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*Published in:*  
Journal of Glaciology

*DOI:*  
[10.1017/jog.2022.7](https://doi.org/10.1017/jog.2022.7)

*Publication date:*  
2022

*Citation for published version (APA):*

Holt, T., & Glasser, N. F. (2022). Changes in area, flow speed and structure of southwest Antarctic Peninsula ice shelves in the 21st century. *Journal of Glaciology*, 68(271), 927-945. <https://doi.org/10.1017/jog.2022.7>

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**Changes in area, flow speed and structure of southwest Antarctic Peninsula ice shelves in the 21<sup>st</sup> century**

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**SUPPLEMENTARY TABLE S1**

**Table S1.** Satellite scenes used in this study to measure area change, examine ice shelf structures and calculate surface flow speed. Table arranged by satellite sensor, ice shelf covered and scene date.

Satellite sensor (max. resolution)	Ice shelf coverage	Scene date (DD/MM/YYYY)	Scene ID	Area change	Structures	Flow speed
ASTER (15 m)	Bach	30/12/2004	AST_L1T_00312302004052259_201505071 71152_15883		✓	
Landsat 7 ETM+ (15 m panchromatic & pan-sharpened)	Bach	10/11/2009	LE07_L1GT_218111_20091110_20161219	✓	✓	
	Stange	19/12/2009	LE07_L1GT_219112_20091219_20161218	✓	✓	
	George VI North	29/01/2010	LE07_L1GT_218109_20100129_20161217	✓	✓	
	George VI South	10/11/2009	LE07_L1GT_218112_20091110_20161219	✓	✓	
Landsat 8 OLI	Bach	27/11/2013	LC08_L1GT_220111_20131127_20170428	✓	✓	
	Bach	11/02/2015	LC08_L1GT_219111_20150211_20170413	✓		
	Bach	15/01/2017	LC08_L1GT_219111_20170115_20170311	✓		
	Bach	17/12/2017	LC08_L1GT_219111_20171217_20171224	✓		
	Bach	06/02/2019	LC08_L1GT_219111_20190206_20190221	✓		✓
	Bach	07/12/2019	LC08_L1GT_219111_20191207_20191217			✓
	Bach	24/01/2020	LC08_L1GT_219111_20200124_20200128	✓		
	Stange	27/11/2013	LC08_L1GT_220112_20131127_20170428	✓	✓	
	Stange	10/01/2015	LC08_L1GT_139132_20150110_20170415	✓		
	Stange	22/01/2017	LC08_L1GT_220112_20170122_20170311	✓		
	Stange	10/02/2018	LC08_L1GT_220112_20180210_20180222	✓		
	Stange	28/01/2019	LC08_L1GT_220112_20190128_20190206	✓		
	Stange	20/02/2019	LC08_L1GT_221111_20190220_20190308			✓
	Stange	20/02/2019	LC08_L1GT_221112_20190220_20190308			✓
	Stange	05/12/2019	LC08_L1GT_221111_20191205_20191217			✓
	Stange	05/12/2019	LC08_L1GT_221112_20191205_20191217			✓
	Stange	30/12/2019	LC08_L1GT_140132_20191230_20200111	✓	✓	
	George VI North	31/12/2013	LC08_L1GT_218109_20131231_20170427	✓	✓	
	George VI North	04/02/2015	LC08_L1GT_218109_20150204_20170413	✓		

	George VI North	04/03/2017	LC08_L1GT_219109_20170304_20170316	✓		
	George VI North	26/12/2017	LC08_L1GT_218109_20171226_20180103	✓		
	George VI North	06/02/2019	LC08_L1GT_219109_20190206_20190221	✓		✓
	George VI North	17/01/2020	LC08_L1GT_218109_20200117_20200128	✓	✓	✓
	George VI South	24/12/2013	LC08_L1GT_217112_20131224_20170427	✓	✓	
	George VI South	27/12/2014	LC08_L1GT_217112_20141227_20170415	✓		
	George VI South	17/01/2017	LC08_L1GT_217112_20170117_20170311	✓		
	George VI South	25/03/2018	LC08_L1GT_217112_20180325_20180404	✓		
	George VI South	06/12/2018	LC08_L1GT_217112_20181206_20181211	✓		
	George VI South	06/02/2019	LC08_L1GT_219112_20190206_20190221			✓
	George VI South	15/02/2019	LC08_L1GT_218111_20190215_20190222			✓
	George VI South	15/02/2019	LC08_L1GT_218112_20190215_20190222			✓
	George VI South	29/10/2019	LC08_L1GT_218111_20191029_20191114			✓
	George VI South	29/10/2019	LC08_L1GT_218112_20191029_20191114			✓
	George VI South	07/12/2019	LC08_L1GT_219112_20191207_20191217			✓
	George VI South	25/12/2019	LC08_L1GT_217112_20191225_20200110	✓	✓	
Sentinel 2	Stange	19/12/2019	S2B_MSIL2A_20191219T134959_N0213_R081_T17CNU_20191219T172240	✓	✓	
	Stange	19/12/2019	S2B_MSIL2A_20191229T134959_N0213_R081_T17CPV_20191229T172134	✓	✓	
	Stange	19/12/2019	S2B_MSIL2A_20191219T134959_N0213_R081_T18CVD_20191219T172240	✓	✓	
	George VI North	19/01/2020	S2B_MSIL1C_20200119T131859_N0208_R095_T19DDC_20200119T142732	✓	✓	
	George VI North	19/01/2020	S2B_MSIL1C_20200119T131859_N0208_R095_T19DEC_20200119T142732	✓	✓	