09162 Glacier Info

Input data files

DEM file	RGI1_DEM/RGI60-01.09162_dem.tif
Change in thickness file	09162_dhdt.tif (Hugonnet, 2000-2020)
Thickness file	09162_h.tif (MillanThickness)
Velocity file(s)	['ITS_LIVE_2017-2018', 'MillanVelocity_2017-2018', 'RETREAT_2017-2018']

Input Constants and Assumptions

Resolution (m)	Density (kg/m3)	Vel Col Scaling Factor	Elevation Bin Width (m)	Coordinate system
20	850	0.8	50	EPSG:32606

Input Calculation Settings

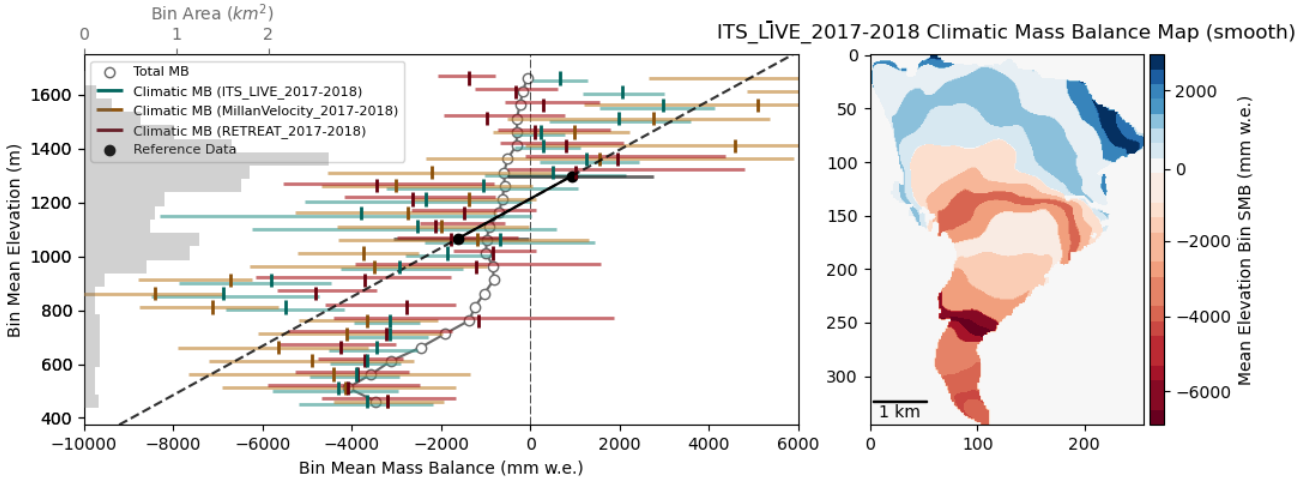
Smoothing Filter	Smoothing Factor (raw data)	Smoothing Factor (divQ product)
Dynamic Window Gaussian Filter	4x local thickness	1x local thickness

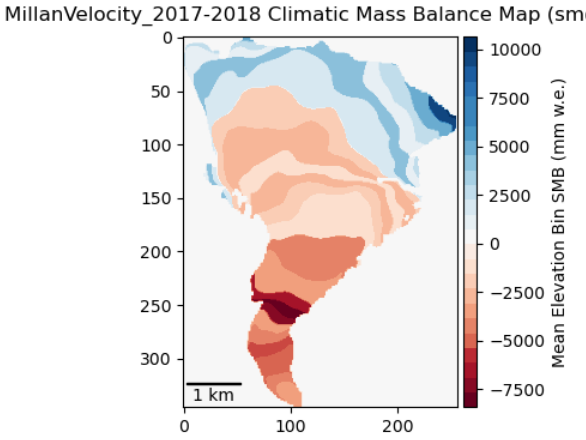
Smoothing is only done for velocity and ice thickness data. If dynamic smoothing uses 0 for both inputs, there is no smoothing

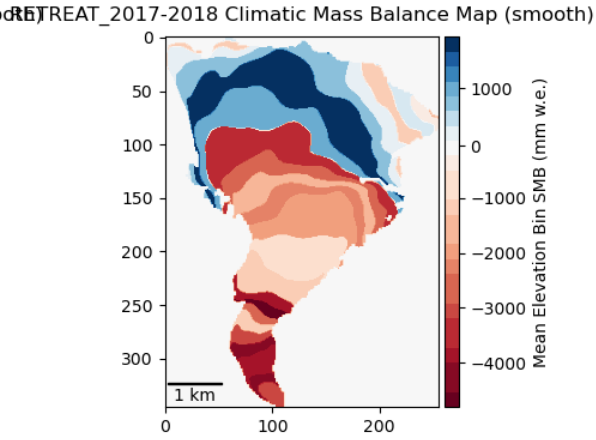
Calculation Results

Area	16.74 (sq. km)
Total MB	-753.14 (mm w.e.)
Total MB, alt-resolved	-753.14 (mm w.e.)
Climatic MB: ITS_LIVE_2017-2018	-767.74 (mm w.e.)
Climatic MB: MillanVelocity_2017-2018	-781.41 (mm w.e.)
Climatic MB: RETREAT_2017-2018	-743.86 (mm w.e.)
Scatter plot error bar value	percentile: lower bound at 25%, upper bound at 75%

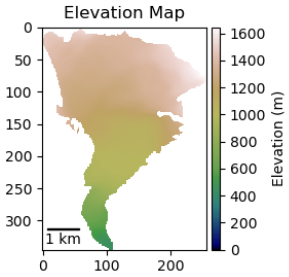
Climatic MB from emergence method does not use smoothed data

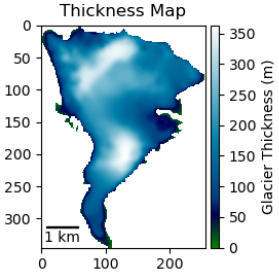


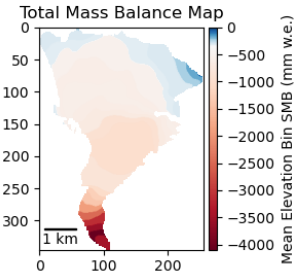




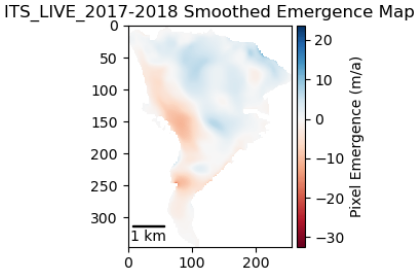
09162 Thickness, Elevation, Total MB Plots

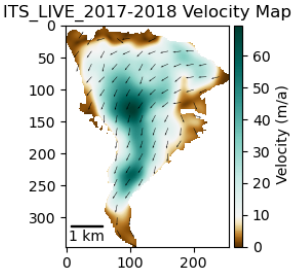


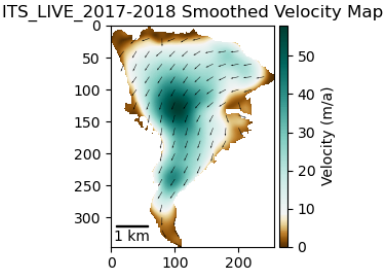




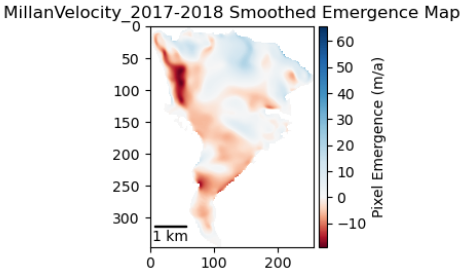
09162 ITS_LIVE_2017-2018 Velocity Products

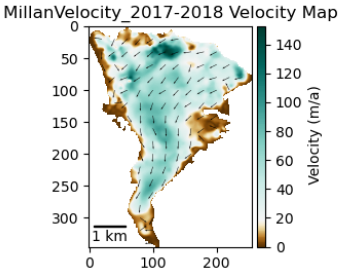


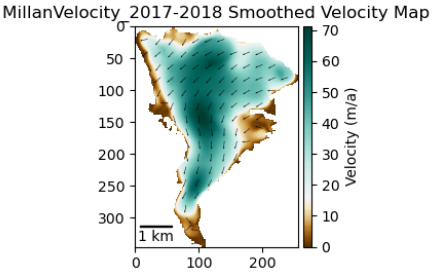




09162 MillanVelocity_2017-2018 Velocity Products







09162 RETREAT_2017-2018 Velocity Products