North Pacific Fishery Management Council

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GMACS workshop - January 16-17th, 2019 (Kodiak, AK)

Participants: Both current users and future users
Moderator/Contact: Katie Palof, Crab Plan Team Co-Chair katie.palof@alaska.gov

Objectives:
1. Provide a roadmap to the GMACS code
2. Be able to input and run new stocks (.dat and .ctl files updates and changes)
3. Develop plan for upkeep and version control
4. Successfully using the 'gmr' R package to view output
5. Continued code development / wish list for future

A) Using GMACS
- Formatting input and .ctl files (**Punt**)
- Updates to projection file and recruitment options (**Punt**)
- Using make.bat to create .exe (**Punt**)
- Current experience thus far - ups and downs (Group)
- Plan for documentation? (Group)

B) GMACS upkeep - (Szuwalski and Palof)
- How to make changes and get them approved
- Using GitHub? Alternative options if you are not a Git user
- Generic way to update stdreport material (this may be covered above)
  - GMACS base.tpl, personal.tpl (**Punt**)
- Documentation on code (timeline / tasks)

C) Output and R package for processing
- Current R package usage and capabilities
  - Szuwalski/Palof walk through workflow and package use
  - R markdown template / example with group
- Updates? Additions?

D) Development and code changes - (ongoing) we do NOT plan on tackling ALL of these at meeting - work on what is needed (wish list), who is working on these items (tasking) and timing.
- Projection module - additional options for recruitment
- More selectivity options (Zheng)
- Jittering
- Verify equations for instantaneous seasons
- Retrospective analysis
- Terminal molt
- Options to fit growth (molt increment) data
- Options to fit "observed maturity" ogives
- Options to hindcast/project F's using effort data

E) Develop wish list (See above D)
  - Location for wish list for future development
    - Using "issues" on GitHub?
    - Who would tackle wish list? Timeline?