



Marta de Alfonso

Nationality: Spanish **Date of birth:** 27/02/1968 **Gender:** Female

Phone number: (+34) 917229845 **Email address:** mar@puertos.es

WORK EXPERIENCE

Head of Climatic Data Department

Physical Environment Area, Puertos del Estado. [2014 – Current]

City: Madrid | Country: Spain

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

Networks development manager

Physical Environment Area, Puertos del Estado. [1991 – 2014]

City: Madrid | Country: Spain

EDUCATION AND TRAINING

MSc Physics

University: Alcalá de Henares, Madrid [1992 – 1995]

Field(s) of study: Oceanography, fluid mechanics and climatology

MSc Mathematics

University: Autónoma de Madrid [1986 – 1991]

Field(s) of study: Statistics and Probability, Applied Numerical Methods, Chaos Theory and Fractals.

LANGUAGE SKILLS

Mother tongue(s): Spanish

Other language(s):

English

LISTENING C1 **READING** C1 **WRITING** C1

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Programming languages

Python / FORTRAN / PHP / LaTeX / Shell scripting / SQL

Operating Systems

Windows / Linux/Unix

Databases

MySQL / PostgreSQL / Ingres

COMMUNICATION AND INTERPERSONAL SKILLS

European Projects

Excellent communication skills obtained through participation in several European Projects, teams and working groups and presentations at international meetings and conferences.

MANAGEMENT AND LEADERSHIP SKILLS

CMEMS In Situ TAC

Responsible of the IBI in situ TAC component in MyOcean suite, CMEMS-1 Phases 1 and 2 and CMEMS-2 Phase 1.

Responsible of the WAVE global product in CMEMS-1 In Situ TAC Phase 1 and 2 and and CMEMS-2 Phase.

Product Quality Manager in CMEMS-1 In Situ TAC Phase 2.

Puertos del Estado

Spanish Deep Water Buoy Network manager since 2008

NETWORKS AND MEMBERSHIPS

EuroGOOS Data Management Exchange and Quality (DataMEQ) working group

EuroGOOS Fixed Stations Task Team

IBI-ROOS and MONGOOS (regional alliances of EuroGOOS)

PUBLICATIONS

[2024]

■ Lorente, P., de Alfonso, M., Gil, P., Manzano, F., Matulka, A. M., Pérez-Gómez, B., Pérez-Rubio, S., and Ruiz, M. I.: Monitoring the record-breaking wave event in Melilla harbour (SW Mediterranean Sea), in: 8th edition of the Copernicus Ocean State Report (OSR8), edited by: von Schuckmann, K., Moreira, L., Grégoire, M., Marcos, M., Staneva, J., Brasseur, P., Garric, G., Lionello, P., Karstensen, J., and Neukermans, G., Copernicus Publications, State Planet, 4-osr8, 19.

[2024]

■ Juza, M., de Alfonso, M., and Fernández-Mora, Á.: Coastal ocean response during the unprecedented marine heatwaves in the western Mediterranean in 2022, in: 8th edition of the Copernicus Ocean State Report (OSR8), edited by: von Schuckmann, K., Moreira, L., Grégoire, M., Marcos, M., Staneva, J., Brasseur, P., Garric, G., Lionello, P., Karstensen, J., and Neukermans, G., Copernicus Publications, State Planet, 4-osr8, 14.

[2023]

■ Jue Lin-Ye, Pérez Gómez B, Gallardo A, Manzano F, Alfonso M, Bradshaw E, Hibbert A. Delayed-mode reprocessing of in situ sea level data for the Copernicus Marine Service. Preprint egusphere-2023-733

[2022]

■ E. Alvarez-Fanjul, B. Pérez Gómez, M. de Alfonso Alonso-Muñoyerro, P. Lorente, et al. Western Mediterranean record-breaking storm Gloria: An integrated assessment based on models and observations.

In: von Schuckmann K. et al. (2022), Copernicus Ocean State Report, issue 6 Journal of Operational Oceanography.

[2021]

■ S. Gracia, J. Olivito, J. Resano, B. Martin-del-Brio, M. de Alfonso, E. Álvarez. 2021. Improving accuracy on wave height estimation through machine learning techniques. Ocean Engineering, 108699,ISSN 0029-8018.

[2021]

■ de Alfonso M, Lin-Ye J, García-Valdecasas JM, Pérez-Rubio S, Luna MY, Santos-Muñoz D, Ruiz MI, Pérez-Gómez B and Álvarez-Fanjul E. 2021. Storm Gloria: Sea State Evolution Based on in situ Measurements and Modeled Data and Its Impact on Extreme Values. Front. Mar. Sci. 8:646873.

[2021]

■ Onorato M, Cavaleri L, Randoux S, Suret P, de Alfonso M, Ruiz MI, Benetazzo A. Observation of a giant nonlinear wave-packet on the surface of the ocean. Sci Rep 11, 23606

[2020]

■ Molina-Sanchez, Rafael, Álvaro Campos, Marta de Alfonso, Francisco J. de los Santos, Pablo Rodríguez-Rubio, Susana Pérez-Rubio, Alberto Camarero-Orive, and Enrique Álvarez-Fanjul. 2020. Assessing Operability on Berthed Ships. Common Approaches, Present and Future Lines. Journal of Marine Science and Engineering 8, no. 4: 255.

[2020]

■ De Alfonso M., García-Valdecasas JM,, Aznar R, Pérez-Gómez B., Rodríguez P., de los Santos FJ and Álvarez-Fanjul E. 2020. Record wave storm in the Gulf of Cadiz over the past 20 years and its impact on harbours in Copernicus Marine Service Ocean State Report, Issue 4, Journal of Operational Oceanography, 13:sup1, Section 4.6, S137-S144,

[2019]

■ Le Traon PY, Reppucci A, Alvarez Fanjul E, Aouf L, Behrens A, Belmonte M, Bentamy A, Bertino L, Brando VE, Kreiner MB, Benkiran M, Carval T, Ciliberti SA, Claustre H, Clementi E, Coppini G, Cossarini G, De Alfonso Alonso-Muñoyerro M, et al. 2019. From Observation to Information and Users: The Copernicus Marine Service Perspective. Front. Mar. Sci. 6:234.

[2019]

■ Álvarez-Fanjul E, dePascual Collar A, Pérez Gómez B, De Alfonso M, et al. 2019. Sea level, sea surface temperature and SWH extreme percentiles: combined analysis from model results and in situ observations In: Copernicus Marine Service Ocean State Report, Issue 3, Journal of Operational Oceanography, 12:sup1, Section 2.7. S31-S39.

[2018]

■ Pérez Gómez B, De Alfonso M., Zacharioudaki A., Pérez González I., Álvarez Fanjul E., Müller M., Marcos M., Manzano F., Korres G., Ravdas M., Tamm S. 2018. Sea level, SST and waves: extremes variability. In: Copernicus Marine Service Ocean State Report, Issue 2, Journal of Operational Oceanography, 11:sup1, Chap. 3.1, s79-s88.

[2018]

■ Lorente, Pablo, Marcos G. Sotillo, Lotfi Aouf, Arancha Amo-Baladrón, Ernesto Barrera, Alice Dalphinnet, Cristina Toledano, Romain Rainaud, Marta De Alfonso, Silvia Piedracoba, Ana Basañez, Jose M. García-Valdecasas, Vicente Pérez-Muñuzuri, and Enrique Álvarez-Fanjul. 2018. "Extreme Wave Height Events in NW Spain: A Combined Multi-Sensor and Model Approach" Remote Sensing 10, no. 1: 1.