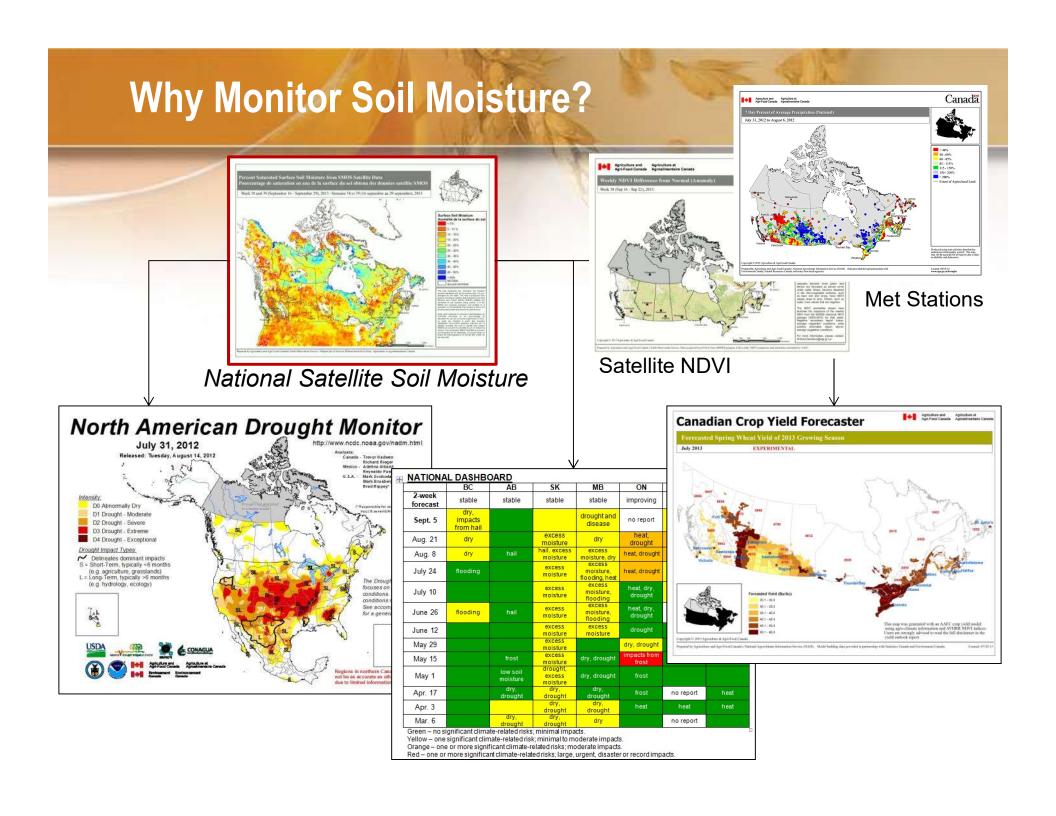


Catherine Champagne

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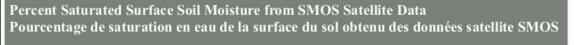
Catherine.Champagne@agr.gc.ca



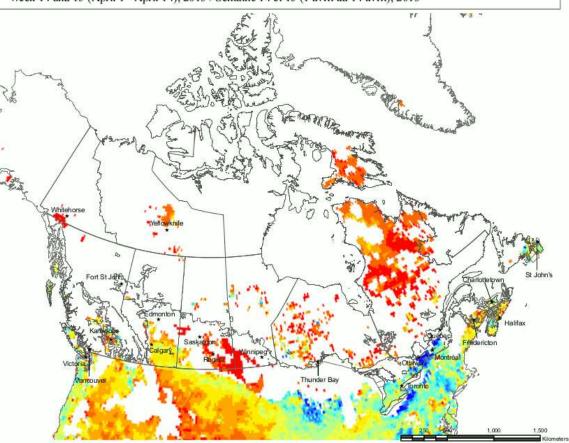


SMOS Surface Soil Moisture

(animated time series 2013)



Week 14 and 15 (April 1 - April 14), 2013 / Semaine 14 et 15 (1 avril au 14 avril), 2013





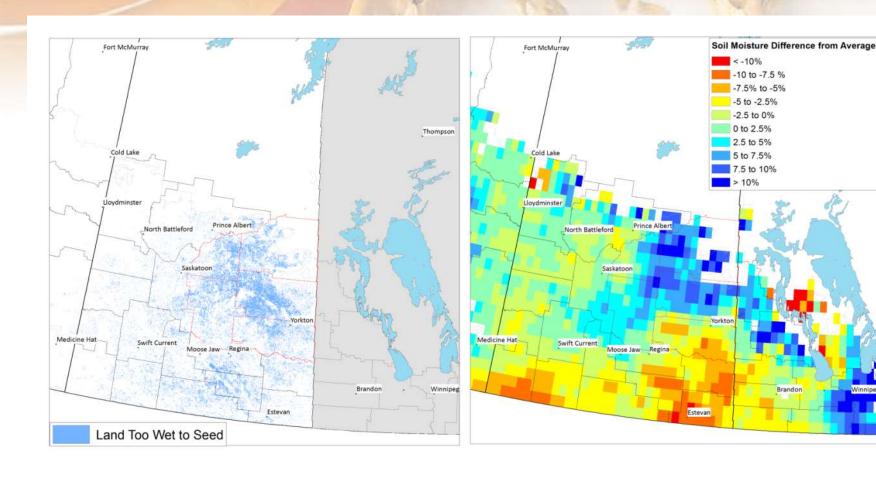


This map represents the volumetric soil moisture (percent saturated soil) for the surface layer (5 cm), averaged for the week. The map is produced from passive microwave satellite data colected by the Soil Moisture and Ocean Safinity (SMOS) satellite and convented to soil moisture using version 5 of the SMOS soil moisture using version 5 of the SMOS soil moisture processor and glidded to a resolution of 30 kilometres. This product is still in the development phase and should be used as such.

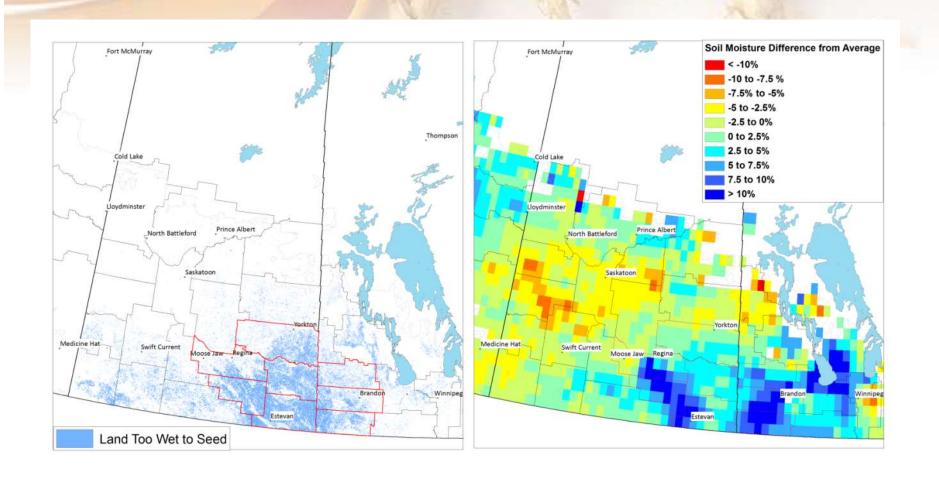
Cette carte présente la moyenne hebdomadaire de saturation du soil; de la couche superficiele (< 5cm). La carte est produite à partir des données satellitaires micro-ondes passives acquises par le satellitaires micro-ondes passives acquises par le satellite humidité des sois et satinité des océans (SMOS) et converté en humidité du soi en utilisant la version 5 du processaur SMOS humidité du soi avec une résolution de 30 kilométres. Ce produit reste en phase de développement et devrait être utilisé en tant que telle

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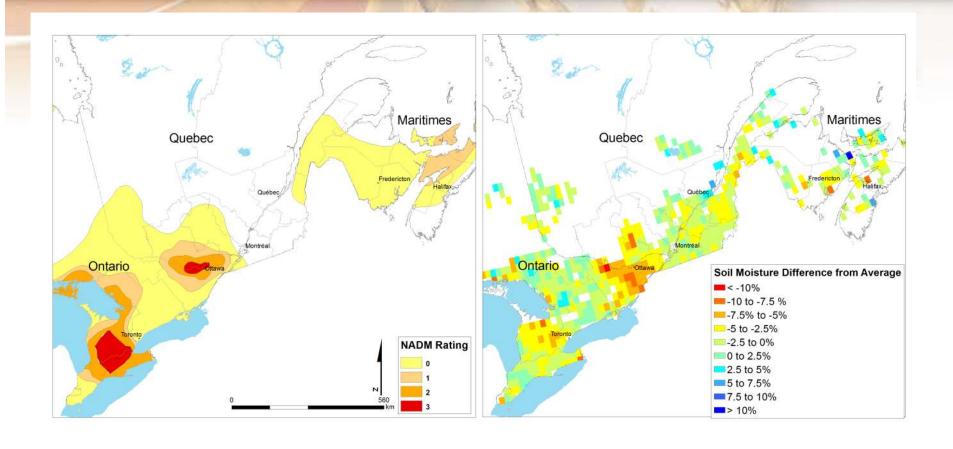
Too Wet To Seed 2010 and SMOS Soil Moisture Anomalies



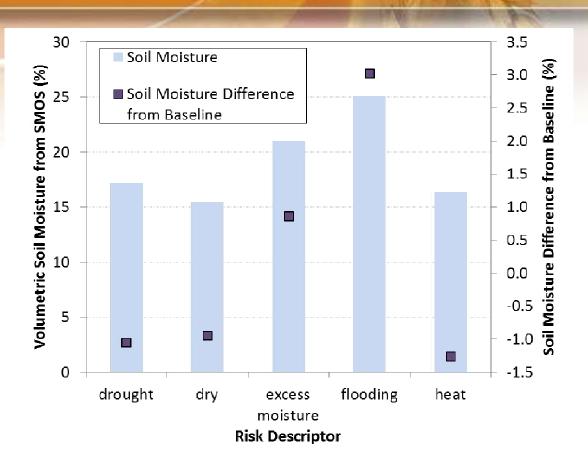
Too Wet To Seed 2011 and SMOS Soil Moisture Anomalies



2012 Drought in Southern Ontario



How does SMOS capture risk events?



- Soil moisture anomalies (from four year baseline) capture regional scale risk events well
- Can inter-calibrate data sets to get a longer time series for forecasting, risk assessment?