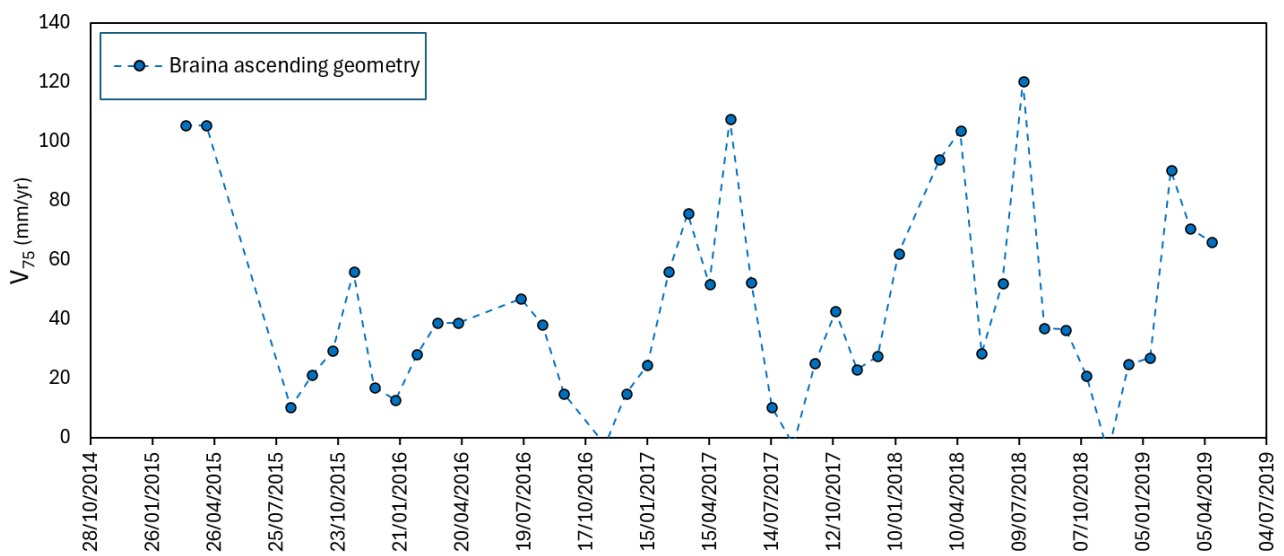
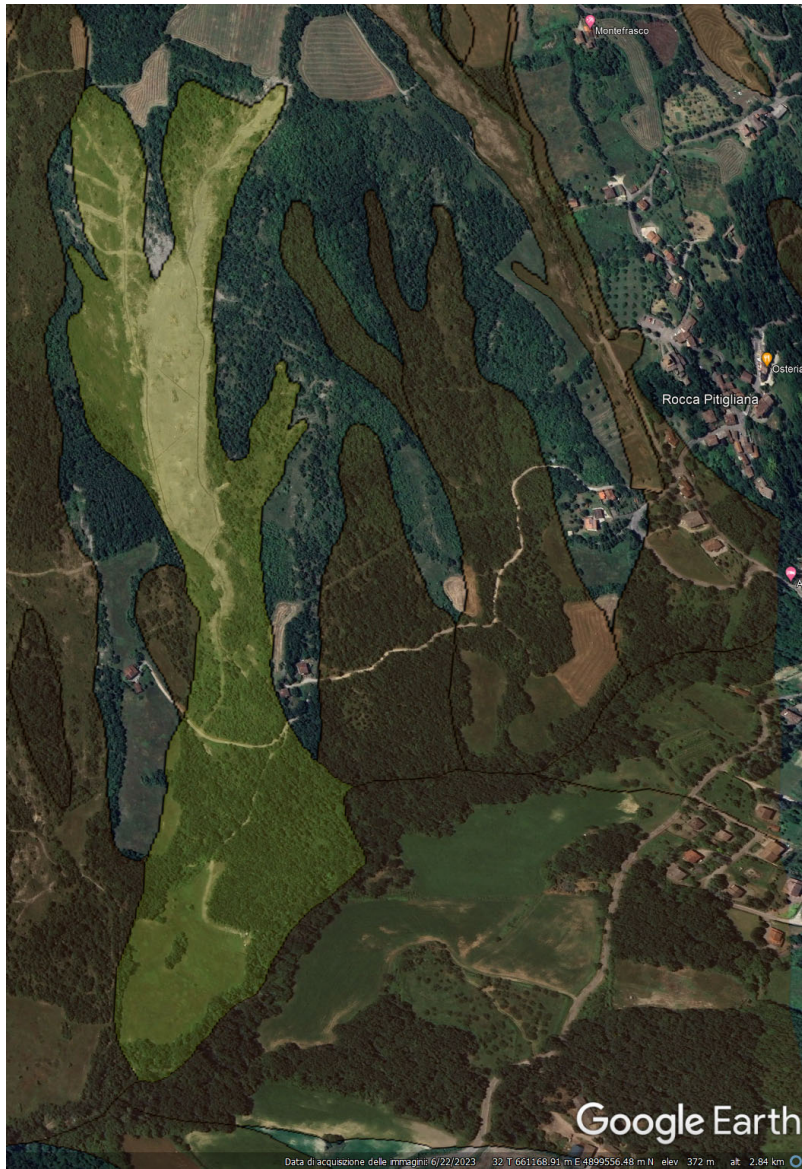
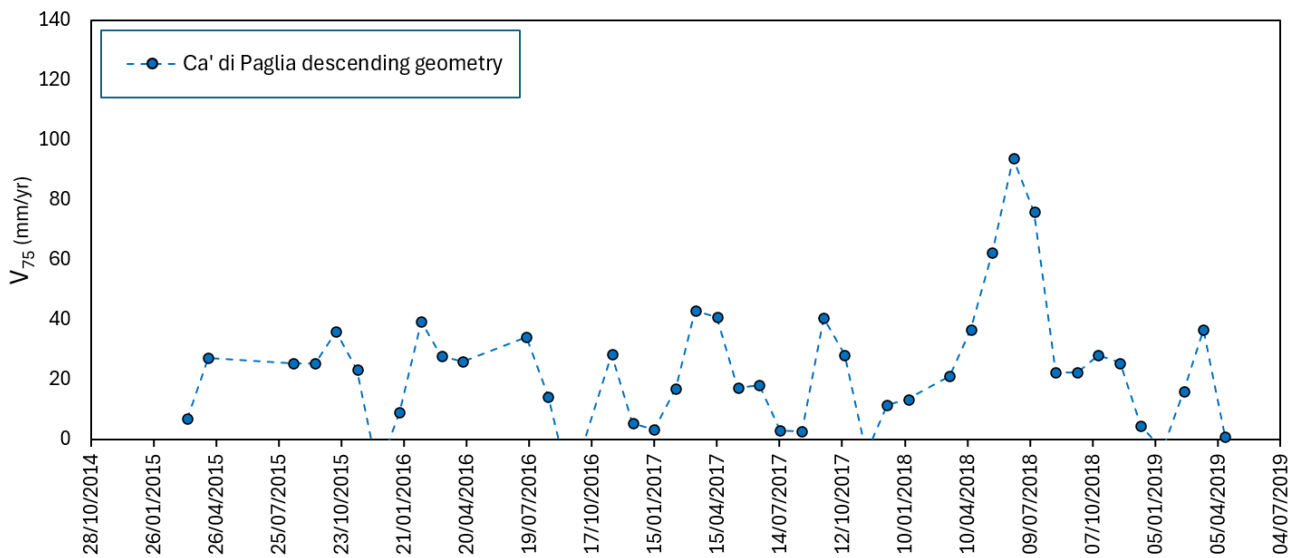


## Supplementary materials

Selected examples of mapped landslides and time series of displacement rates ( $V_{75}$ ) as measured by monthly interferometric stacks.

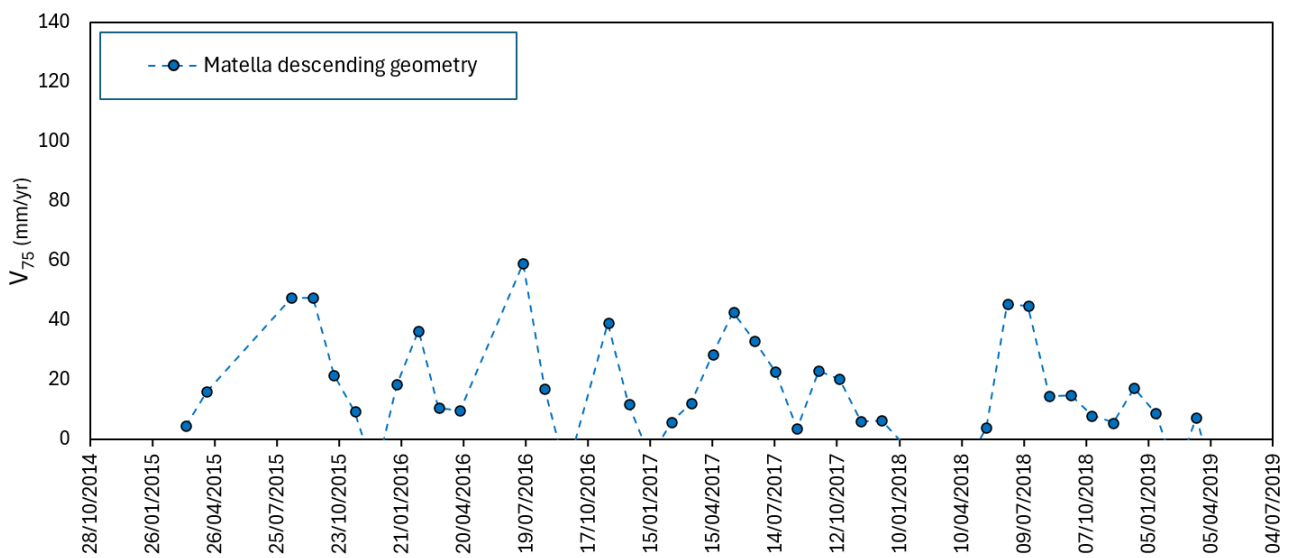


Supplementary Figure 1. Aerial photograph (upper) from Google Earth (2024) and V<sub>75</sub> time series (lower) of the deformation signal 'Braina'. The aerial photograph shows all the landslide deposits mapped in the regional landslide inventory in red while the 'Braina' landslide is represented in yellow. V<sub>75</sub> is the 75<sup>th</sup> percentile of LOS velocity derived from monthly stacks in the specified geometry of acquisition.

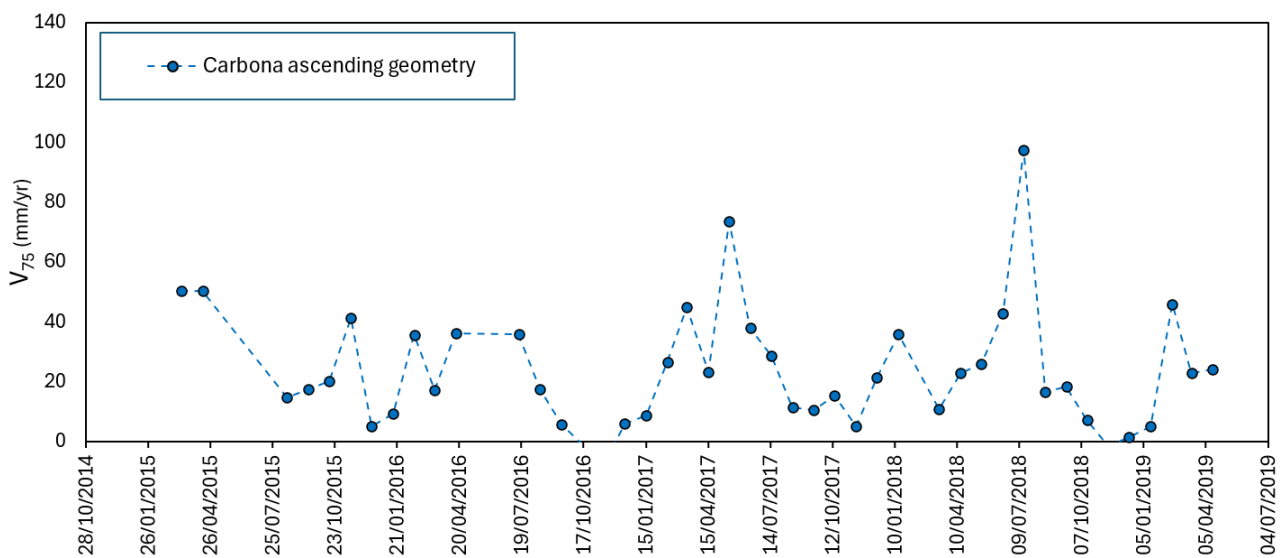


Supplementary Figure 2. Aerial photograph (upper) from Google Earth (2024) and V<sub>75</sub> time series (lower) of the deformation signal 'Ca' di Paglia'. The aerial photograph shows all the landslide deposits mapped in the regional landslide inventory in red while the 'Ca' di Paglia' landslide is represented in yellow. V<sub>75</sub> is the 75<sup>th</sup> percentile of LOS velocity derived from monthly stacks in the specified geometry of acquisition.

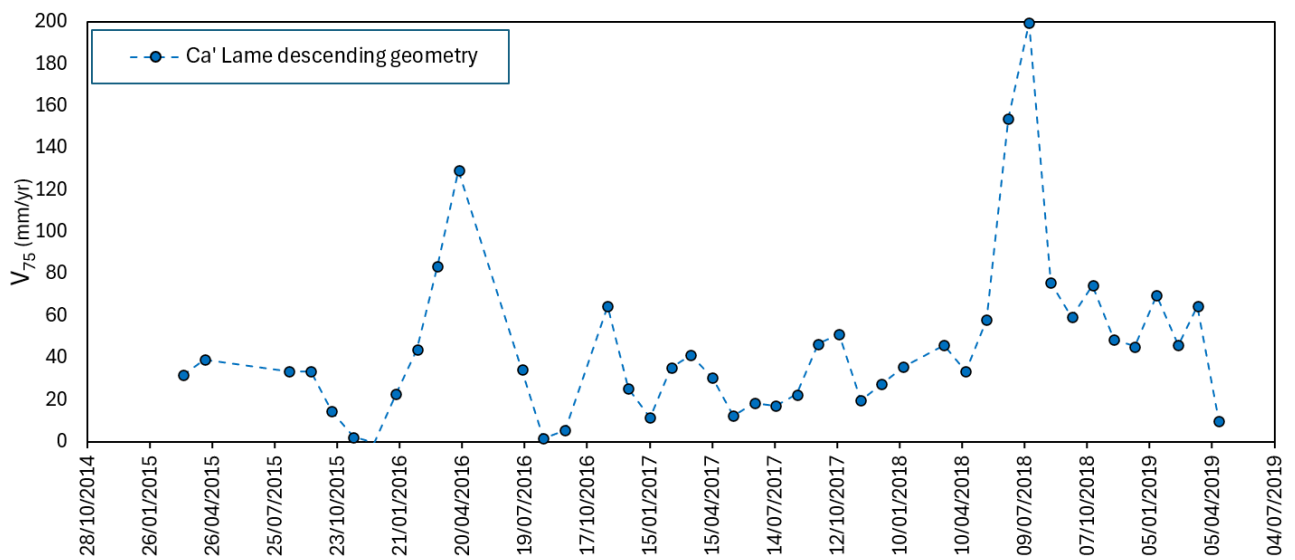




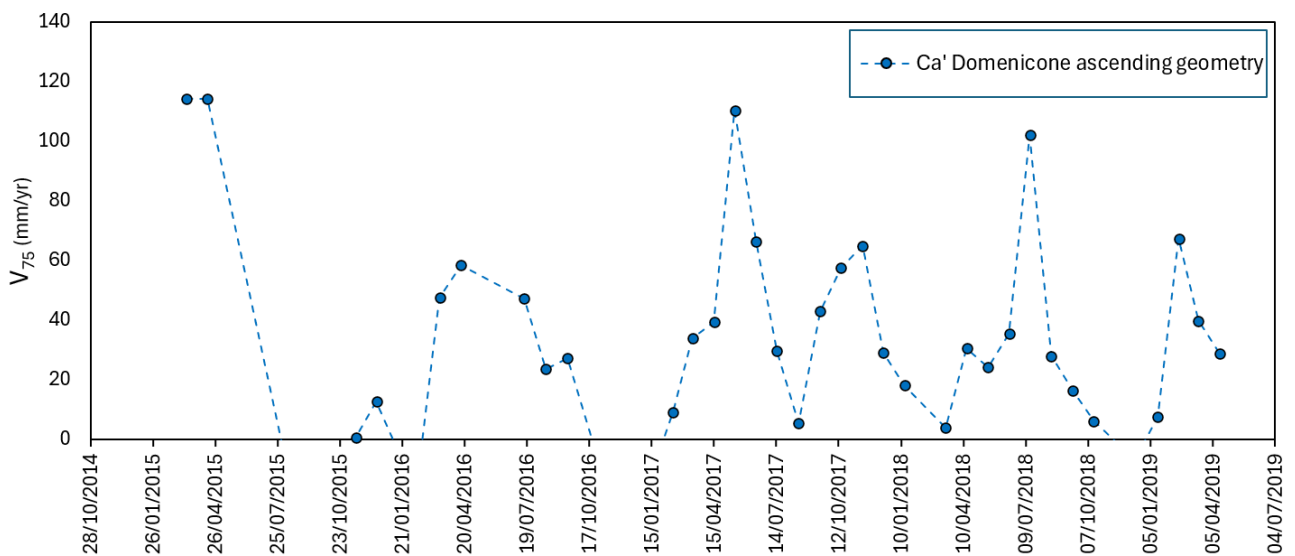
Supplementary Figure 4. Aerial photograph (upper) from Google Earth (2024) and  $V_{75}$  time series (lower) of the deformation signal 'Matella'. The aerial photograph shows all the landslide deposits mapped in the regional landslide inventory in red while the 'Matella' landslide is represented in yellow.  $V_{75}$  is the 75<sup>th</sup> percentile of LOS velocity derived from monthly stacks in the specified geometry of acquisition.



Supplementary Figure 5. Aerial photograph (upper) from Google Earth (2024) and V<sub>75</sub> time series (lower) of the deformation signal 'Carbona'. The aerial photograph shows all the landslide deposits mapped in the regional landslide inventory in red while the 'Carbona' landslide is represented in yellow. V<sub>75</sub> is the 75<sup>th</sup> percentile of LOS velocity derived from monthly stacks in the specified geometry of acquisition.

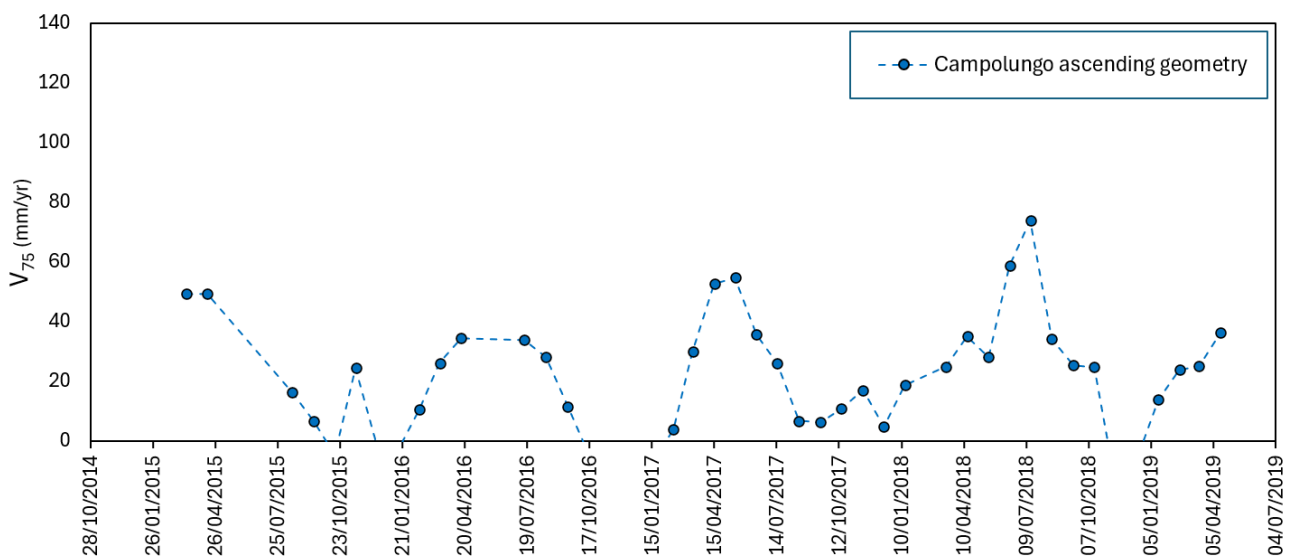


Supplementary Figure 6. Aerial photograph (upper) from Google Earth (2024) and  $V_{75}$  time series (lower) of the deformation signal 'Ca' Lama'. The aerial photograph shows all the landslide deposits mapped in the regional landslide inventory in red while the 'Ca' Lama' landslide is represented in yellow.  $V_{75}$  is the 75<sup>th</sup> percentile of LOS velocity derived from monthly stacks in the specified geometry of acquisition.

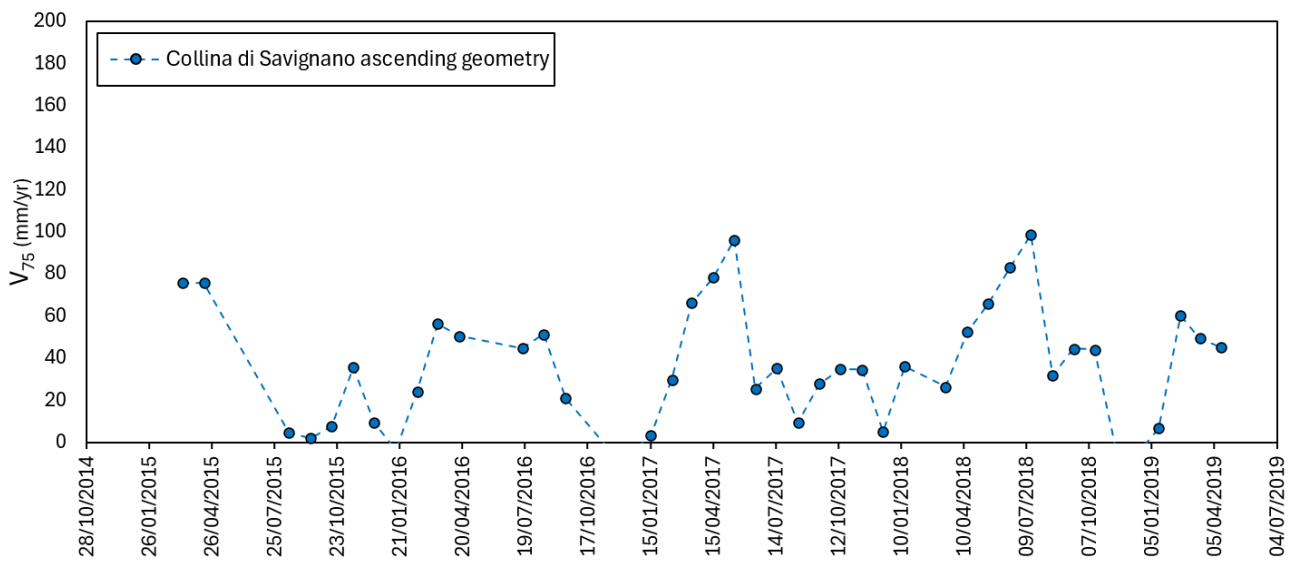


Supplementary Figure 7. Aerial photograph (upper) from Google Earth (2024) and  $V_{75}$  time series (lower) of the deformation signal 'Ca' Domenicone'. The aerial photograph shows all the landslide deposits mapped in the regional landslide inventory in red while the 'Ca' Domenicone' landslide is represented in yellow.  $V_{75}$  is the 75<sup>th</sup> percentile of LOS velocity derived from monthly stacks in the specified geometry of acquisition.

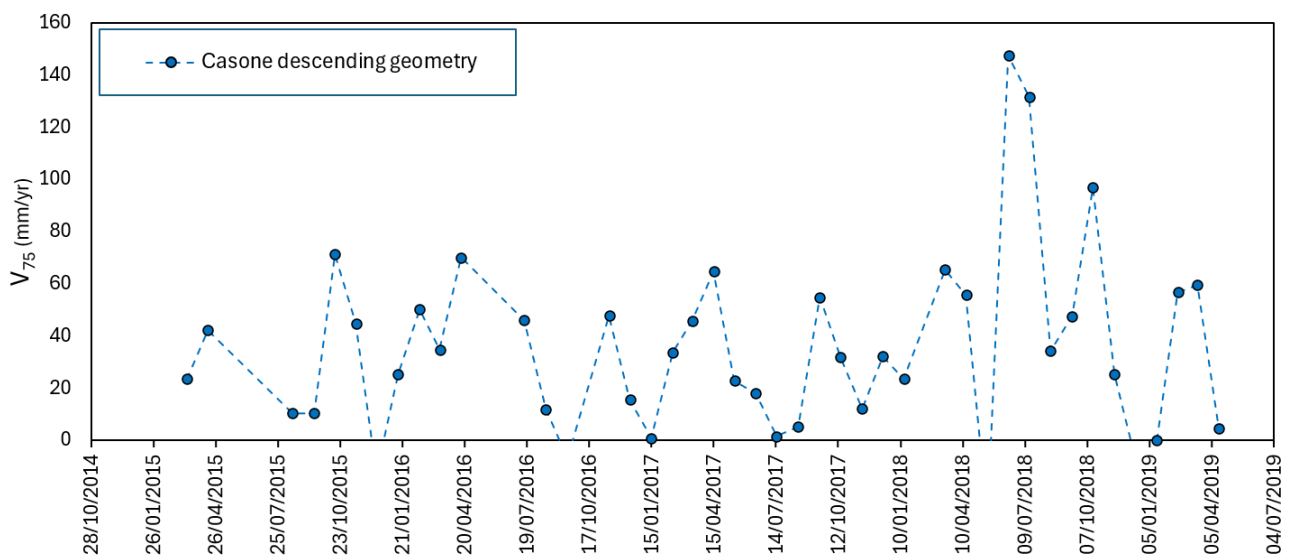




Supplementary Figure 8. Aerial photograph (upper) from Google Earth (2024) and  $V_{75}$  time series (lower) of the deformation signal 'Campolungo'. The aerial photograph shows all the landslide deposits mapped in the regional landslide inventory in red while the 'Campolungo' landslide is represented in yellow.  $V_{75}$  is the 75<sup>th</sup> percentile of LOS velocity derived from monthly stacks in the specified geometry of acquisition.



Supplementary Figure 9. Aerial photograph (upper) from Google Earth (2024) and  $V_{75}$  time series (lower) of the deformation signal 'Collina di Savignano'. The aerial photograph shows all the landslide deposits mapped in the regional landslide inventory in red while the 'Collina di Savignano' landslide is represented in yellow.  $V_{75}$  is the 75<sup>th</sup> percentile of LOS velocity derived from monthly stacks in the specified geometry of acquisition.



Supplementary Figure 10. Aerial photograph (upper) from Google Earth (2024) and  $V_{75}$  time series (lower) of the deformation signal 'Casone'. The aerial photograph shows all the landslide deposits mapped in the regional landslide inventory in red while the 'Casone' landslide is represented in yellow.  $V_{75}$  is the 75<sup>th</sup> percentile of LOS velocity derived from monthly stacks in the specified geometry of acquisition.

## References

Google Earth (2024), version 7.3.6, images 24/06/2023. Available from:  
<https://earth.google.com/intl/earth/download/>