

Budget Justification

Pre-HEAT is the world's first fully-automated submillimeter-wave observatory. With its successful deployment, further operations require minimal direct financial outlay. Co-I Kulesa oversees operations of the telescope and processing of the data; these requirements do not warrant a significant amount of his time.

D. No major capital equipment will be purchased during this proposal period. All minor replacement parts will be fabricated.

E. Travel:

Travel support for one person to travel to China annually to partake in the annual traverse planning meetings. This is crucial to the success of the project, as we currently rely on the annual Chinese Antarctic traverse for all maintenance and transportation of materials to Dome A, the location of the observatory. Minimal travel costs abroad are funded by our Chinese collaborators, thus only air travel is requested in this proposal.

G. Other Direct Costs

Replacement parts are difficult to estimate in advance, but the only easily replaceable components of the telescope are the drive controller (\$1,000), stainless steel drive gears (\$100 each), and instrument computer (\$250). Our budget assumes that we will need to replace all three of these items during the two year period.

I. Indirect costs

This project will be charged at the rate of 51% through 6/30/2010, and 51.5% thereafter.