

Exploitation of Pleiades HR Data for French Civil Defense: natural hazards and large gatherings monitoring cases.

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Since over 12 years, the French Civil Defense, the French Space Agency and the SERTIT have engaged a fruitfully collaboration to develop the exploitation of space techniques for the management of natural and industrial disasters as well as for monitoring of large gatherings.

Historically the French Civil Defense was always one of the triggering actors of the International Space and major Disaster Charter, and it remains very active including in the GMES SAFER framework. In the context of continuously improving space sensors, SERTIT, with COGIC and with the CNES support, jointly participated to the development of news applications and products. Part of this was done within the CNES ORFEO framework, a program preparing for the exploitation of the Pléiades HR data. The ultimate aim of this work was on the one hand to keep the operational aspect of the products and, on the other hand to insure their delivery at levels of services within the Civil Defense organization from headquarters to survey teams, from firemen to policemen.

The first demonstrators were carried on classical cases of natural disaster such as flood and earthquakes, respectively on the 2003 Arles flood event, and the 2003 Boumerdes earthquake. Other demonstrators were carried for large gatherings with a humanitarian context like the population fleet over Ndjamena in February 2008. Finally demonstrators were carried out for events with sensitive security aspect such as major political summits: NATO 2009, the 2010's Africa-France summit in Nice and G8-2011, G20-2011 meetings.

With such expertise, all stakeholders, from the value added providers, to the various levels of the French Civil Defense, stand ready to process and fully exploit the Pleiades HR data.