

OSPC Pan Am Games Experience

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Photo: Arnold Ashton



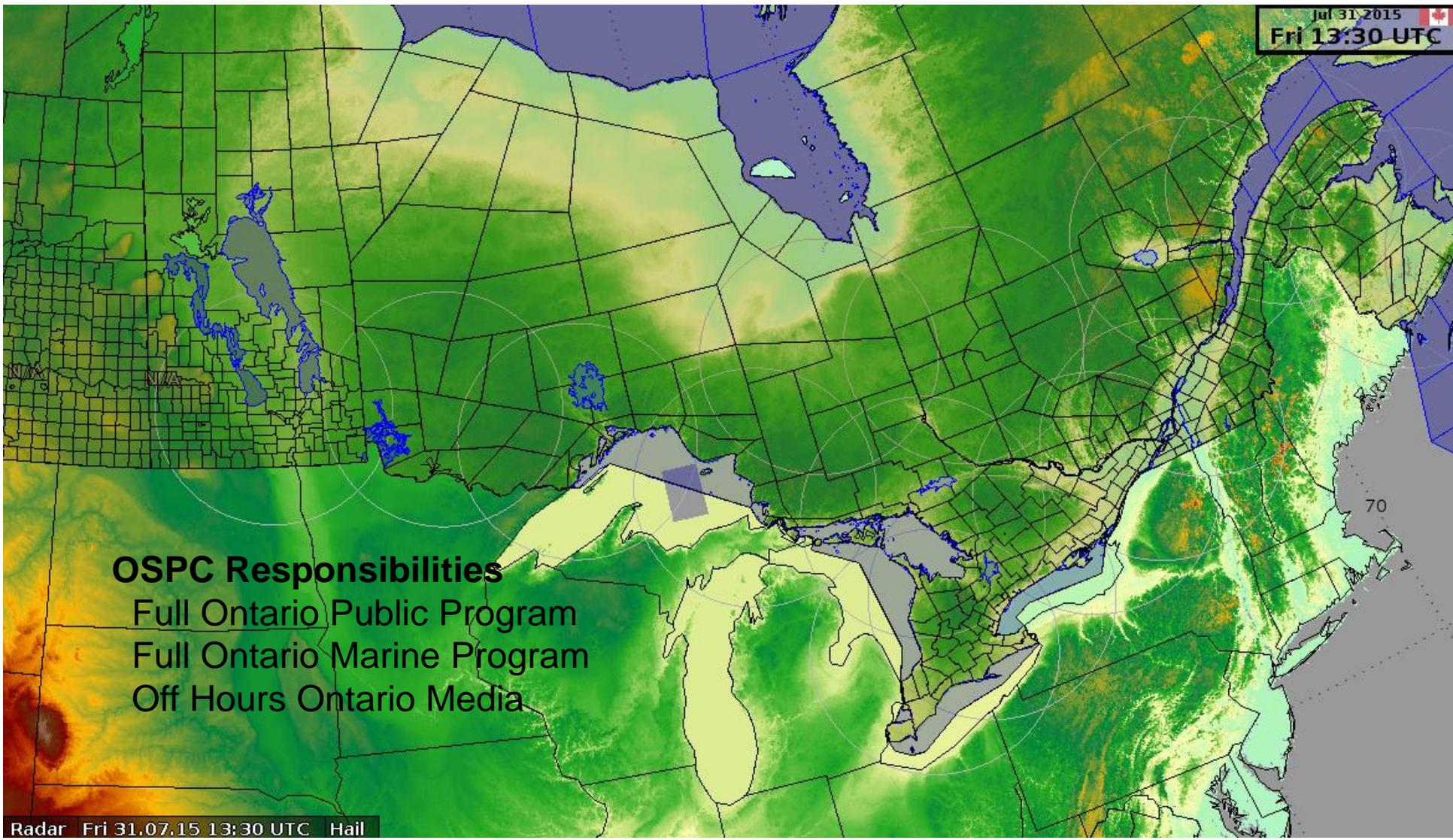
Outline



- OSPC Regular Responsibilities
- Mesonet and Data Sources
- Products, Services, Facilities, Workflow
- Convective Weather Prog
- Pan Am Weather



OSPC Regular Responsibilities



OSPC Responsibilities

- Full Ontario Public Program
- Full Ontario Marine Program
- Off Hours Ontario Media

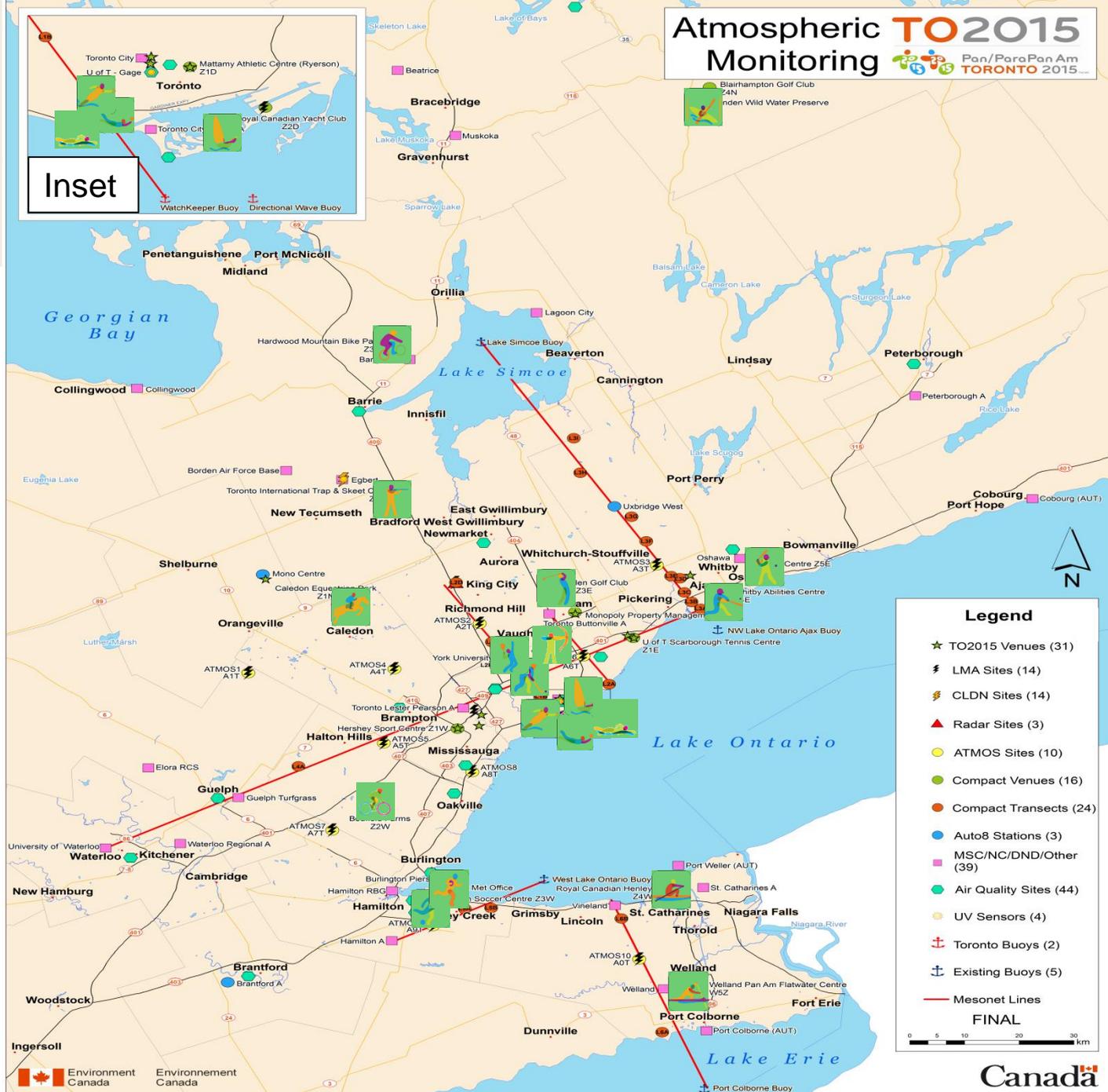
Pan Am Games Mesonet



- King City
- Upper Air
- 09z, 15z, 18z, 21z
- BUF and DTX 18z soundings
- Total Lightning (SOLMA)
- Urban Model and HRDPS

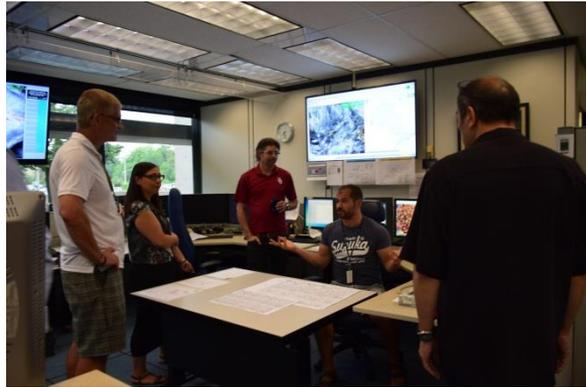
Pan Am Outdoors

OUTDOOR/weather-sensitive

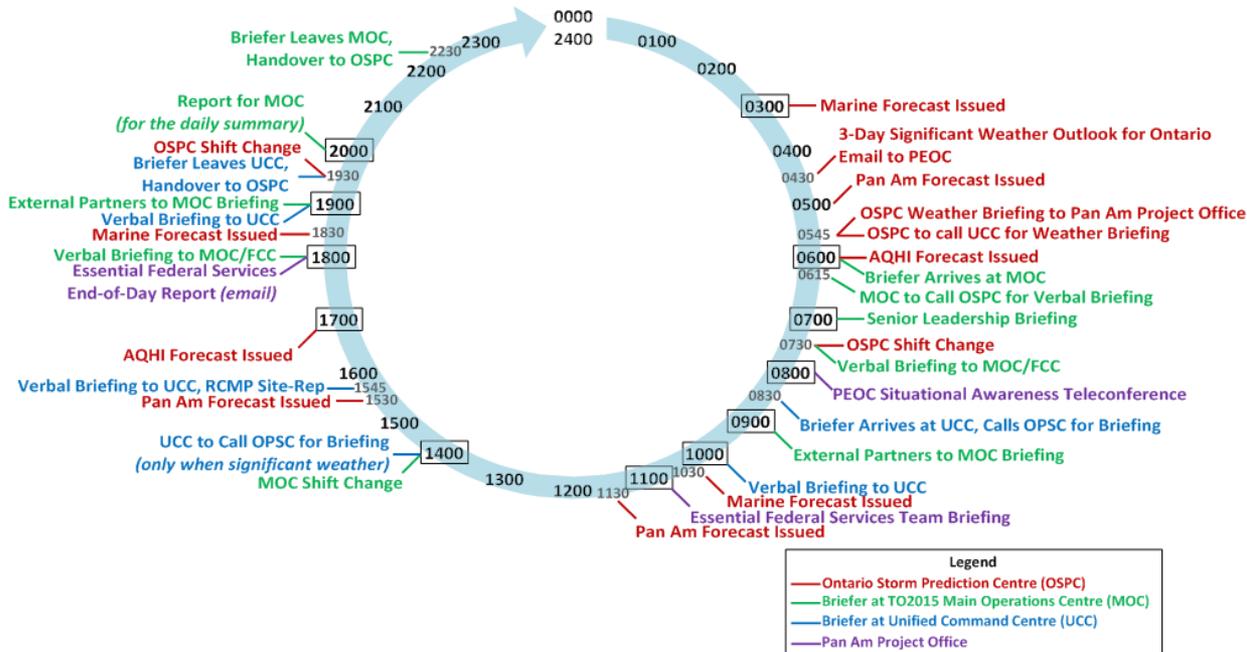




Pan Am Daily Operations Cycle



 Environment Canada / Environnement Canada
Pan and Parapan Am Games 2015
Daily Operations Cycle



- 2 Additional Day desks and 1 Night
- Venue Forecasts
- Briefings
- RSD interaction
- Program changes to
 - AQHI+
 - Heat Alerts

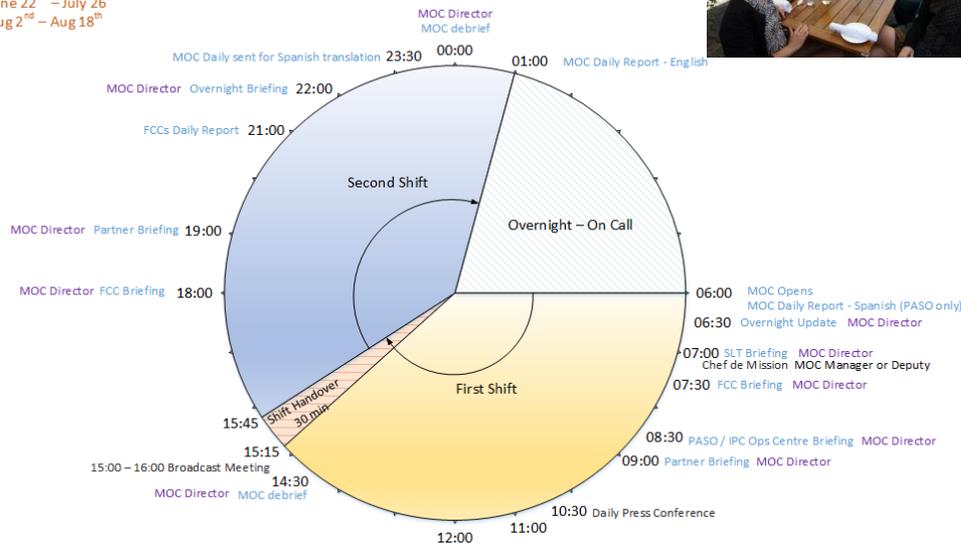


Pan Am Main Operations Centre (MOC)



MOC Briefing Cycle – Full Ops

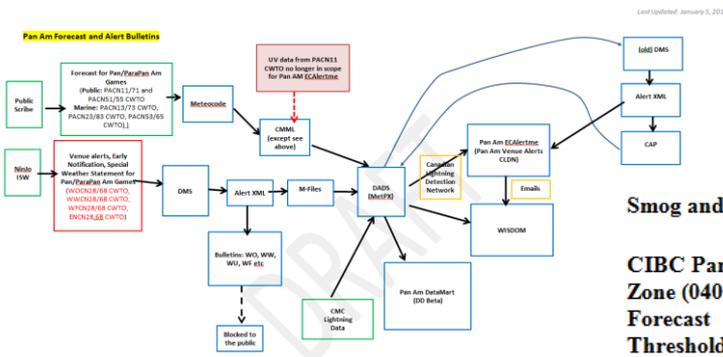
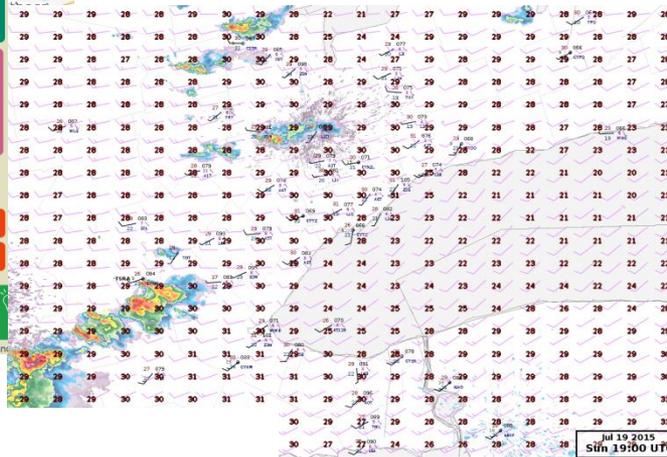
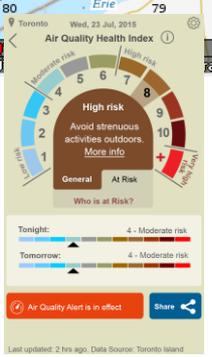
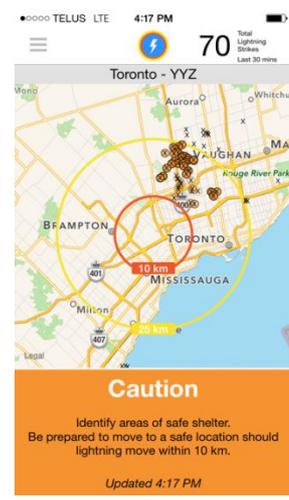
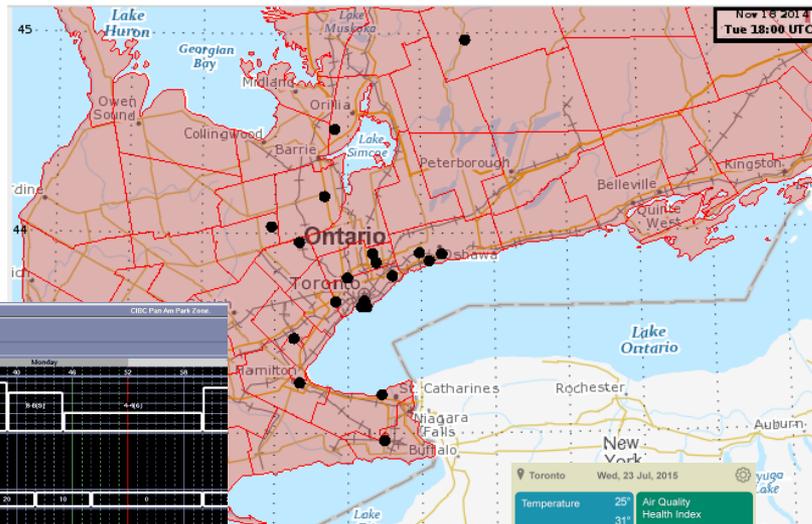
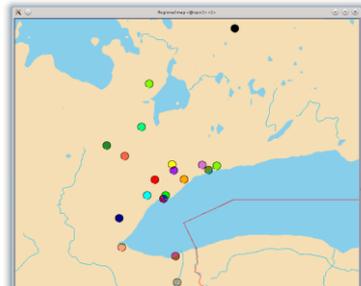
June 22nd – July 26th
Aug 2nd – Aug 18th



- 5 regular Briefings
- PanAm Officials
 - Game operations
 - Venue operations
 - Security
- Continual wx consultations
- Venue considerations
 - >30°C cooling stns
 - >50 km/h secure fence/tents
 - > 4 knots sailing



Pan Am Products and Tools

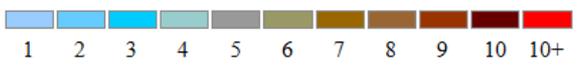


Smog and air health advisory in effect.

CIBC Pan Am Park Zone (040048) AQHI Forecast Threshold Set: 7

Maximums

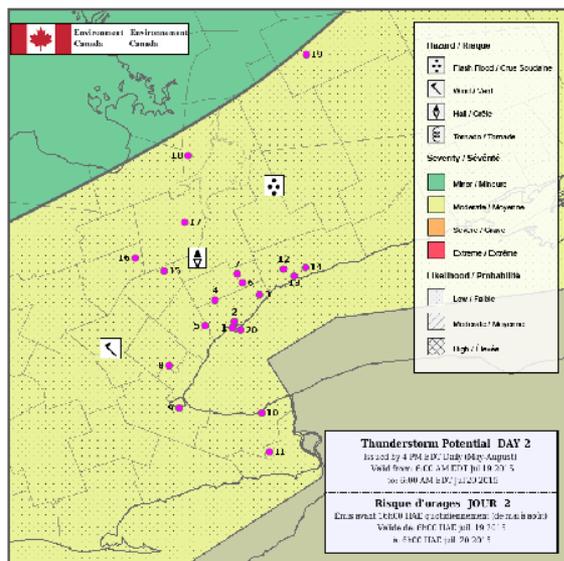
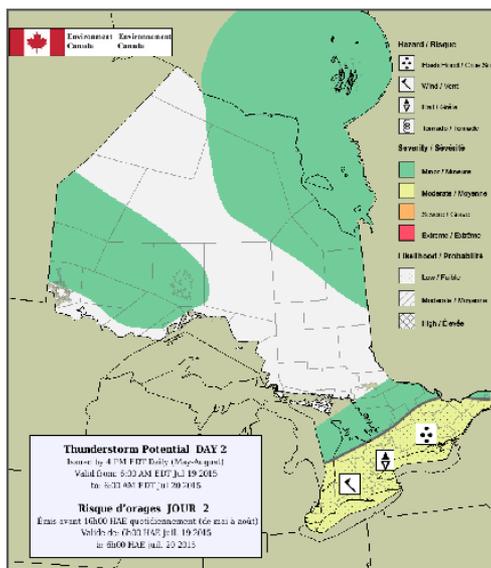
Monday 7 - High Risk



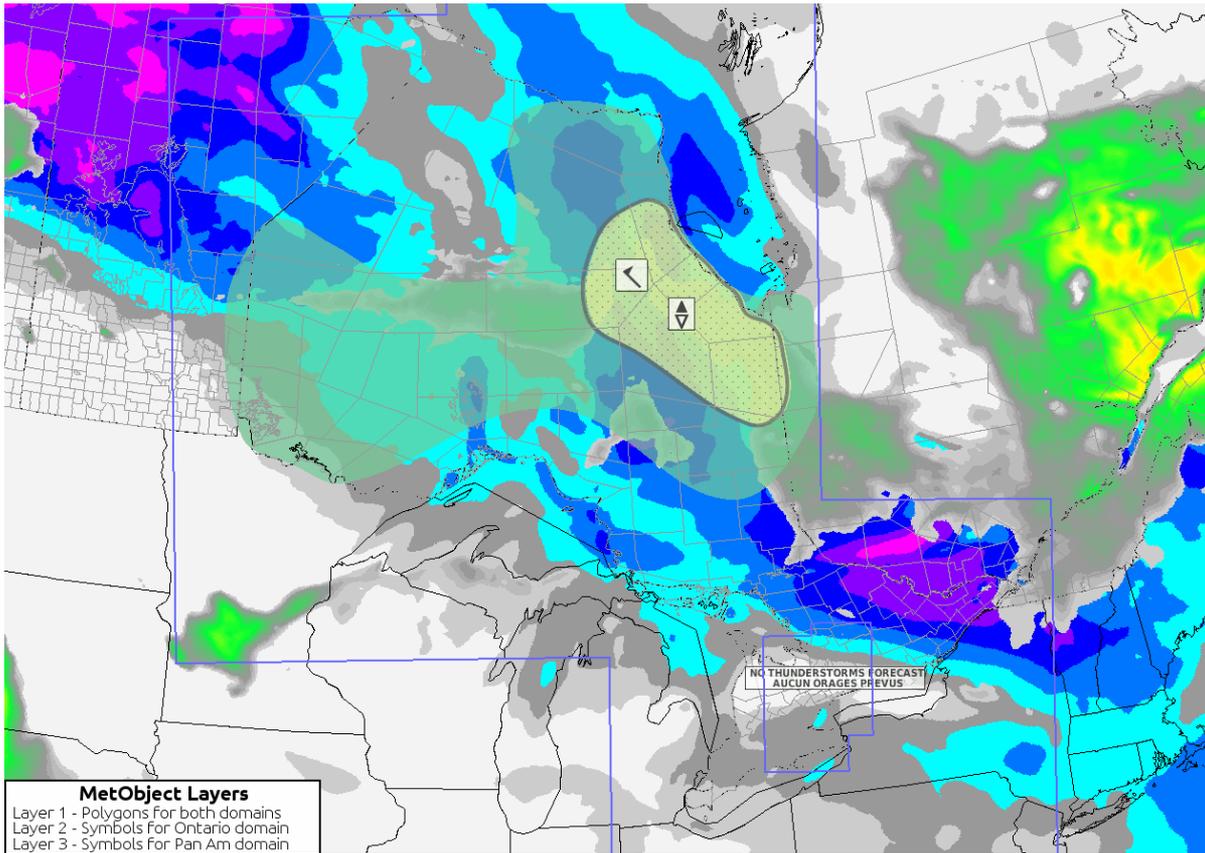


Convective Weather Graphic

- Day1 and 2 issued once per day
- Ontario and Pan Am area
- Similar to old SPC but with likelihood categories
- A useful operational endeavour that improves anticipation of convective threats.

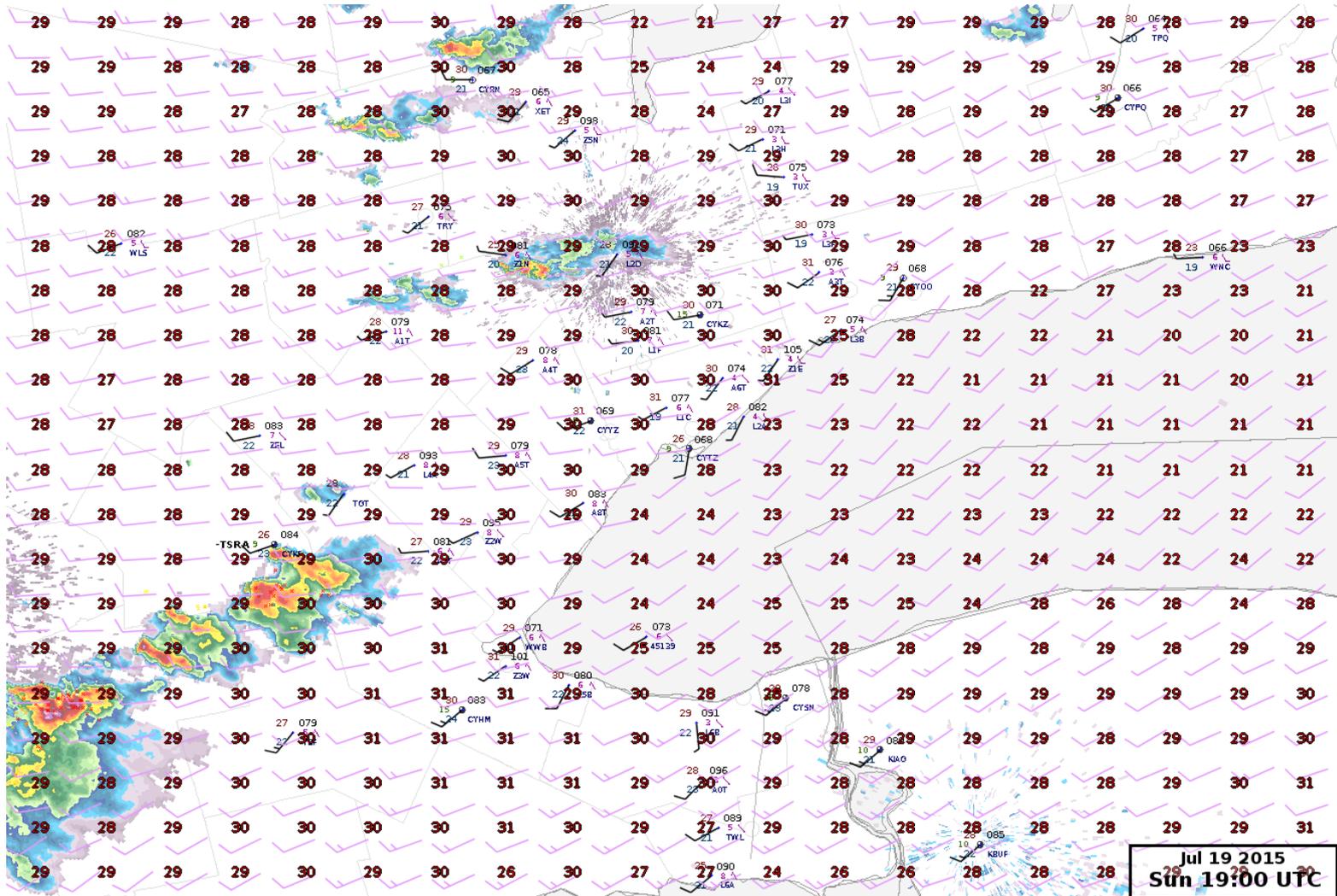


Convective Weather Workflow



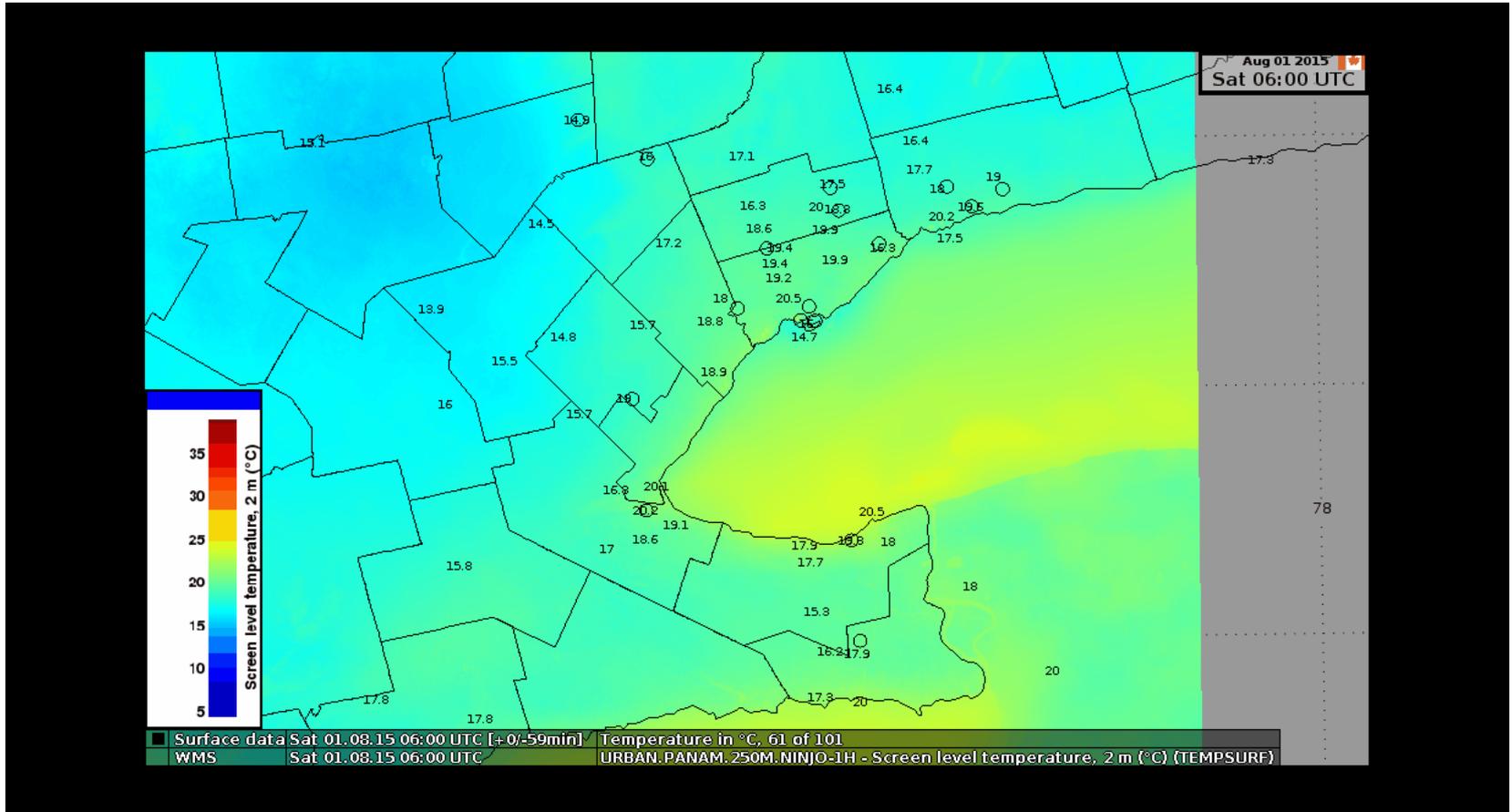
- Set Loop length to period of coverage
- Utilize fields like MLCAPE, 3 hr QPF and MSLP for General Tstms
- Utilize fields like Bulk Shear, SCP and STP for SVR categories
- Can manipulate areas while loop is in motion

NinJo Scenes



- Model temps, model winds, sfc obs, radar

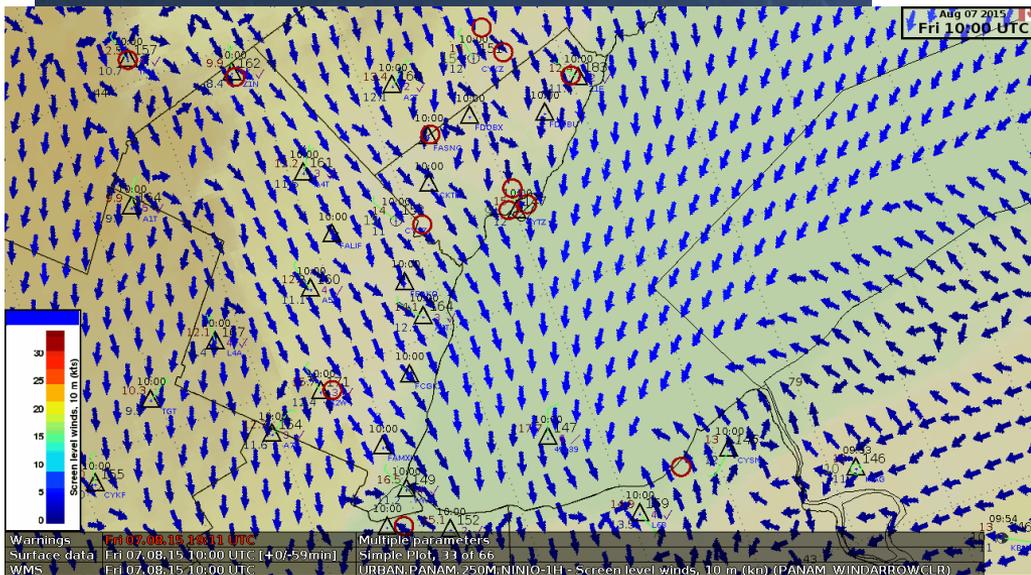
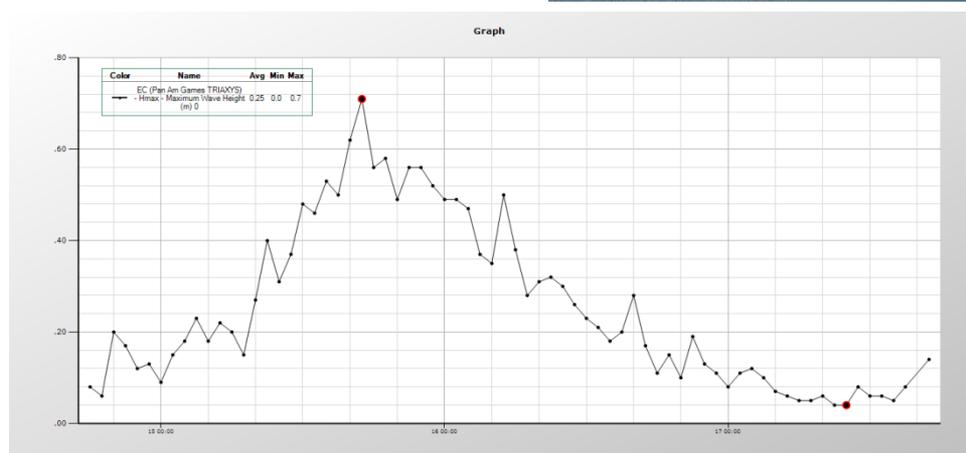
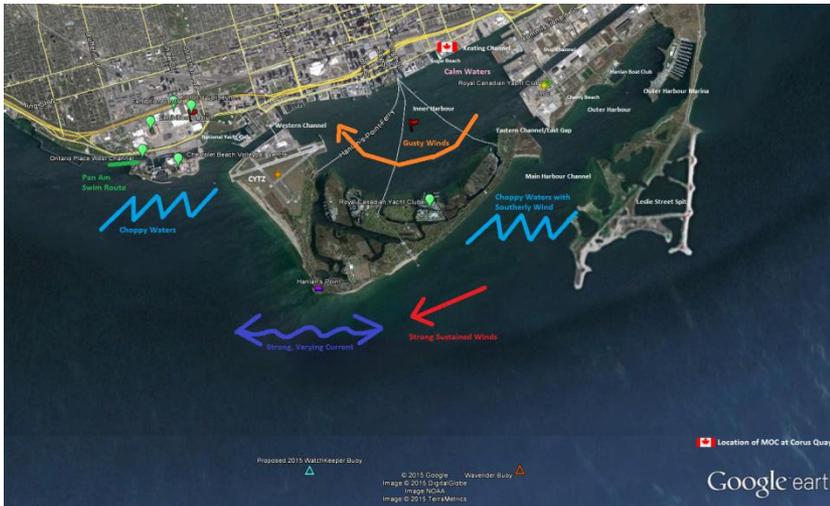
NinJo Scenes



- 250 metre urban model Temperatures



Near Shore Marine



- North wind has minimal fetch by which to affect wave height
- 10-15knot NELY synoptic flow can enhance lake breeze circulation (from south)



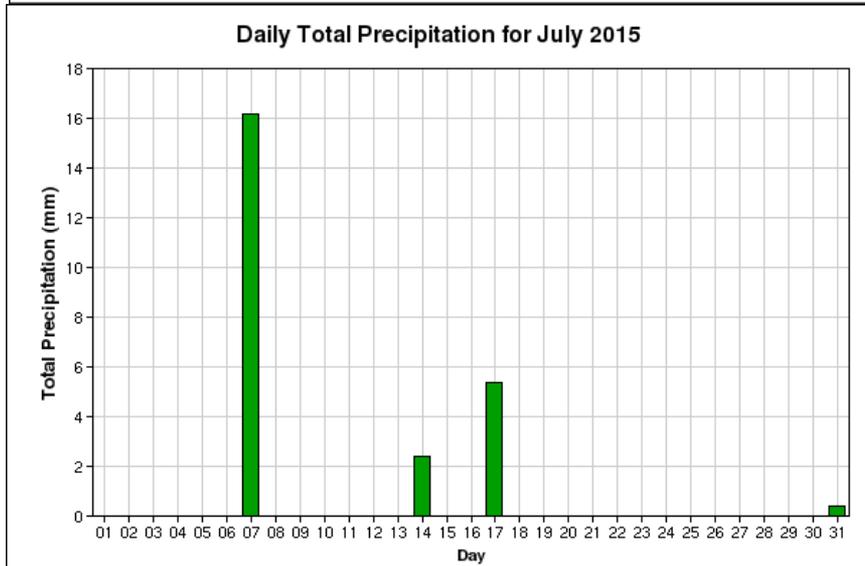
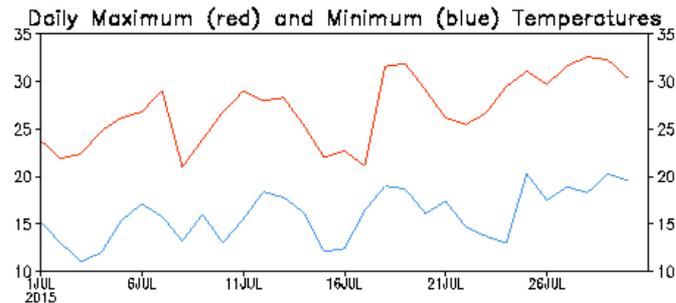
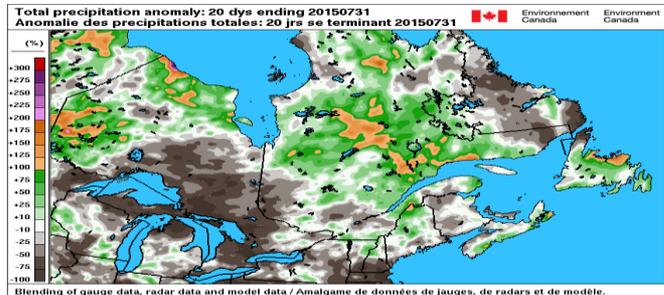
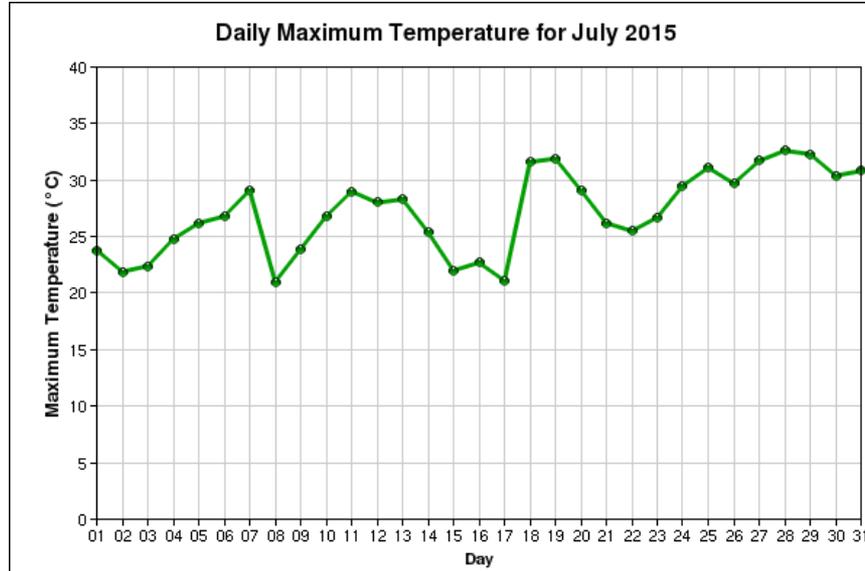
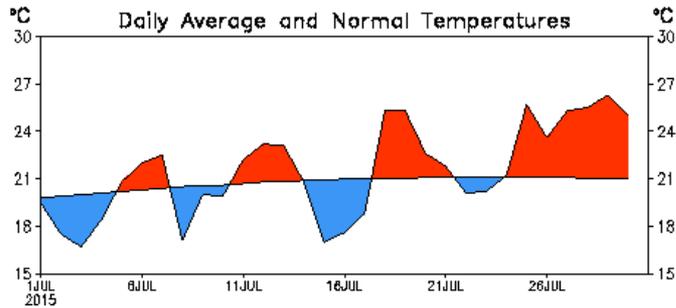
Pan Am Weather 10-26 July 2015

Generally Benign Wx Conditions



- YYZ July Wx

TORONTO/MALTON, CANADA



AVG July
Rainfall
74.4mm

Data updated through 30 JUL 2015

CLIMATE PREDICTION CENTER/NCEP



Benefits



- Cross Pollination with other EC and NWS offices and with Research
- Positive experience with plenty of enthusiasm
- Stronger link to Briefer offices resulted in greater appreciation for client needs.
- Graphical Wx product more preferable than current text bulletin ACCN10, plus workflow of operations improved
- Better appreciation for challenges of near shore marine forecasts

