

# AS.ATR42-Turbul - Airborne turbulence measurements

## General information

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Dataset name: AS.ATR42-Turbul - Airborne turbulence measurements  
Created on: 2006-08-21

### Contact(s)

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### Period

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Date begin (yyyy-mm-jj): 2006-06-01  
Date end (yyyy-mm-jj): 2006-08-19

### Project(s)

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AMMA > AMMA-SOP

## Data description

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### Abstract

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Caractérisation de la dynamique atmosphérique, et des échanges sol/atmosphère.

### Observing strategy

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Euh...

## Instrument information

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### Sensor

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Manufacturer: Sextant

## Geographic information

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### ATR 42

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Location name: ATR 42  
Platform type: AIRCRAFT  
West bounding coordinate (°): 0.458  
East bounding coordinate (°): 8.123  
North bounding coordinate (°): 16.5145

South bounding coordinate (°): 2.1835  
Altitude max: 7875.3

## Measured parameters

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### Air Pressure

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Parameter name: Air Pressure  
Parameter keyword: Atmosphere > Atmospheric Pressure  
Unit: millibars - mbar  
Date begin (yyyy-mm-jj): 2006-06-01  
Date end (yyyy-mm-jj): 2006-08-19

### Covariance of W component and mixing ratio

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Parameter name: Covariance of W component and mixing ratio  
Parameter keyword: Atmosphere > Atmospheric Winds  
Unit: g.m/kg.s - g.m/kg.s  
Date begin (yyyy-mm-jj): 2006-06-01  
Date end (yyyy-mm-jj): 2006-08-19

### Wind Speed

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Parameter name: Wind Speed  
Parameter keyword: Atmosphere > Atmospheric Winds > Wind Speed  
Unit: meters per second - m/s  
Date begin (yyyy-mm-jj): 2006-06-01  
Date end (yyyy-mm-jj): 2006-08-19

### Variance of Potential Temperature

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Parameter name: Variance of Potential Temperature  
Parameter keyword: Atmosphere > Atmospheric Temperature > Surface Temperature > Maximum/Minimum Temperature  
Unit: square Kelvin - K<sup>2</sup>  
Date begin (yyyy-mm-jj): 2006-06-01  
Date end (yyyy-mm-jj): 2006-08-19

### Variance of U component

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Parameter name: Variance of U component  
Parameter keyword: Atmosphere > Atmospheric Winds  
Unit: square meters per square second - m<sup>2</sup>/s<sup>2</sup>  
Date begin (yyyy-mm-jj): 2006-06-01  
Date end (yyyy-mm-jj): 2006-08-19

## Covariance of W component and V component

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Parameter name: Covariance of W component and V component  
Parameter keyword: Atmosphere > Atmospheric Winds  
Unit: square meters per square second - m2/s2  
Date begin (yyyy-mm-jj): 2006-06-01  
Date end (yyyy-mm-jj): 2006-08-19

## Variance of V component

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Parameter name: Variance of V component  
Parameter keyword: Atmosphere > Atmospheric Winds  
Unit: square meters per square second - m2/s2  
Date begin (yyyy-mm-jj): 2006-06-01  
Date end (yyyy-mm-jj): 2006-08-19

## Variance of Humidity Mixing Ratio

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Parameter name: Variance of Humidity Mixing Ratio  
Parameter keyword: Atmosphere > Atmospheric Water Vapor  
Unit: square gramm per square kilogramm - g<sup>2</sup>/kg<sup>2</sup>  
Date begin (yyyy-mm-jj): 2006-06-01  
Date end (yyyy-mm-jj): 2006-08-19

## Mixing Ratio

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Parameter name: Mixing Ratio  
Parameter keyword: Atmosphere > Atmospheric Water Vapor  
Unit: grams per kilogram - g/kg  
Date begin (yyyy-mm-jj): 2006-06-01  
Date end (yyyy-mm-jj): 2006-08-19

## Heading

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Parameter name: Heading  
Parameter keyword: Spectral/Engineering > Platform Characteristics  
Unit: degrees - degrees  
Date begin (yyyy-mm-jj): 2006-06-01  
Date end (yyyy-mm-jj): 2006-08-19

## Wavelength of vertical velocity spectrum peak

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Parameter name: Wavelength of vertical velocity spectrum peak  
Parameter keyword: Atmosphere > Atmospheric Winds  
Unit: meters  
Date begin (yyyy-mm-jj): 2006-06-01  
Date end (yyyy-mm-jj): 2006-08-19

## Wind Direction

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Parameter name:	Wind Direction
Parameter keyword:	Atmosphere > Atmospheric Winds > Wind Direction
Unit:	degrees - degrees
Date begin (yyyy-mm-jj):	2006-06-01
Date end (yyyy-mm-jj):	2006-08-19

## Covariance of W component and TKE

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Parameter name:	Covariance of W component and TKE
Parameter keyword:	Atmosphere > Atmospheric Winds
Unit:	cubic meters per cubic second - m3/s3
Date begin (yyyy-mm-jj):	2006-06-01
Date end (yyyy-mm-jj):	2006-08-19

## Air Speed

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Parameter name:	Air Speed
Parameter keyword:	Spectral/Engineering > Platform Characteristics
Unit:	meters per second - m/s
Date begin (yyyy-mm-jj):	2006-06-01
Date end (yyyy-mm-jj):	2006-08-19

## Covariance of W component and temperature

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Parameter name:	Covariance of W component and temperature
Parameter keyword:	Atmosphere > Atmospheric Winds
Unit:	Kelvin meters per second - Km/s
Date begin (yyyy-mm-jj):	2006-06-01
Date end (yyyy-mm-jj):	2006-08-19

## Variance of W component

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Parameter name:	Variance of W component
Parameter keyword:	Atmosphere > Atmospheric Winds
Unit:	square meters per square second - m2/s2
Date begin (yyyy-mm-jj):	2006-06-01
Date end (yyyy-mm-jj):	2006-08-19

## Covariance of W component and U component

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Parameter name:	Covariance of W component and U component
Parameter keyword:	Atmosphere > Atmospheric Winds
Unit:	square meters per square second - m2/s2
Date begin (yyyy-mm-jj):	2006-06-01
Date end (yyyy-mm-jj):	2006-08-19

## Air Temperature

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Parameter name:	Air Temperature
Parameter keyword:	Atmosphere > Atmospheric Temperature > Surface Temperature > Air Temperature
Unit:	Degrees Celsius - °C
Date begin (yyyy-mm-jj):	2006-06-01
Date end (yyyy-mm-jj):	2006-08-19

## Data use information

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Use constraints:	AMMA data policy
Data policy:	AMMA data policy
Original data format(s):	ascii text