**Ocean Science Discussions**

Interactive Comment

# *Interactive comment on* "An oceanographer's guide to GOCE and the geoid" *by* C. W. Hughes and R. J. Bingham

**C. Tscherning**

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On page 6, column 6, bottom, you claim that the spectrally-truncated geoid contain Gibbs' effects. Where is this documented ?? (As you can understand, I think it is nonsense). On page 8, column 1, line 15 you talk about 9 numbers. Now, there are only 6, since the matrix is symmetric. You should avoid using the term "tensor". It is confusing.

The description of the calculation of normal gravity, page 9, could have been avoided. (See e.g. http://cct.gfy.ku.dk/mg2.pdf ) It would have been much better to use only the spherical harmonic expansion in Legendre-polynomials. I am sure with this page you are scaring all oceanographers away.

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In equation (22) it would have been correct to start the summation from l=2.

C.C.tscherning

Interactive comment on Ocean Sci. Discuss., 3, 1543, 2006.

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