

The International Meridian Circles Program: a major international cooperation project within ISWI

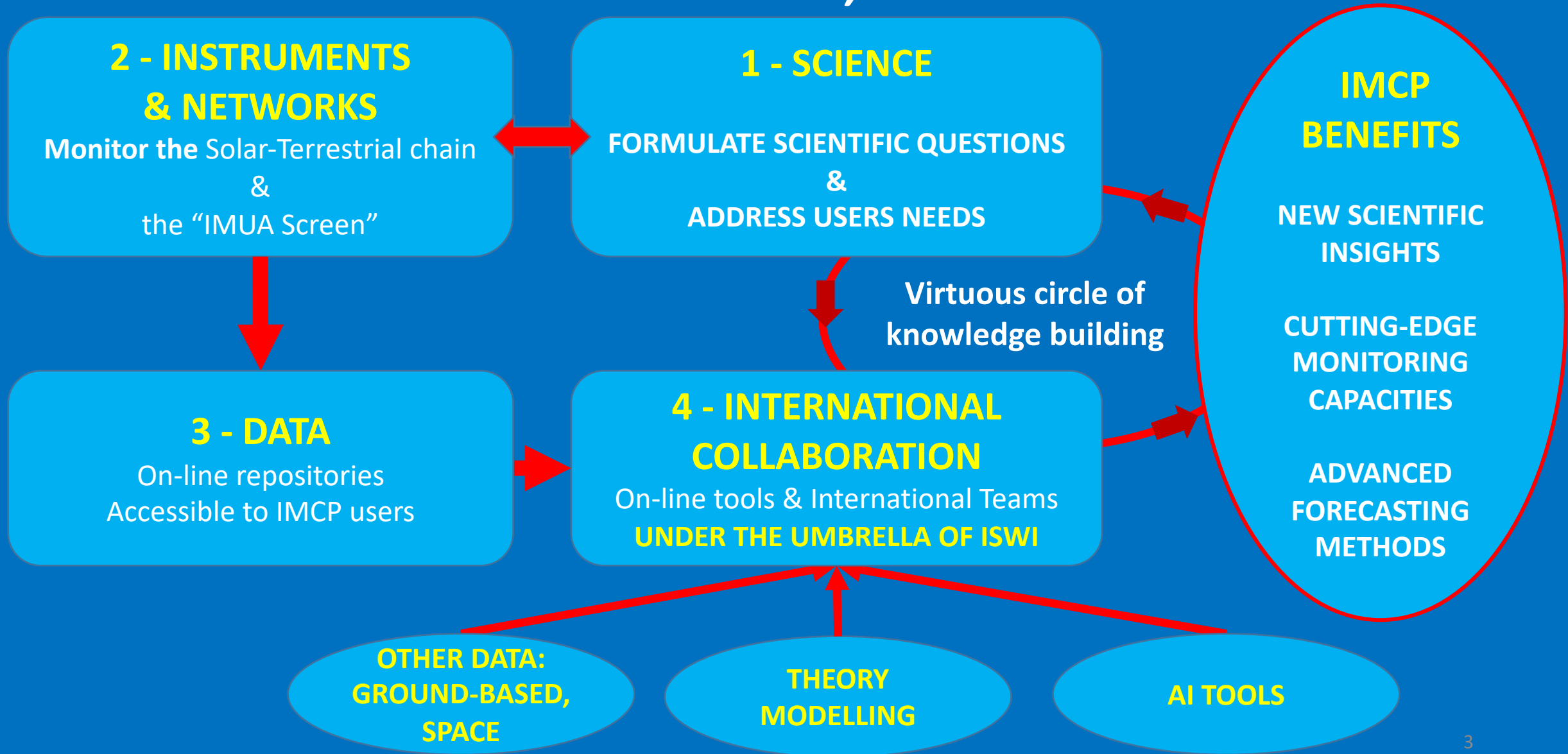
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(michel.blanc@irap.omp.eu), Babatunde Rabiū⁽³⁾, Aziza Bounhir⁽⁴⁾, Frédéric Pitout⁽¹⁾, Olivier le Lecontel⁽⁵⁾ Christine Amory-Mazaudier⁽⁵⁾, all members of GIRGEA and the Team of IMCP Chief Scientists: Chi Wang⁽²⁾, William Liu⁽²⁾, Xuhui Shen⁽²⁾, Jian Wu⁽⁶⁾, Qinghe Zhang⁽⁷⁾, Shun-Rong Zhang⁽⁸⁾

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ISWI Steering Committee Meeting
Feb. 5-6, 2024

What We Want to Build: TWO GREAT CIRCLES, FOUR PILLARS

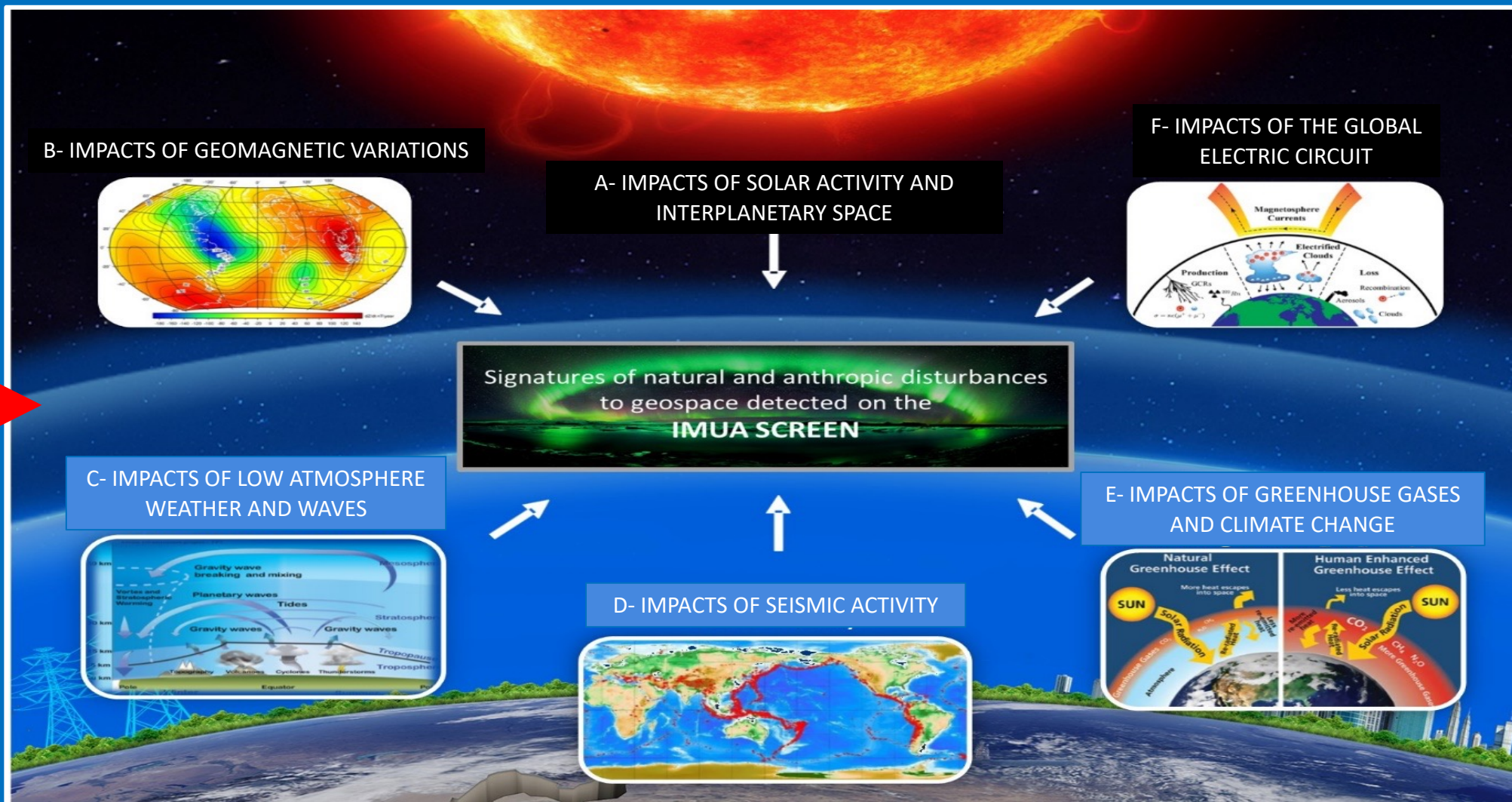


1. IMCP SCIENCE

ONE OVERARCHING SCIENCE GOAL

STUDY, MONITOR AND POSSIBLY FORECAST
THE IMPACTS OF NATURAL AND ANTHROPIC DISTURBANCES
ON THE IONOSPHERE AND MIDDLE-UPPER ATMOSPHERE (IMUA)

SIX MAJOR SCIENCE THEMES

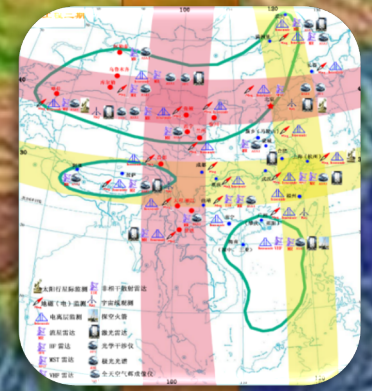


2. IMCP INSTRUMENTS AND NETWORKS TWO GREAT CIRCLES OVER 6 CONTINENTS

Alaska-Hawaii-French Polynesia Chain

Euro-African Chain

Chinese Meridian Project



IMCP 2nd Meridian Circle
Europe-Africa-Central Pacific

IMCP 1st Meridian Circle
Asia-Australia-Americas

150W

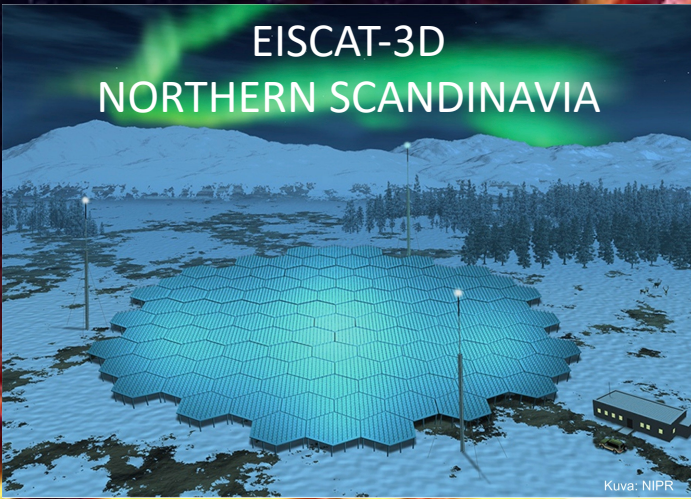
60W

30E

120E

BUILDING THE EUROPE-AFRICA-PACIFIC GREAT CIRCLE

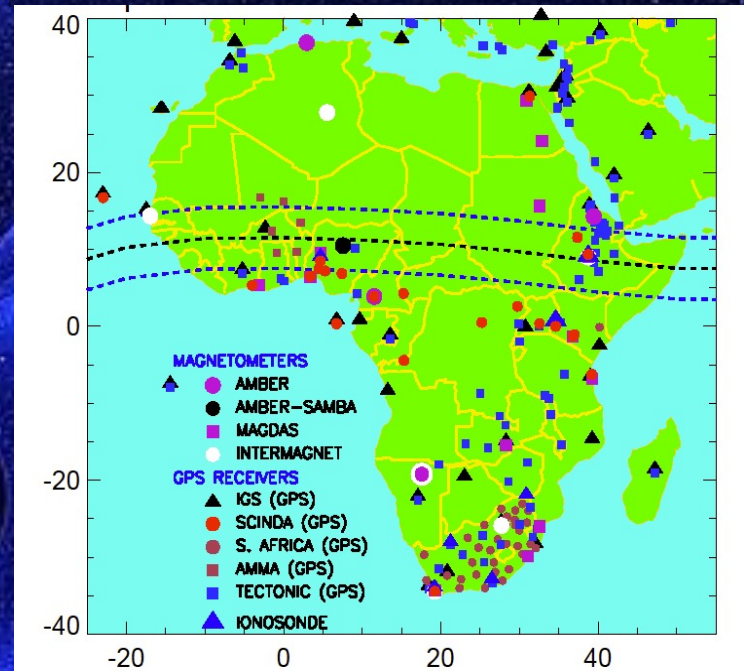
I- Large and Medium Scale Equipments



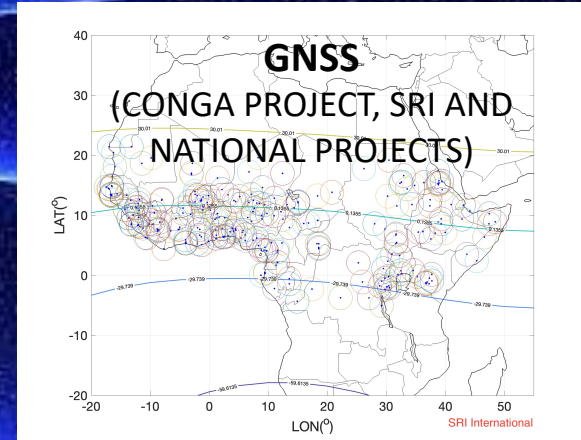
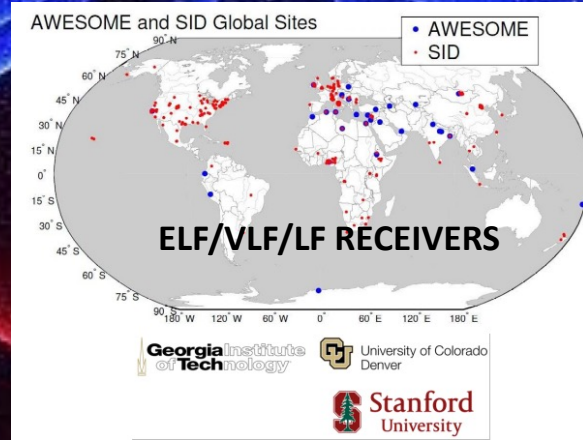
AND MORE
TO COME!



II- Network Instruments



Map of distribution of some infrastructure dedicated to space weather monitoring in Africa (Baki et al. 2023)



4. INTERNATIONAL COLLABORATION: Building the IMCP under the umbrella of ISWI and UNOOSA

NETWORKING ACTIVITIES

- International scientific workshops:

IMCP 2024 WORKSHOP: Sao Paulo, Brazil, hosted by INPE, 22-27 Sept. '24

“FOUNDING” IMCP Europe-Africa-Pacific Workshop: Nigeria, 2024

- 2 Regular Webinars for each of the two Great Circles, with mutual exchange of information

Kick-off Winter-Spring 2024

“TECHNICAL” ACTIVITIES

- Coordinated Development of the Network
- Collaborative work on **Pillar 3 “DATA”**

