

ALMA Future Science Workshop



North American Development Cycle 5

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Presentation Outline

- **Operating Definitions**
- **Proposal Preparation**
- **Evaluation Criteria**
- **Award Pool**
- **Timetables (Projects and Studies)**
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Operating Definitions

- **Project:** *a large-scale (typically >\$1M), multi-year initiative involving relatively mature technology. May lead to full implementation in the ALMA Observatory.*
- **Strategic Study:** *a mid-scale (\leq \$0.4M), two-year investigation of an emerging technology of specific, strategic interest. May lead to a Development Project.*
- **General Study:** *a small-scale (\leq \$0.2M), one-year investigation of an emerging technology of general interest. May lead to a Development Project.*
- **Notice of Intent:** *a written expression of interest in Cycle 5 proposal process participation. This ensures that a Proposer is included on the mailing list for replies to Proposers' questions, and other correspondence. A Notice of Intent is non-binding.*
- **Validity Date:** *the date when the NRAO releases the Proposing institution from the contractual terms, conditions, and total cost presented in its Proposal; exceptions may be granted on a case-by-case basis.*

Development Projects are not necessarily preceded by a Study.

Proposal Preparation

- **Proposal Categories**
 - **Advanced Techniques**; e.g., advanced data processing/analysis tools, advanced calibration methods, or innovative observing modes
 - **Advanced Hardware**; e.g., advanced receiver cartridge components, cryogenic cooling apparatus, or test and measurement equipment
 - **Advanced Software**; e.g., advanced user interfaces, data reduction and analysis routines, or data imaging routines
- **Templates**
- **Cost estimating guidelines**
- **Guidelines for collaborations**
- **Page limits (excluding Appendices and CVs of key personnel)**
 - Project: 100 pages
 - Study: 20 pages

Detailed instructions will be included in the Cycle 5 Call for Proposals.

Evaluation Criteria

- **Alignment with NA ALMA Partnership strategic goals**
- **Strength of the scientific case for the proposed Study or Project**
- **Quality of the proposed conceptual or preliminary design**
- **Technology Readiness Level**
- **Strength of the consortium organization (if applicable)**
- **Qualifications of key personnel**
- **Technical expertise, past experience, and technical facilities of the participating institution(s)**
- **Assessed level of risk inherent in the proposed design**
- **Strength of the scientific team supporting the Proposal**

Review Committee membership is determined by NRAO, with NSF consent.

Award Pool

- **Projects (FY2017 and FY2018 Project budgets combined)**
 - \$11 M total
 - \$1.5 M maximum individual award ANUALLY for a period of 2 to 3 years
 - Typical Project award \$2.0 M to \$3 M
- **Studies**
 - \$2.5 M for Strategic Studies; \$0.4 M maximum individual award
 - \$0.5 M for General Studies; \$0.2 M maximum individual award
- **Total Cycle 5 Award Pool: \$14 M**
- **Sufficient resources to fund a portfolio of approximately 8 Studies and 3 Projects in Cycle 5**
- **The entirety of available funds will not necessarily be awarded; awards are merit-based.**

Award Pool is contingent upon Federal funding and NSF budget.

NA Development Cycle 5

Timetable – Call for Project Proposals

Milestone	Date
Release of Call for Project Proposals	10 October 2016
Coordination Meeting	17 October 2016
Notice of Intent due	30 November 2016
Proposer's Questions submitted no later than	16 December 2016
Project Proposal Deadline	30 January 2017
Blackout from 30 January to	01 December 2017
Notification of Project Awards	01 December 2017
Validity Date of Project Proposals	01 December 2017
Project Start Date	01 December 2017
Project Finish Date	30 September 201X

Projects will be awarded in Q1 FY2018.

NA Development Cycle 5

Timetable – Call for Study Proposals




Milestone	Date
Release of Call for Study Proposals	01 March 2017
Coordination Meeting	08 March 2017
Notice of Intent due	15 March 2017
Proposer's Questions submitted no later than	12 April 2017
Study Proposal Deadline	01 May 2017
Blackout from 01 May to	31 July 2017
Notification of Study Awards	31 July 2017
Validity Date of Study Proposals	31 July 2017
Study Start Date	02 October 2017
Study Finish Date	30 September 201X

Studies will be awarded in Q4 FY2017.

NA Development Cycle 5

Master Schedule - NA ALMA Development Program

Projects	FY2016						FY2017									FY2018														
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Cycle 1																														
Cycle 2																														
→ Cycle 5																														
Studies	FY2016						FY2017									FY2018														
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Cycle 3																														
Cycle 4																														
→ Cycle 5																														

-  *Call for Proposals*
-  *Review and Select Study or Project*
-  *Conduct Study or Project*

Cycle 5 Projects may extend into FY2020.

Information Sources

- **NRAO Website:** <https://science.nrao.edu>
- **Program Scientist Contact Information**
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Responses to each general inquiry will be shared with all Proposers.

Summary

- **Release date for Cycle 5 Call for Project Proposals 10 October 2016**
- **Release date for Cycle 5 Call for Study Proposals 01 March 2017**
- **Detailed instructions for Proposal preparation will be included in the Cycle 5 Call for Proposals**
- **All Proposals will be evaluated and ranked by an independent Review Committee**
- **Total Cycle 5 award pool is \$14 M (contingent upon Federal & NSF budgets)**
- **Studies will be awarded on 31 July 2017**
- **Projects will be awarded on 01 December 2017 (contingent upon ALMA Board review and approval)**

Thank you for your interest and participation.