

Projects of Modeling of the Atmosphere and Solar Radiation (MATRAS) (TEP-220)

Coordinator: Dr. Joaquín Tovar Pescador (jtovar [arroba] ujaen [punto] es)

Banner with images of a sun in space, wind turbines, some clouds, and a view from a satellite of a mountainous area

The “Modeling of the Atmosphere and Solar Radiation (MATRAS)” research group carries out its activity in the field of meteorology and renewable energies.

Ongoing projects

Análisis de las Condiciones Meteorológicas Sinópticas (Promesolar)

Founding entity: Operational Programme 'Andalusia' (ERDF) 2014-2020.

Subsidy Quantity: 67.800€

Duration: 01-01-2020 till 31-12-2021.

Researcher in charge: Antonio David Pozo Vázquez

Finished projects

Mejora de las técnicas de predicción de la radiación solar en escalas de minutos a días (PROSOL)

- Founding entity: Ministry of Science and technology (Spain)
- Subsidy Quantity: 112.500€
- Participating entities: University of Jaén and University of Carlos III of Madrid
- Duration: January 2015 till: December 2018
- Researcher in charge: Antonio David Pozo Vázquez

Desarrollo de un modelo operacional de predicción del recurso solar en escalas de horas a días (SOLCASTING)

- Founding entity: Ministry of Science and Innovation (MICINN). D.G.I., Subdir. Gen. de Proy. de Inv
- Subsidy Quantity: 96.000 €
- Participating entities: University of Jaén and University of Almería.
- Duration: January 2012 till: December 2014
- Researcher in charge: Antonio David Pozo Vázquez

SOLFORRENEW: A comprehensive framework for high-resolution assessment and short-term forecasting of the solar resource for renewable energy applications

- Founding entity: European Union, 7th Framework Programme, Marie Curie Actions IOF
- Subsidy Quantity: 212.870 €
- Participating entities: University of Jaén and NCAR (EE.UU).
- Duration: October 2011 till: December 2014
- Researcher in charge: Antonio David Pozo Vázquez

Evaluación de los recursos energéticos de Andalucía mediante un modelo meteorológico de mesoscala (RENUEVA)

- Founding entity: Andalusian Council for Education and Science, Project of Excellence.
- Subsidy Quantity: 298.000 €
- Participating entities: University of Jaén and University of Almería.
- Duration: January 2008 till: December 2012
- Researcher in charge: Antonio David Pozo Vázquez

Evaluación y predicción de los recursos energéticos solares mediante la integración de técnicas estadísticas, teledetección y modelos de predicción numérica (SOLPREMO)

- Founding entity: Ministry of Science and technology (Spain), Sub. D. G. de Proy. de Inv.:
- Subsidy Quantity: 101.036,30 €
- Participating entities: University of Jaén and University of Almería.
- Duration: January 2008 till: December 2010
- Researcher in charge: J.Tovar