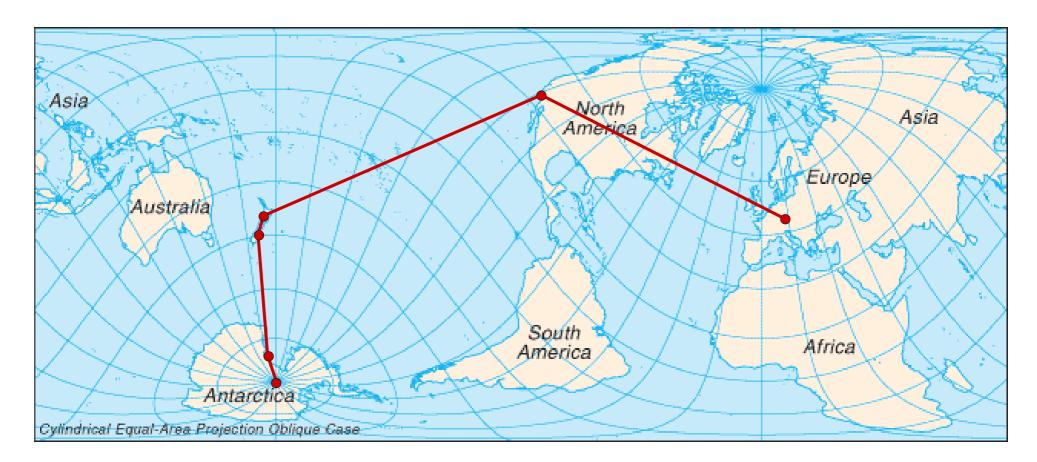


## **Traveling to South Pole**

- Started in Munich on September 22<sup>nd</sup>
- Arrived at South Pole on November 24<sup>th</sup> 2020
- Usually two weeks, but due to COVID-19 two months this year!
- 2 weeks each of quarantine in San Francisco and Christchurch
- One month stay in McMurdo due to bad weather at South Pole



# 怬

## The Clothing Distribution Center (CDC) in Christchurch

- Issuing of ECW (Extremely Cold Weather) gear
- Most important items:
  "Big Red" Canada Goose jacket, Carhartt overall, and white Bunny Boots



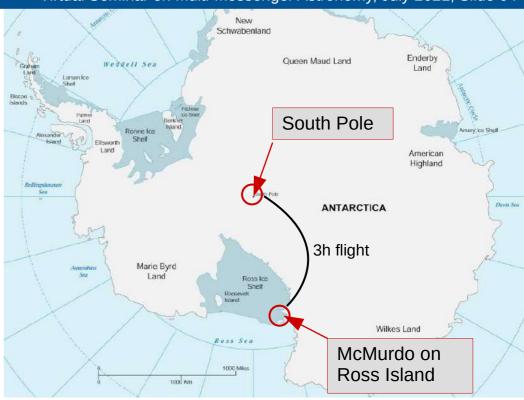


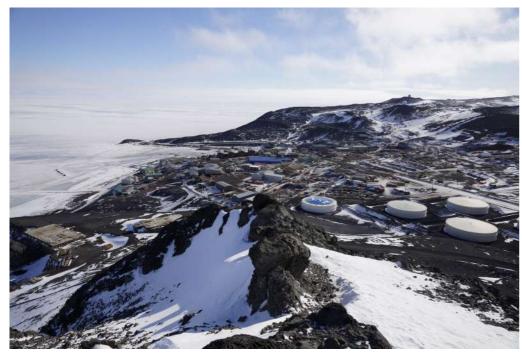
Last chance to see trees and flowers for the next year!



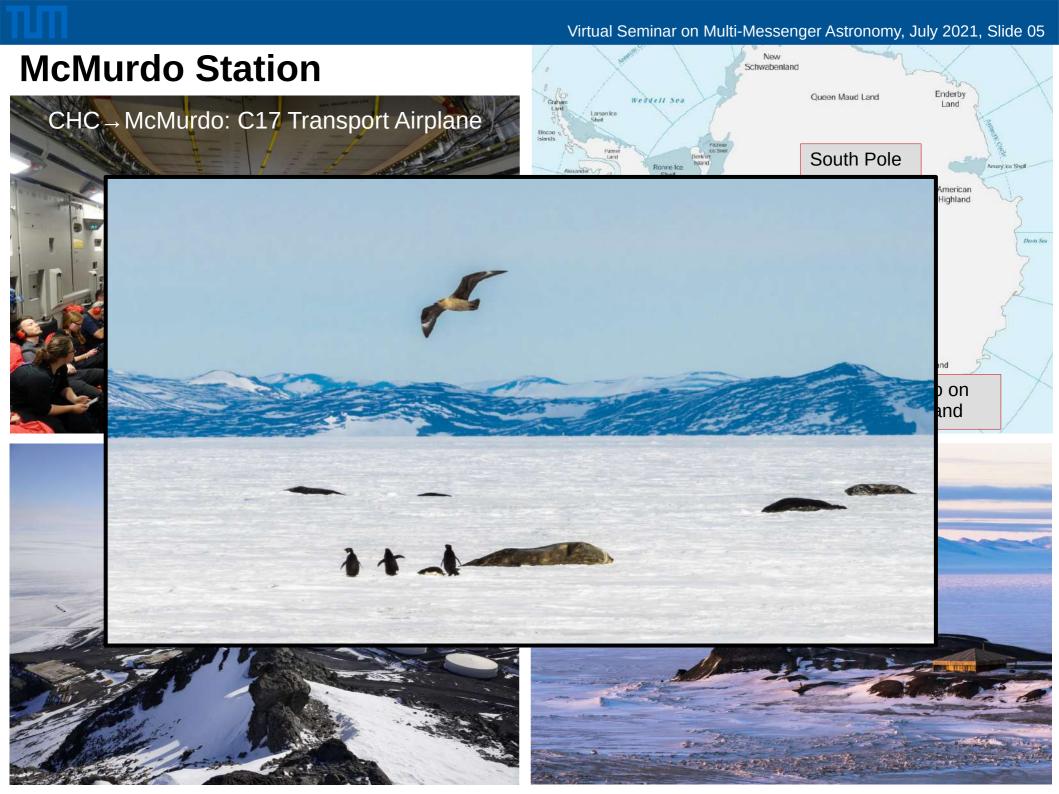
## **McMurdo Station**











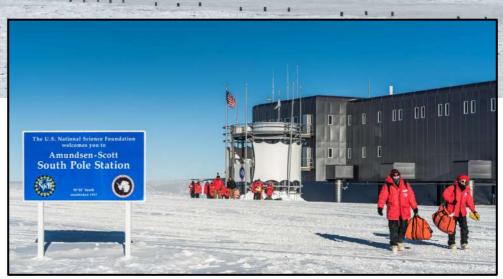
## Ш

## From McMurdo to South Pole









## **South Pole Sectors**

- Dark Sector
  - IceCube Laboratory (ICL)
  - South Pole Telescope (SPT)
  - Background Imaging of Cosmic Extragalactic Polarization (BICEP)
- Clean Air Sector
  - Atmospheric Research Observatory (ARO) run by NOAA
- Quiet Sector
  - Seismological detectors









### The Station



- 9300 ft (2830 m) elevation
- 65,000 ft<sup>2</sup> (6040 m<sup>2</sup>)
- 39 people this winter (2020/21)
- 450,000 gallons (1.7M I) of fuel





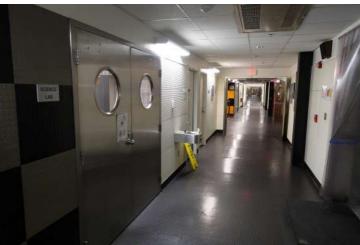
## **Inside the Station**

- 2 levels, 2 pods (A & B), 4 wings
- Science Lab
- Offices
- Galley
- Gym
- Sauna
- Library
- Craft Room
- Store
- Greenhouse
- Berthing







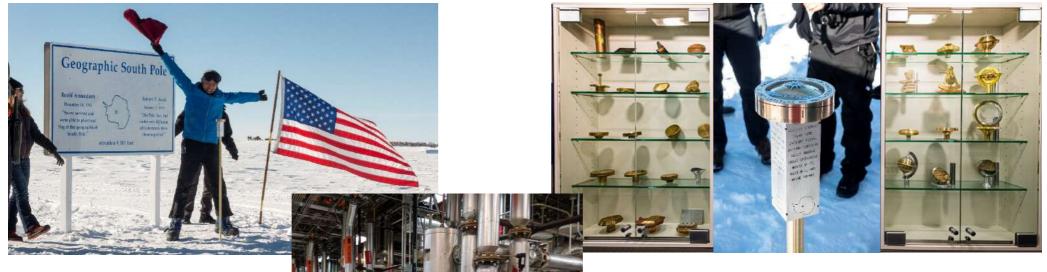






## More of the Station





## Ш

## **The Greenhouse**







## TUTI

# **Holidays**











# Weather





## **Fun Activities**











# Ш

## **End of Summer**









## **Sunset**





# 쩹

# **Twilight**

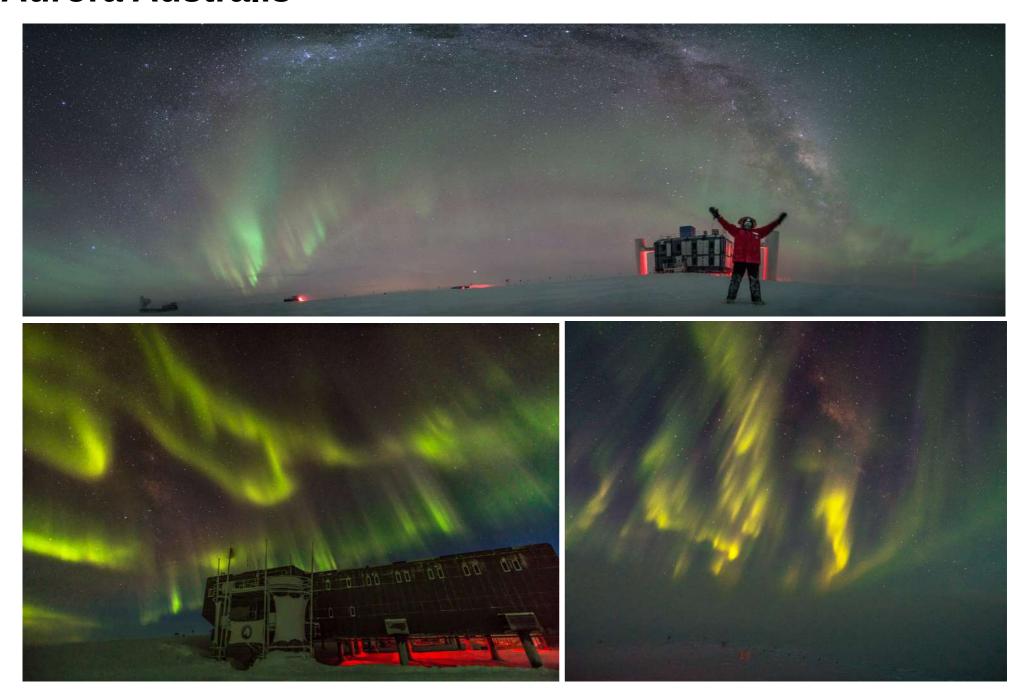








## **Aurora Australis**



# 怬

## The IceCube Laboratory (ICL)

- 1.5km from station
- Contains ~140 servers for data taking of 86 IceCube strings, 5409 DOMs
- Cargo & Lab area on 1<sup>st</sup> floor
- Control & server room on 2<sup>nd</sup> floor
- Controlling mainly from station via direct fiber cable connection









# The IceCube B2 Station Laboratory



- Located in B-Pod 2<sup>nd</sup> floor
- Workstations for controlling the detector as at ICL





### The work of an IceCube Winter-Over

- Keeping the detector alive and data taking 27/7, up-time about >99.9%
- Calibration runs, general maintenance like hardware replacement
- Documentation
- Lots of snow shoveling
- Outreach events
- Staying rested in case of an emergency





































