

**AYK SSI 2015 Invitation to Submit Research Proposals**

**SUBMISSION INSTRUCTIONS & PROPOSAL FORMAT**

**INTRODUCTION:**

The Arctic-Yukon-Kuskokwim Sustainable Salmon Initiative (AYK SSI) is pleased to release its 2015 Invitation to Submit Research Proposals. Under the 2015 Invitation up to **$3M** is available for funding of research projects for up to three years in duration addressing the region’s declined Chinook salmon populations. Funding for this Invitation is provided to the AYK SSI Program through NOAA’s Pacific Coastal Salmon Recovery Fund and NOAA federal fisheries disaster funds administered by the Pacific States Marine Fisheries Commission.

**2015 Invitation Overview:**

|  |  |  |
| --- | --- | --- |
| Invitation Release Date: |  | January 27, 2015 |
| 2015 Funding Level: |  | Up to $3M |
| Duration of Projects: |  | Up to a maximum of three years in duration*(Final End Date for three year projects: June 30, 2018)* |
| **Proposal Deadline:**  |  | **March 18, 2015** |
| Final Selection of Proposals for Funding: |  | By June 30, 2015 |
| Project Start Dates: |  | July 15, 2015 or later |

The 2015 Invitation has three components:

1. **2015 Research Priorities** ([download here)](http://www.aykssi.org/announcement-of-2015-ayk-ssi-research-priorities/) lists five priority “Research Themes” focusing on Chinook salmon as the species of special concern.
2. **Proposal Submission Instructions & Format** (see below) ([download here](http://www.aykssi.org/2015-invitation-to-submit-research-proposals/)) (MS Word file) provides instructions, formatting requirements and the proposal template required for submission as well as information about our online proposal submission system.
3. **AYK SSI Budget Forms** ([download here](http://www.aykssi.org/2015-invitation-to-submit-research-proposals/)) (MS Excel file) provides instructions and required budget forms that must be uploaded to the online proposal submission system along with your completed proposal narrative.

**PROPOSAL SUBMISSION DEADLINE:**

**Deadline for submission is March 18, 2015, 5:00 PM (AK time).** In the interest of fairness, proposals submitted after the deadline will not be considered.

**SUBMISSION INSTRUCTIONS:**

**All investigators should submit their proposal via the** [**AYK SSI Online Submission System**](http://cfsvc.axiomalaska.com/AYKSSI/extranet/Proposal/Login.cfm)**.** NOTE: Under extraordinary circumstances wherein you do not have access to a reliable internet connection, or you do not receive an email confirmation within two hours confirming your submission from the AYK SSI Online Submission System, please see details of email submission.

**Online Submission:**

**Online submission will be available from February 15, 2015** until the proposal deadline on **March 18, 2015, 5:00 PM (AK time).**

Prior to uploading their proposal materials, investigators create an account on the [AYK SSI Online Submission System](http://cfsvc.axiomalaska.com/AYKSSI/extranet/Proposal/Login.cfm). These investigator accounts will remain active until the submission deadline or until the full proposal package is finalized and formally submitted.  Investigators will be required to use submission forms as well as to upload their proposal file. All proposals must be prepared using the format described below.  Investigators have the ability to modify any information provided to the system at any time prior to clicking on the final Submit button or until the proposal deadline.

Once all required fields have been filled in, a final submission and confirmation page will appear. Once you click the Submit button, you will receive an email confirmation.

**Email Submission:**

If you do not receive an email within two hours at the address you provided in the AYK SSI Online Submission System confirming your submission from the AYK SSI Online Submission System, you must:

**Email your proposal** to katie.williams@bsfaak.org (AYK SSI Program Manager, Katie Williams) making sure you save a copy of the email confirmation you will receive.

**Note:** Regardless of your method of submission, you must ensure that you obtain a written confirmation of the successful submission of your proposal.

**Feel free to contact AYK SSI staff with questions:**

* For questions regarding addressing program priorities, linkages to previously funded works, project collaboration and capacity building, please contact the **AYK SSI Research Coordinator**: **Dr.** **Joseph Spaeder,** jjspaeder@earthlink.net, (907) 299-8635.
* For questions regarding the Excel budget forms, formatting or submission issues, please contact the **AYK SSI Program Manager: Katie Williams**, katie.williams@bsfaak.org, (907) 279-6519 ext. 2 (toll free 888-927-2732).

**GENERAL INSTRUCTIONS:**

* Submit your proposal through the [AYK SSI Online Submission System](http://cfsvc.axiomalaska.com/AYKSSI/extranet/Proposal/Login.cfm).
* Proposal and Curriculum Vitae (CV) should be prepared and submitted in MS WORD using Times New Roman 11 point. Include a one page CV for each project investigator. CVs exceeding one page will not be accepted.
* Total length of the main body of the proposal, (Section II- Objectives and Project Design, excluding proposal summary, introduction, coordination, capacity building, budget pages, references and CV’s), **should not exceed 12 pages**.
* Do not change font styles or sizes of the headings and subheadings of the form.
* Delete all investigator instructions (those comments/descriptions contained in brackets listed after each heading/subheading) from the form prior to submittal of the proposal.
* Rename and save your completed MS Word proposal narrative (using the template provided below) with a new file name which includes the last name of the PI (i.e. "2015 AYKSSI Proposal [PI Last Name here].doc”). When completed, you will be uploading this MS Word file along with your proposal budget and other required documents to our AYK SSI On-line Submission System.
* Projects may start no sooner than **July 15, 2015;** and end dates may not be later than June 30, 2018.

**Note to Federal Proposing Agencies:** Federal agencies intending to submit proposals must seek prior written certification through AYK SSI as eligible to receive research funding, if awarded. Please contact the AYK SSI Program Manager: Katie Williams, katie.williams@bsfaak.org, (907) 279-6519 ext. 2 (toll free 888-927-2732).

**AYK SSI PROPOSAL TEMPLATE ­­­ 2015**

**[NOTE:** Delete investigator instructions (those comments/descriptions contained in brackets after each heading/subheading below) from the form prior to submittal of the proposal. Replace with your proposal content.]

Project Title: [Limit title to 50 characters or less.]

Investigator(s): [Names of individuals proposing the project. Include affiliation and all contact information--address, phone, fax, and email. If there are multiple proposers/principle investigators, indicate which individual will serve as the lead investigator or project manager. Please be aware that email will be the primary method of communication regarding the status of your proposal.]

Project Period: [Successful proposals submitted for the 2015 AYK SSI funding cycle will be funded up to three years. Applicants should not request a project start date before **July 15, 2015.** All projects must be completed on or before **June 30, 2018**. Final project reports are due 60 days after the project end date.]

AYK SSI Funding: [Total amount of AYK SSI funding requested.]

Matching Funds: [Encouraged but not required. List the source and amount of funds which are already secured from non-AYK SSI sources, if any, that will be applied to the proposed project, including in-kind contributions and/or donations.]

Study Location: [General geographic area in which field work will be conducted, including the watershed and tributary as appropriate (e.g., Kwethluk River watershed.) If other areas of the state that may be impacted by this study, please list these areas as well.]

Abstract: [Provide a brief (300 words or less) summary of the project in language understandable to audiences unfamiliar with your subject area. The abstract may be edited for clarity, brevity, and readability by AYK SSI staff. The abstract should be suitable for reports to Congress, the Alaska state legislature, and the public. The abstract should include a short synopsis of the following:

* + 1. The issue addressed and why the project is needed
		2. Project hypotheses and objectives (see instructions for drafting research project objectives below)
		3. Overview of research methods
		4. Anticipated impacts/ outcomes, and any measurable benefits.]

**[If the above information exceeds one page, please set a page break at the end of the additional page(s).]**

**AYK SSI PROPOSAL FORMAT ­­­ 2015**

**I. INTRODUCTION**

[Provide the background and overview of the proposed work. What problem is the project designed to address? Describe the background and history of the problem. Review the scientific literature covering the most important works related to the project. The purpose of this overview and literature review is to place the proposed research in the larger context of what work has been done, what is known, and what remains to be known.]

**II. PROJECT DESIGN**

**A. Objectives and Project Design:** [Note: Section II- Objectives and Project Design (excluding proposal summary, introduction, coordination, capacity building, budget pages, references and CV’s), constituting the main body of the proposal, **should not exceed 12 pages**.]

1. **Rational & Project Research Question:** [Briefly describe the rationale for the project, stating what the project will accomplish and why it is important in helping to restore the Chinook salmon fishery or helping prevent a similar Chinook salmon failure in the future. State the central research question that will be addressed through the project, along with any related project-specific hypotheses. A good research question should be narrow enough to address specific issues, but not so narrow that it can be addressed with a yes or no answer or the gathering of a few statistics. A well-thought-out and focused research question leads directly into hypotheses-- about the nature and direction of the relationship between two or more variables. (Example research questions are found in Chapter 5 of the [AYK SSI Chinook Salmon Action Plan (downloadable here](http://www.aykssi.org/aykssi-chinook-salmon-research-action-plan-2013/).) Once research questions and hypotheses are formulated, research objectives can be developed (see below).]
2. **Project Objectives:** [Numerically list (in the sequence of their completion) your research objectives. Objectives flow directly from the core research question(s) stated above. Many proposals fail to be recommended for funding because of poorly formulated objectives. Objectives are **not** methodological steps or lists of tasks (e.g., collect data, conduct experiments, analyze data, write report.) Research objectives identify a pattern or process to be described and can be used to evaluate research progress. Objectives should be worded to reflect the research question(s) above to be answered, the hypotheses to be tested, or the processes to be described. Objectives are the fundamental and measureable goals of your proposed work; the project objectives are what AYK SSI uses to evaluate progress and completion of the project. When little information exists to formulate questions and hypotheses then research objectives focused on description are appropriate. See **“Guidelines for Drafting Research Project Objectives”** below.]
3. **Project Responsiveness to AYK SSI 2015 Research Priorities:** [Clearly identify which of the AYK SSI 2015 Priority Research Theme(s) ([access here](http://www.aykssi.org/2015-invitation-to-submit-research-proposals/)) will be addressed through the project and briefly describe how, through implementation of the project objectives, your understanding of one or more of the priority research themes will be advanced.]
4. **Methods:** [Provide a concise overview of proposed methods, including your approach to achieving your objectives? Then, for each objective listed above, include study design, data collection procedures and analytical methods. Clearly identify the specific set of procedures needed to accomplish each objective. As appropriate, describe the statistical or conceptual model that is the basis for your work; including the experimental design, assumptions required, sample size and other relevant information. We encourage limiting this section to approximately three pages. However, this section should contain enough detail to allow a reviewer to understand how the study will be conducted, including how data will be collected and analyzed. Note: to improve clarity, the Methods section may be divided into subsections that represent different objectives of the study.]
5. **Results / Deliverable Products:** [Describe the project results and the products to be provided at the conclusion of the study, as well as their estimated completion date. Depending upon the specific study, deliverables may also include such products as electronic databases, graphics, or meetings. The AYK SSI encourages funded investigators to publish the results of their work in peer-reviewed journals. Note that AYK SSI reporting requirements include: quarterly Financial Status Reports, Semiannual Progress Reports, and a Final Project Report that describes fulfillment of objectives and includes an abstract, introduction, methods, results and discussion. The Final Project Report is due within 60 days of the project end date. Specific details about format, distribution and peer review of final reports can be found on our website ([www.aykssi.org](http://www.aykssi.org)) and will be addressed during development of funding contracts for successful proposals.]
6. **Milestones / Project Timeline:**
	1. [Using the format below specify when each project objective will be completed. Reviewers will use this information along with annual project reports to assess whether PIs are meeting objectives and are eligible for continued funding.

**Example:**

Objective 1. Develop sediment-core chronologies in lake-productivity indicators. To be met by October 2015

Objective 2. Compare sediment data corresponding to the past few decades to salmon population statistics. To be met by February 2016.

Objective 3. Reconstruct time-series of lake productivity, input of marine-derived nutrients, and salmon escapement. To be met by May 2017.]

* 1. [Estimate the beginning and completion dates for critical segments of the study, including all deliverables, and provide this information in tabular form following the examples below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TASKS** [Example only; insert tasks & details appropriate to your project.]  | **2015** | **2016** | **2017** | **2018** |
| **Start-up phase** | Sept – Dec | Jan- April |  |  |
| **Data Collection** |  | June- Aug | June- Aug |  |
| **Data Entry & Analysis** |  | Sept - Dec | Sept - Dec |  |
| **Grant Reporting / Report Writing** |  | Jan (FSR, Progress Report) | Jul(FSR, Progress Report) | Jan (FSR, Progress Report) | Jul (FSR, Progress Report) | Jan (FSR, Progress Report ) Prepare final report- Jan - July |
| **Submission of Final Report** |  | Final Report due August 30, 2018 or sooner |

**Sample Multi-year Project Schedule (Example project period 7/15/15 through 6/30/18):**

**Sample One Year Project Schedule:**

|  |  |  |  |
| --- | --- | --- | --- |
| **TASK** [Example only; insert tasks & details appropriate to your project.] | **Jan– Jun 2016**  | **Jul- Dec 2016** | **Jan 2017** |
| **Start-up phase** | Jan-March |  |  |
| **Data Collection** | Jun | July-Aug |  |
| **Data Entry & Analysis** |  | Aug-Oct  |  |
| **Report Writing** |  | Oct-Dec |  |
| **Submission of Revised Final Product** |  |  | Jan 2017 |

1. **Performance Ability and Administrative Expertise:** [Briefly summarize the investigator(s) and/or organization’s experience in performing work similar to that proposed here. Past reports or professional journal articles by the investigator(s) relevant to this proposal should be cited, and unpublished work should be briefly described as it relates to the investigator’s or organization’s ability to accomplish the objectives. Describe the field capabilities needed to carry out the study when particular equipment or technologies are essential components to conducting a study (e.g., cultural and community knowledge, sonar equipment, shop facility for weir fabrication, drift gillnet boats). Describe the organizational ability to carry out the administrative aspects of the project. Other evidence of performance ability may be attached as an appendix to the proposal. Investigator’s performance ability and administrative expertise will be evaluated on the following:

a. History of investigator’s performance on past AYK SSI projects (if applicable).

b. Individual qualifications of each investigator (including field capabilities as applicable) and their role in the project.

c. Technical and administrative expertise of the applicant organization to complete the work.

d. Summary of experience.

e. Relevant past reports and articles.]

1. **Coordination and Collaboration with Other Efforts:** [Describe the relationships and links between the proposed project and other relevant projects in progress in the AYK region. Indicate how the proposed project relates to, complements, or includes collaborative efforts with other proposed or existing projects in the same geographic or topical area. Describe any coordination that has taken or will take place and what form the coordination will take (shared field sites, research platforms, sample collection, data management, equipment purchases, etc.). If the proposed project requires collaboration with other agencies, organizations or scientists to accomplish the work, such arrangements should be fully explained. If the relationship with other proposals is unknown, or if your proposal is in conflict with another project, note this and explain why.]

**B. Capacity Building** [The purpose of this section is to ensure that local communities are aware of the proposed work, and where appropriate, opportunities for local or regional capacity building have been designed into the project. Projects must include appropriate partners and contribute, to the maximum degree possible, to the capacities of agencies, local communities, and residents of the region to participate in fishery research. Prior to submission principal investigators must have completed appropriate consultation about their project with local villages and communities in the area where the project is to be conducted (letters of support from local organizations are strongly encouraged and add to the strength of a proposal). As appropriate, investigators and their organizations should be able to demonstrate the ability to create and/or maintain effective relationships with local communities/organizations and a commitment to capacity building.

 Please provide, as applicable:

* List the local communities that may be involved at some level with the project and/or realize benefits from the project.
* Description of consultations that have been conducted as part of planning of the proposed work.
* Present a plan for how this study will develop partnerships and build the capacity of individuals, agencies, and organizations in the region to meaningfully participate in fishery research activities. Indicate whether this study would provide opportunities to develop professional capabilities and administrative skills of agencies and organizations in the region.

For additional detail on this topic, see “**Guidelines for Capacity Building in the AYK SSI Research Program” below.**]

**C. Matching Funds / Partner Contributions** [Matching funds are encouraged, but not required. What other entities, if any, have committed funding or are likely to fund the project you are proposing? If you have submitted your proposal to other potential funding sources, please describe to which source(s) it has been submitted, when a funding decision will be made, and - in the event other funding is approved - whether or not AYK SSI funds will also be needed.]

**III. BUDGET**

[**NOTE**: You must prepare your budget using the MS Excel document “AYK SSI Budget Forms 2015.xls”. A copy of this form can be [downloaded here](http://www.aykssi.org/2015-invitation-to-submit-research-proposals/).

Instructions are provided on each Excel budget worksheet.

**Additional Special Instructions:**

* **Fill in only the shaded areas on the budget forms.** The summary worksheet and appropriate un-shaded cells on other worksheets will automatically in-fill based upon figures entered in the shaded cells within the detailed budget worksheets.
* **Keep all worksheets in the same Excel workbook,** as in the accompanying document and submit as a single document along with the text of your proposal. Do not submit worksheets as separate attachments. You must rename the entire Excel workbook with a new file which includes the last name of the PI (e.g. "2015 AYKSSI Budget Forms [PI Last Name here].xls”). When completed, you will be uploading this Excel file along with your proposal narrative and other required documents to the AYK SSI Online Submission System.
* **Leave any unused worksheet/budget forms in the Excel workbook.** This is essential in order to preserve embedded formulas and ensure that the multiple worksheets sum properly.]
1. **Project Costs:** [Describe and justify the budget for each organization or agency requesting funding in this proposal using the mandatory budget categories and forms included in the MS Excel document “[2015 AYK SSI Budget Forms.xls](http://www.aykssi.org/2015-invitation-to-submit-research-proposals/)”. **NOTE: 10% of the total project funds will be held back pending submission of the Final Project Report**.

You must include in the proposal detailed narrative below text for each category providing an explanation and/or process for how the funds will be used and/or allocated. Narrative totals must equal exactly the figures in the Excel budget form. **Proposals without adequate budget narrative detail will be returned for correction**.]

* + **100 - Personnel (including Fringe Benefits):** [Include the salary detail for all employees assigned to this project. Explain the duties for each individual identified by name and position. State the time commitments such as hours and percent of time for each position. List the total charges for each person. Include all fringe benefits in correlation to the employee’s hourly wage and the number of hours to be worked in association with the proposed project. Identify what types of fringe benefits are being covered. Describe the total charges for each person listed along with an explanation of how the charges were calculated.]
* **200 - Travel:** [These costs include lodging, airfare, per diem, ground transportation and other directly-related expenses incurred while traveling for the purpose of the proposed project. Include each traveler’s name, dates of travel, purpose of travel, destination, and itemized costs to include lodging, airfare, per diem, ground transportation, etc. Identify why the requested travel is directly relevant to the successful completion of the project. If there are any actual trip details that remain unknown, please explain what the basis for the proposed travel charges. Re. Outreach: During the final year of the project, applicants must include in their travel budget the costs for at least one representative of the project to attend an annual AYK SSI research review/outreach meeting to present their results. The principal investigator(s) shall cooperate with the AYK SSI and its Program Director in developing materials for interpretation of the project and research results to the public.]
* **300 - Contractual:** [Include all expenditures associated with contractually-related activities that are directly associated with the proposed project. List each contract as a separate item. Describe the applicability to the project for each contract to be acquired.]
* **400 - Supplies:**  [Include a description of all equipment that individually costs under $5,000 and miscellaneous supplies and materials that are required for the purpose of the proposed project. Itemize supplies by type of material or nature of expense. Identify how the proposed supplies are necessary for the successful completion of the project.]
* **500 - Equipment:**  [Include items that individually cost more than $5,000. For any items of equipment whose costs exceed $5,000, a description of the item and associated costs is required. List each item of equipment being requested. For each item of equipment, please identify the number of units, cost per unit and total cost specified. Explain why each item of equipment is necessary for the successful completion of the project.]
* **600 - Indirect Costs:** [These are costs incurred by the investigating organization as a result of administering the proposed project but not directly associated with project implementation. Indirect costs generally include space rental, utilities, postage, data processing, training, safety management, affirmative action programs, administrative support, and supervisory oversight. **NOTE:** All proposals must include copy of the approved negotiated indirect cost rate document or similar verifying your indirect rate as part of your proposal package. Our intent is that institutions undertaking research apply funds to expenses directly related to the project, and have the ability to complete the project with low indirect cost rates.]
* **Matching Funds / Funds other than AYK SSI:** [Matching funds or cost-sharing is encouraged but not required for this program. However, proposals must reflect the total budget necessary to accomplish the project, including in-kind contributions and/or donations. List the source and amount of funds which are already secured from non-AYK SSI sources, if any, that will be applied to the proposed project. See additional information/instruction in the [2015 AYK SSI Budget Form](http://www.aykssi.org/2015-invitation-to-submit-research-proposals/).]
1. **Literature cited:** [Provide complete citations for all references cited in the proposal.]

**Guidelines for Drafting Research Project Objectives**

These guidelines are designed to provide direction and assistance for drafting objectives for fishery research proposals. Clear objectives are fundamental to the project design and provide the framework for evaluating project performance.  **Many proposals do not score well due to poorly formulated objectives.**

All research projects begin with either a well-framed research question or hypothesis, from which flows the research objectives. Hypotheses are possible explanations for a phenomenon whereas predictions are what you expect to occur if a hypothesis is true. Hypotheses are not to be interpreted as statements of fact, but are propositions about how the salmon system may work – a hypothesis may be true or it may be false!  A good hypothesis or research question should be narrow enough to address specific issues but not so narrow that it can be addressed with a “yes” or “no” answer or the gathering of a few statistics. Once one or more research questions or hypotheses are formulated, research objectives can be developed.

Objectives identify a pattern among a set of variables or a process to be described and can be used to evaluate research progress. Objectives should be worded to reflect or link to the research questions to be answered, the hypotheses to be tested, and the processes to be described. Good research objectives often begin with the phrase “To determine whether …”. A set of objectives are ideally related to each other. Objectives should relate directly to the research question or problem; generally, they address types of information or datasets needed to address the question or problem. They define what will be accomplished by a given point in time. Research objectives should not include descriptions of how they will be accomplished; that is objectives are **not** methodological steps (e.g., collect data, analyze data, write report). This information is presented in the methods section. When little information exists to formulate questions and hypotheses then research objectives focused on description are appropriate.

In the methods section, describe discrete, specific methods or tasks for accomplishing each objective. The methods should clearly articulate and demonstrate that they will yield the information needed to accomplish the research objectives. The figure and examples below illustrate how the methods and objectives relate to the research question or problem.

Objective 1

 Project Specific Research Question or Hypothesis

Objective 2

Objective 3

Method 1

Method 2

Method 1

Method 2

Method 1

**HYPOTHETICAL EXAMPLE #1: HYPOTHESIS-OBJECTIVES-METHODS:**

Hypothesis or Research Question:

Marine survival and growth of salmon varies due to density-dependent processes of competition and predation among salmon species and to climate change.

Objectives:

* To determine whether changes in the abundance of pink salmon and climate change are associated with changes in growth and abundance of Norton Sound chum salmon.
* To determine whether changes in the abundance of pink salmon are positively correlated with growth and abundance Unalakleet River and Kuskokwim River coho salmon.

Methods:

1. Reconstruct annual and seasonal growth indices of Kwiniuk River chum salmon, 1975-2006, based on scale pattern analysis.
2. Reconstruct Norton Sound adult chum salmon returns from each brood year using recently assembled age composition data, predictions of age composition from long-term age composition datasets, and available catch and spawning escapement data for each watershed in Norton Sound.
3. Reconstruct annual and seasonal growth indices of Unalakleet River coho salmon, 1983-2006, and Kuskokwim coho salmon, 1967-2006, based on scale pattern analysis.
4. Assemble indices of Bering Sea climate change (e.g., seasonal SST, Nome seasonal air temperature, date of ice breakup in Bering Sea, Arctic Oscillation Index, PDO, and regime shifts).
5. Etc……

**HYPOTHETICAL EXAMPLE #2: RESEARCH QUESTION-OBJECTIVES-METHODS:**

Hypothesis or Research Question:

How do ecological processes regulate population size and generate annual variability in the abundance of adult Chinook salmon?

Objectives:

* Determine whether density dependent mortality is due to mainly to competition for spawning habitat or to competition between juveniles during summer rearing.
* Determine how seasonal patterns of stream discharge and other environmental variables affect food production and the area and quality of profitable and safe feeding habitat.
* Determine how food abundance and water temperature interact to influence growth rate, energy reserves, and marine survival.

Methods:

1. Survey the longitudinal distribution and density of spawners, fry, and fingerlings to assess and select study reaches.
2. Estimate adult abundance from mark-recapture experiments, plus historic weir and tower counts.
3. Estimate total egg deposition from estimates of adult abundance and redd counts, combined with historic age-sex-length data.
4. Use bioenergetic modeling to investigate the relationship between food intake, water temperature, growth rate, and energy reserves.
5. Assemble existing date, augmented with new data, to assess stream flow, flow history, season, temperature, light intensity, turbidity, and nutrient inputs
6. Test hypotheses about the way ecological processes generate annual variations in the abundance of Chinook salmon using modeling and retrospective analysis.
7. Etc……

**AYK SSI PROPOSAL REVIEW PROCESS ­­­ 2015**

Upon receipt, the AYK SSI staff will complete an initial review of proposals for missing components and conformance to the formatting requirements below. Applications that do not conform to the requirements may not be considered for further evaluation. We will screen applicants against the federal exclusions database to ensure that proposals from ineligible organizations are not advanced for review.

The AYK SSI Scientific Technical Committee will conduct detailed technical review of proposals supplemented by external peer reviews. The Committee will evaluate proposals using the following evaluation criteria:

**Scientific Evaluation Criteria:**

1. Project Responsiveness to AYK SSI Research Priorities. Proposals will be evaluated to determine if they clearly respond to the research priorities established by the AYK SSI.
2. Soundness of Project Design and Methods. Strengths and/or weaknesses of study design will be evaluated in relation to achieving productive results.

- Has the applicant provided sufficient information to evaluate the project technically?

- Are the proposed methods and experimental design appropriate to accomplishing the objectives?

- Is the project technically feasible? What is the probability that the objectives will be achieved?

1. Coordination / Experience and Qualifications of Personnel. The experience and qualifications of the project’s principal investigator and personnel will be evaluated. Applicants must demonstrate that they are aware of other past and ongoing research related to the proposed work and discuss how they will coordinate and collaborate with related projects.
* Are the proposed research personnel and equipment appropriate to achieve the objectives? Are other types of expertise missing?
* To what degree are the investigators qualified by education, training, and/or experience to conduct the proposed research?
* Does the proposal demonstrate awareness of similar work being conducted elsewhere?
1. Project Costs / Timeline. The justification and allocation of the budget in terms of the work to be performed will be evaluated. Unreasonably high or low project costs will be taken into account.
* Is the budget appropriate for the research proposed?
* What is the probability that the objectives will be achieved in the time frame proposed?
1. Capacity Building. Applicants must demonstrate they have made appropriate consultations with local communities and have planned for capacity development. Projects must include appropriate partners and contribute, to the maximum degree possible, to the capacities of local communities, organizations, and residents of the region to participate in fishery research. A plan outlining how this project will contribute to developing partnerships and building the capacity of individuals, agencies, and organizations in the region should be included. Proposers should have completed consultations with local communities or partnering organizations prior to proposal submission.

**Guidelines for Capacity Building in AYK SSI Research Program**

Within the AYK SSI research program capacity building refers to “*….the process by which rural/ Tribal groups, organizations, and NGO’s expand and develop technical and administrative abilities enabling them to participate in a range of fisheries research activities to the maximum level they desire.”*

Projects must include appropriate partners and contribute, to the maximum degree possible, to the capacities of local communities, organizations, and residents of the region to participate in fishery research. Proposers must list the communities that may be affected by the project or realize benefits from the project and describe consultations have been conducted as part of planning of the proposed work?  A plan should be described for how this project will contribute to developing partnerships and building the capacity of individuals, agencies, and organizations in the region.

The graphic below illustrates a continuum of capacity building as measured by levels of local or regional organizational involvement in research projects, and will be used to evaluate the Capacity Building criterion above. Investigators are encouraged to develop the highest level of community and regional involvement that is reasonably practical to their project. Proposals that involve high levels of community involvement will rank high for this component. Not all research methods or projects lend themselves to contributing to regional or local capacity building.

*Capacity Building as Measured by Levels of Community Involvement in AYK SSI Projects 1*

|  |  |
| --- | --- |
| 8Community Control | Projects are locally derived, administered and managed, full responsibility for project management is delegated to or assumed by the community |
| 7Partnerships | Partnership of equals between state and federal agencies and local users; joint decision making institutionalized |
| 6Collaboration | Community is involved in policy and decision making about project objectives |
| 5Cooperation | Use of local knowledge and local research assistants; some Research/assessment activities are contracted to local groups |
| 4Developing Partnerships | Partnerships in project development may start; common objectives sought |
| 3Communication | Two-way communication begins; research plans begin to include and reflect local concerns |
| 2Consultation | Communities/organizations are consulted on projects; feedback from research findings go to community |
| 1Informing | Communities/organizations are informed about projects*;* communication is one way |

*1. Cannon, R., A. Craver, M. Rearden, T. Roettiger, C. Schleusner, B. Spangler, P. Wheeler, and D. Wiswar.  2005. Capacity Building in the Fisheries Resources Monitoring Program:  A Guiding Document for Project Investigators.  U.S. Fish and Wildlife Service, Office of Subsistence Management, Anchorage, Alaska.  6 p.*