

# JHON FREDY MOJICA MONCADA

## PhD. Physical Oceanography

### RELEVANT PEER-REVIEWED PUBLICATIONS

**Jhon F. Mojica**, David M. Holland, Julio Monroy. (2021). Submesoscale mixing features in the Gerlache Strait Bays (Antarctica). *Invemar Bulletin. Antarctic special number*. <http://boletin.invemar.org.co:8085/ojs/index.php/boletin/article/view/934>

Diego F. Mojica-Moncada, Carlos Cárdenas, Cedomir Marangunic, **Jhon F. Mojica-Moncada**, David Holland, Fabian Brondi and Gino Casassa. (2021). Study of the Lange Glacier and its impact on climate change in the Admiralty Bay, Antarctica. *Invemar*. <http://boletin.invemar.org.co:8085/ojs/index.php/boletin/article/view/949>

**Jhon F. Mojica**, Georges Djoumna, David Holland, Denise Holland. (2020). Interannual summer mixing processes in the Ilulissat Icefjord, Greenland. *Journal of Marine Systems*, 214, 103476. <https://doi.org/10.1016/j.jmarsys.2020.103476>.

**Jhon Mojica**, Daiane Faller, Clare Eayrs, Diana Francis, David Holland. (2019). Characterization of Ocean Mixing and Dynamics during the 2017 Maud Rise Polynya event. *Ocean Sciences Discussion*. <http://doi.org/10.5194/os-2019-41>

Gremion G., Casado, M., Aho, K., Caccavo, J. A., Champollion, N., Choy, E., Connors, S. L., Dey, R., Fernandez, A., Fugmann, G., Höfer, J., Jawak, S., Lizotte, M., Maes, S., Mayers, K., Mintenbeck, K., **Mojica, J. F.**, Pandit, P., Poloczanska, E., Rosenbaum, P., Seyboth, E., Shakil, S., van Soest, M., (2019). What Peer-review Experiences Can Offer To Early Career Researchers And To The Scientific Community. *Proceeding of YESS conference*.

<https://doi.org/10.5194/egusphere-egu2020-16812>

Vichi, M., Eayrs, C., Alberello, A., Bekker, A., Bennetts, L., Holland, D., **Mojica J.**, et al. (2019). Effects of an explosive polar cyclone crossing the Antarctic marginal ice zone. *Geophysical Research Letters*, 46. <https://doi.org/10.1029/2019GL082457>

**Jhon F. Mojica**; Valentí Sallarès; Berta Biescas (2018). High- resolution diapycnal mixing map of the Alboran Sea thermocline from seismic reflection images. *Ocean Sciences (EGU)*. (2018). <https://doi.org/10.5194/os-14-403-2018>

Valentí Sallarès; **Jhon F. Mojica**; Berta Biescas, Dirk Klaeschen, Eulalia Gràcia. (2016). Characterization of the sub-mesoscale energy cascade in the Alboran Sea thermocline from spectral analysis of high-resolution MCS data. *Geophysical Research Letters* 43. <https://doi.org/10.1002/2016GL069782>

## INTERNATIONAL PRESENTATIONS, CONFERENCES

**Study of the Lange Glacier King George Island, Antarctic Peninsula.** *Jhon F. Mojica*, Diego Mojica, David Holland, Carlos Cardenas, Cedomir Marangunic, Fabian Brondi and Gino Casassa. *APECS Opening Doors 2020, Online. May 20, 2020.* | zoom | **Oral.**

**Characterization of Ocean Mixing during the 2017 Weddell Polynya Event.** *Jhon F. Mojica*, Daiane Faller, Diana Francis, Clare Eayrs, David Holland. *ISAES 2019, Incheon, South Korea.* From: 22/07/2019 to 26/07/2019. | Songdo Convensia | **Poster.**

**Interannual sub-mesoscale mixing processes at the subsurface layer on a sill Fjord: Ilulissat Case. Greenland.** *Jhon F. Mojica*, Georges Djoumna, Diana Francis, David Holland. EGU 2018, Vienna, Austria. April 2018. | Austria Center Vienna | **Porter.**  
**High-resolution diapycnal mixing map of the Alboran Sea thermocline from seismic reflection images.** *Jhon Mojica*, Valentí Sallarès, Berta Biescas. EGU 2018, Vienna, Austria. From: 8/04/2018 to 13/04/2018. | Austria Center Vienna | **PICO.**

**Characterization of the sub-mesoscale energy cascade in the Alboran Sea thermocline from spectral analysis of high-resolution MCS data.** *Jhon Mojica*, Valentí Sallarès, Berta Biescas. 48<sup>th</sup> Colloquium Submesoscale Processes, Liege, Belgium. From: 23/05/2016 to 27/05/2016. | University of Liege | **Oral.**

**Characterization of the energy cascade in the thermocline using high resolution multichannel seismic data.** *Jhon Mojica*. Valentí Sallarès, Berta Biescas, Guillermo Bornstein. III Encuentro de la Oceanografía Física Española, La palma de Gran Canaria, Spain. From 11/06/2014 to 13/06/2014. | University las palmas de Gran Canaria | **Oral.**

**Characterization of the energy cascade using high resolution multichannel seismic data.** *Mojica, J.*; Sallares, V; Biescas, B.,Klaeschen, D., Bornstein, G. International Congress, Ocean Sciences Meeting 2014, Honolulu, Hawaii, USA, From 23 to 28 February 2014. | American Geophysical Union | **Poster.**

**Exploration of the California Current System with Seismic Oceanography.** Berta Biescas Gorriz; **Jhon Fredy Mojica Moncada**; et. al., American Geophysical Union Fall Meeting 2012, San Francisco, United States of America, **Poster.**

## SCI COLLABORATIONS

Berta Biescas Gorriz; Barry Ruddick; Mladen Nedimovic; Valentí Sallarès Casas; Guillermo Bornstein Ortega; **Jhon Mojica Moncada.** (2014). Recovery of temperature, salinity, and potential density from ocean reflectivity. *Journal of Geophysical Research-Oceans.* 119 - 5, pp. 3171 - 3184. American Geophysical Union, (2014). ISSN 0148-0227. <https://doi.org/10.1002/2013JC009662>

Direct Temperature and Salinity Acoustic Full Waveform Inversion. Guillermo Bornstein; Berta Biescas; Valentí Sallarès; **Jhon Fredy Mojica.** *Geophysical Research Letters.* 40, pp. 1 – 5. American Geophysical Union, (2013). <https://doi.org/10.1002/grl.50844>