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Bed load transport and incipient motion below a large gravel bed river bend

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**Highlights**

- Measurements of flow, bed sediment and bed load below a large gravel bed river bend
- Sediment transport processes contributing to stability of meanders are identified
- Equal threshold of movement of sediment is achieved across the bend point-bar
- Bed surface armouring and bed structuring might increase stability of the pool
- Processes sustaining stability in straight reaches operate also in meander bends

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