

## ***Interactive comment on “Technical Note: Medium-term morphodynamics in an unprotected sandy beach of the Adriatic Sea” by M. Postacchini et al.***

### **Anonymous Referee #2**

Received and published: 18 September 2015

The technical note touches an interesting topic such as the morphodynamic response at medium term scale. It is however too descriptive and the analysis of driving terms and scales is not completed. It is recommended to carry out a more in depth analysis and to derive some more quantitative conclusions, with applicability to other similar environments.

The selection of the site and the bathymetric surveying down to a depth of 6m should be further discussed, showing how that affects the depth of closure in the studied profiles.

When comparing with other cases such as, for instance, the bar migration with the Northern Dutch coast due attention should be paid to the effect of the astronomical

C717

tide which is very different from the studied Adriatic Sea.

The selected dimension less parameter for the bar characterization should also be discussed and compared to other alternatives from the state of the art since spurious correlation results may appear as a result of the selection of parameters.

When mentioning in the discussion session that the bar dynamics may be related to a break point related mechanism or infra-gravity waves that should be analysed more in depth and not presented only in the discussion session.

When coupling the beach part dynamics with a wave forcing the authors should also show why the wind and mean water level / circulation in that area do not play a significant role.

---

Interactive comment on Ocean Sci. Discuss., 12, 1711, 2015.

C718