18.7 HAPEX SAHEL Information System: from the Field Campaign to CD-ROM, and WWW

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Abstract

The HAPEX SAHEL experiment (Hydrologic Atmospheric Pilot Experiment) is designed to study the continent/atmosphere interactions (H2O, CO2 and energy fluxes) in the Sahel area, a region particularly representative of the dry tropical area. HAPEX SAHEL brings together researchers from a dozen or so countries and forms part of the wider research carried out within the framework of the World Climate Research Program in order to improve the taking into account of the hydrologic processes in climatic model. During the field campaign, ground data was collected by the investigators; remote sensed images were also acquired.

From the point of view of data manager, the HAPEX SAHEL experiment has several specificities : the number of scientific organizations based in different countries and continents, the multidiciplinary and the multi-scale approach. Such an experiment is needed to quickly exchange certified data in a user friendly form, to offer communication facility, and to prepare a long term archive. This needs have to be proposed to a wide scientist community.

The solution we chose is based from FIFE Information System (FIS), data stored into RDBMS tables. This concept was improved : a meta-catalog, made of tables, manages the data tables. So, we are able to produce CD-ROM file system by an automatic process. This method has been adapted to produce HTML file system. The content of the data base is now dumped every six months into a CD-ROM, and every month into a Mosaic server. Now, the WWW HAPEX SAHEL Information System proposes more than 8.000 files containing ground data, and 30 Spot images on the HAPEX area. We plan to transfer the whole database into the WWW server (more than 10 Gb of structured dataset).

These two media, Mosaic and CD-ROM, let us provide quasi on-line data, and off-line data for the long term archive.

HAPEX SAHEL Information System Product and Publication

HSIS Team - CD-ROM 0 : AVHRR 91 - December 92.

HSIS Team - HSIS telnet (not open because of security contrainst) - November 93.

HSIS Team - HSIS anonymous ftp - March 93.

Mr T.VALERO, Dr Y.H. KERR, Mr S. WAGNER, Ms M. THAWLEY - HSIS - The HAPEX Information System -

American Geophysical Union - Fall Meeting 94 - Poster.

HSIS Team - CD-ROM 1&2 : AVHRR 92 - January 94.

HSIS Team - CD-ROM 00 : Ground Data - March 94.

HSIS Team - Mosaic Server - (widely open october 1994).

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