

ALL MOSAIC MONTHS LABELLED

(as of August 10, 2011)

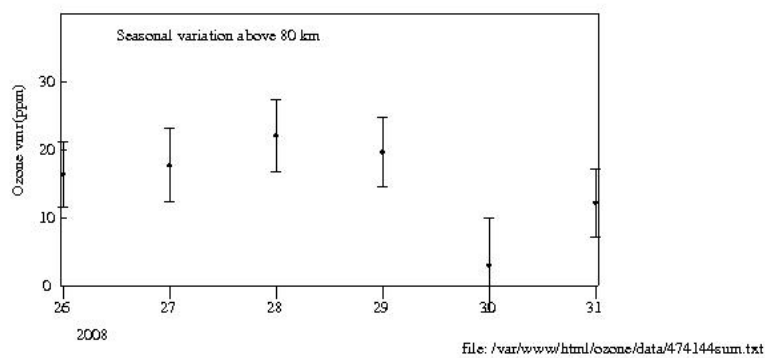
About the Months

- The following shows the ozone concentration in the primary sensing area (mid-Atlantic region, off coast of US) for each month since MOSAIC started, with labels indicating local and global events which *may* affect the ozone in the area of interest.
- The Space Shuttle (STS) launch path came close to that of the monitored area. Water vapor from the Space Shuttle may break down ozone, leading to lower levels of mesospheric ozone detected by MOSAIC. More careful investigation is needed as space shuttle launches take place at a variety of times, and only the nighttime ozone concentration is being plotted in these graphs. Wind direction may also have an effect on the impact.
- Rocket launches from Cape Canaveral, Florida (R) may have a similar effect.
- Shuttle and rocket launches are listed according to the (local, EST or EDT) date and time they occurred.
- Meteor showers (M) ionize the upper atmosphere. They are listed on their peak day.
- Sudden stratospheric warming events (SSW) occur when the middle atmosphere suddenly heats up. These events may occur over several days, but are listed on a peak day.
- Proton events (P) occur when the sun emits high energy particles (protons) that affect Earth's atmosphere. They are listed at the time the protons left the sun, which will generally be 2-3 days before the event reaches the Earth. Check the archives of spaceweather.com for information on when the space weather affected Earth.

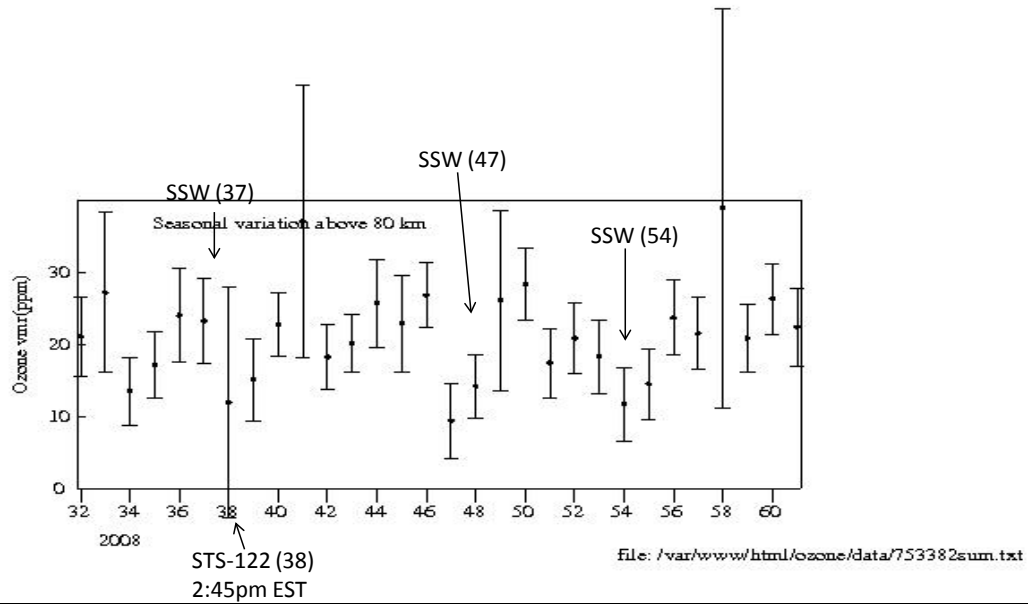
Labels

- STS – Space Shuttle Launch from Kennedy Space Center, Florida
- R – Rocket Launches from Kennedy or Cape Canaveral Space Center, Florida
- M – Meteor Showers
- SSW – Sudden Stratospheric Warming events
- P – Solar Proton Events
- () – day or days event occurred

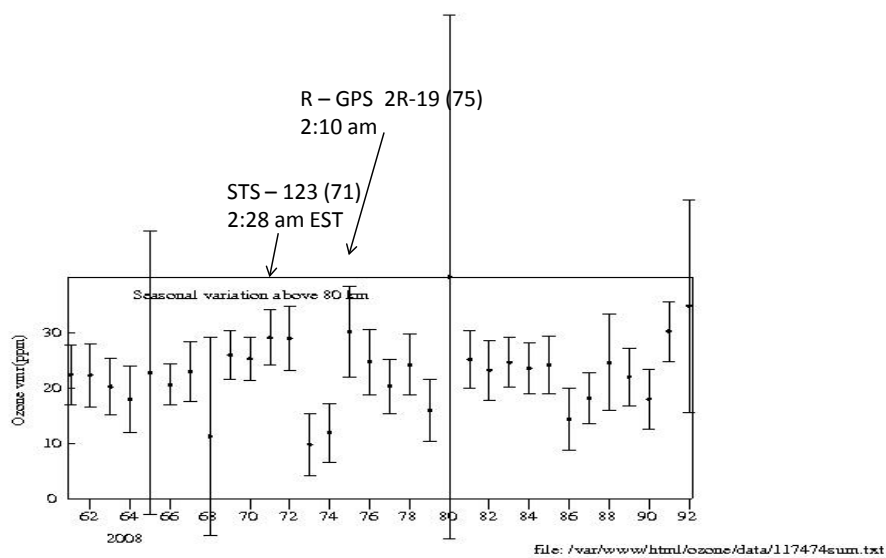
Jan 2008



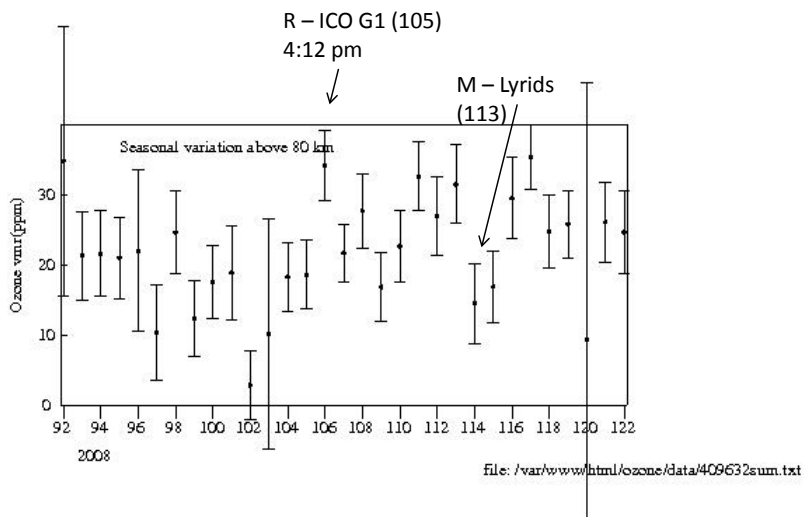
Feb 2008



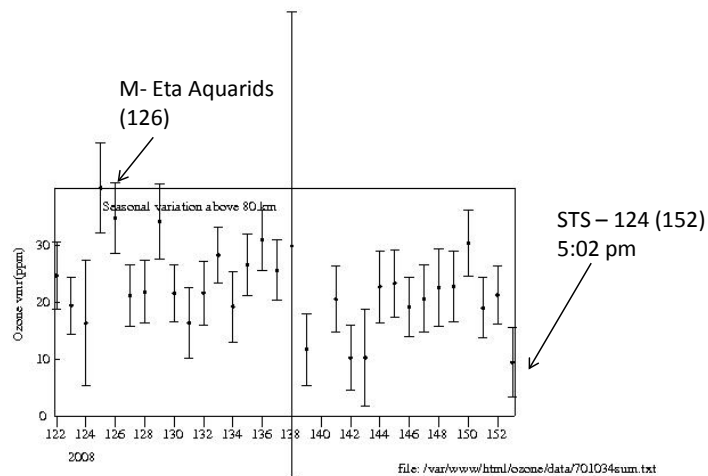
Mar 2008



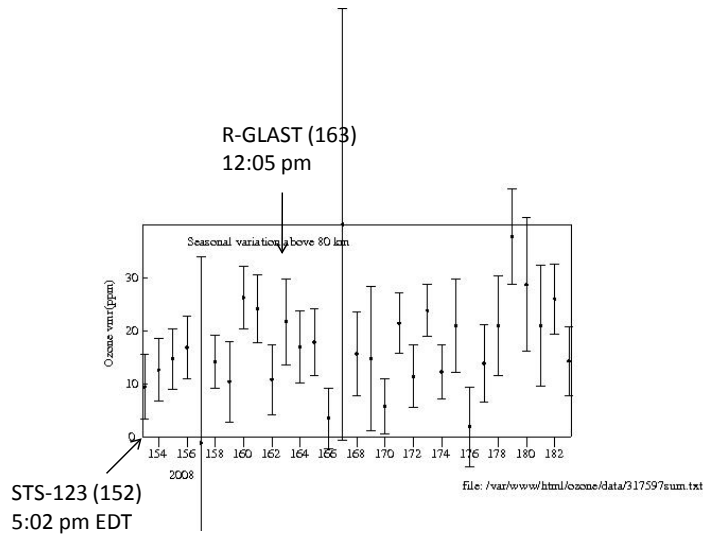
Apr 2008



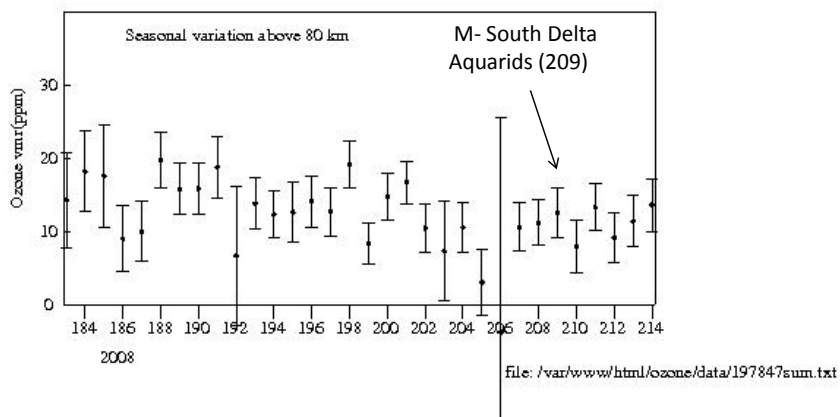
May 2008



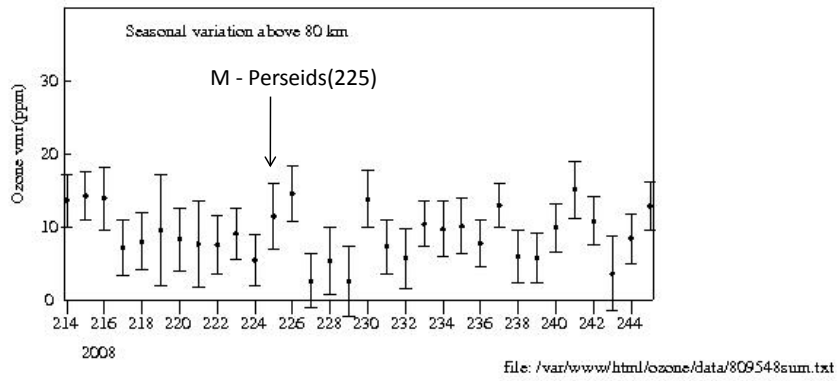
Jun 2008



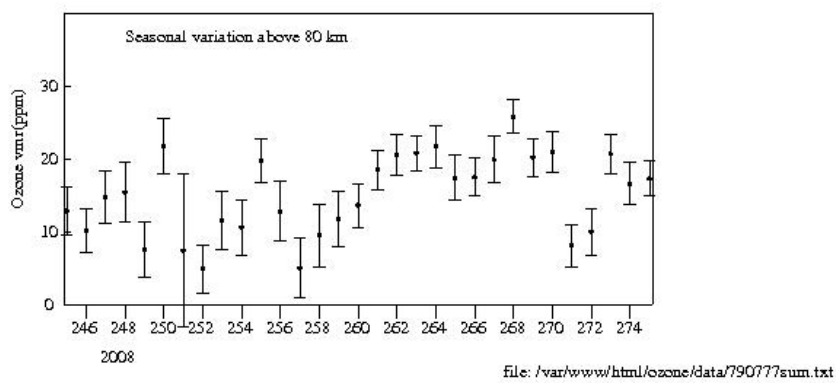
Jul 2008



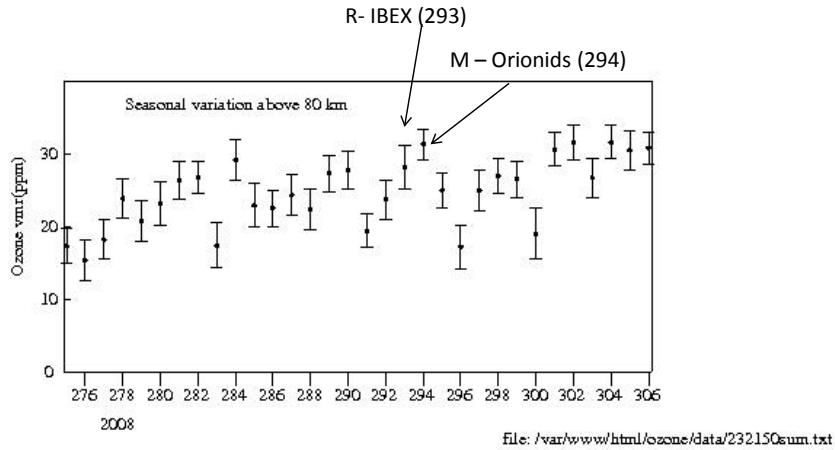
Aug 2008



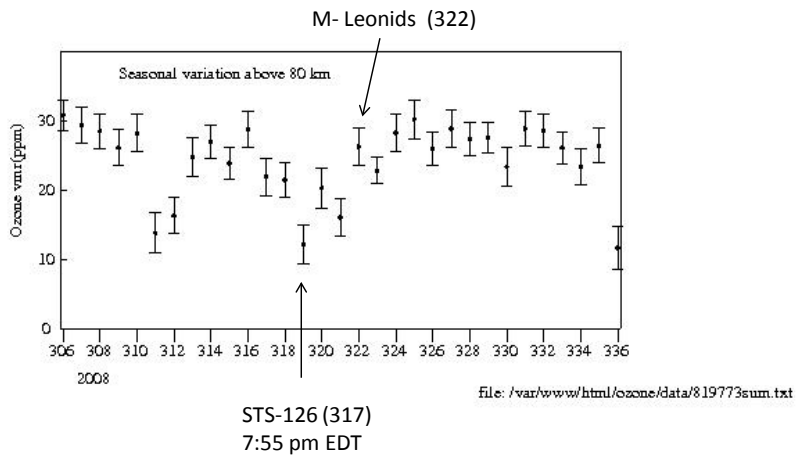
Sep 2008



Oct 2008

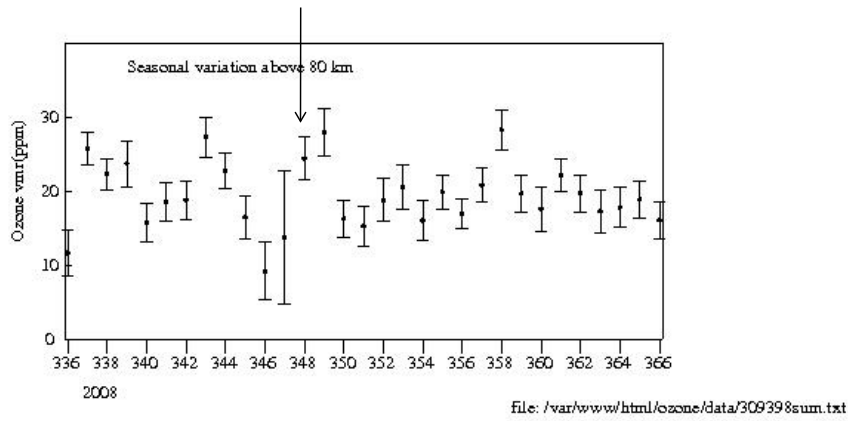


Nov 2008



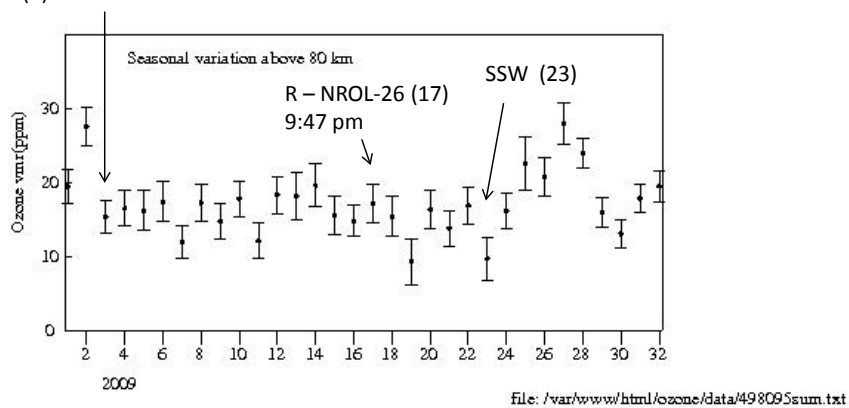
Dec 2008

M – Geminids (348)

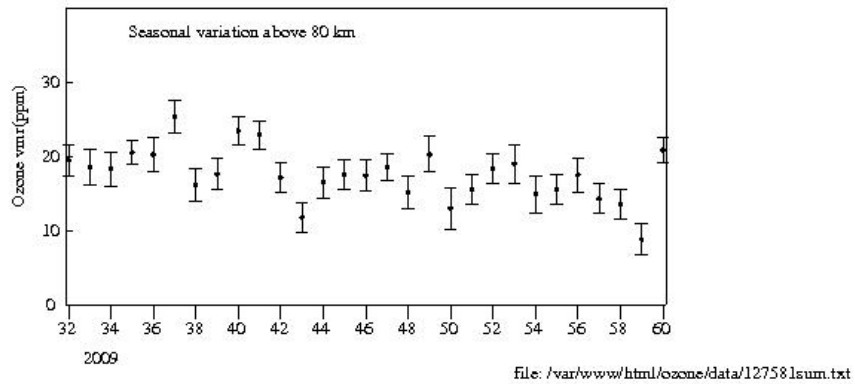


Jan 2009

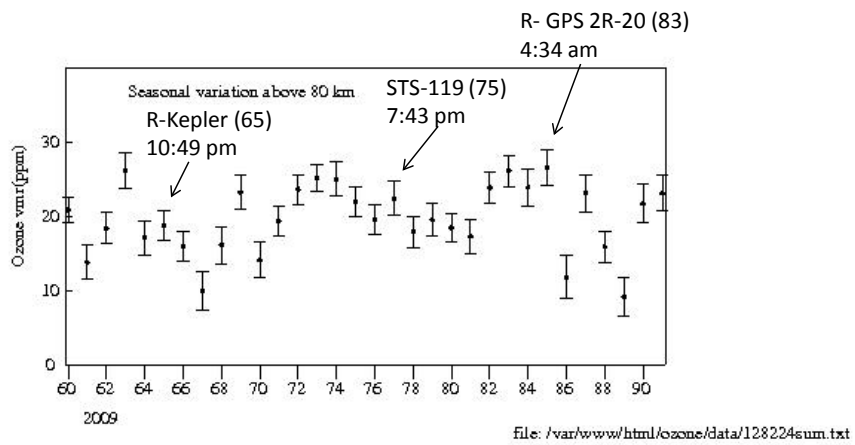
M – Quadrantids
(3)



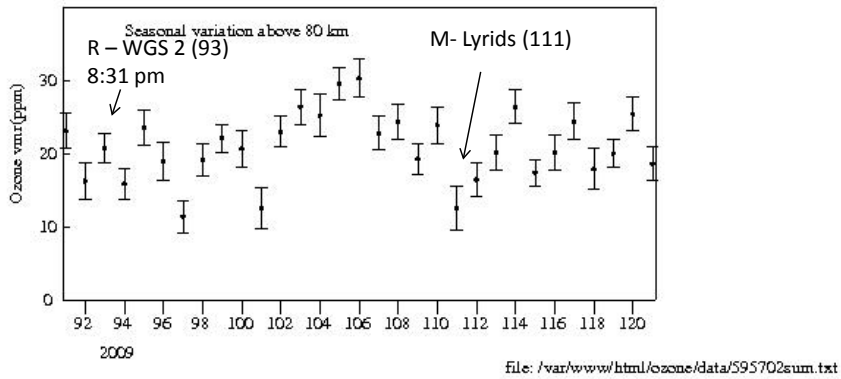
Feb 2009



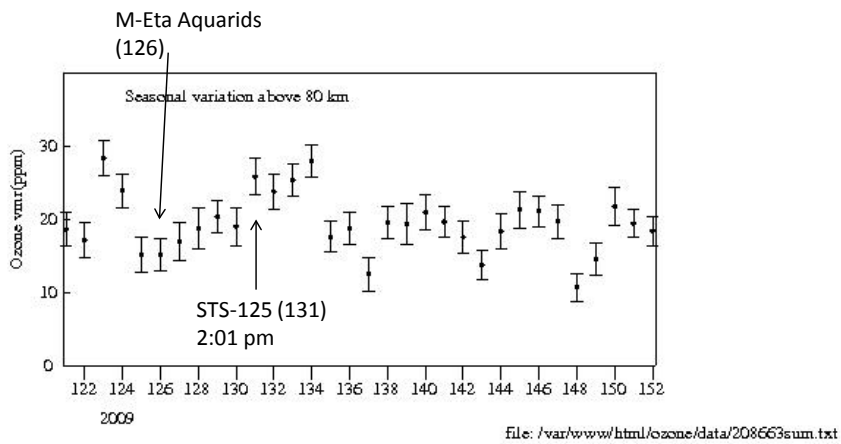
Mar 2009



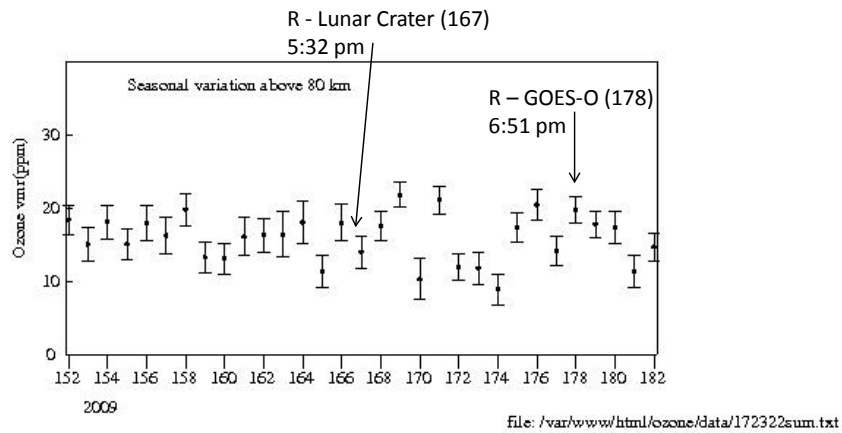
Apr 2009



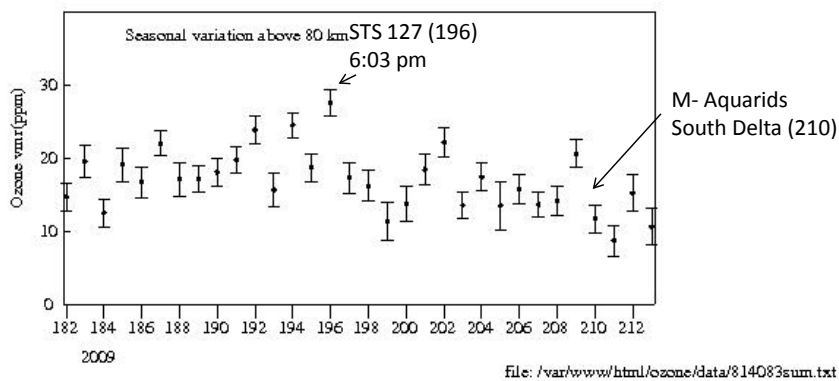
May 2009



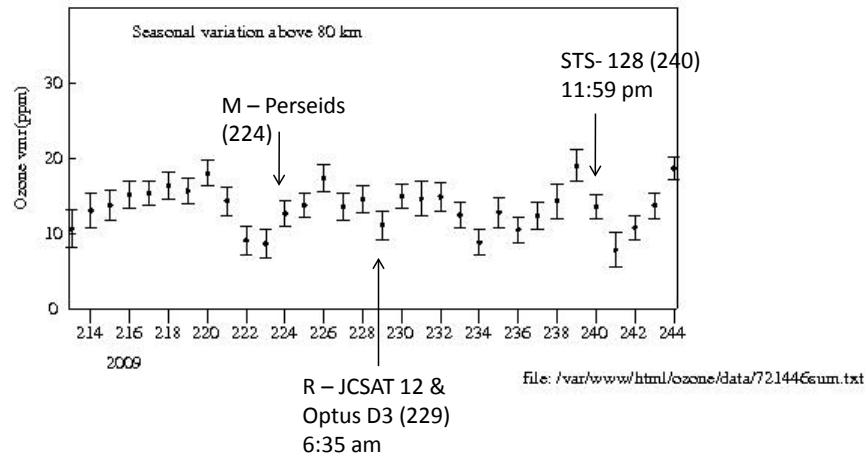
Jun 2009



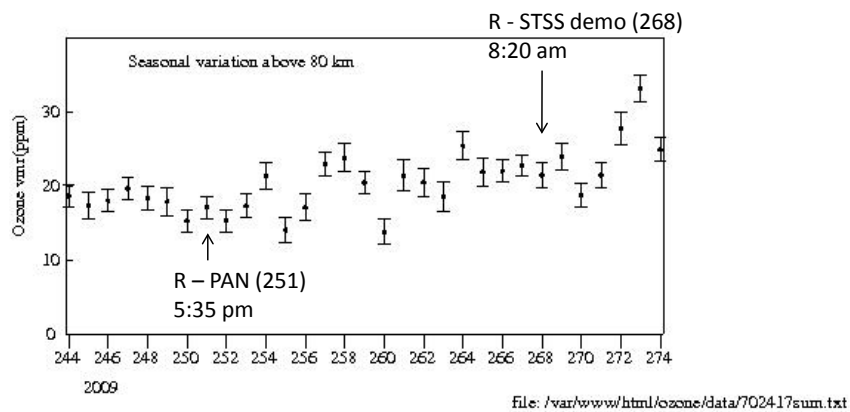
Jul 2009



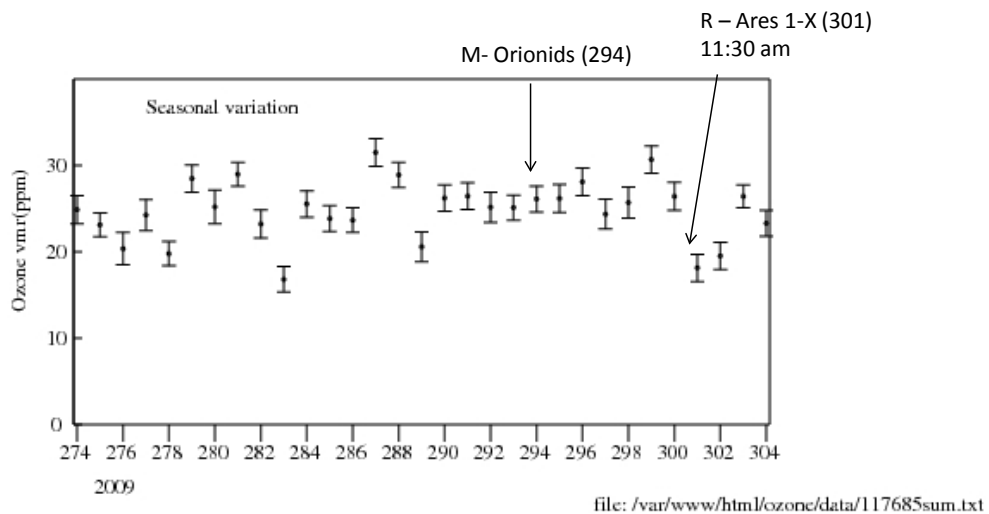
Aug 2009



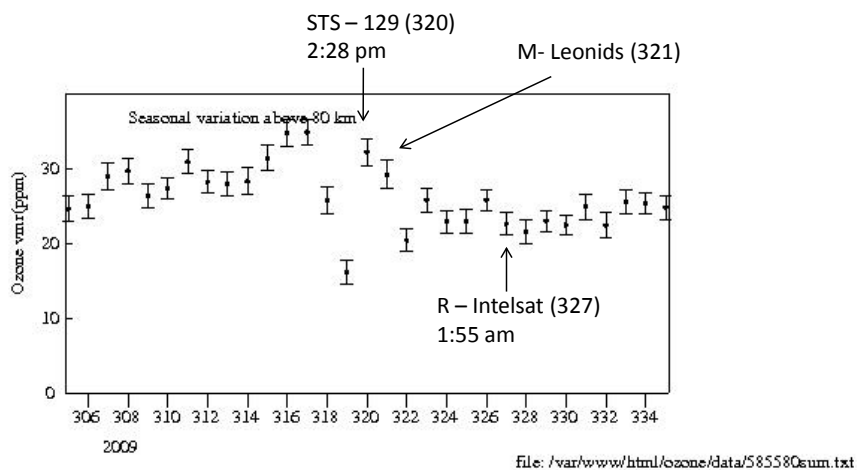
Sep 2009



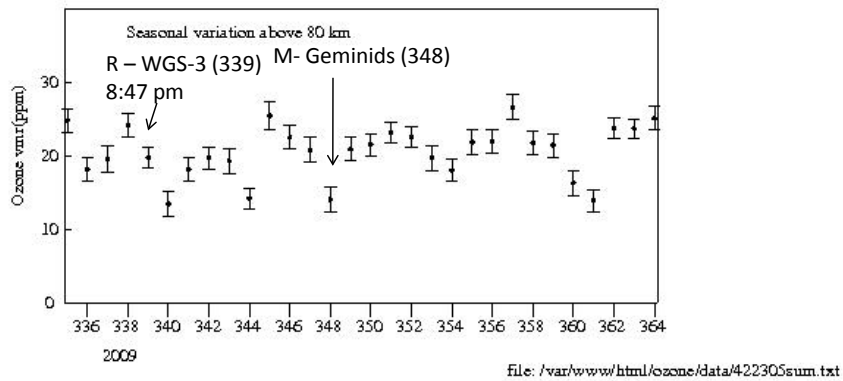
Oct 2009



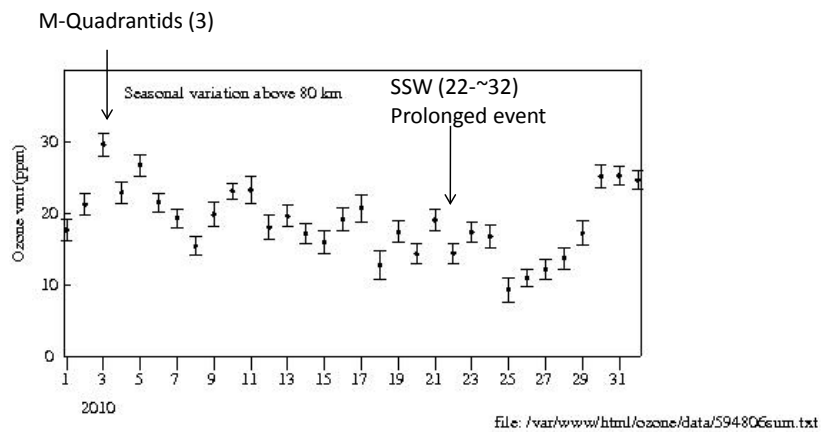
Nov 2009



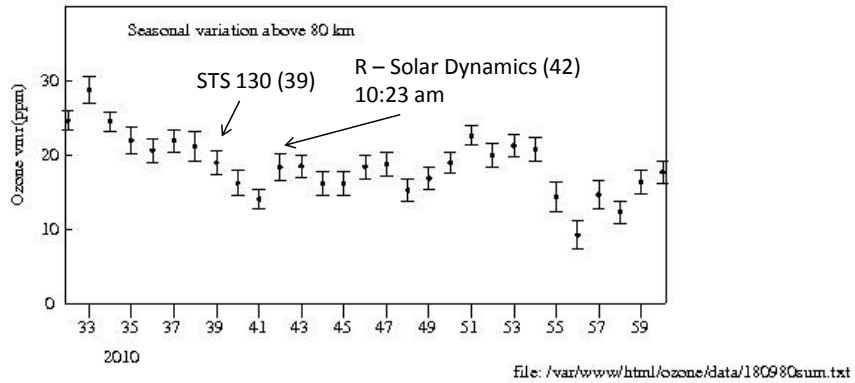
Dec 2009



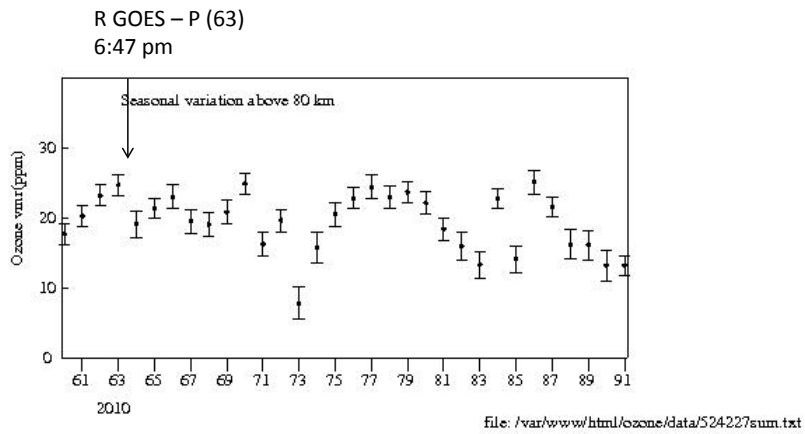
Jan 2010



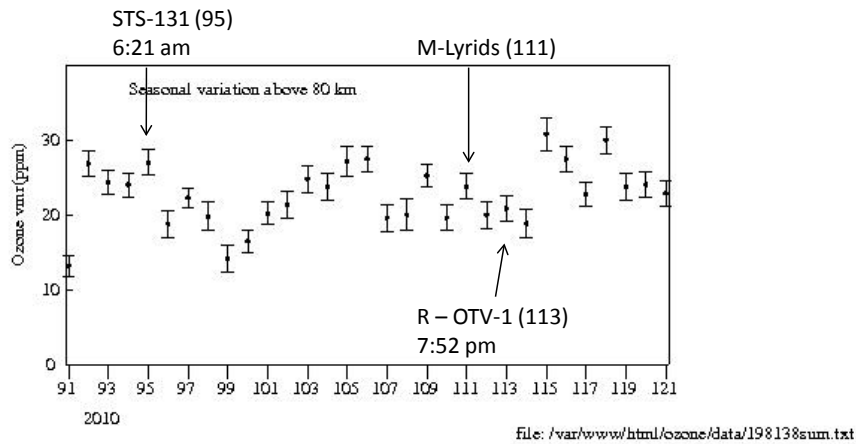
Feb 2010



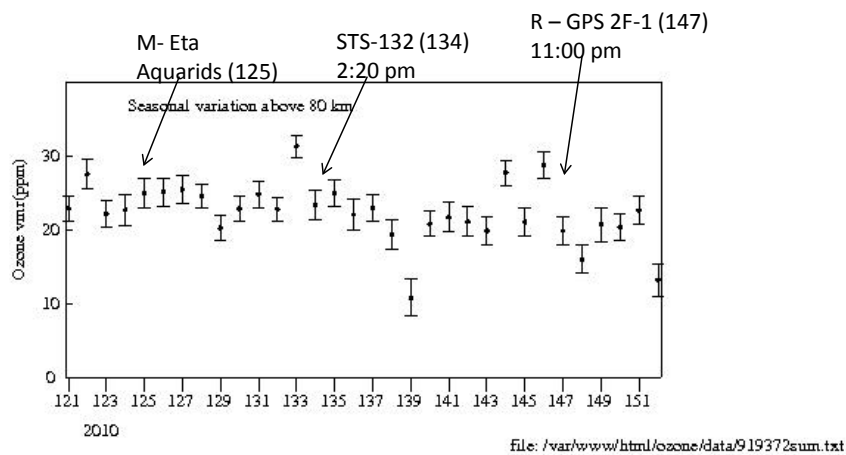
Mar 2010



Apr 2010

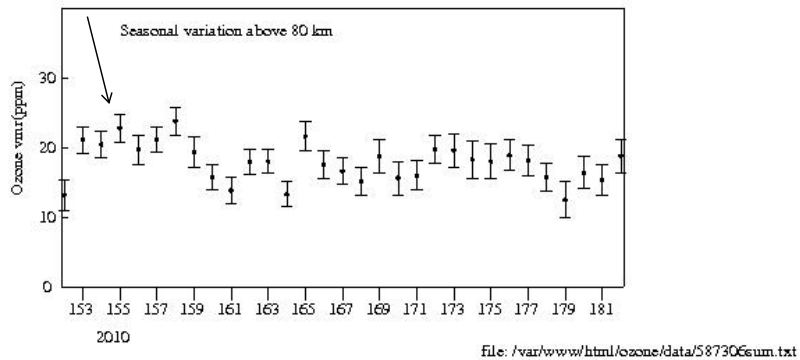


May 2010

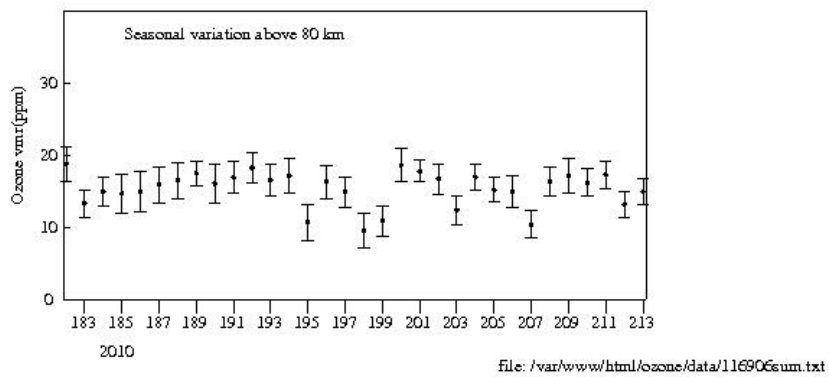


Jun 2010

R – Dragon (155)
2:45 pm



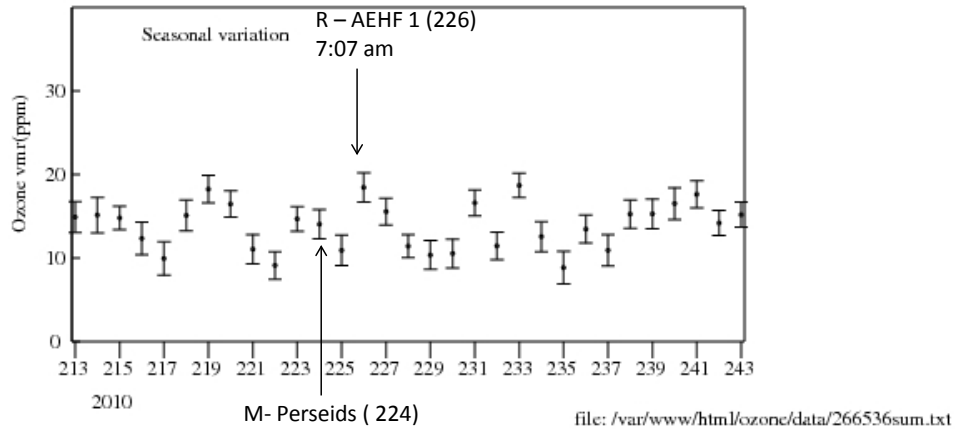
Jul 2010



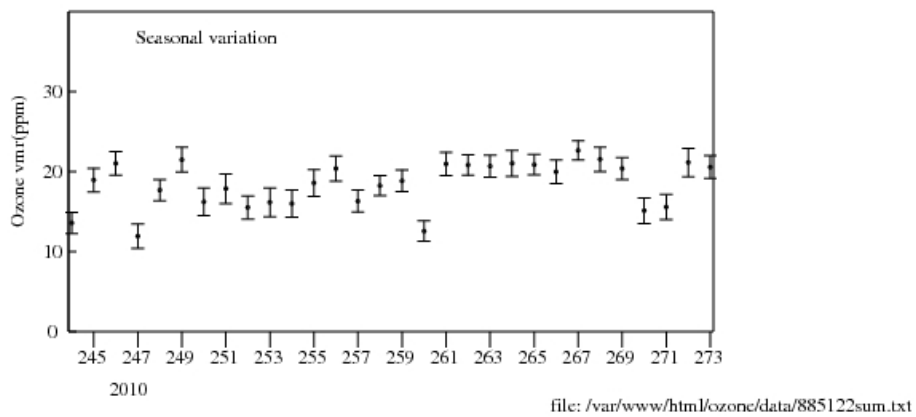
Aug 2010

P (226)

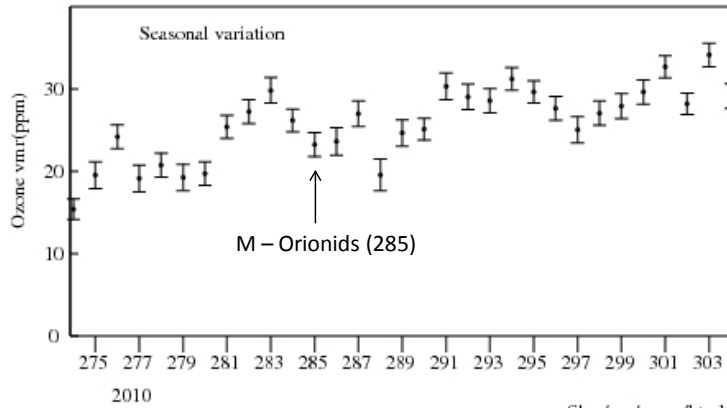
Proton flux = 14



Sep 2010

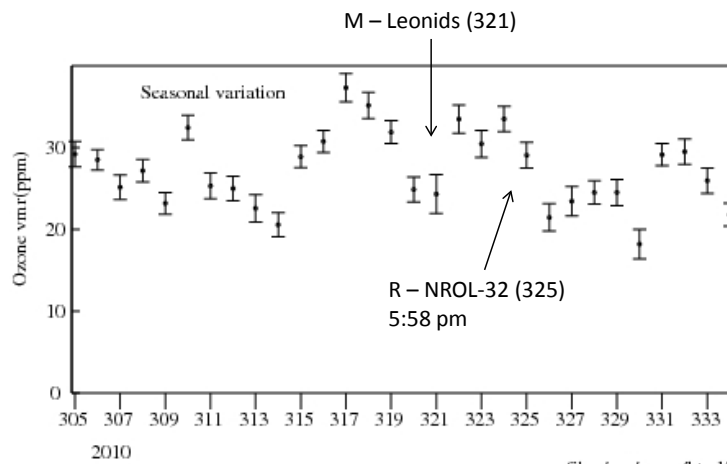


Oct 2010



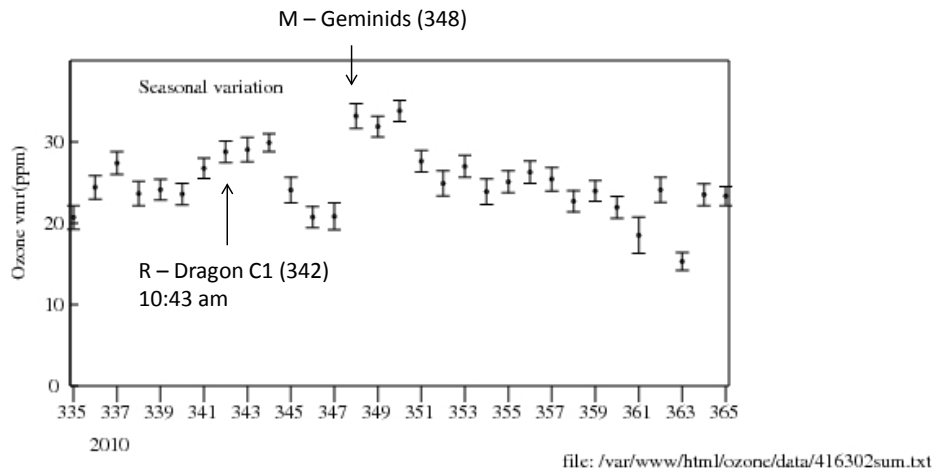
file: /var/www/html/ozone/data/138323sum.txt

Nov 2010

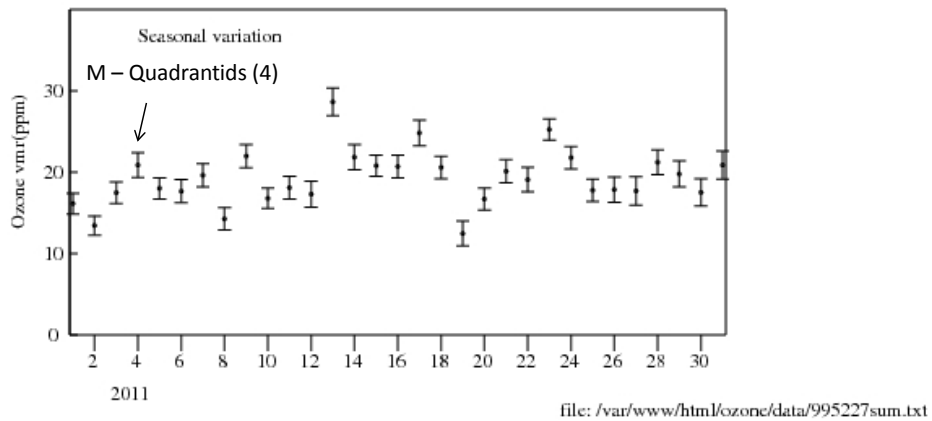


file: /var/www/html/ozone/data/948394sum.txt

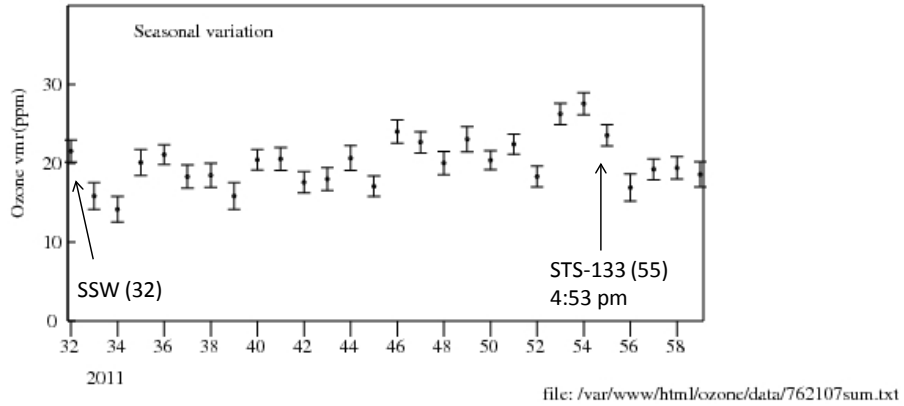
Dec 2010



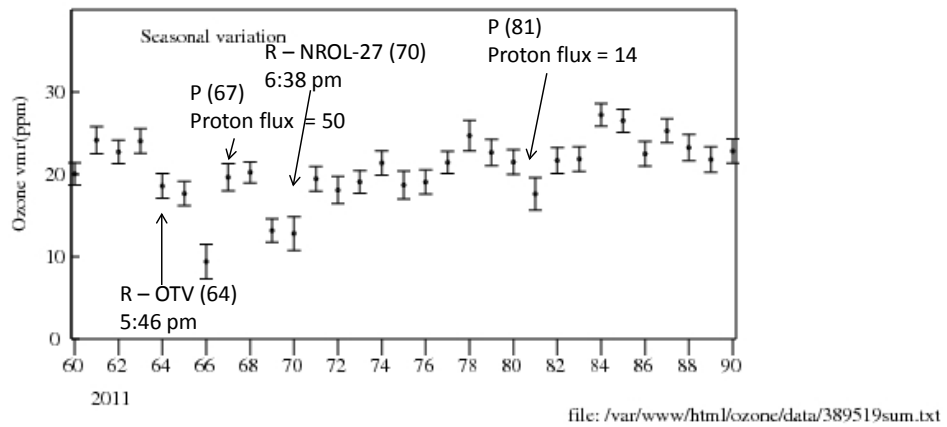
Jan 2011



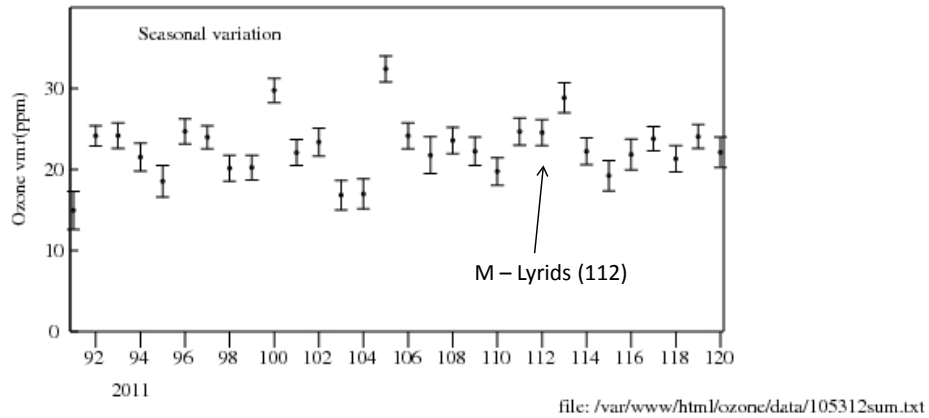
Feb 2011



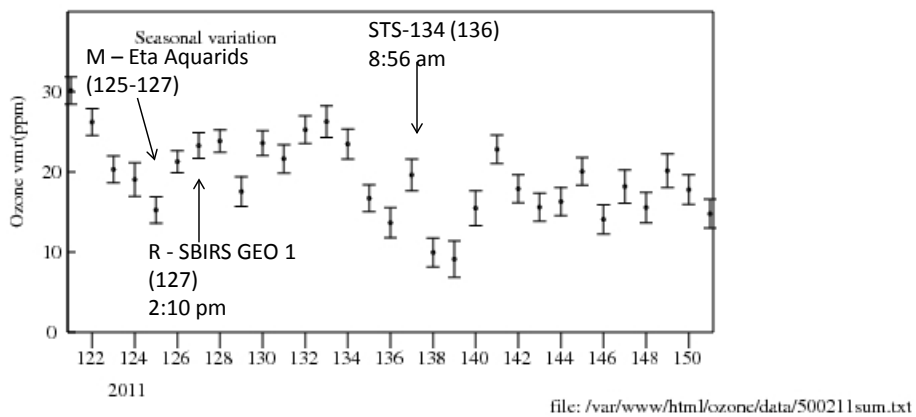
Mar 2011



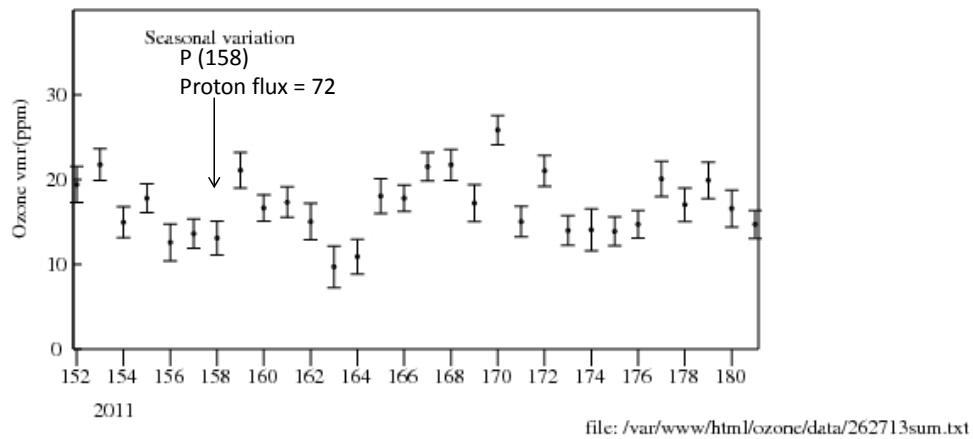
Apr 2011



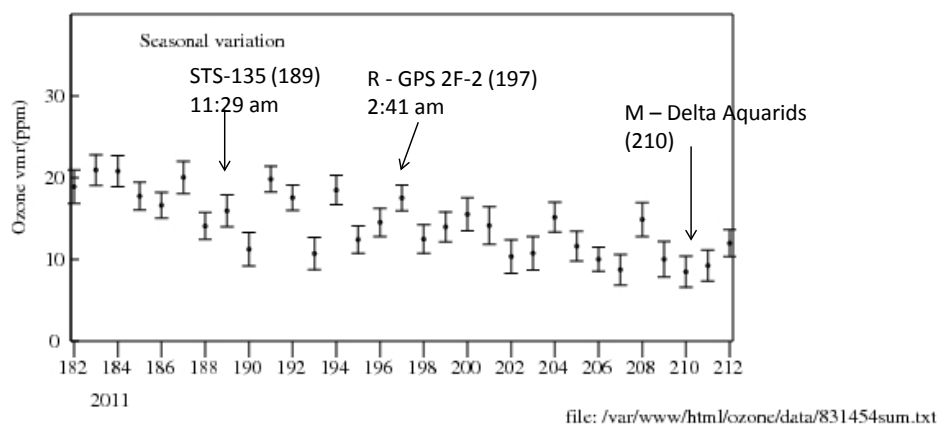
May 2011



June 2011



July 2011



Aug 2011

