2005 Current Fiscal Year Report: Earth Science and Applications From Space Strategic Roadmap Committee

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1. Department or Agency	2. Fiscal Year
National Aeronautics and Space Administration	2005

3. Committee or Subcommittee	3b. GSA Committee No.
Earth Science and Applications From Space Strategic Roadmap Committee	24629

4. Is this New During Fiscal Year?	5. Current Charter	6. Expected Renewal Date	7. Expected Term Date
Yes	12/23/2004	12/23/2006	03/23/2006

8a. Was Terminated During FiscalYear?	8b. Specific Termination Authority	8c. Actual Term Date
Yes	NASA Administrator Letter to Congress, 4/28/05	05/22/2005

9. Agency Recommendation for Next FiscalYear	10a. Legislation Req to Terminate?	10b. Legislation Pending?
Terminate		

11. Establishment Authority Agency Authority

12. Specific Establishment Authority	13. Effective Date	14. Commitee Type	14c. Presidential?
NASA Administrator Letter to Congress, 12/23/04	12/23/2004	Ad hoc	No

15. Description of Committee Other Committee

16a. Total Number of Reports 1

16b. Report Date	Report Title
05/21/2005	Exploring our Planet for the Benefit of Society, NASA Earth Science and Applications from Space Strategic Roadmap

Number of Committee Reports Listed: 1

17a. Open 3 **17b. Closed** 0 **17c. Partially Closed** 0 **Other Activities** 0 **17d. Total** 3

Meetings and Dates

Purpose	Start	End
Committee discussion of: (1) the challenges and opportunities in Earth science and applications from space, (2) the vision of the future for Earth science and applications from space, and (3) the critical issues and objectives for Earth science and applications from space.	01/26/2005	01/27/2005

Identification of joint interests with Sun-Solar System Connection Roadmap effort. Subcommittee reports (Explorations, Continuous Awareness, and Maintaining Perspective). Discussion of stages and pathways framework. Discussion of NASA activities mapped to objectives/stages/pathway framework. Discussion of key program milestones, options, and decision points. Subcommittee assignments for development of draft roadmap document.	03/16/2005 - 03/17/2005
Draft strategic roadmap report presentation developed by NASA staff based on subcommittee and individual member inputs. Review and discussion of strategic roadmap report presentation. Consensus on modifications to presentation version of roadmap report. Agreement on direction for direction for document version of strategic roadmap report. Subcommittee and individual editorial assignments for document version of strategic roadmap report.	05/11/2005 - 05/12/2005

Number of Committee Meetings Listed: 3

	Current FY	Next FY
18a(1). Personnel Pmts to Non-Federal Members	$0.00	$0.00
18a(2). Personnel Pmts to Federal Members	$95,064.00	$0.00
18a(3). Personnel Pmts to Federal Staff	$143,252.00	$0.00
18a(4). Personnel Pmts to Non-Member Consultants	$0.00	$0.00
18b(1). Travel and Per Diem to Non-Federal Members	$17,312.00	$0.00
18b(2). Travel and Per Diem to Federal Members	$4,808.00	$0.00
18b(3). Travel and Per Diem to Federal Staff	$1,505.00	$0.00
18b(4). Travel and Per Diem to Non-member Consultants	$0.00	$0.00
18c. Other(rents,user charges, graphics, printing, mail, etc.)	$102,137.00	$0.00
18d. Total	$364,078.00	$0.00
19. Federal Staff Support Years (FTE)	1.00	0.00

20a. How does the Committee accomplish its purpose?

The Committee drew on the expertise of its members and other sources to develop a roadmap document with observations, advice, and recommendations to NASA on research and technology development to advance Earth observation from space, improvement of scientific understanding, and demonstration of new technologies with the potential to improve future operational systems. The Committee established subcommittees/task forces on three aspects of future Earth Science missions (Exploration/Discovery, Continuous Awareness, and Developing Perspectives) that reported their findings and recommendations to the full Committee.

20b. How does the Committee balance its membership?

NASA selected scientists from backgrounds including observation-based as well as model-based research, from geographically distributed academic institutions, Government, and industry.

20c. How frequent and relevant are the Committee Meetings?

The Committee held three meetings between January and May of 2005 in order to develop consensus on the final document in an open and transparent manner.

20d. Why can't the advice or information this committee provides be obtained elsewhere?

The Earth system is a complex. The major components (e.g., the oceans, atmosphere, solid earth, life, etc.) interact in many complex ways at many different timescales. The state of the Earth system influences our daily lives, and new scientific understanding of the Earth often has direct and practical applications. Understanding the Earth as an integrated system requires an integrated approach that reflects the interests of the diverse set of Earth science and applications from space stakeholders. Such an approach is best developed in consultation with members of these stakeholder communities.

20e. Why is it necessary to close and/or partially closed committee meetings?

All meetings were open

21. Remarks

Designated Federal Officer

Gordon Johnston DFO

Committee Members	Start	End	Occupation	Member Designation
Abdalati, Waleed	12/28/2004	05/22/2005	NASA Goddard Space Flight Center	Regular Government Employee (RGE) Member
Andreoli, Leopold	12/28/2004	05/22/2005	Northrop Grumman Space Technology	Special Government Employee (SGE) Member
Birk, Ronald	12/28/2004	05/22/2005	NASA Headquarters Earth-Sun System Division	Ex Officio Member
Brooks, Walter	12/28/2004	05/22/2005	NASA Ames Research Center	Regular Government Employee (RGE) Member
Dangermond, Jack	12/28/2004	05/22/2005	ESRI	Special Government Employee (SGE) Member
Evans, Diane	12/28/2004	05/22/2005	NASA Jet Propulsion Laboratory	Special Government Employee (SGE) Member
Figueroa, Orlando	12/28/2004	05/22/2005	NASA Science Mission Directorate	Regular Government Employee (RGE) Member
Gail, William	12/28/2004	05/22/2005	Vexcel Corporation	Special Government Employee (SGE) Member
Hartman, Colleen	12/28/2004	05/22/2005	National Oceanic and Atmospheric Administration	Regular Government Employee (RGE) Member
Johnson, Roberta	12/28/2004	05/22/2005	University Corporation for Atmospheric Research	Ex Officio Member
Kaye, Jack	12/28/2004	05/22/2005	NASA Headquarters Earth-Sun System Division	Ex Officio Member
Kennel, Charles	12/28/2004	05/22/2005	Scripps Institution of Oceanography	Special Government Employee (SGE) Member
Komar, George	12/28/2004	05/22/2005	NASA Earth Science Technology Office	Ex Officio Member
Kummerow, Christian	12/28/2004	05/22/2005	Colorado State University	Special Government Employee (SGE) Member
Penner, Joyce	12/28/2004	05/22/2005	University of Michigan	Special Government Employee (SGE) Member

Rotman, Douglas	12/28/2004	05/22/2005	Lawrence Livermore National Laboratory	Special Government Employee (SGE) Member
Siegel, David	12/28/2004	05/22/2005	University of California, Santa Barbara	Special Government Employee (SGE) Member
Skole, David	12/28/2004	05/22/2005	Michigan State University	Special Government Employee (SGE) Member
Solomon, Sean	12/28/2004	05/22/2005	Carnegie Institution of Washington	Special Government Employee (SGE) Member
Zlotnicki, Victor	12/28/2004	05/22/2005	NASA Jet Propulsion Laboratory	Special Government Employee (SGE) Member

Number of Committee Members Listed: 20

Narrative Description

Earth science and applications from space is an important part of NASA's mission, directly addressing "to understand and protect our home planet." Broad-based planning for NASA's future will result in science that is relevant and that has vital applications to the challenges facing future generations.

What are the most significant program outcomes associated with this committee?

	Checked if Applies
Improvements to health or safety	☐
Trust in government	☐
Major policy changes	☐
Advance in scientific research	☑
Effective grant making	☐
Improved service delivery	☐
Increased customer satisfaction	☐
Implementation of laws or regulatory requirements	☐
Other	☐

Outcome Comments

Advances in scientific research for improved understanding of the Earth should in the long-term lead to practical applications for improved health and saftey, etc.

What are the cost savings associated with this committee?

	Checked if Applies
None	☐
Unable to Determine	☑
Under $100,000	☐
$100,000 - $500,000	☐
$500,001 - $1,000,000	☐
$1,000,001 - $5,000,000	☐

$5,000,001 - $10,000,000 ☐
Over $10,000,000 ☐
Cost Savings Other ☐

Cost Savings Comments
An integrated approach to future mission planning should support and improve the effective use of the Governments investment in Earth science and applications from space.

What is the approximate Number of recommendations produced by this committee for the life of the committee?
4

Number of Recommendations Comments
The Committee's report lays out a general strategy with numermous long-term implications. In addition, the report includes four specific near-term recommendations.

What is the approximate Percentage of these recommendations that have been or will be Fully implemented by the agency?
0%

% of Recommendations Fully Implemented Comments
This is a long-term plan that will take decades to bring to fruition.

What is the approximate Percentage of these recommendations that have been or will be Partially implemented by the agency?
0%

% of Recommendations Partially Implemented Comments
The recommendations (including the near-term recommendations) will take years to implement.

Does the agency provide the committee with feedback regarding actions taken to implement recommendations or advice offered?
Yes ☐ No ☑ Not Applicable ☐

Agency Feedback Comments
NA

What other actions has the agency taken as a result of the committee's advice or recommendation?

	Checked if Applies
Reorganized Priorities	☐
Reallocated resources	☐
Issued new regulation	☐
Proposed legislation	☐
Approved grants or other payments	☐
Other	☐

Action Comments

NA

Is the Committee engaged in the review of applications for grants?

No

Grant Review Comments

NA

How is access provided to the information for the Committee's documentation?

	Checked if Applies
Contact DFO	✓
Online Agency Web Site	☐
Online Committee Web Site	☐
Online GSA FACA Web Site	☐
Publications	☐
Other	☐

Access Comments

NA