

Response to SC C6658: ‘Antarctic sea ice anomalies’, Steven Marcus, 08 Sep 2015

Response to SC C6670: ‘Antarctic sea ice anomaly increasingly variable?’, Zachary Jacobson, 08 Sep 2015

Response to SC C6737: ‘Antarctic sea ice anomalies’, Steven Marcus, 09 Sep 2015

Thanks for these comments. I do think that the Southern Ocean is likely key to understanding not only much of paleoclimate change but also future climate in coming decades and centuries. There needs to be much greater support for observations of exactly what is happening in the Southern Ocean and the effects on the entire ocean. Other comments about needed observations are included in the mini-paper that we wrote in response to SC C6361 (‘Predictions Implicit in “Ice Melt” Paper and Global Implications’ written by James Hansen and Makiko Sato), which is also available at

[http://www.columbia.edu/~jeh1/mailings/2015/20151012\\_IceMeltPredictions.pdf](http://www.columbia.edu/~jeh1/mailings/2015/20151012_IceMeltPredictions.pdf).