

## ***Interactive comment on “Laboratory measurements of the optical properties of sea salt aerosol” by R. Irshad et al.***

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In addition to the separate editor comments please address the following points:

- 1) Please indicate the applicable temperature range of the measurements of sea salt aerosol.
- 2) p76, line 12: This paragraph states that information about the infrared features of the component compounds of sea salt aerosol are not available in the literature. However, Cziczo and Abbata (1999) (reference given below), who also used FTIR spectroscopic analysis of aerosols, do show such graphical information for a number of compounds in the 500-4000  $\text{cm}^{-1}$  region. In particular two of these compounds show spectral features around 1300  $\text{cm}^{-1}$  which are present in the new measurements but noted in

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the text as lacking in the HITRAN data (see page 77, line 24 and page 78, line 22). It is interesting to note that the spectra presented in Cziczo and Abbata for NaCl alone do not appear to have features near 1300 cm<sup>-1</sup>.

Infrared Observations of the Response of NaCl, MgCl<sub>2</sub>, NH<sub>4</sub>HSO<sub>4</sub>, and NH<sub>4</sub>NO<sub>3</sub> Aerosols to Changes in Relative Humidity from 298 to 238 K D. J. Cziczo and J. P. D. Abbatt J. Phys. Chem. A, 104 (10), 2038 -2047, 2000. 10.1021/jp9931408

3) Please consider the additional references for the optical properties of water and sea salt given in ... <http://reflib.wikispaces.com/>

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Interactive comment on Atmos. Chem. Phys. Discuss., 8, 71, 2008.

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