Response to RC3:

Note that we quote the reviewer's comments and suggestions in red.

We will add a statement on that in the text: "In turn, seasonal ice is transported into the Weddell Sea from the north and northeast, can be pressed and compacted against the ice shelves and the coast of the Antarctic peninsula where it survives the summer ad becomes MYI."

After 2002, the preferred satellite instruments to be used are AMSR-E and AMSR2 as they have higher resolution than SSM/I and SSMIS. SSM/I was mentioned as it can extend the record backwards before the AMSR-E era. SSMIS can, of course also be used, and actually it can close the gap between AMSR-E (until Oct 2011) and AMSR2 (from July 2012). We will mention this here.

(It is not feasible to define the beginning of the cold season grid-cell-wise (using reanalysis data), in particular as the drift correction is not grid-cell-wise but rather a neighborhood operation. This would also cause problems at the region boundaries if the beginning or the cold season were defined region0-wise. Therefore we have chosen the time just after the seasonal minimum of the total Antarctic sea ice, which is the end of February. We will add some words on that in the text.

Yes, we will mention this.

Here as well, we will mention this.

We have used the maps (graphics files, PNG). Analysing this in more detail using the data in original SIGRID3 format is planned but would probably beyond the scope of this paper.

We will consider modifying the figure along the lines suggested here.

As mentioned above, using the original data might be beyond the scope of this paper, but we will consider it. Note. however, that there is already one "color family" for each of the three ice types: pink/purple hues for YI, yellow/green hues for FYI, brown hues for MYI.

We use the convention to write a two-word compound without a hyphen, just like "sea ice".

Yes.

We wanted to give the direct URL for the data on our server and also the reference to the PANGAEA data set. and avoid lengthy parentheses.

Figure placement has to be straightened in the final version any way...