



Supplement of

Lateral meltwater transfer across an Antarctic ice shelf

Rebecca Dell et al.

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Supplements

Image ID	Satellite	Image Acquisition Date	Image Group
LC08_L1GT_165109_20161102_20170318_01_T2	Landsat 8	02/11/2016	1
LC08_L1GT_165110_20161102_20170318_01_T2	Landsat 8	02/11/2016	1
S2A_MSIL1C_20161111T074922_N0204_R106_T32DNG_20161111T074922	Sentinel-2	11/11/2016	2
S2A_MSIL1C_20161111T074922_N0204_R106_T32DNH_20161111T074922	Sentinel-2	11/11/2016	2
S2A_MSIL1C_20161111T074922_N0204_R106_T32DPG_20161111T074922	Sentinel-2	11/11/2016	2
S2A_MSIL1C_20161111T074922_N0204_R106_T32DPH_20161111T074922	Sentinel-2	11/11/2016	2
S2A_MSIL1C_20161114T075922_N0204_R006_T32DNG_20161114T075925	Sentinel-2	14/11/2016	3
S2A_MSIL1C_20161114T075922_N0204_R006_T32DNH_20161114T075925	Sentinel-2	14/11/2016	3
S2A_MSIL1C_20161114T075922_N0204_R006_T32DPG_20161114T075925	Sentinel-2	14/11/2016	3
S2A_MSIL1C_20161114T075922_N0204_R006_T32DPH_20161114T075925	Sentinel-2	14/11/2016	3
LC08_L1GT_165109_20161204_20170317_01_T2	Landsat 8	04/12/2016	4
LC08_L1GT_165110_20161204_20170317_01_T2	Landsat 8	04/12/2016	4
LC08_L1GT_166109_20161211_20170316_01_T2	Landsat 8	11/12/2016	5
LC08_L1GT_166110_20161211_20170316_01_T2	Landsat 8	11/12/2016	5
S2A_MSIL1C_20161217T080922_N0204_R049_T32DNG_20161217T080925	Sentinel-2	17/12/2016	6
S2A_MSIL1C_20161217T080922_N0204_R049_T32DNH_20161217T080925	Sentinel-2	17/12/2016	6
S2A_MSIL1C_20161217T080922_N0204_R049_T32DPG_20161217T080925	Sentinel-2	17/12/2016	6
S2A_MSIL1C_20161217T080922_N0204_R049_T32DPH_20161217T080925	Sentinel-2	17/12/2016	6
LC08_L1GT_166109_20161227_20170314_01_T2	Landsat 8	27/12/2016	7
LC08_L1GT_166110_20161227_20170314_01_T2	Landsat 8	27/12/2016	7
S2A_MSIL1C_20170126T080921_N0204_R049_T32DNG_20170126T080920	Sentinel-2	26/01/2017	8
S2A_MSIL1C_20170126T080921_N0204_R049_T32DNH_20170126T080920	Sentinel-2	26/01/2017	8
S2A_MSIL1C_20170126T080921_N0204_R049_T32DPG_20170126T080920	Sentinel-2	26/01/2017	8
S2A_MSIL1C_20170126T080921_N0204_R049_T32DPH_20170126T080920	Sentinel-2	26/01/2017	8
LC08_L1GT_166109_20170213_20170228_01_T2	Landsat 8	13/02/2017	9

LC08_L1GT_166110_20170213_20170228_01_T2	Landsat 8	13/02/2017	9	
S2A_MSIL1C_20170225T080921_N0204_R049_T32DNG_20170225T080922	Sentinel-2	25/02/2017	10	
S2A_MSIL1C_20170225T080921_N0204_R049_T32DNH_20170225T080922	Sentinel-2	25/02/2017	10	
S2A_MSIL1C_20170225T080921_N0204_R049_T32DPG_20170225T080922	Sentinel-2	25/02/2017	10	
S2A_MSIL1C_20170225T080921_N0204_R049_T32DPH_20170225T080922	Sentinel-2	25/02/2017	10	
LC08_L1GT_167109_20170324_20170329_01_T2	Landsat 8	24/03/2017	11	
LC08_L1GT_167110_20170324_20170329_01_T2	Landsat 8	24/03/2017	11	
S1B_EW_GRDM_1SSH_20170126T193341_20170126T193445_004023_006F36_234 F	Sentinel-1	26/01/2017	N/A	
SETSM_WV02_20160131_10300100502E9A00_103001005041DF00_seg1_2m_v1.0_ dem.tif	REMA	31/01/2016	N/A	
51_34_8m (accessed at http://data.pgc.umn.edu/elev/dem/setsm/REMA/mosaic/v1.1/8m/)	REMA	N/A	REMA mosaic	8m
51_35_8m (accessed at	REMA	N/A	REMA	8m
http://data.pgc.umn.edu/elev/dem/setsm/REMA/mosaic/v1.1/8m/)			mosaic	
52_34_8m (accessed at	REMA	N/A	REMA	8m
http://data.pgc.umn.edu/elev/dem/setsm/REMA/mosaic/v1.1/8m/)		N1/A	mosaic	0
52_35_8/II (accessed at	REMA	IN/A	REMA	8111
niip.//uaia.pyc.uniii.euu/eiev/ueiii/Seisiii/hEiviA/mosaic/v1.1/oiii/)			musalu	

S.1: A record of all images used in this study, showing the image ID, associated satellite, acquisition date, and image group number. The image group number indicates which group of images the image was mosaicked with.

S.2: GIF of all 11 RGB base images (https://doi.org/10.5446/47526, (Dell et al., 2020a))

S.3: GIF of all 11 area matrices (https://doi.org/10.5446/47524, (Dell et al., 2020b))

S.4: GIF of all 11 depth matrices (https://doi.org/10.5446/47525, (Dell et al., 2020c))



S.5: The paths used for extracting the elevation profiles of the WS and ES (marked by the red lines), overlain on the maximum depth matrix. We used the maximum depth matrix to guide the digitisation of each path, following the deepest water where possible. The base satellite image for the figure was acquired by Landsat 8 on 13th February 2017.