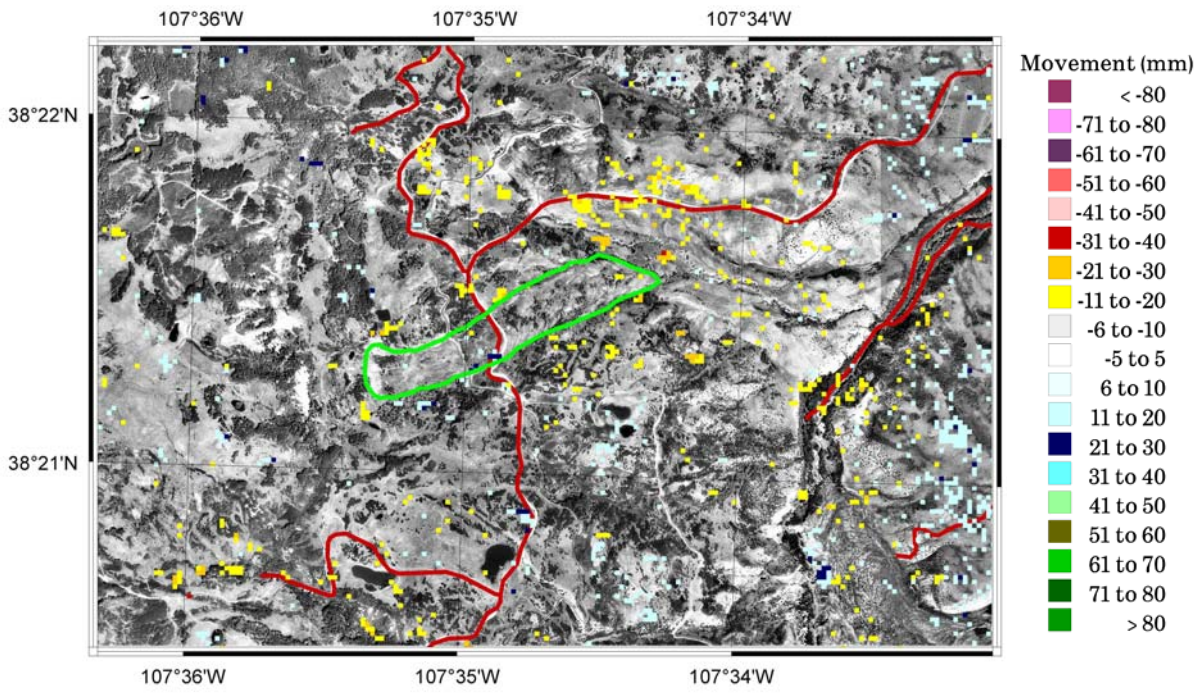

Figure 40. Graph. ERS InSAR derived height change for July 3 to August 7, 1997.

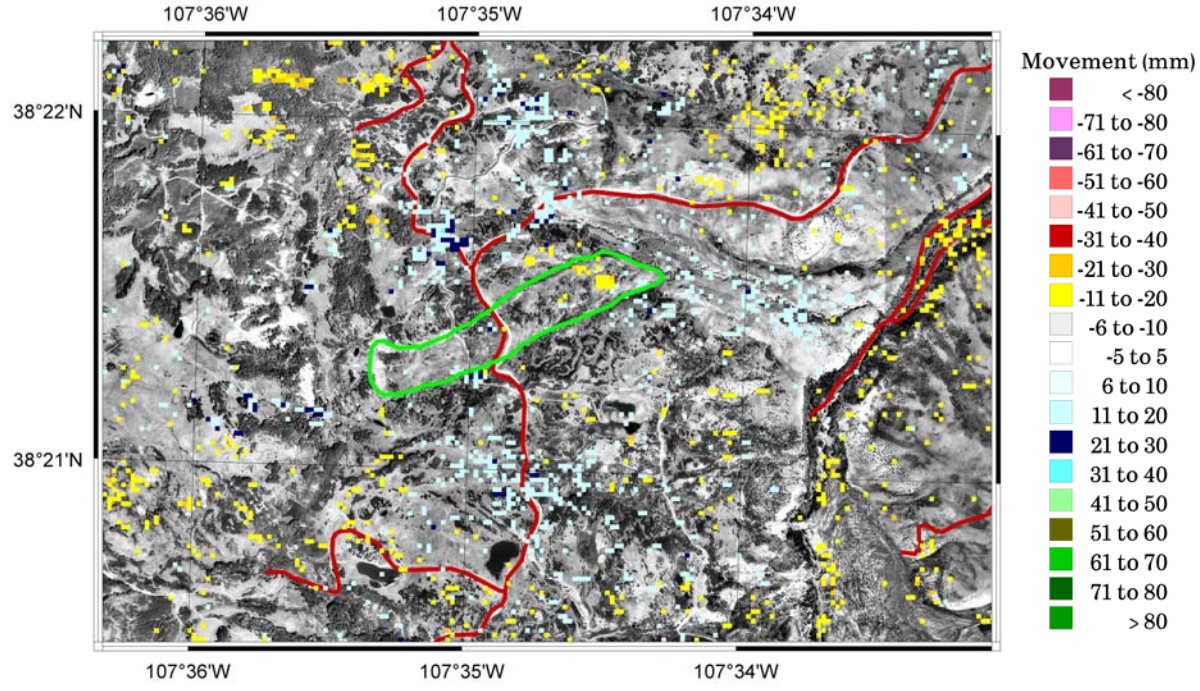

Figure 41. Graph. ERS InSAR derived height change for August 7 to September 11, 1997.

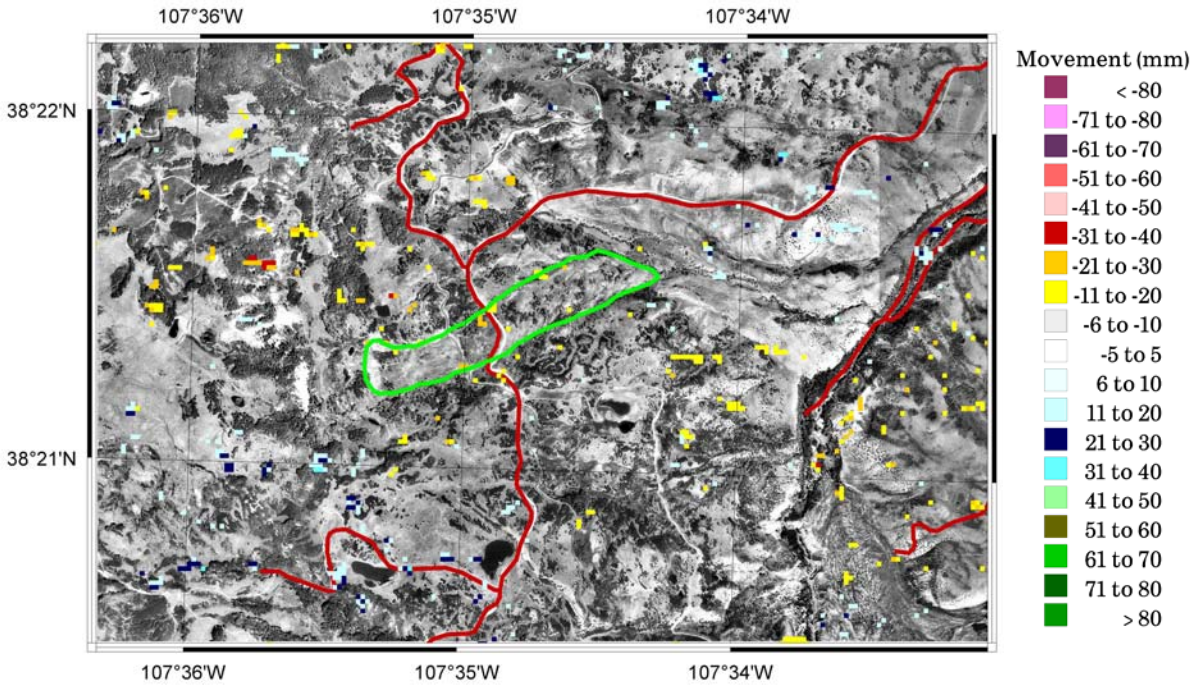

Figure 42. Graph. ERS InSAR derived height change for July 27 to October 5, 1997.

In contrast to the poor coherence of the ERS interferograms, the RADARSAT image pairs at least have reasonable coherence with mean values in the range of 28% to 45%. The quality of the InSAR estimates for movement will depend on the local coherence in the area of interest. For the eleven interferograms considered during the timeframe from late summer 2003 to late spring 2005, well-developed movement signatures are seen along the slide area during the autumn of both 2003 and 2004, as shown in Figure 43 and Figure 46. Specifically, movement of 10 to 20 mm (0.4 - 0.8 inch) near the top of the slide was observed over the 24-day cycles from September 3 to 27, 2003 and September 21 to October 15, 2004. It should be noted that these two interferograms have the highest coherence of the eleven pairs considered, so that the resulting movement estimates are influenced the least from phase noise. Further, given that the coherence is consistently higher at the top of the slope, as seen in Figure 49, the movement signature in this region is particularly visible. Slight movement may be evident in some of the other interferograms, such as June to July and July to September 2004, as shown in Figure 44 and Figure 45, although in these cases the lower coherence results in a less consistent movement signature.