



POLITÉCNICA

escuela técnica superior de
diseño ingeniería
industrial



Proyecto Contadores de Estrellas

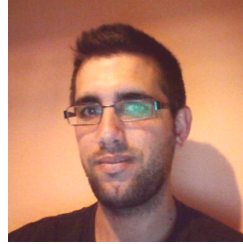
<http://contadoresdeestrellas.github.io>



Equipo



Miquel Serra
Astrónomo



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Estudiante Informática

Programa

11:00h - Presentación del proyecto Contadores de Estrellas

- Presentación de **Miquel Serra**, Astrónomo del IAC y Administrador del Observatorio de El Teide
- Presentación de **Raquel Cedazo**, Informática y Profesora de la ETSIDI
- **Juego de preguntas** – Premio
- Ronda de preguntas



12:00h - Demo

- **Testear** una aplicación del proyecto

Sala de ordenadores ADI 2
3ª planta bloque A

Ciencia ciudadana: *“investigación científica llevada a cabo por una suma de colaboradores, en su totalidad o en parte por científicos y profesionales junto a gente común”*



Muchos proyectos de Ciencia Ciudadana



eBird Goes Global

Connecting birders worldwide

In 2002 a project called eBird launched, giving bird watchers in North America a handy online system for storing their sightings. By keeping them in a single place, it also turned those millions of bird records into raw information available to scientists. Over the last eight years eBirding has really taken off (see box, below). And now we've expanded eBird into Central and South America, we realized that the world is just too big to be covered by a single project. Birders want to keep their sightings under one roof, regardless of what countries they visit. So we responded by building global data entry into our new release, eBird 3.0. It makes eBird one of the largest citizen-science projects in existence—kind of like a never-ending Christmas Bird Count.

We now have the tools to track a globetrotting species like the Barn Swallow across continents and political boundaries, and, as data flow in, for the first time to visualize world bird migration. We hope you'll join us at www.ebird.org, and make your own bird sightings part of the global eBird network, starting today.

Barn Swallows are a great example of eBird global at work. No matter where you live, they're probably familiar—they occur on every continent except Antarctica. eBird now displays worldwide sightings of any bird species. It's still early in eBird's move to global data entry, and this range map (showing actual eBird data) is far from complete. But the spread of purple dots, from Siberia and Alaska clear around to China and Australia, shows the astonishing coverage birders have provided in the few months global data entry has been live.

Adaptability. As eBird becomes more advanced we've been able to customize data entry to meet special demands. During the BP oil disaster, we quickly began allowing Gulf Coast birders to enter sightings of oiled birds directly into eBird.

A warm welcome. In just its first three months, global data entry took off across Europe (where some birders have been requesting it for years). Entries already show Barn Swallows occur across the E.U. With time, added reports will fill in coverage and allow users to explore patterns such as seasonal occurrences, just as you can now with eBird in North America.

Dual benefits. Global data entry has a dual purpose. It helps traveling birders by giving them a single place to compile lists from "trips of a lifetime"—and helping them find hotspots when planning those trips. It benefits scientists and local conservationists, too. They can store and query bird occurrence data without having to build their own database infrastructure or compile sightings. And that's our goal: for eBird to help create conservation value out of everyone's sightings.

Sighting Frequency

- 40-100%
- 25-40%
- 10-25%
- 2-10%
- 0-2%
- No reports

eBird Facts

- Started: 2002
- Registered users: 58,000
- Site visitors last year: 330,000
- Total observations: 39 million
- Total time in the field that represents: 780,000 hours (89 years)
- No. of records in 2010: 13.5 million
- No. of countries represented: 200
- No. of species recorded: 8,630
- Cost: FREE

Start eBirding in three easy steps

It's easy and free to start eBirding. All you need is a list of what you saw, and an Internet connection. Your sightings help scientists improve knowledge and conservation.

1. **Go birding.** Take notes.
2. **Go online to www.ebird.org.** Share what you saw.
3. **Explore.** Browse maps and graphs made with data from thousands of eBirders like you.

www.ebird.org

eBird is a joint project of the Cornell Lab of Ornithology, Audubon, and hundreds of local partner organizations.

Muchos proyectos de Ciencia Ciudadana

ZOO NIVERSE
REAL SCIENCE ONLINE

THE
MILKY WAY
PROJECT

planethunters.org

GALAXY ZOO HUBBLE

SOLAR
STORMWATCH

MOON ZOO

ENGLISH | POLSKI

GALAXY ZOO.org

Hi starstryder | Home | The Science | How to Take Part | Galaxy Analysis | Forum | Press | Blog | FAQ | Links | Contact Us | Logout | Profile

- Galaxy Tutorial
- Galaxy Analysis
- Galaxy Zoo - Thank You
- Show My Galaxies

Galaxy Analysis

Welcome to Galaxy Zoo's view of the Universe. If you're here you should already have seen the [Tutorial](#), but feel free to go and remind yourself. There's no need to agonise for too long over any one image, just make your best guess in each case.

Galaxy Ref: **587729387677679742**

Choose the Galaxy Profile by clicking the buttons below

CLOCK ANTI EDGE ON/UNCLEAR
SPIRAL GALAXY

ELLIPTICAL GALAXY

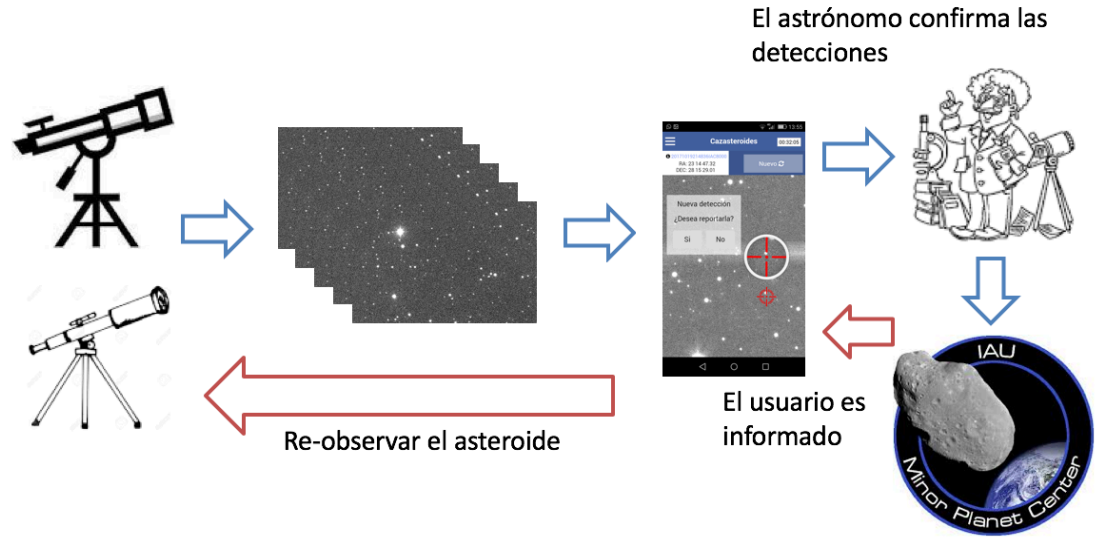
STAR / DON'T KNOW MERGERS

Show Grid Overlay on the next Image





Cazadores de asteroides



<http://cazasteroides.org/>



Y ... Contadores de Estrellas



¿Cuál es el objetivo?

Medir la tasa de actividad de las lluvias de estrellas

¿Por qué?

Obtener información relevante sobre la composición, morfología y dinámica de los cuerpos menores del Sistema Solar

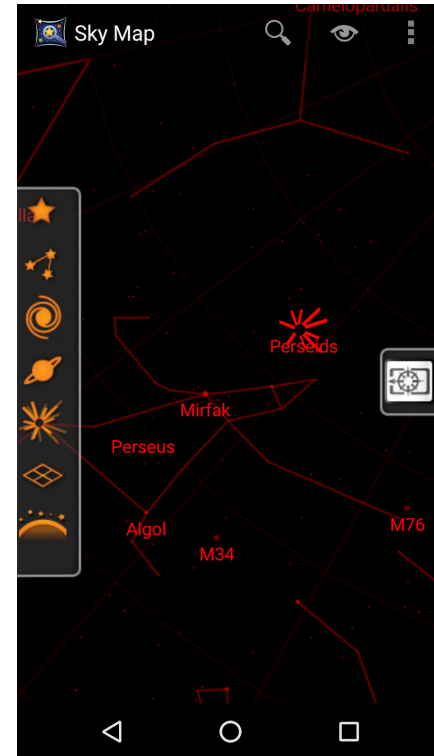
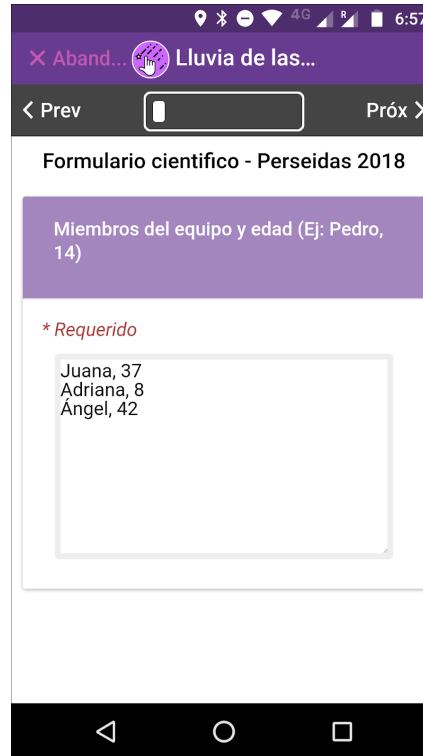
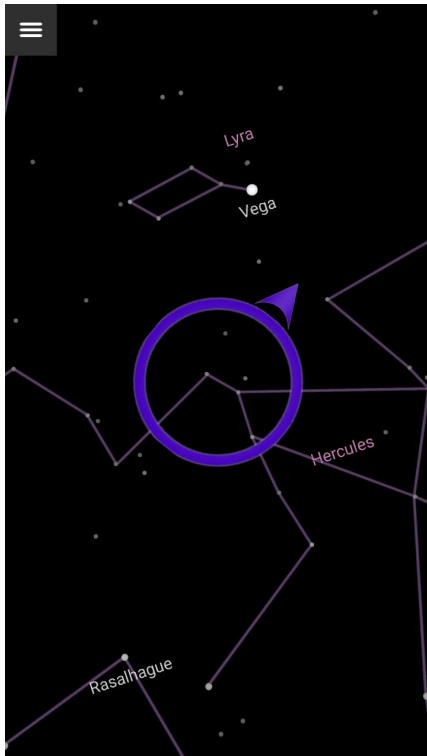
¿Cómo?

La observación visual es la fuente más fiable para la detección de meteoros, pero requiere de una muestra realmente significativa

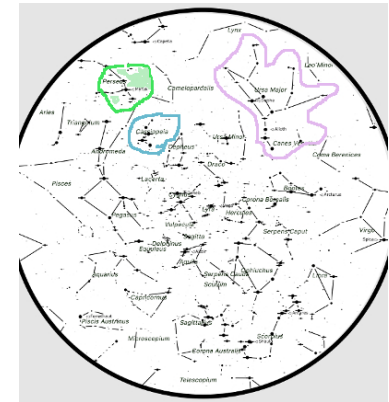
¡Se necesitan muchos observadores!

1. Observaciones visuales

Unidad didáctica "Lluvia de estrellas en familia"



1. Observaciones visuales



2. Retransmisiones en directo



3. Vídeos

¡Busca y dibuja meteoros!



Estrellas fugaces en FullHD - Perseidas 2016

Ver más tarde Compartir

Cambia los parámetros de color y anchura del meteorito y pincha en ENVIAR

ATRÁS

Información del meteorito:

Color:

Anchura:

ENVIAR

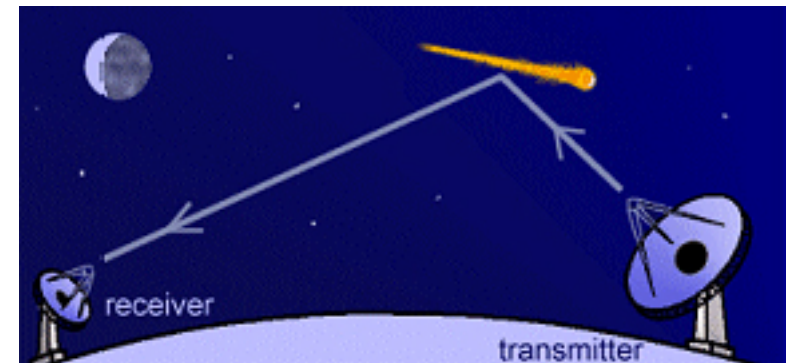
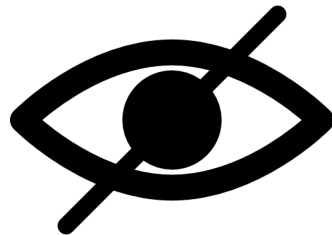
Más info

1:06 / 1:36

YouTube

4. Radiodetección de meteoros

Astronomía accesible



Crédito: SpaceWeather

Conclusiones

- Divulgar la Astronomía entre el público general
- Enseñar a los ciudadanos a hacer el registro de meteoros
- Hacer más accesible la Astronomía para personas invidentes
- Enviar los datos recogidos por los ciudadanos al IMO



Muchas gracias

¡Contamos con vosotros para ayudarnos en estas tareas!

