

LIDAR DIRECTORY FORM

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DATE: October 31, 2007

LIDAR LOCATION (CITY, COUNTRY, LAT., LONG.): Burjassot, Spain, 39.5N,
0.38W

SITE ELEVATION: 40 m

PARAMETER(S) OR CONSTITUENT(S) MEASURED:
Aerosol extinction coefficient

RESEARCH OBJECTIVES AND SPONSOR: Aerosol characterization (Spanish
Ministry of Education and Sciences)

MEASUREMENT TECHNIQUE: Elastic backscatter lidar

MEASUREMENT RANGE: 0.5 – 25 km

VERTICAL RESOLUTION: 15 m

FREQ. OF MEASUREMENT (TYPICALLY): 5 times/week

MEASUREMENT TIMES (TYPICALLY): 1200 UTC

LASER TYPE AND WAVELENGTH (s): Nd: YAG at 532 nm

LASER ENERGY/PULSE: 4 μ J/pulse at 532 nm

PULSE REPETITION RATE: 4.6 kHz

RECEIVER SIZE AND CONFIGURATION: 200 mm refractive telescope

DETECTORS USED: APD at 532 nm

SIGNAL PROCESSING:

ANALOG-TO-DIGITAL CONVERTER:

COMPUTER: PC

PLATFORM (if applicable):

PUBLICATIONS (5 recent and/or significant):

Pedros R., Estellés V, Gómez-Amo J.L., Utrillas M.P., Martínez-Lozano J.A.,
Determination of the Aerosol Extinction-To-Backscatter Ratio Using
Photometric Measurements. Submitted to *Journal of Geophysical Research*

COMMENTS:

PICTURES: