



## One System, Two Continents, Four Sites



### **Archive Site**

### **Archive Center**

**Alert Production Data Release Production** 

Long-term Storage (copy 2)

### **Data Access Center**

**Data Access and User Services** 



### **Headquarters Facility**

**Observatory Management Science Operations** Education and Public Outreach

## **Base Site**

**Base Facility** 

Long-term storage (copy 1)

#### **Data Access Center**

**Data Access and User Services** 

## **Summit Site**

### **Summit Facility**

Telescope and Camera **Data Acquisition Crosstalk Correction** 



Data Management System Design LDM-148



# Data in catalogs also must flow from US to Chile



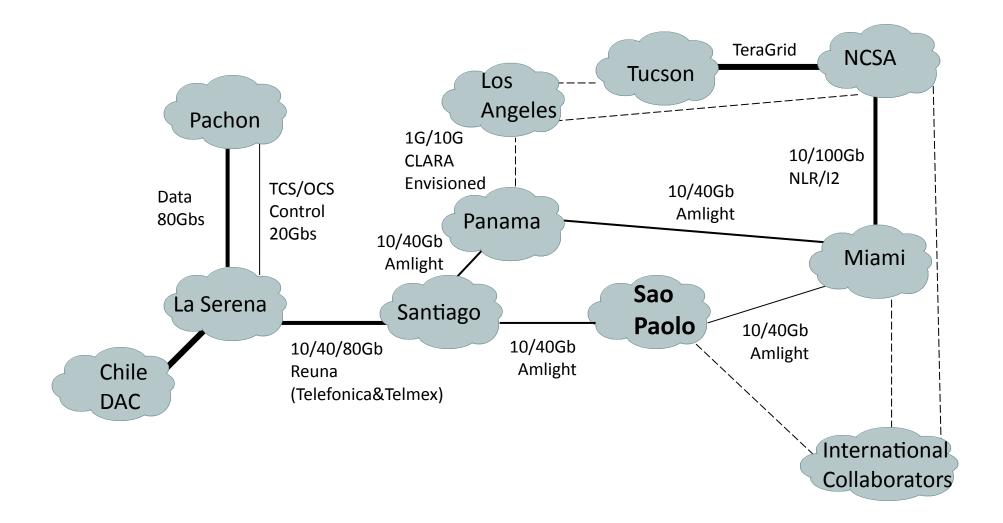
	Database Table	Billions of rows	Column width in kilobytes	Total Terabytes
	Object	37.0	3.2	109.0
	Moving Object	0.006	0.5	0.003
*	Source	4920.0	0.8	3594.0
٠	Forced Source	32100.0	0.04	71.0
•	Difference Image Source	196.0	0.4	1079.0
	CCD Exposure	16.0	0.6	0.6

Table sizes: the largest table in the last release, raw size, uncompressed, no replication, indices not included



## LSST International Dataflow LSS







### **LSST Networks Schedule**



		Construction				Commissioning		Operations			
FISCAL YEAR	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 - 2031
Mountain to Base B/W	0	0		1	1.5	2	100	100	100	100	100
Base to Santiago B/W	0.65	1	1	1	1.5	2	2.5	3	10 - 40	10 - 40	10-40-80
Santiago - MIA B/W	0.65	1	1	1	1.5	2	2.5	3	10 - 40	10 - 40	10-40-80
MIA - NCSA B/W	0.65	1	1	1	1.5	2	2.5	3	10 - 40	10 - 40	10-40-80
NCSA - Tucson B/W	0.65	1	1	1	1.5	2	2.5	2.5	3	3	3
Miami - Tucson B/W	0.65	1	1	1	1.5	2	2.5	2.5	3	3	3
NCSA -Lyon B/W	0	0	10	10	10	10	10	10	100	100	100

- Blue years are Research and Development Phase
- Pink years are Construction Phase
- Yellow years are Commissioning Phase
- Green years are Operations Phase



## National Science Board Approval



With approval from the National Science Board, the National Science Foundation (NSF) Director will advance the Large Synoptic Survey Telescope (LSST) to the final design stage. This action permits the NSF Director to include funds for LSST construction in a future budget request.

July 18, 2012

http://www.nsf.gov/news/news\_summ.jsp?org=NSF&cntn\_id=124899&preview=false