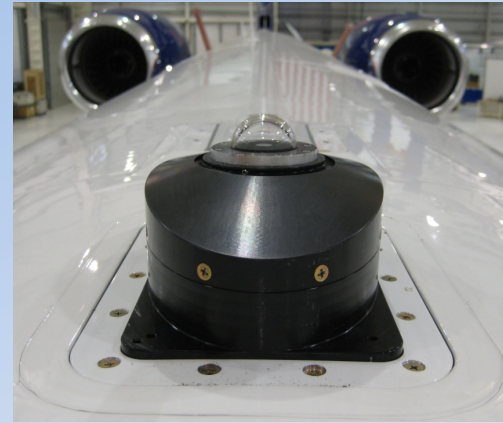
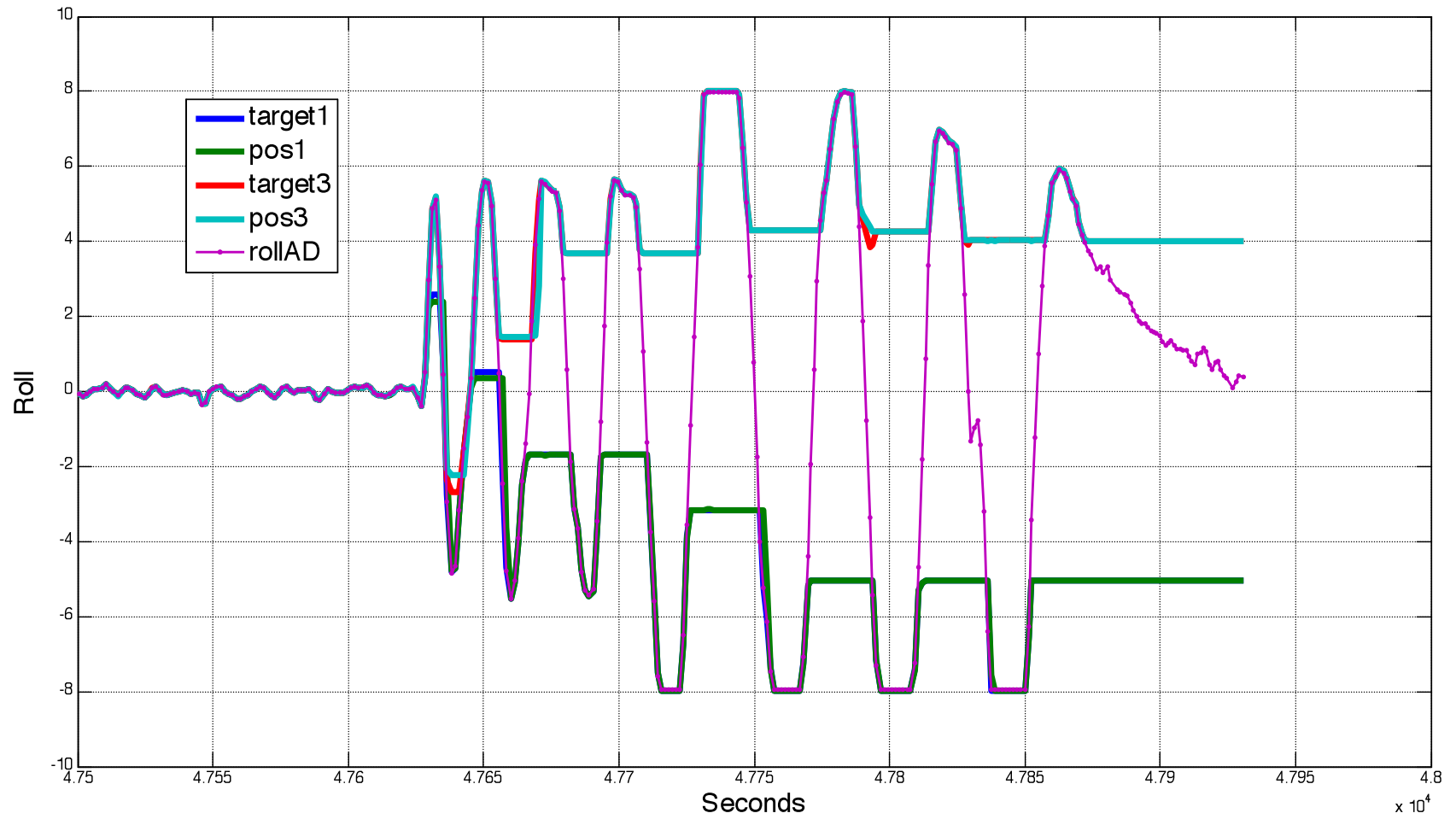
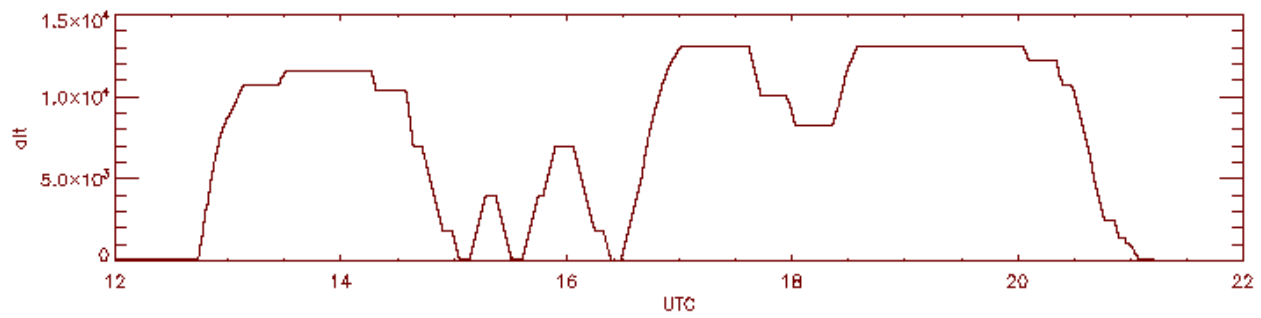
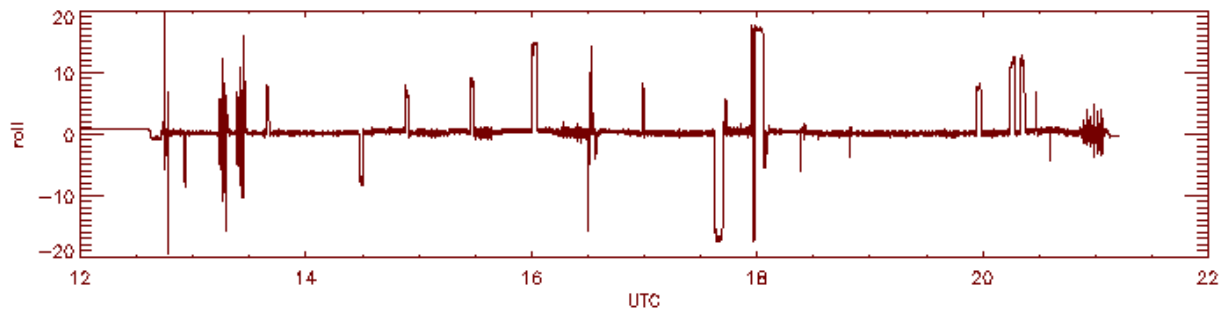
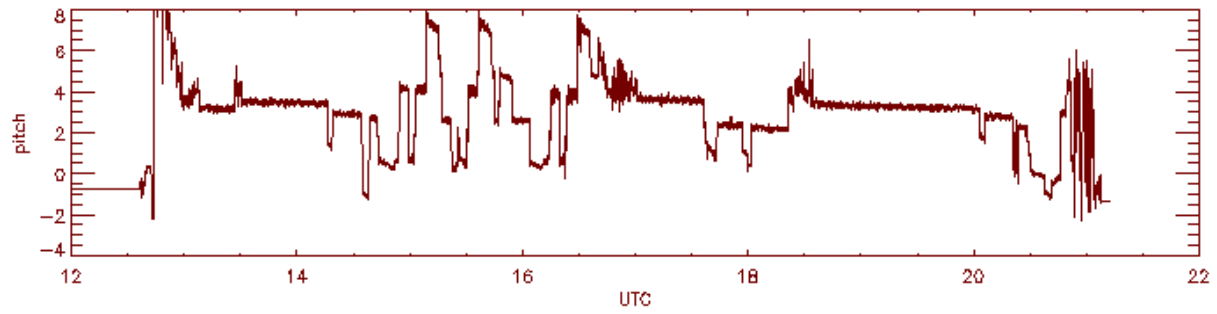
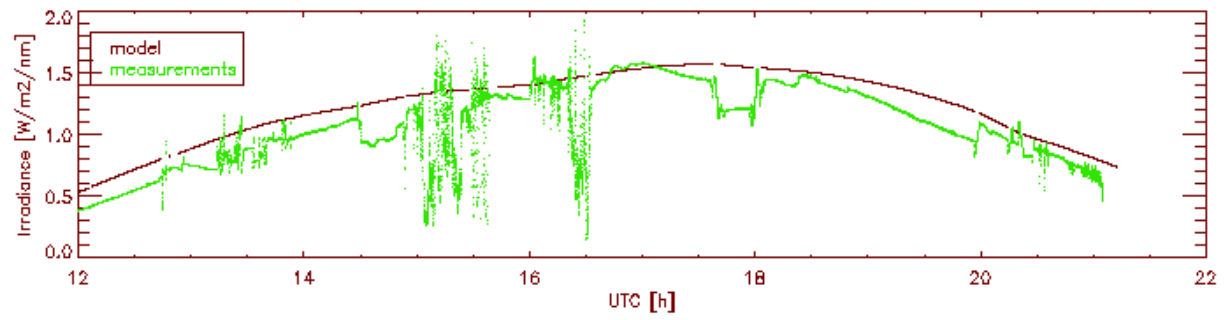


HARP Irradiance

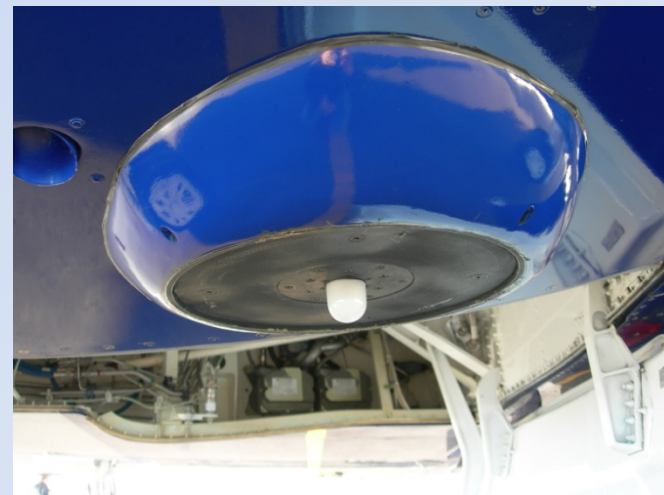


RF02 Roll Parameters





HARP Actinic Flux



Calculated photolysis frequencies from actinic flux

j [O₃->O₂+O(1D)]

j [NO₂->NO+O(3P)]

j [H₂O₂->2OH]

j [HNO₂->OH+NO]

j [HNO₃->OH+NO₂]

j [CH₂O->H+HCO]

j [CH₂O->H₂+CO]

j [CH₃CHO->CH₃+HCO]

j [CH₃CHO->CH₄+CO]

j [C₂H₅CHO->C₂H₅+HCO]

j [CHOCHO->products]

j [CHOCHO->HCO+HCO]

j [CH₃COCHO->products]

j [CH₃COCH₃->CH₃CO
+CH₃]

j [CH₃OOH->CH₃O+OH]

j [CH₃ONO₂->CH₃O
+NO₂]

j [PAN->products]

j [CH₃COCH₂CH₃->
Products]

j [CH₃CH₂CH₂CHO->
C₃H₇+HCO]

j [CH₃CH₂CH₂CHO->
C₂H₄+CH₂CHOH]

j [HO₂NO₂-->HO₂+NO₂]

j [HO₂NO₂-->OH+NO₃]

j [CH₃CH₂ONO₂->
Products]

j [Br₂->Br+Br]

j [BrO->Br+O]

j [Br₂O->products]

j [BrNO₃->Br+NO₃]

j [BrNO₃->BrO+NO₂]

j [BrCl->Br+Cl]

j [HOBr->HO+Br]

j [BrONO₂->Br+NO₃]

j [BrONO₂->BrO+NO₂]

j [Cl₂+hν->Cl+Cl]

j [ClO->Cl+O]

j [ClONO₂->Cl+NO₃]

j [ClONO₂->ClO+NO₂]

Additional photolysis frequencies under
construction (including iodine compounds)

20120124 RF03 Total jO3 and jNO2

