

Theme 4: User-Community Interactions

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Objectives of Theme 4

- **Integrate traditional knowledge and scientific observations to document and understand changes and hazards**
- **Conduct an initial assessment clarifying peoples' perspectives of storms, the hazards and associated impacts, in the context of the analysis of storm systems;**
- **Provide this perspective to STAR investigators so as to influence the design of the major storm study observational program;**
- **Examine human impressions of severe storms as they are studied by STAR; and**
- **Communicate research results to relevant government agencies and impacted sectors of society.**

Key Issues

- **How do traditional observations of severe weather complement and contribute to our understanding of Arctic storms, how can they be predicted, and how may their impacts be reduced?**
- **What are the characteristics of storms and related events that cause the greatest risks and impacts to northern people and their activities? For example, are certain sequences of events more hazardous than others and how can scientific studies understand these sequences and contribute to better warning systems?**
- **Thus, what are some of the key impacts and hazards on which the STAR Network should focus its analyses, and in what ways can STAR contribute to reducing impacts now and in the future?**

The Theme 4 Team

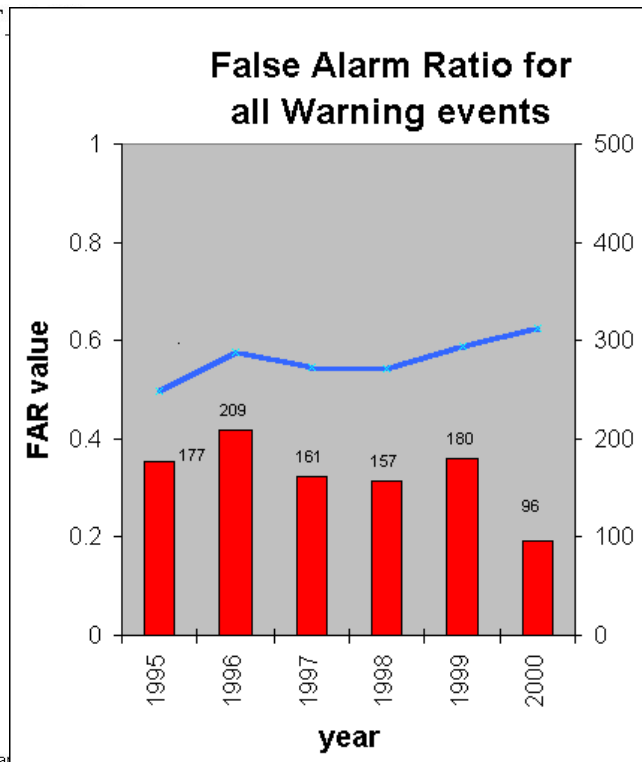
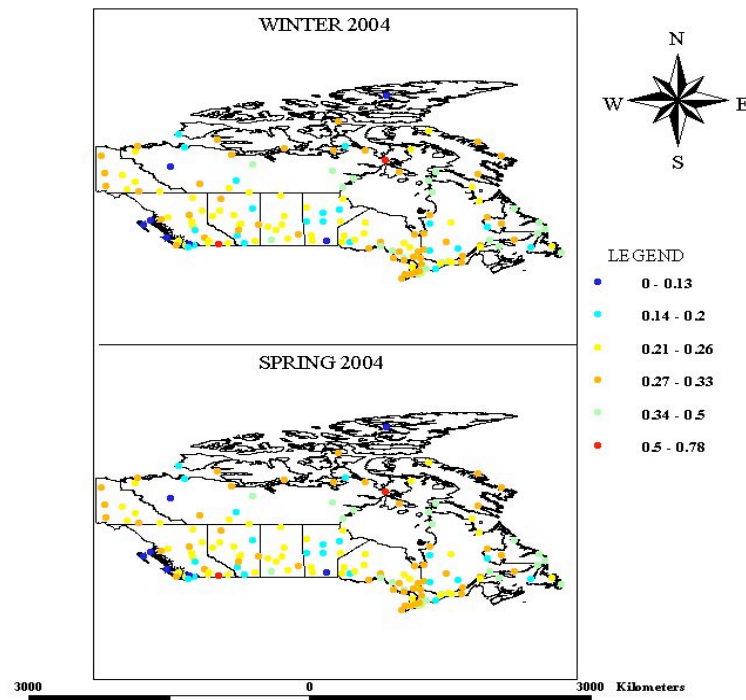
- **STAR Team**
 - Yvonne Bilan-Wallace (EC)
 - SHIP – Storms Hazard Impact Project
 - James Ford (McGill)
 - Ron Stewart/Nikolai Nawri
- **ArcticNet – Coping With Atmospheric-Related Hazards in the Canadian Arctic**
 - PI – Prof. R. Stewart
 - **Researchers**
 - Prof. John Hanesiak
 - Prof. Gordon McBean
 - Prof. Karen Pennesi
 - ***Collaborators***
 - Ms. Yvonne Bilan-Wallace
 - Mr. Ed Hudson
 - Mr. Bob Kochtubajda
 - Mr. Jamal Shirley
 - ArcticNet team – including B. Smit

 - Need for a Theme 4 + workshop
 - Some work in progress

Forecast skill

- How good are the forecasts in the Arctic – compared to southern Canada?

Seasonal Variations of the Critical Success Index (1999) Based on ALT



Sources: Meteorological Service of Canada and the Bureau of Transportation Statistics

Created By: Ryan

WEATHER OBSERVATIONS, PERCEPTIONS AND RELATED IMPACTS

- **Jadah Foliott – Ph.D candidate in UWO
Geography**
 - Building on research done in YK and NWT
- **McBean – supervisor with:**
 - Prof. Karen Pennesi – Anthropology
 - Prof. Chantelle Richmond – Geography and First Nations Studies