

A sustainable system of harvesting water for rural communities in Morocco



A map of the Atlantic Ocean showing the Azore Islands, Madeira, Canary Islands, and Cape Verde Islands. A red dot on the African coast is labeled '30 km BOUTMEZGUIDA'. A horizontal line is drawn at 29° N latitude. The ocean is blue, and the land is shown in green and brown tones.

AZORE ISLANDS

MADEIRA

CANARY ISLANDS

**30 km
BOUTMEZGUIDA**

CAPE VERDE ISLANDS

29° N

THE SITE: Boutmezguida Valley



Water Problems / Local Economy





Argania spinosa



The local problems

- The low level of **schooling** of the **children**
- The **difficulty** the **women** have in dedicating their time to more **productive tasks**
- **Health problems** associated with the **bad quality** of the water making it the main vector of diseases

The objectives

- Provide near-by free **good quality drinking** water to poor rural villages in the AntiAtlas Mountains (Morocco)
- **Transform** and empower the **lives of rural women** who devote many hours a day to fetching water, notably in tough conditions.
- Provide sustainable living conditions and a dignified livelihood for entire amazigh communities.

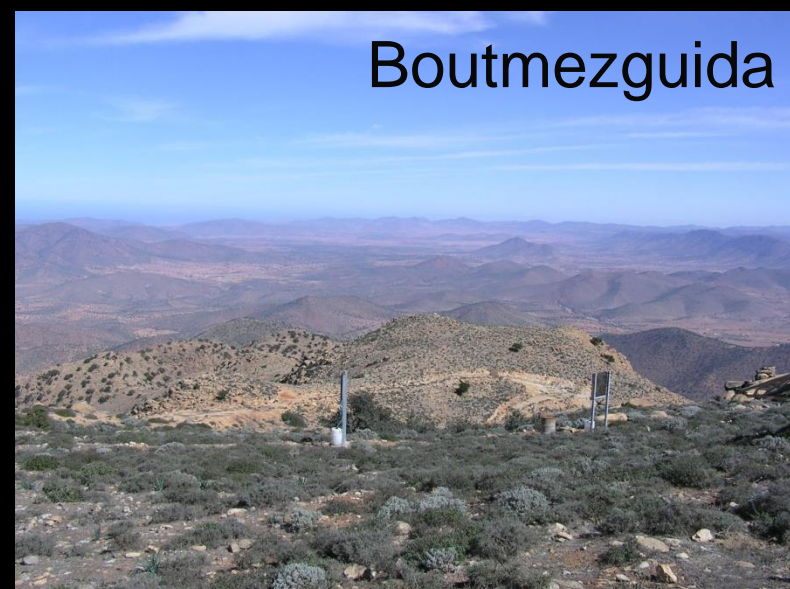
THE EXPERIMENT SITES

Junin 2006

Boutmezguida
1225 m

Boulaalam
300 m

ATLANTIC OCEAN



Jun 2006

300°

340°

June 2006 – September 2009		
N°	ORIENTATION	L/m ² /day
3	300° (WNW)	7,7
4	340° (NW)	10,5

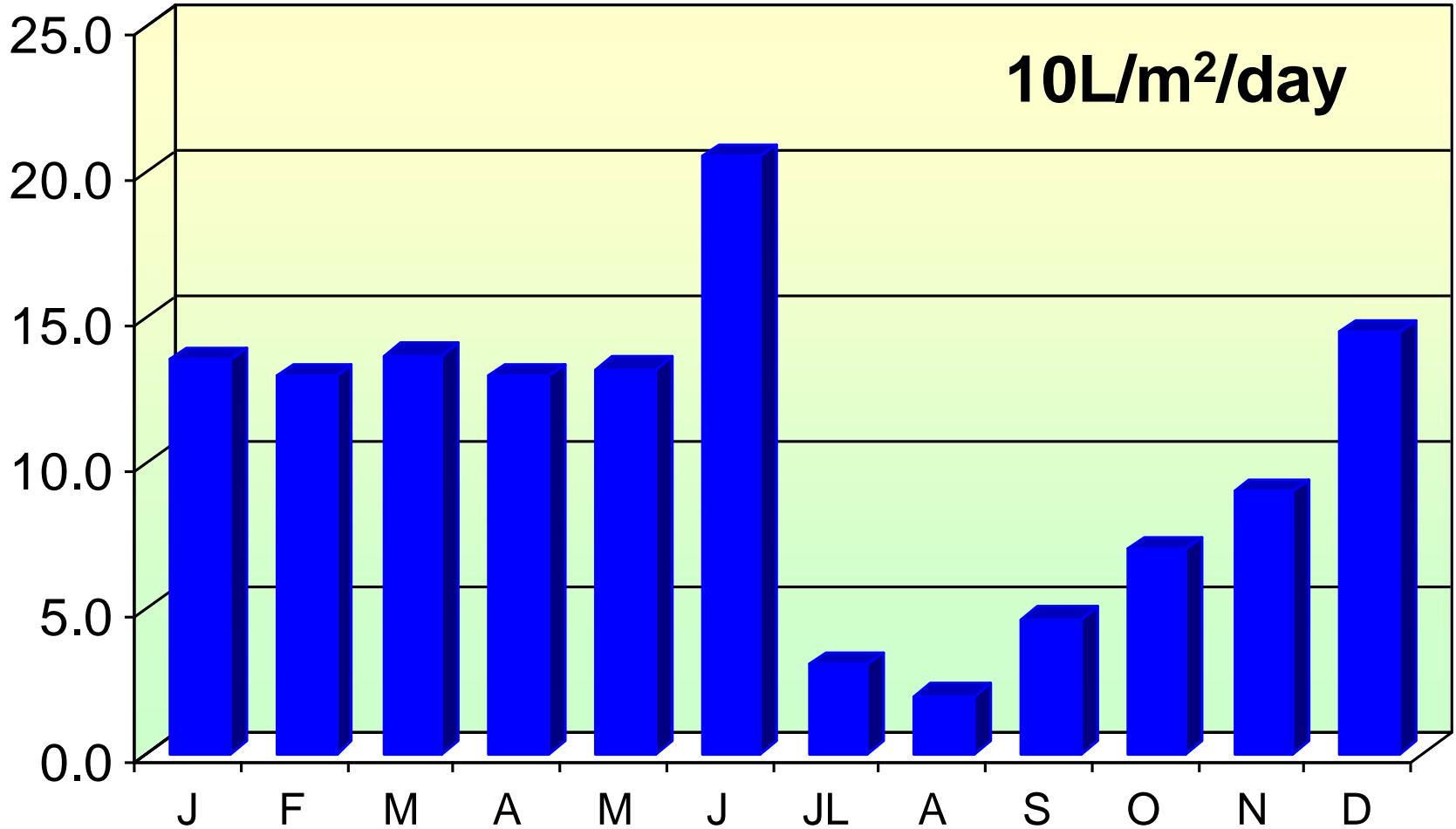
& Cereceda, 1994)

Mean amount of fog water collected

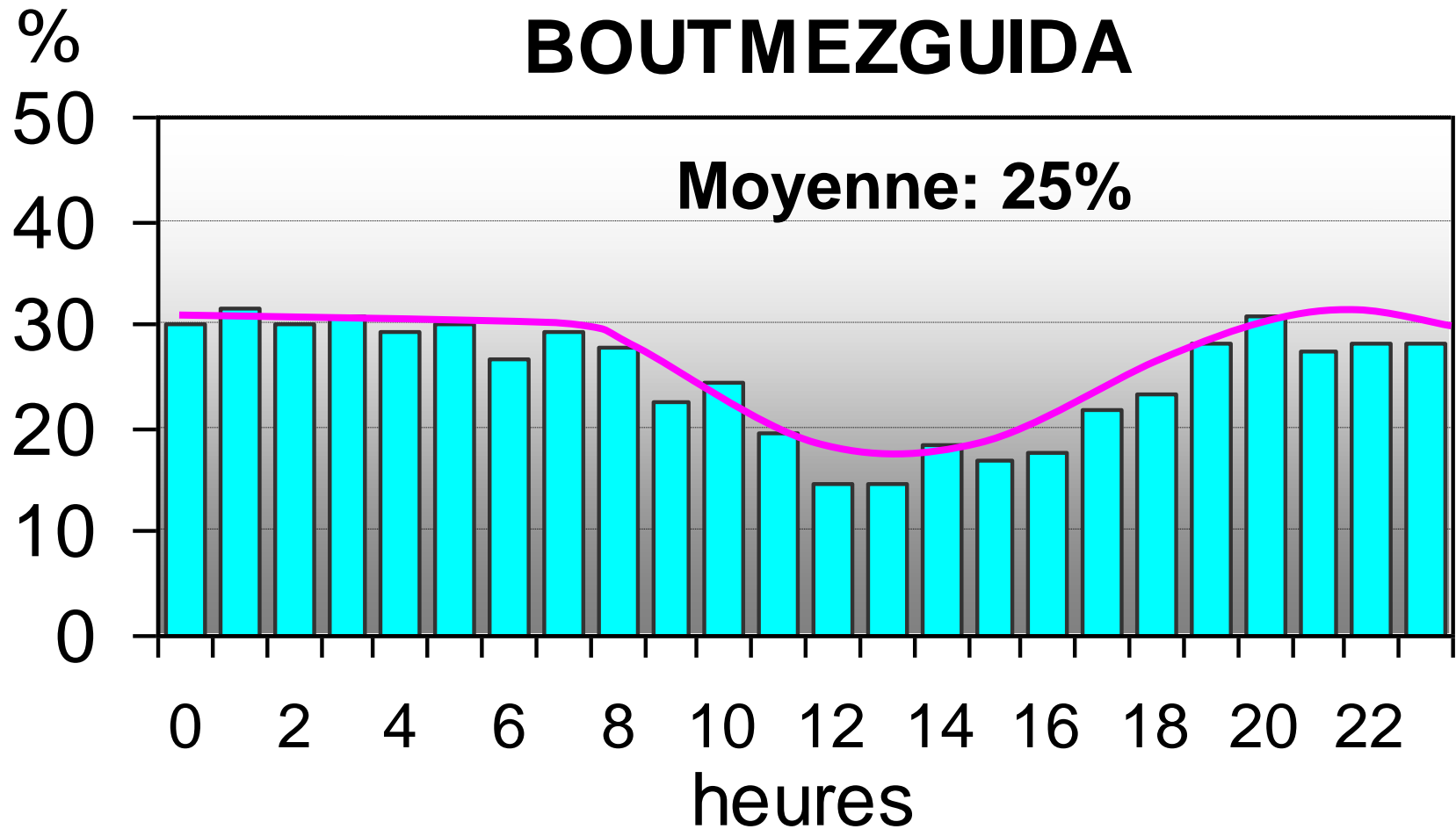
BOUTMEZGUIDA

L/m²/día

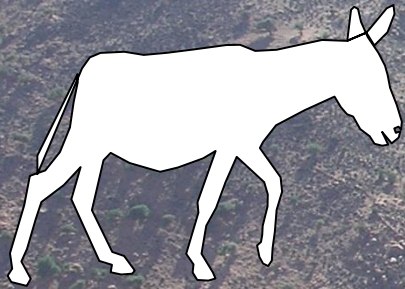
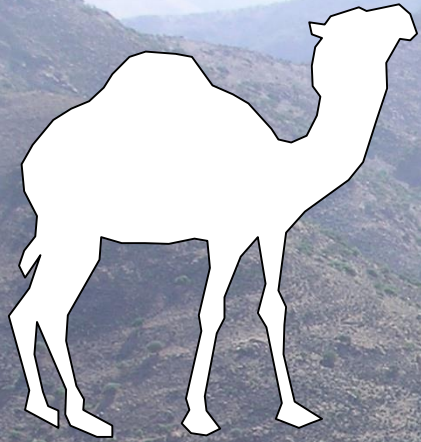
10L/m²/day

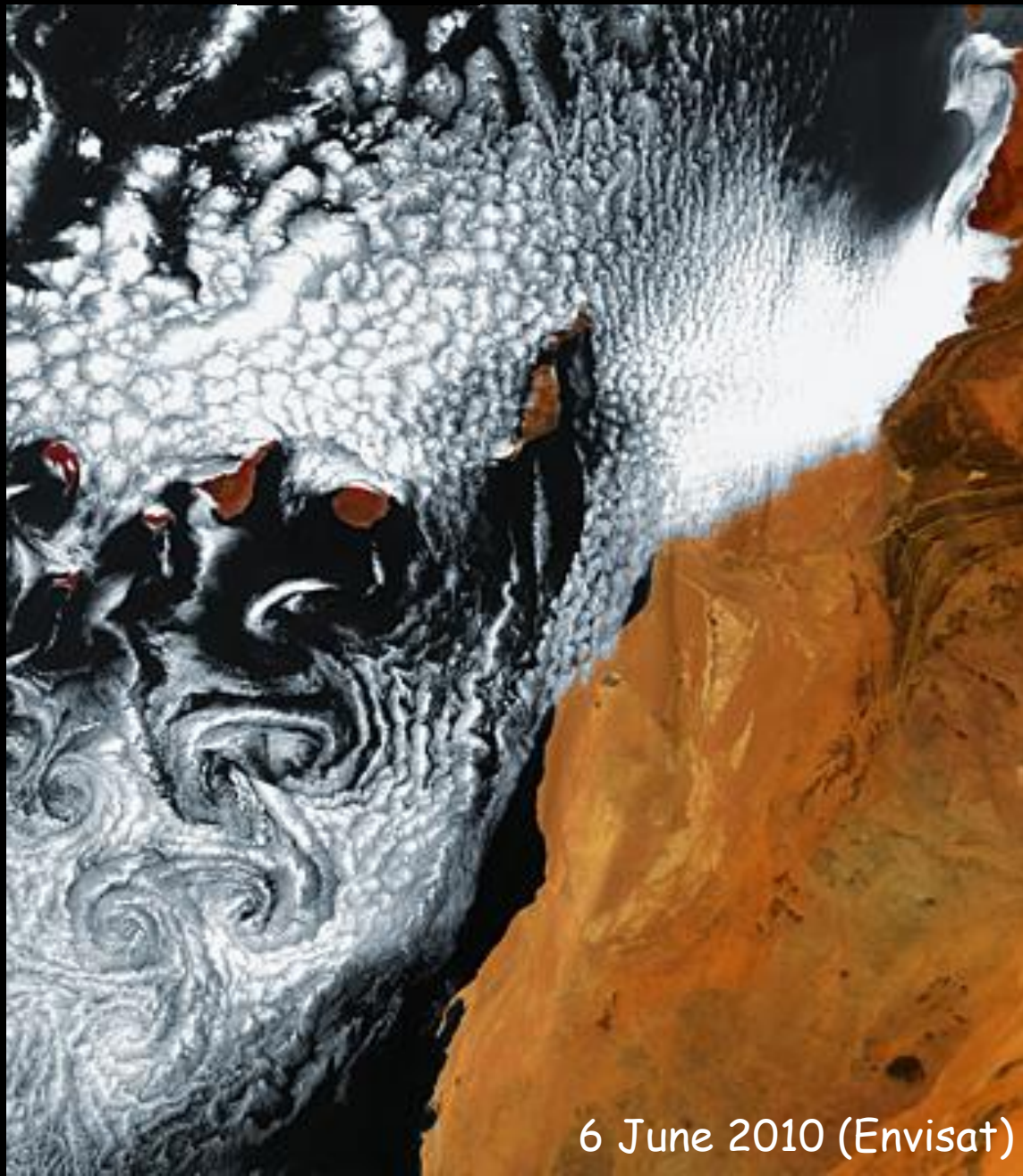


Hourly variations of fog water collection



Pilot Project
38 families
290 people
483 animals





**Merci pour
votre
attention**

**Thanks for
your
attention**

6 June 2010 (Envisat)