

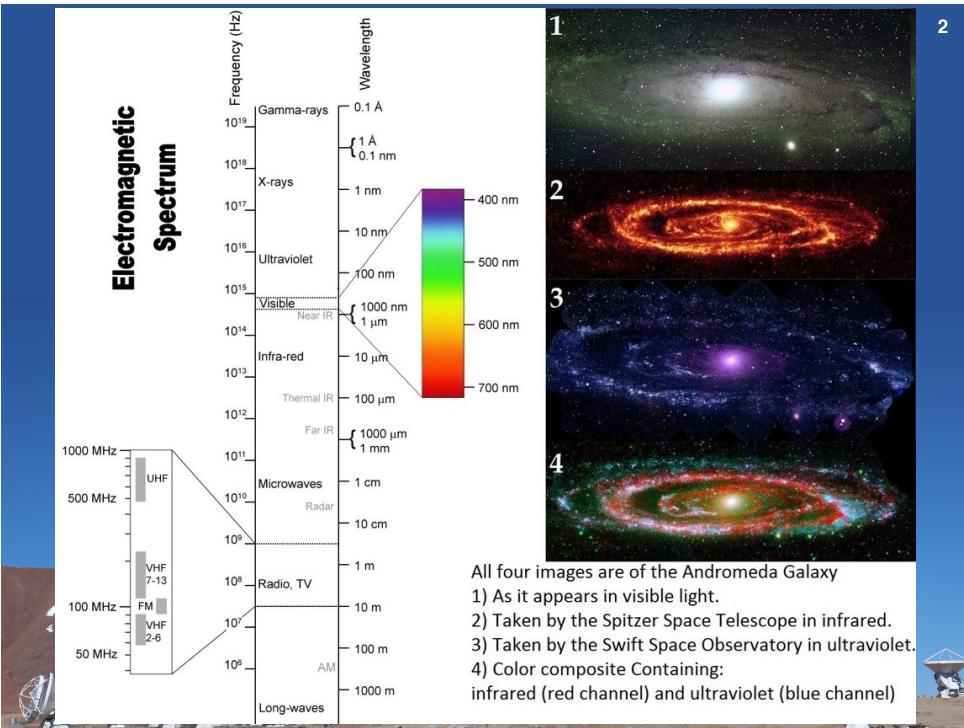
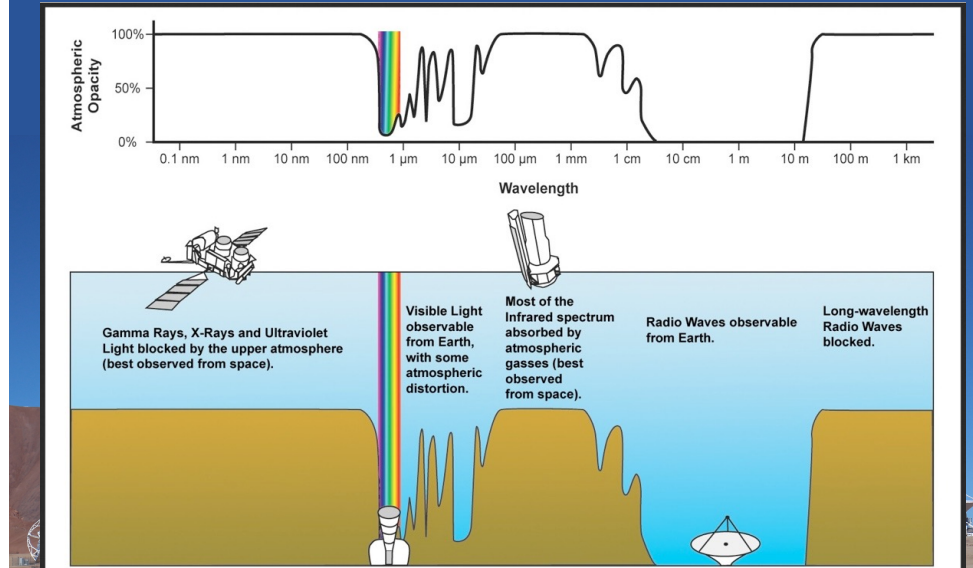
ALMA暑期學生培訓營

Vivien Chen 陳惠茹
(National Tsing Hua University)

July 13, 2020 @ALMA summer student training camp



大氣層的透明度



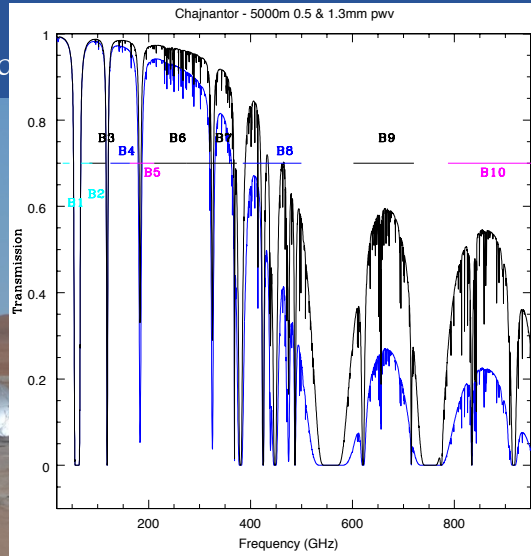
Where is ALMA?

Image courtesy: Stephane Guisard



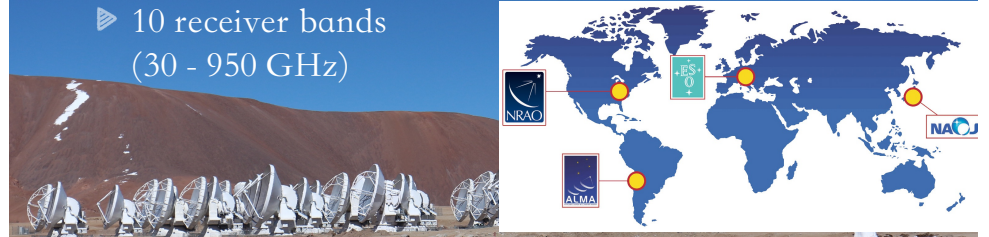
ALMA at Chajnantor, Chile

▶ Chajnantor plateau



Atacama Large Millimeter Array

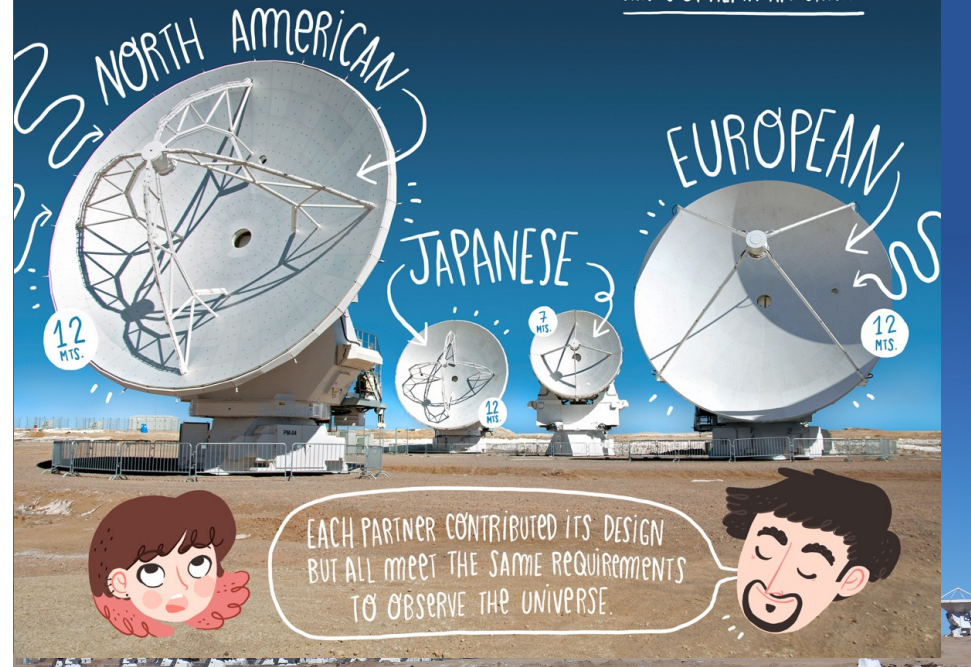
- ▶ International partnership
 - ▶ Europe (ESO), North America (NRAO), East Asia (Japan, Taiwan, South Korea), and Chile
 - ▶ Cost US \$1.4 billion
- ▶ ALMA (66 antennas to be) operating since 2011
 - ▶ 12-m: 50 x 12m
 - ▶ ACA: 12 x 7m + 4 x 12m
 - ▶ 10 receiver bands (30 - 950 GHz)



Still, High Site is to be feared



KINDS OF ALMA ANTENNAS



How big is a 12-meter?



Even a Song for ALMA~



UCAT Campus Visits

Date	Campus	Host
7/31 (Fri)	中央大學	黃崇源
8/14 (Fri)	臺灣師範大學	管一政
8/28 (Fri)	清華大學	陳惠茹



Course Plan

- ▶ Day 1: What is ALMA? Antennas?
- ▶ Day 2~3: What are arrays? Linux?
- ▶ Day 4: How to use images?
What is CASA?
- ▶ Day 5: ALMA data, what next?



Let's Start the Fun!

More Questions? Ask Sarah 陳彥華!

