Work to be done for the 1st article:

SCHEDULE
Here are some elements of schedule we agreed on

* Arrive at the next meeting with modeled regional sea level and some comparisons
* mid 2015 get the first comparisons between TG records, satellite altimetry, OHC, and modeled sea level
*arrive at the next meeting with inputs for the paper
*design the paper during the meeting: what are the main sections, what are the main diagrams
*if you can come to the next meeting with some suggestions diagrams for the second article
*check the website progress
 *next meeting between 14th of September and the 17th of October. Book the week
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ACTIONS
Here is a list of associated actions we should take on before the next meeting.

We work with annual fields with a resolution of 1°x1° (TBC by John)

GLACIERS MASS LOSS
1) Check with BenM which GlaciersML estimates from GCMs he has. Will he compute glaciers for more GCMs models, more GCM simulations than what he has now? Kristin
2) List the GCMs used by BenM to compute GlaciersML and provide the team with the list including the realization id (RnPnIn) Kristin
3) Compute GlaciersML estimates from GCMs with Aimée model. Aimée
4) Contact Radic and Hock and ask them if they are willing to join and compute GlaciersML estimates from GCMs with their model. Kristin/BenM
5) Collect Ben Marzeion glaciers mass loss estimates based on Hadcrut and Leclerc updated estimates based on glaciers length Kristin
6) compute 20th century glaciers mass loss with aimée's glacier forced by Hadcrut observations Aimée

OHC:

7) collect Levitus and Ishii observations of T and S and compute the annual thermosteric sea level fields (and pentadal halosteric sea level?) Benoit/Angélique

8) Ask Catia annual thermosteric sea level fields after T.Boyer article Aimée/John

9) calculate the T and S field with the EN4 for different xbt corrections Chris

10) compute annual thermosteric and halosteric sea level fields from GCMs outputs. Use Levitus between 700m depth and 2000m depth and Purkey and Johnson below 2000m depth (see Purkey et al. 2014 JGR ocean) Benoit/Angélique

GREENLAND MASS LOSS SMB

11) provide Benoit with Greenland SMB over the 21st century given by RACMO forced by 1 GCM Stefan

12) Check if it is not stupid to use the Greenland SMB over the 20th century with RCM forced by reanalysis ERA2O Cecile/Xavier, Stefan

13) Provide with the Greenland SMB over 1958-2013 with RCM forced by reanalysis ERA40 Cecile/Xavier, Stefan

14) recompute the regional downscaling of Greenland SMB based on the 2 RCM runs Benoit/Angelique

15) check that the downscaling is working on RCMs forced with reanalysis Benoit/Angelique

16) apply the downscaling technique to GCMs Benoit/Angelique

ANTARCTICA MASS LOSS SMB

17) provide Benoit with the Antarctica SMB over the 21st century given by RCMs forced by GCM Cecile, Stefan

18) Provide with the Antarctica SMB over 1979-2013 with RCM forced by reanalysis ERAinterim Cecile, Stefan

19) compute a regional downscaling of Antarctica SMB based on the 2 RCM 21st century runs Benoit/Angelique

20) check that the downscaling is working on RCMs forced with reanalysis Benoit/Angelique

21) apply the downscaling technique to GCMs Benoit/Angelique

ICE SHEET DYNAMICS

22) check whether we can get ice discharge observations out of Shepherd data Stefan,

23) Ask Eric Rignot whether he can provide ice discharge observations Stefan

LAND WATER

24) check which kind of data (GWD or GWD+dams) is available from Wada and Chao. Aimée

25) check with Konikov if he can provide an updated dataset for GWD John

PERIPHERAL GLACIERS

26) Compare the Greenland peripheral glaciers estimates from Greenland SMB estimates with the estimates from glaciers models Benoit/ Angélique

PRESSURE LOADING

27) compute the pressure loading from GCMs Benoit/Angelique

28) collect the pressure loading observations from reanalysis Benoit /Angelique

GIA

29) contact M.Tamiseia to see if he will put online on the PSMSL website the GIA corrections from different groups John

30) collect the GIA correction for relative sea level from Peltier and Lambeck Aimée

31) collect the GIA correction for Altimetry from Peltier Benoit

32) check if the GIA correction for Altimetry from Lambeck is available Aimée

33) Check if you can find Paulson GIA corrections. Aimée

SEA LEVEL PATTERNS FROM EARTH RESPONSE

34) Compute the sea level pattern related to Glaciers ML, Ice sheet SMB and dynamics, Land water. Aimée, Benoit(Giorgio)

SEA LEVEL OBSERVATIONS

35) provide sea level observations from CCI with error estimates on GMSL trend, GMSL at monthly , regional sea level trends (by the end of the year 2015) Benoit

36) provide sea level reconstructions. BenH, John, Benoit (and ask j. Schrotoer)

37) provide a quality controlled TG record dataset with small gaps (not IB corrected, not corrected for GIA) over 1880-2013 for comparisons, John

OTHER CONTRIBUTORS THAT ARE NEGLECTED
38) Estimate the mass increase over shelves due to thermal expansion over the 20th century and compare with 21st estimate to get an idea of the shelf loading order of magnitude over the 20th century. Benoit/Angélique

COMPARISON OF MODELLED SEA LEVEL AND OBSERVATIONS
39) Compute the modeled sea level from GCMs and offline models by summing the contributors. Aimée/John, Benoit/Angelique
40) compare the modeled sea level from GCMs with TG, satellite altimetry and OHC… Aimée/John, Benoit/Angelique
41) compare the Greenland and Antarctica SMB with "observations" TBD Benoit/Cecile/Stefan
42) compare the pressure loading with observations Benoit