

ECMWF AMMA Reanalysis

General information

Dataset name: ECMWF AMMA Reanalysis
Created on: 2016-03-09
Useful in the framework of: AMMA

Contact(s)

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Model information

Data description

Model / simulation description

The ECMWF data assimilation and forecasting system has been rerun specifically for AMMA, using the specific AMMA archive of radio-sondes. The ECMWF re-analysis is available over a large Atlantic Africa area, limited to the period of may to september 2006, for all the AMMA scientific community. Products have been extracted at ECMWF 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/ecmwf-amma-re-analysis-2.html>.

Parameters

Temperature

Parameter name: Temperature
Parameter keyword: Atmosphere > Atmospheric Temperature

Temperature

Parameter name: Temperature
Parameter keyword: Atmosphere > Atmospheric Temperature

Total column water vapor

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

Vertical velocity

Parameter name: Vertical velocity
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

Geopotential

Parameter name: Geopotential
Parameter keyword: Atmosphere > Altitude

Large scale precipitation

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

Convective precipitation

Parameter name: Convective precipitation
Parameter keyword: Atmosphere > Precipitation

Evaporation

Parameter name: Evaporation
Parameter keyword: Atmosphere > Atmospheric Water Vapor

Boundary layer height

Parameter name: Boundary layer height
Parameter keyword: Atmosphere > Atmospheric Pressure

East/West surface stress

Parameter name: East/West surface stress
Parameter keyword: Atmosphere > Atmospheric Winds

North/South surface stress

Parameter name: North/South surface stress
Parameter keyword: Atmosphere > Atmospheric Winds

Surface latent heat flux

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

Surface sensible heat flux

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

Surface solar radiation

Parameter name: Surface solar radiation
Parameter keyword: Atmosphere > Atmospheric Radiation

Downward surface solar radiation

Parameter name: Downward surface solar radiation
Parameter keyword: Atmosphere > Atmospheric Radiation

Surface thermal radiation

Parameter name: Surface thermal radiation
Parameter keyword: Atmosphere > Atmospheric Radiation

Downward surface thermal radiation

Parameter name: Downward surface thermal radiation
Parameter keyword: Atmosphere > Atmospheric Radiation

Top solar radiation

Parameter name: Top solar radiation
Parameter keyword: Atmosphere > Atmospheric Radiation

Top thermal radiation

Parameter name: Top thermal radiation
Parameter keyword: Atmosphere > Atmospheric Radiation

Albedo

Parameter name: Albedo
Parameter keyword: Atmosphere > Atmospheric Radiation

2 metre dewpoint temperature

Parameter name: 2 metre dewpoint temperature
Parameter keyword: Atmosphere > Atmospheric Temperature

Land/sea mask

Parameter name: Land/sea mask
Parameter keyword: Land Surface > Soils

Mean sea level pressure

Parameter name: Mean sea level pressure
Parameter keyword: Atmosphere > Atmospheric Pressure

Skin temperature

Parameter name: Skin temperature
Parameter keyword: Atmosphere > Atmospheric Temperature

Sea surface temperature

Parameter name: Sea surface temperature
Parameter keyword: Oceans > Ocean Temperature

Soil temperature level 1

Parameter name: Soil temperature level 1
Parameter keyword: Land Surface > Soils

Soil temperature level 2

Parameter name: Soil temperature level 2
Parameter keyword: Land Surface > Soils

Soil temperature level 3

Parameter name: Soil temperature level 3
Parameter keyword: Land Surface > Soils

Soil temperature level 4

Parameter name: Soil temperature level 4
Parameter keyword: Land Surface > Soils

Volumetric Soil water layer 1

Parameter name: Volumetric Soil water layer 1
Parameter keyword: Land Surface > Soils

Volumetric Soil water layer 2

Parameter name: Volumetric Soil water layer 2
Parameter keyword: Land Surface > Soils

Volumetric Soil water layer 3

Parameter name: Volumetric Soil water layer 3
Parameter keyword: Land Surface > Soils

Volumetric Soil water layer 4

Parameter name: Volumetric Soil water layer 4
Parameter keyword: Land Surface > Soils

2 metre temperature

Parameter name: 2 metre temperature
Parameter keyword: Atmosphere > Atmospheric Temperature

10 metre u wind component

Parameter name: 10 metre u wind component
Parameter keyword: Atmosphere > Atmospheric Winds

10 metre v wind component

Parameter name: 10 metre v wind component
Parameter keyword: Atmosphere > Atmospheric Winds

Eastward wind component

Parameter name: Eastward wind component
Parameter keyword: Atmosphere > Atmospheric Winds

Eastward wind component

Parameter name: Eastward wind component
Parameter keyword: Atmosphere > Atmospheric Winds

Northward wind component

Parameter name: Northward wind component
Parameter keyword: Atmosphere > Atmospheric Winds

Northward wind component

Parameter name: Northward wind component
Parameter keyword: Atmosphere > Atmospheric Winds

Vorticity (relative)

Parameter name: Vorticity (relative)
Parameter keyword: Atmosphere > Atmospheric Winds

Divergence

Parameter name: Divergence
Parameter keyword: Atmosphere > Atmospheric Winds

Cloud cover

Parameter name: Cloud cover
Parameter keyword: Atmosphere > Clouds

Cloud ice water content

Parameter name: Cloud ice water content
Parameter keyword: Atmosphere > Clouds

Cloud liquid water content

Parameter name: Cloud liquid water content
Parameter keyword: Atmosphere > Clouds

Log surface pressure (at first level of the model)

Parameter name: Log surface pressure (at first level of the model)
Parameter keyword: Atmosphere > Atmospheric Pressure

Specific humidity

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

Downdraught detrainment rate

Parameter name: Downdraught detrainment rate
Parameter keyword: Atmosphere > Atmospheric Pressure

Downdraught mass flux

Parameter name: Downdraught mass flux
Parameter keyword: Atmosphere > Atmospheric Radiation

Updraught mass flux

Parameter name: Updraught mass flux
Parameter keyword: Atmosphere > Atmospheric Radiation

Total precipitation flux

Parameter name: Total precipitation flux
Parameter keyword: Atmosphere > Precipitation

Tendency of specific humidity due to physics

Parameter name: Tendency of specific humidity due to physics
Parameter keyword: Atmosphere > Atmospheric Water Vapor

Tendency of long wave radiation

Parameter name: Tendency of long wave radiation
Parameter keyword: Atmosphere > Atmospheric Radiation

Tendency of clear sky long wave radiation

Parameter name: Tendency of clear sky long wave radiation
Parameter keyword: Atmosphere > Atmospheric Radiation

Tendency of short wave radiation

Parameter name: Tendency of short wave radiation
Parameter keyword: Atmosphere > Atmospheric Radiation

Tendency of temperature due to physics

Parameter name: Tendency of temperature due to physics
Parameter keyword: Atmosphere > Atmospheric Temperature

Tendency of clear sky short wave radiation

Parameter name: Tendency of clear sky short wave radiation
Parameter keyword: Atmosphere > Atmospheric Radiation

Turbulent diffusion coefficient for heat

Parameter name: Turbulent diffusion coefficient for heat
Parameter keyword: Atmosphere > Atmospheric Radiation

Updraught detrainment rate

Parameter name: Updraught detrainment rate
Parameter keyword: Atmosphere > Atmospheric Pressure

Tendency of U-component due to physics

Parameter name: Tendency of U-component due to physics
Parameter keyword: Atmosphere > Atmospheric Winds

Tendency of V-component due to physics

Parameter name: Tendency of V-component due to physics
Parameter keyword: Atmosphere > Atmospheric Winds

Coverage

Temporal coverage

Date begin (yyyy-mm-jj): 2006-05-01
Date end (yyyy-mm-jj): 2006-10-01

Geographic coverage

Area name: ECMWF
West bounding coordinate (°): -100
East bounding coordinate (°): 50
North bounding coordinate (°): 47
South bounding coordinate (°): -25

Data use information

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