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Objet: COLLOQUE DES SCIENCES MATHÉMATIQUES DU QUÉBEC / Sherbrooke (07/05/2015, Robert Lund)
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COLLOQUE DES SCIENCES MATHÉMATIQUES DU QUÉBEC
<http://www.crm.umontreal.ca/Colloques/colloqueSMQ-Sherbrooke.html>

DATE :
Le jeudi 7 mai 2015 / Thursday, May 7, 2015

HEURE / TIME :
16 h 30 / 4:30 p.m.

CONFÉRENCIER(S) / SPEAKER(S) :
Robert Lund (Clemson University)

TITRE / TITLE :
A Statistical View of some Recent Climate Controversies

LIEU / PLACE :
Université de Sherbrooke

RESUME / ABSTRACT :
This talk looks at some recent climate controversies from a statistical standpoint. The issues are motivated via changepoints and their detection. Changepoints are ubiquitous features in climatic time series, occurring whenever stations relocate or gauges are changed. Ignoring changepoints can produce spurious trend conclusions. Changepoint tests involving cumulative sums, likelihood ratio, and maximums of F statistics are introduced; the asymptotic distributions of these statistics are quantified under the changepoint-free null hypothesis. The case of multiple changepoints is considered. The methods are used to study several controversies, including extreme temperature trends in the United States and Atlantic Basin tropical cyclone counts and strengths.

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