

Equipment, Travel, Supplies, Page Charges			
Cost Category	Year1	Year2	Total
Equipment	\$500	\$100	\$600
Materials & Supplies	\$200	\$200	\$400
Publication Costs	\$1,500	\$2,000	\$3,500
Travel	\$7,470	\$21,570	\$29,040
<i>Domestic</i>	\$2,820	\$2,845	\$5,665
<i>Intern'l</i>	\$4,650	\$18,725	\$23,375

Table 1.

Notes and assumptions:

EQUIPMENT COSTS: In Yrs 1-2, we request a total of \$11K for the purchase of a laptop and associated IT equipment to replace the PI's aging laptop (purchased in 2018, well past nominal 4-year refresh cycle at the time of the proposed budget period), "NASA-tized" computer equipment (laptops, monitors) for use by the summer interns, and as an "emergency" fund, should the Science PI's ~3-yr old laptop fail or need repair.

TRAVEL: refer to Table ??.

PUBLICATION COSTS: Our work plan includes the publication of four key manuscripts: (see Table ?? for details), but given the student projects, we have budgeted for 8 papers. We request a total of \$2K for publication costs, using the assumption that the papers will fall between "Tier 1" and "Tier 2" categories as defined in ApJ/AJ guidelines. These fees are included in proposed budget.

MATERIALS AND SUPPLIES: We request an annually-averaged budget of \$1,125 to cover purchase of disk space to back up our data products and miscellaneous office and IT supplies at PI and Science PI home institution. The distribution of these funds is top-heavy at the beginning of the grant period, when such supplies will be needed most. The disk size of the data products will be approximately 39 Gb per exposure: four `float32` extensions per CCD, corresponding to the (1) Zodiacal-CIB background, (2) in-field, and (3) out-field stray-light, and (4) thermal emission layers, plus one `binary` extension for the Solar System object trails (*streak* / *no streak*), for a total of 18 4096×4096 detector focal plane. Storage of these products will not be required, as they will be immediately produced by the pipeline on a exposure-by-exposure basis. End-to-end simulations shall not exceed 100 Gb, and they will be accessible to the community through a public internet server. Publication IV will require the analysis of an area equivalent to 32 adjacent field of views, the equivalent of a sector of the /WFI High Latitude Wide Area Survey, which corresponds to 128 exposures. Assuming an average exposure size of 9 Gb, plus ~40 Gb for the background products, we project that we will require ~10–15 Tb of disk space (including backups).