Westlake US 2 Received 8/7/2023

TSX/PAZ Satellite Update InSAR Subsidence August 4, 2023

Lonquist comment:

The PAZ satellite from the TSX/PAZ constellation (4 & 7-day revisit) passed by Sulphur on Thursday August 3. We received the dataset Saturday and verified that none of the datapoint areas around the dome and caverns near the western flank are showing deviation from their linear trend. The attached time series plots have been prepared for reference.



TSX/PAZ Constellation Update

Continuous InSAR Monitoring of
Ground Displacement
Near Western Caverns and Dome Flank

Sulphur Dome Westlake Chemicals

August 3, 2023 Update



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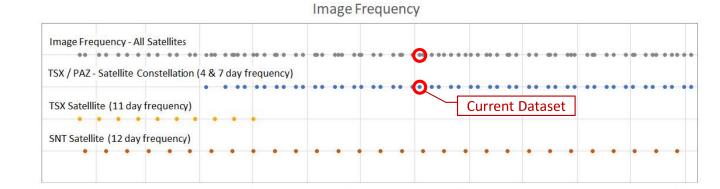


Parameters of InSAR Dataset and Collection Frequency

1/1/2023

- Satellite Data Delivery Frequency as of April 2023:
 - Sentinel 1 (SNT) 12 days
 - TSX / PAZ Constellation
 4 & 7 days
 - 3.96-day avg. frequency

			TSX/PAZ Constellation	
	Sentinel-1	TerraSAR-X	TerraSAR-X	PAZ
Mode / Resolution	16 x 65 ft	Spotlight (3 x 3 ft)	Spotlight (3 x 3 ft)	Spotlight (3 x 3 ft)
Track	T136	T29	T67	T120
Band (wavelength)	C-Band (2.32 in)	X-Band (1.22 in)	X-Band (1.22 in)	X-Band (1.22 in)
Nominal frequency	12- day	11- day	11- day	11- day
Orbit (LOS angle)	Ascending 43°	Descending 17°	Descending 37°	Descending 37°
Date range	04 Oct 2016 – 20 Jan 2024	16 Jun 2022 – 01 May 2023	24 Jan 2023 – 11 Jan 2024	28 Jan 2023 – 15 Jan 2024
Number of images	199	30	34	33



7/1/2023

9/1/2023

5/1/2023

3/1/2023

1/1/2024

11/1/2023

Overview and Monitoring History

- Beginning in late January, ground displacement over the western portion of the Sulphur Mines Salt Dome has been evaluated following the delivery of each dataset update from TRE-Altamira
- An automated process and set of deliverables to convey the results of the datasets is being developed that will evaluate multiple factors including trend consistency and mapped acceleration of ground displacement
- Current updates are focused on the review of time series charts of averaged data for selections of points around the dome and caverns on the western flank
- The TSX/PAZ satellite constellation (4 & 7-day revisit) passed by Sulphur on <u>Thursday August 3, 2023</u>
- The following slides present the time series and associated linear trends for each location evaluated from this dataset
- To-date there has been <u>no material deviation</u> from the established subsidence trends in the areas investigated

TSX/PAZ Constellation – August 3, 2023 Update

