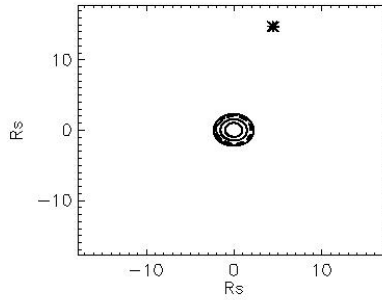
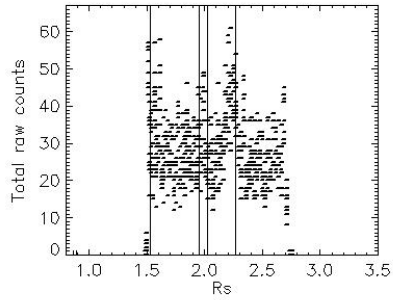
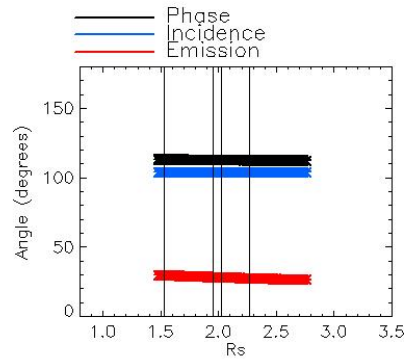
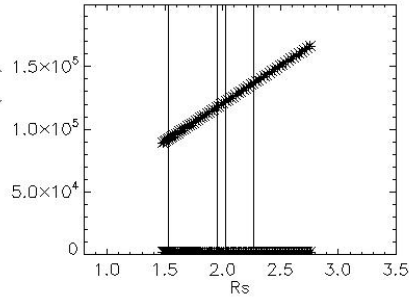
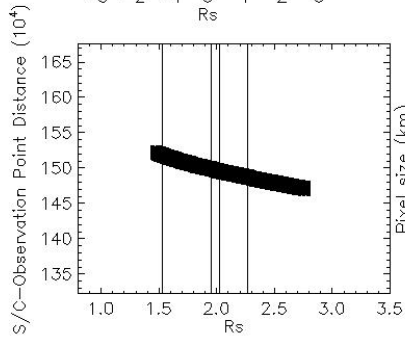


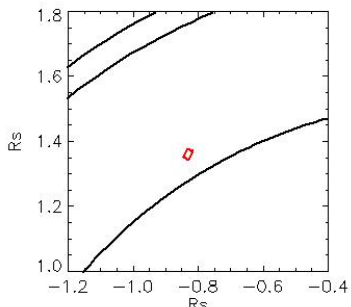
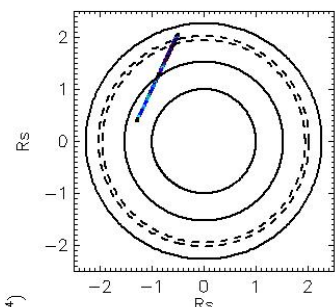
Observation Name:
UVIS_037RLAPOMOSAIC004_VIMS

Observation Date:
2007_021_18_00_56

Observation Duration:
3300 S

Integration time = 300 S



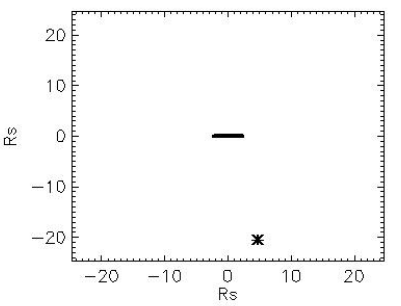
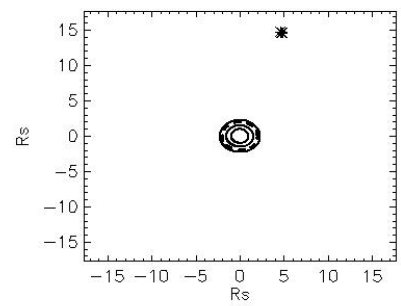
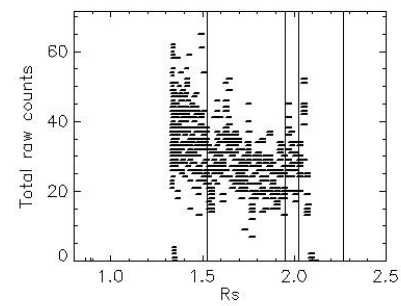
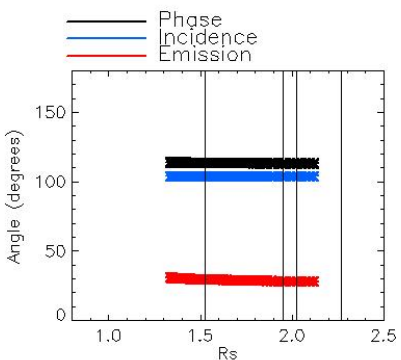
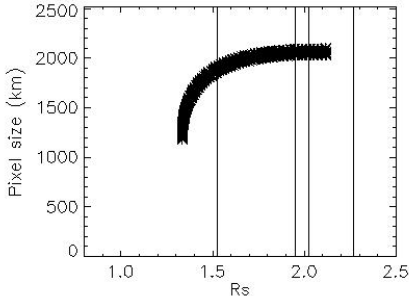
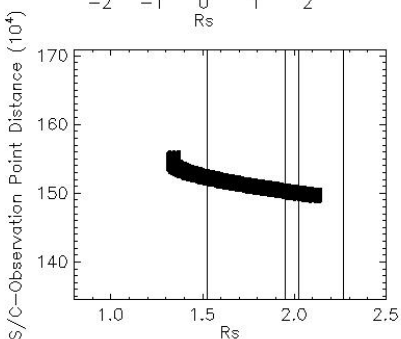


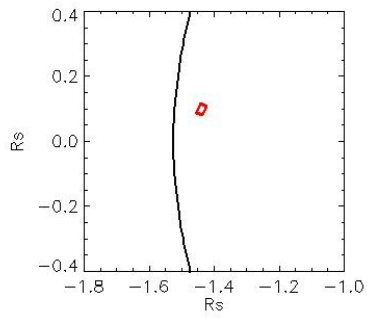
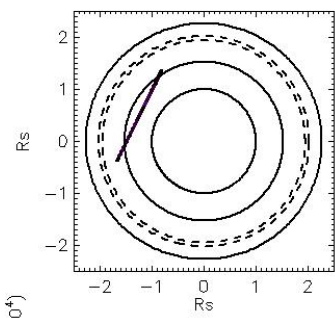
Observation Name:
UVIS_037RLAPOMOSAIC004_VIMS

Observation Date:
2007_021_18_59_10

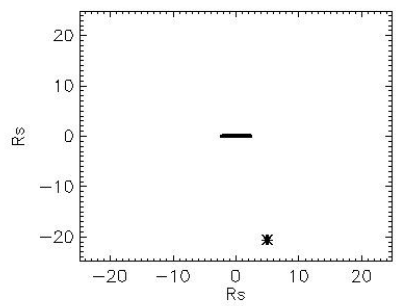
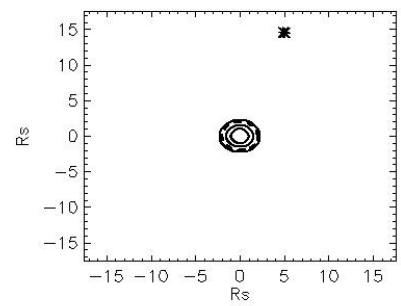
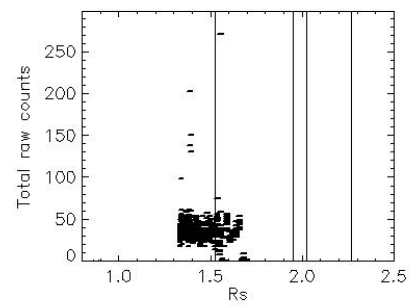
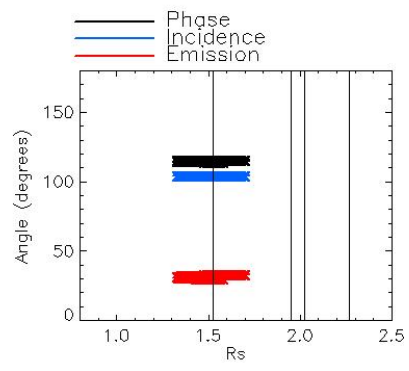
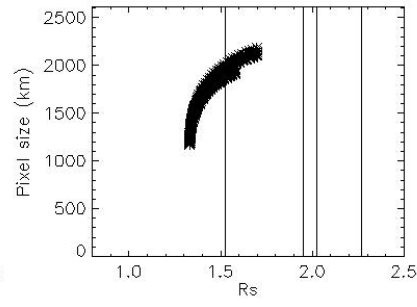
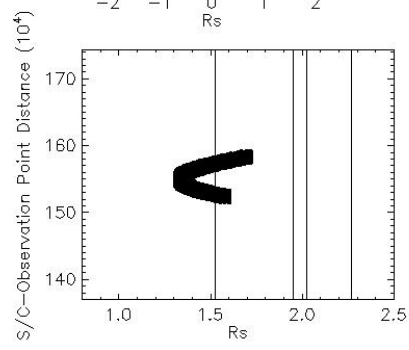
Observation Duration:
3300 S

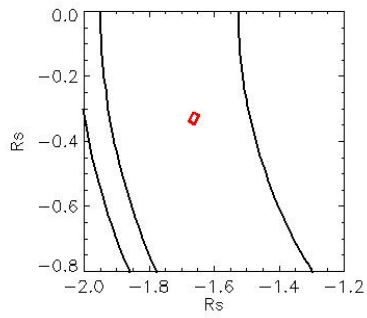
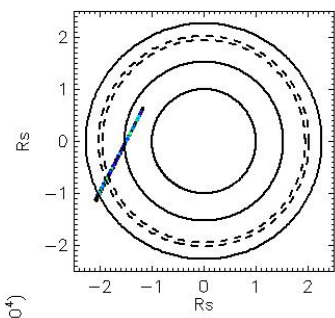
Integration time = 300 S



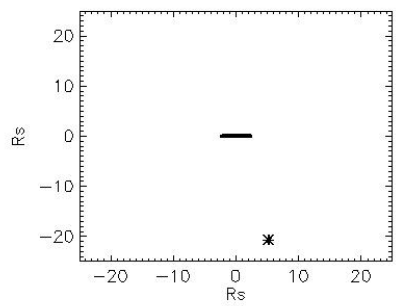
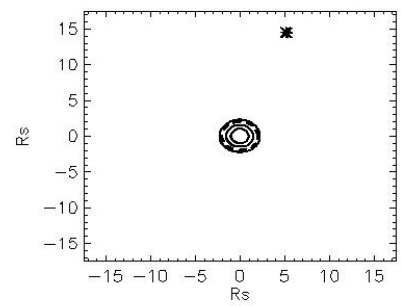
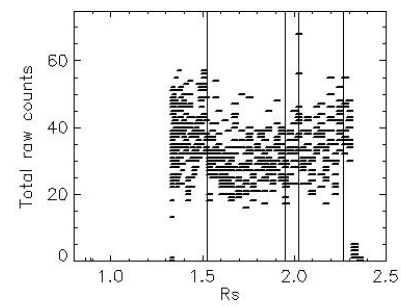
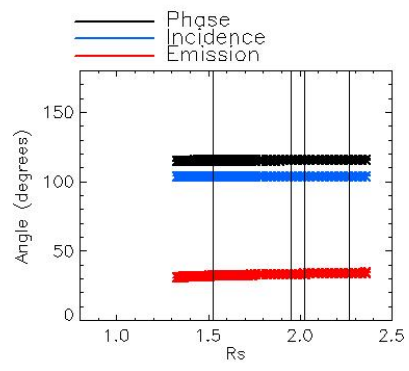
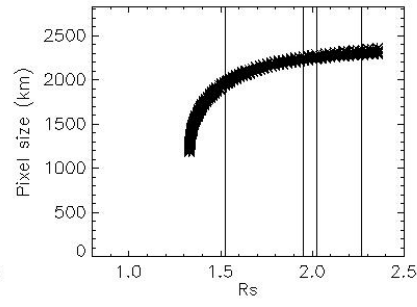
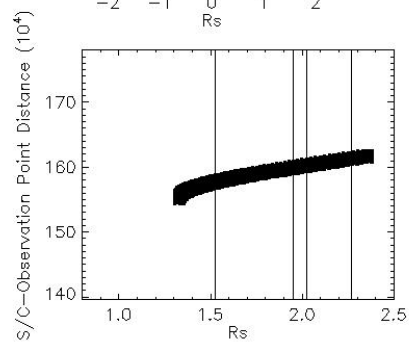


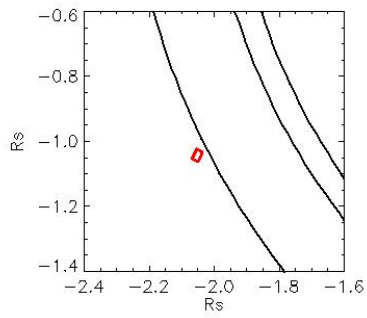
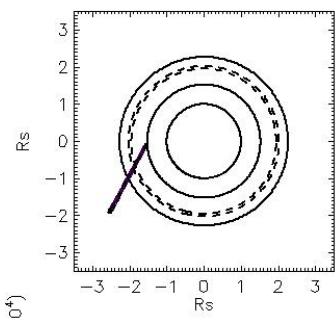
Observation Name:
 UVS_037RLAPOMOSAIC004_VIMS
 Observation Date:
 2007_021_19_57_24
 Observation Duration:
 3300 S
 Integration time = 300 S



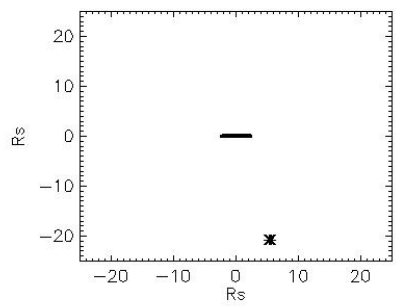
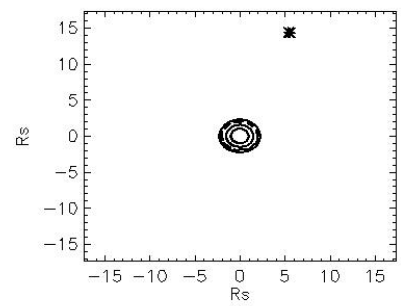
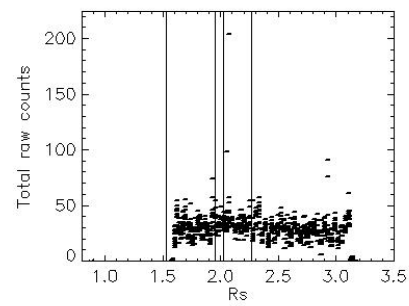
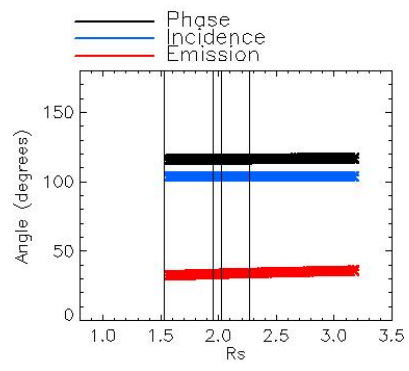
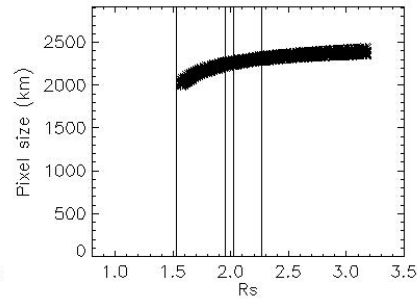
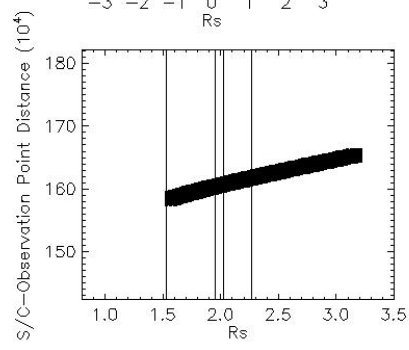


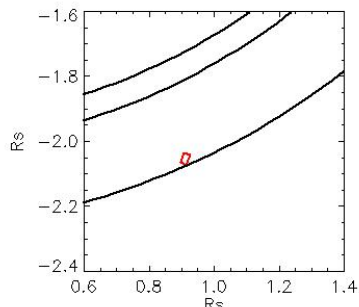
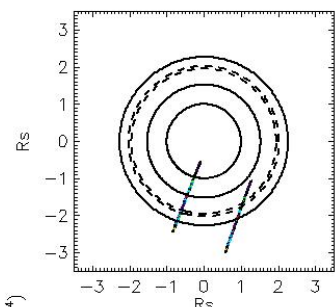
Observation Name:
 UVS_037RLAPOMOSAIC004_VIMS
 Observation Date:
 2007_021_20_55_38
 Observation Duration:
 3300 S
 Integration time = 300 S



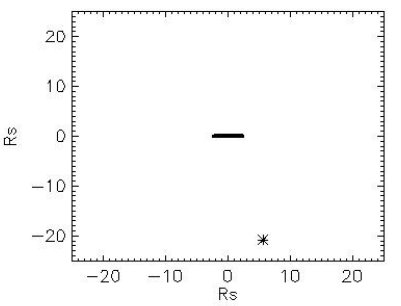
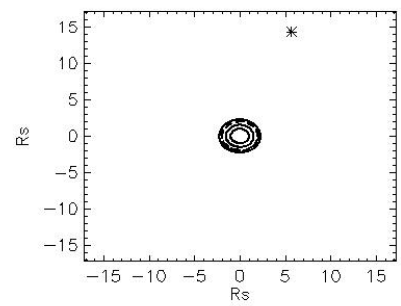
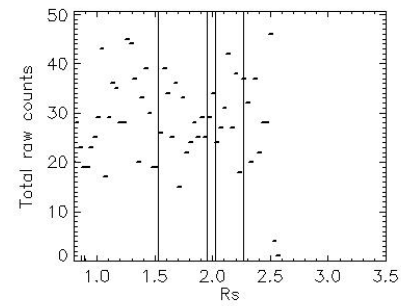
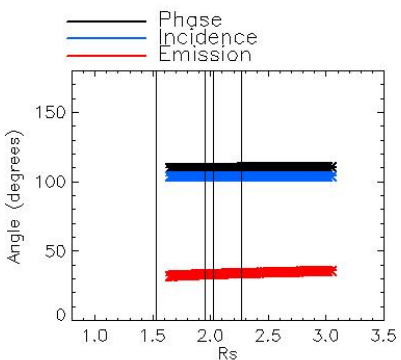
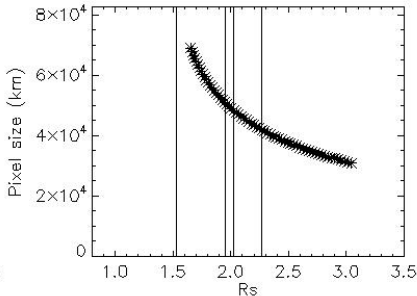
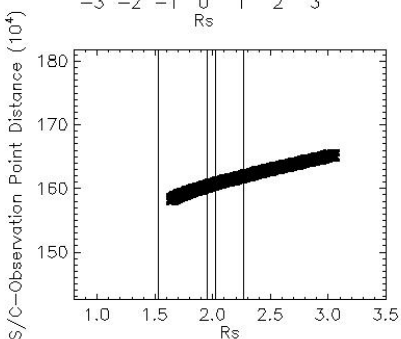


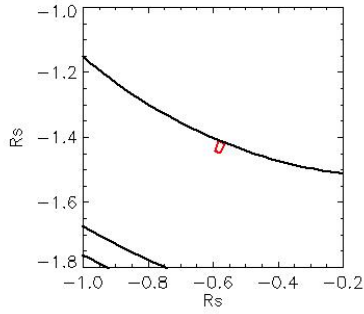
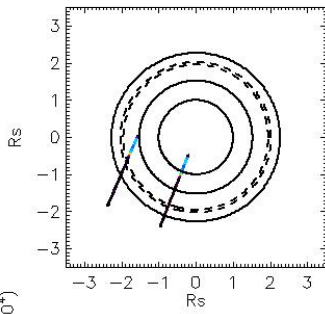
Observation Name:
 UVS_037RLAPOMOSAIC004_VIMS
 Observation Date:
 2007_021_21_53_52
 Observation Duration:
 3900 S
 Integration time = 300 S





Observation Name:
 UVS_037RLWNPLUNLT001_LJSS
 Observation Date:
 2007_021_23_08_22
 Observation Duration:
 300 S
 Integration time = 300 S



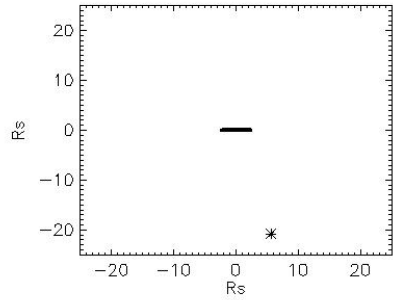
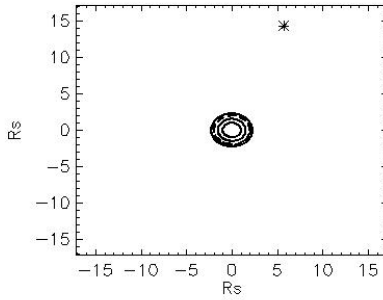
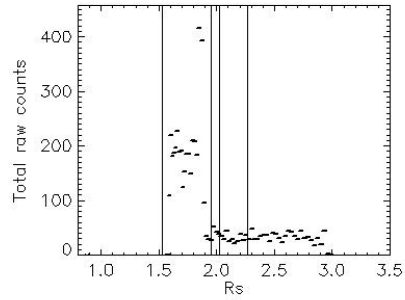
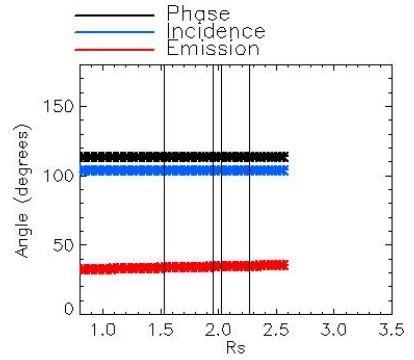
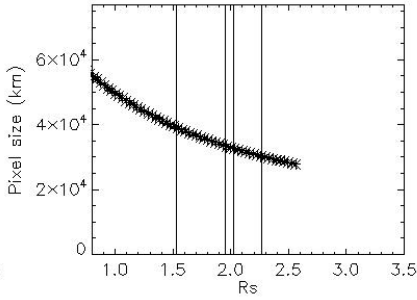
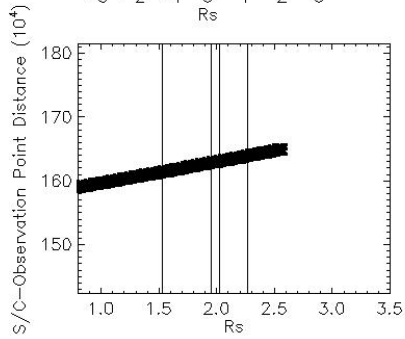


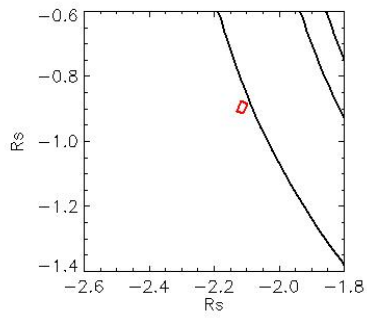
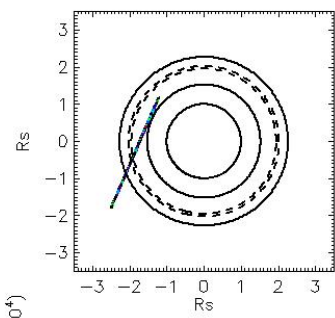
Observation Name:
UMS_037RLWNPLUNLT001_LJSS

Observation Date:
2007_021_23_13_50

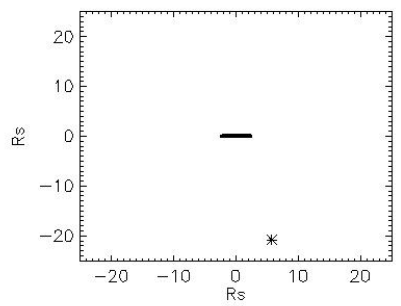
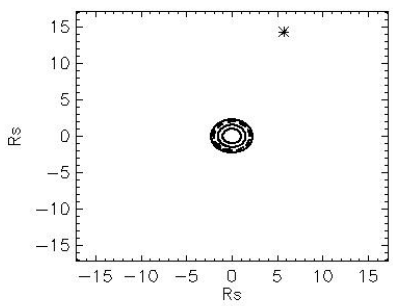
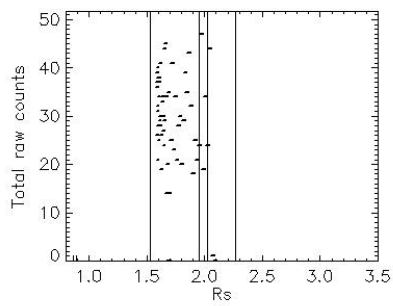
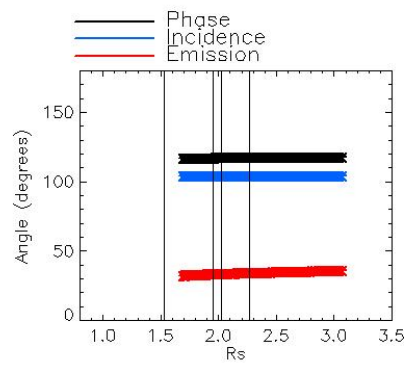
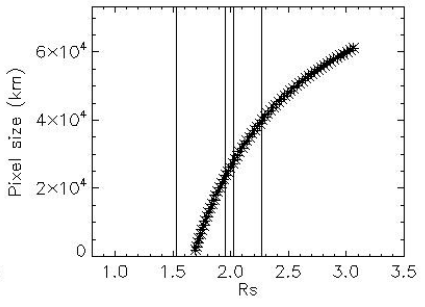
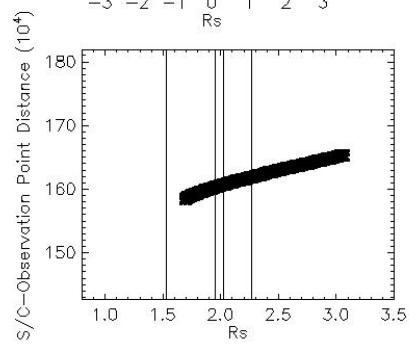
Observation Duration:
300 S

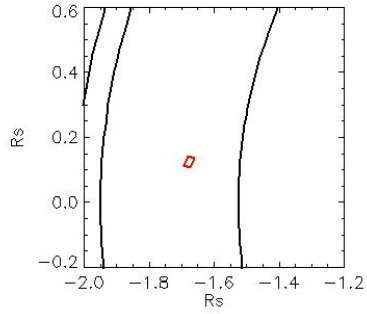
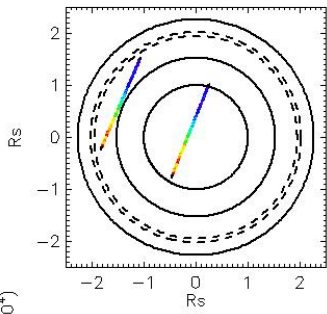
Integration time = 300 S





Observation Name:
 UVS_037RLWNPLUNLT001_LSS
 Observation Date:
 2007_021_23_19_18
 Observation Duration:
 300 S
 Integration time = 300 S



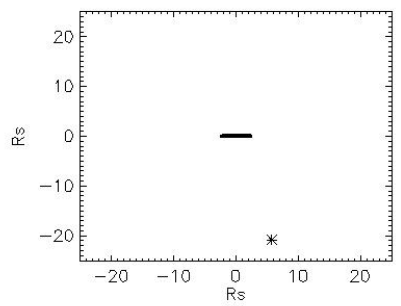
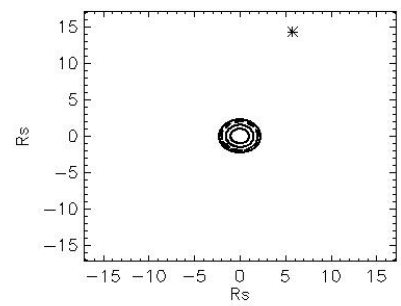
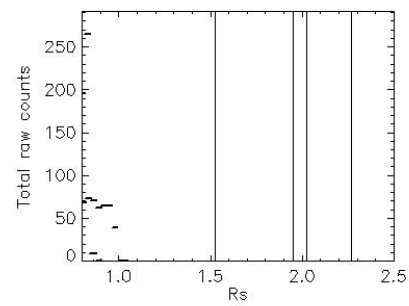
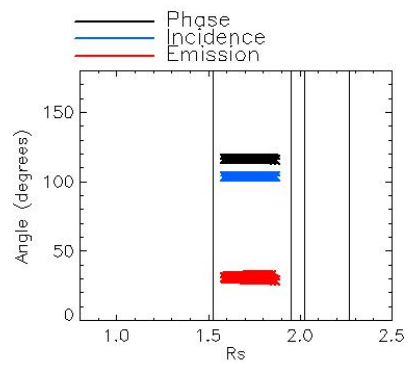
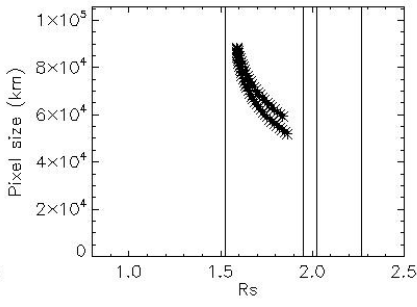
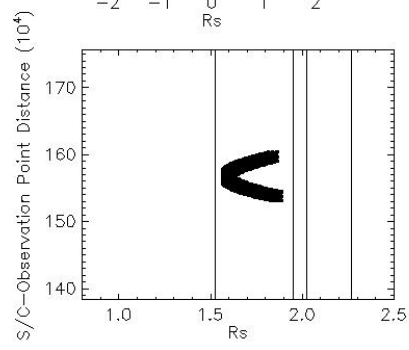


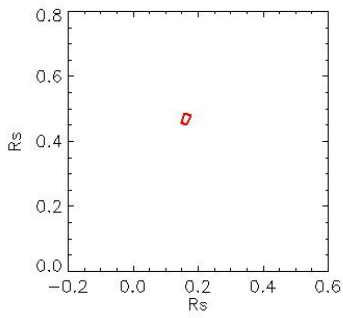
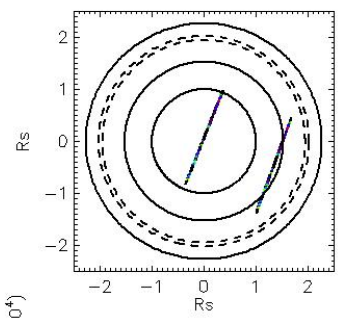
Observation Name:
UMS_037RLWNPLUNLT001_LSS

Observation Date:
2007_021_23_25_26

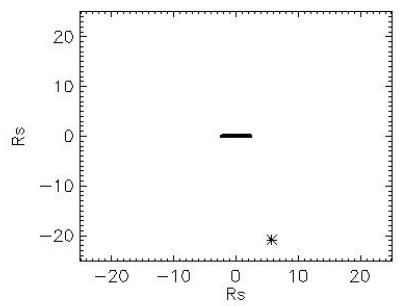
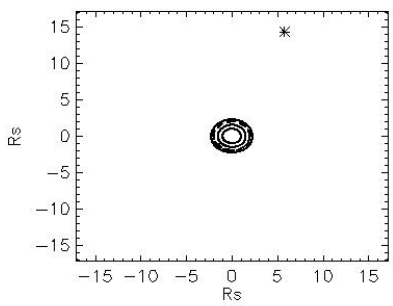
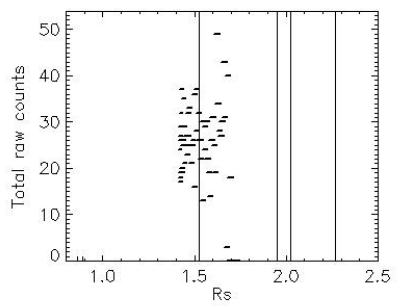
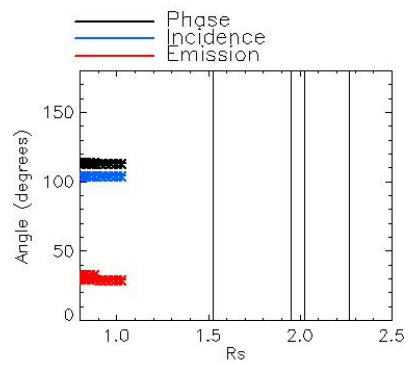
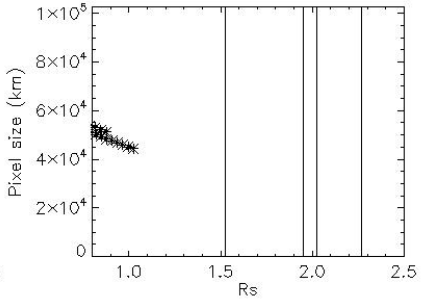
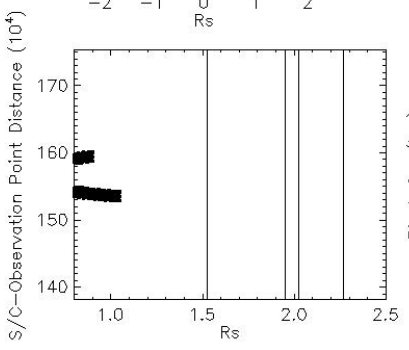
Observation Duration:
300 S

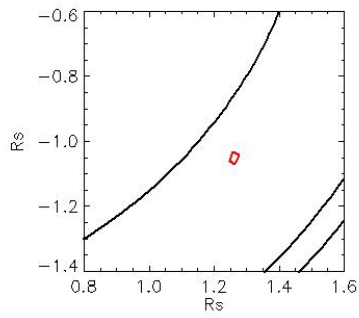
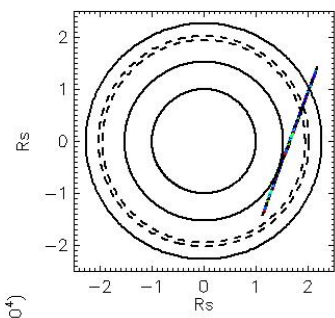
Integration time = 300 S





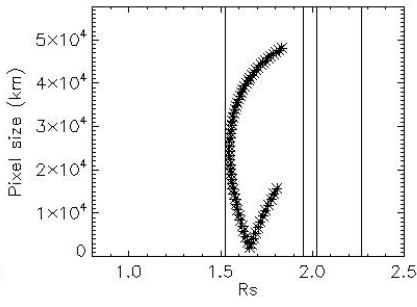
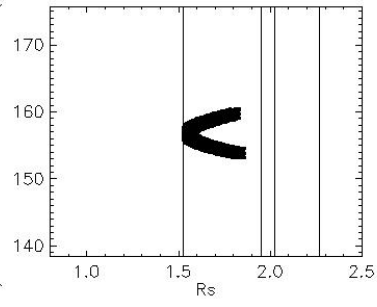
Observation Name:
 UVS_037RLWNPLUNLT001_ISS
 Observation Date:
 2007_021_23_30_54
 Observation Duration:
 300 S
 Integration time = 300 S



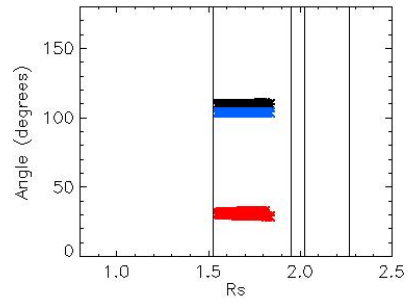


Observation Name:
 UVS_037RLWNPLUNLT001_LJSS
 Observation Date:
 2007_021_23_36_22
 Observation Duration:
 300 S
 Integration time = 300 S

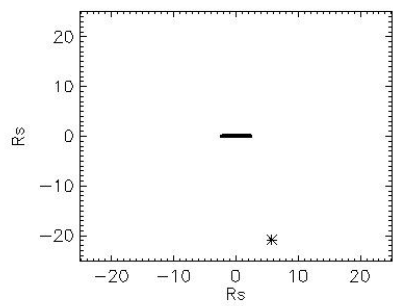
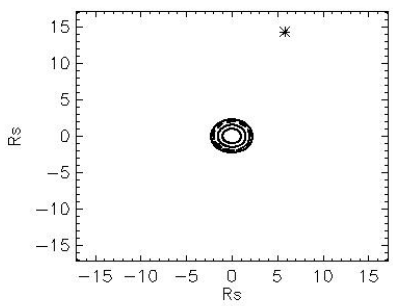
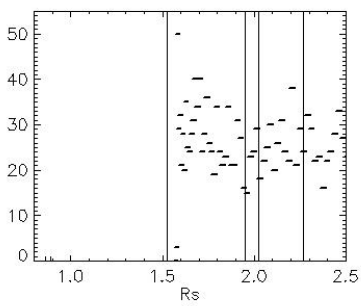
S/C—Observation Point Distance (10^4)

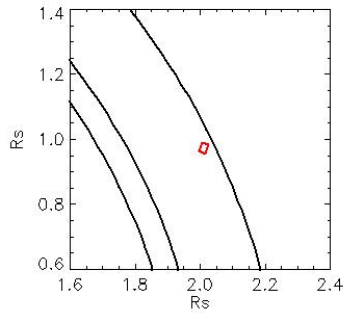
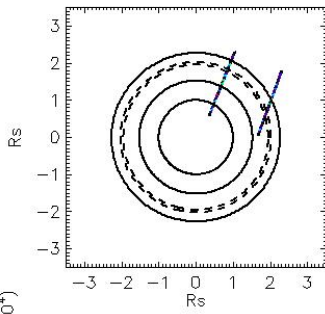


— Phase
 — Incidence
 — Emission



Total raw counts



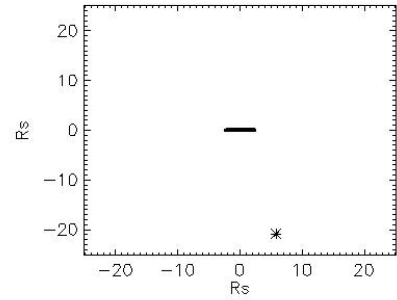
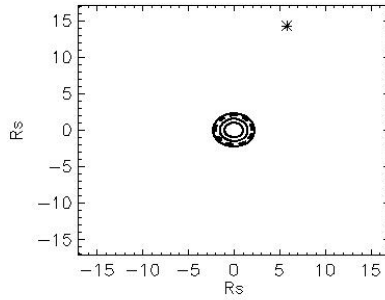
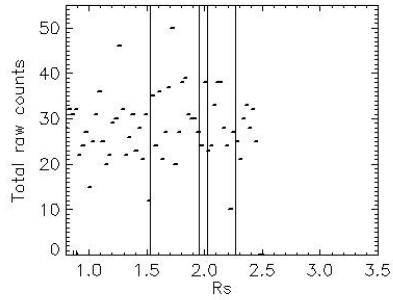
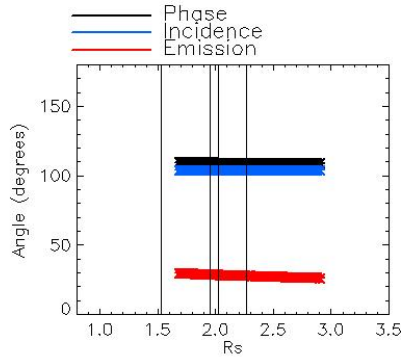
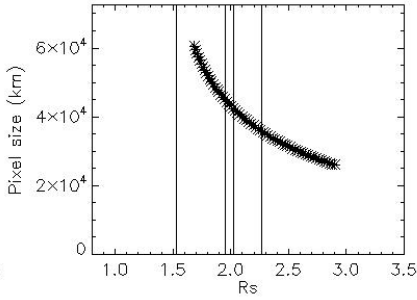
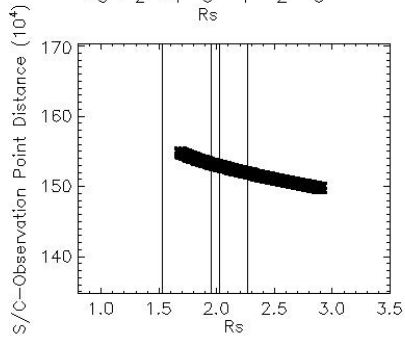


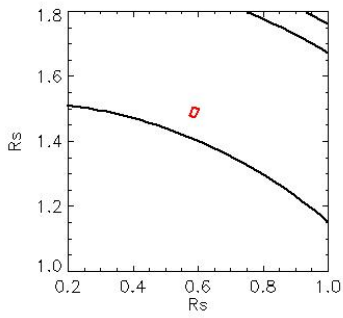
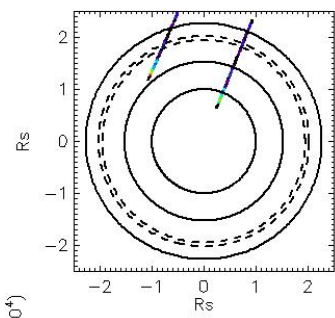
Observation Name:
UMS_037RLWNPLUNLT001_LSS

Observation Date:
2007_021_23_42_30

Observation Duration:
300 S

Integration time = 300 S



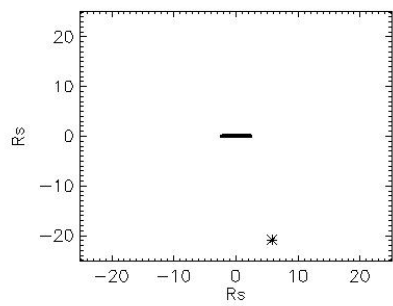
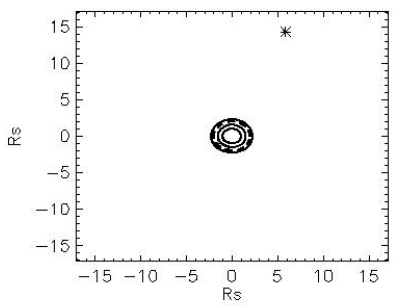
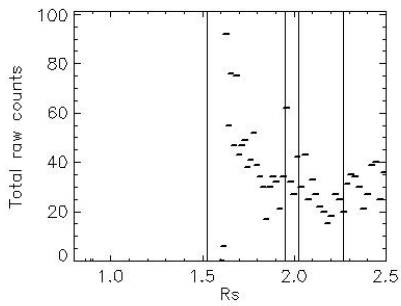
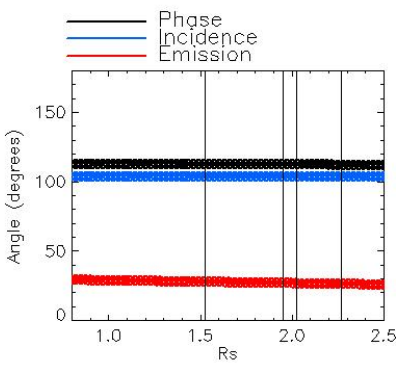
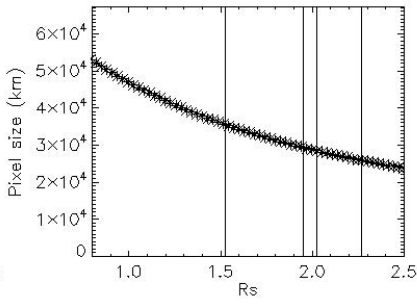
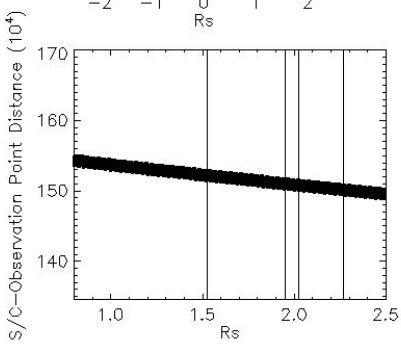


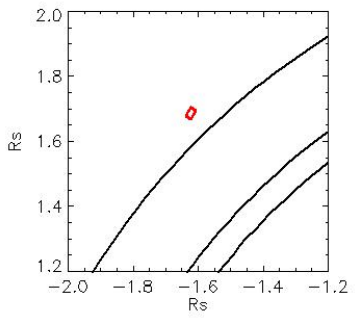
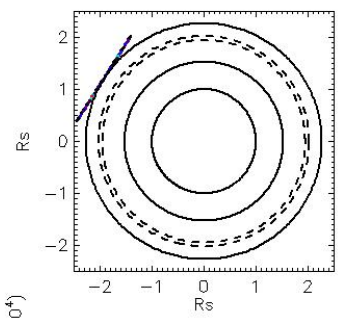
Observation Name:
UMS_037RLWNPLUNLT001_LSS

Observation Date:
2007_021_23_47_58

Observation Duration:
300 S

Integration time = 300 S



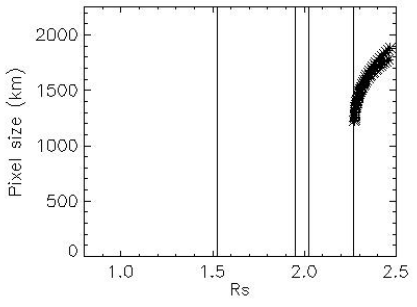
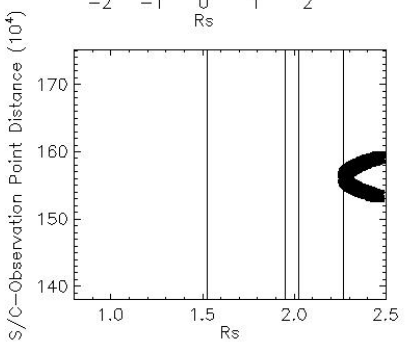


Observation Name:
UMS_037RLWNPLUNLT001_LSS

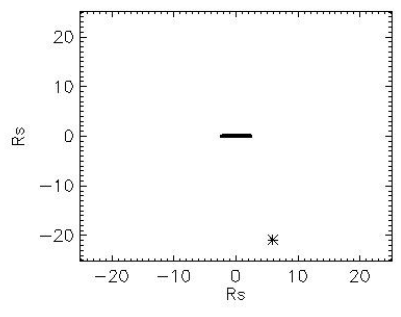
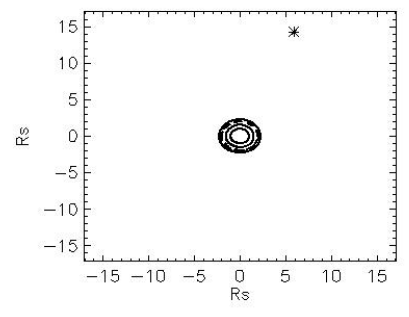
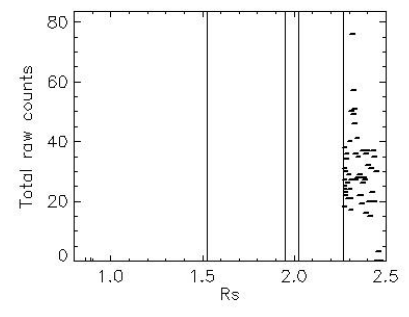
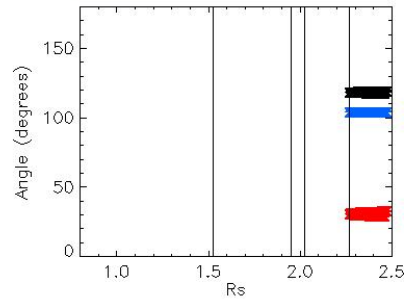
Observation Date:
2007_022_00_01_22

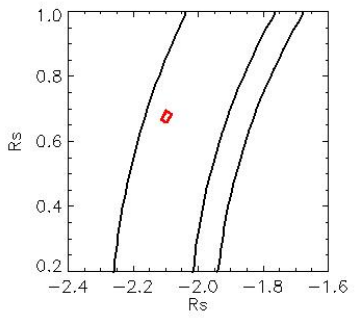
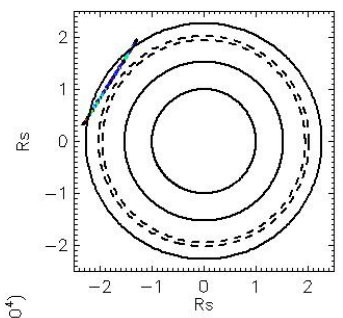
Observation Duration:
300 S

Integration time = 300 S



— Phase
— Incidence
— Emission



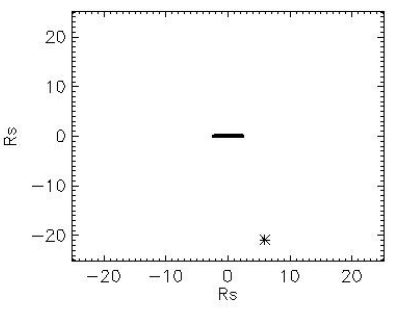
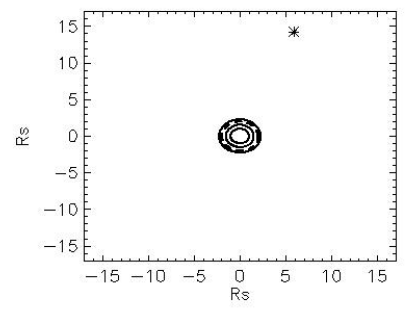
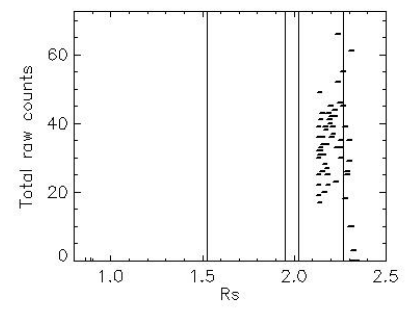
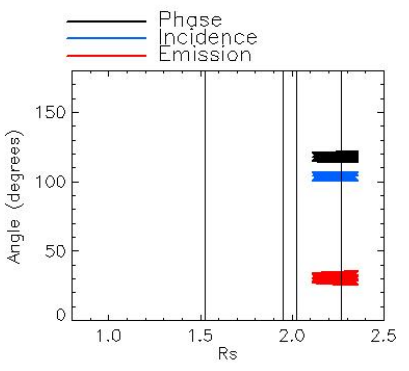
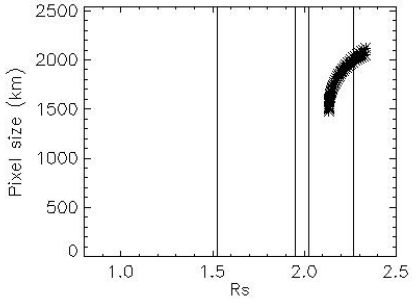
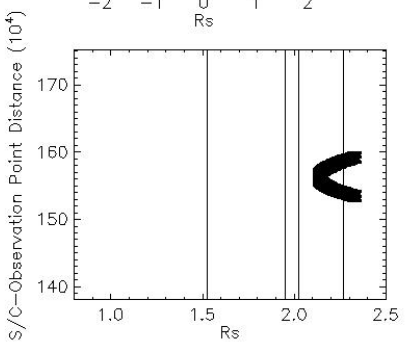


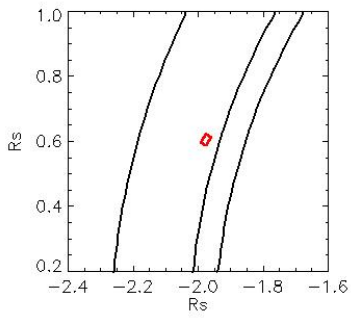
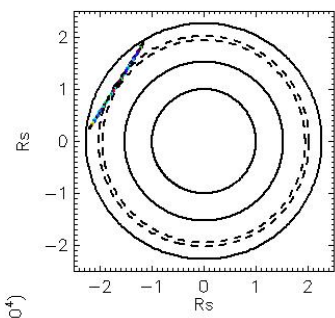
Observation Name:
UMS_037RLWNPLUNLT001_LSS

Observation Date:
2007_022_00_09_16

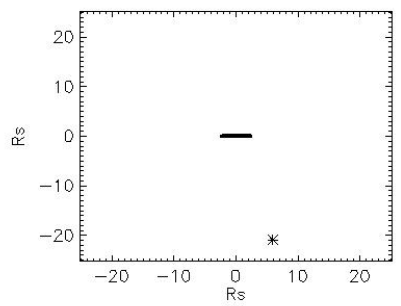
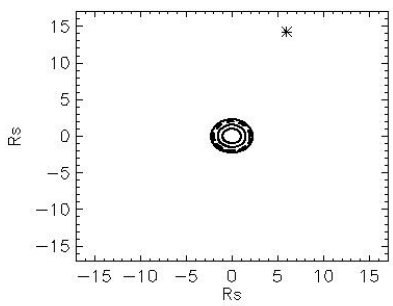
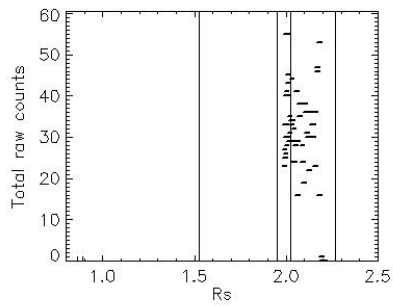
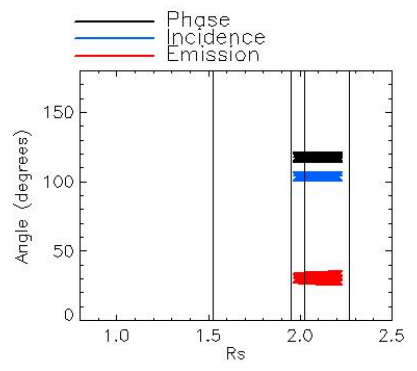
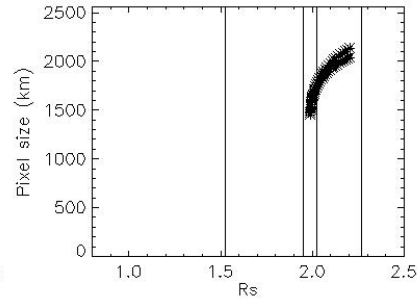
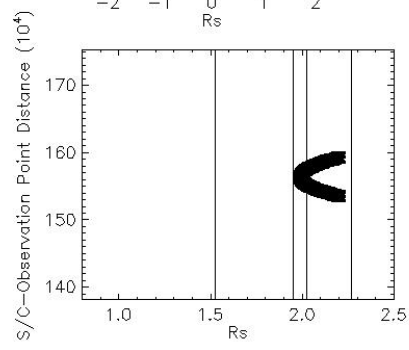
Observation Duration:
300 S

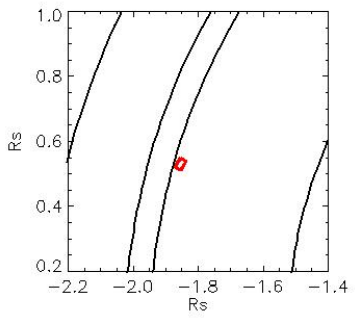
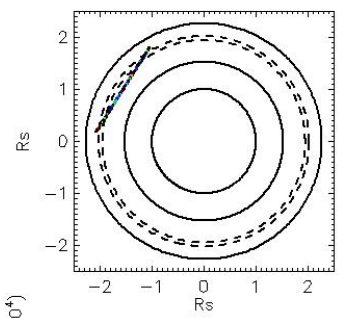
Integration time = 300 S





Observation Name:
 UVS_037RLWNPLUNLT001_ISS
 Observation Date:
 2007_022_00_17_10
 Observation Duration:
 300 S
 Integration time = 300 S



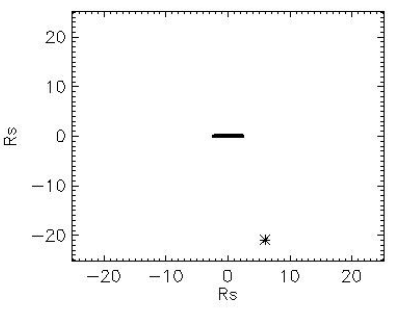
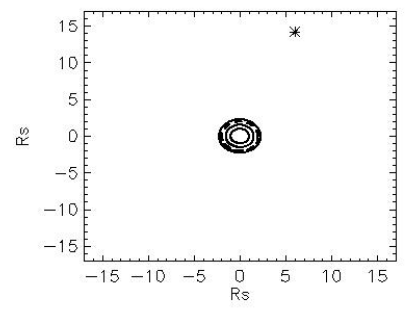
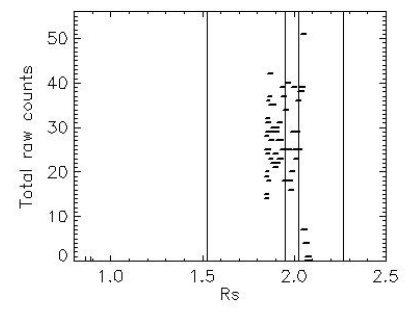
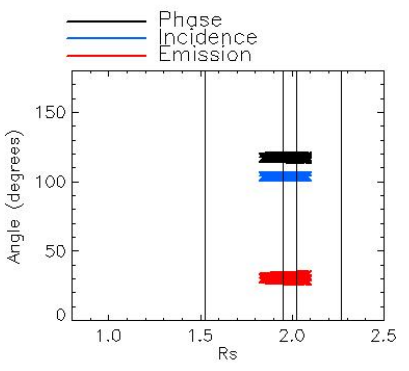
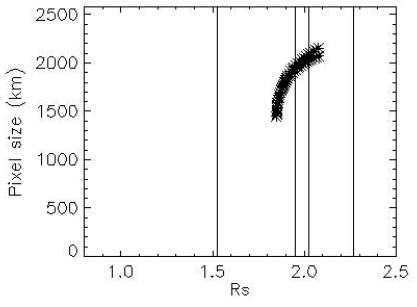
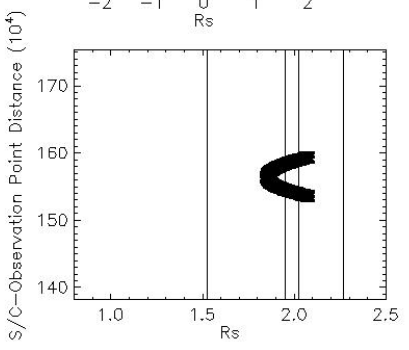


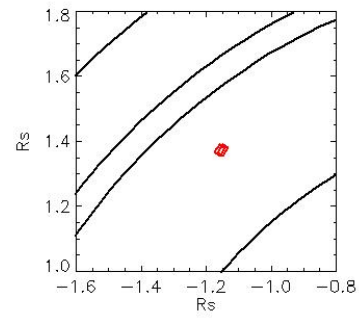
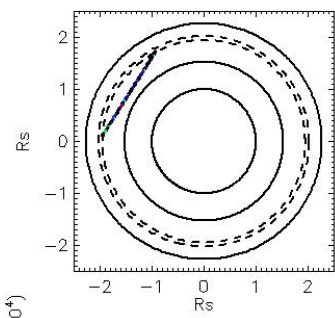
Observation Name:
UMS_037RLWNPLUNLT001_LJSS

Observation Date:
2007_022_00_25_04

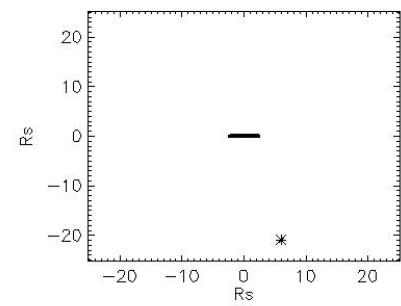
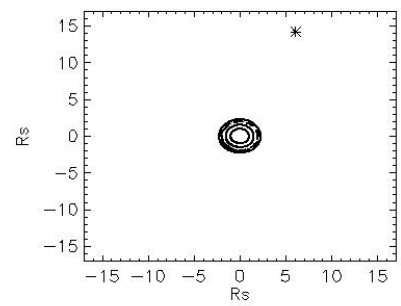
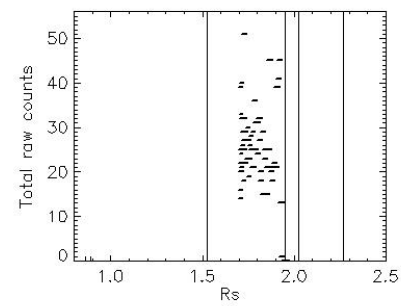
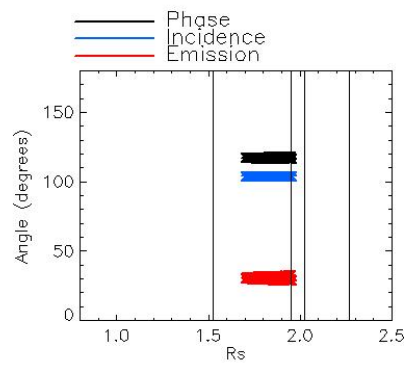
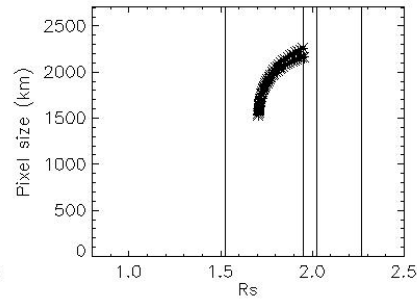
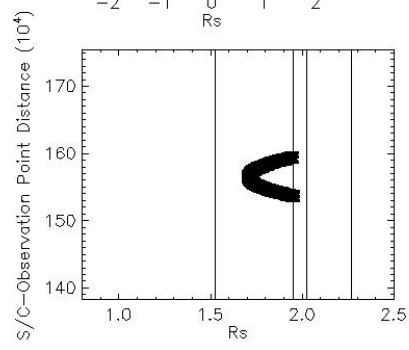
Observation Duration:
300 S

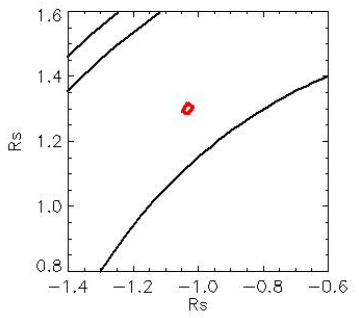
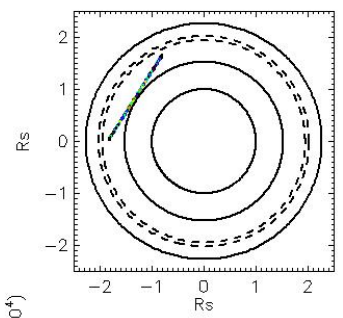
Integration time = 300 S



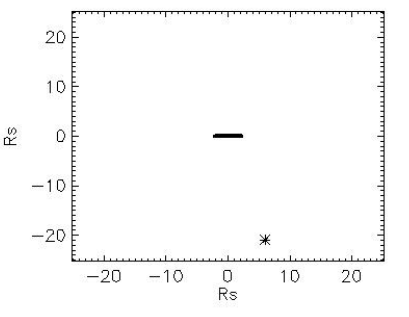
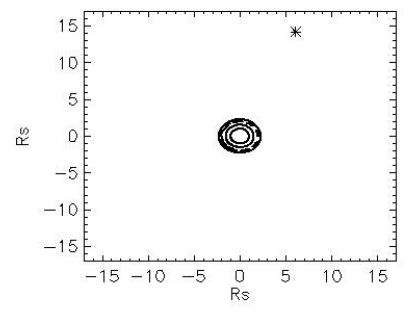
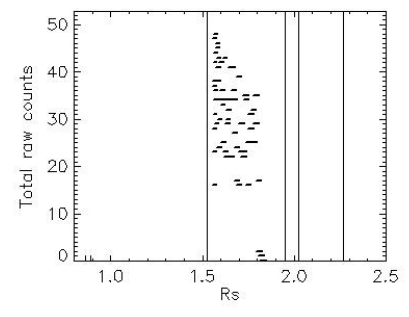
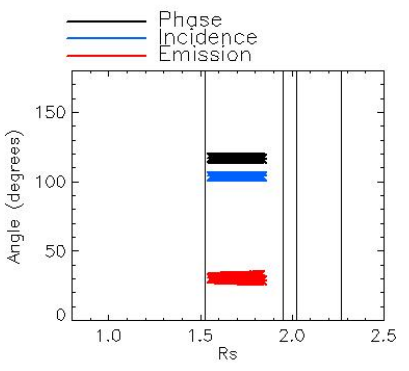
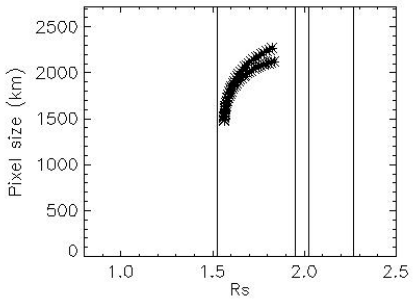
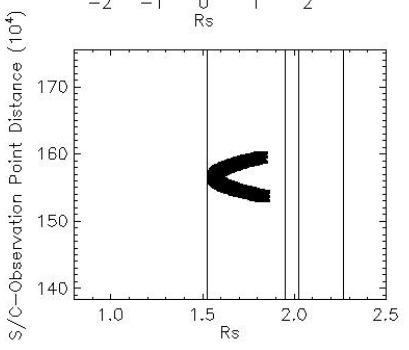


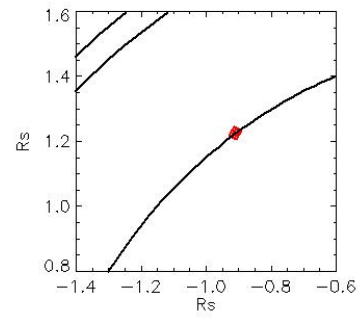
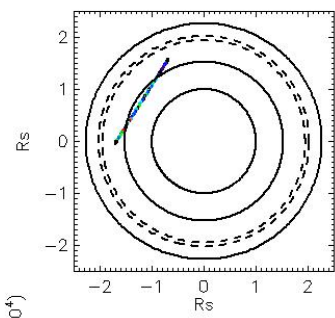
Observation Name:
 UVS_037RLWNPLUNLT001_LJSS
 Observation Date:
 2007_022_00_32_58
 Observation Duration:
 300 S
 Integration time = 300 S



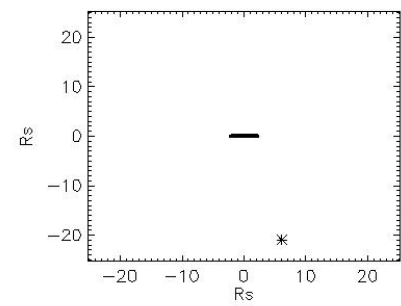
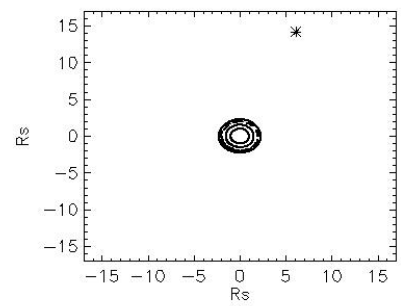
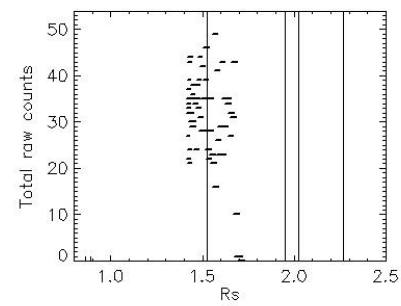
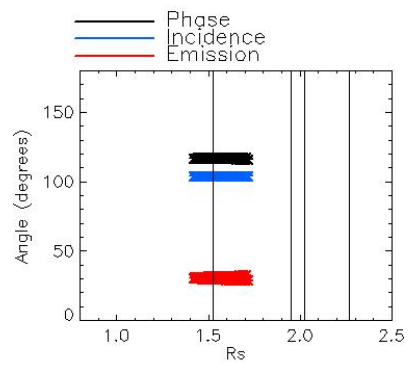
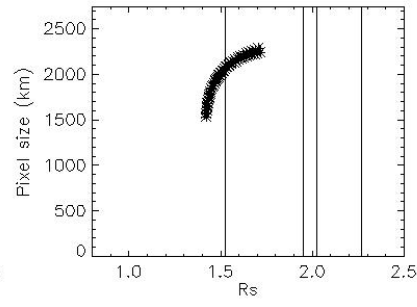
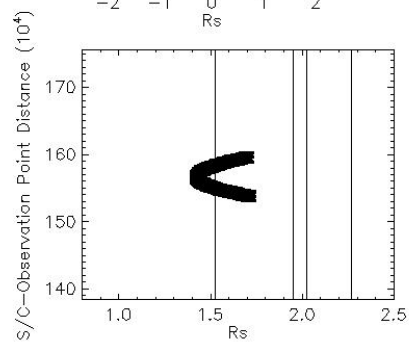


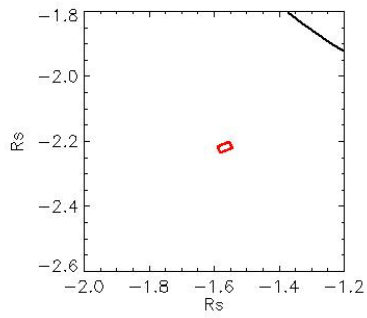
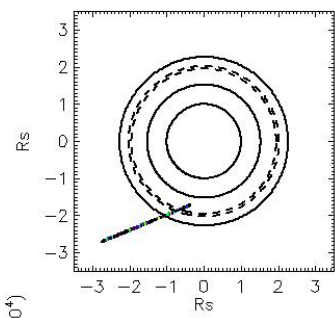
Observation Name:
 UVS_037RLWNPLUNLT001_LJSS
 Observation Date:
 2007_022_00_40_52
 Observation Duration:
 300 S
 Integration time = 300 S



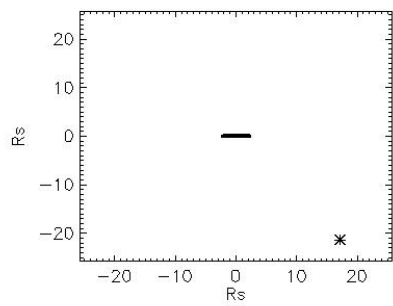
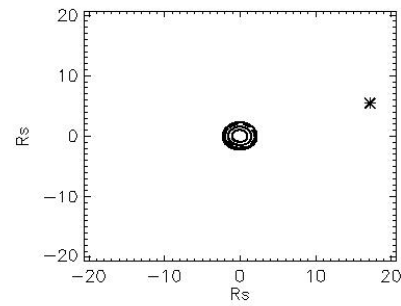
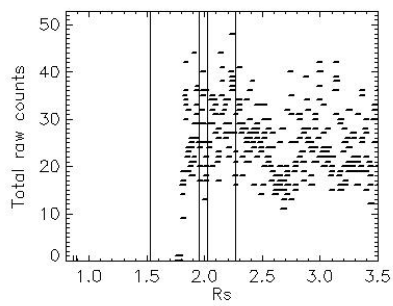
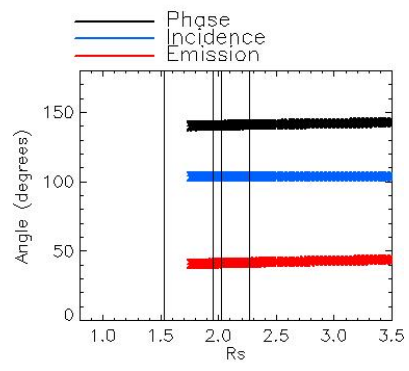
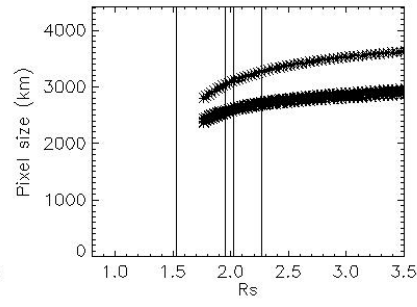
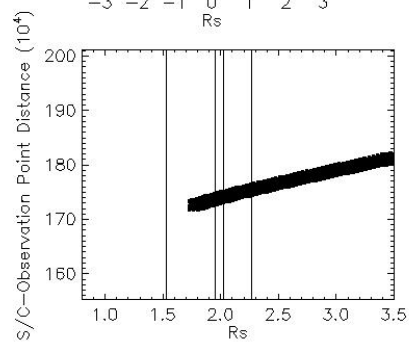


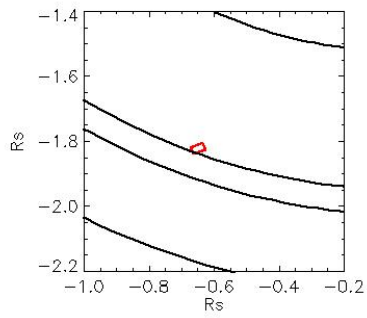
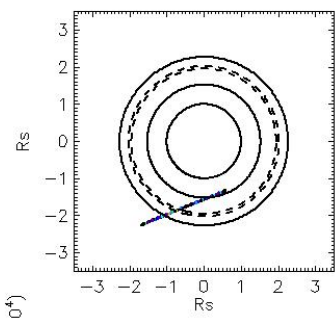
Observation Name:
 UVS_037RLWNPLUNLT001_LJSS
 Observation Date:
 2007_022_00_48_46
 Observation Duration:
 300 S
 Integration time = 300 S



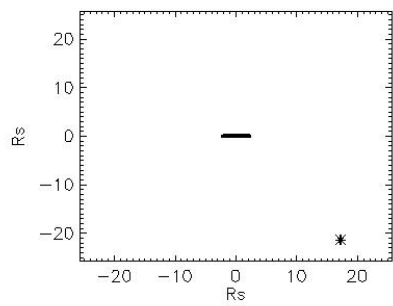
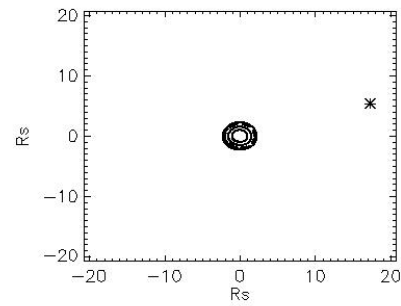
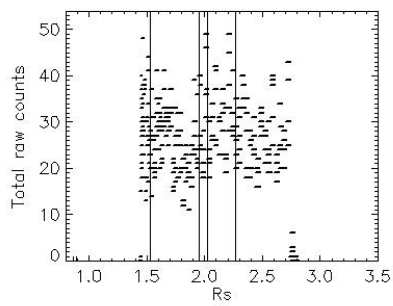
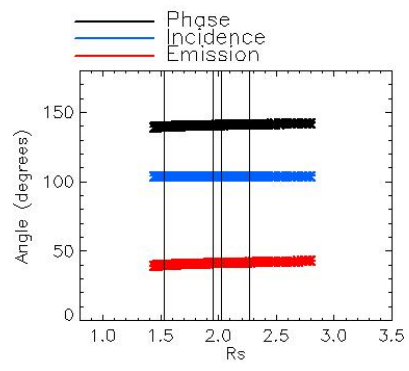
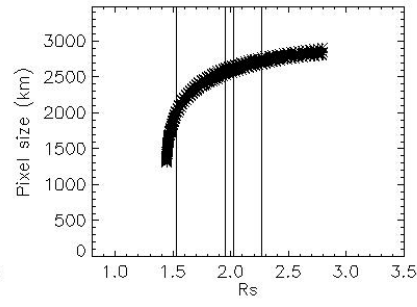
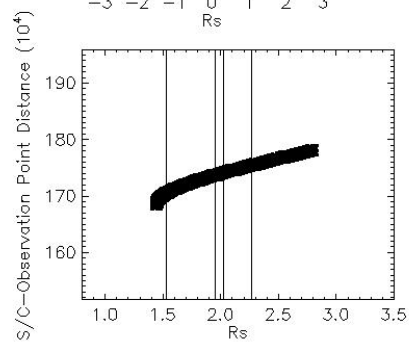


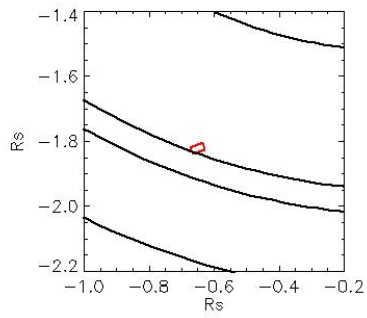
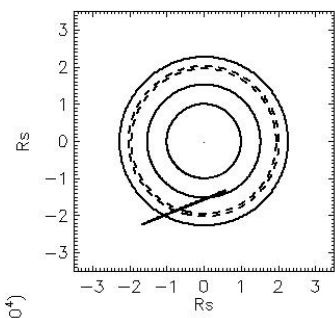
Observation Name:
 UVS_038RLAPOMOSAIC002_VIMS
 Observation Date:
 2007_024_12_47_13
 Observation Duration:
 1800 S
 Integration time = 300 S





Observation Name:
UVIS_038RLAPOMOSAIC002_VIMS
Observation Date:
2007_024_13_20_06
Observation Duration:
1500 S
Integration time = 300 S



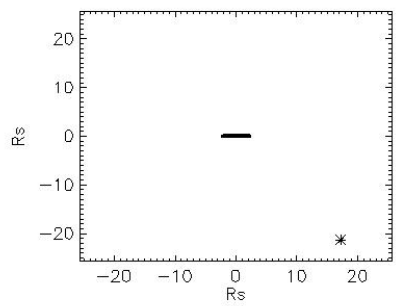
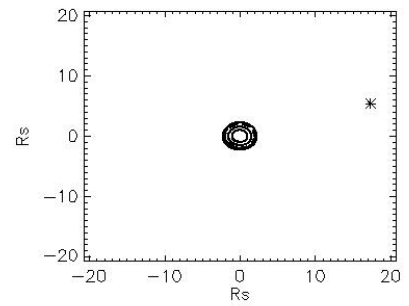
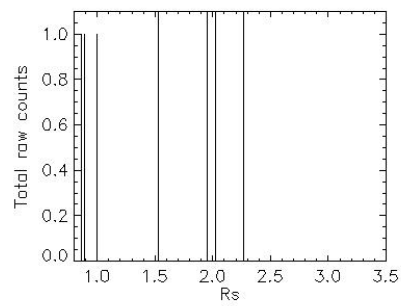
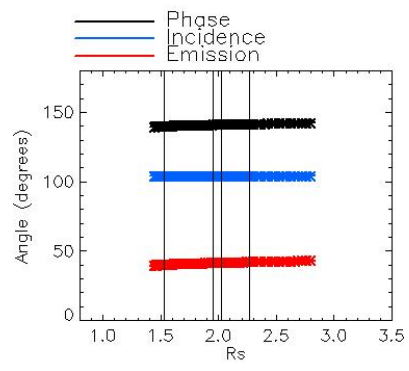
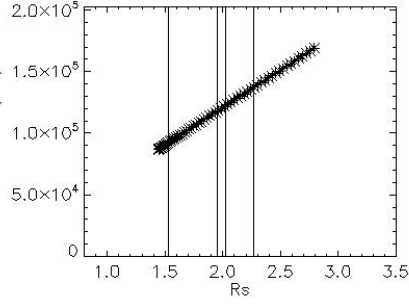
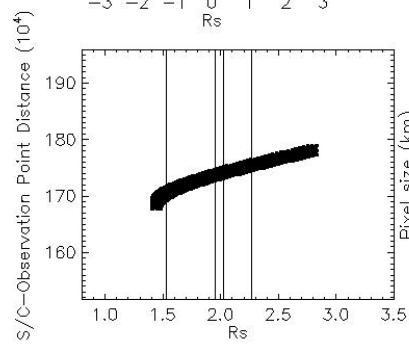


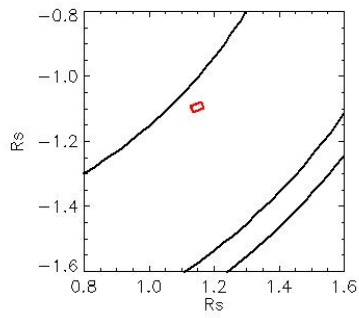
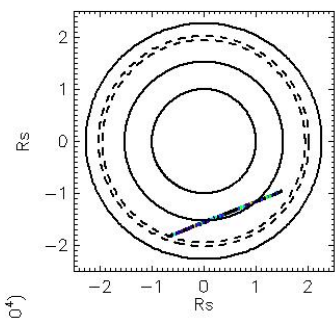
Observation Name:
UVIS_038RLAPOMOSAIC002_VIMS

Observation Date:
2007_024_13_45_06

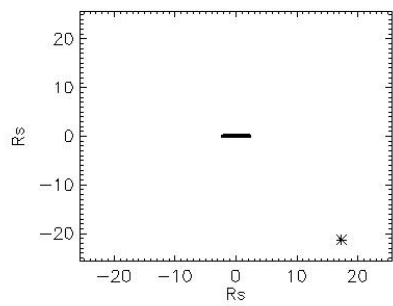
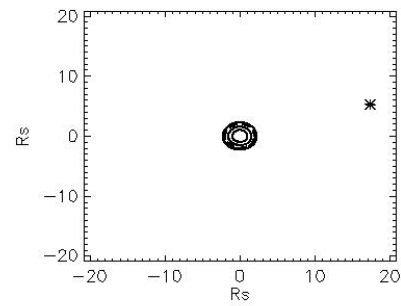
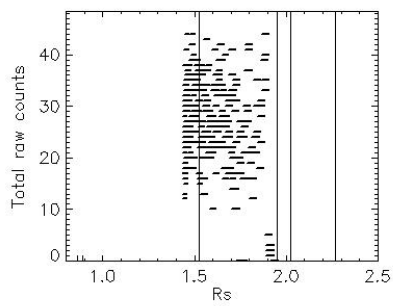
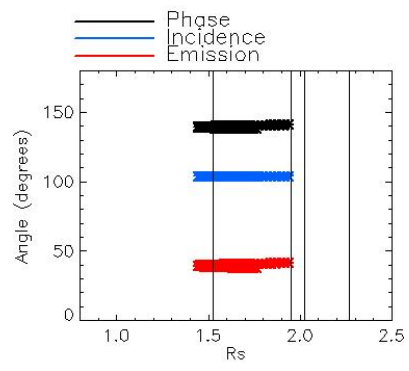
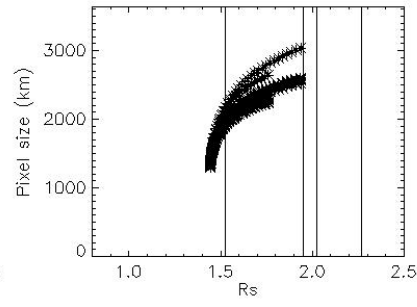
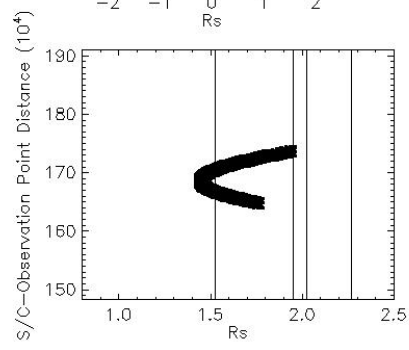
Observation Duration:
300 S

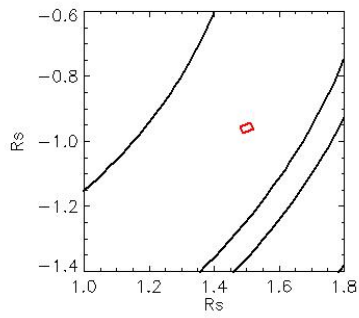
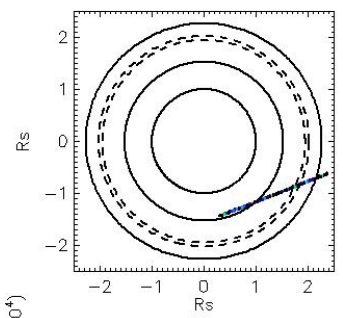
Integration time = 300 S



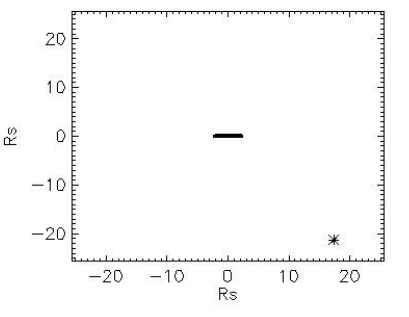
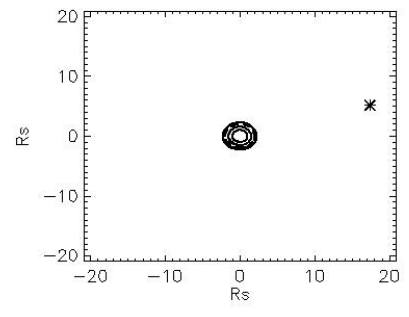
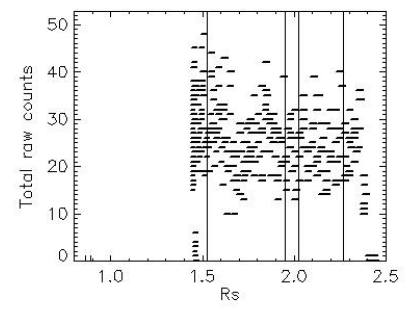
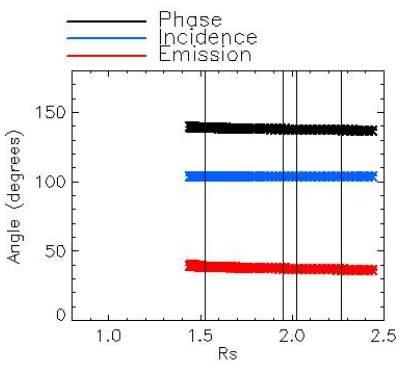
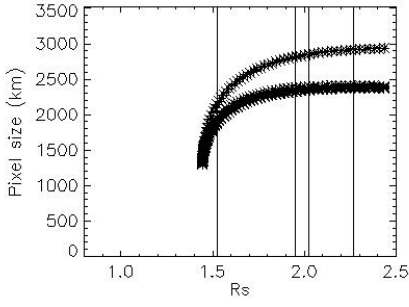
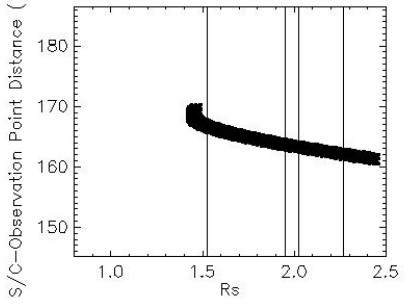


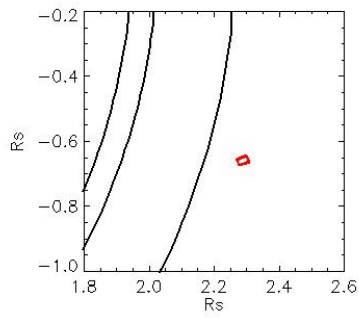
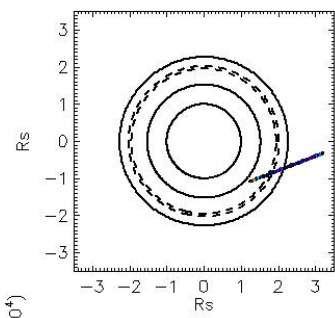
Observation Name:
 UVS_038RLAPOMOSAIC002_VIMS
 Observation Date:
 2007_024_13_53_00
 Observation Duration:
 1800 S
 Integration time = 300 S



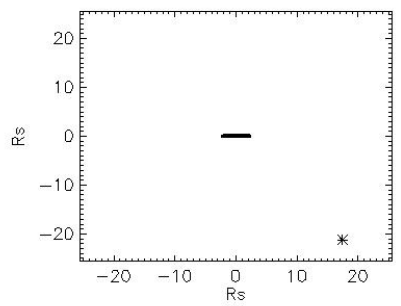
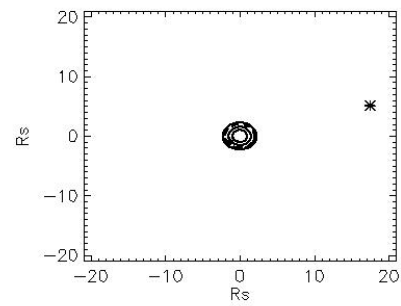
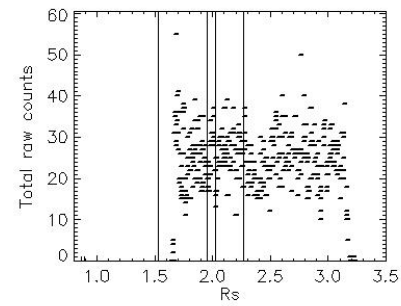
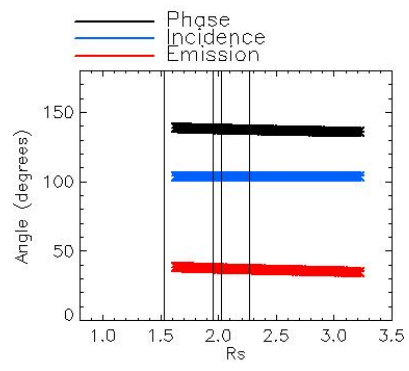
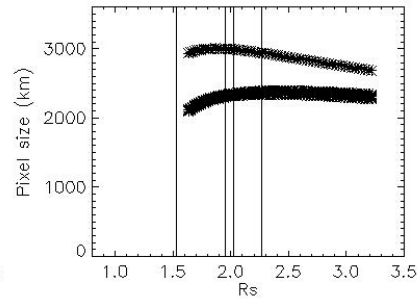
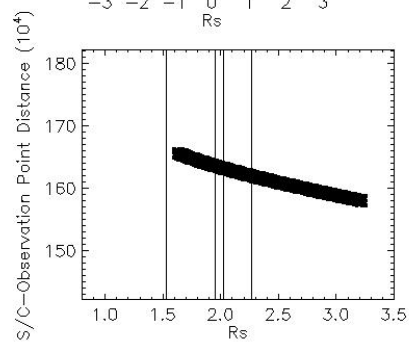


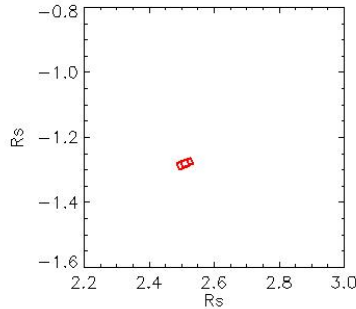
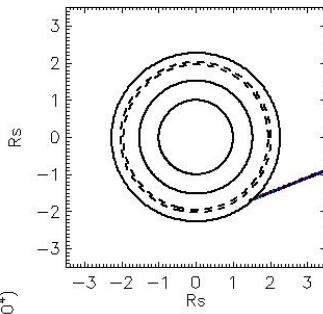
Observation Name:
 UVS_038RLAPOMOSAIC002_VIMS
 Observation Date:
 2007_024_14_25_54
 Observation Duration:
 1800 S
 Integration time = 300 S





Observation Name:
 UVS_038RLAPOMOSAIC002_VIMS
 Observation Date:
 2007_024_14_58_48
 Observation Duration:
 1800 S
 Integration time = 300 S





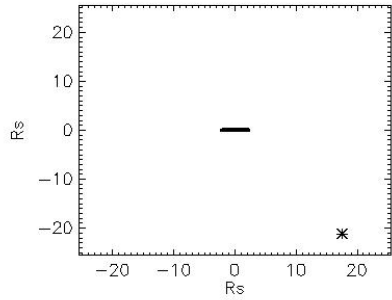
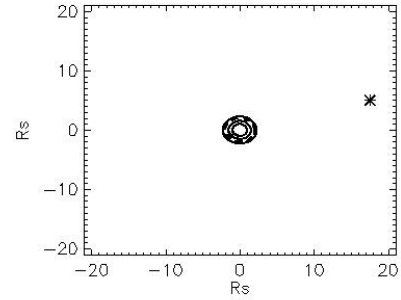
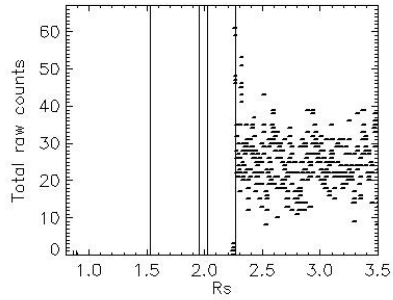
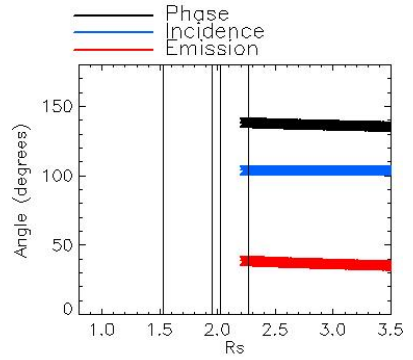
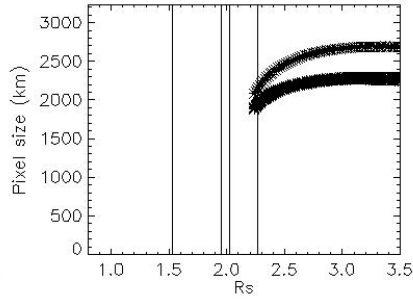
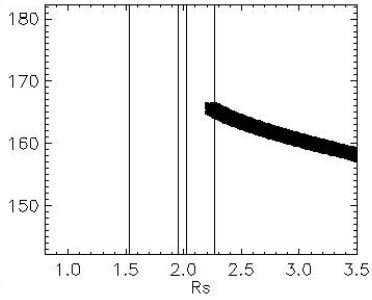
Observation Name:
UVIS_038RLAPOMOSAIC002_VIMS

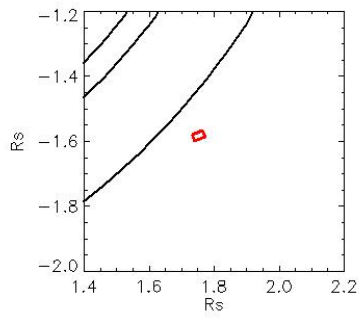
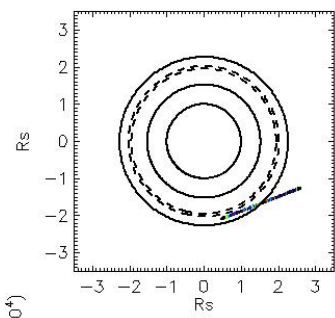
Observation Date:
2007_024_15_30_56

Observation Duration:
1800 S

Integration time = 300 S

S/C—Observation Point Distance (10^4)



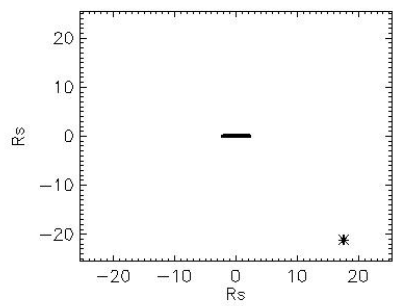
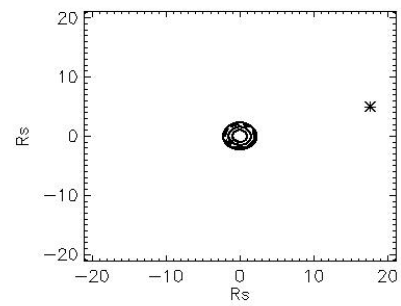
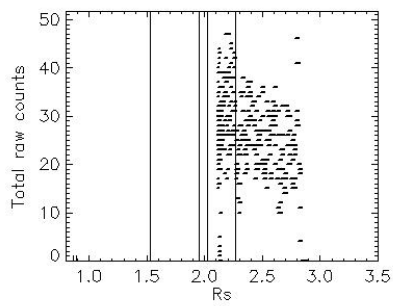
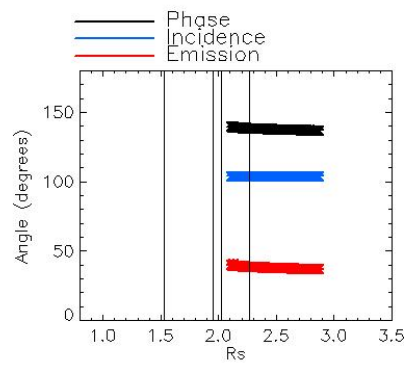
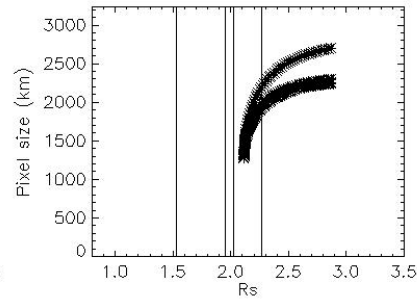
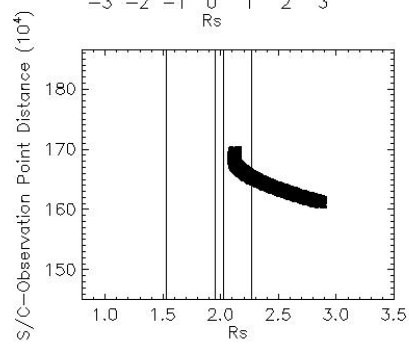


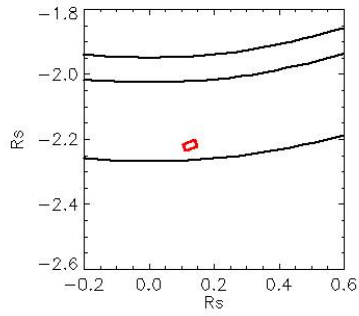
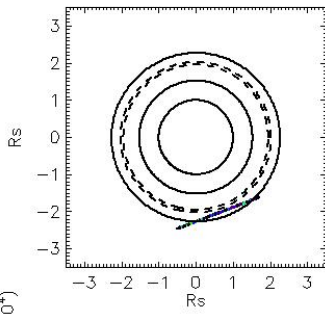
Observation Name:
UVIS_038RLAPOMOSAIC002_VIMS

Observation Date:
2007_024_16_03_50

Observation Duration:
1800 S

Integration time = 300 S



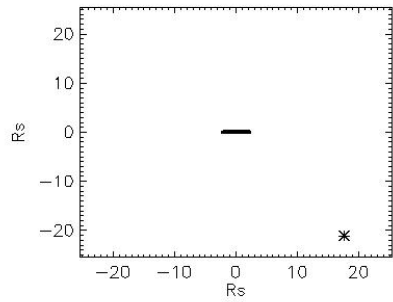
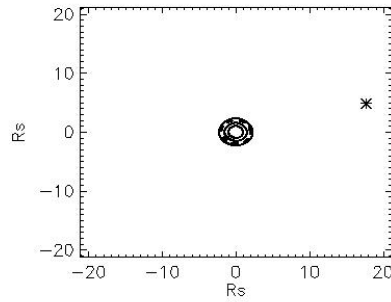
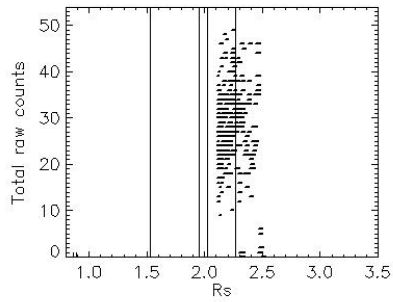
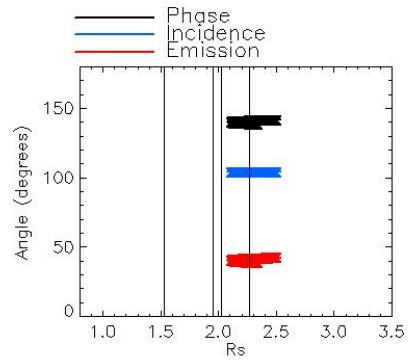
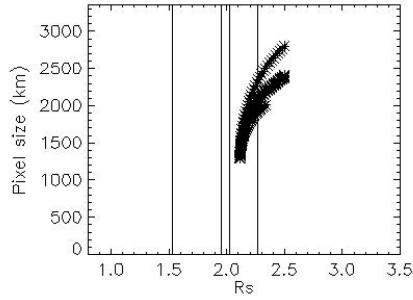
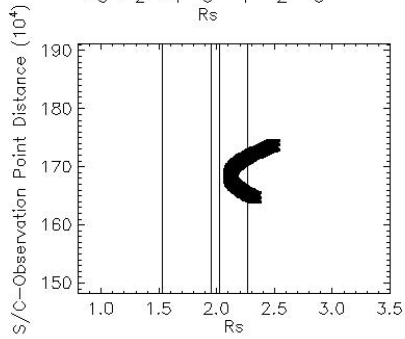


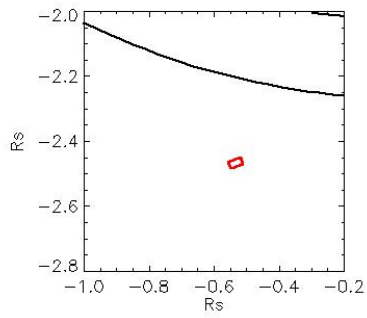
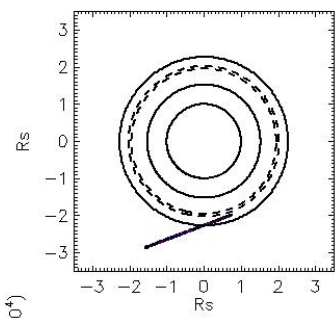
Observation Name:
UVIS_038RLAPOMOSAIC002_VIMS

Observation Date:
2007_024_16_36_44

Observation Duration:
1800 S

Integration time = 300 S



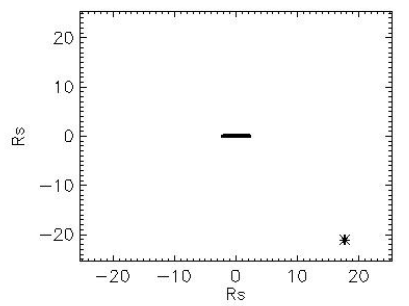
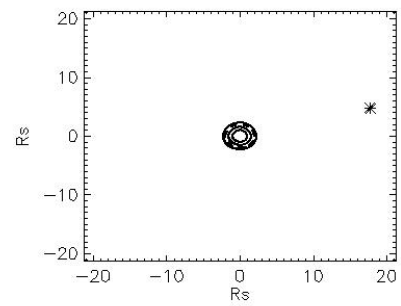
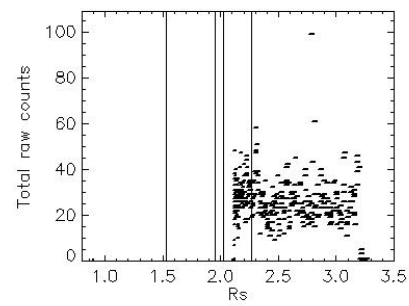
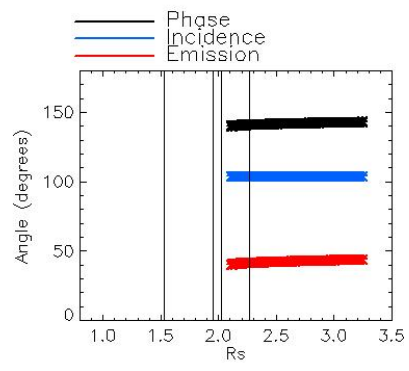
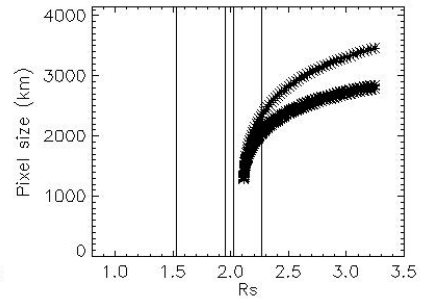
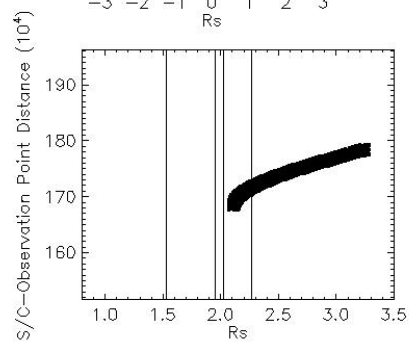


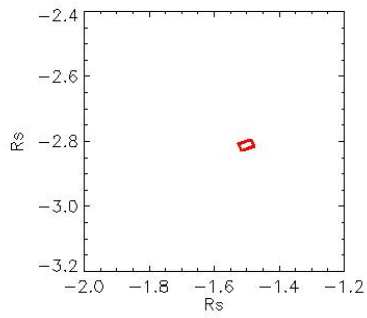
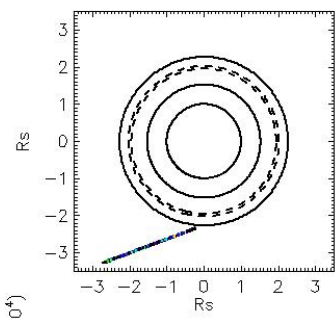
Observation Name:
UVIS_038RLAPOMOSAIC002_VIMS

Observation Date:
2007_024_17_09_38

Observation Duration:
1800 S

Integration time = 300 S



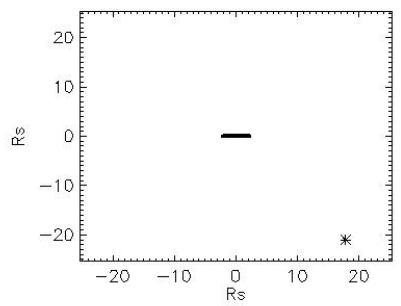
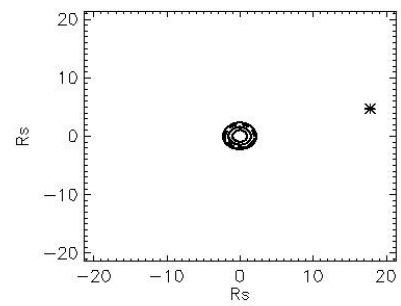
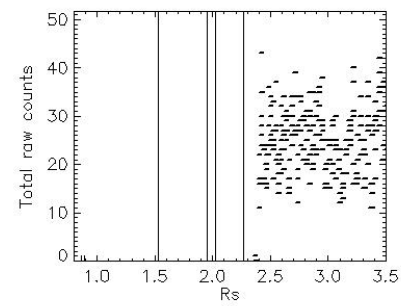
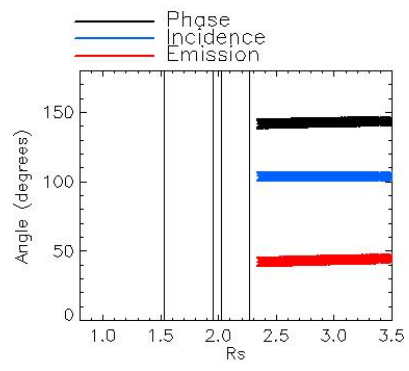
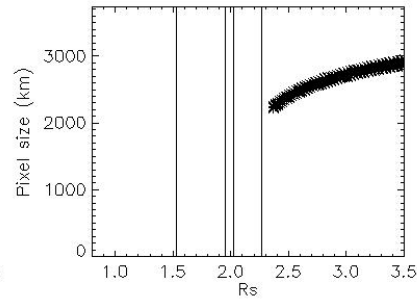
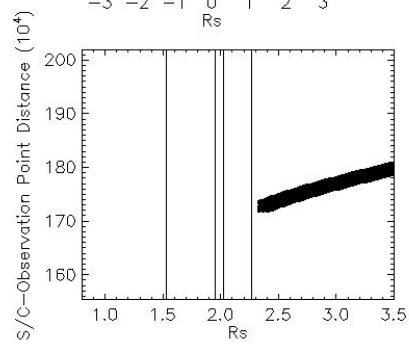


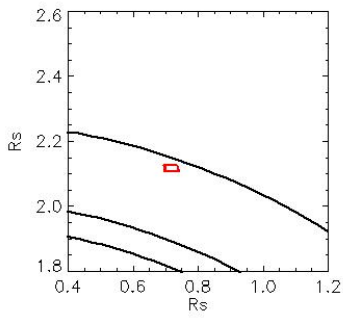
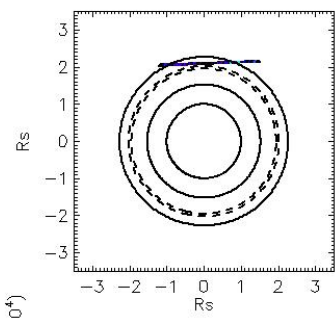
Observation Name:
UVIS_038RLAPOMOSAIC002_VIMS

Observation Date:
2007_024_17_42_32

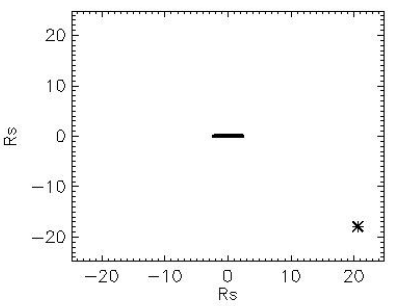
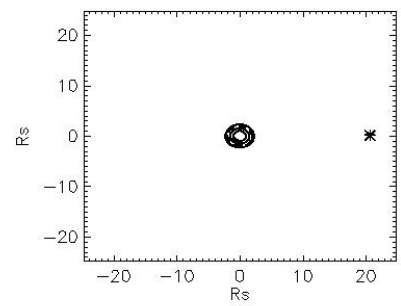
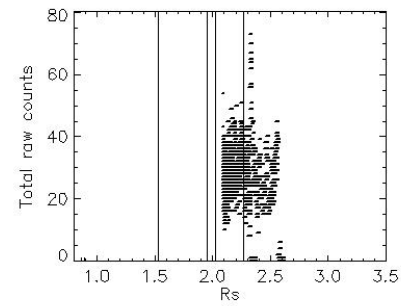
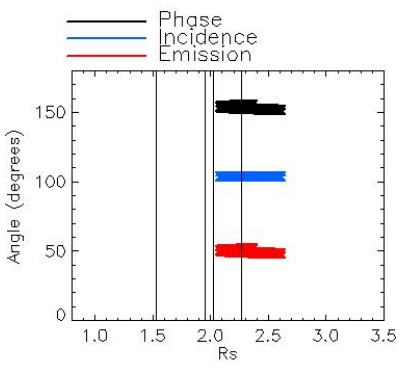
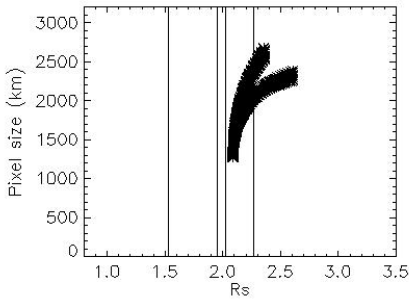
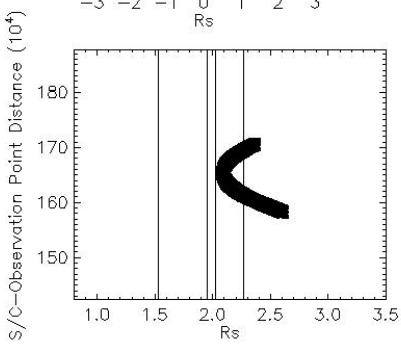
Observation Duration:
1800 S

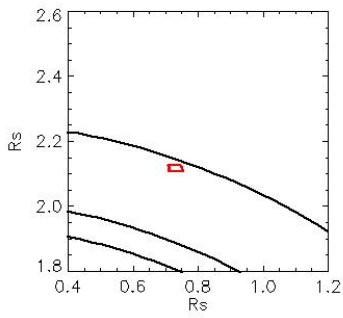
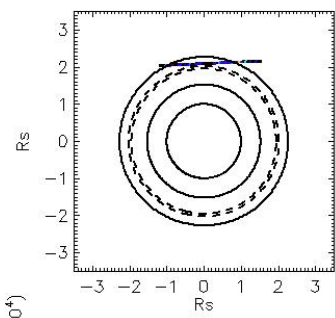
Integration time = 300 S



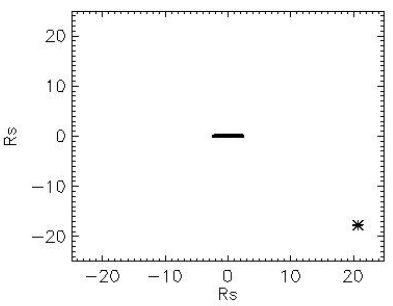
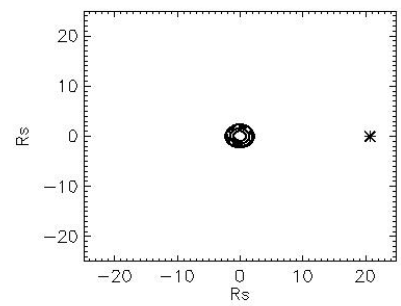
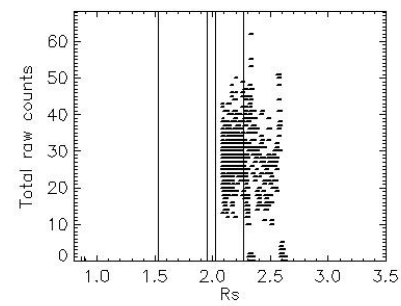
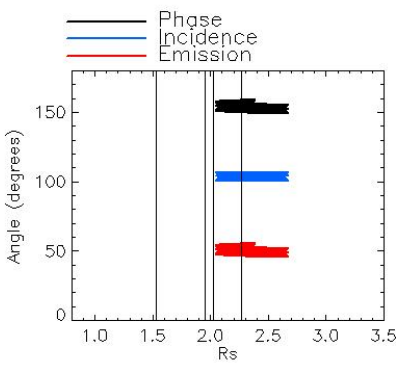
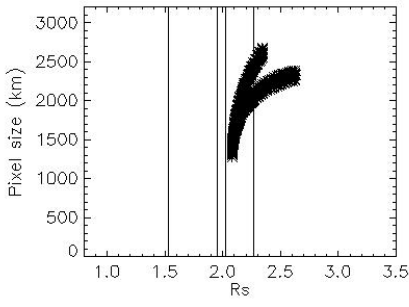
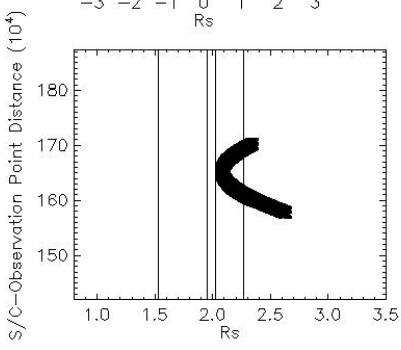


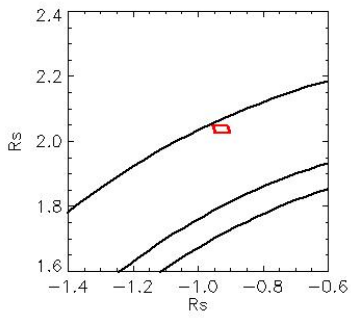
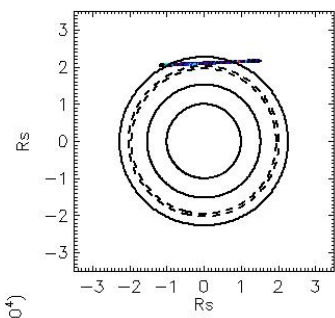
Observation Name:
 UVS_038RLFMONITOR001_CIRS
 Observation Date:
 2007_025_23_19_51
 Observation Duration:
 4500 S
 Integration time = 300 S



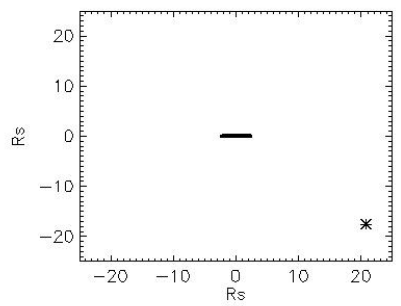
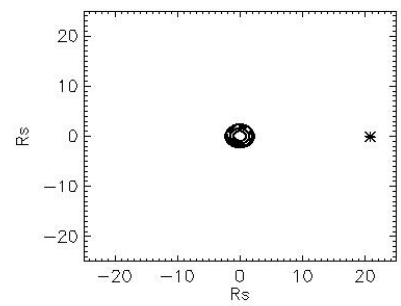
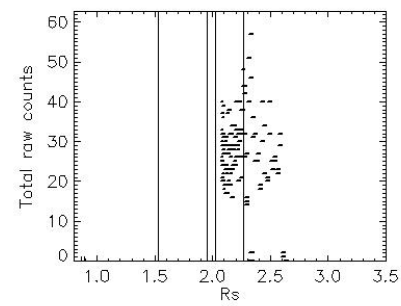
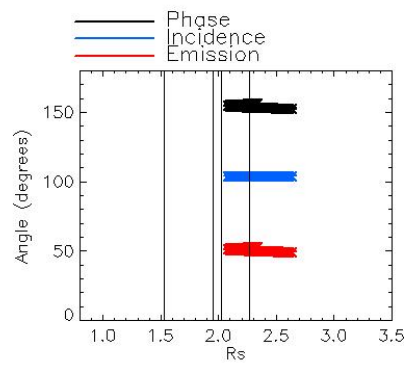
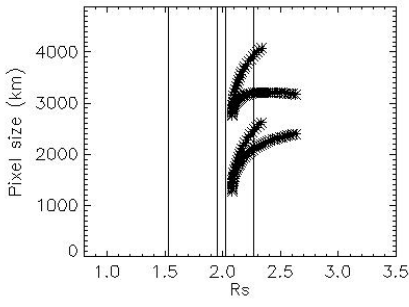
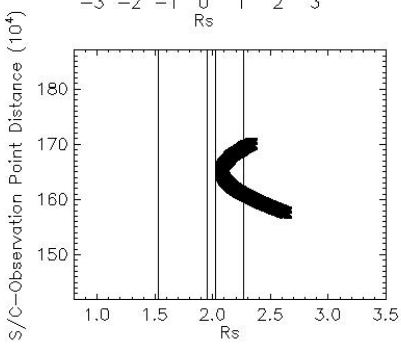


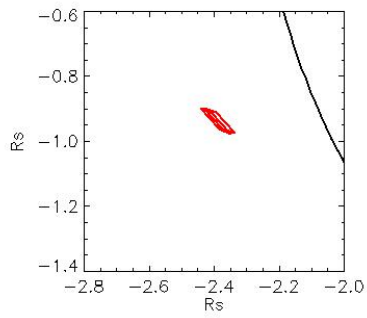
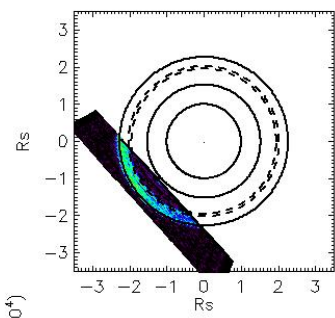
Observation Name:
 UVS_038RLFMONITOR001_CIRS
 Observation Date:
 2007_026_01_07_50
 Observation Duration:
 3600 S
 Integration time = 300 S





Observation Name:
UVIS_038RLFMONITOR001_CIRS
Observation Date:
2007_026_02_17_34
Observation Duration:
600 S
Integration time = 300 S



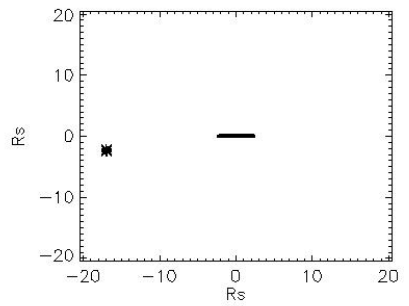
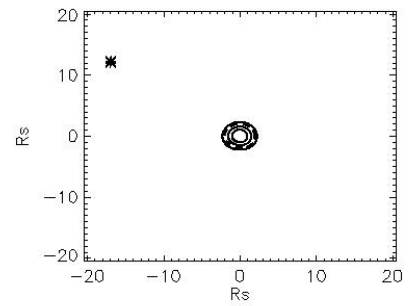
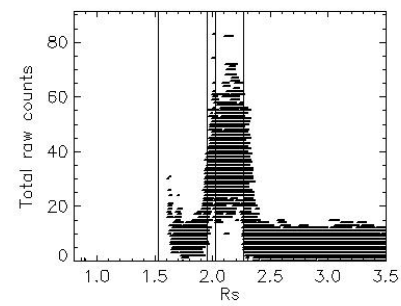
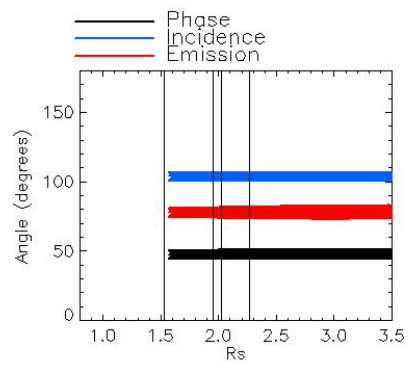
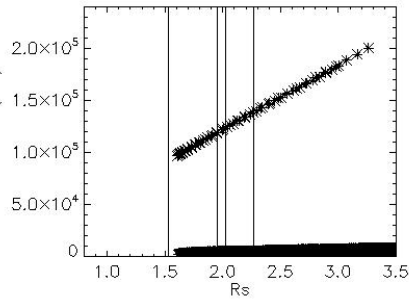
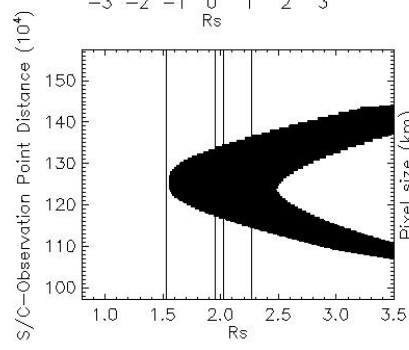


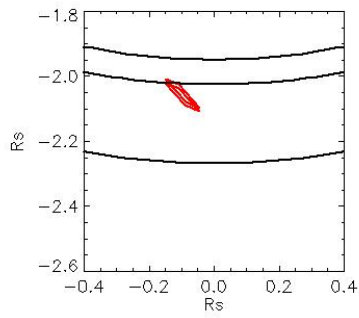
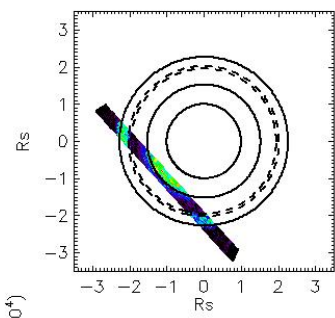
Observation Name:
UMS_038RLSUBMMLP001_CIRS

Observation Date:
2007_035_14_32_51

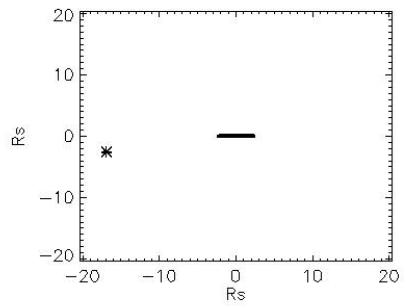
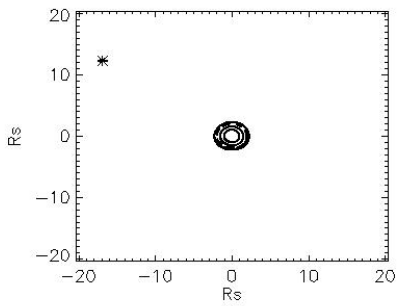
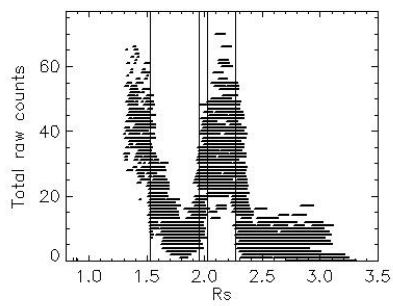
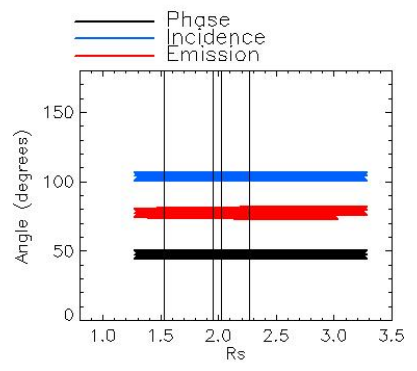
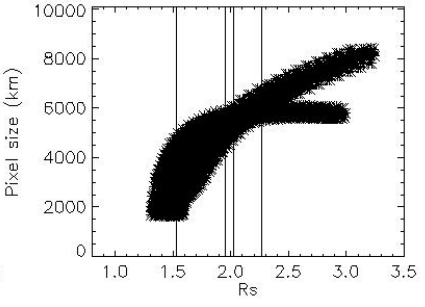
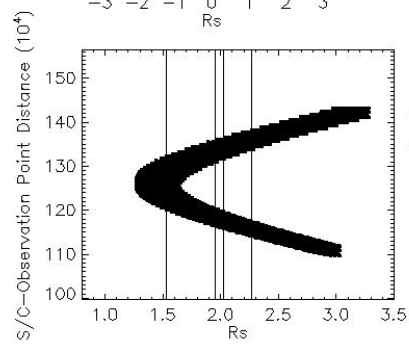
Observation Duration:
5700 S

Integration time = 60 S

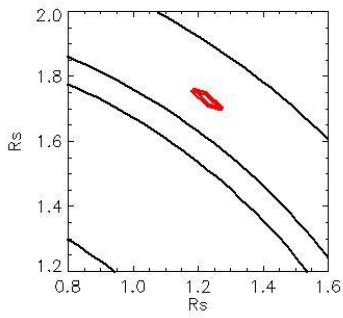
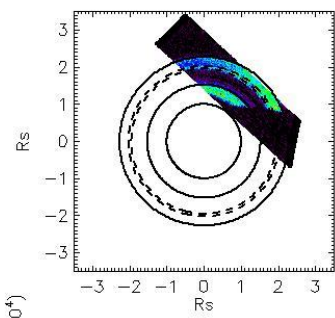




Observation Name:
 UVS_038RLSUBMMLP001_CIRS
 Observation Date:
 2007_035_16_07_51
 Observation Duration:
 2040 S
 Integration time = 60 S



— Phase
 — Incidence
 — Emission



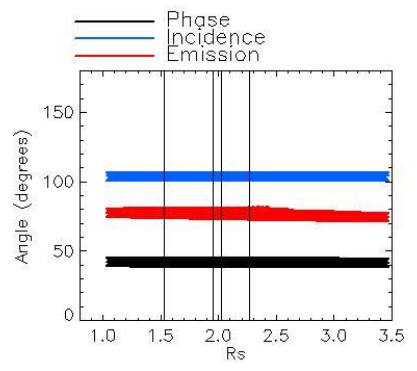
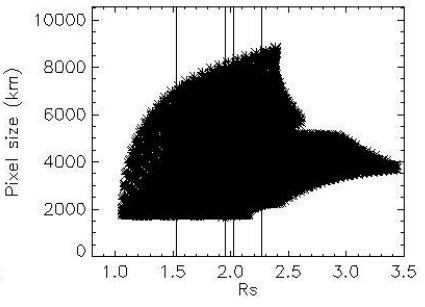
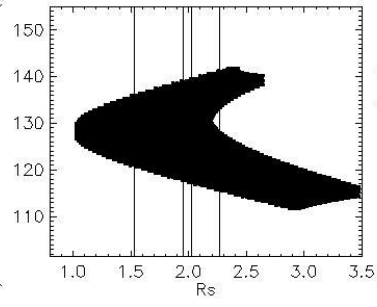
Observation Name:
UVIS_038RLSUBMMLP001_CIRS

Observation Date:
2007_035_16_47_51

Observation Duration:
7740 S

Integration time = 60 S

S/C—Observation Point Distance (10^4)



Total raw counts

