

# S2COSMOS

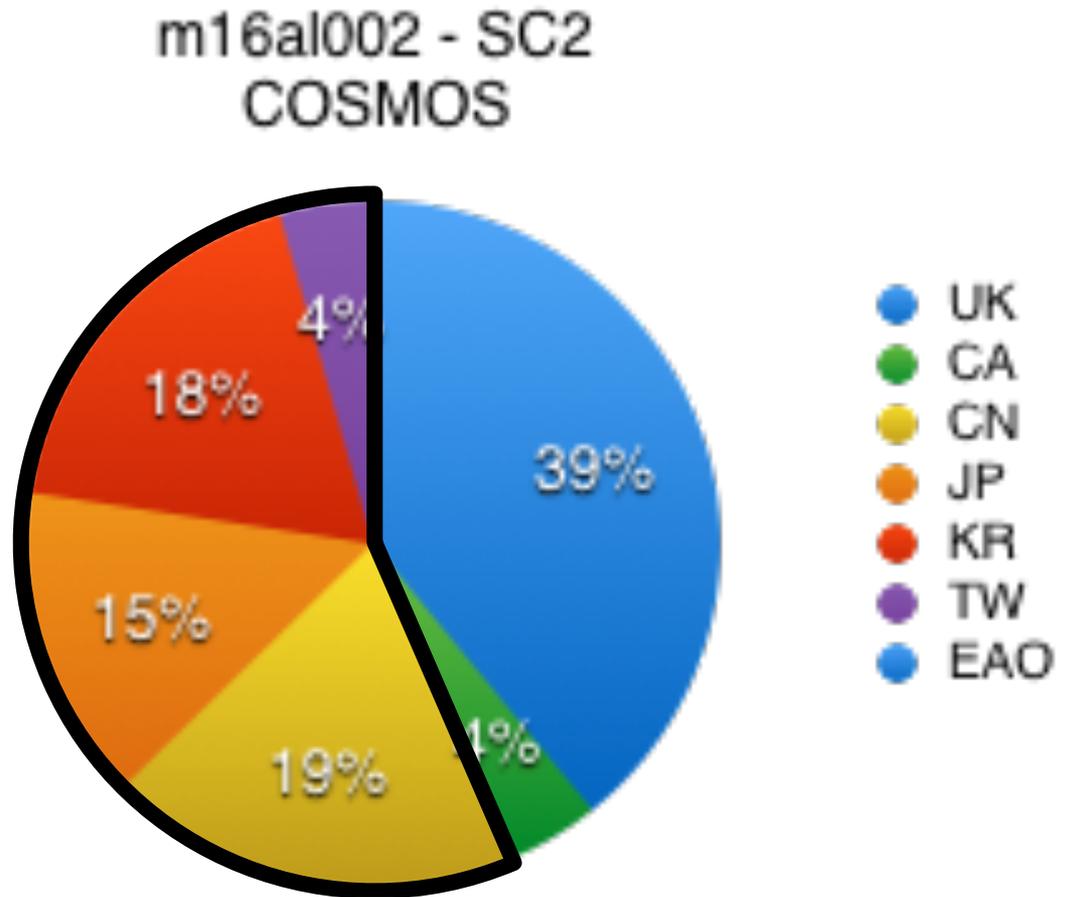
Yuichi Matsuda (NAOJ)

Ian Smail (UK, survey contact), Scott Chapman (Canada),  
Ran Wang (China), Yujin Yang (Korea), Wei-Hao Wang (Taiwan)  
& the S2COSMOS team

# Team members

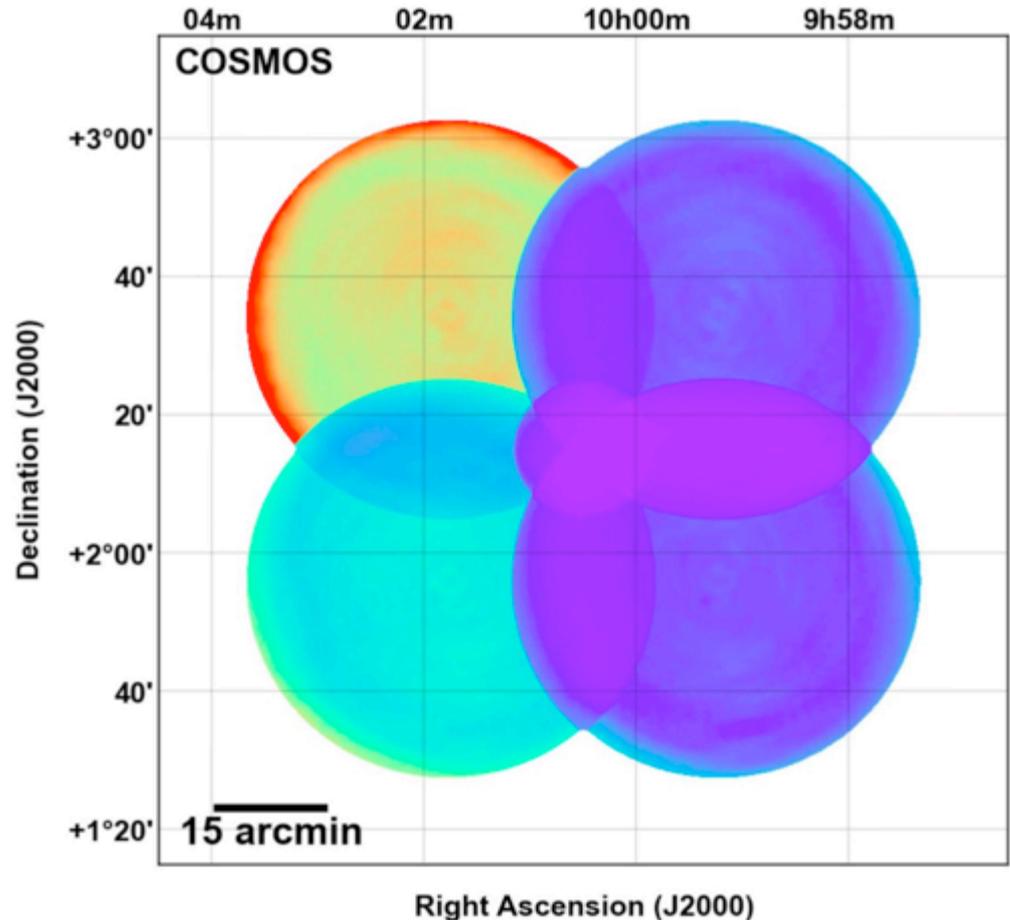
- We have 80 members (more than double the number of those named on the initial proposal)

This is an obvious continuation of SCUBA-2 Cosmology Legacy Survey (S2CLS)  
But 60% of the members are from East-Asia (EA)



# Goals

- 1) To complete a 1.5-mJy rms 850 $\mu$ m map of the full 2-deg<sup>2</sup> field (partly covered by S2CLS)  
- 90hr
- 2) To increase the depth of this map to 1.2mJy rms to provide a sample of  $\sim$ 1000 SMGs  
- 140hr

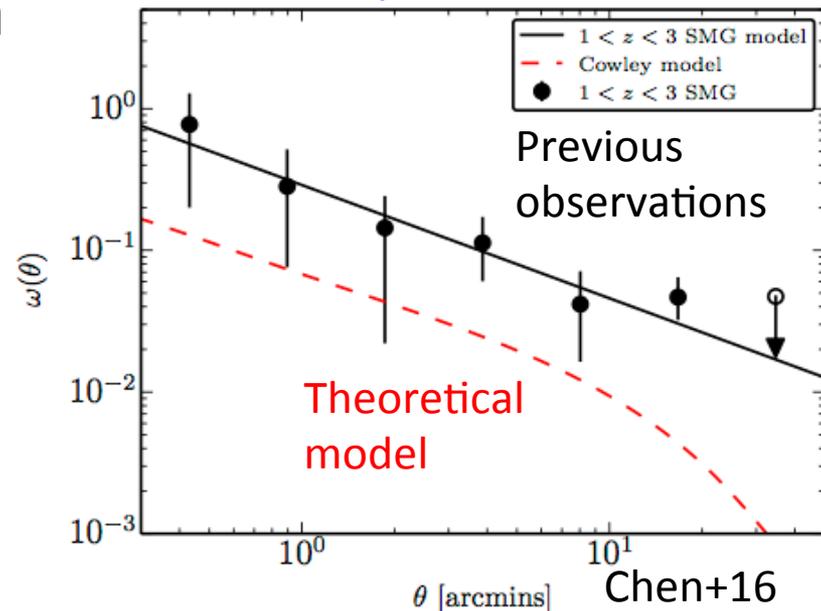
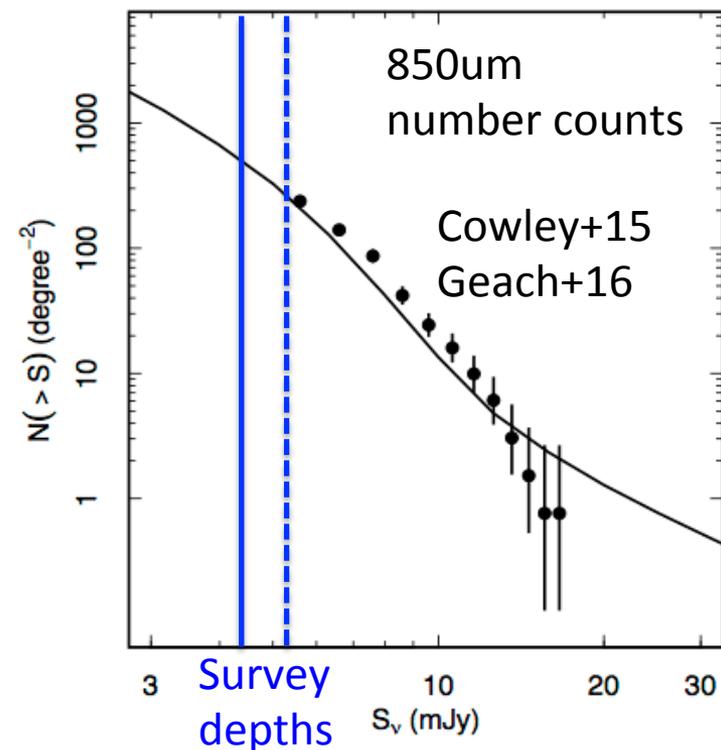


850 $\mu$ m map of the COSMOS field taken by the previous survey (S2CLS)

# Uniqueness

The complete S2COSMOS map will have twice the area of similar surveys in a single contiguous field.

Large ( $\sim 1000$ ) sample of submm sources in the  $2\text{-deg}^2$  ( $\sim 8 \times 10^7 \text{ Mpc}^3$ ) field will allow unique tests of their clustering (and multi-wavelength) properties.

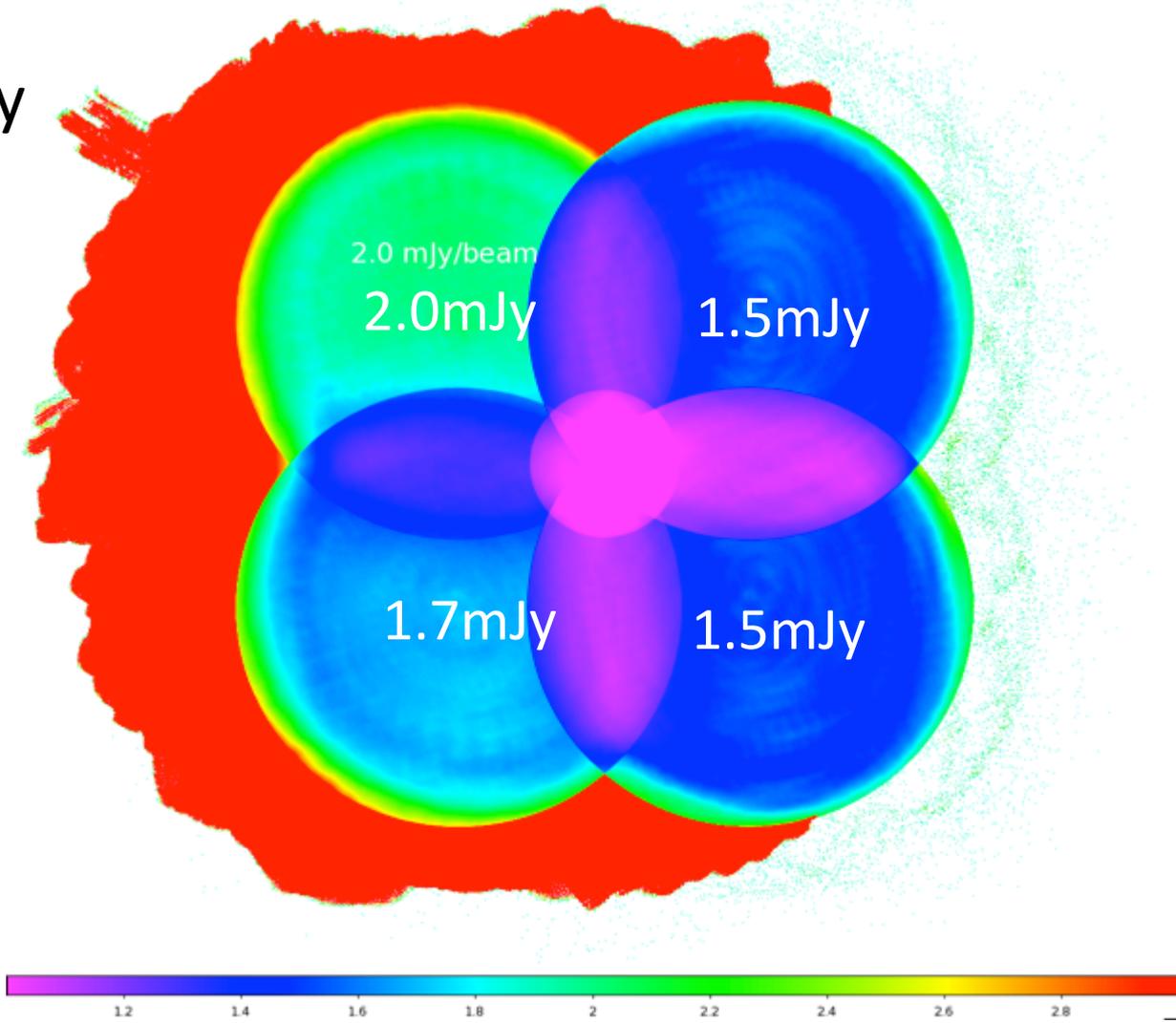


# Current Status

- We are now 57% complete (127/223hours)

The rms is 1.5-1.7mJy on three of the quadrants and is currently ~2mJy on the final (north-east) pointing (Mar 2016)

We are proposing at least 2 ALMA follow-ups from EA and UK



# Team Wiki

- We have setup a wiki to coordinate the scientific planning and exploitation of the survey by the team members

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## ☆ FrontPage

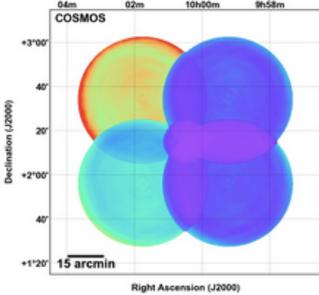
last edited by [ian.smil@durham.ac.uk](mailto:ian.smil@durham.ac.uk) 2 weeks, 5 days ago [Page history](#)

### S2COSMOS EAO/JCMT Large Programme

This is the home page for the S2COSMOS SCUBA-2 survey – an EAO Large Programme to complete and extend the SCUBA-2 coverage of the COSMOS field.

This project builds upon the existing S2CLS coverage of COSMOS in a two-phase approach: first completing the coverage of the full field to the depth of the deepest existing S2CLS maps ( $\sigma_{850}=1.5\text{mJy rms}$ ) and then increasing the depth of the full  $2\text{ degree}^2$  field to  $\sigma_{850}=1.2\text{mJy rms}$ .

Preliminary dataset (v0) produced by TC Chen can be obtained from [here](#) (ID/pwd: s2cosmos/NotS2CLS) (29/03/2016). This contains data taken up to the middle of March 2016.



**Contents:**

1. Original survey proposal [S2COSMOS case.pdf](#)
2. Project delivery plan (10/2/16) [S2COSMOS ProjectPlan.pdf](#)
3. [Proposed publications](#)
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## ☆ Membership

last edited by [ian.smil@durham.ac.uk](#) 2 months ago [Page history](#)

### Membership of S2COSMOS Consortium

Membership of the consortium was open to all members of eligible EAO partner countries until February 1 2016.

The following gives a list of all those who signed up. Note that membership of the consortium comes with the expectation that you will aid in staffing the telescope observing runs or provide other support to the project. Members who leave the partner countries/institutes during the course of the project may be retained in the consortium if they have contributed to the project. This will be decided on by the coordinators.

**Coordinators:**

- Scott Chapman [scott.chapman@dal.ca](mailto:scott.chapman@dal.ca) – S2COSMOS–Ca coordinator
- Ran Wang [rwangpku@gmail.com](mailto:rwangpku@gmail.com) – S2COSMOS–CN coordinator
- Yujin Yang [yyang@kasi.re.kr](mailto:yyang@kasi.re.kr) – S2COSMOS–KR coordinator
- Yuichi Matsuda [yuichi.matsuda@nao.ac.jp](mailto:yuichi.matsuda@nao.ac.jp) – S2COSMOS–JP coordinator
- Wei-Hao Wang [whwang@asiaa.sinica.edu.tw](mailto:whwang@asiaa.sinica.edu.tw) – S2COSMOS–TW coordinator
- Ian Smail [ian.smil@durham.ac.uk](mailto:ian.smil@durham.ac.uk) – S2COSMOS–UK coordinator

**Members on original proposal:**

- [jiangKIAA@pku.edu.cn](mailto:jiangKIAA@pku.edu.cn)
- [yugao@pmo.ac.cn](mailto:yugao@pmo.ac.cn)

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# Summary

- S2COSMOS is an EAO SCUBA-2 survey of 1,000 SMGs in the COSMOS field
- We have 80 members (60% are from EA)
- S2COSMOS will allow unique tests of the clustering of SMGs
- We are 57% complete (127/223hours)