

ALADIN model outputs

General information

Dataset name: ALADIN 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

ALADIN (Aire Limitée Adaptation Dynamique Initialisation) analysis and forecasts produced by Meteo-France in almost real time during the SOP 2006 are available over a West Africa area for all the AMMA scientific community. ALADIN is a limited area version of ARPEGE, the global model, at a resolution of 10 Km. ALADIN - AMMA has been initialized by a 3D-var analysis specifically tuned for this tropical domain. Specific developments have been made to assimilate the MSG-1 winds (over ocean).

Products have been interpolated 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/aladin-analysis-2.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

Pressure reduced to MSL

Parameter name: pressure reduced to MSL
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

Altitude

Parameter name: altitude
Parameter keyword: Atmosphere > Altitude

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

Relative humidity

Parameter name: Relative humidity
Parameter keyword: Atmosphere > Atmospheric Water Vapor

Geopotential

Parameter name: Geopotential
Parameter keyword: Atmosphere > Altitude

Net long-wave radiation flux (surface)

Parameter name: net long-wave radiation flux (surface)
Parameter keyword: Atmosphere > Atmospheric Radiation

Large scale precipitation

Parameter name: Large scale precipitation
Parameter keyword: Atmosphere > Precipitation

Sensible heat flux

Parameter name: sensible heat flux
Parameter keyword: Atmosphere > Atmospheric Temperature

Net short-wave radiation flux (top of the atmosphere)

Parameter name: net short-wave radiation flux (top of the atmosphere)
Parameter keyword: Atmosphere > Atmospheric Radiation

Convective precipitation

Parameter name: Convective precipitation
Parameter keyword: Atmosphere > Precipitation

Latent heat flux

Parameter name: latent heat flux
Parameter keyword: Atmosphere > Atmospheric Water Vapor

Net long-wave radiation flux (top of the atmosphere)

Parameter name: net long-wave radiation flux (top of the atmosphere)
Parameter keyword: Atmosphere > Atmospheric Radiation

Net short-wave radiation flux (surface)

Parameter name: net short-wave radiation flux (surface)
Parameter keyword: Atmosphere > Atmospheric Radiation

Coverage

Temporal coverage

Date begin (yyyy-mm-jj): 2006-06-01
Date end (yyyy-mm-jj): 2006-10-02

Geographic coverage

Area name: ALADIN
West bounding coordinate (°): -18
East bounding coordinate (°): 18
North bounding coordinate (°): 21
South bounding coordinate (°): 3

Data use information

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