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Citation: Pohlenz, A., Rudolf, M., Kemnitz, H., Rosenau, M. (2020). Ring shear test data of 300-400 mm glass beads used for analogue experiments in the Helmholtz Laboratory for Tectonic Modelling (HelTec) at the GFZ German Research Centre for Geosciences in Potsdam, GFZ Data Services,, <http://doi.org/10.5880/GFZ.4.1.2020.008>

Subfolder	File name	File format	Content
	2020-008_Pohlenz-et-al_DoD	.pdf	Description of data and methods
	2020-008_Pohlenz-et-al_LoF	.pdf	List of files
2020-008_Pohlenz-et-al_Products	428-01_Glassbeads_300_400_vst	.pdf	Visualization of the VST data
	437-01_Glassbeads_300_400_dynamic	.txt	Pairs of normal stress and corresponding shear strength for dynamic friction
	437-01_Glassbeads_300_400_fricmut	.txt	Results of the mutual linear regression analysis
	437-01_Glassbeads_300_400_fricstd	.txt	Results of the linear least-squares method
	437-01_Glassbeads_300_400_hist	.pdf	Histograms of friction coefficients and cohesions
	437-01_Glassbeads_300_400_linregr	.pdf	Mohr plot of friction data
	437-01_Glassbeads_300_400_peak	.txt	Pairs of normal stress and corresponding shear strength for peak friction
	437-01_Glassbeads_300_400_reactivation	.txt	Pairs of normal stress and corresponding shear strength for reactivation friction
	437-01_Glassbeads_300_400_ts	.pdf	Visualization of time series data (shear curves): Shear stress vs. displacement for 18 measurements
	437-01_Glassbeads_300_400_ts	.txt	Table of time series data for 18 measurements of shear stress (Pa, columns 2-19) at given normal stresses (Pa, first cell in each column) vs. time (column 1)
2020-008_Pohlenz-et-al_Data	428-01_Glassbeads_300_400_vst	.tdms	Binary raw data measured by the compactRIO. Each file represents one measurement at a constant normal stress. The files contain all four measured channels in a folder like file structure including additional properties. See ni.com for more details.
	437-01_01_Glassbeads_300_400 [f=5Hz] [2019-03-18_103822]	.tdms	
	437-01_02_Glassbeads_300_400 [f=5Hz] [2019-03-18_105815]	.tdms	
	437-01_03_Glassbeads_300_400 [f=5Hz] [2019-03-18_111722]	.tdms	
	437-01_04_Glassbeads_300_400 [f=5Hz] [2019-03-18_113555]	.tdms	
	437-01_05_Glassbeads_300_400 [f=5Hz] [2019-03-18_115352]	.tdms	
	437-01_06_Glassbeads_300_400 [f=5Hz] [2019-03-18_121554]	.tdms	
	437-01_07_Glassbeads_300_400 [f=5Hz] [2019-03-18_124900]	.tdms	
	437-01_08_Glassbeads_300_400 [f=5Hz] [2019-03-18_130645]	.tdms	
	437-01_09_Glassbeads_300_400 [f=5Hz] [2019-03-18_132410]	.tdms	
	437-01_10_Glassbeads_300_400 [f=5Hz] [2019-03-18_134053]	.tdms	
	437-01_11_Glassbeads_300_400 [f=5Hz] [2019-03-20_112030]	.tdms	
	437-01_12_Glassbeads_300_400 [f=5Hz] [2019-03-20_121420]	.tdms	
	437-01_13_Glassbeads_300_400 [f=5Hz] [2019-03-20_123204]	.tdms	
	437-01_14_Glassbeads_300_400 [f=5Hz] [2019-03-20_124827]	.tdms	
	437-01_15_Glassbeads_300_400 [f=5Hz] [2019-03-20_130729]	.tdms	
	437-01_16_Glassbeads_300_400 [f=5Hz] [2019-03-20_133655]	.tdms	
	437-01_17_Glassbeads_300_400 [f=5Hz] [2019-03-20_135407]	.tdms	
	437-01_18_Glassbeads_300_400 [f=5Hz] [2019-03-20_141716]	.tdms	
437-01_Glassbeads_300_400	.cfg	configuration file with the settings used for the Python-based analysis	

Subfolder	File name	File format	Content
2020-008_Pohlenz-et-al_SEM images	04_01_50x	.tif	Scanning electron microscope images of the material
	04_02_50x	.tif	
	04_02a_50x	.tif	
	04_03_150x	.tif	
	Glass_300-400_1	.tif	
	Glass_300-400_1a	.tif	
	Glass_300-400_2	.tif	
	Glass_300-400_2a	.tif	
	Glass_300-400_2b	.tif	
	Glass_300-400_2ov2	.tif	
	Glass_300-400_2ov3	.tif	
	Glass_300-400_ov	.tif	