

“Sea current Py mapping v.1.0”: documentation file

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“The minor tool “Sea current Py mapping v.1.0” is realised by RSE SpA thanks to the funding “Fondo di Ricerca per il Sistema Elettrico” within the frame of a Program Agreement between RSE SpA and the Italian Ministry of Economic Development (Ministero dello Sviluppo Economico).”

3. Acknowledgments

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4. Description and references

“Sea current Py mapping v.1.0” (RSE SpA) is a minor tool, which reads a formatted ".nc" file from the free dataset of MetOcean-INGV at www.myocean.eu on daily mean current synoptic-scale velocity (of a given year) and provides the yearly average of the specific power flow of marine currents at the same scale ($P=500(\text{radq}(u_x^2+u_y^2))^3$). The output is both in binary and formatted ".vtk" file format.

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