

ARPEGE-TROPIQUE model outputs

General information

Dataset name: ARPEGE-TROPIQUE model outputs
Created on: 2016-03-09
Useful in the framework of: OPERATIONAL-DATA > Model outputs

Contact(s)

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Model information

Data description

Model / simulation description

ARPEGE-TROPIQUES analysis from Meteo-France are available over an Atlantic Africa area for all the AMMA scientific community. ARPEGE is the acronym of "Action de Recherche Petite Echelle Grande Echelle". This model is used both by Meteo-France and ECMWF; at ECMWF is is named IFS (Integrated Forecasting system). ARPEGE is a global spectral model, with a gaussian grid for the grid-point calculations. ARPEGE is used operationnaly at Meteo-France (two versions, ARPEGE-FRANCE with a stretched coordinate and ARPEGE-TROPIQUES with a regular resolution). ARPEGE-TROPIQUES differs mainly from ARPEGE by ist regular grid of 50 km and a longer cut-off (3hr) enabling the assimilation of more data than ARPEGE. Operational analysis produced by ARPEGE-TROPIQUES have been extracted on regular latitude/longitude grid and converted from GRIB (meteorological format) to Netcdf (self-describing format, widely used in modelers community). More information available at <http://bddamma.ipsl.polytechnique.fr/arpege-tropique-analysis.html>

Parameters

Pressure

Parameter name: pressure
Parameter keyword: Atmosphere > Atmospheric Pressure

Temperature

Parameter name: Temperature
Parameter keyword: Atmosphere > Atmospheric Temperature

Temperature at 2 m

Parameter name: temperature at 2 m
Parameter keyword: Atmosphere > Atmospheric Temperature

Boundary layer thickness

Parameter name: boundary layer thickness
Parameter keyword: Atmosphere > Atmospheric Pressure

Total column water vapor

Parameter name: Total column water vapor
Parameter keyword: Atmosphere > Atmospheric Water Vapor

Total column water vapor

Parameter name: Total column water vapor
Parameter keyword: Atmosphere > Atmospheric Pressure

U-component of wind at 10 m

Parameter name: u-component of wind at 10 m
Parameter keyword: Atmosphere > Atmospheric Winds

V-component of wind at 10 m

Parameter name: v-component of wind at 10 m
Parameter keyword: Atmosphere > Atmospheric Winds

Relative humidity at 2m

Parameter name: relative humidity at 2m
Parameter keyword: Atmosphere > Atmospheric Water Vapor

Total cloud cover

Parameter name: total cloud cover
Parameter keyword: Atmosphere > Clouds

Convective cloud cover

Parameter name: convective cloud cover
Parameter keyword: Atmosphere > Clouds

Low cloud cover

Parameter name: low cloud cover
Parameter keyword: Atmosphere > Clouds

Medium cloud cover

Parameter name: medium cloud cover
Parameter keyword: Atmosphere > Clouds

High cloud cover

Parameter name: high cloud cover
Parameter keyword: Atmosphere > Clouds

U-component of wind

Parameter name: u-component of wind
Parameter keyword: Atmosphere > Atmospheric Winds

V-component of wind

Parameter name: v-component of wind
Parameter keyword: Atmosphere > Atmospheric Winds

Vertical velocity

Parameter name: Vertical velocity
Parameter keyword: Atmosphere > Atmospheric Winds

Coverage

Temporal coverage

Date begin (yyyy-mm-jj): 2005-01-01
Date end (yyyy-mm-jj): 2008-01-02

Geographic coverage

Area name: ARPEGE
West bounding coordinate (°): -60
East bounding coordinate (°): 40
North bounding coordinate (°): 35
South bounding coordinate (°): -35

Data use information

Use constraints: The access to this dataset is restricted to AMMA-INT members.