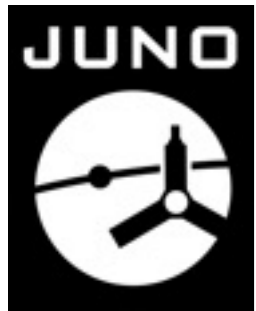


# UVS-planning tool

B. Bonfond, V. Hue, R. Gladstone, T. Greathouse, M. Versteeg



# UVS-planning tool: North polar projection



SPK : spk\_ref\_160226\_180221\_160226.bsp  
CK : juno\_sc\_nom\_150326\_180221\_v02.bc  
Predicted\_Initial

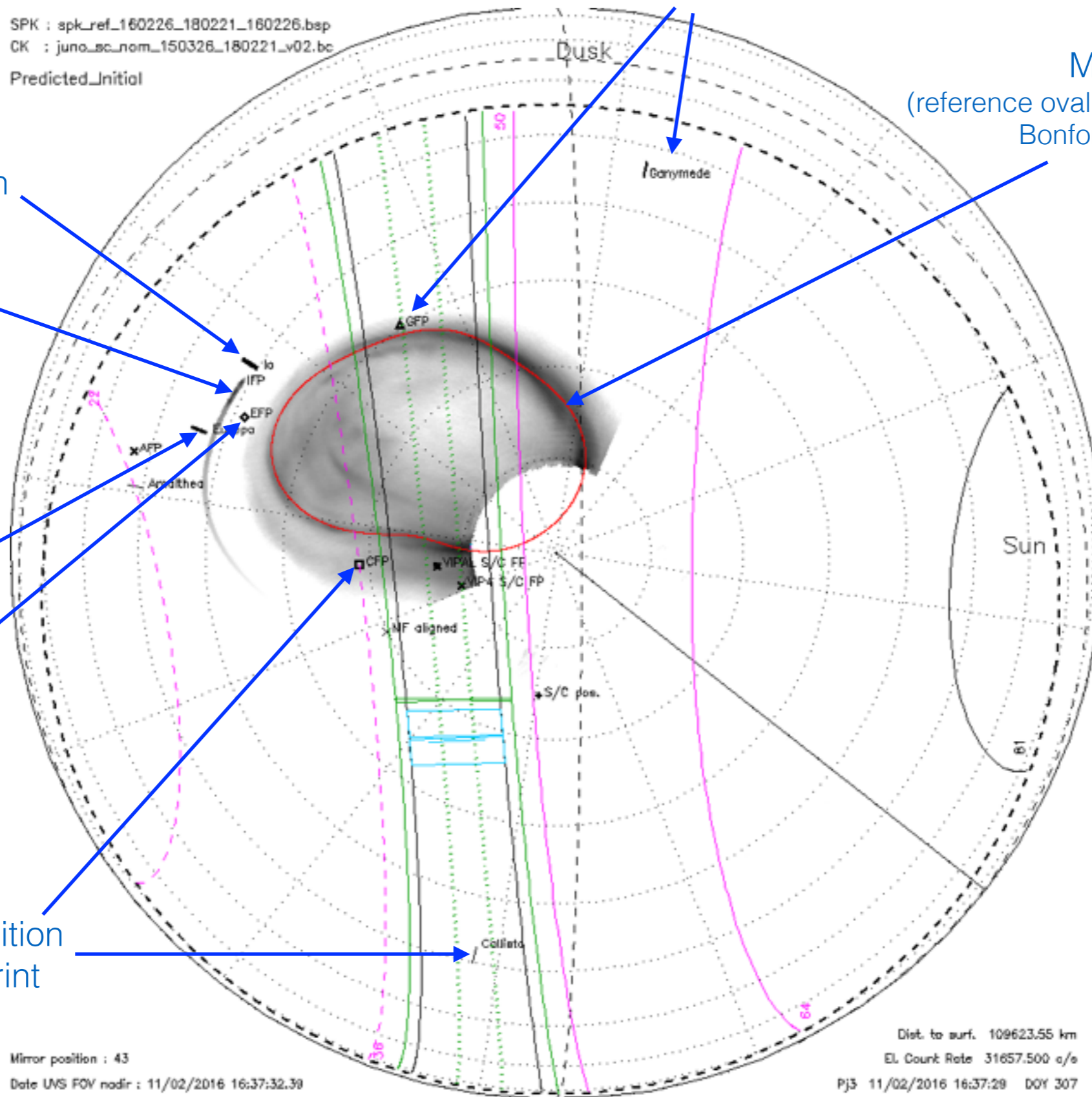
Io position  
Io footprint  
and footprint tail

Ganymede position  
and footprint

Main oval  
(reference oval from HST observations  
Bonfond et al. 2009)

Europa position  
Europa footprint

Callisto position  
and footprint

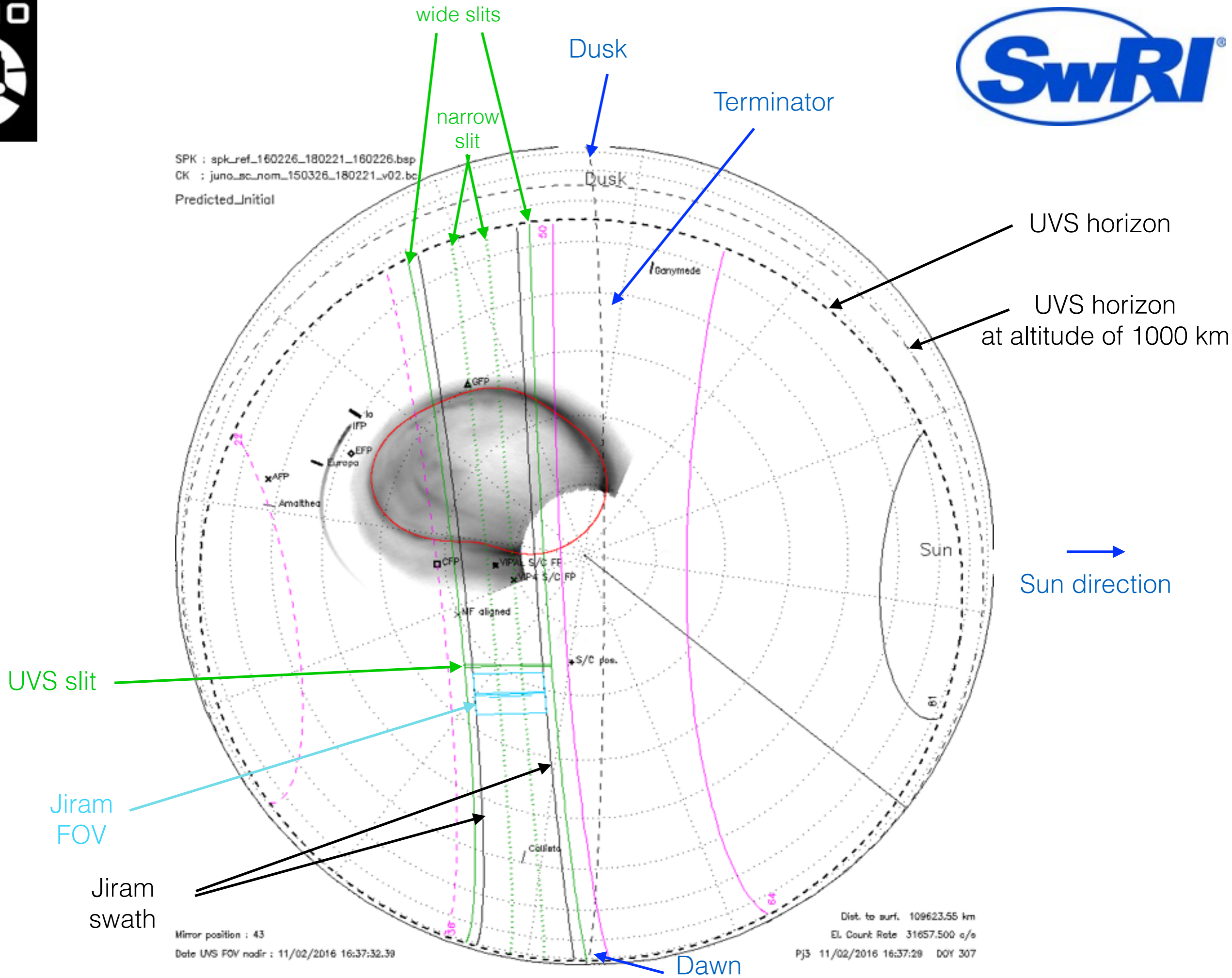


Mirror position : 43  
Date UVS FOV nadir : 11/02/2016 16:37:32.39

Dist. to surf. 109623.55 km  
EL. Count Rate 31657.500 c/s  
Pj3 11/02/2016 16:37:29 DOY 307



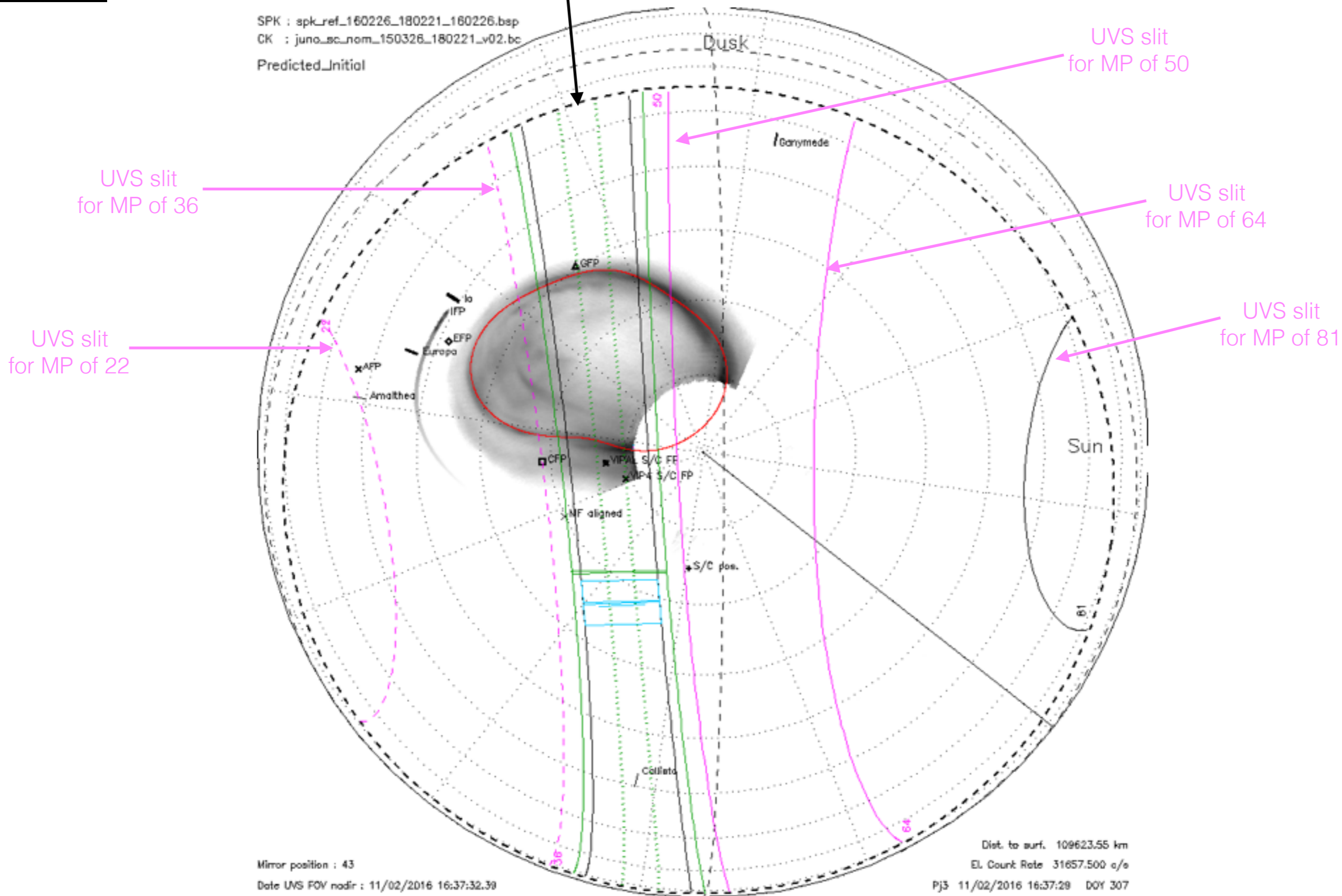
SPK : spk\_ref\_160226\_180221\_160226.bsp  
 CK : juno\_sc\_nom\_150326\_180221\_v02.bc  
 Predicted\_Initial





UVS slit for mirror position (MP) of 43  
(Jiram supporting observation)

SPK : spk\_ref\_160226\_180221\_160226.bsp  
CK : juno\_sc\_nom\_150326\_180221\_v02.bc  
Predicted\_Initial



Mirror position : 43  
Date UVS FOV nadir : 11/02/2016 16:37:32.39

Dist. to surf. 109623.55 km  
EL. Count Rate 31657.500 c/s  
Pj3 11/02/2016 16:37:29 DOY 307

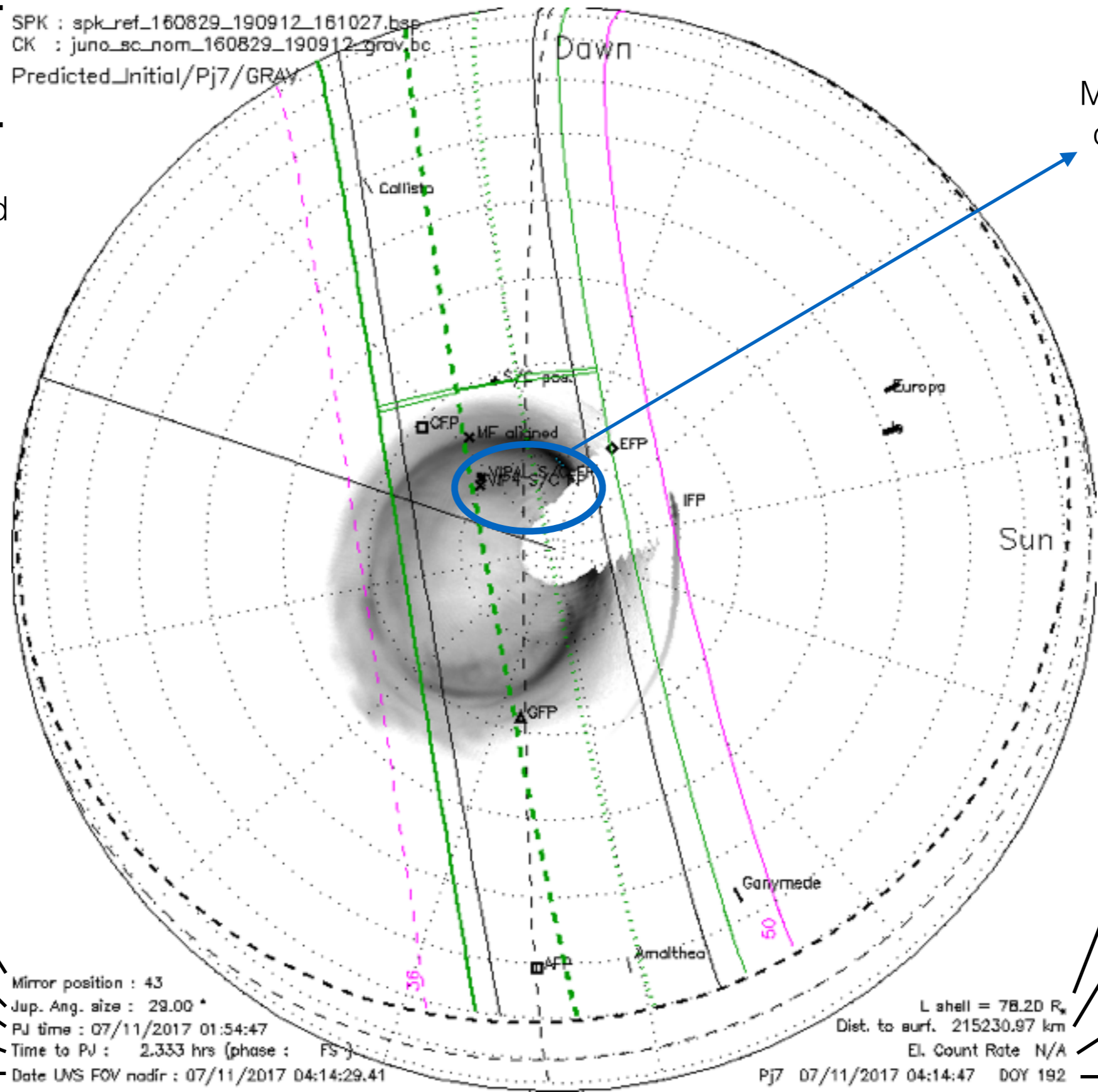




SPK : spk\_ref\_160829\_190912\_161027.bsp  
 CK : juno\_sc\_nom\_160829\_190912\_grav.bc  
 Predicted\_Initial/Pj7/GRAY

Description of the Spice kernels used (spk and ck)

Magnetic mapping of the spacecraft



Current mirror position of UVS

Jupiter angular size

PJ time

Time relative to PJ

UVS-nadir looking date for the current spin

Mirror position : 43  
 Jup. Ang. size : 29.00 °  
 PJ time : 07/11/2017 01:54:47  
 Time to PJ : 2.333 hrs (phase : FS)  
 Date UVS FOV nadir : 07/11/2017 04:14:29.41

L-shell value (from JPL-GIRE)

Distance Juno-Jupiter surface

Radiation-related predicted countrate (JPL-GIRE model)  
 N/A if L\_shell < 14 R<sub>J</sub>

Date info

L shell = 78.20 R<sub>J</sub>  
 Dist. to surf. 215230.97 km  
 El. Count Rate N/A

Pj7 07/11/2017 04:14:47 DOY 192