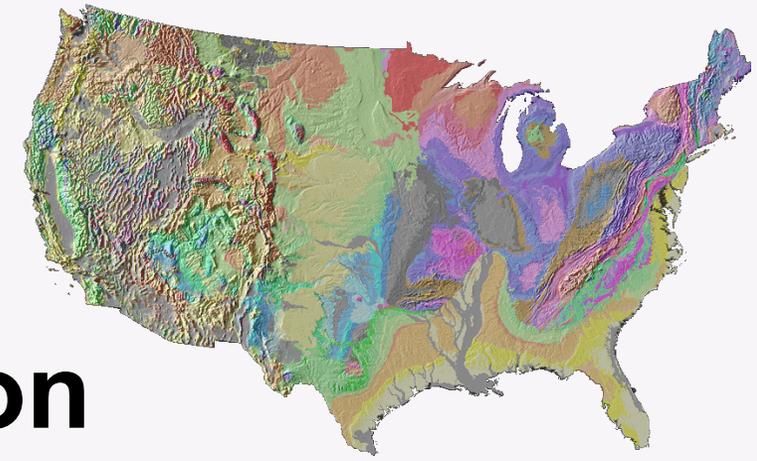


STATEMAP Program

“STATEMAP Proposal Preparation Webinar”



Darcy McPhee

Associate Program Coordinator, NCGMP and Program Officer, STATEMAP

Mike Marketti

Program and Budget Analyst, NCGMP

Kim Dove

Grants Specialist, STATEMAP

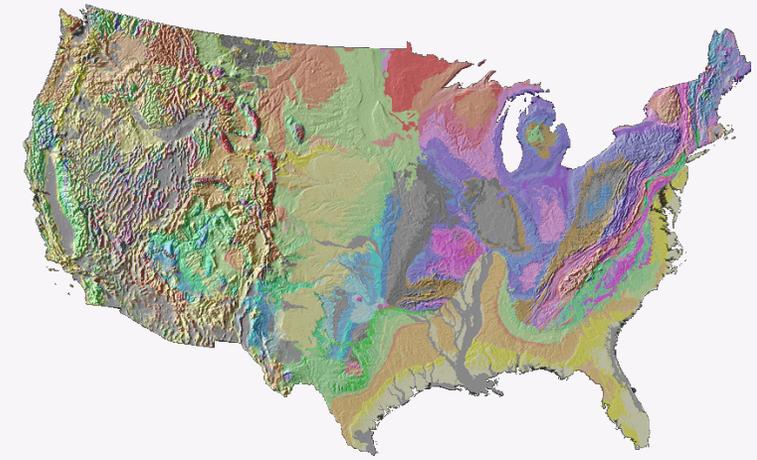
STATEMAP Proposal Preparation Webinar, September 20, 2019

Core Science Systems

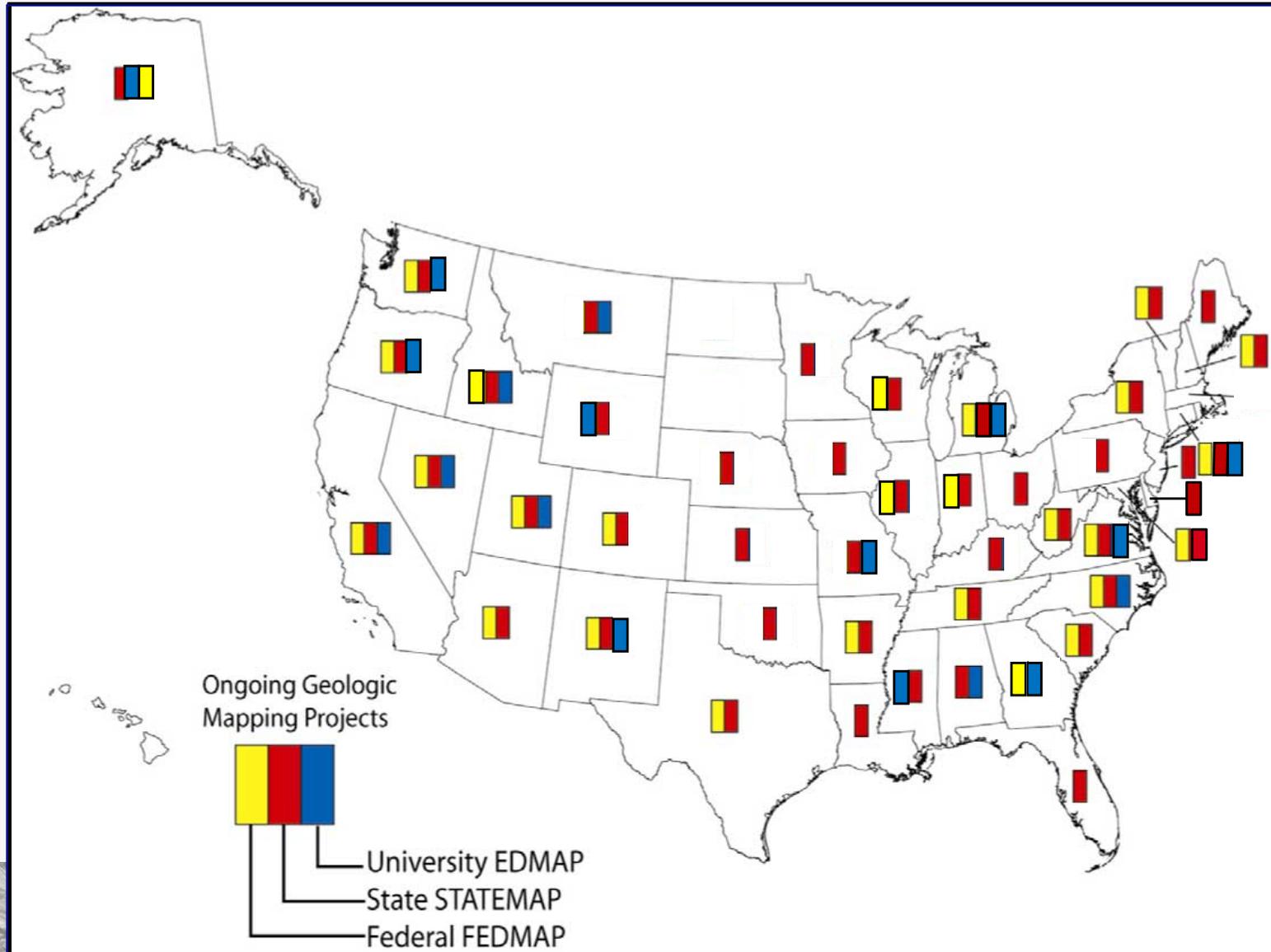
National Cooperative Geologic Mapping Program

STATEMAP Proposal Preparation

- NCGMP Program Update
- FY20 PA Changes
- STATEMAP Evaluation Process
- STATEMAP Evaluation Criteria- Recommendations
- Best Practices
- Deliverables
- Future



NCGMP 2019



FEDMAP: 15 USGS regional geologic mapping and research projects, federal lands, several projects partnering with NPS

STATEMAP: 44 State Geological Surveys (\$5.6M federal funds)

EDMAP: 24 University Agreements (\$429K federal funds)



Current FEDMAP FY19 Projects

Gregory Walsh	Northeast Bedrock Mapping Project	NY, NH, VT, CT
Kyle House	Lower Colorado River System Project	AZ, CA, NV, UT
Ren Thompson and Joe Colgan	Intermountain West Geologic Framework Integration Project	CO, NM, UT, AZ, NV
Mark Hudson	Ozark Dome – Arkoma Basin – Ouachita belt Transect (ODABOuT)	AR
Robert E. Powell	San Andreas Fault System in Southern California (SAFSOC-2)	CA
Victoria Langenheim	Southern Pacific and Sierra Earthquake and Water Studies	CA
Jon Hagstrum	North Pacific Border, Cascades and Columbia Plateau Project	OR, WA, ID
Ric Page	US-Mexico Borderlands Geologic Framework	AZ, TX
Andy Cyr	Western Basin and Range- Eastern California Shear Zone	CA, NV, AZ
Kevin Schmidt	GeoMapping for Integrated Science	CA
Cal Ruleman	Denali Hazards Mapping Project	AK
Chris Swezey	Great Lakes and North Central Lowlands Project	WI, IL, MI, IN
Mark Carter and Arthur Merschat	Blue Ridge and Piedmont Project	VA, NC, TN
David Weary	Valley and Ridge/ Appalachian Basin Project	WV, VA, MD
Wright Horton	Coastal Basement Geology of the SE U.S.	SC, GA





Current FY19 EDMAP Projects

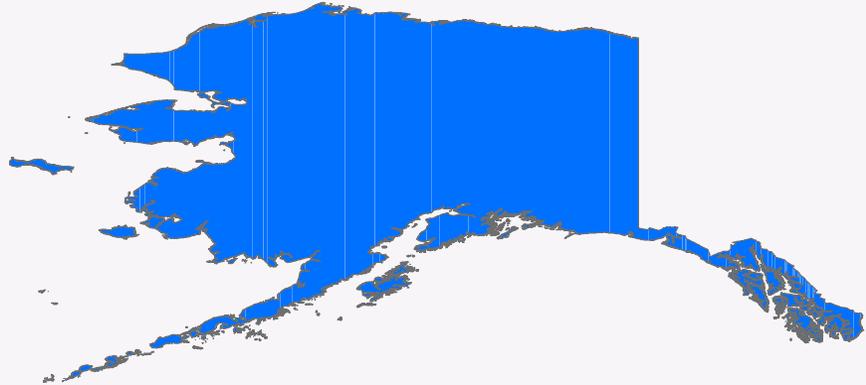
University	PI	State
University of Wyoming	Carol D. Frost and B. Ronald Frost	WY
Illinois State University	David Malone	WY
Montana Tech of the University of Montana	Larry Smith	MT
Montana Tech of the University of Montana	Chris Gammons	MT
University of Mississippi	Ron Counts	MS
University of Missouri-Kansas City	Richard Gentile	MO
Michigan Tech University	James DeGraff	MI
Kent State University	David Hacker	UT
University of Cincinnati	Craig Dietsch	CT
Missouri State University	Matthew McKay	AL
Idaho State University	Glenn Thackray	ID
Florida State University	James Tull	GA
College of William and Mary	Christopher Bailey	VA

University	PI	State
North Carolina State University	Karl Wegmann	NC
University of Oregon	Josh Roering	OR
University of Southern California	Scott Paterson	CA
University of South Alabama	David Allison	AL
Missouri State University	Gary Michelfelder	NM
University of Nevada- Reno	Stacia Gordon	WA
Portland State University	Martin Streck	OR
University of Michigan	Nathan Niemi	CA, NV
University of Alaska-Fairbanks	Elisabeth Nadin	AK
Purdue University	Kenneth Ridgway	AK
University of Alabama	Rebecca Minzoni	AL

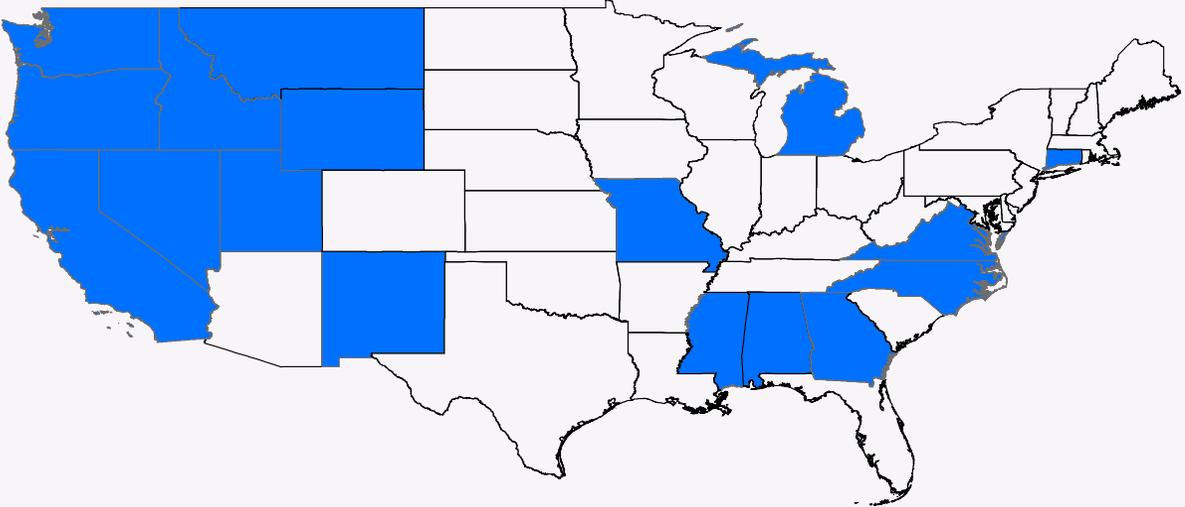




EDMAP FY19 Update



- 24 Awards, 28 students, mapping in 18 different states





STATEMAP FY20

- The StateMap Program Announcement will be posted on Grants.gov soon (exact date TBD)
- Proposals are due in November
- There is a \$300K cap on proposals
- Thank you for your continued participation in STATEMAP and STATEMAP Webinars!
- Your feedback is appreciated!





Downloading STATEMAP PA from Grants.gov

- Search by G20AS00006 (Opportunity Number) or STATEMAP (Keyword or Title)
- Once Grant Opportunity is open, to get to the program announcement:
 - Click on Blue Tab “Package”
 - Click on “Preview” under Actions in the gray bar
 - Click on “Download Instructions” at the end of the blue bar beginning with “Package Forms” (right above where Mandatory Forms are listed)



STATEMAP Changes- FY20

- Digitization projects no longer supported
- Recommended but NOT required to submit 4 or less projects
- Removed the following statement/recommendation: “The result envisioned for the digital compilation project is a 1:100,000 scale digital geologic map that will eventually become part of the State database and the National Geologic Map Database.”
- Derivative Maps allowed for previous year’s mapping
- References no longer included in 20-page limit
- Example Maps- ***PO will choose published STATEMAP map from NGMDB***
- Review Criteria #5- Example Map: Changed ‘products’ to ‘map publications’
- GeMS Requirement (*next slide*)





New GeMS Requirement- STATEMAP FY20

Background:

NCGMP is phasing in a new requirement that the GeMS standard be adopted for all newly published STATEMAP-funded maps. NCGMP recognizes that many state surveys do not currently have the resources and GIS capabilities to support GeMS compliance, and so proposes a **three-year transition to full GeMS compliance.**





GeMS Background

- GeMS was designed as a publication format, not a ‘working-level’ research database- Agencies are encouraged to manage their geologic map data however they conclude is most practical
- GeMS is stable and will not change significantly in the foreseeable future; it is in the final stages of USGS publication. However supporting documentation and software tools will evolve as needed
- NGMDB (the National Geologic Map Database) will build and maintain the nationwide GeMS repository
- 3 levels of compliance
- NCGMP formed a GeMS Working Group to guide the process of program-wide implementation



New GeMS Requirement- STATEMAP FY20

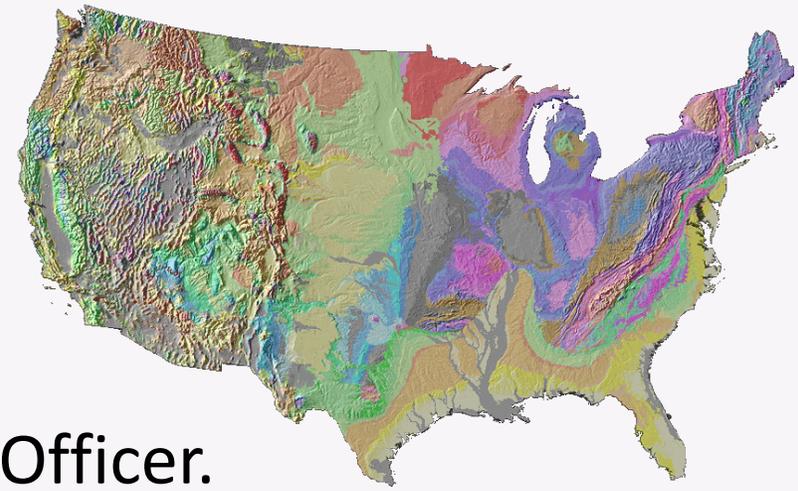
Each year, we will require an additional level of GeMS compliancy according to the following levels

(see <https://ngmdb.usgs.gov/Info/standards/GeMS/draftimplplan.pdf> for more details):

- **Level One (FY20)– A geologic database in GIS format that adheres to GeMS topology requirements, and stratigraphic nomenclature differences with Geolex are documented,**
- Level Two (FY21) – Level One requirements, plus the GeMS schema is implemented for the map (but only specified fields must have appropriate content), and the GeMS validation script must be run,
- Level Three (FY22)-- Level 2 requirements, plus legitimate content for all required fields not noted for Level 2. Also, population of optional fields is strongly encouraged.



Proposal Evaluation Process



- Proposals are reviewed for completeness by the Program Officer, Program Analyst, and Contracting Officer.
- They are then shared with the Evaluation Panel consisting of 4 State Geologists and 3 USGS Geologists.
- Each proposal is evaluated based on the criteria set forth in the Program Announcement.
- Proposals are rated individually and panel member scores are recorded in the Program Management System.





Proposal Evaluation Process (cont.)

- Proposals are reviewed at a face-to-face panel meeting in January, 2019 to discuss the merits of each proposal.
 - Revisions to original rating scores are recorded.
 - Panel feedback is compiled, to be included in Decision Letters.
- Program Office requirements are also evaluated such as on-time deliverable completion and NGMDB updates, required documents (ex. Data Management Plan), and adherence to budget allowable expenses.
- Awards are based on panel rating scores and their funding recommendations as well as programmatic requirements as stated in the Program Announcement.





Proposal Evaluation Criteria

1. State Mapping Advisory Committee (10 points).
2. Purpose and Impact of geologic mapping (20 points).
3. Technical Quality of the Proposal (25 points).
4. Budget Clarity and Justification (15 points)
5. *Map Publications* from previous STATEMAP cooperative agreements (30 points).





Criterion 1

STATEMAP Advisory Committee (10 points)

- Is the committee broad based and balanced?
- Is a letter from the committee chair included?
- Does the letter explain both the State's mapping priorities, the process by which priorities were reached, and the long-term mapping plan?
- Are the names, affiliations, and expertise of each committee member listed?





SMAC: recommendations

- The SMAC letter should describe how the mapping projects were prioritized and selected (it should not be a summary of proposed projects).
- If the long-range mapping plan is described in the proposal, the SMAC letter should refer to it. Otherwise, the SMAC Chair should briefly discuss the plan (no need to describe the plan twice).
- SMAC letter should be a maximum of 4 pages long (not including list of members).
- Voting SMAC members should not be personnel on proposed projects.
- Virtual attendance is encouraged.
- Include a list of members, affiliations, and expertise.





List of SMAC members

Name	Affiliation	Expertise	Attended meeting	Voting member
Fred Flintstone	Hardrock Mine	Rubble mover	Yes	Yes
Barney Rubble	Softrock Quarry, Inc.	Alchemy	No	Yes
Cap'n Crunch	High Seas Academy	Oceanography	Yes	Yes
Willie Coyote	ACME, Inc.	Excavation	Yes	No

* Voting SMAC members cannot be listed on any projects.





Recommendations: Letters of Support

- Letters of support other than those required will not be reviewed by the Panel.
- Required letters of support:
 - SMAC Letter
 - Letter supporting Statement of Outcome
 - Letters of commitment from volunteers or in-kind services where necessary





Criterion 2

Purpose and Impact of geologic mapping (20 points)

- How well does the proposal relate to the State Geological Survey's intermediate to long-range plan?
- How well does the proposed mapping respond to societal or customer needs?
- How well does the proposed mapping address Secretarial priorities and the goals of the National Geologic Mapping Act?
- Is a 'Statement of Outcome' provided? Does it show how one of your state's recently published STATEMAP products was used by another organization or person? Is a letter from this organization or person included that states the impact or benefit of the geologic map or how it was a critical component of their decision-making process?





Criterion 3

Technical Quality of the Proposal (25 points)

- Is the proposal well-written and concise?
- How well does the proposal demonstrate the scientific and technical viability of the proposed objectives?
- Do the deliverables for each project adequately relate to the proposed project?
- Does the proposal stress relevant and new scientific contributions?





Recommendations: Technical Quality

- Clearly define new mapping vs. a compilation project.
- Clearly define mapping strategy.
- Be consistent in writing project descriptions making sure that style and section formatting are the same throughout the proposal.
- The use of tables and charts for clarity and conciseness is encouraged.





Criterion 4

Budget Clarity and Justification (15 points)

- Does the overall budget have a 1:1 match of Federal and State funds?
- Does the budget clearly show each employee by name, salary rate, and length of time employed on each project?
- Is the proposed staff sufficient to accomplish the proposed goals?
- Are all field expenses, supplies, and other expenses reasonable and adequately itemized?
- Are all items included as direct costs appropriate?
- Are contract employees clearly distinguished from those already on the State Geological Survey payroll?





Recommendations: Budget

- Costs for mileage – make sure that they are reasonable. When creating your mapping strategy, do your best to show efficiency when you can.
- Rate of compensation
 - In one column provide the salary as a rate (annual salary, pay amount per hour).
 - In another column tell us how many months, hours, or percentage of the year the person will be working on the project.
- If you use a generic “units” column, then please annotate the actual units next to the item.





Recommendations: Conference Travel

- Travel expenses not to exceed \$2K are allowed for ONE staff member to attend ONE scientific conference/workshop.
- Staff member should be identified.
- A detailed breakdown of all ‘estimated’ costs should be provided.
- Conference travel fund requests for contractors is prohibited.
- States may match up to \$2K for conference travel funds for the SAME staff member.





Recommendations: Budget Explanation and Justification

- This section should explain and justify, in detail, your budget. It is important that you itemize your supplies, laboratory and drilling expenses, travel expenses, and any unusual costs in this section.
- Describe estimated field vs. office time.
- Do not roll up costs – they must be itemized!
- The budget and budget justification section should be consistent with mapping strategy section.
- You cannot use current year's STATEMAP funding to work on previous STATEMAP products (*unless it is for derivative maps according to the guidance*).





Criterion 5

Map Publications from previous STATEMAP cooperative agreements (30 points)

- What is the quality of the map deliverables and do they include the components necessary to convey the geology of the quadrangle or mapped area?
- Have all deliverables been submitted in a timely fashion?
- Has the state survey updated the National Geologic Map Database?





Recommendations: Example Maps

- **The STATEMAP Program Officer selects a published geologic map from your most recent submission to the National Geologic Map Database.**
- The STATEMAP Panel reviews digital .pdfs of your maps.
- In the case that a particular map has several plates, all plates may be included at the discretion of the Program Officer. (However- additional plates are NOT required)
- Accompanying pamphlets/reports will not be provided for the Panel for review.





National Geologic Map Database (NGMDB) Requirements

- For all published maps and reports for which STATEMAP funding was received in previous years, provide the specified bibliographic information (citation, link, GIS data information, pdf) for the Map Catalog.
- In your proposal, indicate that this has been or has not been accomplished.
- You are strongly encouraged to submit non-STATEMAP-funded maps as reports as well.
- Publication information should be entered into the National Geologic Map Database (<http://ngmdb.usgs.gov/Info/partners.html>).
- See <http://ngmdb.usgs.gov/Info/partners.html> or contact Dave Soller (drsoller@usgs.gov) for details





STATEMAP: Best Practices

- Read the Program Announcement.
- Follow the Proposal Format Instructions and order (Part II, Section C) and include the appropriate information in each document or section.
- Print out the Proposal Evaluation Criteria and have it with you whenever you are writing the proposal.
- Be sure that you convey to the Proposal Evaluation Panel that the proposal answers each criteria well.





Best Practices

- Bundle all documents into one PDF for submission.
- Always include an overview/Index map of your mapping projects for context at the beginning of your proposal.
- **Include the name or citation of the Level One GeMS database deliverable.**
- When creating the budget, if you have a question about what are allowable costs and what are not allowable - CALL ME.
- Proofread!





Best Practices

- Adhere to the page and font size limits (4 pages for SMAC, 20 pages for Technical Section [*excluding references*], 1 page for Outcome Statement, minimum of 11 pt font).
- Triple check your budget numbers.
- Be Clear and Concise- do and not leave it to the panel members to read between the lines or to make assumptions.
- Graphics – only include figures and charts that will benefit your proposal. Refer to them in the text and label them appropriately.





The Bottom Line...

- Write clearly, thoroughly, and concisely.
- Proofread all documents.
- Thoroughly check your budget calculations and ensure that there is a 1:1 Fed/State match on the total budget.
- Call the Program Officer with any questions.
- Submit your proposal on time!





Best Practices- Revisions

- Always submit a revised form SF 424 (signed).
- Always submit a revised Summary Sheet that also includes the revised deliverable list.
- Always include budget revisions for each project AND the total overall cost.
- Always include a narrative of what has changed from your original proposal.





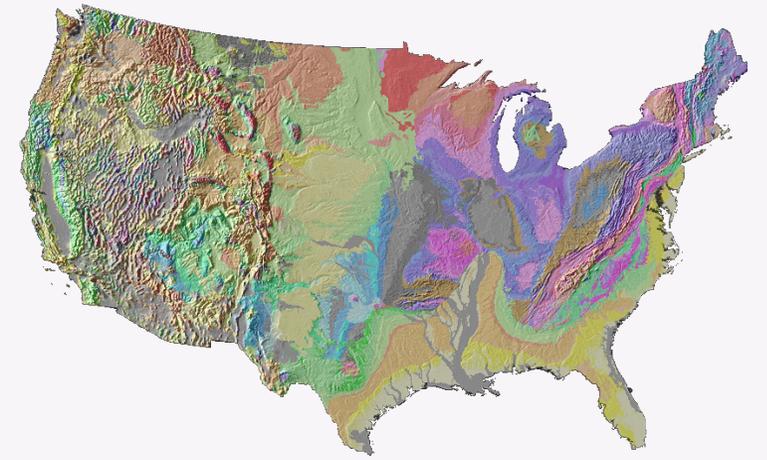
Future...

- Continued DOI approval requirements
- Deliverables uploaded through management system
- Webinar on GeMS in FY20
- Additional GeMS support
- Level Two GeMS Geologic Map Schema requirement (if additional funding)
- NCGMP Website





Questions?





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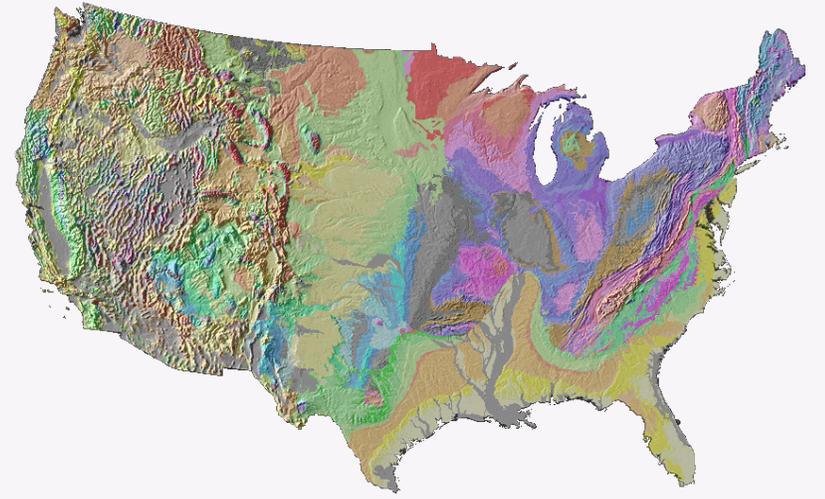
703-648-6942

Kim Dove, Grants Specialist

kdove@usgs.gov



Thank you.



STATEMAP Proposal Preparation Webinar, 2019
National Cooperative Geologic Mapping Program



Goals of the Geologic Mapping Act

- Determine the Nation's geologic framework through the systematic development of geologic maps; such maps will contribute to the National Geologic Map Database.
- Develop complementary national databases (e.g., geophysical and paleontologic databases) that provide value-added information to the National Geologic Map Database.
- Apply cost-effective mapping techniques that assemble and disseminate geologic-map information, and that render such information of greater application and benefit to the public.
- Develop public awareness of the role and application of geologic-map information to the resolution of national issues of land use management.





DOI Secretarial Priorities

- Create a conservation stewardship legacy second only to Teddy Roosevelt.
- Sustainably develop our energy and natural resources.
- Restore trust and be a good neighbor.
- Ensure tribal sovereignty means something.
- Increase revenues to support the Department and national interests.
- Protect our people and the border.
- Strike a regulatory balance.
- Modernize our infrastructure.
- Reorganize the Department for the next 100 years.
- Achieve our goals and lead our team forward.

