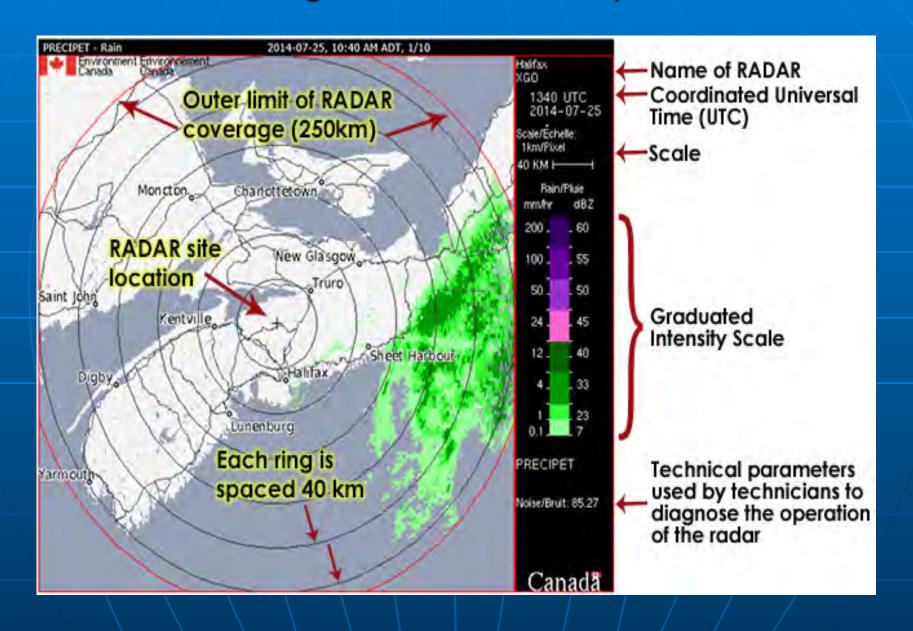
Radar Interpretation



Radar Sites in Canada



Regional Radar Example



Interpreting Radar Images

Figure 3
Influence of
Terrain on Radar
Reception



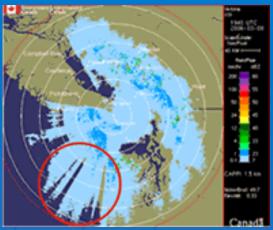
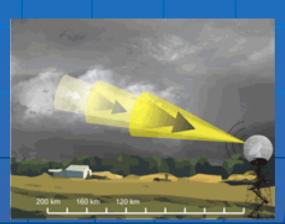


Figure 4 **Beam Attenuation**



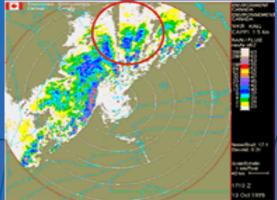
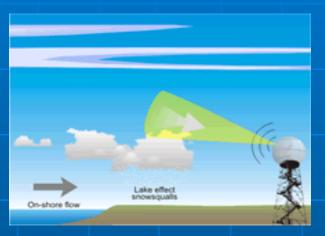


Figure 5 Overshooting Beam



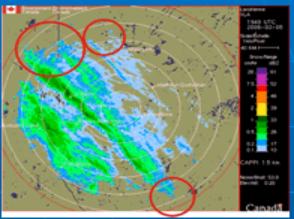


Figure 6
Virga



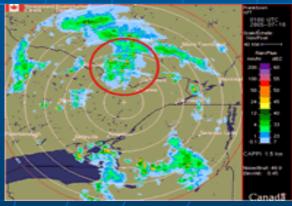
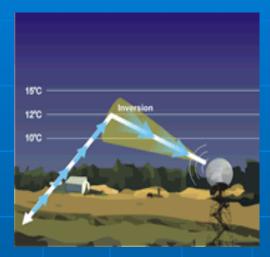
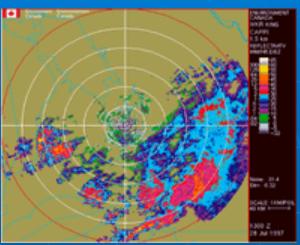


Figure 7 **Anomalous Propagation**





Ground Clutter

Figure 8 **Electromagnetic Interference**



WRM Assignment #3

Name(s)

Review of May 28, 2012 situation

See slides 8 to 14

Thunder Bay – Extreme Precipitation (May 28, 2012)





The total estimated cost of the Flood Event is \$100 million CAD

- A rainstorm on May 28, 2012 **caused flash flooding** in and around the city of Thunder Bay.
- Rain showers associated with a thunderstorm began around **midnight on May 28, 2012**.
- Thunder and heavy/moderate rain showers occurred for two hours, with 70 mm recorded at the Airport and 77 mm at the LRCA station next to the Neebing River.
- The heavy rains and flooding of May 28 **closely followed another heavy rain event** on May 24 of 51.5 mm.
 - The landscape in and around the City was saturated and subsequent days with more rain continued very wet ground conditions with a high water table.
- Available records suggest that the May 28 situation reached 100-year status more quickly than any other historical storm.

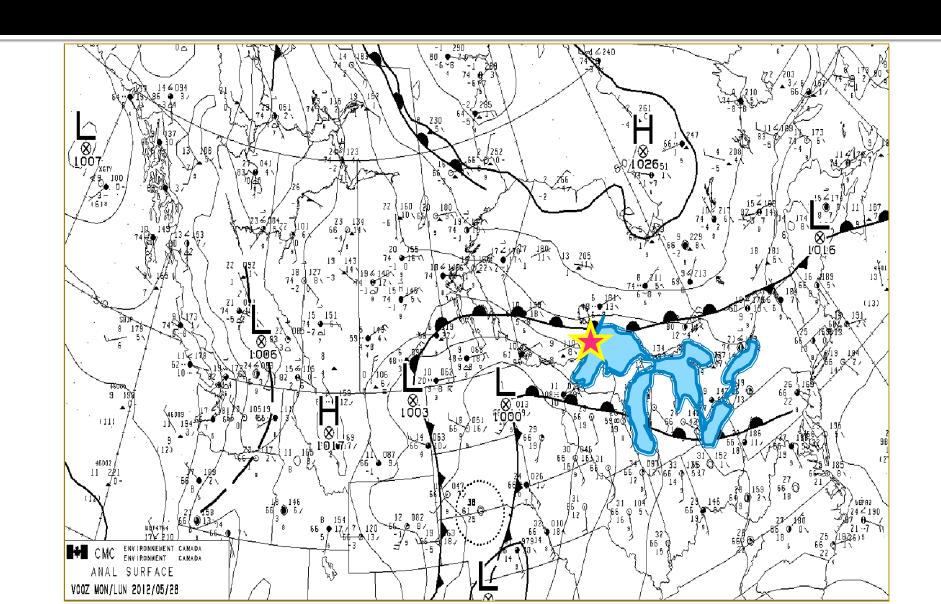
Weather conditions late evening on May 27

A low-pressure system and associated warm front moved from western Minnesota to southwest of Thunder Bay.

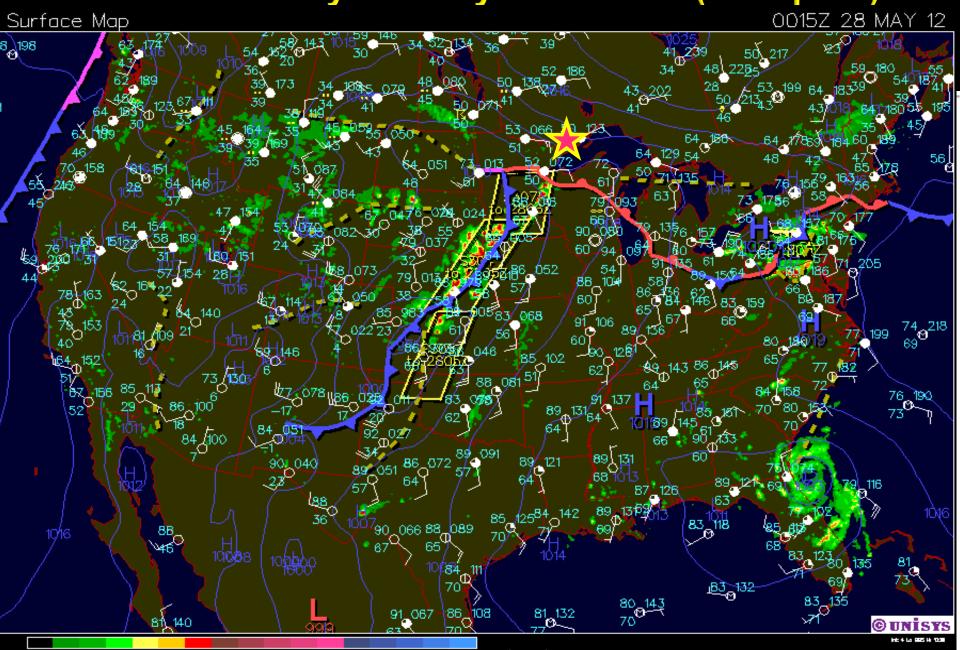
Environment Canada Forecast at 4 PM SUNDAY 27 MAY 2012

TONIGHT..SHOWERS WITH RISK OF A THUNDERSTORM. AMOUNT 10 TO 15 MM . . .

Surface analysis: May 27 at 2000 (8 p.m.)



Surface Analysis: May 27 at 2015 (8:15 p.m.)



Radar: May 28 at 0010 (00:10 a.m.)



Radar: May 28 at 0030 (00:30 a.m.)

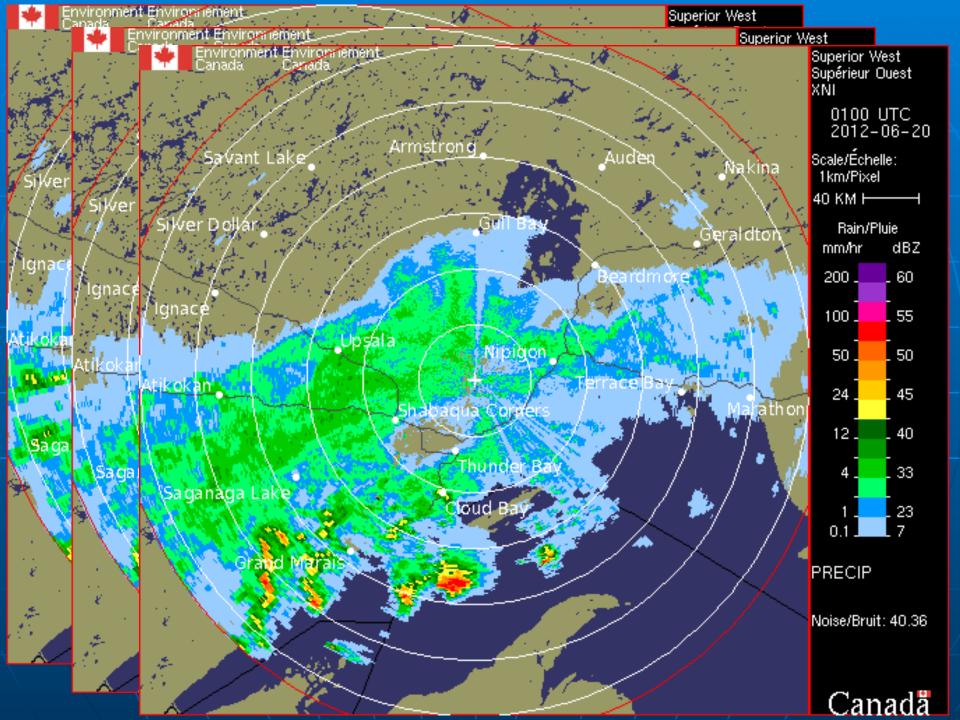




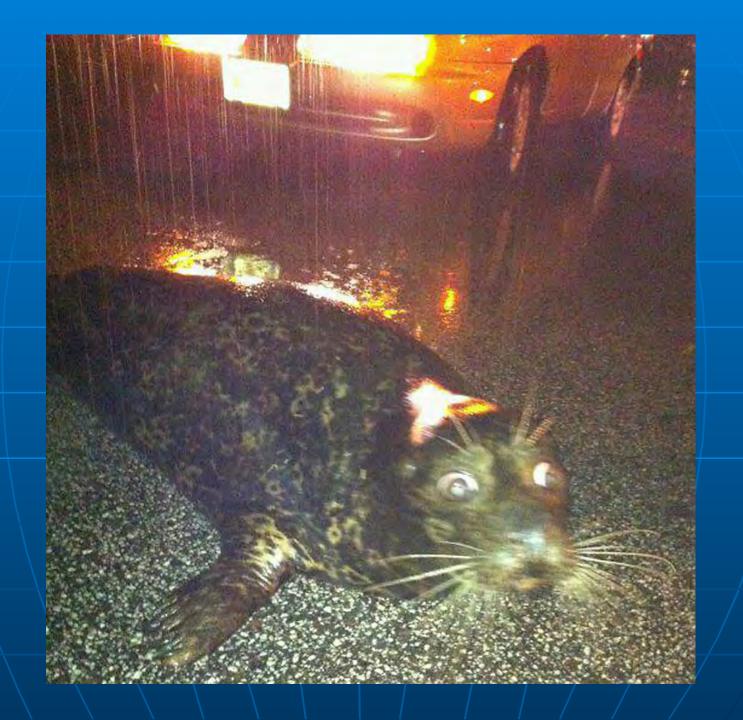
WRM Assignment #3

Name(s)

Scenario A Slides 16 (cascade) Slides 17, 18, 19









WRM Assignment #3

Name(s)

Scenario A (Slides 16 to 19)

What is your main concern(s)?

Who do you inform and in what order?

What information do you obtain?

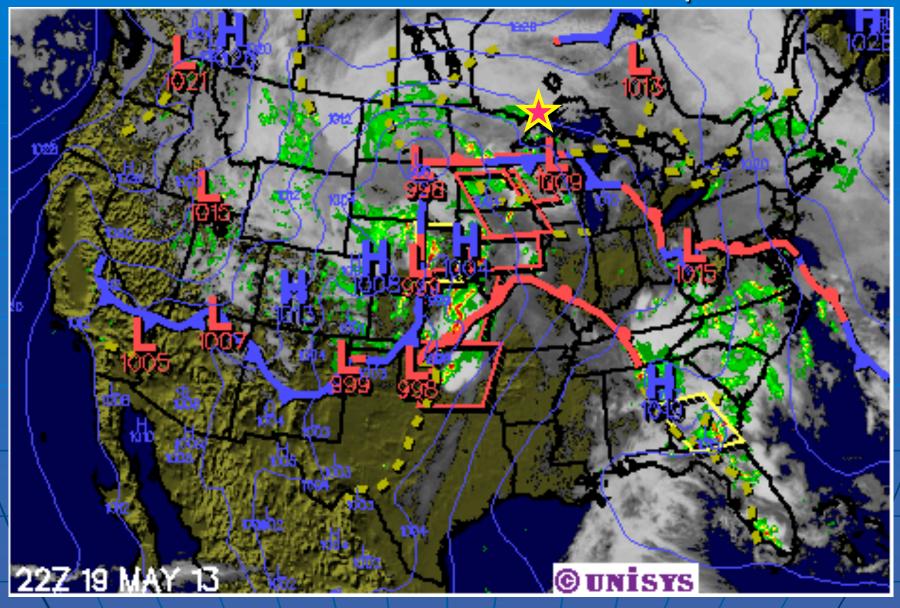
Scenario B (Slides 21 to 23)

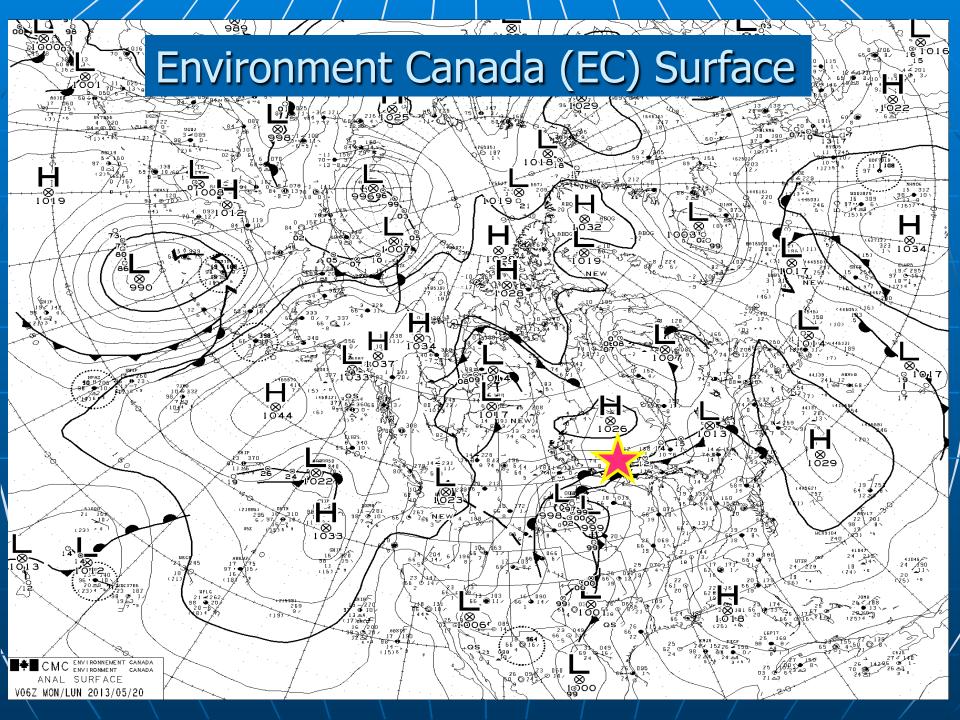
Is the "B" scenario similar to the previous situations?

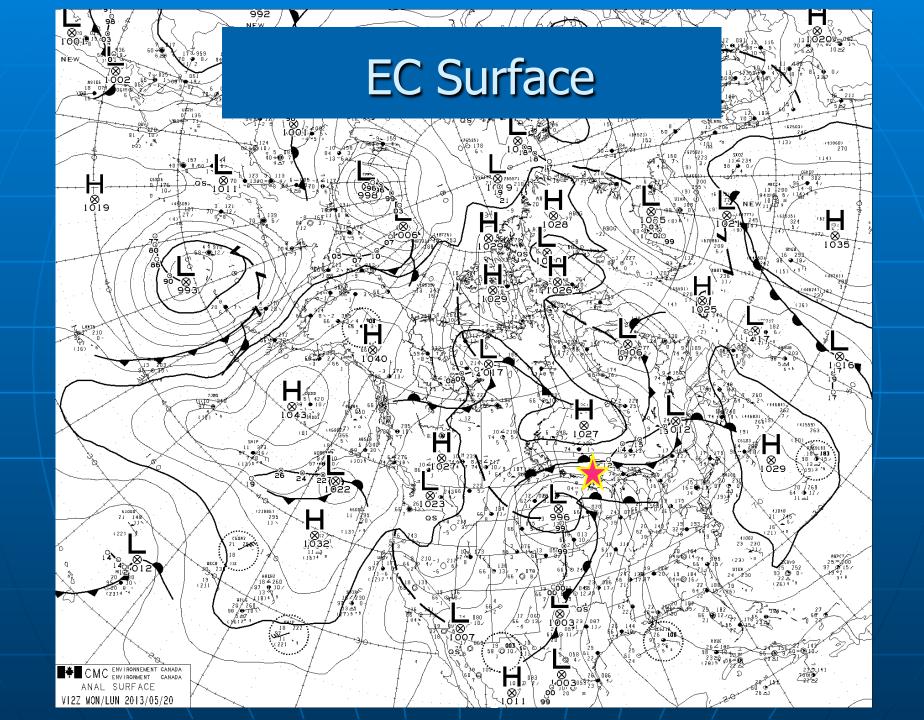
Differences?

Discuss in the context of the above events your brief list of recommendations for planning and improvements in infrastructure

Current American Surface Map









Done 9 Likes 4 Comments

