

**PARALLEL SESSION C: IMPACTS AND APPLICATIONS**  
**C1: REPRESENTING & PROJECTING EXTREMES**

**Daily precipitation extremes over Northern Canada estimated from Arctic and North-America CORDEX simulations and reanalysis**

**Emilia Paula DIACONESCU**

Institut national de la recherche scientifique, Eau Terre Environnement - Canada

Climate extremes indices as defined by the Expert Team on Climate Change Detection and Indices (ETCCDI) have proved to be very useful in this endeavor. The ETCCDI indices, for instance, provide the basis for an improved gridded observational dataset of temperature and precipitation extremes and were used in the coordination of indices calculation for multi-model climate simulations of phase 3 and 5 of the Coupled Model Intercomparison Project (CMIP3 and CMIP5) and their evaluation with observations and reanalyses.

Emilia Paula Diaconescu<sup>1</sup>, Alain Mailhot<sup>1</sup>, Diane Chaumont<sup>2</sup>, Ross Brown<sup>2,3</sup>, Patrick Grenier<sup>2</sup>

<sup>1</sup>Institut national de la recherche scientifique: Eau Terre Environnement, <sup>2</sup>Ouranos, <sup>3</sup>Environment Canada, Québec, Canada