REPORT OF THE *AD HORAS* MEETING OF THE ICCAT GBYP CORE MODELLING MSE GROUP
ICCAT Secretariat, Madrid, 11 March 2017

Taking the opportunity of the contemporary presence of most of the members of the ICCAT GBYP Core Modelling MSE Group during the SCRS Bluefin Tuna Data Preparatory Session, it was decided to call *ad horas* a meeting of the Group for preparing a proposal for take the GBYP MSE work forward and advise it to the scientists who are attending the SCRS Bluefin Tuna Data Preparatory Session.

PARTICIPANTS:

CMMG members: Doug Butterworth, Tom Carruthers, David Die, Antonio Di Natale, Ana Gordoa, Laurie Kell, Gary Melvin, Clay Porch.
Invited scientist: Shuya Nakatsuka.

The following pages include the details of the proposal, that was discussed by the SCRS Bluefin Tuna Species Group on the same day, with no reservation being expressed.

PROPOSALS TO TAKE MSE FORWARD

The conditioning must be refined taking account of the following:

i) Careful treatment of bias in generating future data for indices whose fits show systematic residual patterns.

ii) Conflicting data necessitates more OMs, e.g. if two indices conflict, we need two OMs where one fits well to the first (and hence badly to the second), and *vice versa*.

iii) Refined conditioning will be to updated indices as agreed at this meeting.

iv) The set of indices assumed to continue to be available in the future will be reviewed and extended.

This work will be carried out by Tom Carruthers, advised by a small group appointed by the Core Modelling Group.
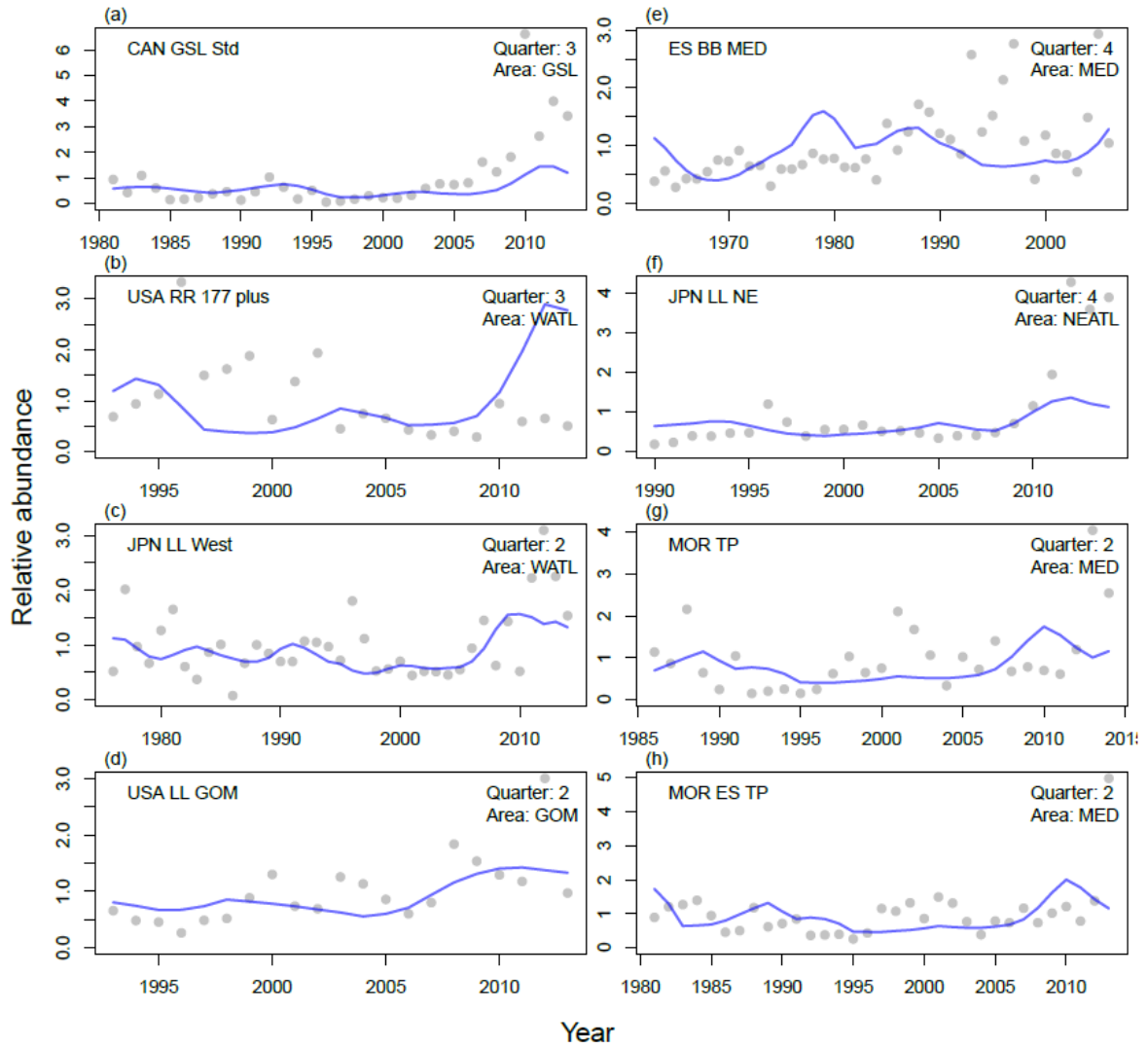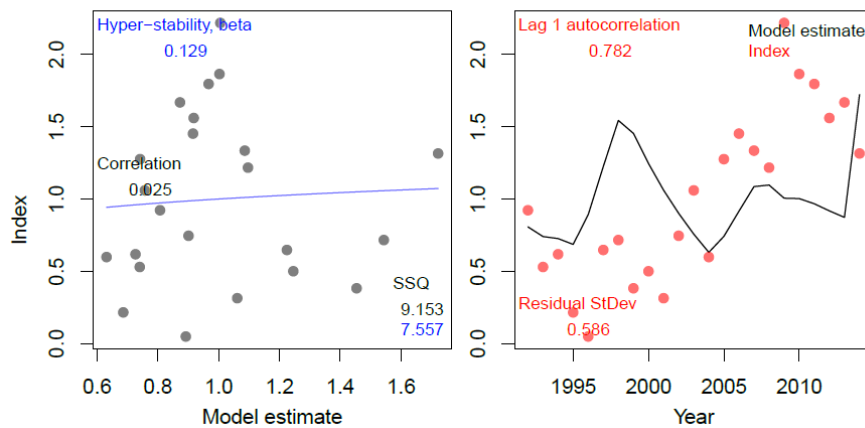
Figure 1. Assessment CPUE index fits (blue line = predicted, grey dots = index)

Index fit and statistical properties for US-CAN

FUTURE SCHEDULE PROPOSALS

1) The report on the refined conditioning is tabled at <u>a meeting of the Core Modelling Group to commence the day before the July AW meeting (19 July 2017)</u>. This meeting will review this report, and possibly ask for some amendments to be implemented during the period of the AW meeting.

2) The <u>Core Modelling Group</u> will finally adopt the conditioning during a 2-3 hour session to be organised to take place sometime during the period of the AW meeting, possibly <u>on Sunday 23 July 2017</u>. (Other attendees of the AW meeting may attend that session if they wish.)

3) Tom develops the package, incorporating all the OMs, which allows any potential MP developer to apply their MP and view the results.

4) Tom investigates some example MPs for the results to be tabled and considered at the September Bluefin session. The package is explained there to those present, and others are encouraged to try out their own MP options over coming months.

5) Some summary of the outcome from the above is presented to the 2017 Commission meeting.

6) About April 2018 the various developers of MPs meet to compare results and agree on refinements to take their candidate MPs further.

7) The September 2018 bluefin session sees a narrowing of the set of candidate MPs based on their performance across the various OMs.

8) The 2018 SCRS meeting includes a first stakeholder-scientist interaction to discuss desired MP properties and performance, informed by results from this first set of candidate MPs.

9) The ultimate aim is to table a proposed set of MP options to Commission at its 2019 meeting.