




PERSONAL INFORMATION



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Sex M | Date of birth 27/08/1960 | Nationality Spanish

POSITION

Research Professor from CSIC (Spanish Research Council) at IMEDEA (CSIC-UIB) and Director of SOCIB (Balearic Islands Coastal Observing System)

WORK EXPERIENCE

12/2009 - present

Director of ICTS SOCIB

Business or sector: Oceanography

09/2000 - present

Research Professor from CSIC

IMEDEA (CSIC-UIB)

Business or sector: Research

1990 - 2000

Director National Programme for Marine Sciences & Technology

Spanish National Research Plan

(Part time)

06/1995 – 08/1998

Permanent Associate Professor

University of the Balearic Islands

Business or sector: Education/University

Business or sector: Management of Science

01/1987 – 08/1989

Assistant Professor

Physics Depart., University of the Balearic Islands

Business or sector: Education/University

01/1985 – 01/1987

Research Fellow (graduate student)

Physics Dept., University of the Balearic Islands

EDUCATION AND TRAINING

June 1988

PhD. / Doctor in Physics

Dept. Of Physics. University of the Balearic Islands.

March 1985

BSc Degree

Dept. Of Physics Earth and Cosmos. Faculty of Sciences, University of Barcelona

June 1984 **Degree (5 years): Physical Sciences / Physis**
Dept. Of Physics Earth and Cosmos. Faculty of Sciences, University of Barcelona

PERSONAL SKILLS

Mother tongue(s) Spanish

| Other language(s) | UNDERSTANDING | | SPEAKING | | WRITING |
|-------------------|---------------|---------|--------------------|-------------------|---------|
| | Listening | Reading | Spoken interaction | Spoken production | |
| English | C1/2 | C1/2 | C1/2 | C1/2 | C1/2 |
| French | C1/2 | C1/2 | C1/2 | C1/2 | C1/2 |

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

ADDITIONAL INFORMATION

Joaquín Tintoré is Professor of Physical Oceanography from CSIC (Spanish Research Council) at IMEDEA (9/2000) and since 12/2008, Director of the Spanish Large Scale Marine Infrastructure SOCIB (Balearic Islands Coastal Ocean Observing and Forecasting System), a new multi-platform observing system that responds to scientific, technological and strategic society priorities related to the role of the oceans and the coasts in a global change framework. SOCIB responds to a paradigm change in ocean and coastal observation, advancing towards quasi-real time multi-platform systems. Since 2013, SOCIB is providing streams of data, tools, products and modelling services for science and society, a clear performance indicator of SOCIB achievements.

His present interest is to implement new monitoring devices such as autonomous underwater gliders as key elements of this new multi-platform and real time approach to ocean and coastal observation. More generally his interest is to contribute to peer review state of the art science, the development of new technologies and also the development of tools for science based decision support, outreach and dissemination, by this, increasing our capacity for knowledge based, reliable and independent response to society needs, contributing therefore to fill the science-policy gap.

He has published 182 papers in high IF international journals, has been invited keynote speaker at 51 conferences, principal investigator in 55 peer reviewed research projects, many of them EU funded projects -since 1990-, and coordinating two of them. He also has extensive national and international experience in Management of Science with positions, in particular related to Research Infrastructures since 2010. He has also performed advisory and evaluation activities for the European Commission, the industry and other national and international entities.

Recent Scientific Publications

1. 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*, July 2017. doi: 10.1002/2017JC012866
2. Ličer, M., B. Mourre, C. Troupin, A. Kriemeyer, A. Jansá, J. Tintoré. Numerical study of Balearic meteotsunami generation and propagation under synthetic gravity wave forcing, *Ocean Modelling*, Volume 111, Pages 38-45, ISSN 1463-5003, <http://dx.doi.org/10.1016/j.ocemod.2017.02.001>. 2017.
3. Oguz T., Mourre B. and J. Tintoré. 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. 2016.
4. Escudier, R., B. Mourre, M. Juza, and J. Tintoré, 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. 2016.
5. Juza, M., R. Escudier, A. Pascual, M.-I. Pujol, C. Troupin, B. Mourre, and J. Tintoré. 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>. 2016. (A) (SCI)
6. Juza, M., R. Escudier, A. Pascual, M-I. Pujol, G. Taburet, C. Troupin, B. Mourre, J. Tintoré, 2016: Impacts of reprocessed altimetry on the surface circulation and variability of the Western Alboran Gyre. *Advances in Space Research* 58 - 277–288. <http://dx.doi.org/10.1016/j.asr.2016.05.026>. 2016.
7. Juza, M., B. Mourre, I. Renault, S. Gómara, K. Sebastián, S. Lora, J.P. Beltran, B. Frontera, B. Garau, C. Troupin, M. Torner, E. Heslop, B. Casas, R. Escudier, G. Vizoso, and J. Tintoré: SOCIB operational ocean forecasting system and multi-platform validation in the western Mediterranean Sea, *J. Operat. Oceanogr.*, Vol. 9., pp 155-166. DOI:10.1080/1755876X.2015.1117764. 2016.
8. Capó, E., Orfila, A., Sayol, J.M., Juza, M., Garcia-Sotillo, M., Conti, D., Simarro, G., Mourre, B., Tintoré, J. (2015). Assessment of operational models in the Balearic Sea during a MEDESS-4MS experiment. *Deep Sea Research II*, 133, 118-131, doi:10.1016/j.dsr2.2016.03.009. 2016
9. Troupin, C., J.P. Beltran, E. Heslop, M. Torner, B. Garau, J. Allen, S. Ruiz, J. Tintoré: 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. 2016.
10. Sotillo, M.G., Garcia-Ladona, E., Orfila, A., Rodríguez-Rubio, P., Rietz, A., Conti, D., Padorno, E., Jiménez, J.A., Capó, E., Pérez, F., Sayol, J.M., de los Santos, F. J., Amo, A., Maraver, J.C., Troupin, C., Tintore, J., Álvarez Fanjul, E. (2015). The MEDESS-GIB database: Tracking the Atlantic water inflow. *Earth Syst. Sci. Data*, 8, 141-149, doi:10.5194/essd-8-141-2016, 2016.
11. Lana, A., Marmain, J., Fernandez, V., Tintoré, J. and Orfila, A: Wind influence on surface current variability in the Ibiza Channel from HF Radar. *Ocean dynamics*. Vol. 66, Issue 4, pp 483–497. doi:10.1007/s10236-016-0929-z. 2016.
12. 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. 2016.
13. Cotroneo, Y.; G. Aulicino; S. Ruiz; A. Pascual; G. Budillon; G. Fusco., J. Tintoré, 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*, Volume 162, October 2016: 73-88. <https://doi.org/10.1016/j.jmarsys.2015.12.004>
14. 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.: 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. 2015
15. Oguz, T., D. Macias, J. Tintoré: Ageostrophic Frontal Processes Controlling Phytoplankton Production in the Catalano-Balearic Sea (Western Mediterranean). *PLoS ONE* 10(6): e0129045. doi:10.1371/journal.pone.012904. 2015.

16. Juza, M., B. Mourre, J.-M. Lellouche, M. Tonani, and J. Tintoré. 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. 2015.

17. Lana A., V. Fernández, J. Tintoré. SOCIB Continuous Observations Of Ibiza Channel Using HF Radar. *Sea Technology*. March, Vol. 56, No. 3, pp. 31-34. 2015.

18. Pascual, A. Lana, C. Troupin, S. Ruiz, Y. Faugère, R. Escudier and J. Tintoré. 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. 2015.

19. Troupin C., A. Pascual, G. Valladeau, A. Lana, Em Heslop, S. Ruiz, M. Torner, N. Picot and J. Tintoré. 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. 2015

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... until 182 papers.

Scientific
Project:
**Principal
Investigator**

1. **Project:** ODIP2: Extending the ocean data interoperability platform.
Centers: SOCIB
Funding institution: EC H2020. ODIP 2 (GA ref: 654310)
Participation: PI ES (SOCIB) European coordinator; Natural Environment Research Council (NERC)
Dates: 04/2015 – 03/2018 (36 months)
2. **Project:** JERICO NEXT: Joint European Research Infrastructure network for Coastal Observatory – Novel European eXpertise for coastal observatories
Centers: SOCIB
Funding institution: EC H2020. Project n°: 654410
Participation: PI ES (SOCIB) European coordinator; IFREMER
Dates: 09/2015 – 09/2019 (48 months)
3. **Project:** Copernicus MED MFC
Centers: SOCIB
Funding institution: Copernicus Marine Environment Monitoring Service
Participation: PI ES (SOCIB) European coordinator; MECATOR OCEAN
Dates: 05/2015 – 04/2018 (36 months)
4. **Project:** In Situ TAC Copernicus Marine Service
Centers: SOCIB
Funding institution: Copernicus Marine Environment Monitoring Service
Participation: PI ES (SOCIB) European coordinator; MECATOR OCEAN
Dates: 04/2015 – 03/2018 (36 months)
5. **Project:** Understanding meso and submesoscale ocean interactions to improve Mediterranean CMEMS products. (CMEMS Service Evolution Call for Tender 21-SE-CALL1)
Centers: SOCIB
Funding institution: Copernicus Marine Environment Monitoring Service
Participation: PI ES (SOCIB) European coordinator; MECATOR OCEAN
Dates: 05/2016 – 03/2018 (24 months)
6. **Project:** MEDCLIC: El Mediterráneo a un click. Nuevos sistemas de observación para la ciencia y la sociedad: más allá de la divulgación
Centers: SOCIB

Funding institution: Fundació La Caixa
Dates: 06/2014 – 11/2018

7. **Project:** MyOcean Follow On: Pre-Operational Marine Service Continuity in Transition toward Copernicus.
Centre: IMEDEA (CSIC-UIB)
Funding: CE. Contract Number: Project Id: 633085. MyOcean FO_CA_20140918. Copernicus/GMES.
Participation: investigador ppal – CSIC/ES. Coord. Europeo; Pierre Bahurel (Mercator ocean)
Dates: aprobado en noviembre 2014, duración 6 meses.
8. **Project:** MedSea_checkpoint <http://www.emodnet-mediterranean.eu/>
Centre: SOCIB
Funding: Project EC-DG for Maritime Affairs and Fisheries. Contract MARE/2012/11- Contract number: SI2.658137
Participation: Inv. Principales (SOCIB): J. Tintoré. IP: Nadia Pinaridi (IT, Coordinador)
Dates: 12/2013-12/2016 (36 months).
9. **Project:** MyOcean2: Prototype Operational Continuity for GMES Ocean Monitoring and Forecasting Service
Centre: IMEDEA (CSIC-UIB)
Funding: CE – FP7/GMES
Participation: investigador ppal – CSIC. Coordinador Europeo; Pierre Bahurel (Mercator ocean)
Dates: 2010-2011
10. **Project:** MEDESS-4MS: Mediterranean Decision Support System for Marine Safety
Centre: IMEDEA (CSIC-UIB)
Funding: CE-Med
Participation: investigador ppal – CSIC / co-pi A. Orfila
Dates: 2012-2014
11. **Project:** PERSEUS, Policy-oriented marine Environmental Research for the Southern European Seas
Centre: IMEDEA (CSIC-UIB)
Funding: CE – 7 FP
Participation: investigador ppal – IMEDEA/CSIC y Coord. WP3 “New Observing Systems”
Dates: 01/2012-31/12/2015
12. **Project:** JERICO – Joint European Research Infrastructure Coastal Ocean, <http://www.jerico-fp7.eu>
Centre: IMEDEA (CSIC-UIB)
Funding: CE – 7 FP
Participation: investigador ppal – IMEDEA/CSIC
Dates: 2011-2014

Supervision
of PhD

1. TITLE: Unraveling high frequency and sub-seasonal variability at key ocean circulation ‘chok points: a case study from glider monitoring in the Western Mediterranean Sea.
PHD. STUDENT: Emma Heslop.
UNIVERSITY: SOC/University of Southampton, UK.
DATE: November 7, 2014
2. TITLE: Shelf/slope exchanges through submarine canyons and implication on bio-geochemical fluxes.
PHD. STUDENT: Antoni Jordi Ballester
UNIVERSITY: Islas Baleares. Becario proy. Europeo
DATE: 05 octubre 2006 QUALIFICATION: Apto Cum Laude
3. TITLE: Circulación ageostrófica en frentes oceánicos
PHD. STUDENT: Pedro Velez
UNIVERSITY: Islas Baleares (Dept. Física). Investigador IEO.
DATE: 06/2006 QUALIFICATION: Apto Cum Laude

4. TITLE: Circulación de gran escala en el Mediterráneo y su relación con forzamientos anómalos
PHD. STUDENT: Vicente Fernandez
UNIVERSITY: Islas Baleares. Becario Project europeo
DATE: 2004 QUALIFICATION: Apto Cum Laude
5. TITLE: Nonlinear modelling of natural processes with genetic algorithms
PHD. STUDENT: Alejandro Orfila
UNIVERSITY: Islas Baleares (Dept. Física). Contratado
DATE: 2003 - co-dirigida con el Dr. Alberto Alvarez QUALIFICATION: Apto Cum Laude
6. TITLE: Influencia de la topografía sobre la circulación oceánica a pequeña y gran escala
PHD. STUDENT: Alberto Alvarez
UNIVERSITY: Islas Baleares (Dept. Física). Becario F.P.I.
DATE: 1995 QUALIFICATION: Apto Cum Laude
7. TITLE: "Circulation synoptique et dynamique de la Mer des Balears"
PHD. STUDENT: Jean Michel Pinot
UNIVERSITY: de Paris VI. Becario MAST (C.E)
DATE: 1994
QUALIFICATION: Très Honorable avec Felicitations du Jury (calificación obtenida con máximo por un 20% de las Tesis Doctorales, anualmente)
8. TITLE: "Estructura de las masas de agua y dinámica del Mar de Alborán"
PHD. STUDENT: Gregorio Parrilla Barrera (IEO)
UNIVERSITY: de las Islas Baleares.
DATE: 1994 QUALIFICATION: Apto Cum Laude
9. TITLE: Variabilidad espacial y temporal en el Mediterráneo Occidental
PHD. STUDENT: Alvaro Viúdez
UNIVERSITY: Islas Baleares (Dept. Física). Becario F.P.I.
DATE: 1994 QUALIFICATION: Apto Cum Laude
10. TITLE: Aproximación numérica al estudio de la circulación en el mar Catalán
PHD. STUDENT: Emilio García
UNIVERSITY: Aut. Barcelona, Physics
DATE: 1990 (co-director, con Dr. Font) QUALIFICATION: Apto Cum Laude

Experience in scientific
management at national level

Director of ICTS SOCIB, from December 2009 to present. Responsible for the Plan de Implementación de SOCIB 2010-2013, (approved in 07/2010) and the new Plan Estratégico de SOCIB 2013-2016, approved in 10/2014.

Institutional Coordinator of CSIC in the Balearic Islands. 2006-present. Responsible of the the Delegación del CSIC en las Islas Baleares (outreach programs, scientific culture, institutional coordination, etc...)

Head of the Departamento de Tecnologías Marinas, Oceanografía Operacional y Sostenibilidad of IMEDEA (CSIC-UIB), from September 2008 to May 2013.

Chair of the Comisión Permanente de Investigación de Accidentes e Incidentes Marítimos, designated by Ministra de Fomento and the President of the Balearic Islands, Septiembre 2008 to 2011.

AZTI Scientific Advisory Board, 07/2007-12/2012

Chair of the Comisión Asesora del Secretario de Estado de Universidades e Investigación de la Agencia Nacional de Evaluación y Prospectiva (ANEP), Ministerio de Educación y Ciencia (BOE 10 may 2005). From 1 September 2005 to September 2010.

Director of IMEDEA, Instituto Mediterráneo de Estudios Avanzados (CSIC-UIB). Esporles y Palma de Mallorca. From 13/04/1999 to 17/07/2008.

Coordinator of Área de Recursos Naturales del CSIC (21 Instituts, 400 researchers and a staff with 2.000 persons). From 1/03/2001 to 31/10/2004

Scientific advisory committee - Prestige: Member of CCA_Prestige, independent committee constituted by 11 researchers, created 12 December 2002 by VicePresident of the Spanish Government in order to advice about immediately actions and in the long-term overcome

Prestige vessel's oil spill. End date: 4 March 2003. More information at: <http://csicprestige.iim.csic.es/desarro/introduc/index.htm>

Experience in scientific management at international level

Member of Science Europe Working Group on Research Infrastructures; from January 2015 to present.
Euro-GOOS Coastal Ocean and Shelf Seas Modelling Working Group. From December 2012-present
E – ARGO – ERIC; Euro-Argo European Research Infrastructure Consortium (E-A ERIC), Scientific and Technical Advisory Group (STAG), since February 2012.
HYMEX: International Scientific Steering Committee (ISSC), since November 2010, Hydrological cycle in the Mediterranean EXperiment. <http://www.hymex.org/>
Marine Research Infrastructures EU Experts group (member of), 2010-01/2013. EU strategy for marine and maritime research. EC. Research & Innovation DG.
Eurogoos Science Advisory Working Group. Since 2009-present.
MyOcean, Operational Oceanography in Europe. Scientific Steering Committee. 2009-2012
COSYNA (Coastal Observation System for the Northern and Arctic Seas), GKSS (Institute for Coastal Research) from GKSS (Helmholtz Association), KDM (German Consortium of Marine Institutes), AWI, etc. Scientific Advisory Committee. Since 2009-present
MOON Mediterranean Operational Oceanography Network. Chairman Scientific Committee. Since 2008.
MOON Mediterranean Operational Oceanography Network. Representative of the CSIC. Since 2007.
Comité MAST de Representantes Nacionales: member of Comité del Programa de Ciencia y Tecnología Marina (MAST) de la Unión Europea as a representative of Secretaría General del Plan Nacional. 2/95-10/97
“European Marine Board-European Science Foundation”: member of European Marine and Polar Board EmaPS (ESF), 3/95 – 12/98.
Vice-Chairman “European Marine Board-European Science Foundation”: 4/97– 12/98. Scientific Committee of National Representatives, SACLANTCEN-NATO: member of Delegación Española. SACLANTCEN (1996-2000).
Euro-Mediterranean Conference, EC: invited expert by the Comisión Europea and member of the scientific work group in charge of prepare the conference Euro-Mediterránea of Alejandría, area of the coastal zone (February- November 1996)

Honours and awards

- National Research Award ‘Alejandro Malaspina de Ciencias y Tecnologías de los Recursos Naturales’, 2003 “for relevant and innovative research that has developed in the field of oceanography, contributing very significantly to the knowledge of the mesoscale movements in the Mediterranean Sea”.

Other awards to the scientific work and science management:

- Award ‘Cámara de Comercio Industria y Navegación de Mallorca’, 2000
- Award ‘Fomento del Turismo de Baleares’, 2001
- Award to Research ‘Diario de Mallorca’, 2002
- Award ‘Revista Ejecutivos’, 2007