

GLOBAL DATA-PROCESSING AND FORECASTING SYSTEM (GDPFS)

software offered to WMO Members for exchange

Notified to WMO / Updated	WMO Member	Brief description of software available for exchange Website/Contact
02/09/2010	Peru	CLIMATOLOGIA SINOPTICA (CLISYN V1.0): presents a sequence of images of global climate change, by area and meteorological variables from different data sources http://www.senamhi.gob.pe/main_down.php?ub=zip&id=INSTALADOR_CLISYN
02/06/2009	Italy	SWS v1.0: The package enables to operate both automatically and manually a 'standard weather station' (SWS) assembled making use of COTS HW for PC/server, sensors, UPS, GPS clock and TDC as necessary. The package is based on the following 3 main modules controlled by a Supervisor program: INGEST -to gather, process and archive atmospheric variables coming from digital sensors; GUI -to manage and control the whole station and to produce TAC and BUFR messages; and SENDER -to transmit data and messages to remote central and local units. The configuration of the station is set up and modified by means of text tables. ftp://ftp.meteoam.it Contact: sws-us@meteoam.it - to obtain the username and password
08/10/2008	Canada	METRo is a road weather forecast model from Environment Canada. METRo takes as input an atmospheric forecast, road composition and observations from a road weather station (RWIS). From this data it produces a local road forecast of temperature and road condition for a 48-hour period. A point forecast is produced in less than 2 seconds of computation time on a simple consumer-grade computer. All the input and output of METRo are in XML format. Installation of the METRo program is relatively simple on a GNU/Linux system. http://home.gna.org/metro/ Contact: Miguel.Tremblay@ec.gc.ca
20/08/2008	United Kingdom	A set of kernel routines for encoding and decoding BUFR messages; front-end routines are required to present messages or to decode other code formats. Complete BUFR Tables included. Please note that this is not software to convert between TAC and BUFR. http://www.metoffice.gov.uk

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02/07/2008	Switzerland	<p>LIBAGG: library containing functions for the aggregation of mainly climatological values and the calculation of derived meteorological quantities. LIBPUM: library containing functions for testing meteorological measurements and observations for plausibility.</p> <p>Documentation of these software packages is not available on the World Wide Web.</p> <p>Contact: christian.haeberli@meteoswiss.ch</p>
17/11/2006	United States	<p>NetCDF (network Common Data Format) is an interface for scientific data access and a library that provides an implementation of the interface. The netCDF library also defines a machine-independent format for representing scientific data. Together, the interface, library, and format support the creation, access, and sharing of scientific data. NetCDF-4 is a major enhancement that provides many features. NetCDF-Java provides read access to other formats, including GRIB and BUFR, through a Common Data Model Interface.</p> <p>http://www.unidata.ucar.edu/software/netcdf.html</p>
17/11/2006	United States	<p>The Unidata Local Data Manager (LDM) is a collection of cooperating programs that select, capture, manage, and distribute arbitrary data products. The system is designed for event-driven data distribution and is currently used in the Unidata Internet Data Distribution (IDD) project. The LDM system includes network client and server programs and their shared protocols. An important characteristic of the LDM is its support for flexible, site-specific configuration.</p> <p>http://www.unidata.ucar.edu/software/ldm</p>
06/09/2006	Portugal	<p>TIDB2 and RTIDB EXPLORER. The TIDB2 database interface provides persistence to complex science objects, including GRIB and BUFR objects, using relational database systems like MySQL, PostgreSQL and Oracle. Database tables are organized in a folder structure with automated time management and accessed through a generalized C++ table object.</p> <p>Source available under gnu license.</p> <p>Contact: joao.simo@meteo.pt</p>