

## Velocities of the Amery Ice Shelf's Primary Tributary Glaciers, 2004-2012: Supplementary Information

The following information provides a list of the dates and images used in the study (Table 1) and the velocity and error fields calculated for each set of image pairs (Figures S1-S7). All image backdrops are based on the 2004 Landsat 7 Image.

Table 1: Landsat7 images names and acquisition time used in the study.

Date	File Name	Time (days)	Cloud Cover %
02/01/2004	LE71271122004032ASN01	N/A	2%
02/19/2005	LE71271122005050PFS00	384	4%
02/22/2006	LE71271122006053PFS00	368	0%
02/09/2007	LE71271122007040SGS00	352	4%
02/12/2008	LE71271122008043SGS01	368	3%
02/14/2009	LE71271122009045SGS00	368	28%
02/01/2010	LE71271122010032SGS00	N/A	45%
02/20/2011	LE71271122011051PFS00	384	3%
02/23/2012	LE71271122012054PFS00	368	19%

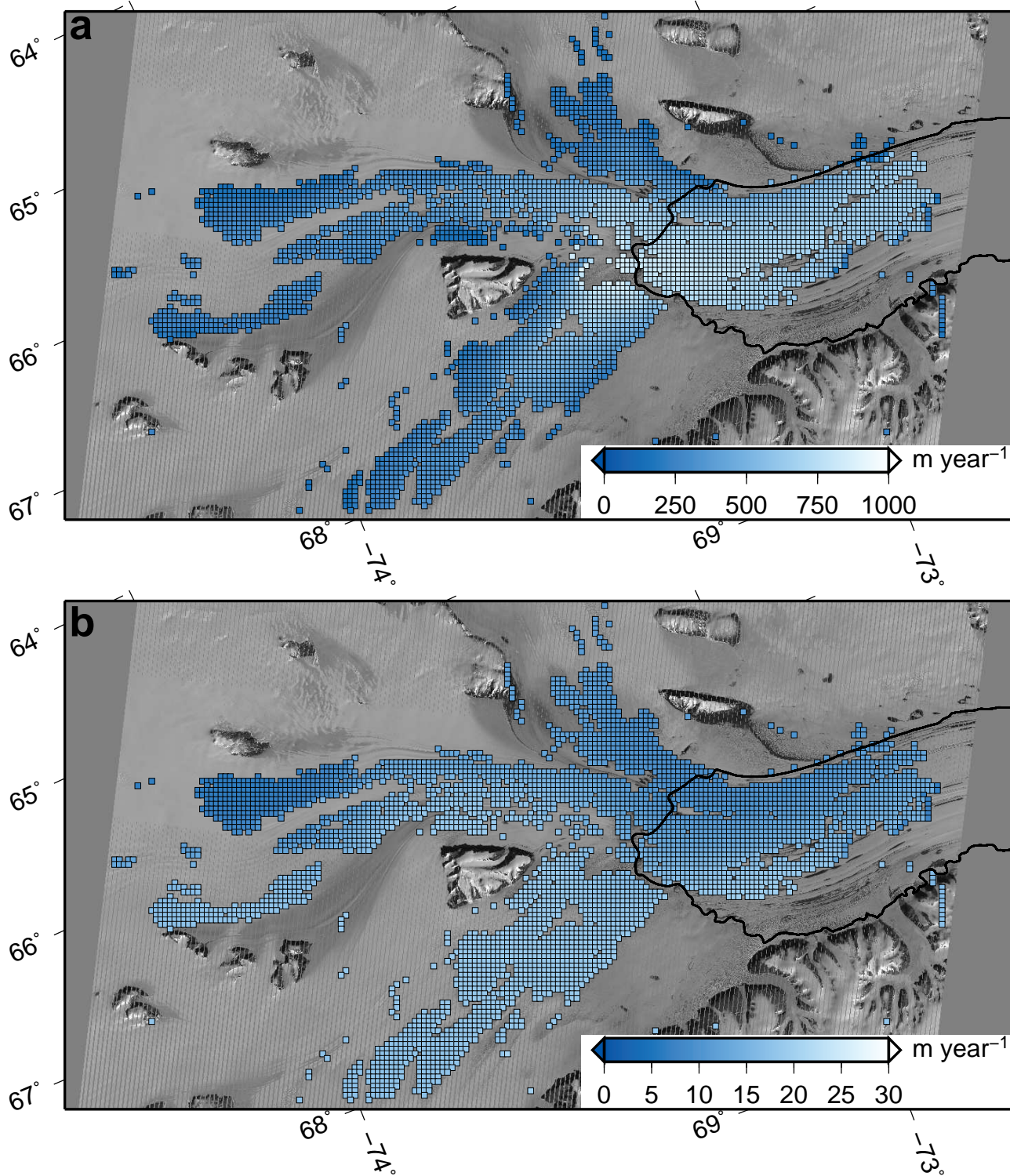


Figure 1: a) The coverage of velocities for the 2004/2005 image pairs b) The coverage of errors for the 2004/2005 image pairs

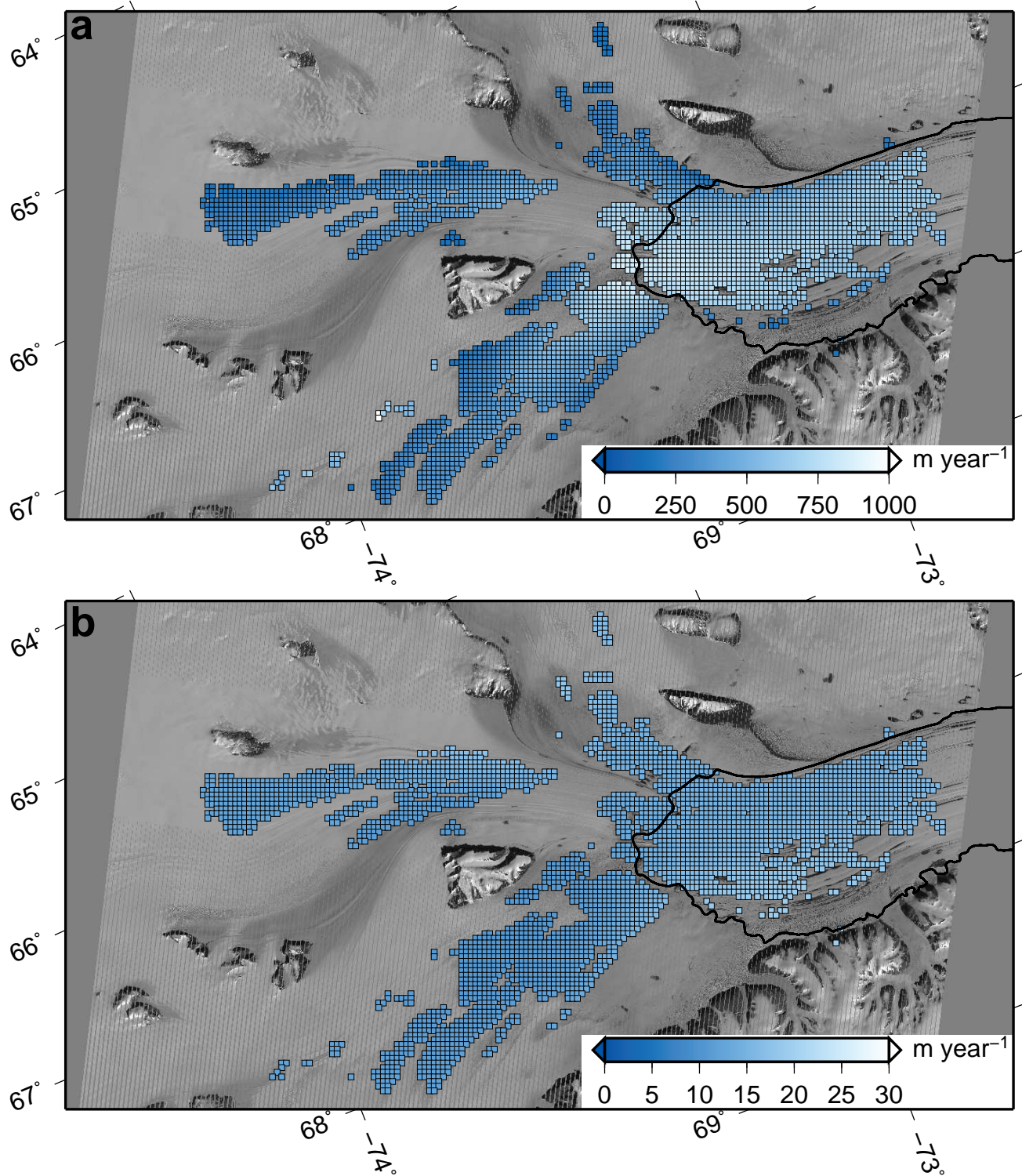


Figure 2: a) The coverage of velocities for the 2005/2006 image pairs b) The coverage of errors for the 2005/2006 image pairs



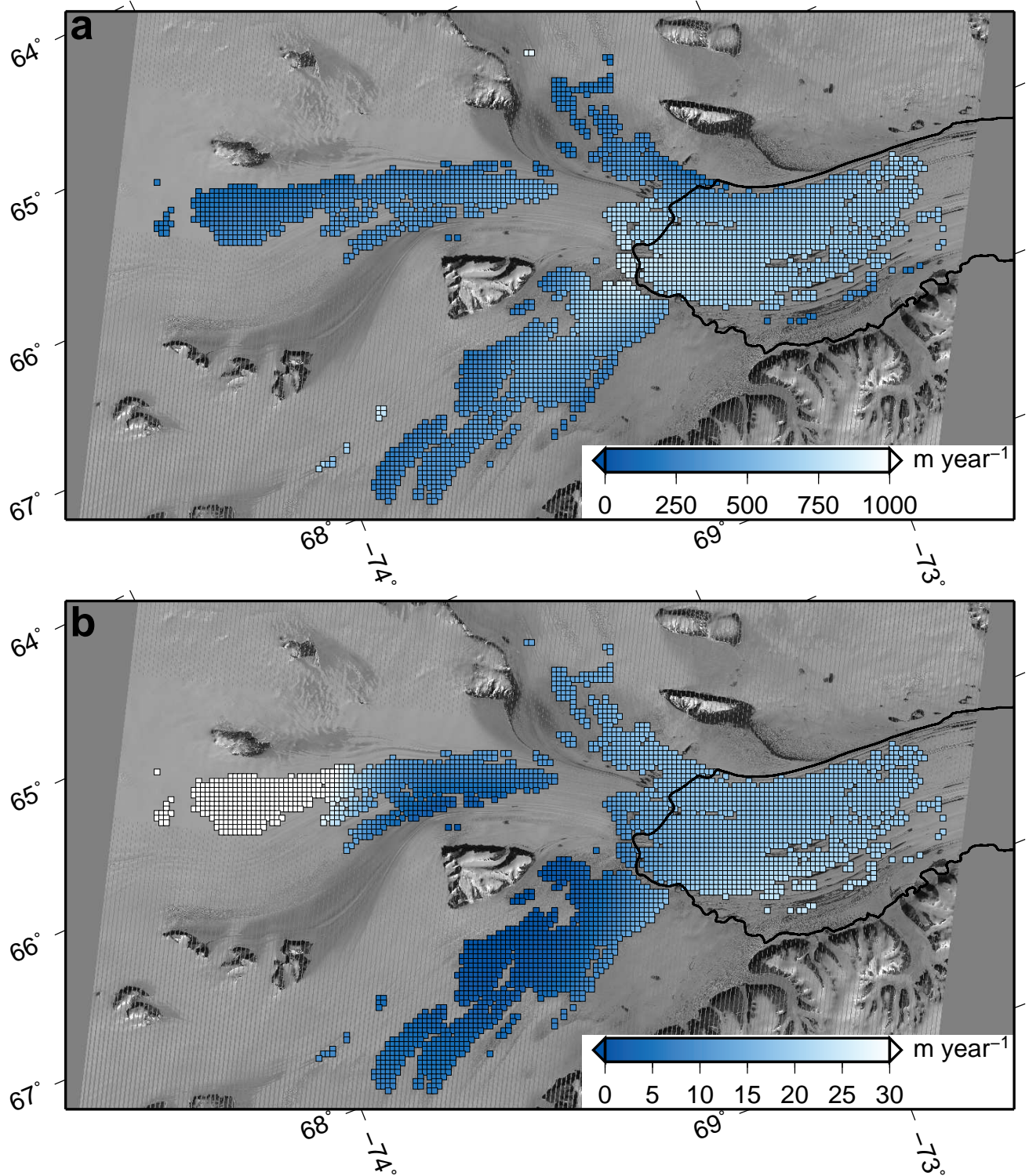


Figure 3: a) The coverage of velocities for the 2006/2007 image pairs b) The coverage of errors for the 2006/2007 image pairs

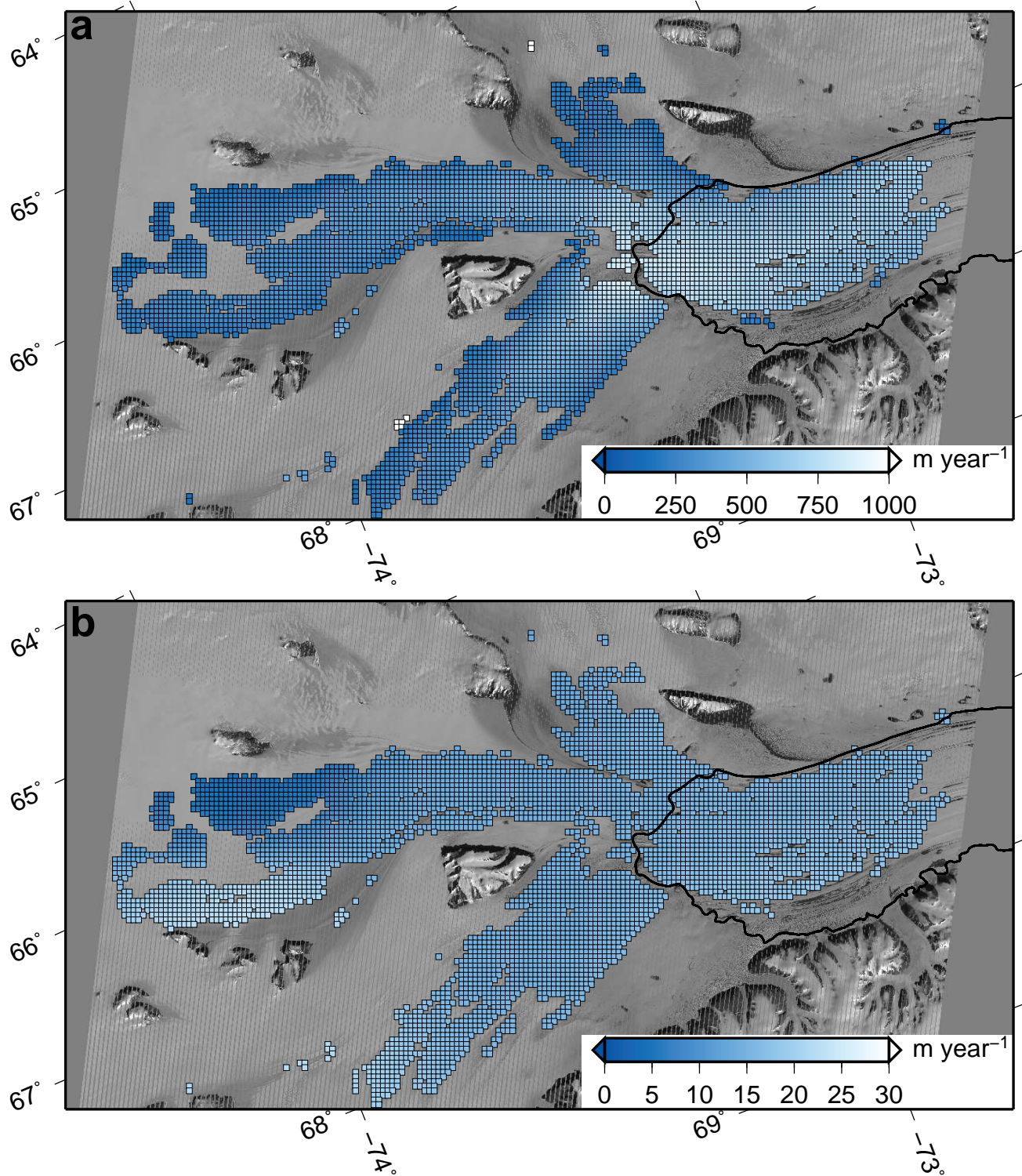


Figure 4: a) The coverage of velocities for the 2007/2008 image pairs b) The coverage of errors for the 2007/2008 image pairs



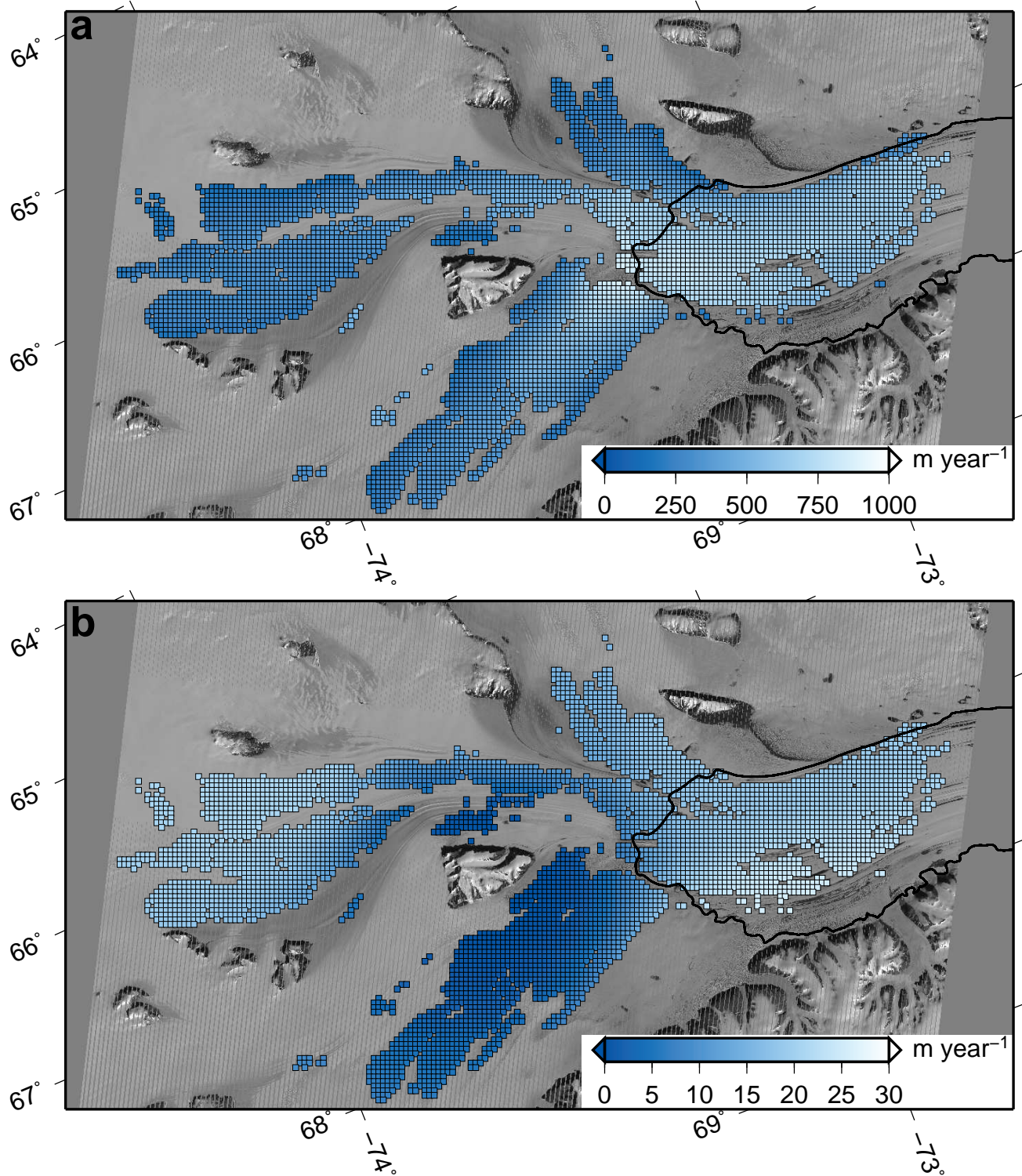


Figure 5: a) The coverage of velocities for the 2008/2009 image pairs b) The coverage of errors for the 2008/2009 image pairs

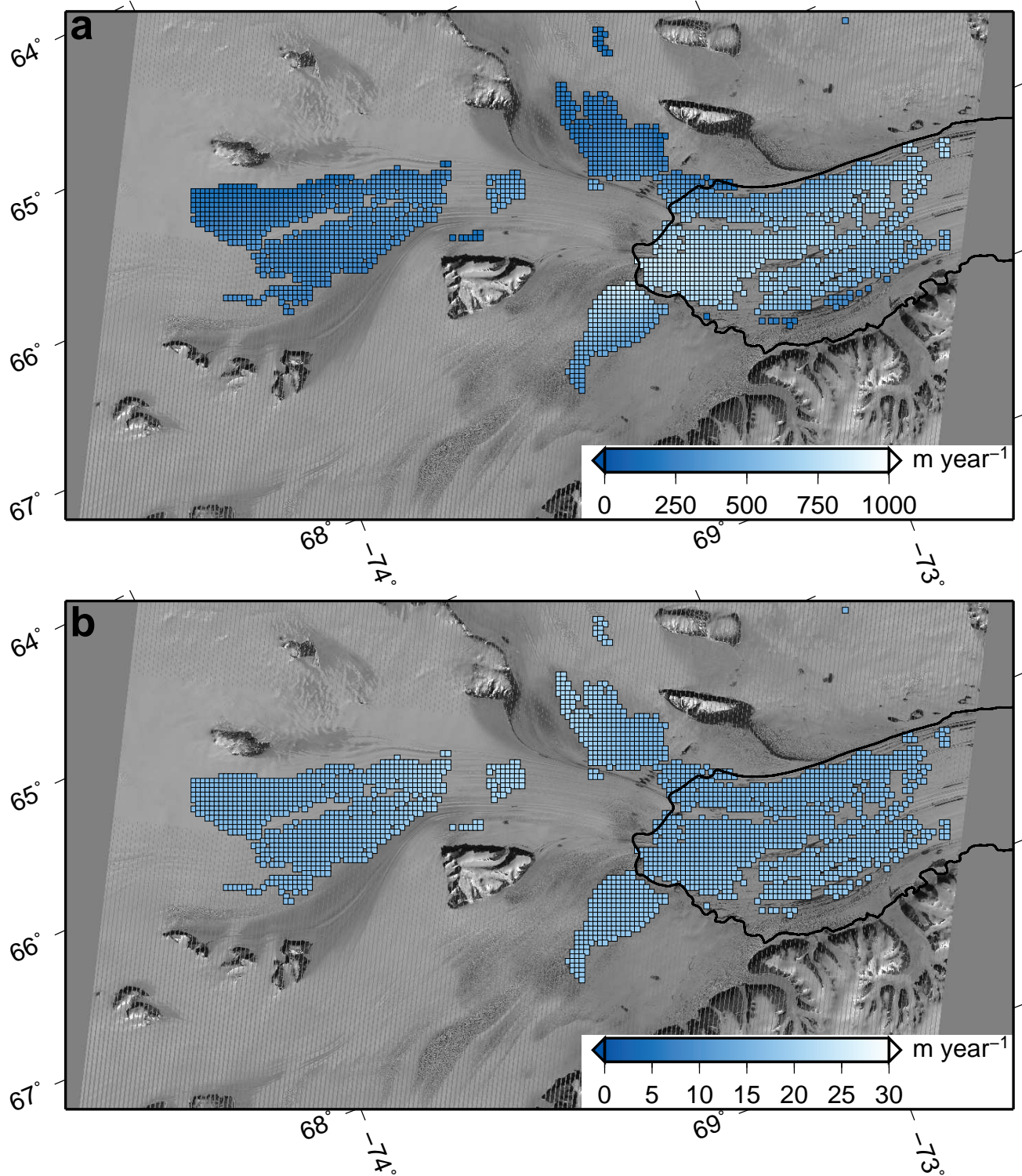


Figure 6: a) The coverage of velocities for the 2010/2011 image pairs b) The coverage of errors for the 2010/2011 image pairs



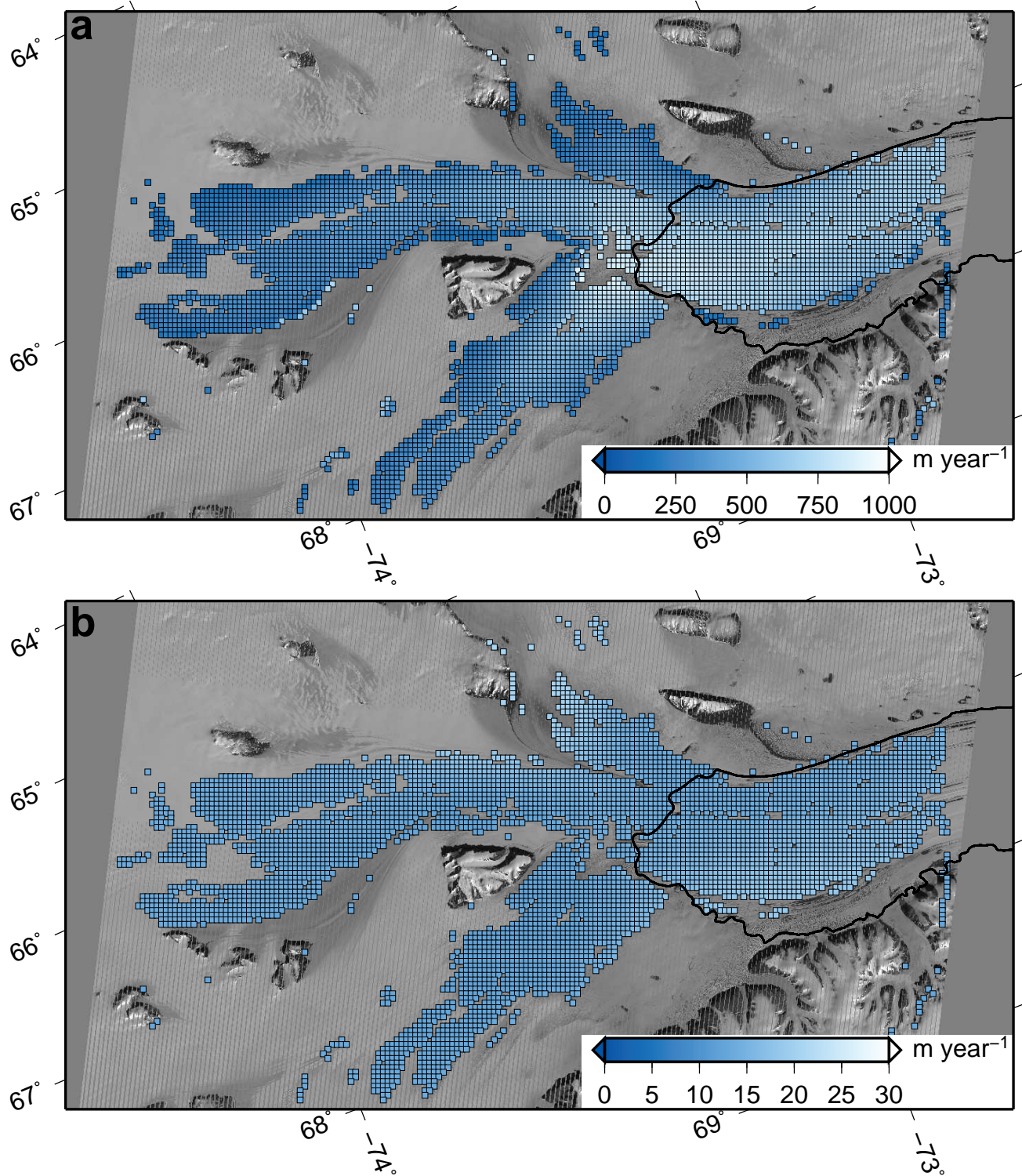


Figure 7: a) The coverage of velocities for the 2011/2012 image pairs b) The coverage of errors for the 2011/2012 image pairs