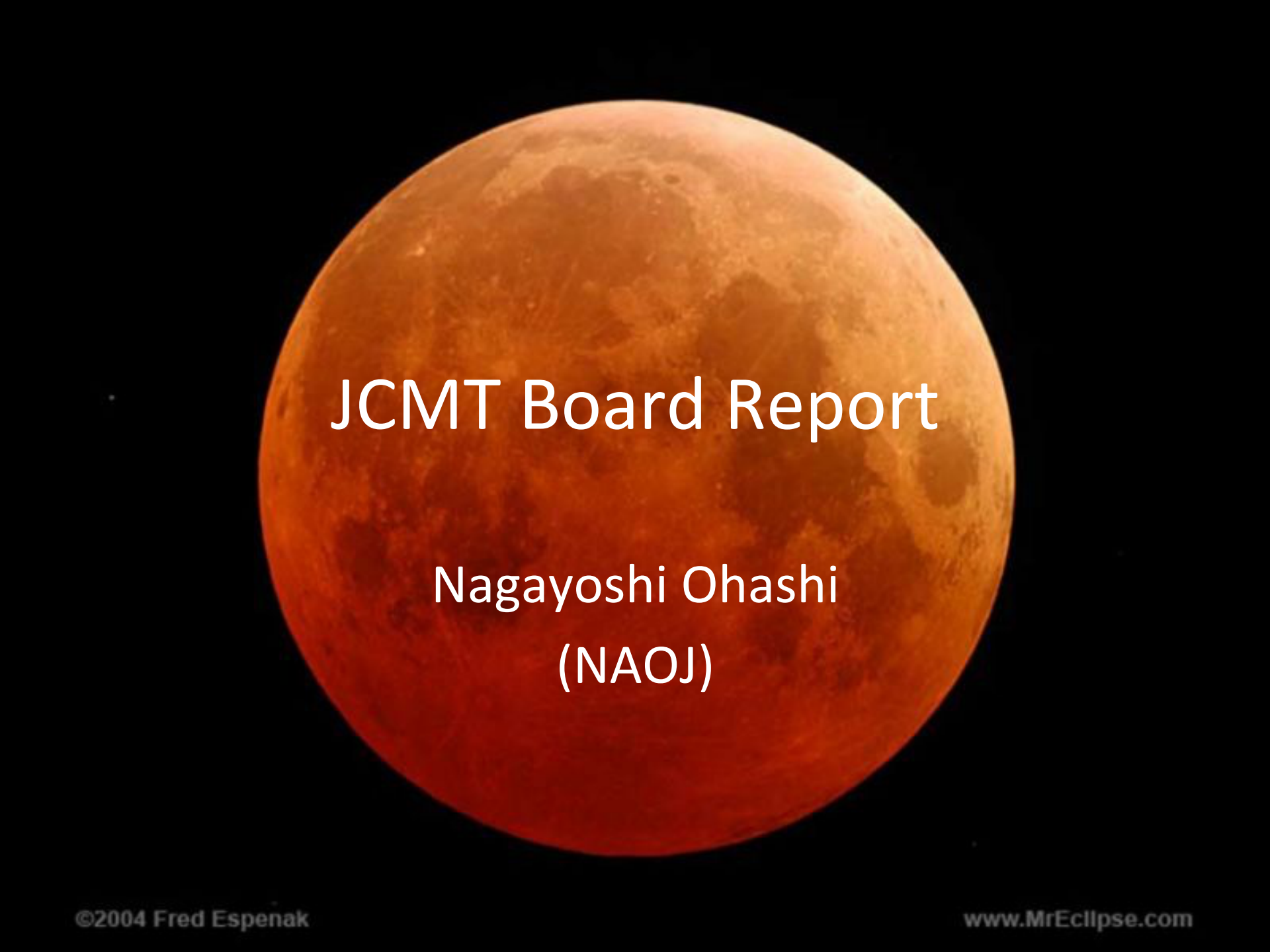


JCMT Board Report

Nagayoshi Ohashi
(NAOJ)

Board Members

- China: Yu Gao (+ one more)
- Japan: Nagayoshi Ohashi (+one more)
- Korea: Jongsoo Kim
- Taiwan: Ming-Tang Chen
- UK: Walter Gear, Jennifer Hatchell (will be replaced)
- Canada: Christien Wilson
- UH: Len Cowie

F2F board meeting has been held twice a year

Main Issues

- Operation performance of JCMT
  - continued low fault rate; Board thanks the JCMT staff for their hard work and dedication i
  - various problems with SCUBA-2, RxA, RxA sideband ratios, and HARP
  - Large Programs should not exceed 50% of the telescope time.
- Scientific productivity
  - PI programs vs Large programs; Board will review the current ratio (50/50) at the next board meeting
- Mid-term review

JCMT Midterm Review

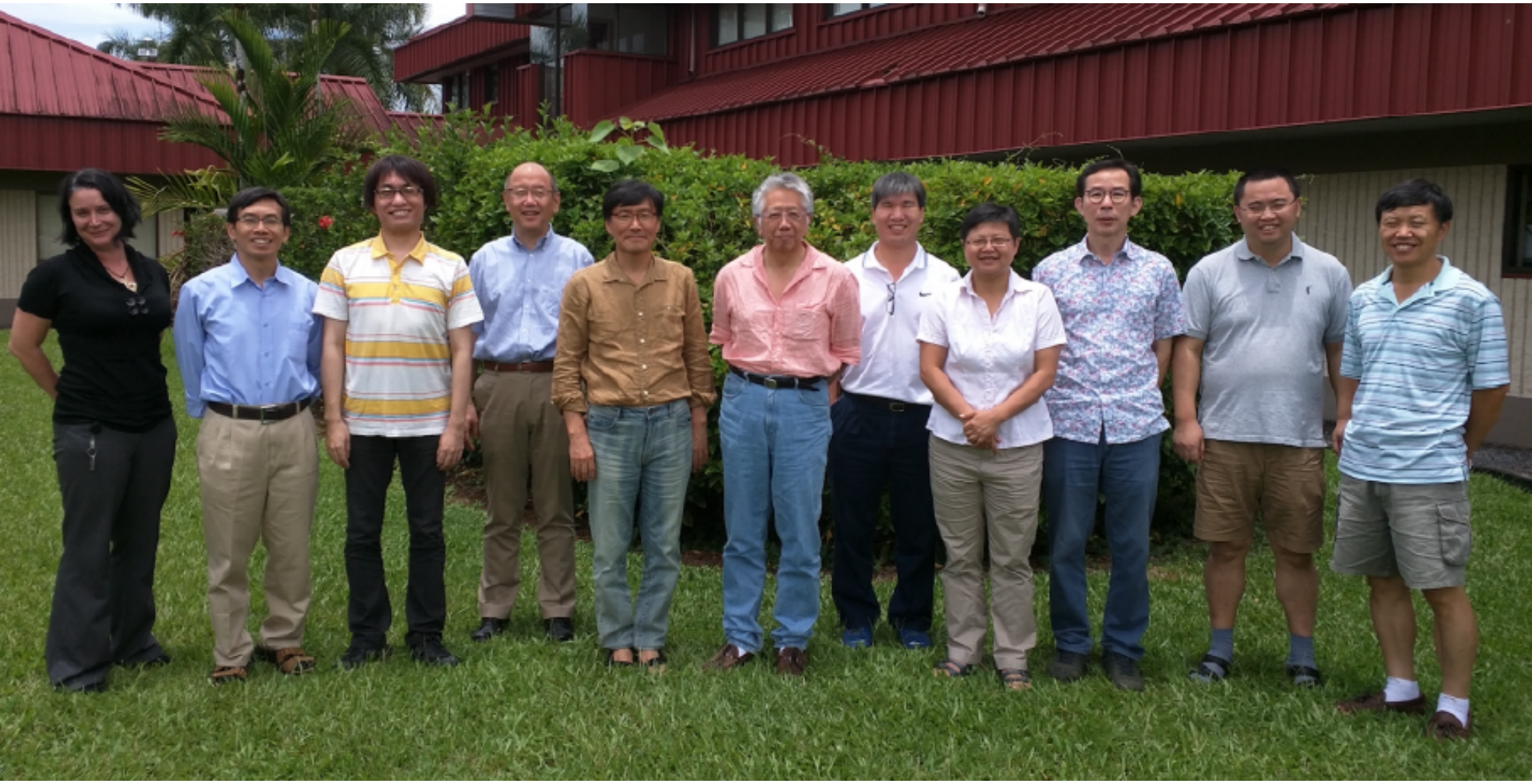
- When EAO started taking over the JCMT operation, the EAO board had a plan to hold a midterm review.
- Purpose
  - To review the performance of JCMT and to provide recommendation to the EAO board members, in particular the EACOA directors, for them to discuss whether or not EAO is going to continue to support the JCMT operation beyond February 2020.
- Two-days F2F meeting was held on July 27 and 28, 2017.

JCMT Midterm Review : Charges

1. Review the operation of the JCMT in terms of efficiency, financial expenditures, scientific productivity, and management
2. Review the performance of the JCMT relative to its prior history
3. Review the performance of the JCMT relative similar facilities
4. Review the future prospects of the JCMT relative to ALMA, SKA,
5. JWST, and Subaru
6. Review JCMT in terms of its role within the portfolio of EAO
7. Review the engagement of EA regions on the JCMT project

JCMT Midterm Review: Panel members

- China: Yu Gao, Junzhi Wang, Ming Zhu
- Japan: Hideyuki Kobayashi, Satoru Iguchi
- Korea: Jongsoo Kim, Changbom Park
- Taiwan: Shih-Ping Lai, Ming-Jye Wang



Three strong points of JCMT

- EA engagement
  - Two call-for-proposals for large programs
  - More than 500 participants, 65% of them from EA
  - 11 publications from LPs
- POL-2 commission
  - The commissioning work has been delayed during the pre-EAO era
  - Successful commissioning during the early EAO era
  - Two papers from BISTRO LP within only one and half years.
- Low-fault rate
  - 2.5% (after-EAO era) < 3.0 % (pre-EAO era), even though reduction of the significant number of staff in the beginning of the EAO era

Some concerns

- 2015 deficit (708k USD) and budget plan for 2018 and 2019 years
  - No plan to compensate the deficit
  - Risk of cash flow
  - The budget plan from UKIRT, Australia, Vietnam, and Thailand needs to be confirmed
- Recent paper productivity
  - Reduction of papers ~100 (2010~2013) to ~80 (2014~2016)
  - (However,thepaperproductivityofthenewstatisticsproducedbyin-depth searching has been improved)
  - First author papers from EA regions: 7 in 2015, 18 in 2016, 21 as of November, 2017
- Small number of staff from EA regions
  - 3 from EA regions: Tie Lie, Shaoliang Li, and Kuan-Yu Liu
- Old heterodyne receivers
  - RxA is not closed system of helium and has a high system temperature
  - HARP has high system temperatures and two (three) pixels are not working

Recommendation from the Panel

- Full remote observations at Hilo for 24 (~16 in reality) hours per day
  - (potentially) Reduce the operation cost; Board notes that there is no financial advantage for the operation cost
  - Reduce the travel cost from regions
- Start to develop a multi-pixel receiver
  - Trying to coordinate the receiver development teams in EA regions
  - Board notes that RxA urgently needs replacing, and GLT Rx can be a good replace with substantially increased performance and saving of ~$100 K/yr in liquid helium
- Develop a brand-new project driven by EAO
  - Operation of the existing facilities by the EAO is a good starting strategy.
  - Develop an ambitious long-term project
  - Board notes that JCMT with good long-term upgrades to instruments and telescope can be a long-tern project

EAO board will continue to discuss about the continuation of the JCMT operation in 2018.

JCMT needs your help

- Keep up high scientific productivity
  - Papers should be published as soon as possible and as much as possible
- Explain your needs of JCMT whenever possible in each region