CZO perspective in Central Africa: Ogooué River basin, Gabon

- **Equatorial climate:** MAR = 2500 mm/yr - MAT = 26 °C; mean annual runoff@Lambaréné = 700 mm/yr,

- **Basement:** silicated shield rocks (passive margin) & Mesozoic terrains,

- **Regolith:** Extremely weathered, thick, ancient (barely represented in the CZO networks),

- **Status:** 80% of Gabon area, pristine but in fast mutation with strong conservation policy,
Short to mid-term objectives

- **Set-up in the LNP and managed by SEGC (ANPN/CENAREST):** Two pilot hydro-climatic stations in 2016 (Ogooué@Ayem & Lopé stream@outlet) and two small experimental watersheds (forest/savannah mosaic)

**CZ scientific questions:**

- **Water cycle:** Combining high frequency *in situ* parameters with multi-satellite data (eg altimetry)
- **Biogeochemical cycles:** Carbon & nutrients fluxes, GHG emissions,…
- **Weathering/erosion:** saprolite production *versus* soil breakdown with $\delta^{7}\text{Li}$, CRN, contemporary biogeochemical fluxes…
- **Biosphere and forest dynamics:** Lidar, multi-satellite data, ground measurements …
- **Ecological functions and ecosystem services**