



# DEEPWAVE

## Education & Outreach

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Yale University



# Community & School Visits

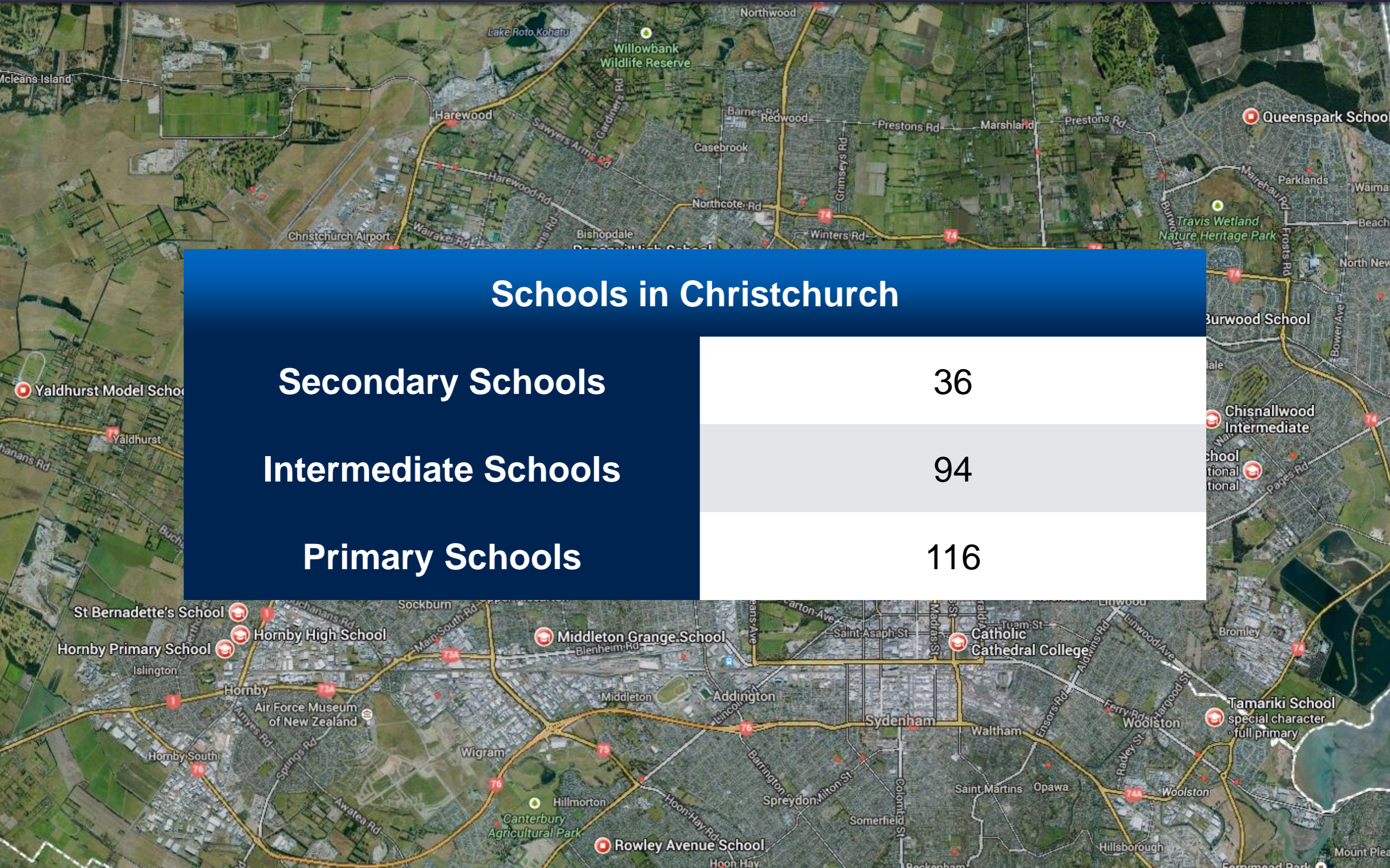
## Primary - Secondary Public School Calendar 2014

Term 1	27 Jan - 17 April
Term 2	5 May - 4 July*
Term 3	21 July - 26 Sept
Term 4	13 Oct - 19 Dec

EO Coordinator on location for 2 weeks = 10 school days



# Schools Near Christchurch



## Schools in Christchurch

**Secondary Schools**

36

**Intermediate Schools**

94

**Primary Schools**

116

# Schools Near ISS Site

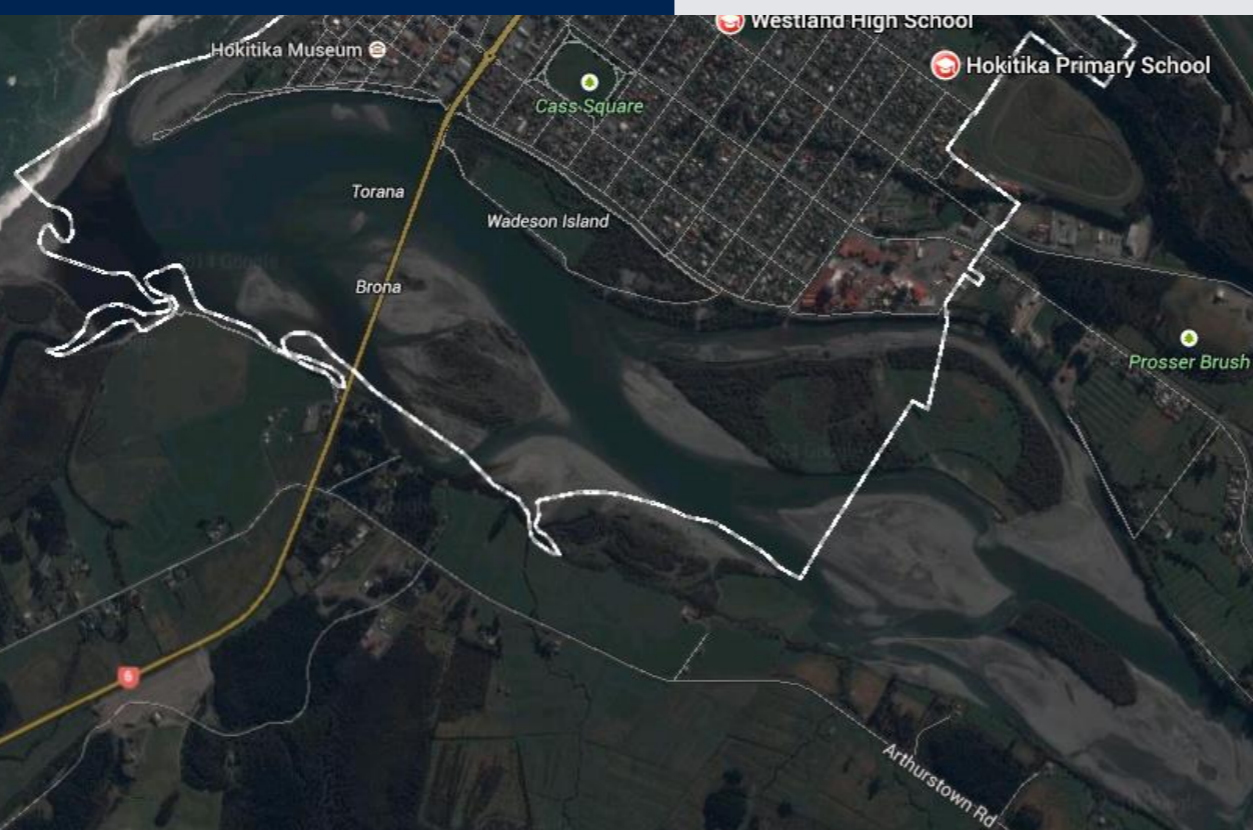
## Hokitika Schools

**High School**






1

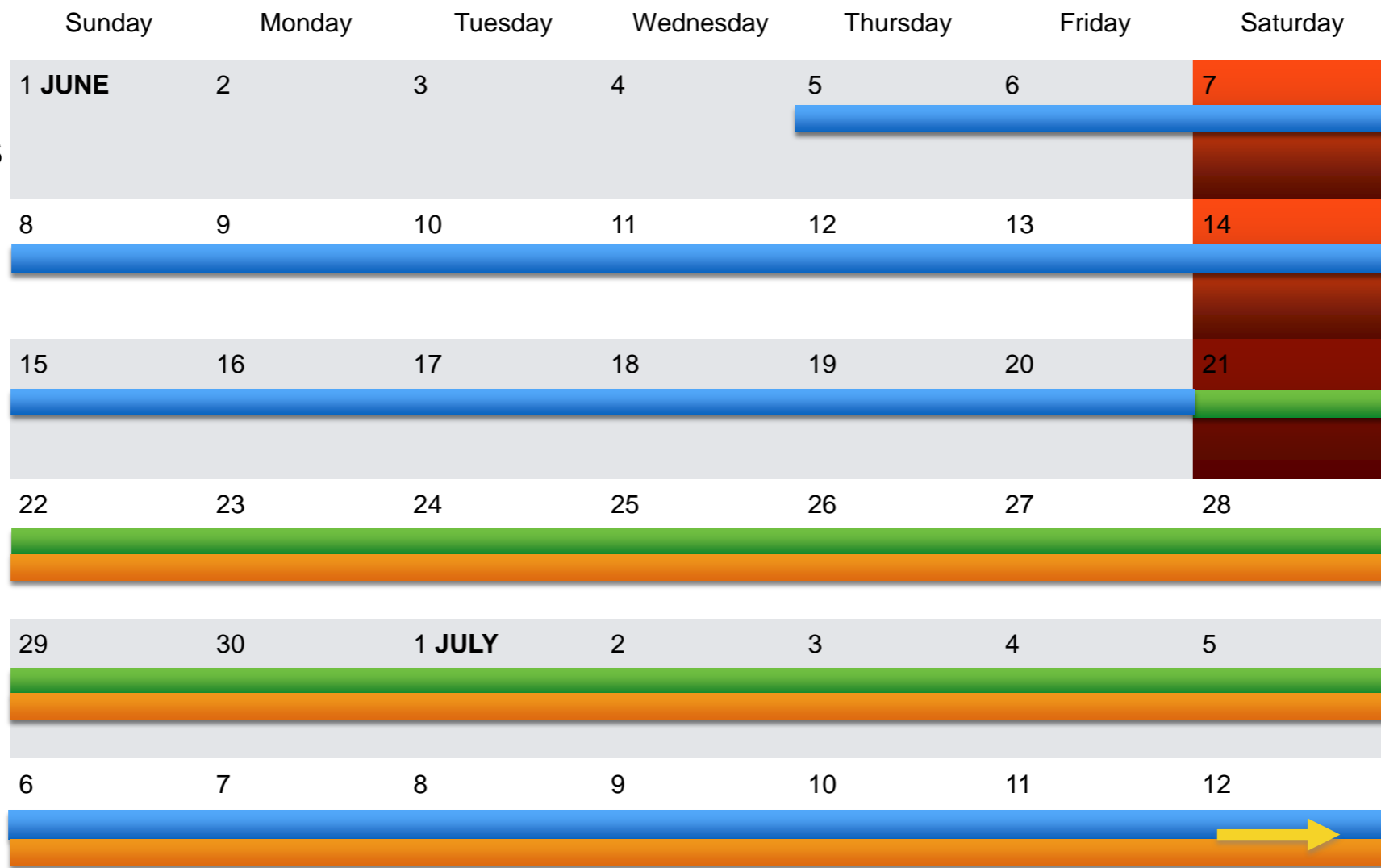
**Primary**

1



# Public Open House & Media Event

 DW Operations  
 DW  
 IOP  
 DL  
 R



Proposed Open House Dates

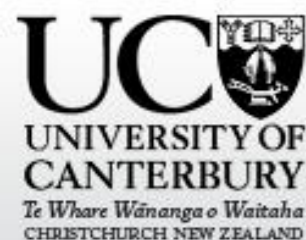
- 7 June
- 14 June
- 21 June



# University Student Involvement



Centre for Atmospheric Research



Civil and Natural Resources Engineering



Solve.



Discover.



# Internet-based Outreach


## CONTRAST EDUCATION & OUTREACH

Quick Questions for CONTRAST PIs

CONTRAST Science Team

CONTRAST HIAPER Payload

CONTRAST PI Relevant Publications

Follow the NSF/NCAR HIAPER in Real Time 

CONTRAST Educational Resources

CONTRAST in t



NCAREOL

Home Videos Playlists Discussion About 

CONTRAST 2014



**CONTRAST Research Flight 11**  
by NCAREOL 322 views



**LAOF :: NSF/NCAR HIAPER**  
by NCAREOL 91 views

NSF/NCAR GV 



**NSF/NCAR Gulfstream V :: Atmospheric Research ...**  
by NCAREOL 2,559 views



**Thunderstorms Affect Air Pollution**  
by InsideScienceTV 488 views



**GV (HIAPER) Drosponde Launch**  
by NCAREOL 1,563 views



**GV - New Frontiers in Atmospheric Science**  
by NCAREOL 1,777 views



**Introducing HIAPER - the NSF/NCAR Gulfstream V ...**  
by AtmosNews :: NCAR & UCAR Science on YouTube 13,931 views



**Arrival of the N V (HIAPER)**  
by NCAREOL 1,2

## DEEPWAVE SOCIAL MEDIA



Like us on **Facebook**



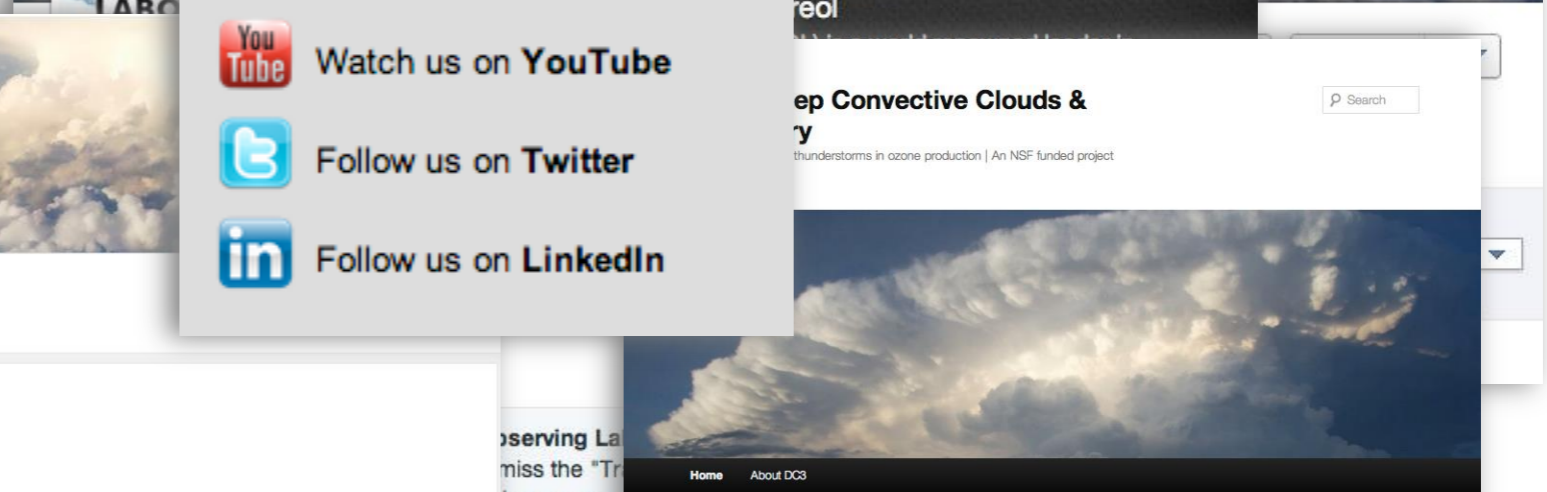
Watch us on **YouTube**



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## Exemplifying Experiential Education

Posted on July 2, 2012

An undergraduate course was taught at University of North Dakota by Dr. Gretchen Mullendore during Spring 2012 titled *Forecasting/verification of convective regimes for the Deep Convective Clouds and Chemistry (DC3) field campaign*. The course examined the objectives and motivation of the DC3 field campaign, and included discussions about particular challenges involved in making chemical transport measurements as well as hands-on forecasting exercises for all three DC3 regions.

Six UND undergraduate students traveled to University of Alabama, Huntsville, to work with UND graduate student Brandon Bigelbach and the DC3 UAH team, headed by Dr. Larry Carey. During the campaign, a hands-on forecasting internship was also held at UND, led by Dr. Jeff Tilley, that gave both graduate and undergraduate students a chance to do forecasting for the campaign and listen in on live forecast discussion.

Now that the course, and the project, are over, the students had time to reflect on their experience and the comment on the positive impact that amazing experiential educational opportunity will have to their education and overall career path.

LEARN MORE ABOUT DC3  
[www.eol.ucar.edu/dc3/outreach](http://www.eol.ucar.edu/dc3/outreach)

FOLLOW DC3 BLOG VIA EMAIL  
Enter your email address to follow this blog and receive notifications of new posts by email.

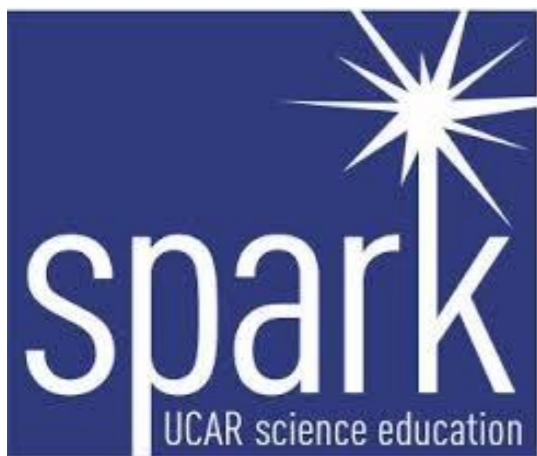
Join 9 other followers

Follow DC3

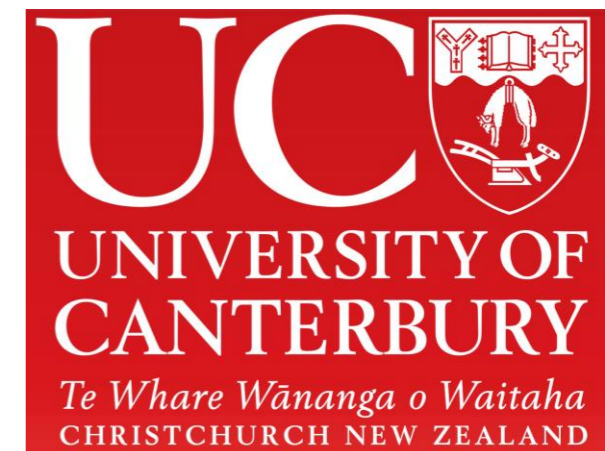
FOLLOW DC3 ON FACEBOOK



# Educational Collaborations



Yale University





# Teacher Workshop\*

## UCAR SCIENCE EDUCATION | SPARK (K-12)

### The Troposphere - Overview



The troposphere is the lowest layer of Earth's atmosphere. Most of the mass (about 75-80%) of the atmosphere is in the troposphere. Most types of clouds are found in the troposphere, and almost all weather occurs within this layer.

>> [Read more](#)

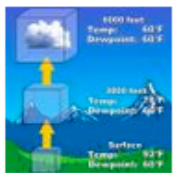
### The Stratosphere - Overview



The stratosphere is a layer of Earth's atmosphere. It is the second layer of the atmosphere as you go upward. The troposphere, the lowest layer, is right below the stratosphere. The next higher layer above the stratosphere is the mesosphere.

>> [Read more](#)

### Clouds and How They Form

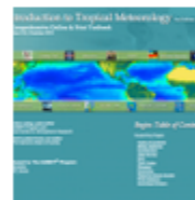


Clouds are made of water droplets or ice crystals that are so small and light they are able to stay in the air. But how does the water and ice that makes up clouds get into the sky? And why do different types of clouds form?

>> [Read more](#)

## UCAR METED (ADVANCED & FREE LOGIN REQUIRED)

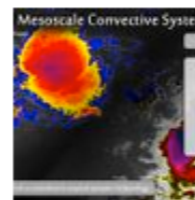
### Introduction to Tropical Meteorology



This online textbook is a comprehensive resource for Tropical Meteorology. It is intended for use by undergraduate and early graduate students in Tropical Meteorology courses, forecasters, and others interested in the impacts of tropical weather and climate.

>> [Read more](#)

### Tropical Mesoscale Convective Systems



A Mesoscale Convective System (MCS) is an organized group of thunderstorms that produces a contiguous precipitation area measuring 100 km or more in at least one direction. This system grows upscale from convective towers [...]

>> [Read more](#)





**Questions?**