



# Recruitment of Diverse Students: Goals, Strategies, and Plans





Education and Diversity Retreat August 2011 **CMMAP Diversity Goal:** 

Increase the number of diverse students pursuing graduate degrees in atmospheric science

#### **Strategy:**

Recruit, retain, and mentor students from underrepresented groups.

#### What are we doing?

Targeted recruitment at minority serving institutions Network with programs with like interests and goals Focus on multiple academic disciplines Attend national conferences meetings



#### 5 summers - 41 interns

Reach for the sky.

CMMAP

In 2006, Zizi Searles came to us from San Fracisco State University. She worked with CMMAP Faculty, Dr. A. Scott Denning studying emission CO<sub>2</sub> scenarios



Kimberley Trent worked with Dr. Warren Washington at NCAR during 2006 and 2007. Her research focused on hurricane modeling looking at different climate change scenarios.

SOA

In 2008, Nicole Ngo came to us from Irvine, CA. She worked with science mentors Chin-Hoh Moeng and Jeff We (NCAR) on "The effects of convective clouds on vertical scalar transport using a numerically simulated flow field"





Alex Gonzalez worked with CMMAP Faculty Dr. Wayne Schubert studying tropical dynamics. His research was entitled an "Analytical study of tropical flows using an improvement of the longwave model. He has participated in the program for 3 years and is now a M.S. student under Wayne Schubert at Colorado State University.

During Summer 2010, Diamilet Perez-Betancourt worked with science mentors Jonathan Vigh (an NCAR postdoctoral fellow, and CSU and SOARS alum) and Shuyi Chen (University of Miami) she studied Environmental factors influencing hurricane eye formation in the North Atlantic basin.



During Summer 2010, Maxino Menchaca worked

Unstructured Variable Resolution Hexagonal C-

Grids. Maximo has a peer reviewed publication based

Rosimar Rios-Berrias came to us from the University of Puerto Rico at Mayaguez.





In 2008, Karen Diaz' research focused on the "Effects of transport and meteorology on the particles measured at the Storm Peak Laboratory (SPL)" under the guidance of CMMAP Faculty Dr. Sonia Kreidenweis and Science Mentor Christine Wiedinmyer at NCAR.



on this work in Monthly Weather Review.

Vanessa Vincente came to us from Valparaiso University. Her Summer 2011 research focused on analyzing hurricane data. Vanessa is now a M.S. student under Dr. Russ Schumacher at Colorado State University.

#### 6 summers - 9 proteges

# 2006-2011



**CMMAP Diversity Goal:** 

Increase the number of diverse students pursuing graduate degrees in atmospheric science

**Undergraduate Interns** 

CMMAP Internship 24% to 70% by 2015

## To meet our goal...

Targeted recruitment at Minority Serving Institutions Florida A&M University Howard University Texas Southern University

NM Highlands University UMET UPR at Mayaguez UPR at Rio Piedras UT Pan American

Navaho Technical College Haskell Indian Nations University

NOVA Community College Pima Community College

Target a small number of geographic areas Arizona California Colorado New Mexico Texas

#### To meet our goal...

Identify and enlist participation of alumni of various summer programs

CMMAP Alumni Network Institute for Broadening Participation SMART Alumni Network SOARS Alumni Network

Network with programs with like interests, goals, and successful histories Carnegie Mellon University CUNY LSAMP CMMAP Partner Institutions CSU LSAMP CSU SACNAS CU SMART CU Bold Center EnvironMentors NSF CREST NSF LSAMP NSF HBCU-UP NSF TCUP UCAR SOARS

## To meet our goal...

Meet with NSF representatives to enlist support

NSF Office of the Director NSF Education and Human Resources NSF Geosciences Directorate

Attend National Conferences

2011 AGU 2011 UMET 2012 AMS 2012 NSF Joint Annual Meeting