

Possible investigations at the summit...

Summit topology and geography

Geology, plants, animals, views, humidity, bad weather,

Telescope characteristics :

Mirror size, weight, wavelength range, focal stations,

Telescope optics:

Optical design and quality, active optics?, coating, mirror cleaning and re-coating process

Telescope mount:

Design, weight, slewing mechanism, speed, thermal stability, flexures,

Science objectives and operations:

Instruments, science milestone, location of observers, observing modes

Facility control and safety

Temperature control, dust control, high altitude problems, fire emergency, snow/bad weather procedures and emergency

Organizational structure:

Number of daytime/nighttime workers, summit lead, organization of work, tasks breakdown, 24/7?

Dome structure:

Weight, slewing mechanism, speed, design, exterior color, reflection at sunset, wind protection, thermal protection

Facility engineering:

Cryogenics, heat exchanger, water and electricity accessibility, waste disposal

Instrument engineering:

Switching to a different instrument, how fast, how often?, setup, calibrations, operations, troubleshooting

Adaptive optics:

System design, focal instruments (wavelength), troubleshooting, how often used?

Life at the summit:

Meals (location and preparation), gears, work schedule, transportation

Communication:

Phones, radio channels, data transfer, Internet access

Computers:

System administration, instrument control, computer room

