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Interactive comment on “Modelling origin and transport fate of waste materials on the south-eastern Adriatic coast (Croatia)” by M. Tudor and I. Janeković

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Answers to Referee #1

We are grateful to reviewer for his/her time and constructive comments pointing parts that were unclear and necessary to modify. Possibly it was not clear from the text but contributions from Buna-Bojana and Montenegro were not neglected. The drifters were released from an area that is in front of Montenegro coast and Buna-Bojana river delta capturing possible source of the river system.

Our introduction includes more articles that are to our opinion relevant for the Adriatic Sea, however, several recent events have triggered substantial amount of published

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articles, so only websites that list the articles are mentioned. More specific comments:

Ad 1. we did not limit our research to Albanian coastline only. The area where the drifters were released is in south-east Adriatic region, as well in front of the Montenegro coastline.

Ad 2. references inserted

Ad 3. fixed, two.

Ad 4. It is not common to cite TV news and daily papers in a scientific article.

Ad 5. text improved.

Ad 6. fixed.

Ad 7. added reference.

Ad 8. done

Ad 9. fixed

Ad 10. corrected text

Ad 11. modified to be more clear

Ad 12. there were no rain gauge measurements available from Albania through international exchange. At the time only airport in Tirana was sending data regularly, and these did not include amount of precipitation.

Ad 13. because of no data for rivers in Albania.

Ad 14. large AOT is connected to high precipitation events (also cleared in article)

Ad 15. moved text to more appropriate position

Ad 16. and 17. explained abbreviations

Ad 18. explained

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Ad 19. added to text

Ad 20. CRR and PC were both used to identify high precipitation events (along with rain gauges and various TRMM estimates for precipitation)

Ad 21. satellite estimates are used to identify if it rained above Albania too

Ad 22. no, this is the reason that event is omitted from further study

Ad 23. intensive rainfall events in southern Adriatic are often related to dust from Sahara and rain gauges often contain sand.

Ad 24. CRR and PC were both used to identify high precipitation events

Ad 25. yes

Ad 26. yes

Ad 27. inserted

Ad 28. explained

Ad 29. description inserted

Ad 30. the event was reported in the media (fixed)

Ad 31. EAC is in north-west direction, it arrives from south-east, the initial points are over south-east Adriatic region

Ad 32. fixed

Ad 33. it is not neglected

Ad 34. wind field is an important driver for surface currents and we decided not to neglect this.

Ad 35. revised

Ad 36. figure is modified

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Ad 37. fig 2 is modified

Ad 38. 39 40. 42 and 43 we decided to keep them to explain the synoptic setting of the event and climatology too

Ad 41. wind direction explained

Ad 44. SST is warmer in EAC.

Technical corrections are fixed along with the typos we identified.

Thank you again and best regards!

Interactive comment on Ocean Sci. Discuss., 11, 2939, 2014.

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11, C1430–C1433, 2015

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