

DLR lidar measurements during T-REX

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GPS-coordinates of location:

Lat=36.7925661

Lon=118.2091667

Height: 1242 m ASL

Period of operation: 2006-03-14 until 2006-04-22

Parameters:

Radial velocity

Filtered radial velocity

Signal-to-noise-ratio (SNR)

Spectral width

Aerosol backscatter intensity

Data format: binary

Program to convert binary data (prd-files) to ASCII: prd2ascii.exe

Instructions for the conversion of binary data:

- unchecked all boxes in 'Vector proc'

- select parameter (e.g. Filtered velocity)

- browse prd-file (settings of the prd-file must not be read-only for the conversion)

- process

ASCII-file format:

Number of headerlines: 3

Line 1: Length of range gates (along-beam resolution)

Line 2: Range to center of gate (distance between lidar and measurement volume of the column beneath)

Line 3: Header for columns

Column 1: Time

Column 2: Azimuth

Column 3: Elevation

Columns 4-131: Lidar measurements (one line corresponds to one 'beam')