

Using Scientific Field Campaigns to Learn About Climate Science

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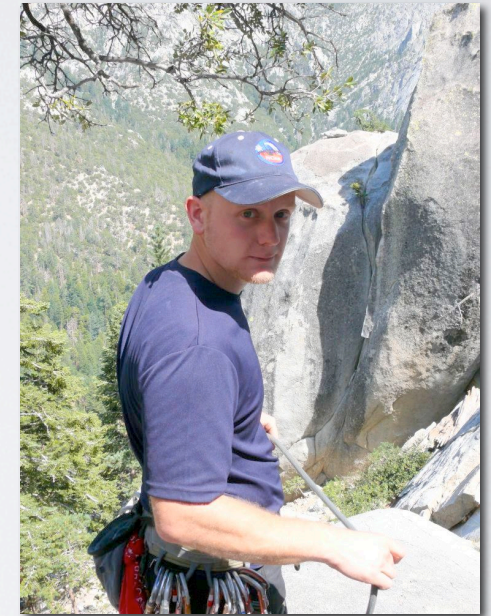


Why?





Adventurous & exciting field of research



Students can relate to scientists in the field



Using modern technology



Cutting-edge research technology



Cutting-edge research technology



Cutting-edge research technology



Cutting-edge research technology



Cutting-edge research technology

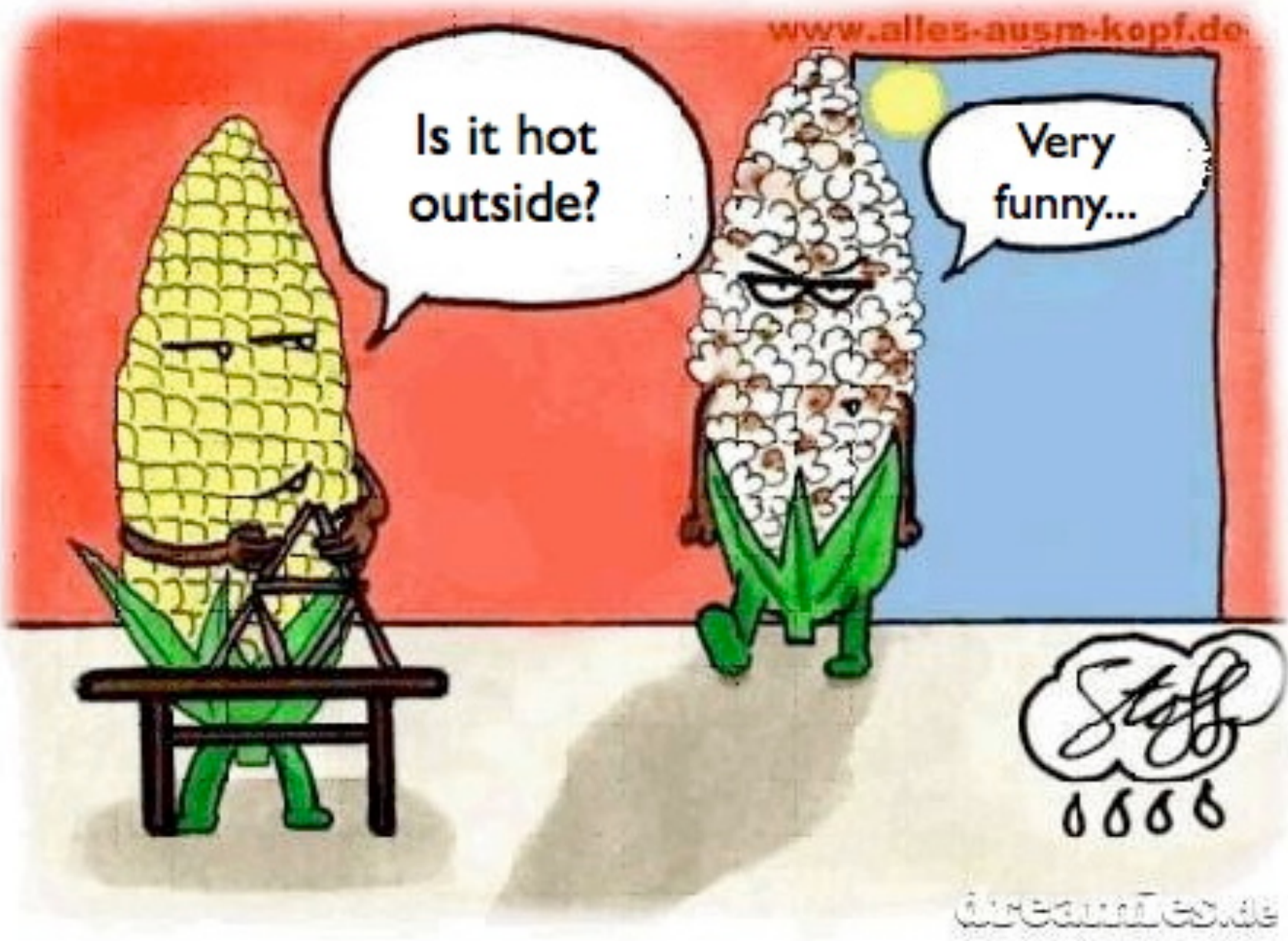


Cutting-edge research technology

An aerial, high-angle photograph of a vast, dense crowd of people, likely at a large public event or festival. The individuals are packed closely together, filling the entire frame. The colors of their clothing create a mosaic of small, multi-colored dots from above.

7 billion
billion

Human influences never experienced before



Everyone can relate to climate & weather



Everyone can relate to climate & weather



Everyone can relate to climate & weather

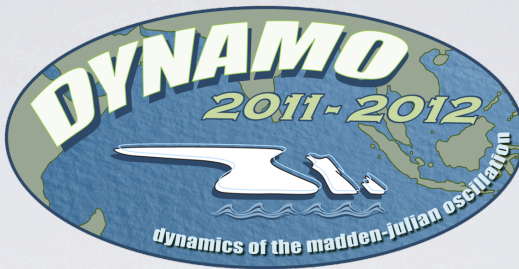


Everyone can relate to climate & weather



Global Atmospheric Field Research Projects

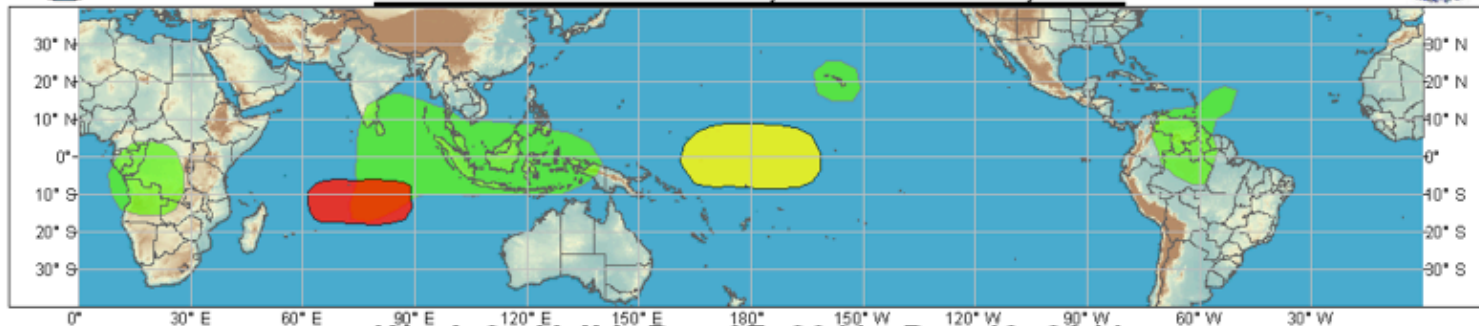




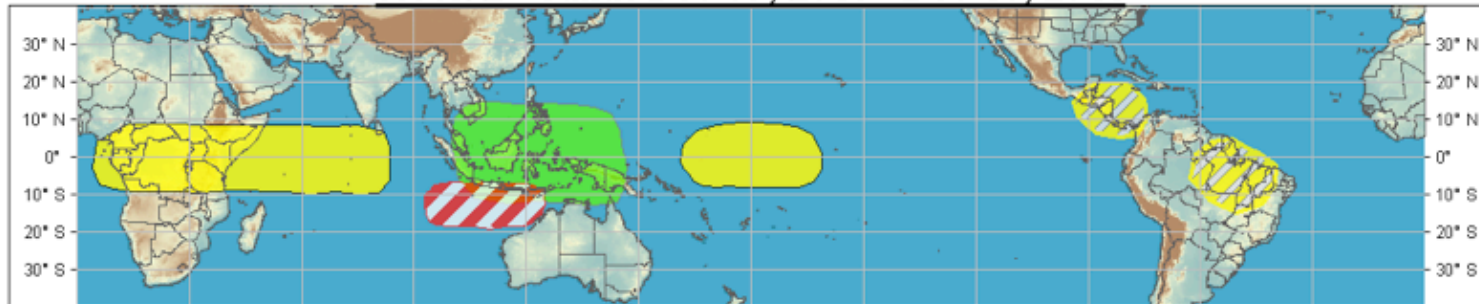
Global Tropical Hazards/Benefits Outlook - Climate Prediction Center



Week 1 - Valid: Nov 30, 2011 - Dec 06, 2011



Week 2 - Valid: Dec 07, 2011 - Dec 13, 2011



Produced: 11/29/2011

		Confidence		
		High	Moderate	
Tropical Cyclone Formation				Development of a tropical cyclone that eventually reaches tropical storm strength.
Above-average rainfall				Weekly total rainfall in the upper third of the historical range.
Below-average rainfall				Weekly total rainfall in the lower third of the historical range.
Above-normal temperatures				7-day mean temperatures in the upper third of the historical range.
Below-normal temperatures				7-day mean temperatures in the lower third of the historical range.

Product is updated once per week. The product targets broad scale conditions integrated over a 7-day period for US interests only. Consult your local responsible forecast agency.



中央氣象局
Central Weather Bureau

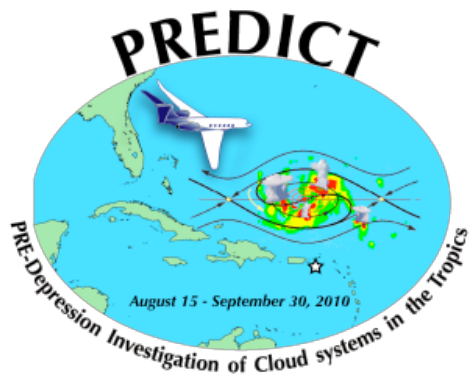


UNIVERSITY AT ALBANY
State University of New York



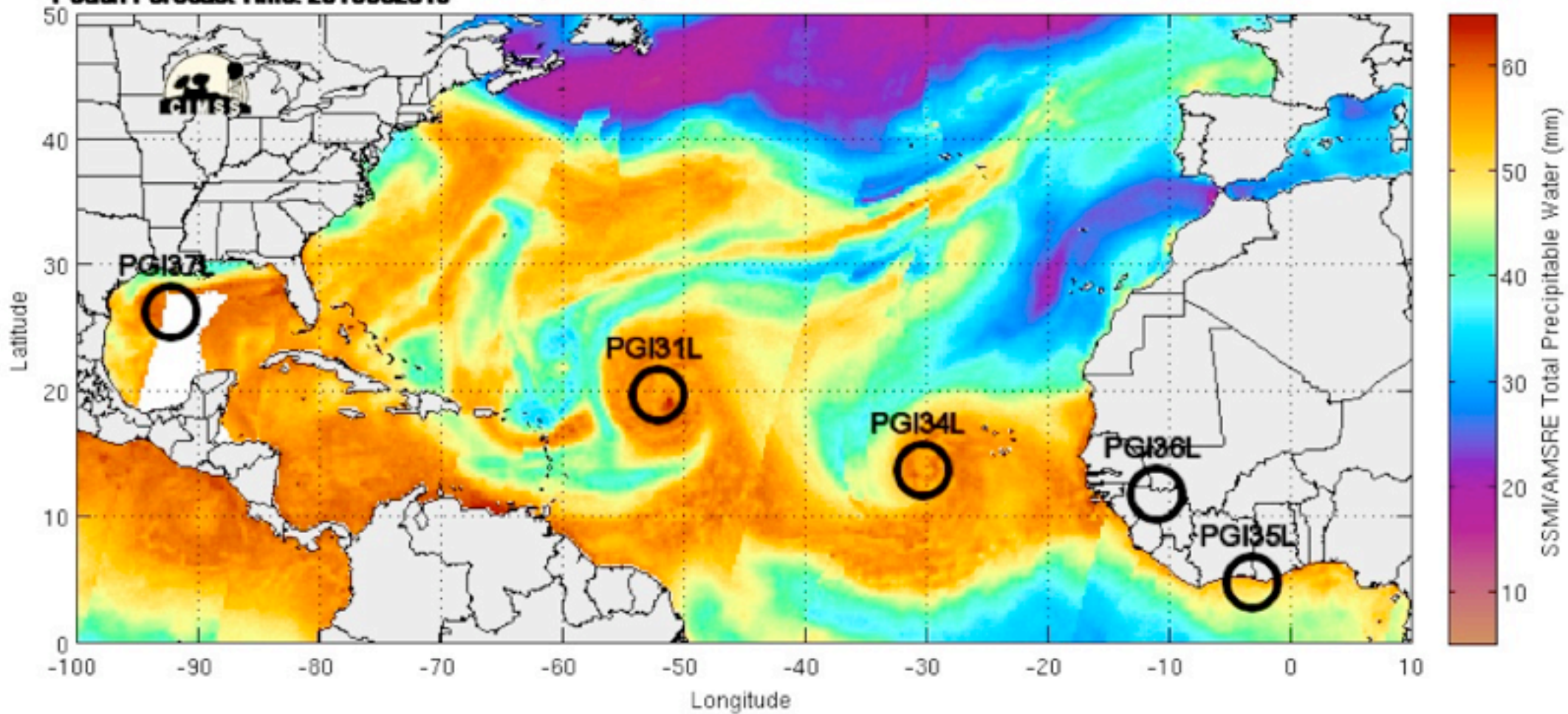
Australian Government
Bureau of Meteorology

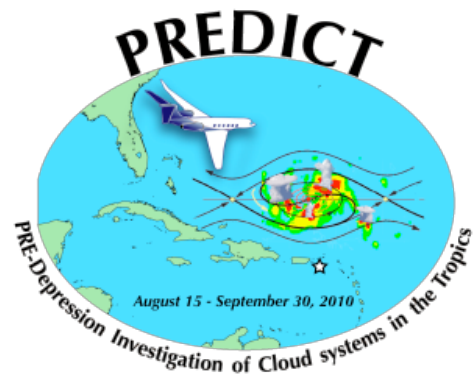


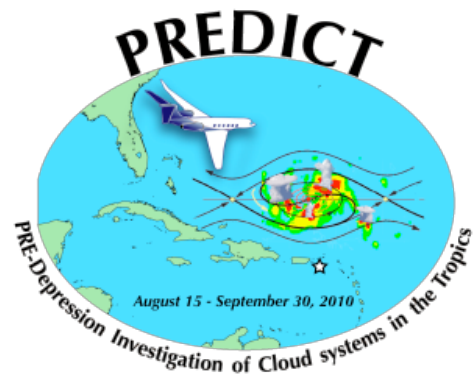


Pouch Forecast Time: 2010082513

Morphed composite: 2010-08-25 10:00:00 UTC







What do bunnies have to do with atmospheric science?



BuFEx

RABBIT PROOF FENCE

The longest fence in the world

The RABBIT PROOF FENCE was built by the government in a desperate bid to hold back the rabbits invading from the east.

The No 1 RABBIT PROOF FENCE commenced in 1901 from Starvation bay, west of Esperance on the south coast, to the Ninety Mile Beach, east of Port Hedland.

By 1904 the rabbits were within the line of No 1 fence, so in April 1904 labour parties were sent out to erect the No 2 fence in sections. The first party commenced in Cunderdin and headed north to meet the No. 1 fence, and the last section was to Point Anne on the South coast, to complete the No. 2 fence in July 1905.

The third fence commenced in 1906 on the West coast from south of Kalbarri to meet the No. 2 fence south of Woogalong. All three fences were completed on 30th OF September 1907.

Total length 2,023 miles (3,236.8km)



THE COST

The total cost of three fences was a massive 337,941 pounds, with 2,023 miles of unbroken fence line.

YARD TRAPS

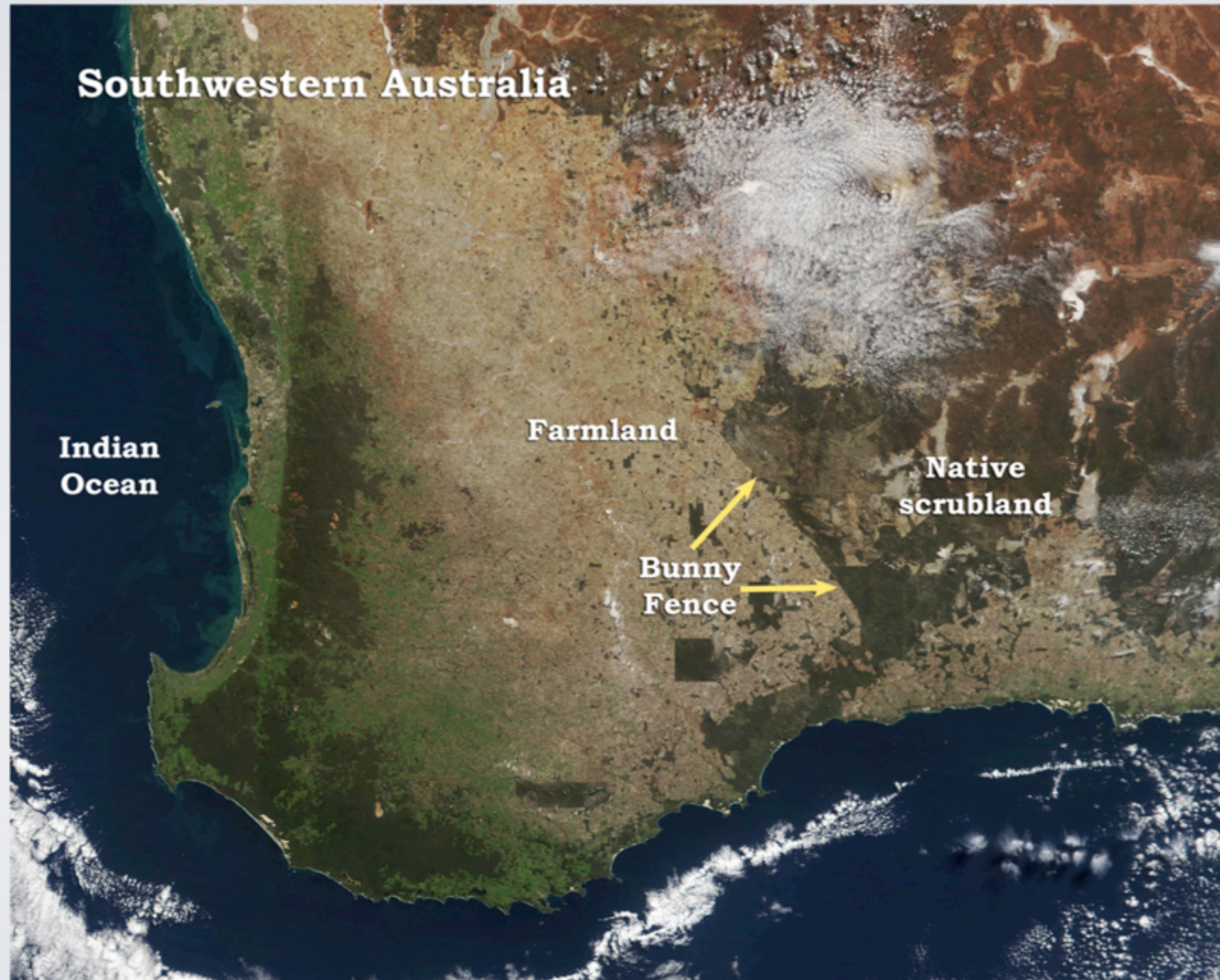
Yard traps similar to this one were built every 5 miles. An effective way to catch the stray rabbits that got through to the west side of the fence. The strayed rabbits would run down the fence line, get caught in the trap wings and enter through the funnel of wire, to the fully enclosed wire trap. Fence riders kept the yard traps clear and maintained the fence line.

You are at No.2 Rabbit Proof Fence, at the number 40 mile post with an original restored YARD TRAP

Funded by the shire of Quairading - a project by Coraling Wamenusking Catchment Group

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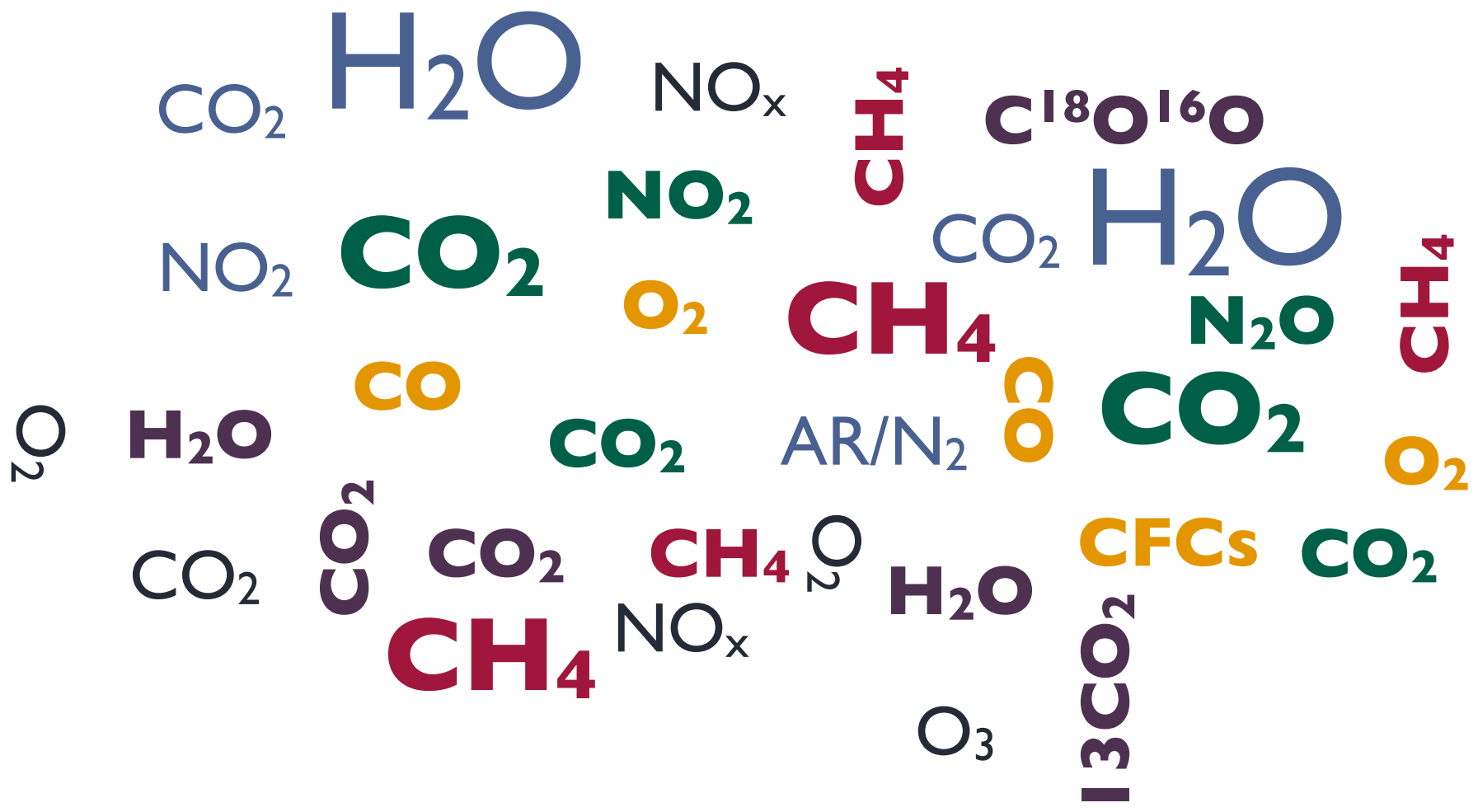
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**Native
Scrubland**
(clouds)

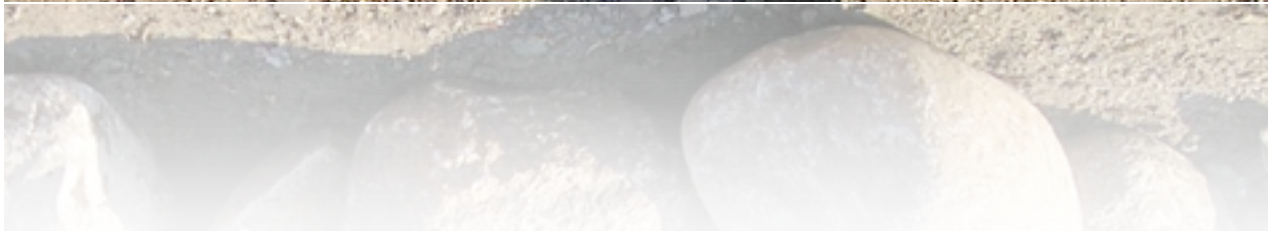
Farmland
(no clouds)

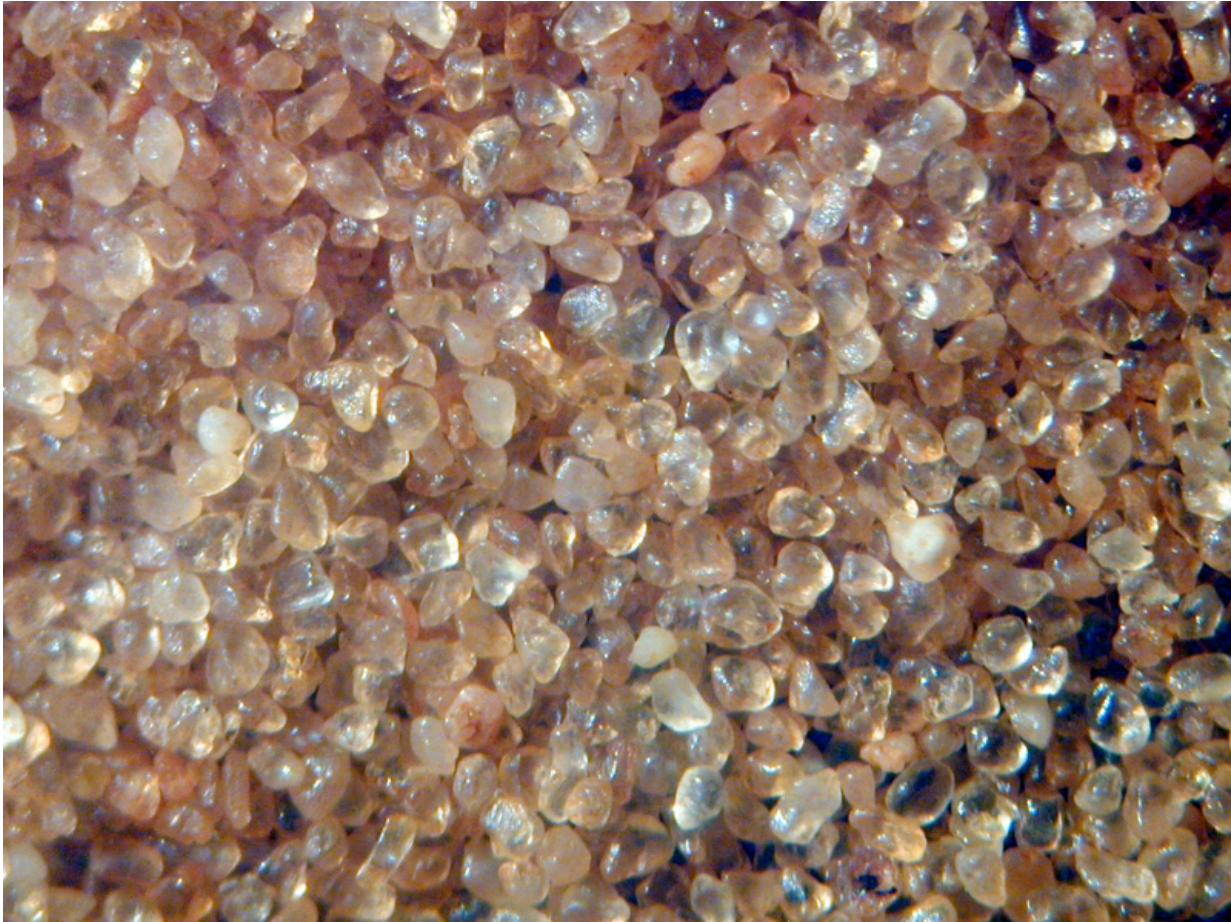
**Rabbit Proof
Fence**

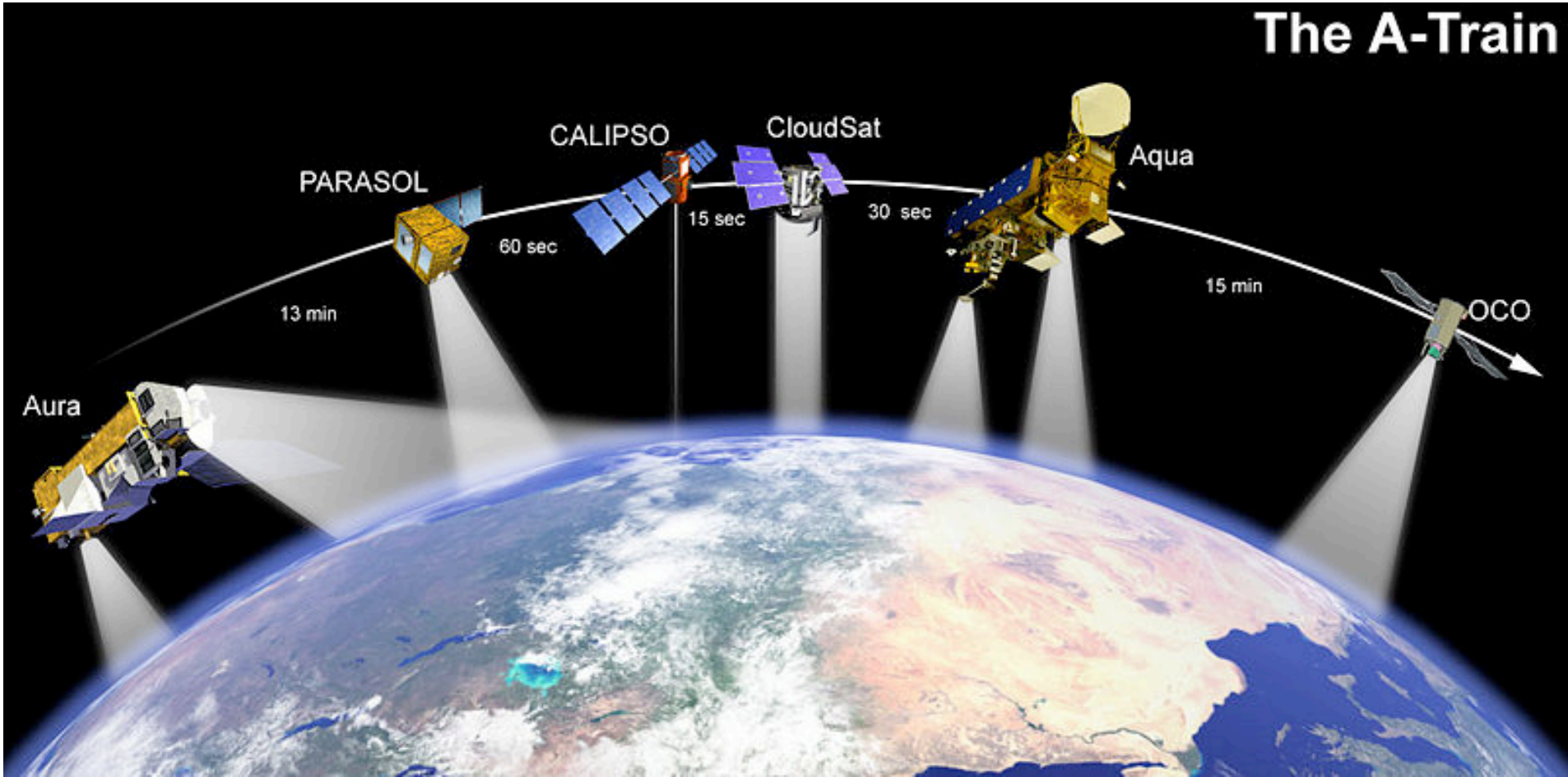


Baseline Data









The A-Train

Aura PARASOL CALIPSO CloudSat Aqua OCO

13 min 60 sec 15 sec 30 sec 15 min



Let's take a tour...

