

Importance of Ground Magnetometers to NASA Heliophysics Missions

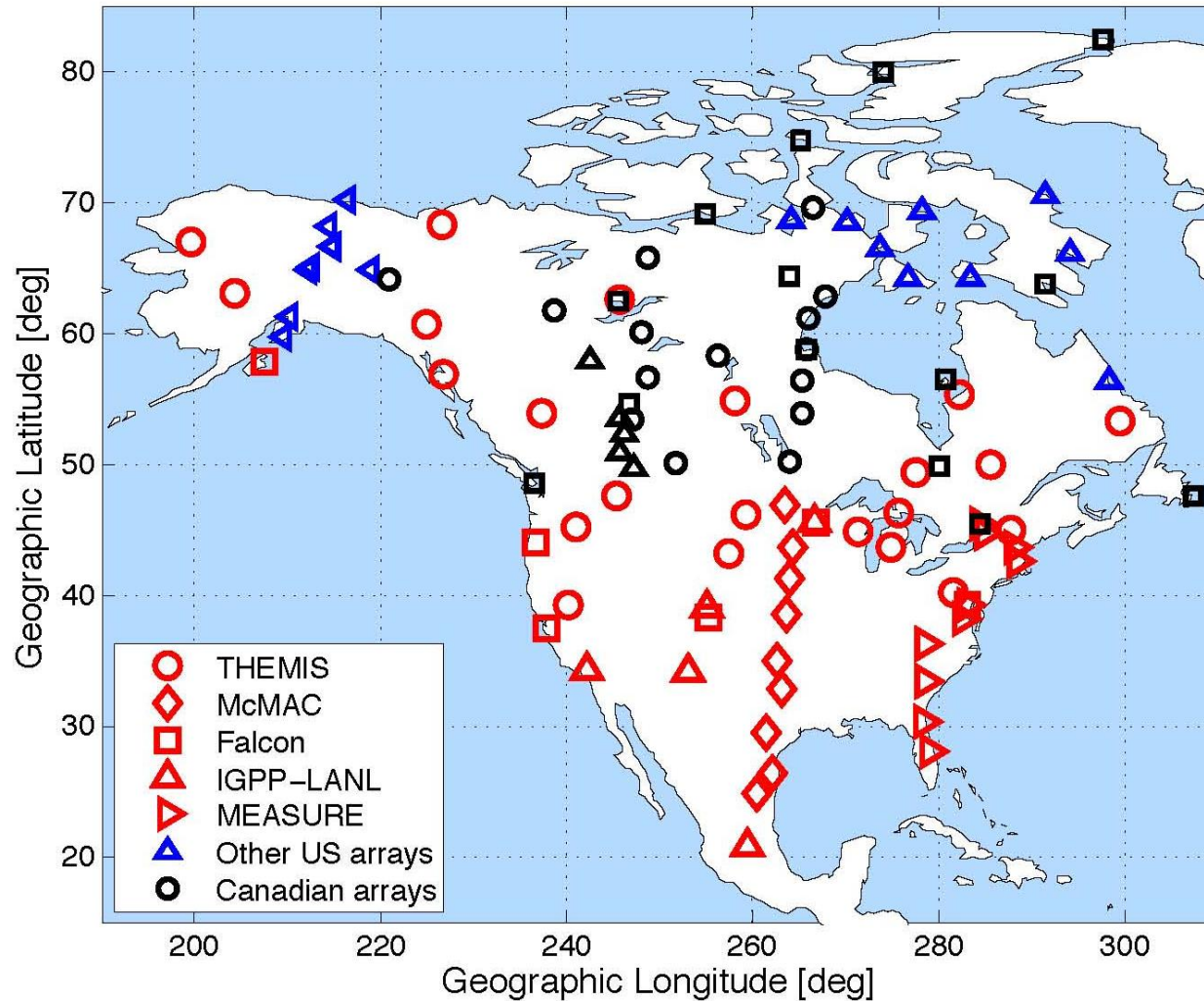
- Several U.S. projects have established over four dozen ground magnetometers in North America.
- These ground stations can provide invaluable measurements to support NASA Heliophysics missions (e.g. RBSP).
- Continued operation and maintenance of these networks is required if they are to contribute to RBSP science investigations.
- Many of the current operating programs are winding down.

Acknowledgement: Peter Chi and Chris Russell

US-sponsored Ground Magnetometer Arrays in North America

- UCLA-built:
 - **THEMIS: 22 (NASA, since 2004)**
 - IGPP-LANL: 6 (UC, since 1997)
 - MEASURE: 10 (NSF, since 1999)
 - McMAC: 9 (NSF, since 2004)
 - Falcon: 6 (Air Force, since 2008)
- Other US-sponsored arrays:
 - MACCS (NSF): In Arctic territory of Canada; Focusing on cusp latitudes
 - GIMA: In Alaska only

Distribution of North American Magnetometers



World Wide Magnetometer Sites (circa 2007)

