

16, and **Boxes 2 and 3**).

<u>'CNes</u>ª leti





1 Hz vector data and Burst scalar data has been **established**.

- Investigations of ELF lightning induced whistlers.

Earth's magnetic field with nanosatellites

If you wish to join/support the project, please let us know (gh@ipgp.fr)



Sun Sensor

available Open Cosmos 12U plateforms (here without a boom

	8 Conclusion and Perspectives
) / / / / / / / / / / / / / / / / / / /	 Swarm has not only proven to be a scientific success, it also allowed in-flight science validation of the CEA-Léti ASM magnetometer dual mode concept. A miniaturized version of this ASM will shortly be available.
	• A Phase 0 study with CNES, followed by very active ongoing studies, points at the possibility of relying on available 12U platforms (such as proposed by Open Cosmos) to build a nanosatellite concept with a high TRL payload and SRL readiness.
/ t /	• Several such NanoMagSats could quickly be developed for a multiple launch in 2024, to complement, enhance and take over the Swarm constellation magnetometry and ionospheric science goals.
	 Such a NanoMagSat concept could pave the way to permanent low-cost multi-satellite collaborative observation of the geomagnetic field and ionospheric environment, complementing the INTERMAGNET (http://www.intermagnet.org/) network of ground- based magnetic observatories.