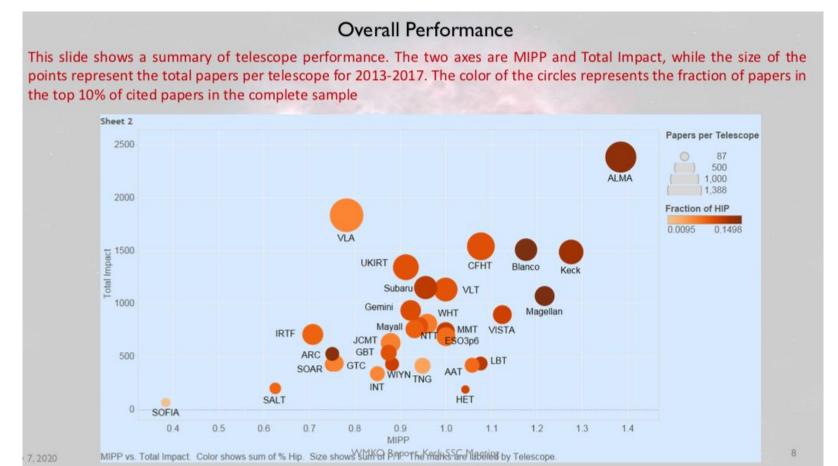
Keck SSC Meeting Notes

July 7-8, 2020 Meeting held via Zoom

Introduction and Announcements

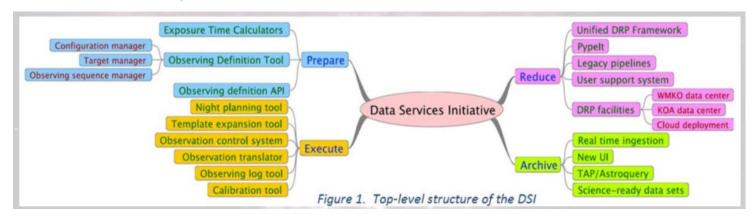
- The SSC welcomes Andrew Howard as the new Caltech representative.
- We thank Evan Kirby for his service and many contributions to the SSC during his term.
- The SSC congratulates Leslie Kissner on her retirement, and we thank Leslie for her outstanding work at WMKO over the past 17 years. We will miss you!
- We congratulate the segment repair team for completing their work with exceptional skill, ensuring the scientific future of the Keck telescopes.

- Publication metrics (from D. Crabtree) show that Keck remains strong among ground-based telescopes, though now #5 in Crabtree's Total Impact metric.
 - ALMA is #1 overall, with CFHT & UKIRT higher due to their surveys, VLA higher due to many more papers (though with lower average impact)



- COVID-19: WMKO currently at Risk Level 3 ("Act with Care").
 - Restricted operations, day crew limited to 12 people, most employees still working from home.
 Projects proceedings more slowly.
 - WMKO Farms2Families (F2F) program: purchases local produce & delivers to community using Keck staff+vehicles.
- Maunakea situation: no access issues lately
- Restructuring & MK Master Plan ongoing
- Leslie Kissner retiring in September after 17 yrs at WMKO.
- Segment repair completed: all 84 segments over 5 years
 - No degradation seen in first segment repaired
 - Finished under budget & only with small delays (outside of the team's control)
 - Huge success, thanks esp. due early recognition of the problem & the funding approach
- Tertiary mirror cracks now seen in K2, identical to segment cracks
 - Have to strip coating to inspect K1 tertiary. Since now have deployable tertiary for K1, might just fix K1 then swap into K2, instead of fixing both historical tertiaries.
- K1 pier repair (oil seepage issue): June 2019 installation of oil dams have significantly reduced oil ingestion into grout & foundation.
 - Working with JPL Deep Space Network & external consultants on assessment + repair plan.

- KAPA: full system review planned in Sept
- TDA: disabled for first 4 weeks of science operations, restarted in mid-June with limitations
 - no instrument changes for ToOs currently
 - must submit triggers by 4 pm HST
 - o all observers must prepare PJ mode in advance
- Pajama mode: new observing mode set up on short notice
 - Need to consider long-term impact on science at November SSC meeting
- Data Services Initiative: NASA CAN overguide proposal accepted
 - Will mean changes for observers' preparations for observing
 - CY 2020-2023: development & deployment, with significant DRP contributions from partners
 - WMKO will maintain beyond CY2023
 - o PI is J. O'Meara, with WMKO+NExScI work. Will include 2 new WMKO hires + 1 at NExScI



- COVID impact on projects: KPF & KCRM holding schedule for now, but anticipate schedule slip due to vendor delays & campus shutdowns.
- LRIS: ongoing amplifier issues, red upgrade work underway.
- DEIMOS: continuing detector issues CCD5 is dead, also bias+gain issues with 2 other CCDs. Impacts to both spectroscopy & imaging.
- Keck Science Meeting (Sept 2020) will be entirely online.
- NASA Keck User Group continues to be very satisfied with WMKO.
- FY21 budget planning approach: foregoing the usual detailed planning process due to COVID-19 uncertainties. Maintaining a "hold steady" budget for now, with more detailed planning+budgeting to come in the fall.

White Paper review process

- Most of the meeting time was devoted to review and evaluation of white papers, including concept studies, Phase A proposals, and requests for support for proposal preparation.
- 12 white papers were evaluated, including 5 concept studies and 7 projects requesting Phase A support and/or support for proposal preparation.
- One additional white paper requested visitor instrument status, but WMKO policy does not currently allow visitor instruments.
- Grand total funding requested was \$800k, compared with \$400k available in this year's proposal call.
- Projects supported in last year's call were invited to present progress reports.
- Reports on AO initiatives were also presented.

Summary of reports presented to the SSC

The following projects/groups presented progress reports and updates to the SSC prior to the proposal discussion and evaluation:

- Keck AO Future Study Group (Peter Wizinowich, WMKO)
- FOBOS (Kevin Bundy, UCSC)
- DEIMOS upgrade (Evan Kirby, CIT)
- HISPEC (Dimitri Mawet, CIT)
- LIGER (Shelley Wright, UCSD)
- IGNIS (Gregory Mace, UT Austin, and Emily Martin, UCSC)
- ASM technical development for GLAO (Phil Hinz, UCSC)
- KWFI (Jeff Cooke, Swinburne)