

Interactive comment on “Emergent stationarity in Yellow River sediment transport and the underlying shift of dominance: from streamflow to vegetation” by Sheng Ye et al.

Anonymous Referee #1

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The authors collected and analyzed hydrologic data to develop the relationships between sediment concentration and discharge, vegetation index and discharge and sediment concentration in the Yellow River Basin using Wavelet Coherence method. Eventually they drew some conclusions on these relationships. Both data and analysis well support these conclusions. The reviewer recommends to accept the paper with some minor revisions as follows, 1. Double check the whole manuscript and correct some typos such as: Line 108 (“) is expected in Eqn 1), Line 121, “the” strongest. . . etc. 2. Lines 118 – 129, use formula instead of description to explain the physical meaning of these parameters. 3. Even though NVDI has been described in the cited literature, it will be more convenient for readers understand the effect of vegetation if

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the authors can briefly explain the definition. 4. More discussion on the determination of threshold value of discharge is expected. 5. How will vegetation type, climate, and other watershed characteristics affect the conclusion? A short discussion will be helpful.

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