

## ***Interactive comment on “InSAR Technique Applied to the Monitoring of the Qinghai-Tibet Railway” by Qingyun Zhang et al.***

### **Anonymous Referee #1**

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General comments The authors used InSAR time series to investigate the deformation evolution of the Qinghai-Tibet Railway during 2003-2010. The topic will be of general interest to many.

Specific comments 1. The technique used in the data processing is the Full Rank Matrix (FRAM) Small Baseline Subset InSAR (SBAS) time-series analysis, but the method is not clear described in the main text. More details of the technique should be added in Section 3.2. 2. The deformation result from the study is not validated. And what is the precision or accuracy of the derived deformation?

Technical corrections 1. The reference style in P2/L1 and the following texts should be rewritten under the style of NHESD, for example, “Xiaolei Lv et al., (2003)” should be changed to “Lv et al., (2003)”. 2. P3/L7, global positioning systems (GPS) -> Global

C1

Positioning Systems (GPS) 3. P3/L13-21, Need some references. 4. P3/L29-P4/9, The tense of these paragraphs should be the past tense. 5. In Figure 4, interferograms -> interferogram 6. The Figures 5, 6 and 7 can be combined as one figure.

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Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2018-287>, 2018.