NIES Mie-scattering Lidar data in MR11-07 leg1 and leg2 cruises

[Operation]
Flash lamp pumped Nd/YAG laser with Q-switching is employed as light source.
Pulse repetition is 10 Hz. Diameter of telescope is 20 cm with 1mrad field of view.
PMT/APD are employed for light detection and the intensities are digitized with
12bit A/D converters in 6 m range resolution. Data is acquired in every 10 minutes.
More details can be found in the Cruise Report of R/V MIRAI MR11-07.

[Data Processing Method]
Attenuated backscatter coefficient is estimated using results of inversion with
Fernald's method(S1=50sr). Definition of depolarization ratio is S/P. Resolutions
are 10 min and 30 m.

[Data format]
netCDF

[Contact points]
Nobuo Sugimoto / Ichiro Matsui / Atsushi Shimizu / Tomoaki Nishizawa (NIES)

[Remarks]
1) Attenuated backscatter coefficients include both of backscatter from molecules
   and aerosols. They are attenuated by two-way transmittance between the lidar and
   the target air volume. There is no special treatment above clouds etc.
2) It is requested to include at least one person from NIES Lidar team as a co-author
   in the published work.

===