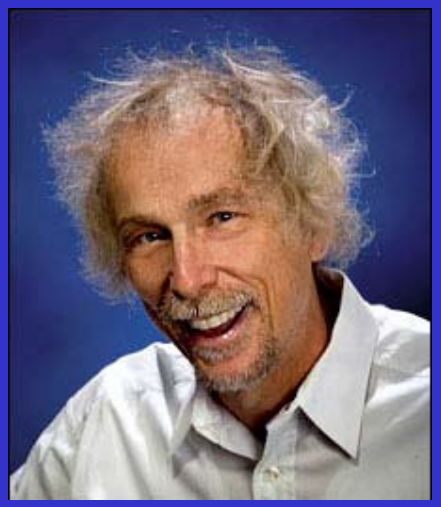
Chief Scientist Report
ARM Science Team Meeting 2009

Warren Wiscombe
ARM Chief Scientist
Brookhaven National Lab

ARM Chief Scientist Team



Andy Vogelmann

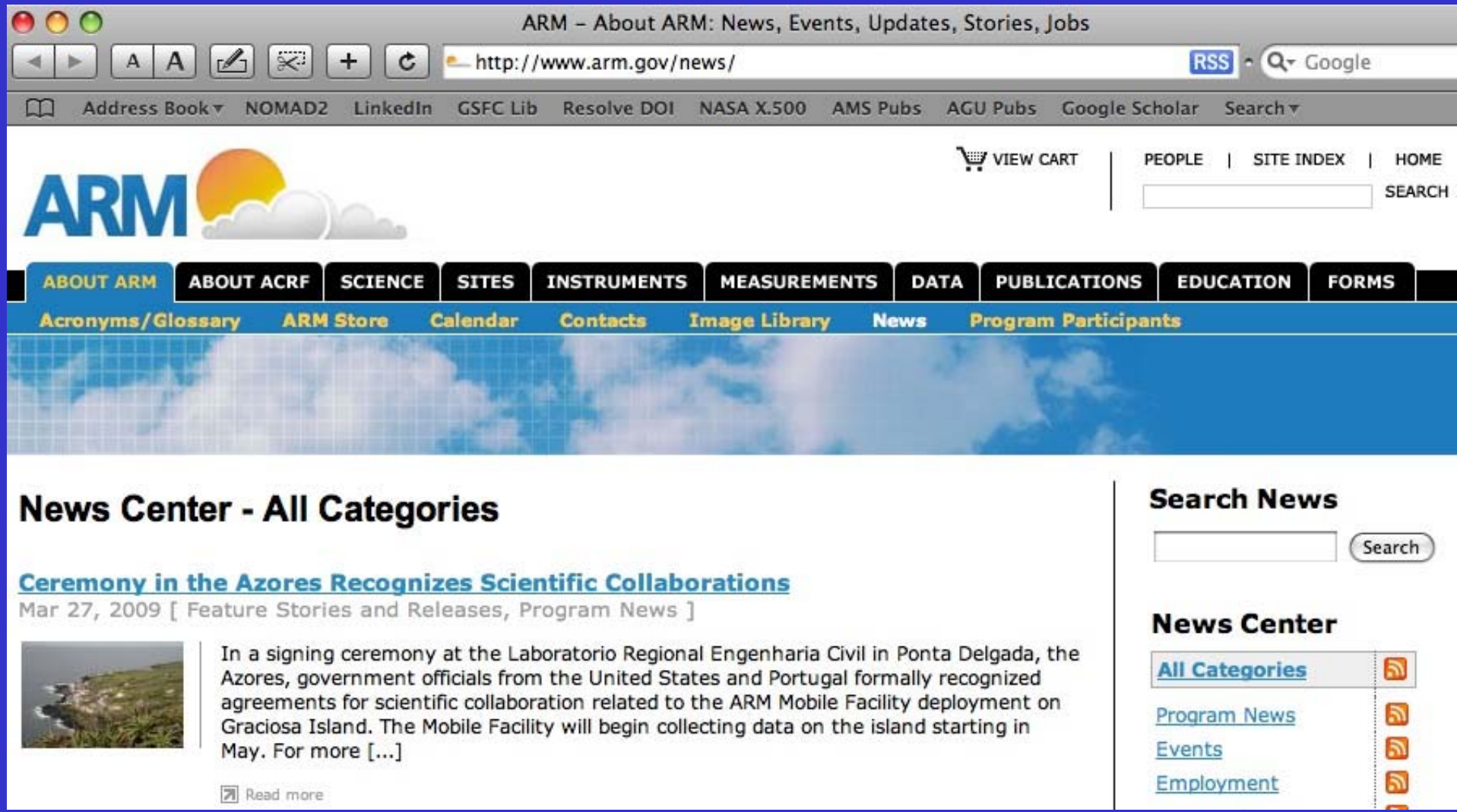
Ric Cederwall

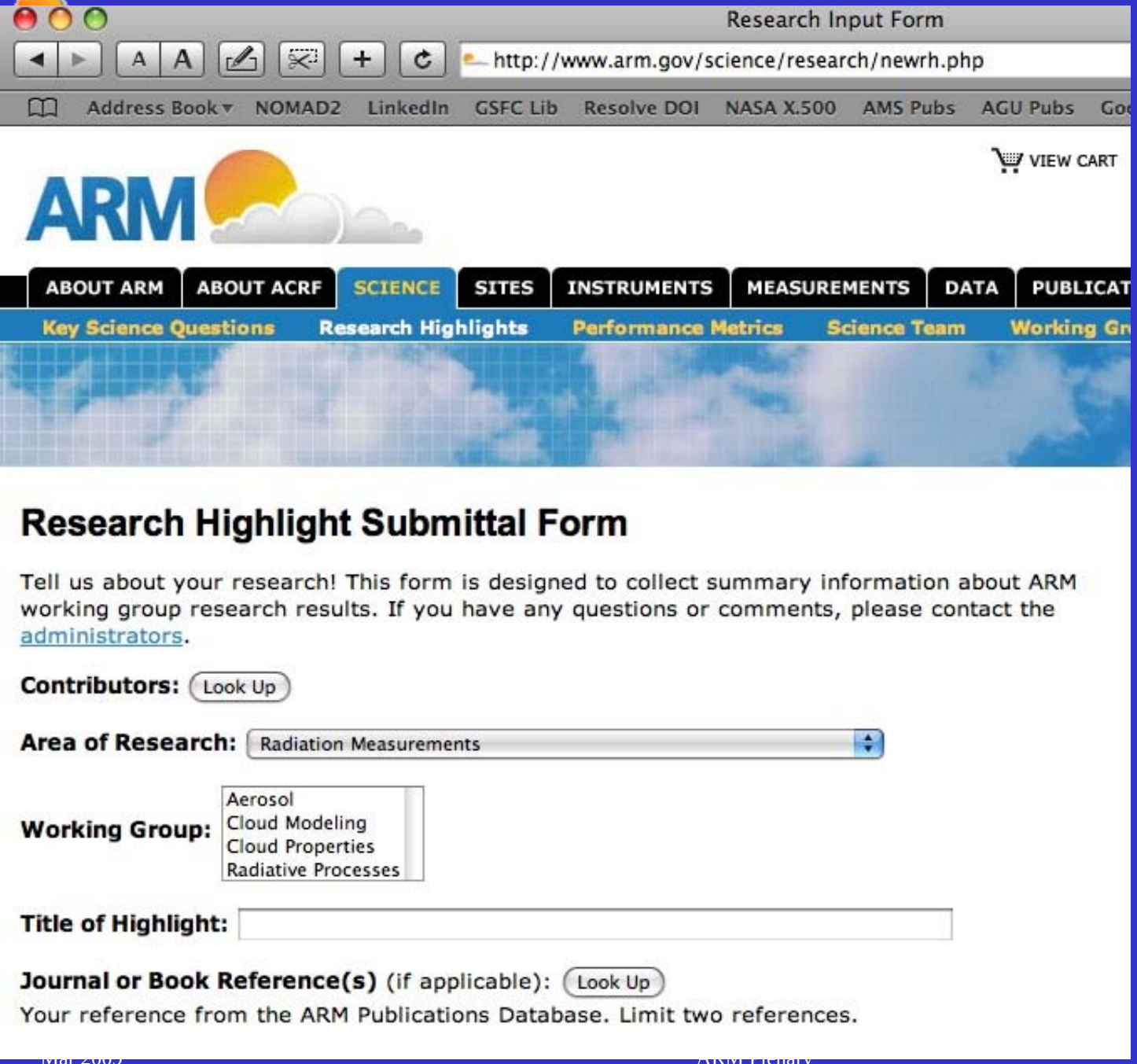
Yangang Liu

Sharon Zuhoski

Pavlos Kollias

www.arm.gov/news (get RSS feed)





ARM highlight entry form

pub entry is simplified and modernized

Poster Awards

10 CS Design Awards, announced Wed morning

People's Choice Award:

Please vote for the best poster you see.

Lobbying for your poster is discouraged.

A brief sampler of ARM accomplishments

Climate Modeling Best Estimate

Cloud fraction from ARM, CAM & GFDL models

ARM Cloud Parametrization & Modeling WG - home - SeaMonkey

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://science.arm.gov/wg/cpm/scm/statistical_summaries.html

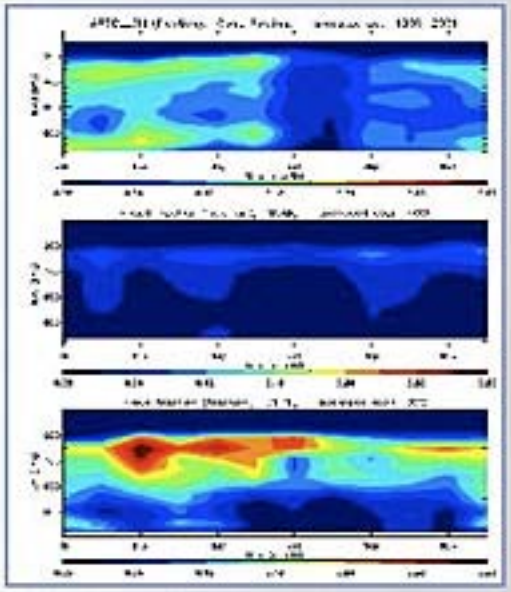
Home Bookmarks Red Hat, Inc. Red Hat Network Support Shop Products Training

Statistical Summaries of ARM data for Climate Modelers

The ARM program collects unique data related to radiation, clouds, water vapor, and aerosols of great value to climate modelers. This web page provides a few sample analyses of multi-year data from the Southern Great Plains site with comparisons to climate model simulations for the same location.

Seasonal Cycle at the Southern Great Plains

Cloud Fraction from the Cloud Radar



ARSCL , CAM and GFDL Cloud Fraction

Explore the data yourself

Would you like to explore the data yourselves?

Browse the Dataset

Quick look plots

Seasonal and diurnal cycle

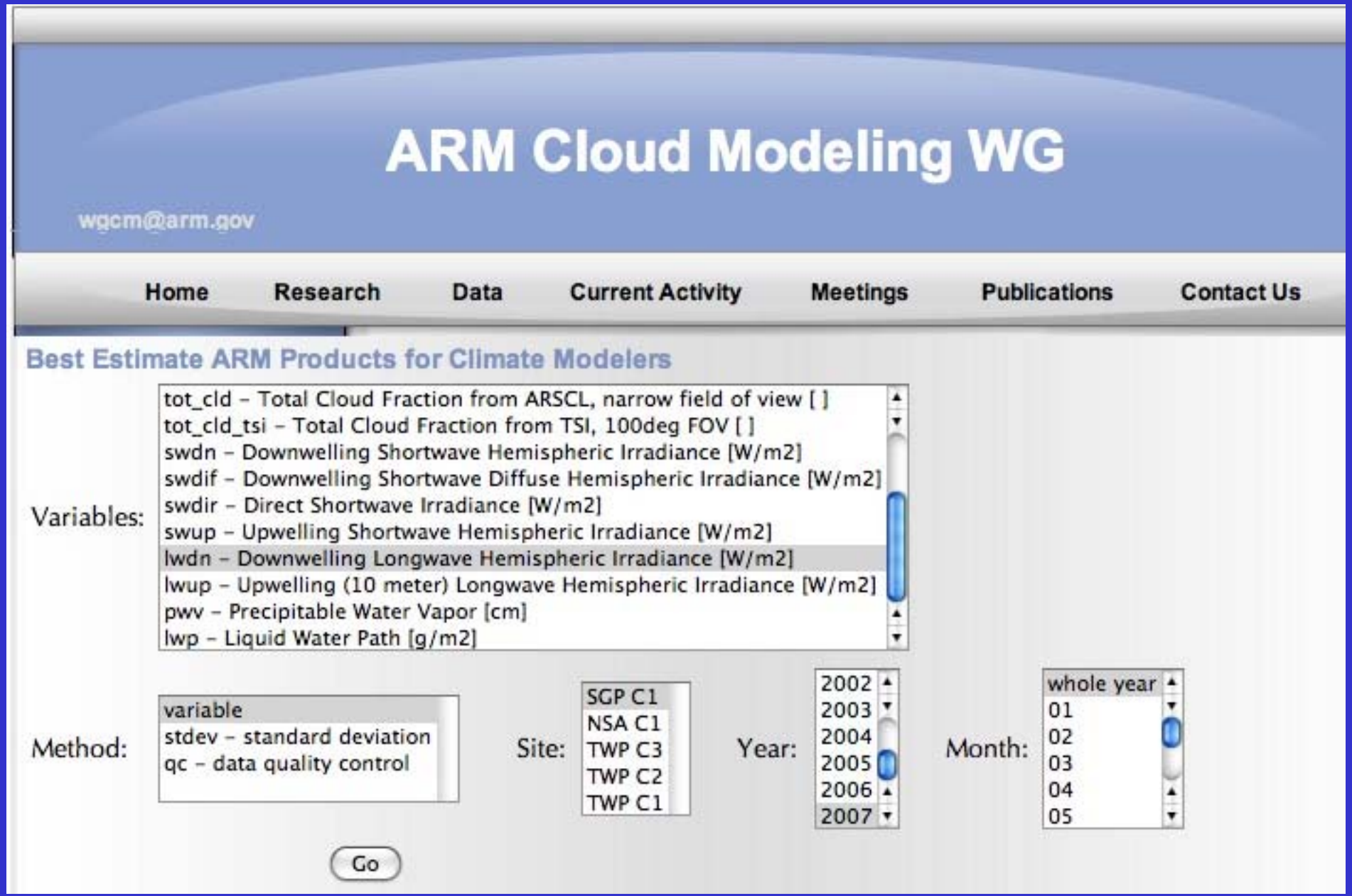
The dataset extends the following years: **1999 - 2001.**

There is more data available including data for the satellite observations, surface sensible and latent heat fluxes, and surface meteorology.

Would you like to download the data for your own exploration?

The data used in the statistical summaries is from a 3 year analysis **(1999-2001)** which is

CMBE website in Cloud Modeling WG website



Retrospective on Mobile Facility deployments, Thu morning

2005: Pt. Reyes, California

2006: Niamey, Niger

2007: Black Forest, Germany

2008: Shouxian, China

2009-10: Graciosa Island, Azores

We've come a long way from Pt. Reyes...

...to China, 2008

ARM Mobile Facility – China, 2008

Mobile Facility now being set up on Graciosa Island, Azores, 2009

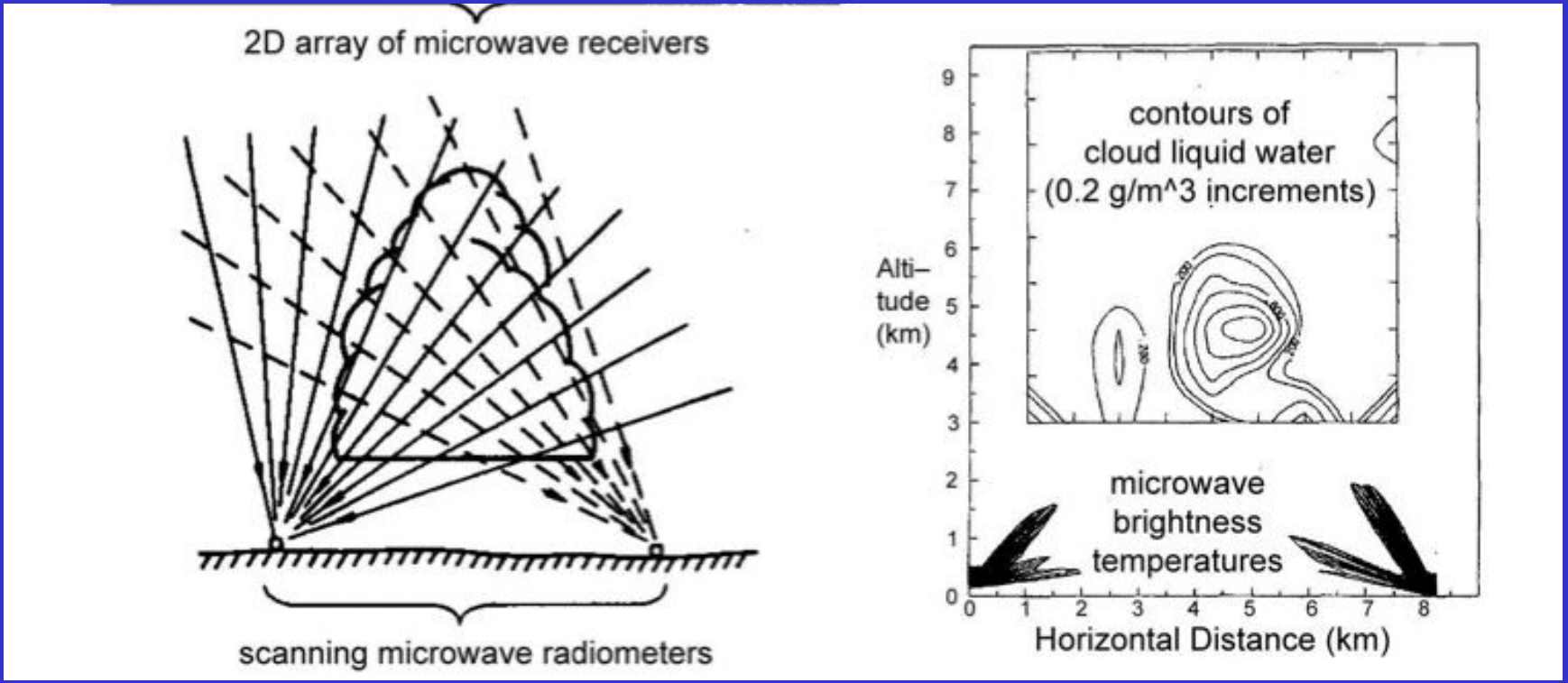
Graciosa, AMF site

Graciosa, town & harbor

RACORO is pioneering routine cloud flights (SGP area, Jan-Jun 2009)

RACORO, first flight

Cloud tomography IOP in May at SGP



A brief sampler of what lies ahead

RHUBC-II at 5.4 km in Chile, Fall 2009

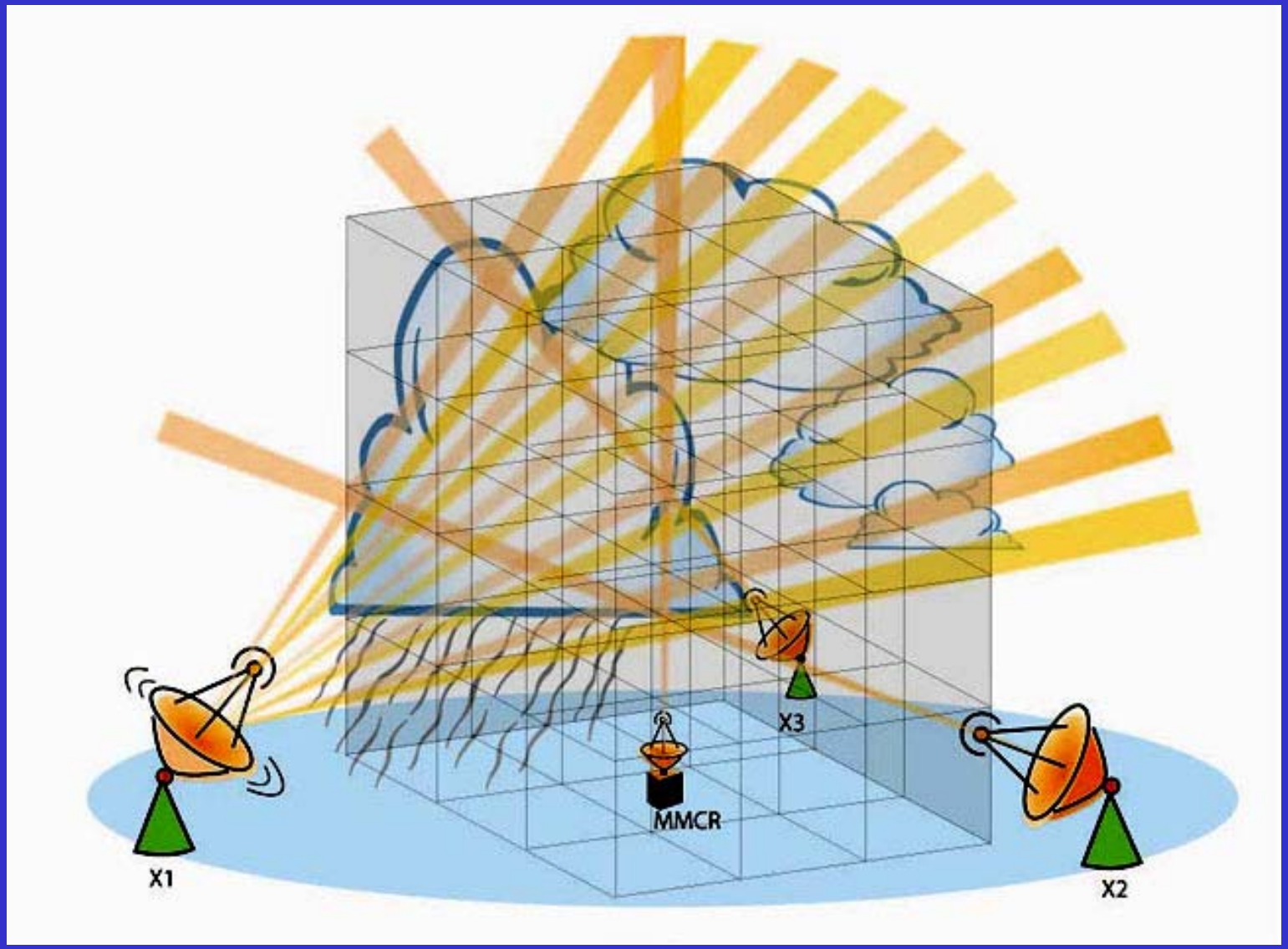
RHUBC-II at 5.4 km in Chile, Fall 2009

The 2nd Mobile Facility goes to Steamboat Springs in 2010

where it will sit just below Storm Peak Lab

We will fly tethered balloons at Oliktok Point, Alaska, for ALTOS

ARM scanning radars will be more than cartoons in the future



Special sessions on effect of stimulus purchases on ARM, Plenary Room

- Wed 2-3: Effect on Science Plan
- Wed 3-4: Effect on data products
- not a required activity!