Natural Hazards
and Earth System
Sciences

Open Access

Discussions

NHESSD

Interactive
comment

Interactive comment on "Long-term magnetic anomalies and its possible relationship to the latest Greater Chilean earthquakes in the context of the seismo-electromagnetic theory" *by* Enrique Guillermo Cordaro et al.

Enrique Guillermo Cordaro et al.

plvenegas@uc.cl

Received and published: 12 February 2021

We are pleased that the Reviewer considers that the paper is well written and the results are coherent. Bellow we will be commented point by point the remarks.

In the new version of the manuscript we have explained in more detail our Wavelet analysis as well as the treatment of the signal regarding filtering before to apply the Fourier and Wavelet analysis. Also, we have included the references that the Reviewer was commented. Indeed, we consider that the analysis on of Telesca et al. (2007)

[Printer-friendly version]

[Discussion paper]

is a powerful tool to be implemented for our experimental data, and for sure can be analyzed in more detail. However, it is beyond the scope of the manuscript and we will treat future works.

Thank you for the CWT remarks. In the new version of the manuscript we have added the requested scalograms in the new Figure 5 (as it is shown in suplements) for the vertical components at OSO-Maule, Pil-Iquique and PIL-Illapel. Also, we consider that the spectrogram can also give information, especially, when four filters have been used in order to obtain a candidate lithospheric magnetic variation before perform spectral analysis. That is, almost free-external disturbed data. We will explain these filters in details in methods. Then, we have also kept spectrograms. We have discussed in more detail about the methodology.

Sincerely yours,

Patricio Venegas-Aravena, Enrique Cordaro and David Laroze Pontificia Universidad Católica de Chile Universidad de Chile Universidad de Tarapacá
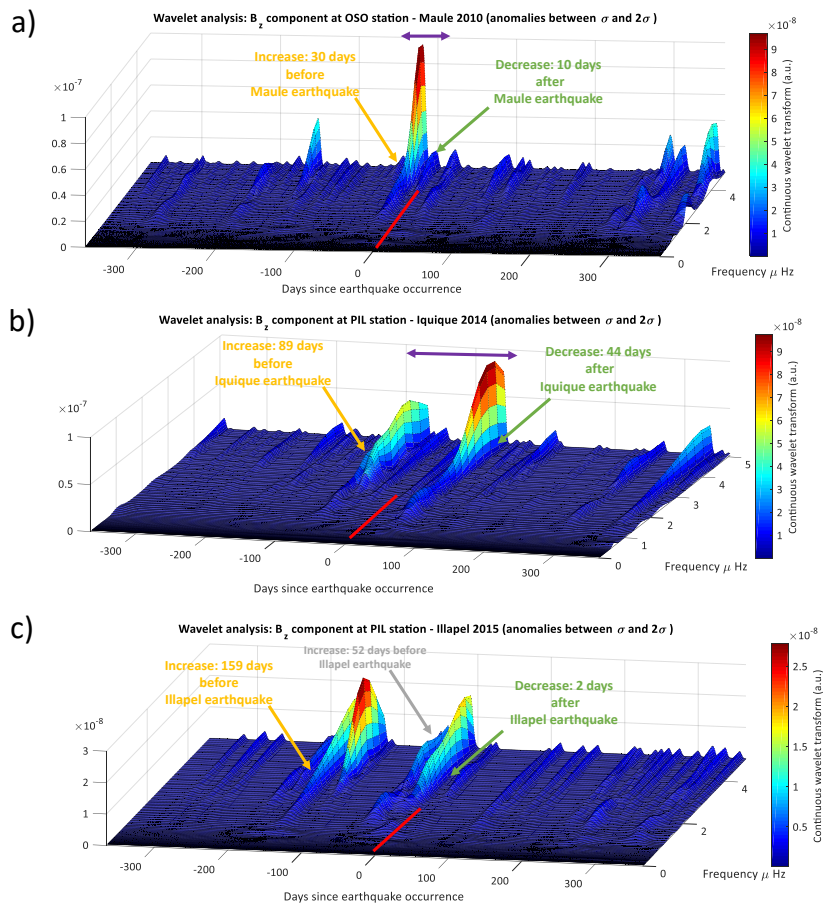

Fig. 1.

Printer-friendly version

Discussion paper