# 2 EML-7

Observe for or at least 2.9x432 square degree-days, with relative photometric measurements in the primary microlensing filter that have a statistical S/N of >=100 per exposure for a HAB=21.6 star.

*Parent links:* [EML-1](L1.html#EML-1), [EML-2](L1.html#EML-2), [EML-4](L1.html#EML-4), [EML-6](L1.html#EML-6)

# 2 EML-8

Microlensing seasons must occupy no more than 8/12 of the available seasons.

*Parent links:* [EML-1](L1.html#EML-1), [EML-2](L1.html#EML-2), [EML-4](L1.html#EML-4), [EML-6](L1.html#EML-6)

# 2 EML-9

Relative photometric measurements in the primary microlensing filter will have a systematic precision of 0.1% over a season and 0.01% over daily timescales.

*Parent links:* [EML-1](L1.html#EML-1), [EML-2](L1.html#EML-2), [EML-4](L1.html#EML-4), [EML-6](L1.html#EML-6)

*Child links:* [EML-23](L3.html#EML-23), [EML-24](L3.html#EML-24), [EML-25](L3.html#EML-25), [EML-33](L3.html#EML-33), [EML-35](L3.html#EML-35)

# 2 EML-10

Relative photometric measurements from separate seasons are tied to better than 0.1%.

*Parent links:* [EML-1](L1.html#EML-1), [EML-2](L1.html#EML-2), [EML-4](L1.html#EML-4), [EML-6](L1.html#EML-6)

*Child links:* [EML-34](L3.html#EML-34), [EML-36](L3.html#EML-36)

# 2 EML-11

Absolute photometry is calibrated to better than 1%.

*Parent links:* [EML-3](L1.html#EML-3), [EML-5](L1.html#EML-5)

# 2 EML-12

The light curves shall be sampled with a wide filter spanning 1 to 2 um.

*Parent links:* [EML-1](L1.html#EML-1), [EML-2](L1.html#EML-2), [EML-4](L1.html#EML-4), [EML-6](L1.html#EML-6)

# 2 EML-13

The photometric sampling cadence in the wide filter shall be <=15 minutes.

*Parent links:* [EML-1](L1.html#EML-1), [EML-2](L1.html#EML-2), [EML-4](L1.html#EML-4), [EML-6](L1.html#EML-6)

# 2 EML-14

The EE50 radius of the PSF in the wide filter shall be <0.15."

*Parent links:* [EML-1](L1.html#EML-1), [EML-2](L1.html#EML-2), [EML-4](L1.html#EML-4), [EML-6](L1.html#EML-6)

# 2 EML-15

Each observing season shall last at least 60 days and at least 36 days of each season should be on the opposition side of quadrature.

*Parent links:* [EML-1](L1.html#EML-1), [EML-2](L1.html#EML-2), [EML-4](L1.html#EML-4), [EML-6](L1.html#EML-6)

# 2 EML-16

The seasons will be monitored with a duty cycle of >=90%.

*Parent links:* [EML-1](L1.html#EML-1), [EML-2](L1.html#EML-2), [EML-4](L1.html#EML-4), [EML-6](L1.html#EML-6)

# 2 EML-17

Monitor fields with two filters in addition to wide filter: both R~4 filters, one with bandpass shortward of 1 um and one with a bandpass longward of 1 um, each with a cadence of 1 exposure every 12 hours.

*Parent links:* [EML-3](L1.html#EML-3), [EML-5](L1.html#EML-5)

*Child links:* [EML-28](L3.html#EML-28)

# 2 EML-18

The first and last observing seasons shall be separated by >4 years.

*Parent links:* [EML-3](L1.html#EML-3), [EML-5](L1.html#EML-5)

# 2 EML-19

The relative astrometric measurements shall have a statistical precision of 1 mas per measurement for a star of HAB=21.6.

*Parent links:* [EML-3](L1.html#EML-3), [EML-5](L1.html#EML-5)

*Child links:* [EML-29](L3.html#EML-29)

# 2 EML-20

The relative astrometric measurements will have a systematic precision of 10 uas over the full microlensing survey (stretch goal of 3 uas).

*Parent links:* [EML-3](L1.html#EML-3), [EML-5](L1.html#EML-5)

# 2 EML-21

Measure the FWHM in both axes of a HAB=21.6 star to 1% per day.

*Parent links:* [EML-3](L1.html#EML-3), [EML-5](L1.html#EML-5)

# 2 EML-22

Measure the FWHM in both axes of a HAB=21.6 star to XX% over the entire duration of the microlensing survey.

*Parent links:* [EML-3](L1.html#EML-3), [EML-5](L1.html#EML-5)

# 2 EML-100

WFIRST shall provide alerts on a XX hour timescale.

*Parent links:* [EML-5](L1.html#EML-5)

*Child links:* [EML-26](L3.html#EML-26), [EML-27](L3.html#EML-27), [EML-30](L3.html#EML-30), [EML-31](L3.html#EML-31), [EML-32](L3.html#EML-32)