Table 1. Gorner Glacier Dates and Rates

	{**Station,** velocity (cm/day)}		**Reference**
GPS velocity before drainage	{**24**; 3.8}, {**34**; 4.7}, {**36**; 6.8}, {**37**; 6.8}		Garcia et al., 2019 (supplement)
Reported lake-drainage event	**Date, 2007**	**Reason for report**	**Reference**
Supraglaical lake drainage begins	July 4	Lake reaches moulin	Werder et al., 2009a
Subglacial drainage begins	July 7	Increased lake discharge	“
Englacial drainage begins	July 7	Lake enters crevasse in lake basin	“
Drainage ends	July 15	Lake empty	“
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Noise cluster timings	**Date, 2007**		
Blue, Purple and Orange begin	June 14		
Purple (4), pauses	July 4		
Red (2) begins*	July 5	*Onset of subglacial flooding?*	
Blue (1) ends	July 5-6		
Orange (3) sporadic	July 5-10		
Orange (3) pauses	July 10		
Purple (4) resumes	July 15		
Orange (3) resumes	July 17		
** ~98% of events*			

	Icequakes	**Continuous**
Number of records	1411	1521
Record length	2 seconds	60 seconds
Sampling frequency	1000 sps	1000 sps
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STFT parameters		
STFT window length	.08 seconds	1.1 seconds
STFT window overlap	25%	25%
Number of STFT windows	33	72
Minimum frequency (Hz)	15	1
Maximum frequency (Hz)	80	80
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SpecUFEx parameters		
Number of hidden states	15	15
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Clustering parameters		
Number of clusters	3	4
Average silhouette score		