PMC Effects in LP V2 Ozone Data

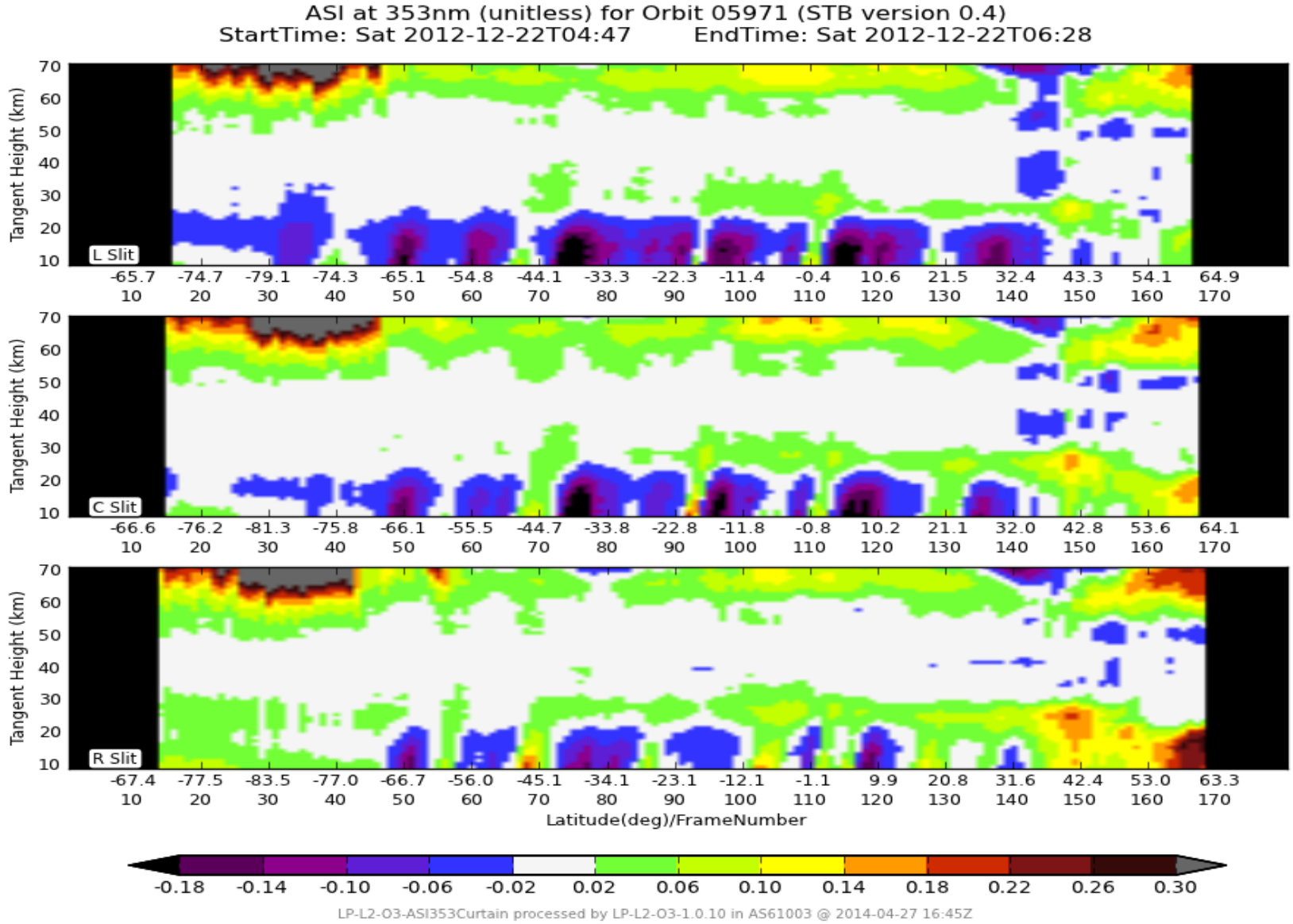
Philippe Xu, Matthew DeLand

May 29, 2014

Summary

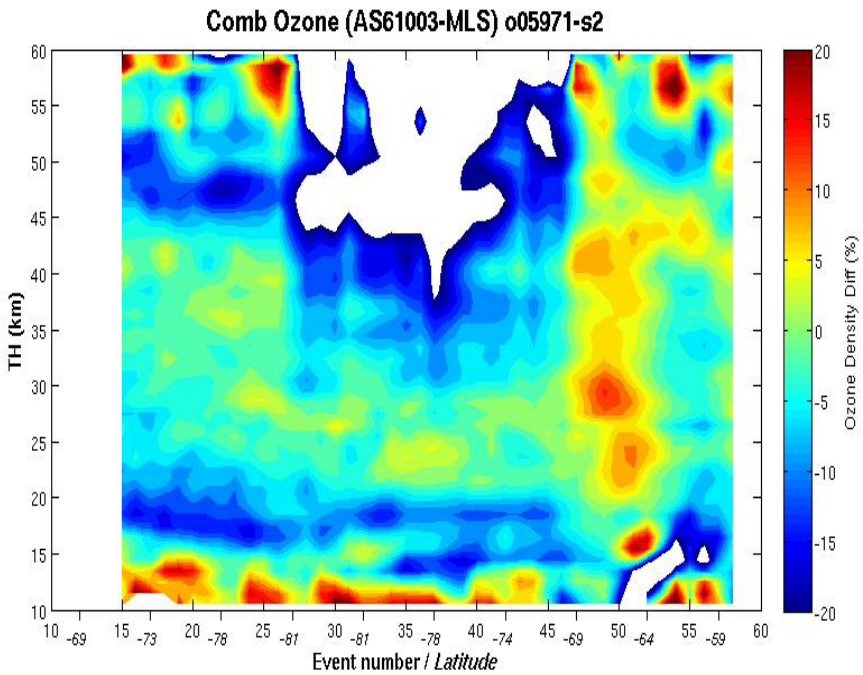
- Select single orbit with clear PMC signal in aerosol scattering index (ASI_353) for Southern Hemisphere summer (12/22/2012) and Northern Hemisphere summer (06/21/2013)
- Examine high latitude ozone difference (both hemispheres) between V2 data and MLS data
- Examine UV residuals for both hemispheres

ASI_353 for Orbit 05971 (12/22/2012)

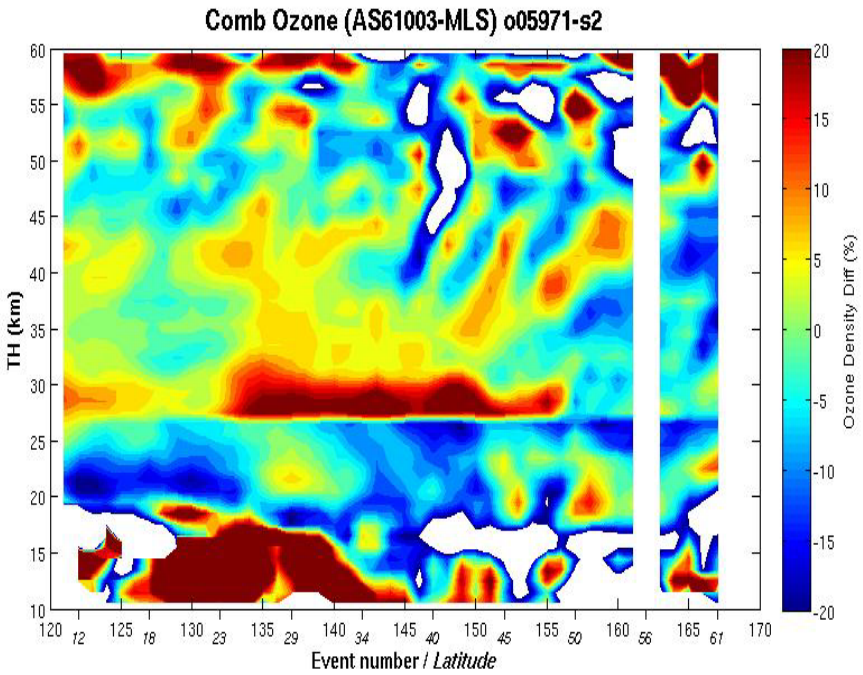


Ozone Difference (V2 – MLS): December 22, Southern Hemisphere PMC

Southern Hemisphere high latitude



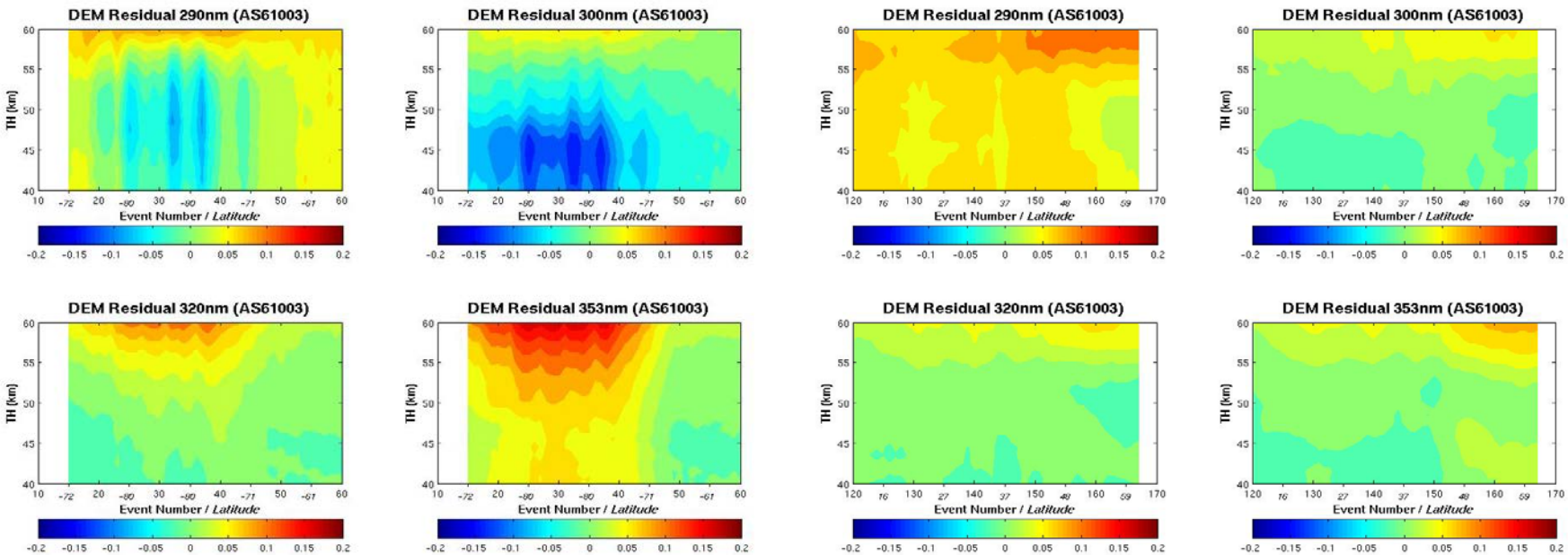
Northern Hemisphere high latitude



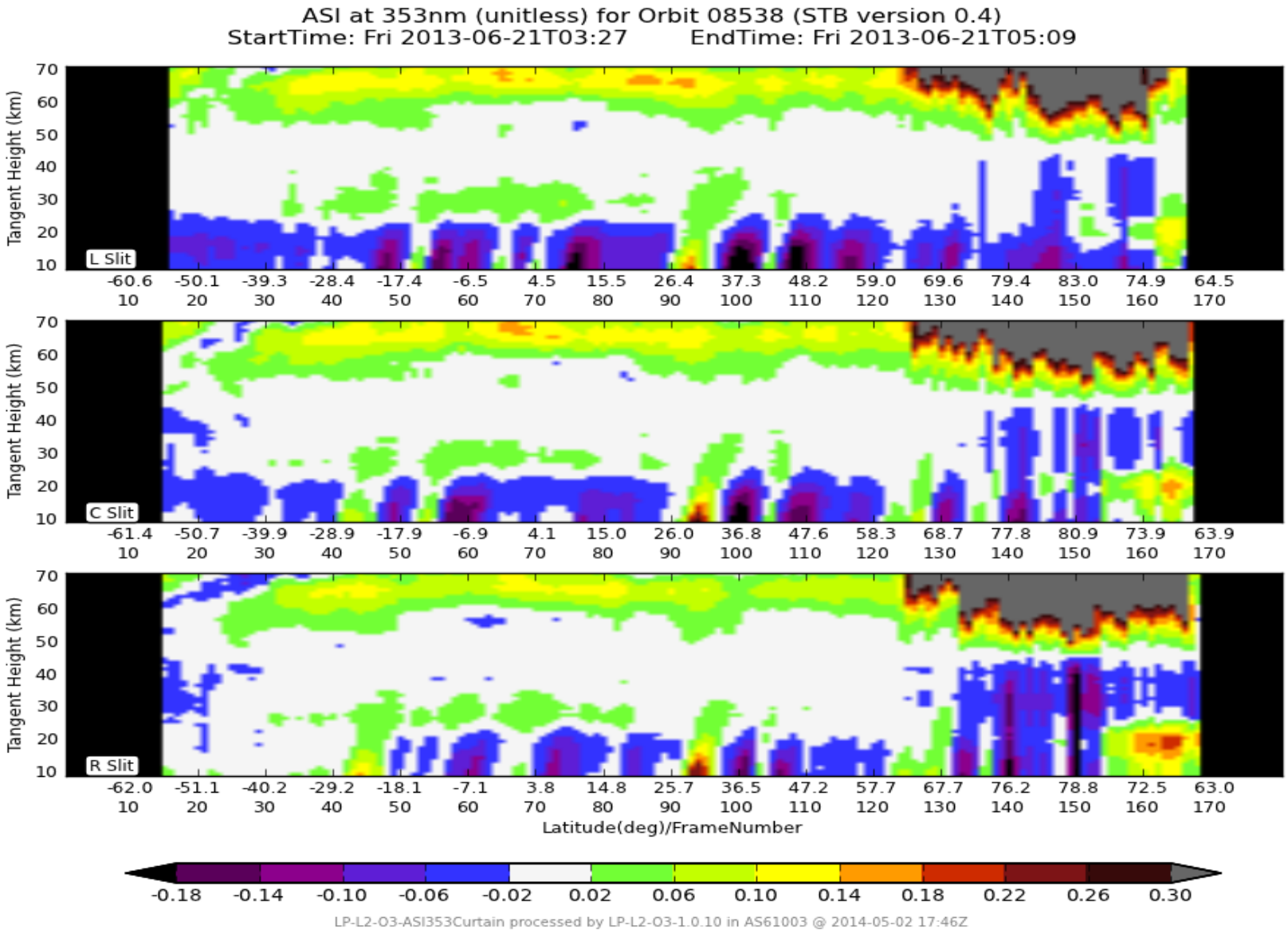
UV Residuals:
December 22, Southern Hemisphere PMC

Southern Hemisphere high latitude

Northern Hemisphere high latitude

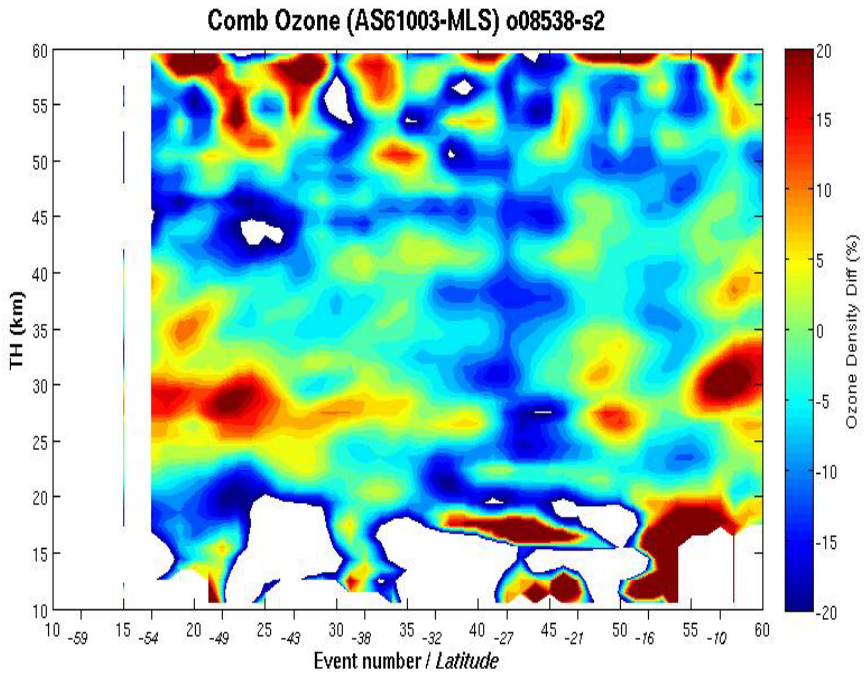


ASI_353 for Orbit 08538 (06/21/2013)

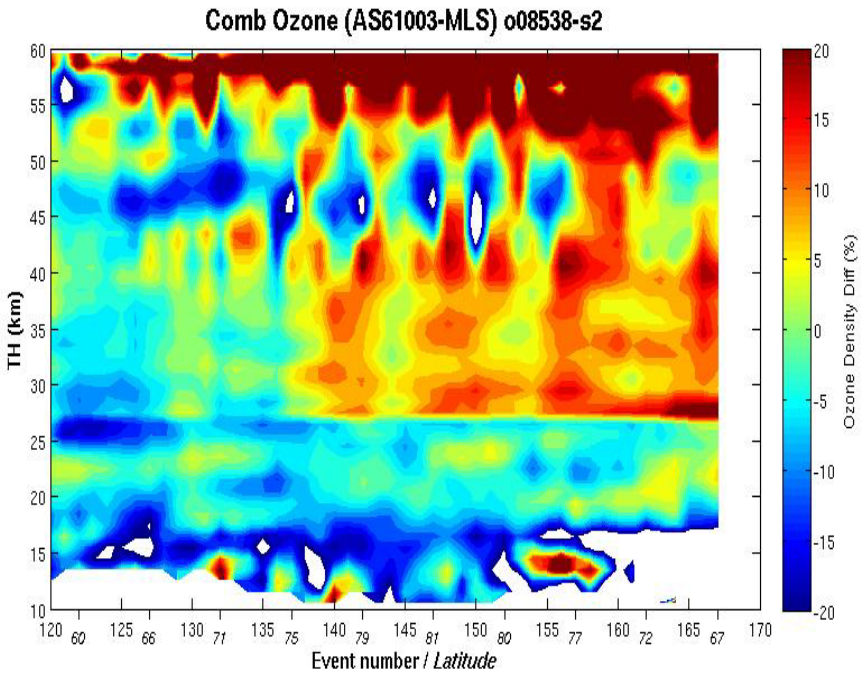


Ozone Difference (V2 – MLS): June 21, Northern Hemisphere PMC

Southern Hemisphere high latitude

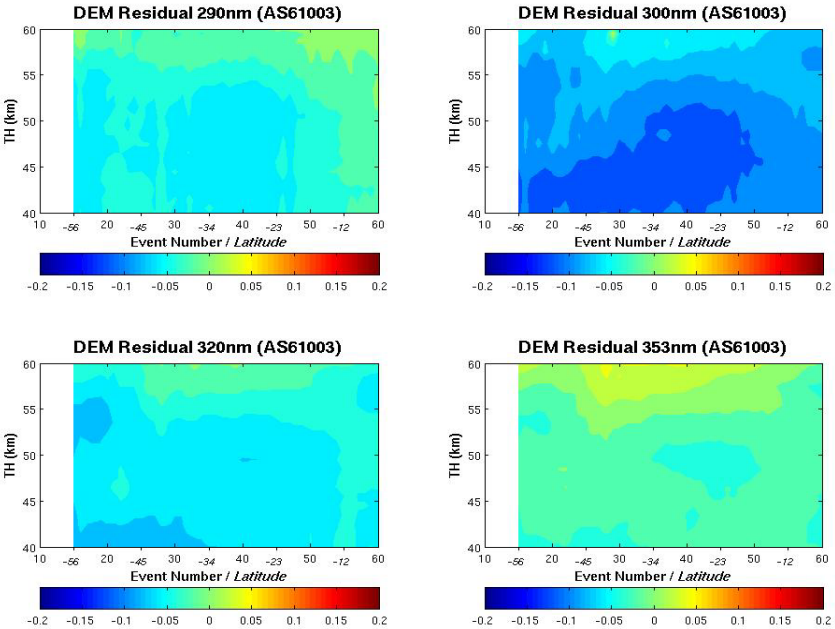
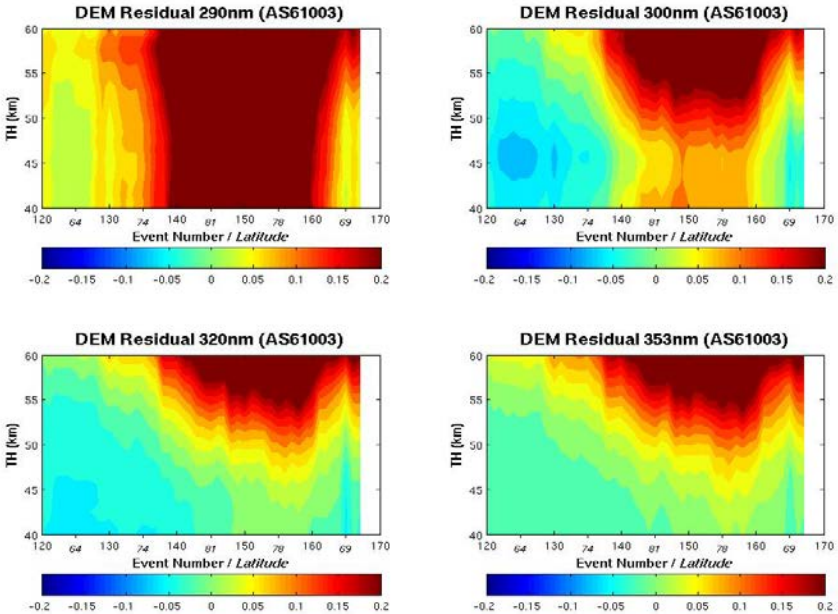


Northern Hemisphere high latitude



UV Residuals:
June 21, Northern Hemisphere PMC

Southern Hemisphere high latitude



Northern Hemisphere high latitude