

## Papers in ISI magazines 2011-2017 (Updated, July 2017)

### Papers In press

1. Cotroneo, Y.; G. Aulicino; S. Ruiz; A. Pascual; G. Budillon; G. Fusco; J. Tintorè. 2016. Glider and satellite high resolution monitoring of a mesoscale eddy in the Algerian basin: effects on the mixed layer depth and biochemistry. *Journal of Marine Systems*, under review.
2. Morales-Márquez, V., Orfila, A., Gómez-Pujol, L., Conti, D., Álvarez-Ellacuría, A., Osorio, A.F., Marcos, M., Galán, A., 2017. Storm group impact on beach erosion and recovery at a microtidal semiexposed beach. *Marine Geology*, under review.
3. Anechitei-Deacu, V., Timar-Gabor, A., Constantin, D., Trandafir-Antohi, O., del Valle, L., Fornós, J.J., Gómez-Pujol, L., Wintie, A.G. 2017. Assessing the maximum limit of SAR-OSL dating: application to aeolianites from Eivissa (South-Western Mediterranean) using quartz of different grain sizes. *PLOSone*, under review.
4. Simarro, G., Ribas, F., Álvarez, A., Guillén, J., Chic, O., and Orfila, A, 2017. ULISES: An Open Source Code for Extrinsic Calibrations and Planview Generations in Coastal Video Monitoring Systems. *Journal of Coastal Research* (in press).
5. Chioua, J., C. Dastis, C. J. González, E. Reyes, R. Mañanes, M. I. Ruiz, E. Álvarez, Yanguas, J. Romero, O. Álvarez and M. Bruno "Water exchange between Algeciras Bay and the Strait of Gibraltar: A study based on HF coastal radar." *Estuarine, Coastal and Shelf Science*.

### 2017

6. Oguz T., Mourre B. and J. Tintoré (2017). Modulation of frontogenetic plankton production along a meandering jet by zonal wind forcing: an application to the Alboran Sea. *Journal of Geophysical Research - Oceans*, Doi: 10.1002/2017JC012866.2017
7. Walter Ingram Jr. G., Alvarez-Berastegui, D., Reglero, P., Balbín, R., García, A., Alemany, F. Incorporation of habitat information in the development of indices of larval bluefin tuna (*Thunnus thynnus*) in the Western Mediterranean Sea (2001– 2005 and 2012–2013), *Deep Sea Research Part II: Topical Studies in Oceanography*, Available online 27 March 2017, ISSN 0967- 0645, <https://doi.org/10.1016/j.dsr2.2017.03.012>.

8. Muhling, B. A., Lamkin, J. T., Alemany, F., García, A., Farley, J., Ingram, G. W., & Carrion, R. L. Reproduction and larval biology in tunas, and the importance of restricted area spawning grounds. *Reviews in Fish Biology and Fisheries*, 1-36.
9. Reglero, P., Santos, M., Balbín, R., Laíz-Carrión, R., Alvarez-Berastegui, D., Ciannelli, L., Jiménez, E., Alemany, F. Environmental and biological characteristics of Atlantic bluefin tuna and albacore spawning habitats based on their egg distributions, *Deep Sea Research Part II: Topical Studies in Oceanography*, Available online 25 March 2017, ISSN 0967-0645, <https://doi.org/10.1016/j.dsr2.2017.03.013>.
10. Lorscheid, T., Stocchi, P., Casella, E., Gómez-Pujol, L., Vacchi, M., Mann, T., Rovere, A., 2017. Paleo sea-level changes and relative sea-level indicators: Precise measurements, indicative meaning and glacial isostatic adjustment perspectives from Mallorca (Western Mediterranean). *Palaeogeography, Palaeoclimatology, Palaeoecology*, 473: 94-107.
11. Pomar, F., Gómez-Pujol, L., Fornós, J.J., Del Valle, L., Nogales, B. 2017. Limestone biopitting in coastal settings: A spatial, morphometric, SEM and molecular microbiology sequencing study in the Malorca rocky coast (Balearic Islands, Western Mediterranean). *Geomorphology*, 276: 104-115. DOI: 10.1016/j.geomorph.2016.10.014
12. Oguz T. (2017). Impacts of a buoyant strait outflow on the plankton production characteristics of an adjacent semi-enclosed basin: A case study of the Marmara Sea. *Journal of Marine Systems*, 173, 90-100, doi:10.1016/j.jmarsys.2017.05.002
13. Sanchez-Roman A., S. Ruiz, A. Pascual, B. Mourre and S. Guinehut (2017). On the mesoscale monitoring capability of Argo floats in the Mediterranean Sea. *Ocean Science*, 13, 223-234, doi:10.5194/os-13-223-2017
14. Licer M., B. Mourre, C. Troupin, A. Krietemeyer, A. Jansá and J. Tintore (2017). Numerical study of Balearic meteotsunami generation and propagation under synthetic gravity wave forcing. *Ocean Modelling*, 111, 38-45, doi:/10.1016/j.ocemod.2017.02.001
15. Pascual A., S. Ruiz, A. Olita, C. Troupin, M. Claret, B. Casas, B. Mourre, P.-M. Poulain, A. Tovar-Sanchez, A. Capet, E. Mason, J. Allen, A. Mahadevan and J. Tintoré (2017). A Multiplatform Experiment to Unravel Meso- and Submesoscale Processes in an Intense Front (AlborEx). *Frontiers in Marine Science*, 4, 39, doi:10.3389/fmars.2017.00039

## 2016

1. Troupin, C., Beltran, J.P., Heslop, E., Torner, M., Garau, B., Allen, J., Ruiz, S., Tintoré, J. 2016. A toolbox for glider data processing and management. *Methods in Oceanography*, Vol. 13-14, Pag. 13-23. doi:10.1016/j.mio.2016.01.001

2. Rovere, A., Raymo, M.E., Vacchi, M., Lorscheid, T., Stocchi, Gómez-Pujol, L., Harris, D.L., Casella, E., O'Leary, M.J., Hearty, P.J., 2016. The analysis of Last Interglacial (MIS 5e) relative sea-level indicators: Reconstructing sea-level in a warmer world. *Earth-Science Reviews* 159: 404-427. DOI: 10.1016/j.earscirev.2016.06.006.
3. Alvarez-Berastegui D., Hidalgo J.M., Tugores M.P., Aparicio A., Ciannelli L., Reglero P., Balbín R., Juza M., Mourre B., Pascual A., Lopez-Jurado J.L., García A., Rodriguez JM, Tintoré J., Alemany F. 2016. Pelagic seascape ecology for operational fisheries oceanography: modeling and predicting spawning distribution of Atlantic bluefin tuna in western Mediterranean. *ICES Journal of Marine Science* 73, 1851-1862. doi: 10.1093/icesjms/fsw041.
4. Lana, A., Marmain, J. Marmain, V. Fernández, J. Tintoré, and A. Orfila. Wind influence on surface current variability in the Ibiza Channel from HF Radar. *Ocean Dynamics* (2016) 66: 483. doi:10.1007/s10236-016-0929-z
5. Del Valle, L., Gómez-Pujol, L., Fornós, J.J., Timar-Gabor, A., Anechitei-Deacu, A., Pomar, F. 2016. Middle to Late Pleistocene dunefields in rocky coast setting at Cala Xuclar (Eivissa, Western Mediterranean): Recognition, architecture and luminescence chronology. *Quaternary International*, 407: 3-13. DOI: 10.1016/j.quaint.10.6.01.050.
6. Juza, M., Mourre, B., Renault, L., Gómara, S., Sebastián, K., Lora, S., Beltran, J.P., Frontera, B., Garau, B., Troupin, C., Torner, M., Heslop, E., Casas, B., Escudier, R., Vizoso, G., Tintoré, J. 2016. SOCIB operational ocean forecasting system and multiplatform validation in the Western Mediterranean Sea. *Jounral of Operational Oceanography* 9, 155-166. doi :10.1080/1755876X.2015.1117764
7. Rovere, A., Raymo, M.E., Vacchi, M., Lorscheid, T., Stocchi, Gómez-Pujol, L., Harris, D.L., Casella, E., O'Leary, M.J., Hearty, P.J., The analysis of Last Interglacial (MIS 5e) relative sea-level indicators: Reconstructing sea-level in a warmer world. *Earth-Science Reviews* 159: 404-427. DOI: 10.1016/j.earscirev.2016.06.006.
8. Juza, M., R. Escudier, A. Pascual, M.-I. Pujol, C. Troupin, B. Mourre, and J. Tintoré, 2016: « Improvement of reprocessed altimetry absolute dynamic topography: the Western Alboran Gyre variability ». *Advances in Space Research*, 58, 277-288, <http://dx.doi.org/10.1016/j.asr.2016.05.026>
9. Escudier, R., B. Mourre, M. Juza, and J. Tintoré, 2016: « Sub-surface circulation and mesoscale variability in the Algerian sub-basin from altimeter-derived eddy trajectories ». *Journal of Geophysical Research*, 121, 6310-6322, doi:10.1002/2016JC011760
10. Capó E., A.Orfila, Sayol J.-M., Conti D., Juza, M., Ruiz S., Sotillo M.G., García-Ladona E., Simarro G., Mourre B. and Tintoré J. (2016). Assessment of operational models in the Balearic Sea during the MEDESS experiment. *Deep Sea Research II*, 133, 118-131,

doi:10.1016/j.dsr2.2016.03.009

11. Juza M., Escudier R., Pascual A., Pujol M.-I., Taburet G., Troupin C., Mourre B. and J. Tintoré (2016). Impacts of reprocessed altimetry on the surface circulation and variability of the Western Alboran Gyre. *Advances in Space Research*, 58(3), 277-288, doi:10.1016/j.asr.2016.05.026
12. Escudier R., L. Renault, A. Pascual, P. Brasseur, D. Chelton, and J. Beuvier (2016). Eddy properties in the Western Mediterranean Sea from satellite altimetry and a numerical simulation. *J. Geophys. Res. Oceans*, 121, 3990–4006, doi:10.1002/2015JC011371.
13. Oguz T., Mourre B. and J. Tintoré (2016). Upstream control of the frontal jet regulating plankton production in the Alboran Sea (Western Mediterranean). *Journal of Geophysical Research – Oceans*, 121(9), 7159-7175, doi : 10.1002/2016JC011667
14. Von Schuckmann K. et al. (2016). The Copernicus Marine Environment Monitoring Service Ocean State Report. *Journal of Operational Oceanography*, in press, doi:10.1080/1755876X.2016.1273446
15. Sotillo, M. G., Garcia-Ladona, E., Orfila, A., Rodríguez-Rubio, P., Maraver, J. C., Conti, D., Padorno, E., Jiménez, J. A., Capó, E., Pérez, F., Sayol, J. M., de los Santos, F. J., Amo, A., Rietz, A., Troupin, C., Tintore, J., and Álvarez-Fanjul, E.: The MEDESS-GIB database: tracking the Atlantic water inflow, *Earth Syst. Sci. Data*, 8, 141-149, doi:10.5194/essd-8-141-2016, 2016.
16. Quetglas, A., Rueda, L., Alvarez-Berastegui, D., Guijarro, B., Massutí, E. Contrasting Responses to Harvesting and Environmental Drivers of Fast and Slow Life History Species (2016) PLOS ONE, <http://dx.doi.org/10.1371/journal.pone.0148770>
17. Enríquez, A., Marcos, M., Álvarez-Ellacuría, Orfila, A., Gomis,, D. (2016). Changes in beach shoreline due to sea level rise and waves under climate change scenarios: application to the Balearic Islands (Western Mediterranean). *Natural Hazards and Earth System Science*. doi:10.5194/nhess-2016-361, 2016

## 2015

1. Bellomo, L., Cosoli, S., Falco, P., Gerin, R., Iermano, I., Kalampokis, A., Kokkini, Z., Lana, A., Magaldi, M. G., Mamoutos, G., Mantovani, C., Marmain, J., Potiris, E., Sayol, J.M., Barbin, Y., Berta, M., Borghini, M., Corgnati, L., Dagneaux, Q., Gaggelli, J., Griffa, A., Guterman, P., Mazzoldi, A., Molcard, A., Orfila, A., Poulain, P.-M., Quentin, C., Tintoré, J., Uttieri, M., Vetrano, A., Zambianchi, E., Zervakis, V. , 2015: Toward an integrated HF radar network in the Mediterranean Sea to improve search and rescue and oil spill response: The TOSCA project experience. *Journal of Operational Oceanography*, vol.8 (2) pp. 1-13. Doi:

10.1080/1755876X.2015.1087184. November 2015

2. Gilbert A, Alexander K, Sarda R, Brazinskaite R, Fischer C, Gee K, Los H, Jessopp M, Kershaw P, O'Mahony C, March D, Pihlajamäki M, Rees S, Varjopuro R. 2015. Marine spatial planning and Good Environmental Status: a perspective on spatial and temporal dimensions. *Ecology and Society*, v. 20 (1), art.64.
3. Juza, M., B. Mourre, J.-M. Lellouche, M. Tonani, and J. Tintoré. 2015. From basin to sub-basin scale assessment and intercomparison of numerical simulations in the Western Mediterranean Sea. *Journal of Marine Systems*, 149, 36-49, doi:10.1016/j.jmarsys.2015.04.010.
4. Kourafalou V.H., P. De Mey, M. Le Hénaff, G. Charria, C.A. Edwards, R. He, M. Herzfeld, A. Pasqual, E. Stanev, J. Tintoré, N. Usui, A. van der Westhuysen, J. Wilkin and X. Zhu. 2015. Coastal Ocean Forecasting: system integration and evaluation. *Journal of Operational Oceanography*, 8:sup1, s127-s146 doi:10.1080/1755876X.2015.1022336
5. Lana A., V. Fernández, J. Tintoré. 2015. SOCIB Continuous Observations Of Ibiza Channel Using HF Radar. *Sea Technology*. March, Vol. 56, No. 3, pp. 31-34.
6. Peña, M., A. Carbonell, A. Tor, D. Alvarez-Berastegui, R. Balbín, A. doSantos, F. Alemany, 2015. Nonlinear ecological processes driving the distribution of marine decapod larvae. *Deep Sea Research Part I Oceanographic Research Papers* (97):92-106. DOI: 10.1016/j.dsr.2014.11.017
7. Oguz, T., D. Macías, J. Tintoré. 2015. Ageostrophic Frontal Processes Controlling Phytoplankton Production in the Catalano-Balearic Sea (Western Mediterranean). *PLoS ONE* 10(6): e0129045. doi:10.1371/journal.pone.0129045.
8. Oke, P., Larnicol, G., E. Jones, V. Kourafalou, A. Sperrevik, F. Carse, C. Tanajura, B. Mourre, M. Tonani, G. Brassington, M. Le Hénaff, G. Halliwell, R. Atlas, A. Moore, C. Edwards, M. Martin, A. Sellar, A. Alvarez, P. De Mey and M. Iskandarani. 2015. Assessing the impact of observations on ocean forecasts and reanalyzes: Part 2, regional applications. *Journal of Operational Oceanography* 8:sup1, s63-s79. doi:10.1080/1755876X.2015.1022080.
9. Pascual, A. Lana, C. Troupin, S. Ruiz, Y Faugère, R. Escudier and J. Tintoré. 2015. Assessing SARAL/Altika near-real time data in the coastal zone: comparisons with HF Radar and Jason-2 observations. *Marine Geodesy* 38 (1) p. 260-276 Doi.: 10.1080/01490419.2015.1019656.
10. Pascual, A., S. Ruiz, B. Buongiorno Nardelli, S. Guinehut, D. Iudicone, and J. Tintoré. 2015. Net primary production in the Gulf Stream sustained by quasi-geostrophic vertical exchanges, *Geophys. Res. Lett.*, 42, 441-449. doi:10.1002/2014GL062569. 2015.

11. Troupin C., A Pascual, G. Valladeau, A. Lana, Em Heslop, S. Ruiz, M. Torner, N. Picot and J. Tintoré. 2015. Illustration of the emerging capabilities of SARAL/AltiKa in the coastal zone using a multi-platform approach. *Advances in Space Research.* 55, 51-59, doi:10.1016/j.asr.2014.09.011.
12. Zaragoza, A Quetglas, M Hidalgo, D Álvarez-Berastegui, R Balbín, F Alemany. 2015. Effects of contrasting oceanographic conditions on the spatiotemporal distribution of Mediterranean cephalopod paralarvae. *Hydrobiologia* 749: 1-14. 2015
13. Capo, E., J.M. Sayol, D. Conti, M. Juza, S. Ruiz, M.G. Sotillo, E. García-Ladona, G. Simarro, B. Mourre, J. Tintoré, and A. Orfila, 2015: « Assessment of operational models in the Balearic Sea during the MEDESS experiment ». *Deep Sea Research Part II*, doi:10.1016/j.dsr2.2016.03.009.
14. Puerta P, Hunsicker ME, Quetglas A, Álvarez-Berastegui D, Esteban A, González M, Hidalgo M. (2015) Spatially Explicit Modeling Reveals Cephalopod Distributions Match Contrasting Trophic Pathways in the Western Mediterranean Sea. *PLoS ONE* 10(7): e0133439. , doi:10.1371/journal.pone.0133439, 2015
15. I Álvarez, J M Rodriguez, I A Catalán, M Hidalgo, D Alvarez-Berastegui, A Aparicio-González, R Balbín, F Alemany (2015) Larval fish assemblage structure in the surface layer of the northwestern Mediterranean under contrasting oceanographic scenarios, *Journal of Plankton Research*, 37: 834-850. 2015, doi: 10.1093/plankt/fbv055
16. Lucía Rueda, Enric Massutí, Diego Alvarez-Berastegui and Manuel Hidalgo (2015), Effect of intra-specific competition, surface chlorophyll and fishing on spatial variation of gadoid's body condition, *Ecosphere*, vol 6, Issue 10 (October 2015):art175. <http://dx.doi.org/10.1890/ES15-00087.1>
17. M. Hidalgo, P. Reglero, D. Álvarez-Berastegui, A.P. Torres, I. Álvarez, J.M. Rodriguez, A. Carbonell, R. Balbín, F. Alemany (2015) Hidden persistence of salinity and productivity gradients shaping pelagic diversity in highly dynamic marine ecosystems *Marine Environmental Research*, *Marine Environmental Research*. Volume 104, March 2015, Pages 47–50.

## 2014

1. Alvarez-Berastegui, D., L. Ciannelli, A. Aparicio-Gonzalez, P. Reglero, M. Hidalgo, J.L., López-Jurado, J. Tintoré, F. Alemany, 2014. Spatial Scale, Means and Gradients of Hydrographic Variables Define Pelagic Seascapes of Bluefin and Bullet Tuna Spawning Distribution. *PLoS ONE* 9(10): e109338.doi:10.1371/journal.pone.0109338. 2014
2. Alvarez, A. and B. Mourre. 2014. Cooperation or coordination of underwater glider networks? An

assessment from Observing System Simulation Experiments in the Ligurian Sea. *Journal of Oceanic and Atmospheric Technology*, 31, 2268–2277.

3. Carbonell, A., Tor, A., Álvarez-Berastegui, D., Vélez-Belchi, P., Santos, A., Balbín, R., Alemany, F. 2014. Environmental driving forces determining the epipelagic decapod larval community distribution in the Balearic Sea (western Mediterranean). *Crustaceana*, Volume 87, Issue 6, pages 686–714. DOI: 10.1163/15685403-00003316.
4. Cinnirella S., Sardà R., Suárez-de Vivero J.L., Brennan R., Angelidis M., Luisetti T., Barausse A., March D., Murciano C., Newton A., Icely J., Raux P., Rees S., Palmieri M.G., Albaiges J., Pirrone N. & K. Turner. 2014. Steps toward a shared governance response for achieving Good Environmental Status in the Mediterranean Sea. *Ecology and Society*, v 19 (4), art. 47.
5. Fornós, J.J., Ginés, J., Gràcia, F., Merino, A., Gómez-Pujol, L., Bover, P. 2014. Cave deposits and sedimentary processes in Cova des Pas de Vallgornera (Mallorca, Western Mediterranean). *International Journal of Speleology*, 43: 159-174. DOI: 10.5038/1827- 806X.43.2.5
6. Malanotte-Rizzoli, P. V Artale, GL Borzelli-Eusebi... J. Tintoré, G. Triantafyllou. 2014. Physical forcing and physical/biochemical variability of the Mediterranean Sea: a review of unresolved issues and directions for future research. *Ocean Science*, 10 (3.) pp. 281-322. doi:10.5194/os-10-281-2014.
7. Hidalgo, M., Reglero, P., Álvarez-Berastegui, D., P. Torres, A., Álvarez, I., Rodriguez, J.M., Carbonell, A., Zaragoza, N., Tor, A., Goñi, R., Mallol, S., Balbín, R., Alemany, F. 2014. Hydrographic and biological components of the seascape structure the meroplankton community in a frontal system. *Marine Ecology Progress Series* 505:65- 80 (2014) - doi:10.3354/meps10763.
8. Mourre B. and J. Chiggiato. 2014. A comparison of the performance of the 3-D super-ensemble and an ensemble Kalman filter for short-range regional ocean prediction. *Tellus A*, 66, 21640.
9. Oguz, T.; D. Macias; J. Garcia-Lafuente; A. Pascual; J. Tintoré. 2014. Fueling Plankton Production By a Meandering Frontal Jet: A Case Study For The Alboran Sea (Western Mediterranean) *PlosOne* 9(11): e111482. doi:10.1371/journal.pone.0111482
10. Olita, S. Sparnocchia, S. Cusí, L. Fazioli, R. Sorgente, J. Tintoré, and A. Ribotti. 2014. Observations of a phytoplankton spring bloom onset triggered by a density front in NW Mediterranean. *Ocean Science*, Vol 10, 657-666, doi:10.5194/os-10-6 57.
11. Onken R., M. Ampolo-Rella, G. Baldasseroni, I. Borrione, D. Cecchi, E. Coelho, S. Falchetti, H.-V. Fiekas, A. Funk, Y.-M. Jiang, M. Knoll, C. Lewis, B. Mourre, P. Nielsen, A. Russo, R. Stoner and E. Thorp Kasel. 2014. REP14-MED Cruise report. CMRE Cruise.

12. Reglero P, Tittensor DP, Álvarez-Berastegui D, Aparicio-González A, Worm B. 2014. Worldwide distributions of tuna larvae: revisiting hypotheses on environmental requirements for spawning habitats. *Mar Ecol Prog Ser* 501:207-224.
13. Rio, M.H. A Pascual, PM Poulain, M Menna, B Barceló, J Tintoré. 2014. Computation of a new Mean Dynamic Topography for the Mediterranean Sea from model outputs, altimeter measurements and oceanographic in-situ data. *Ocean Science*, 10, 731- 744,doi:10.5194/os-10-731-2014.
14. Sandra Mallol, Ángel Mateo-Ramírez, Francisco Alemany, Diego Álvarez-Berastegui, David Díaz, José Luis López-Jurado, Raquel Goñi, 2014. Abundance and distribution of scyllarid phyllosoma larvae (Decapoda: Scyllaridae) in the Balearic Sea (Western Mediterranean). *Journal of Crustacean Biology*, Volume 34, Issue 4, pages 442–452. DOI: 10.1163/1937240X-00002250.
15. Sardà, R., T. O'Higgins, R. Cormier, A. Diedrich, and J. Tintore. 2014. A proposed ecosystem-based management system for marine waters: linking the theory of environmental policy to the practice of environmental management. *Ecology and Society* 19(4):51. <http://dx.doi.org/10.5751/ES-07055-190451>.
16. Maite Vázquez-Luis, David March, Elvira Alvarez, Diego Alvarez-Berastegui and Salud Deudero (2014) Spatial distribution modelling of the endangered bivalve *Pinna nobilis* in a Marine Protected Area, *Journal of Sea Research, Mediterranean Marine Science* 15 (3), 626-634

## 2013

1. Barbara A. Muhling, Patricia Reglero, Lorenzo Ciannelli, Diego Alvarez-Berastegui, Francisco Alemany, John T. Lamkin, Mitchell A. Roffer,. 2013. A comparison between environmental characteristics of larval bluefin tuna (*Thunnus thynnus*) habitat in the Gulf of Mexico and western Mediterranean Sea. *Marine Ecology Progress Series*. V486 p. 257-276.
2. Drobinski, P., Tintoré J., Wernli, H. 2013. HyMeX, a 10-year multidisciplinary program on the Mediterranean water cycle. *Bulletin American Meteorological Society*. doi: 10.1175/BAMS-D-12-00242.1
3. Gómez- Pujol, L.; A. Orfila, A. Álvarez-Elalcuria, J. Terrados, J. Tintoré. *Posidonia oceanica* beach-cast litter in Mediterranean beaches: a coastal videomonitoring study. *Journal of Coastal Research SI* 66:1768-1773. 2013
4. Gómez-Pujol, L., Gelabert, B., Fornós, J.J., Rosselló, V.M., Pardo, J.E., Segura, F. 2013. Structural control on the presence and character of Calas: examples from Balearic Islands limestone rock macroforms. *Geomorphology*, 194: 1-15. DOI 10.1016/j.geomorph.2013.03.012

5. Gómez-Pujol, L., Roig-Munar, F.X., Fornós, J.J., Balaguer, P., Mateu, J. 2013. Provenance-related characteristics of beach sediments around the island of Menorca, Balearic Islands (western Mediterranean). *Geomarine Letters*, 33: 195-208.
6. Juza, M., L. Renault, S. Ruiz, J. Tintoré. 2013. Origin and pathways of Winter Intermediate Water in the Northwestern Mediterranean Sea using observations and numerical simulation. *J. Geophys. Res. Oceans* doi.org/10.1002/2013JC009231.
7. Oguz, T., D. Macias; L. Renault; J. Ruiz, J. Tintore. 2013. Controls of plankton production by pelagic fish predation and resource availability in the Alboran and Balearic Seas. *Prog. In Oceanogr.* 112-113. 1-1. doi: 10.1016/j.pocean.2013.03.001
8. Reglero, P.; R. Balbín; A. Ortega; D. Alvarez Berastegui; A. Gordo; A.P. Torres; V. Moltó; A. Pascual; F. De La Gándara; F. Alemany. 2013. First attempt to assess the viability of bluefin tuna spawning events in offshore cages located in an a priori favourable larval habitat [Primer intento de evaluación de la viabilidad del desove de atún rojo en jaulas en alta mar ubicadas en un hábitat a priori favorable para las larvas]. *Scientia Marina*. 77 - 4, pp. 585 - 594.
9. Ruiz, S.; Picot, N.; Tintoré, J.; Valladeau, G.; Pujol, M-I.; Faugère, Y.; Heslop, E.; Pascual, A.; Troupin, Ch.; Torner, M.; Lana, A. 2013. SARAL-AltiKa capabilities to detect coastal currents in the Western Mediterranean: comparisons with glider data. *Aviso Users Newsletter# 10*.
10. Sayol, J. M., A. Orfila, G. Simarro, C. López, L. Renault, A. Galán, and D. Conti, 2013. Sea surface transport in the Western Mediterranean Sea: A Lagrangian perspective. *Journal of Geophysical Research: oceans*, 118(12), doi:10.1002/2013JC009243.
11. Tintoré, J., G. Vizoso, B. Casas, S. Ruiz, E. Heslop, L. Renault, T. Oguz, B. Garau, A. Pascual, M. Martínez-Ledesma, L. Gómez- Pujol, A. Álvarez-Ellacuría, A. Orfila, F. Alemany, D. Álvarez-Berastegui, P. Reglero, E. Massuti, P. Vélez-Belchí, J. Ruiz, M. Gómez, E. Álvarez, M. Manriquez. 2013. SOCIB; the Balearic Islands Observing and Forecasting System responding to science, technologyand society needs. *Marine Tech Soc. J.* Vol 47, N. 1 pp 101-117. 2013. doi: 10.4031/MTSJ.47.1.10
12. Vidal, M., Fornós, J.J., Gómez-Pujol, L., Palmer, M., Pons, G.X., Balaguer, P. 2013. Exploring rock coast bioerosion: rock fragments intestine transition time and erosion rates computation of the gastropod Monodonta articulata. *Journal of Coastal Research. Spec. Issue.*, 65: 1704-1709
13. Rodriguez, J.M., Alvarez, I., Lopez-Jurado, J.L., Garcia, A., Balbin, R., Alvarez-Berastegui, D., Torres, A.P., Alemany, F. an (2013) Environmental forcing and the larval fish community associated to the Atlantic bluefin tuna spawning habitat of the Balearic region (Western Mediterranean), in early summer 2005, *Deep Sea Research, Volume 77, July 2013, Pages 11-*

## 2012

1. Bouffard, J., Renault, L. ; Ruiz, S.; Pascual, A.; Dufau, C.; Tintore, J., 2012. Sub-surface small-scale eddy dynamics from multi-sensor observations and modelling. *Prog. in Oceanog* Vol. 106. pp: 62-79 DOI:10.1016/j.pocean.2012.06.007.
2. Cinnirella S, March D, O'Higgins T, Murciano C, Sardà R, Albaiges J, Pirrone N. 2012. A multidisciplinary Spatial Data Infrastructure for the Mediterranean to support implementation of the Marine Strategy Framework Directive. *International Journal of Spatial Data Infrastructures Research*, vol. 7, p. 300-322.
3. Diedrich A., J. Tintoré. 2012. Multi-Method Approach to Exploring Social-Ecological Dimensions in a Mediterranean Suburban Beach Setting. *Coastal Manag.* 40; 301-311. DOI:10.1080/08920753.2012.677636.
4. Heslop, E., S. Ruiz, J. Allen, JL. Lopez-Jurado, L. Renault, J. Tintoré. 2012. Autonomous underwater gliders monitoring variability at “choke points” in our ocean system: A case study. *Geophys. Res. Lett.* 39, L20604. doi: 10.1029/2012GL053717.
5. Ponce de León, S., A. Orfila, L. Gómez-Pujol, L. Renault, G. Vizoso, J. Tintoré. 2012. Assessment of wind models around the Balearic Islands for operational wave Forecast. *Applied Ocean Research*. 34, 1-9 DOI: 10.1016/j.apor.2011.09.001.
6. Renault, L., J. Chiggiato, J. C. Warner, M. Gomez, G. Vizoso, J. Tintoré. 2012. Coupled atmosphere-ocean-wave simulations of a storm event over the Gulf of Lion and Balearic Sea. *J. Geophys. Res.*, 117, C09019, doi:10.1029/2012JC007924. 2012
7. Renault, L.; T. Oguz; A. Pascual; G. Vizoso; J. Tintoré. 2012. Surface circulation in the Alborán Sea (western Mediterranean) inferred from remotely sensed data. *J. Geophys. Res. Oceans* 117 - 8, DOI: 10.1029/2011JC007659.
8. Ruiz S., B. Garau, M. Martinez-Ledesma, B. Casas, A. Pascual, G. Vizoso, J. Boffard, E. Heslop, A. Alvarez, P. Testor, J. Tintoré. 2012. New technologies for marine research: 5 years of glider activities at IMEDEA. *Scientia Marina* 76S1: 261-270. doi: 10.3989/scimar.03622.19L.
9. Ruiz, S., L. Renault, B. Garau, and J. Tintoré. 2012. Underwater glider observations and modeling of an abrupt mixing event in the upper ocean. *Geophys. Res. Lett.* 39, L01603, doi:10.1029/2011GL050078.
10. Solé J., Pascual, A., Ruiz, S. Tintoré J. 2012. Ocean color response to wind forcing in the

Alboran Sea: a new forecasting method. *Journal of Marine Systems* 1–8. 98–99 doi:10.1016/j.jmarsys.2012.02.007.

11. Vidal-Vijande, E.; A. Pascual, B. Barnier, JM. Molines, N. Ferry, J. Tintore. 2012. Multiparametric analysis and validation in the Western Mediterranean of three global OGCM hindcasts. *Scientia Marina* 76S1: 147-164 doi:10.3989/scimar.03613.19.
12. Reglero P., Ciannelli L., Álvarez-Berastegui D., Balbín R., López-Jurado J.L., Alemany F. (2012). Geographically and environmentally driven spawning distributions of tuna species in the western Mediterranean Sea. *Marine Ecology Progress Series* 463:273-284.

## 2011

1. Álvarez-Ellacuría, A., Orfila, A., Gómez-Pujol, L., Simarro, G., Obregón, N. 2011. Decoupling spatial and temporal patterns in short-term beach shoreline response to wave climate. *Geomorphology*, 128: 199-208.
2. Balaguer, P., R. Sardá, A. Diedrich, M. Fuster, T. Cañelles, J. 2011. Tintoré. Spatial analysis of recreational boating as a first.key step for Marine Spatial Plannig in Mallorca (Balearic Islands, Spain). *Ocean and Coastal Management* 54, 241e249 doi:10.1016/j.ocecoaman.2010.12.002. 2011
3. Coombes, M.A., Naylor, L.A., Thompson, R.C., Roast, S.D., Gómez-Pujol, L., Fairhurst, R.J. 2011. Colonisation and weathering of engineering materials by marine microorganisms: a SEM study. *Earth Surface Processes and Landforms*. DOI 10.1002/esp.2076.
4. Diedrich, A, Upham, P, Levidow, L, van den Hove, S. 2011. Framing environmental sustainability challenges for research and innovation in European policy agendas. *Environmental Science and Policy* doi:10.1016/j.envsci.2011.07.012. 2011.
5. Diedrich, P. Balaguer, J. Tintoré. 2011. Methodology for Applying the Limits of Acceptable Change Process to the Management of Recreational Boating in the Balearic Islands, Spain (Western Mediterranean). *Ocean and Coastal Management* 54, 341-351 doi:10.1016/j.ocecoaman.2010.12.009. 2011
6. Garau, B., S. Ruiz, G.W. Zang, A. Pascual, E. Heslop, J. Kerfoot, J. 2011. Tintoré. Thermal lag correction on Slocum CTD glider data. *J. of Atmos. And Oce. Tech.* 28.pp 1065 – 1071 DOI: 10.1175/JTECH-D-10-05030.1.
7. Gómez-Pujol, L., Jackson, D.W.T., Cooper, J.A.G., Málvarez, G., Navas, F., Loureiro, C., Smith, T.A. 2011. Spatial and temporal patters of sediment activation depth on high-energy mesotidal beach. *Journal of Coastal Research*. SI64: 85-89

8. Gómez-Pujol, L., Orfila, A., Álvarez-Ellacuría, A., Tintoré, J. 2011. Controls on sediment dynamics and medium-term morphological change in a barred microtidal beach (Cala Millor, Mallorca, Western Mediterranean). *Geomorphology*, 132: 87-92. Doi: 10.1016/j.geomorph.2011.04.026. 2011
9. Renault, L., G. Vizoso, A. Jansá, J. Wilkin, J. Tintoré. 2011. Toward the predictability of meteotsunamis in the Balearic Sea using regional nested Atmosphere and Ocean Models. *Geophys. Res. Lett.* 38, L10601, doi:10.1029/2011GL047361.
10. Schunter, C.; Carreras-Carbonell, J.; Macpherson, E.; Tintoré, J.; Vidal, E.; Pascual, A.; Guidetti, P.; Pascual, M. 2011. Matching genetics with oceanography: directional gene flow in a Mediterranean fish species. *Molecular Ecology* 20, 5167–5181 doi: 10.1111/j.1365-294X.2011.05355.x.
11. Vidal-Vijande, E., A. Pascual, B. Barnier, J.M. Molines, J.Tintore. 2011. Analysis of a 44-Year hindcast for the Mediterranean Sea: Comparison with Altimetry and In Situ Observations. *Scientia Marina* 75 (1) Pp 71-86 DOI: 10.3989/scimar.2011.75n1071. 2011