

DATASET description metadata for BCO-DMO

[Enter as much information as possible; PI name, cruise ID and dataset description required]

Dataset Name: QSk1p4p1 (CLC suggested: Gas Transfer Velocities)

[Preferred short name (20 characters or less) for the dataset]

Dataset description: Gas transfer velocities (normalized to $Sc=660$) derived from QuikSCAT normalized radar backscatter

[Brief sentence describing these data; preferably less than 60 characters]

Deployment:

[Cruise ID, mooring ID, dive number]

Deployment Synonyms:

[Other names commonly used to refer to this cruise or deployment]

Project: Southern Ocean GasEx

[The name of the project or program with which these data are associated]

Funding: NASA Grant #NNX08AB73G

[agency and award number; e.g. NSF-OCE 9999999]

Originating PI name and contact information:

David M. Glover

dglover@whoi.edu

MS #25

Woods Hole Oceanographic Inst.

Woods Hole, MA 02543

[Full name and current email, mailing address, phone, etc. for the PI associated with these data]

Co-PI name(s) and contact information:

Contact name and contact information:

Alisdair Tullo

atullo@whoi.edu

MS #25

Woods Hole Oceanographic Inst.

Woods Hole, MA 02543

[Best person to contact with any questions about these data (could be PI, post-doc or assistant)]

Location: Southern Ocean, Atlantic sector (30-50° W, 40-60° S)

[General description of study area; Ex: Sub-Antarctic waters 48 S 173 E.; lat/lon bounding box]

Parameter names, definitions and units: longitude (degrees), latitude (degrees), gas transfer velocity (cm/hr)

[If these are not explained in the data files, please include definitions and units here]

Sampling and Analytical Methodology: An empirical relationship between normalized radar backscatter (sigma-naught) and mean square slope is used in a field determined quadratic relationship between mean square slope and gas transfer velocity. QuikSCAT scatterometer sigma-naughts are obtained from a 13.4 GHz twin beam radar that scans the surface in a circular motion at 18 rpm. Reflected signals are binned into 25 km wind vector cells with a cross-track width of 1,800 km at the satellite's nominal altitude of 803 km.

[Include written description of methods or separate files with description of sampling and analytical methodology; please include name and description of sampling equipment and instrumentation and details of quality assurance and control procedures]

PI Notes: This is a research quality product and has not been completely ground truthed.

[can include anecdotal comments, notes or details regarding data quality]

Related files and references:

[Include any useful supporting documents; e.g. separate files or published papers with description of sampling and analytical methodology]