

PERSONAL INFORMATION

**Marta de Alfonso**

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Sex Female | Date of birth 27/02/1968 | Nationality Spanish

WORK EXPERIENCE

1991 – 2015 **Networks development manager**

Physical Environment Area, Technical Direction, Puertos del Estado

2015 – **Head of Climatic Data Department**

Physical Environment Area, Technical Direction, Puertos del Estado

<http://www.puertos.es>

- Oceanographic data management, quality control, analysis and validation.
- Participation in several European and national research projects related with oceanographic data management.

EDUCATION AND TRAINING

1993 - 1995 **MSc in Physics**

University: Alcalá de Henares, Madrid

Program: Oceanography, fluid mechanics and climatology

1986 - 1991 **BSc Mathematics**

University: Autónoma de Madrid

PERSONAL SKILLS

Mother tongue(s) Spanish

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

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

Communication skills

Good communication skills obtained through participation in several European Projects and presentations at international meetings and conferences.

Organisational / managerial skills

Responsible of the IBI in situ TAC component (MyOcean suite and CMEMS In Situ TAC Phase 1) at Puertos del Estado.  
Responsible of the development of wave product in CMEMS In Situ TAC Phase 1.

Job-related skills

- Responsible of operative working and real time data spreading of Puertos del Estado deep water buoy network.
- Oceanographic data management, analysis and quality control.
- Model and HF Radar validation with in situ data.
- Wave data analysis (in time and frequency domain). Analysis of freak waves from wave records.

## Computer skills

- Operating systems: Unix/Linux, Windows.
- Programming languages: Python, FORTRAN and PHP.
- Advanced user in C-shell, SQL.

## ADDITIONAL INFORMATION

## Memberships

- Member of DataMEQ working group and Fixed Platforms Task Team of EuroGOOS
- Member of IBI-ROOS and MONGOOS (regional alliances of EuroGOOS)

## Publications in scientific journals with peer review

- B. Pérez, E Álvarez, S. Pérez, **M. de Alfonso** and J. Vela. Use of tide gauge data in operational oceanography and sea level hazard warning systems. *Journal of Operational Oceanography*. Volume 6. Nº 2. August 2013.
- Tonani, M., Pinardi, N., Fratianni, C., Pistoia, J., Dobricic, S., Pensieri, S., **de Alfonso, M.** and Knittis, K. Mediterranean Forecasting System: forecast and analysis assessment through skill scores. *Ocean Science*, 5, 649-660, 2009.
- **M. Alfonso** and J. C. Nieto Borge. Directional Wave Navigation Radar Measurements Compared With Pitch-Roll Buoy Data. *J. Offshore Mech. Arct. Eng.* – February 1997 – Volume 119, Issue 1.

## Other publications

- Gómez, M., Pérez-Gómez, B., **De Alfonso, M.**, Pérez, S. and Ruiz, M. I. 2015. Waves and tides in the Canary Current Large Marine Ecosystem. In: Valdés, L. and Déniz - González, I. (eds). *Oceanographic and biological features in the Canary Current Large Marine Ecosystem*. IOC - UNESCO, Paris. IOC Technical Series, No. 115, pp. 115 - 131.
- Pouliquen, S., Carval, T., Guillotin, D., Coatanoan, C., Loubrieu, T., Guyot, C., Szekely, T., Gourrion, J., Grouazel, A., Von Schuckmann, K., Wedhe, H., Ringheim, L. S., Hammarklint, T., Hartman, A., Soetje, K., Gies, T., Jandt, S., Muller, L., **De Alfonso, M.**, Manzano Muñoz, F., Perivoliotis, L., Kassis, D., Chalkiopoulos, A., Marinova, V., Jaccard, P., Ledang, A., Sorensen, K., Notarstefano, G., Tintore, J., Kaitala, S., Roiha, P., Rickards, L., Manzella, G., Reseghetti, F. 2014. MyOcean In-Situ Thematic Centre: A service for operational Oceanography. In: 7th EuroGOOS Conference Proceedings Lisbon, 28-30 October 2014. 5 p.
- S Pouliquen, T Carval, D Guillotin, T Loubrieu, C Coatanoan, A Grouazel, K Von Schuckmann, H Wedhe, L S Ringheim, T Hammarklin, A Hartman, K Soetje, T Gies, **M De Alfonso**, L Perivoliotis, D Kassis, A Chalkiopoulos, V Marinova, P Jaccard, A Ledang, K Sorensen, G Notarstefano, J Tintore, S.Kaitala, P Roiha, L Rickards, G Manzella. MyOcean In Situ TAC: A new in situ service for operational and research communities. *Mercator Ocean – Coriolis quarterly newsletter – Special Issue*. 48-June-2013. pp 3-9.
- **Marta de Alfonso**. Presencia de olas gigantes (freak waves) en las costas españolas. *Ingeniería naval* Nº 884, pp: 35-39. Septiembre 2010. In spanish.
- E. Alvarez Fanjul, **M. Alfonso**, M.I.Ruiz, J.D.Lopez and I.Rodriguez Real Time Monitoring of Spanish coastal waters: The Deep Water Network. *Proceedings of the Third International Conference on EuroGOOS, 2002, Athens, Greece*.
- Jacques legrand, **Marta Alfonso**, Roberto Bozzano, Gerard Goasguen, Henrik Lindh, Alberto Ribotti, Ignacio Rodríguez and Christos Tziavos. Monitoring the marine environment operational practices in Europe *Proceedings of the Third International Conference on EuroGOOS, 2002, Athens Greece*.
- E. Alvarez Fanjul, **M. Alfonso** and I.Rodriguez. The RAYO Network: Implementation and first results. *Proceedings of the Tenth International Offshore and Polar Engineering Conference*. Seattle, USA, May 28-June 2, 2000.
- Alvarez Fanjul, E., **de Alfonso, M.**, Sánchez Arévalo. A view of the surface circulation in the Alboran Sea derived from eulerian buoy measurements and satellite imagery., I.R. *Actas de las II jornadas de análisis de variables y simulación numérica del intercambio de masas de agua a través del estrecho de Gibraltar*. Universidad de Cadiz. Editado por Juan Jose Alonso y Francisco Ortegon. Pp 3-17. 2000.
- JC. Carretero, M. Gómez, E.A. Fanjul, **M. de Alfonso**, JD López. A wave forecasting system for the Spanish Harbours. *Proceedings of the 5th international workshop on wave hindcasting and forecasting*, 1998

## Presentations-Conferences

- S. Tarot and **de Alfonso, M.** Wave data in the Copernicus Marine Service In Situ TAC. *International Workshop on Wave Hindcasting and Forecasting*. Liverpool, UK, September 2017.
- T. Carval, F. Manzano Muñoz, S. Pouliquen, L. Petit de la Villeon, T. Loubrieu, H.Wedhe, L. S.

- Ringheim, T. Hammarklint, S. Tamm, **M. De Alfonso**, L. Perivoliotis, A. Chalkiopoulos, V. Marinova, J. Tintore, and C. Troupin. CMEMS in situ TAC. Copernicus Marine Environment Monitoring Service in situ Thematic Assembly Centre. A service for Operational Oceanography. The 4th Annual IQuOD Workshop. Tokyo, Japan. October 2016.
- **M. de Alfonso** and Alvarez, E. Spain and Puertos del Estado activities with regard to marine meteorological and oceanographic observations, opportunities and challenges. WIGOS Workshop for Regional Association VI. Split, Croatia. September 2016.
  - F. Manzano, S. Pouliquen, L. Petit de la Villeon, T. Carval, T. Loubrieu, H. Wedhe, L. S. Ringheim, T. Hammarklint, S. Tamm, **M. De Alfonso**, L. Perivoliotis, A. Chalkiopoulos, V. Marinova, G. Notarstefano, J. Tintore, C. Troupin. CMEMS (Copernicus Marine Environment Monitoring Service) In Situ Thematic Assembly Centre: A service for operational Oceanography. EGU General Assembly, Vienna, Austria, April 2016.
  - **M. de Alfonso** and Ruiz M.I. Puertos del Estado Deep Water Buoy Network: Development, challenges, risks and strengths. Marine Technology Workshop. Lisbon, Portugal. November 2015.
  - **M. Alfonso**, J.D. Lopez, E. Alvarez and M.I. Ruiz. Real time buoy data quality control and exploitation. The Fifth COPRI International Conference on ocean Wave Measurement and Analysis (WAVES), 2005.
  - Nieto Borge, J.C., **Alfonso, M.**, and Sanz, R., 1995, "Reliability of Measured Sea States Using Radar System on Shore". OMAE 14th Int. Conf., vol. II, Safety and Reliability, Copenhagen.
  - Alfonso, M., Morán, M., Mera, M., Rey, M.E., and Nieto Borge, J.C., 1994, "A new Method for Detecting Chaotic Dynamics in Time Series. An Application to the Analysis of Significant Wave Height Series". International Union of Geodesy and Geophysics, XXI General Assembly. Boulder, USA
  - Nieto Borge, J.C., **Alfonso, M.**, and Sanz-González, R., 1994, "Wave Measurement Calibration from a Ship-borne Radar System Using Pitch-roll Buoys". Permanent International Association of Navigation Congresses. Seville, Spain.
  - Nieto Borge, J.C., and **Alfonso, M.**, 1993, "Study of the Accuracy and Uncertainties of Directional Wave Navigation Radar Measurements Confronted with Pitch-roll Buoy Data". OMAE 12th Int. Conf. Proc., vol II, Safety and Reliability, Glasgow.
  - **Alfonso, M.**, and Nieto Borge, J.C., 1993, "Study of the Chaotic Behavior of Significant Wave Height Time Series". European Geophysical Society, 18th General Assembly, Wiesbaden, Germany.