CosmoLAB: the Universe as an educational tool

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"CosmoLAB" is an educational project with the goal of bringing Astronomy and, in particular, the practice of astronomical observation, closer to the educational community of the island so that teachers and students consider the Teide Observatory, the skies of the Canary Islands and the cutting-edge science done in the region as part of their cultural heritage. The project lent different types of telescopes to schools so that they can organize their own observations continuously and autonomously. Before the loan, the teachers complete a course where they learn to mount and use the telescopes. Thematic courses on Astrophysics are also offered, taught by IAC experts, with the aim of allowing direct contact between researchers and teachers and provide access to the latest scientific results. In addition, educational resources based on Inquiry Based learning are presented to the teachers so they can later address these issues in the classroom in a motivating and practical way. Here we present the results and lessons learned during the first two years of the project and we will analyse how these types of initiatives contribute to the improvement of scientific education in the region and how Astronomy can serve as a didactic resource also for other school disciplines.



Gobierno de Canarias Consejería de Educación, Universidades, Cultura y Deportes

13-15 julio 2020

Encourage the educational community in Tenerife to consider the sky and astronomy as part of their cultural heritage.

GOALS

- Teacher workshops in Astronomy
- Donation of astronomical equipment to schools
- Visits to the Teide Observatory
- Development of educational materials
- Continuous communication with the ed. community
- Research on the use of Astronomy as an educational tool



- Teachers from different fields: History, Physics, Art, Biology, Foreign Languages...
- Primary & Secondary schools of Tenerife
- Inquiry learning approach: learning science by doing science
- Impact Assessment: continuous evaluation







Teacher Trainings at the Teide Observatory









Telescopes lent to the schools







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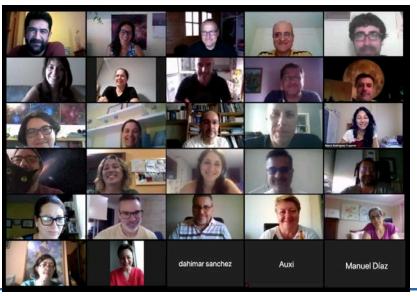
Courses on Astrophysics (researches and science communicators at the IAC)





Adapted to the situation caused by the Covid-19





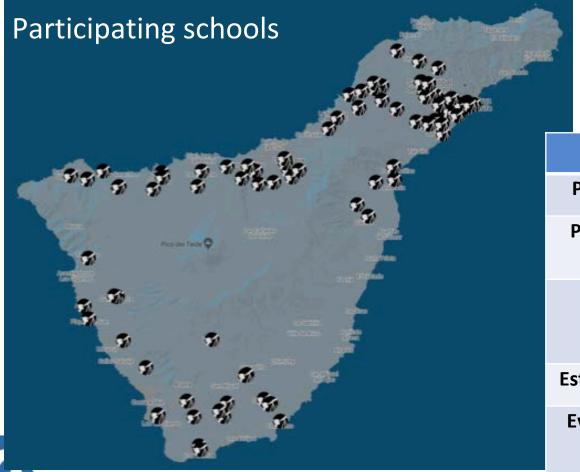
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XIV.0 Reunión Científica

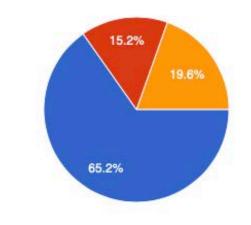
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SEA

Results of two years of project (2018-2020)



¿Has usado los recursos educativos correspondientes a este curso? (Repositorio 1) 46 responses



Si, ocasionalmente
Si, de forma continuada
No, nunca

Categoría	Nº total	Nota
Profesores formados	202	En todos los cursos
Préstamos realizados	44	Telescopios y materiales educativos
Centro educativos participantes	93	En todas las acciones
Estudiantes alcanzados	7.700	En todas las acciones
Eventos astronómicos realizados	14	En centros escolares asociados al proyecto

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