Get update from Matthiu Veron - is his projection model research only or should we expect to transition to his R package inside the next 5 yr?

Veron’s presentation at 2021 advancement in methods workshop - starts on [slide 141](https://docs.google.com/presentation/d/1rRmaLjtEpWUg4XhLw4xykIlI688tAzUEleXr4_iiGGc/edit#slide=id.gd9cffd83b8_18_47)

Task list:

1. Figure out if there are different versions, who’s using what (Tier 5 subgroup used a questionnaire for this. Perhaps we could do something similar?)
2. Document what proj does exactly
3. Write a decision tree of how to use it. Specifically, (a) how to set catch depending on the frequency of assessment and other considerations; (b) when/why should it be run twice.
4. Document the options and output that are unused for production assessments and can be ignored.
5. R functions to build the inputs and run it? I think some of this is done already.
6. Either an R function or the ADMB model should write a dedicated summary table w/ ABC, OFL, etc. that can be pasted into Excel/Word tables, or formatted easily in TeX.
7. Finalize the version and test on everyone's files from last year, and when consistent, publish the version and recommend it for universal use.

Timeline: Mar-Apr? (realistically Jane will probably have to push this into early summer)

Other: do we want any proj developments? Jane wants alternatives to the arithmetic mean for recruitment (e.g., the geometric mean or median)

March 29 - we present an example proj workflow (current) during the SSMESA group meeting

Input assumptions

**How do you estimate in-year total catch? E.g., If you pull catch on 2023-10-15, how do you get the total catch for 2023?**

AK plaice estimates the remaining catches in a year assuming the average weekly catch rate from the most recent three weeks. Example from 2021 assessment: *Since catches of Alaska plaice continued to accumulate into October, it seemed reasonable to assume that Alaska plaice would continue to be caught at a similar rate to the previous 3 weeks through the end of December. The catch at October 17 was 15,411; the average catch during the 3 weeks prior to October 17 = 123 t/week. It was therefore projected that the Alaska plaice catch would reach 16,760 t by the end of 2021.*

How do you estimate