

GGOS GLOBAL GEODETIC OBSERVING SYSTEM

International Association of Geodesy



IAG Mission

- :: advancing geodesy through research and teaching
- :: collecting and analyzing data
- :: engaging the governmental and science community
- :: stimulating technological development
- :: providing a consistent representation of the Earth

IAG Commissions and Services

Commissions

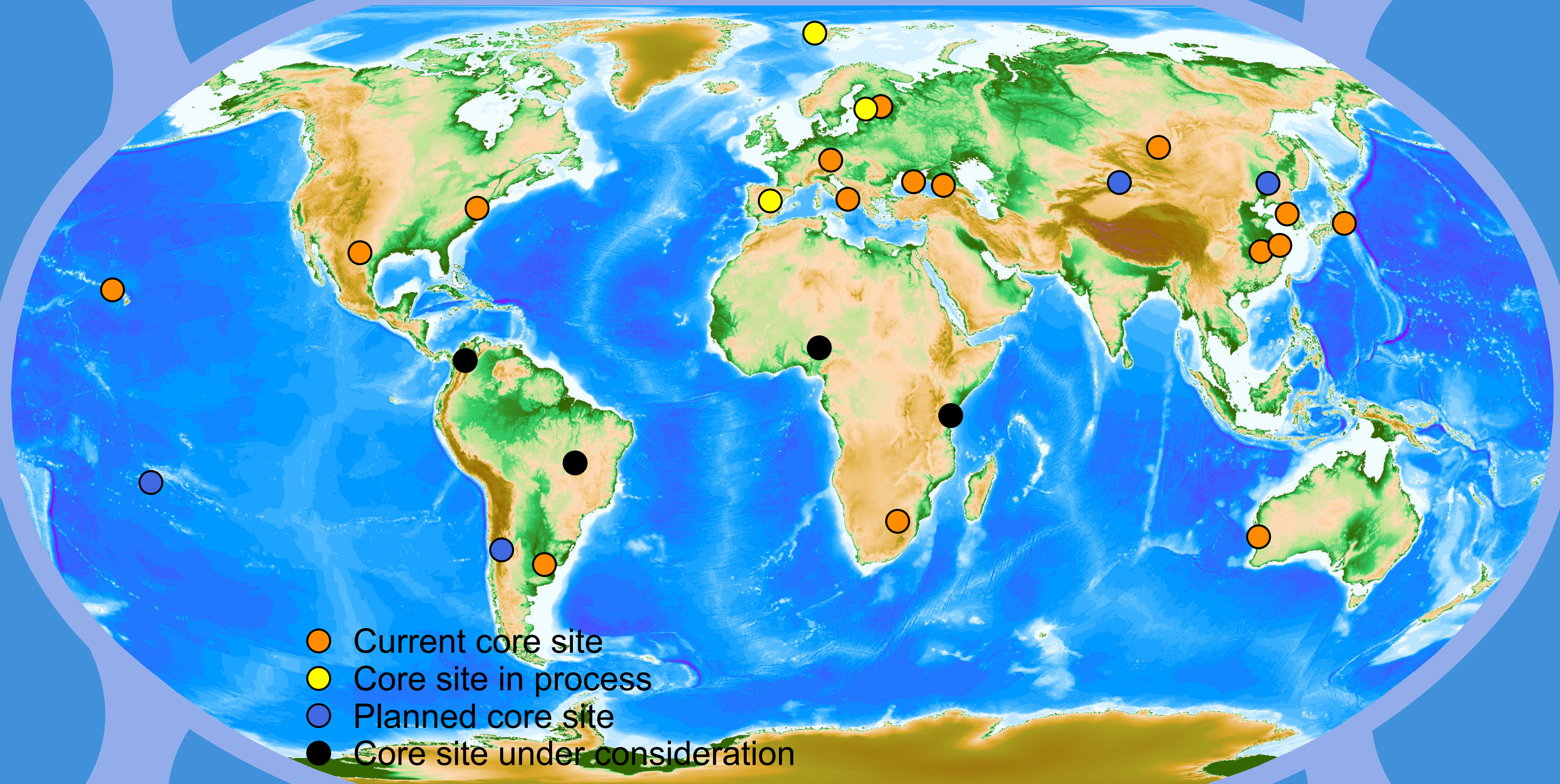
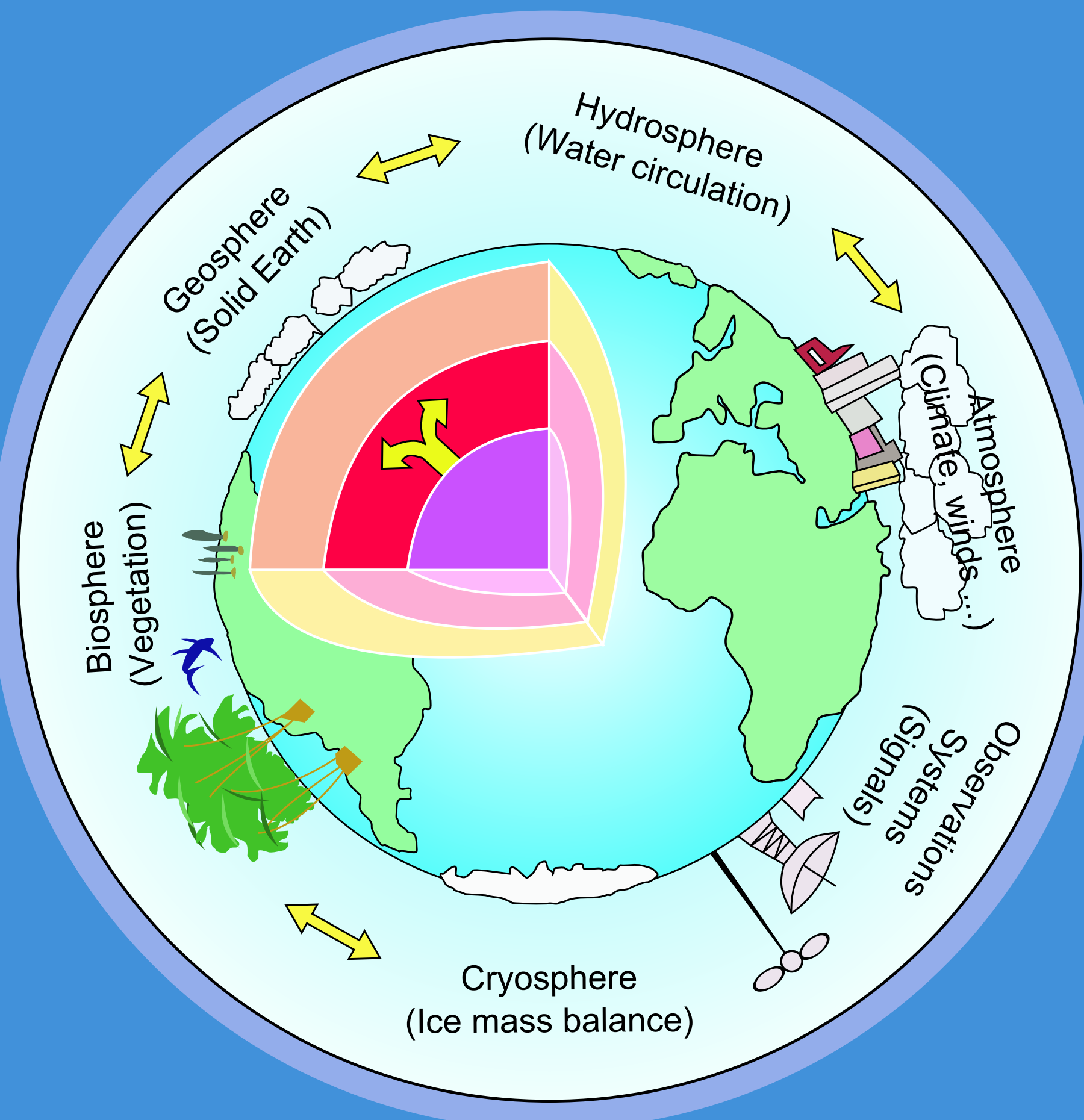
- 1 Reference Frames
- 2 Gravity Field
- 3 Earth Rotation & Geodynamics
- 4 Positioning and Applications

Inter-Commission Committee on Theory

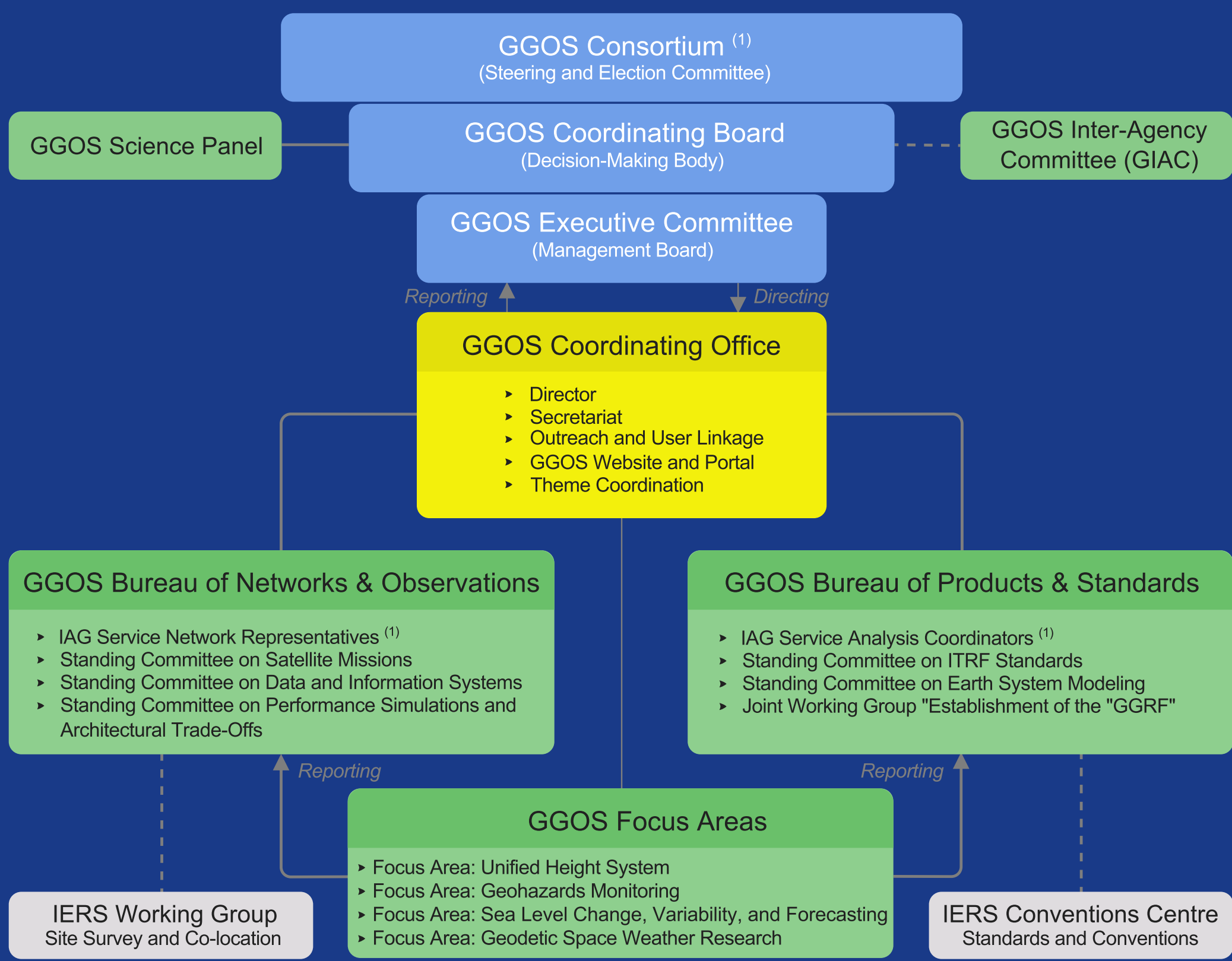
Communication and Outreach Branch

Global Geodetic Observing System (GGOS)

- ILRS** International Laser Ranging Service
- BGI** Bureau Gravimetric International
- ICGEM** Int. Center for Global Earth Models
- PSMSL** Permanent Service for Mean Sea Level
- IDEMS** Int. Digital Elevation Model Service
- IGETS** Int. Geodynamics and Earth Tide Service
- ISG** International Service for the Geoid
- IERS** International Earth Rotation and Reference Systems Service
- IGS** International GNSS Service
- IVS** International VLBI Service
- IDS** International DORIS Service
- IGFS** International Gravity Field Service
- BIPM** Bureau Int. des Poids et Mesures



GGOS Organizational Framework



⁽¹⁾ GGOS is built upon the foundation provided by the IAG Services, Commissions, and inter-Commission Committees

Infrastructure

- stations :: observing and collecting measurements
- data centers :: checking and archiving data
- analysis centers :: analyzing data and models
- combination centers :: combining different techniques
- users :: using products for applications

Successes

- :: include gravity into list of observations
- :: definition of the results of "super-sites"
- :: metadata definition started

Challenges

- :: distribution of "super-sites"
- :: fix catalogue of metadata
- :: connection to governments
- :: common reference
- :: exchange procedure to replace ftp

Best Practices

- open data policy
- coordination of work of services
- usability for different scientific and environmental applications