



## **Pan-STARRS**

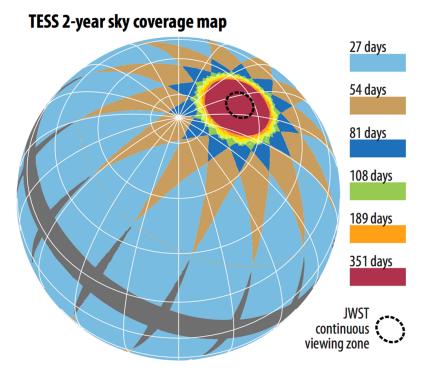
- 1.8 meter telescope with wide-field imaging on Haleakala in Hawaii
- Sky coverage north of -30 degrees.
- 5 bands (g, r, i, z, y)
- Supported at MAST by the Moore foundation





- Launched on April 18, 2018
- (Nearly) All-sky survey
- Planet hunter
- Full-frame image reads out every 30 min.
- Postage stamp target pixel files read out every 2 min. for high-prec. photometry.

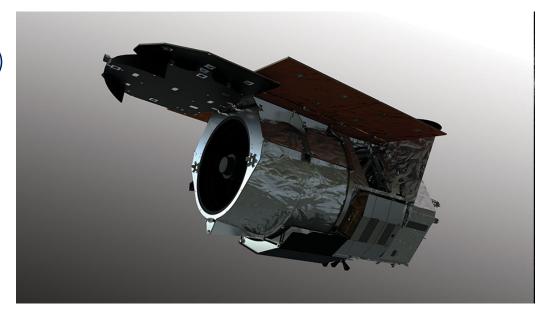




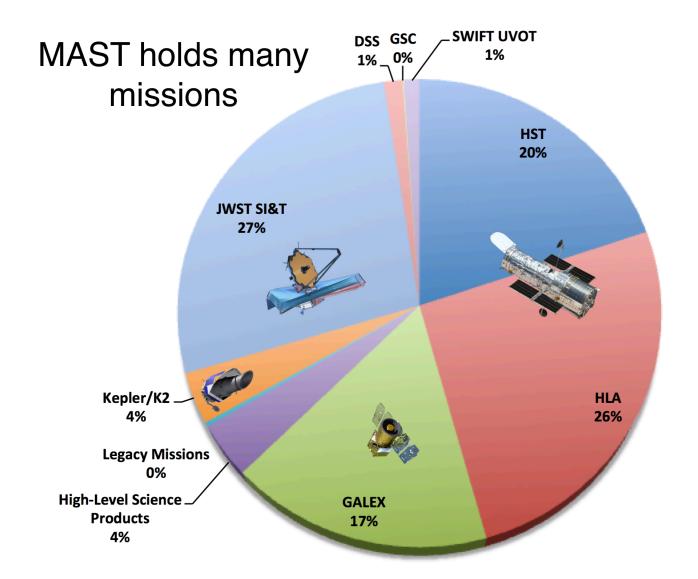


## **WFIRST**

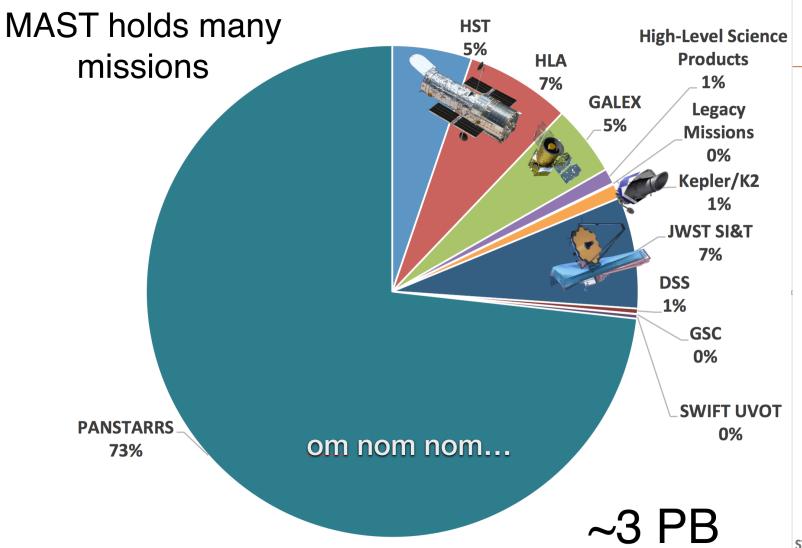
- Wide Field Infrared Survey Telescope
- Launches in mid 2020's to L2
- Hubble-size mirror (2.4m)
- FoV 100 times larger (>0.28 deg<sup>2</sup>)
- 0.11 arcsec/pixel











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Data Access		Pan-STARRS (PS1)	TESS	WFIRST
Images, Light Curves		DR1: 100 TB (1M images) DR2: 1.4 PB (22M images)	150 TB plus 260TB for HLSPs (~50TB so far)	~20PB
CAOM	VO SIA/SSA	Maybe	Maybe	Maybe
	VO TAP	Current	Current	Planned
	MAST API	Current	Current	Planned
Mission-Specific DB	VO TAP	No	No	Planned
	MAST API	No	No	Planned
VO HiPS		DR1 current (CDS), DR2 ??	Maybe	Maybe
Image/Cube Cutout	SODA	Maybe	Maybe	Maybe
	MAST API	Current	Current	Planned
Catalog Databases		DR1: 15TB (11B objs) DR2: 150TB (11B objs, 73 B dets)	TIC 8: 1.7B rows	??? rows/objects
VO Cone		DR1 Current, DR2 Planned	Current	Planned
VO TAP		Current	Maybe	Maybe
MAST API		Current	Planned	Planned
Casjobs		Current	No	Maybe