Comparision of calculated and measured paleo-sea level proxies with PaleoMIST 1.0, Report 2, version 2.0

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As a supplement to "*A new global ice sheet reconstruction for the past 80 000 years*" by Evan J. Gowan, Xu Zhang, Sara Khosravi, Alessio Rovere, Paolo Stocchi, Anna L. C. Hughes, Richard Gyllencreutz, Jan Mangerud, John-Inge Svendsen & Gerrit Lohmann

Report 3: Comparing different Greenland Models and lithospheric thickness values.

Contents

1 Purpose of this document

In this report there is a detailed summary, including plots, of a worldwide compilation of paleo-sea level data, and seven ice sheet-Earth models. In this report, in addition to the version of PaleoMIST with an ice covered Hudson Bay in MIS 3, there are four models with a modified ice thickness for Greenland (one of these also has Antarctica at its modern configuration at 5000 years ago), and models with 60 km and 90 km lithosphere instead of the regular 120 km lithosphere. The goal of the alternative Greenland scenarios is to see if increasing the basal shear stress (and therefore increasing the ice thickness) would improve the misfit with the Holocene sea level data. The results show some improvement, but ultimately it is probable that the ice margin needs to be expanded prior to the Holocene.

The accompanying paper is Gowan et al. (2021).

2 Update history

This database has its beginnings as a way for me to evaluate ice sheet reconstructions. The first efforts were reported in Gowan et al. (2016), where I first created the scripts and scoring method that I continue to use. This was done in a fairly disoganized way, as it was made in haste without any illusions that it would be expanded into global database. The data used in Gowan et al. (2016) focused on northwestern Canada, but since I have changed the way I organize and assess the data, this is not included in the current database.

Later on, in order to refine the global ice sheet reconstruction reported in Gowan et al. (2021), I was forced by necessity to create a more organized database structure. I included data from Eastern Canada and North America, northern Europe and Asia, southeastern Asia, and a few additional sites that have data between 80,000 and 15,000 years ago. I still largely relied on the scripts and programs created in Gowan et al. (2016), but the plotting was automated to a certain degree. This was considered to be version 1.0 of the database. Further updates are described below.

2.1 Version 1.1: October 22, 2021

This document has been updated to include several additional sites at the LGM and MIS 3. It also has fixed an error in the Cairns and Mackay sites caused by incorrectly subtracting half of the depth range rather than adding it. I apologize for this error. For the coral data for Tahiti and Huon Peninsula, it was originally set to be marine limiting, since the living range was tens of meters. We now use the 2-sigma range determined by Hibbert et al. (2016). We include the interpretations of sea level range by Ishiwa et al. (2019) and Yokoyama et al. (2000) for the Bonaparte Gulf shallow marine/estuary/intertidal data in addition to my conservative marine limiting assignment. I also included the interpreted sea level of Huon Peninsula by de Gelder et al. (2022) for MIS 3 to compare with the coral depth range interpretation by Hibbert et al. (2016). Finally, I also recalibrated all the radiocarbon dates using updated calibration curves published in 2020 (Heaton et al., 2020; Hogg et al., 2020; Reimer et al., 2020).

This update was used in the paper Gowan et al. (2022).

2.2 Version 1.2: March 14, 2022

I have included data from the Baltic Sea (Rosentau et al., 2021) and North Sea (Vink et al., 2007).

2.3 Version 1.3: July 4, 2022

In this update, data from Antarctica are included (Briggs and Tarasov, 2013; Ishiwa et al., 2021). I have also updated the figures so that index points are now drawn as rectangles, rather than the green dots as before. I have used different shades of green depending on whether or not the indicator uncertainty is below or above 10 m.

2.4 Version 2.0: April 19, 2023

This version represents a substantial revision of the database structure. A lot of the analysis and plotting code that was originally written in Bash and Fortran has been rewritten in Python. The map plots are now generated automatically (previously, I manually created the map boundaries). There is now a "scratch_datasets" folder, where I store the spreadsheets with the original data. The scripts in the scratch datasets folder will automatically create the subregions in the "sea_level_data" and extract the reservoir ages from the shapefiles in the GIS folder. The revised Marine20 calibration curve necessitated this move, as it invalidated the old reservoir ages. These changes means that the amount of time for upkeep and future data incorporation is substantially reduced.

This update includes data from Greenland and Australia. The Greenland data was largely compiled by myself, using the list by Lecavalier et al. (2014) as a starting point, but also including data not from that list. Notably, it includes the compilation of isolation basin based sea level indicators by Long et al. (2011). The data for Australia was largely derived from compilations by Lewis et al. (2013), Sloss et al. (2007), Belperio et al. (2002).

3 Summary of ice and Earth models

The main models included here are from PaleoMIST. This is a global ice sheet reconstruction at a very crude 2500 year time step. I have started to use a 500 year interpolated version, which should produce more accurate results in ice covered areas, though it makes less impact in far field regions.

For this document, I use PaleoMIST 1.0. The minimal MIS 3 configuration reconstruction is PM_1, while the maximal configuration is PM_1_A

For the Earth models, I created a shorthand scheme during my PHD, which I have continued to use. A full explanation can be found on the github page:

`https://github.com/evangowan/icesheet/blob/master/global/earth_model_format_codes.txt`

The full description of each model compared in this document is in this section.

3.1 Ice models

PM_1_A_h - PaleoMIST 1.0 - full MIS 3 Laurentide Ice Sheet scenario, with Hudson Bay fully covered, and ice extent much larger. In this version, the sea level was calculated by linearly interpolating the ice load to 500 year time steps, which should mitigate some of the issues with overpredicting the loading in ice covered regions.

PM_1_A_h_GR1 - PaleoMIST 1.0 - full MIS 3 Laurentide Ice Sheet scenario, with Hudson Bay fully covered, and ice extent much larger. In this version, the sea level was calculated by linearly interpolating the ice load to 500 year time steps, which should mitigate some of the issues with overpredicting the loading in ice covered regions. This includes a modified version of Greenland, where the shear stress values around the edges of Greenland have been increased by 20000 Pa, and lowered to the modern value between 12.5 and 7.5 ka. This particular simulation differs from the standard PaleoMIST version in that the modern Antarctica ice sheet thickness has been substituted for all time steps from 5000 years before present.

PM_1_A_h_GR1 - PaleoMIST 1.0 - full MIS 3 Laurentide Ice Sheet scenario, with Hudson Bay fully covered, and ice extent much larger. In this version, the sea level was calculated by linearly interpolating the ice load to 500 year time steps, which should mitigate some of the issues with overpredicting the loading in ice covered regions. This includes a modified version of Greenland, where the shear stress values around the edges of Greenland have been increased by 20000 Pa, and lowered to the modern value between 12.5 and 7.5 ka.

PM_1_A_h_GR2 - PaleoMIST 1.0 - full MIS 3 Laurentide Ice Sheet scenario, with Hudson Bay fully covered, and ice extent much larger. In this version, the sea level was calculated by linearly interpolating the ice load to 500 year time steps, which should mitigate some of the issues with overpredicting the loading in ice covered regions. This includes a modified version of Greenland, where the shear stress values around the edges of Greenland have been increased by 20000 Pa, and lowered to the modern value between 12.5 and 7.5 ka. The shear stress in the center of Greenland has been reduced by 20000 Pa prior to 12.5 ka, and increased to the modern value at 7.5 ka.

PM_1_A_h_GR3 - PaleoMIST 1.0 - full MIS 3 Laurentide Ice Sheet scenario, with Hudson Bay fully covered, and ice extent much larger. In this version, the sea level was calculated by linearly interpolating the ice load to 500 year time steps, which should mitigate some of the issues with overpredicting the loading in ice covered regions. This includes a modified version of Greenland, where the shear stress values around the edges of Greenland have been increased by 20000 Pa, and lowered to the modern value between 10 and 5 ka.

3.2 Earth models

eegr - 90 km thick lithopshere, 4×10^{20} Pa s upper mantle, 4×10^{22} Pa s lower mantle

ehgr - 120 km thick lithopshere, 4×10^{20} Pa s upper mantle, 4×10^{22} Pa s lower mantle

4 Paleo-sea level compilations

This is a list of paleo-sea level compilations, which served as the basis for this report. We acknowledge the hard work of the people compiling the data, as well as acknowledging those who collected the original data.

4.1 North America

- Eastern Canada - Vacchi et al. (2018)
- Hudson Bay - Simon et al. (2016)
- Greenland isolation basins - Long et al. (2008)
- Eastern United States north of Georgia - Engelhart and Horton (2012)

For eastern Canada, the database by Vacchi et al. (2018) refered just to compilations (such as Simon et al. (2016)) rather than the original sources. I have tried to track down the original sources as much as possible, but in some cases it was not possible. I made use of the compilations by Simon et al. (2016), Gowan et al. (2016) and an unpublished dataset by A.S. Dyke and T.S. James (some which was summarized in Dyke and Peltier (2000)) to track down references. Some were not listed in any of these compilations, so I had to track it down myself.

The MIS 3-5 data from the east coast of the United States was compiled by Pico et al. (2017).

Most of the data for Greenland was compiled by me, aside from the isolation basin dataset by Long et al. (2008). Though it did not contain a compilation of data, Lecavalier et al. (2014) listed references to a large number of studies that had sea level data. This was used to find the data used in this database. I also did a literature search for studies published after 2013.

4.2 Europe

- Baltic Sea - Rosentau et al. (2021)
- North Sea - Vink et al. (2007)

The Baltic Sea sea level indicators are from (Rosentau et al., 2021). Note that some of the regions that they designated were really large with the gradient of the GIA, so I made smaller regions. This is why the regions in this report do not correspond to theirs in many places. Also note that Rosentau *et al* chose to enter the radiocarbon dates for Ångermanland as pre-calibrated dates. I have not changed them.

The main compilation for the North Sea is by Vink et al. (2007). Though this predates the HOLSEA project, they use the indicative meaning concept and have a rigorous assessment of error, and is compatible with it. For Rotterdam, Netherlands, there is a HOLSEA compilation by Hijma and Cohen (2019). In Langeoog, there is a HOLSEA dataset by Bungenstock et al. (2021). I have also included HOLSEA formatted data from Norderney (Scheder et al., 2022). Western Denmark does not a HOLSEA formatted compilation, so I added data compiled by Gehrels et al. (2006) and Jessen et al. (2019).

4.3 Eurasian Arctic

- Northern Russia - Baranskaya et al. (2018a)

The compilation of sea level indicators for northern Russia comes from Baranskaya et al. (2018a). Thank you to Alisa V. Baranskaya for sending the references (including translations from Russian) that were missing from the published compilation.

4.4 Southeastern Asia

- Southeastern Asia (SEAMIS) - Mann et al. (2019)

The sea level indicators from southeastern Asia were compiled by Mann et al. (2019). I corrected a number of errors, which are listed in the scratch datasets notes.

4.5 Tropical Corals

- Tropical corals - Hibbert et al. (2016)

Corals from tropical regions were compiled by Hibbert et al. (2016). In this report, I have taken indicators for Huon Peninsula, Vanuatu and French Polynesia from this database. An additional interpretation of the Huon Peninsula data comes from de Gelder et al. (2022).

4.6 Antarctica

- East Antarctica - Ishiwa et al. (2021)
- Antarctica - Briggs and Tarasov (2013)

Currently, I have included two compilations from Antarctica. The compilation by Ishiwa et al. (2021) is focused on East Antarctica and includes MIS 3 data. The other is by Briggs and Tarasov (2013), and includes data from both West and East Antarctica for the Holocene. I also added a couple of sites not included in these compilations, including Hjort et al. (1997) and Braddock et al. (2022).

4.7 Australia

- Australia - (Lewis et al., 2013)
- New South Wales - Sloss et al. (2007)
- Queensland - Larcombe et al. (1995)
- South Australia - Belperio et al. (2002)
- Tasmania - Morrison (2019)

The main compilation of Australia is from Lewis et al. (2013). Thanks goes to Stephen E. Lewis, who kindly sent me the spreadsheets from this compilation and allowed me to include them in this database. This database was actually kind of a "database of databases", which put together state databases, including New South Wales (Sloss et al., 2007), Queensland (Larcombe et al., 1995) and South Australia (Belperio et al., 2002). Tasmania was not included in the Lewis paper because of a lack of studies. There is a compilation of Tasmania in Morrison (2019), which I have included. In addition, I have included the Great Barrier Reef data from Yokoyama et al. (2018) and Bonaparte Gulf from Yokoyama et al. (2000) and Ishiwa et al. (2019).

4.8 Data locations

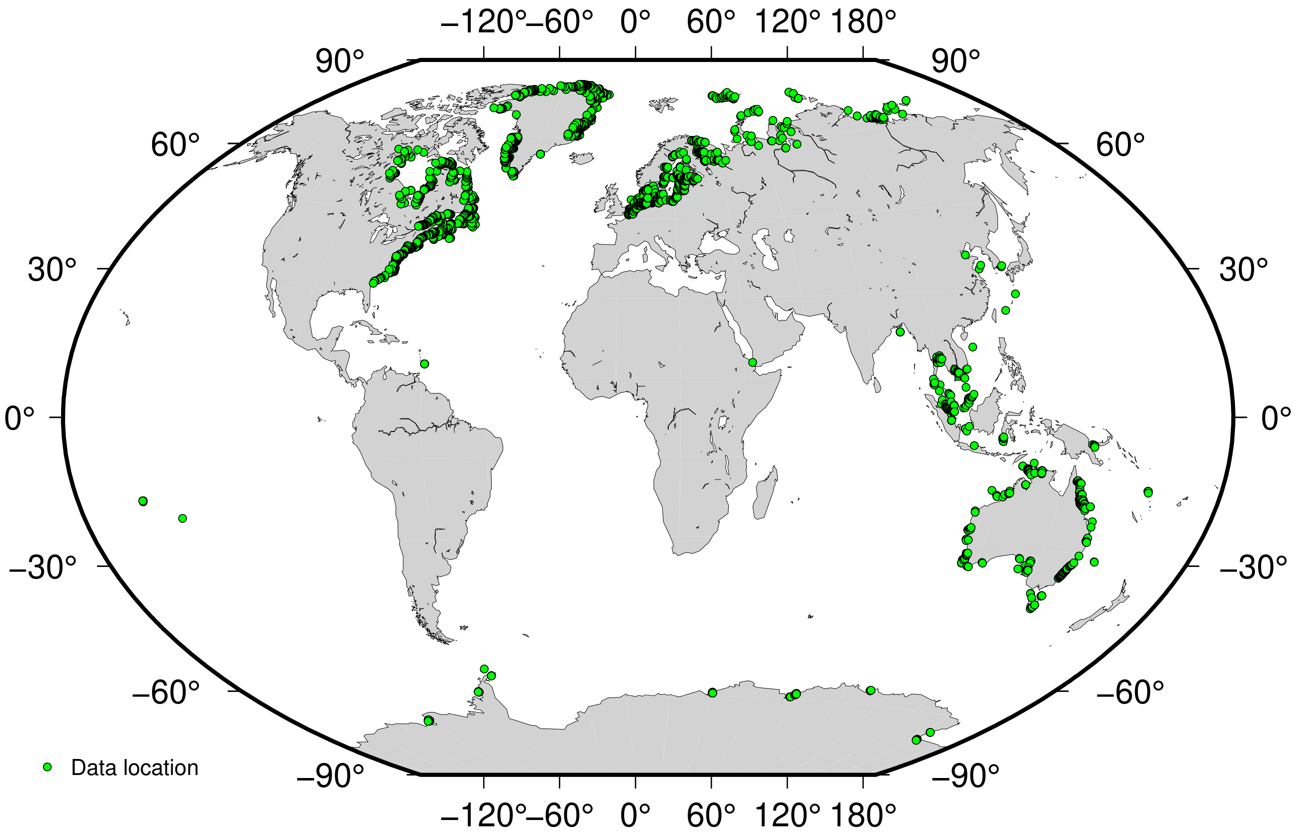

Figure 1: Map showing the location of data entered into the database.

5 Summary of results

This is a summary of the results of the modelling. There are a total of six models with which are compared. In addition, these tables give how many sea level indicators, number of marine limiting, number of terrestrial limiting, and number of sea level index points.

The sea level is calculated at the location of each data point. To evaluate how well the calculated curve fits the data point, a score is assigned. This metric was originally used by Gowan et al. (2016). The score is the discrepancy, in number of meters, the calculated sea level falls outside of the constraint plus the error bars. A score is zero if the calculated sea level is consistent with the data point. As an example, if the calculated sea level curve is below a terrestrial limiting point, it is given a score of zero. The sum of the scores for each location for each model are shown in the tables. A warning about the scores is that a lower score does not necessarily mean a better fit, as it will depend on the age distribution of the indicators, and the number of indicators of a specific kind. For example, if there are a lot of marine limiting data points, a calculated curve that is over a hundred meters above those indicators may provide a good score, but it is not necessarily a good fit. As a result, it is a good idea to also look at the plotted curves for visual inspection.

5.1 MIS 1 and 2 (LGM to present)

5.1.1 Antarctica

Table 1: Number of data points and model scores for East Antarctica

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	170	94	55	21	559	554	556	554	462	840	
Langhovde	51	51	0	0	210	208	209	208	138	144	
Larsemann Hills	12	2	10	0	53	52	53	51	52	148	
Ongul Islands	36	7	29	0	48	48	48	48	38	41	
Rauer Group	32	24	8	0	68	66	67	65	66	199	
Southern Scott Coast	8	1	0	7	145	145	145	145	124	258	
Terra Nova Bay	13	4	4	5	7	7	7	8	13	5	
Vestfold Hills	13	5	0	8	1	2	1	2	5	22	
Windmill Islands	5	0	4	1	27	26	26	27	26	23	

Table 2: Number of data points and model scores for West Antarctica

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	93	13	54	26	179	179	179	179	79	593	
James Ross Island	9	9	0	0	0	0	0	0	0	0	
King George Island	8	0	7	1	10	10	10	10	12	8	
Marguerite Bay	13	1	12	0	87	87	87	87	43	180	
Pine Island Bay	63	3	35	25	82	82	82	82	24	405	

5.1.2 Australia

Table 3: Number of data points and model scores for New South Wales

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	249	139	6	104	228	225	229	228	148	214	
Lord Howe Island	5	0	0	5	20	20	20	19	20	23	
Nambucca Heads	5	0	0	5	16	15	16	15	1	14	
Newcastle	12	0	0	12	51	52	52	52	48	49	
Sydney	32	3	2	27	43	42	43	43	3	39	
Ulladulla	74	50	0	24	39	38	39	39	29	37	
Wollongong	121	86	4	31	59	58	59	60	47	52	

Table 4: Number of data points and model scores for Northern Australia

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	268	39	0	229	564	550	553	553	532	635	
Bonaparte Gulf	90	19	0	71	211	207	208	207	208	255	
Bonaparte Gulf SLI Ishiwa2019	84	20	0	64	135	138	135	138	137	152	
Bonaparte Gulf SLI Yokoyama2000	16	0	0	16	191	180	184	180	180	224	
Cambridge Gulf	4	0	0	4	0	0	0	0	0	0	
Darwin	5	0	0	5	3	3	3	3	0	1	
Eastern Timor Sea	1	0	0	1	0	0	0	0	0	0	
Sahul Shelf SLI Ishiwa2019	2	0	0	2	0	0	0	0	0	0	
Sahul Shelf SLI Yokoyama2000	2	0	0	2	0	0	0	0	0	0	
South Alligator River	64	0	0	64	24	22	23	25	7	3	

Table 5: Number of data points and model scores for Queensland

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	1078	62	0	1016	4748	4791	4780	4792	4455	4611	
Bowen	57	0	0	57	428	428	428	428	468	434	
Brisbane	7	0	0	7	20	20	20	20	5	14	
Cairns	322	6	0	316	1722	1769	1755	1764	1750	1684	
Cape Melville	69	18	0	51	237	235	236	235	117	220	
Gladstone	3	0	0	3	5	5	5	5	0	4	
Hydrographers Passage	281	38	0	243	590	589	590	589	589	633	
Sunshine Coast	3	0	0	3	14	14	14	14	15	11	
Townsville	336	0	0	336	1732	1731	1732	1737	1511	1611	

Table 6: Number of data points and model scores for South Australia

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	208	80	0	128	511	502	505	508	203	381	
Franklin Harbour	15	7	0	8	42	41	41	42	14	27	
Gulf St Vincent	84	32	0	52	197	194	196	195	104	160	
Port Lincoln	12	2	0	10	37	36	36	36	1	33	
Redcliff	73	24	0	49	171	168	169	171	64	120	
Smoky Bay	24	15	0	9	64	63	63	64	20	41	

Table 7: Number of data points and model scores for Tasmania

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	28	5	7	16	38	37	37	37	10	20	
Circular Head	1	0	1	0	0	0	0	0	0	0	
Flinders Island	4	1	0	3	5	5	5	5	0	3	
Glamorgan-Spring Bay	12	0	0	12	27	26	26	26	8	14	
Hobart	9	4	4	1	6	6	6	6	2	3	
King Island	2	0	2	0	0	0	0	0	0	0	

Table 8: Number of data points and model scores for Western Australia

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	176	0	0	176	634	624	629	627	414	589	
Albany	4	0	0	4	7	7	7	7	1	6	
Broome	2	0	0	2	2	2	2	2	0	1	
Bunbury	22	0	0	22	38	38	38	38	1	29	
Cape Leeuwin	4	0	0	4	6	6	6	6	3	5	
Esperance	3	0	0	3	7	7	7	7	0	7	
Exmouth Gulf	17	0	0	17	6	6	6	7	0	2	
Geraldton	30	0	0	30	69	69	69	70	32	70	
King Sound	9	0	0	9	0	0	0	0	0	0	
Perth	63	0	0	63	104	103	104	104	15	81	
Rowley Shoals	10	0	0	10	370	361	365	361	362	367	
Shark Bay	12	0	0	12	25	25	25	25	0	21	

5.1.3 Caribbean

Table 9: Number of data points and model scores for Lesser Antilles

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	196	0	0	196	1029	931	975	929	942	818	
Barbados	196	0	0	196	1029	931	975	929	942	818	

5.1.4 East Asia

Table 10: Number of data points and model scores for Ryukyu Islands

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	7	6	1	0	1	2	2	2	2	0	
Miyakojima	7	6	1	0	1	2	2	2	2	0	

Table 11: Number of data points and model scores for Sea of Japan - East Sea

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	13	6	0	7	264	267	266	266	272	267	
Tsushima-Korea Strait	13	6	0	7	264	267	266	266	272	267	

5.1.5 Eurasian Arctic

Table 12: Number of data points and model scores for Franz Josef Land

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	170	21	0	149	582	537	549	538	685	1601	
Proliv Markama	123	15	0	108	398	370	377	371	461	1260	
Zemlya Georga	44	4	0	40	138	120	125	120	182	305	
Zemlya Zichy	3	2	0	1	46	47	47	47	42	36	

Table 13: Number of data points and model scores for Kara Sea - Novaya Zemlya

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	90	8	19	63	286	288	286	287	299	313	
Baydaratskaya Bay	2	0	1	1	4	4	4	4	2	3	
Gulf of Ob	11	0	8	3	1	1	1	1	0	0	
Kara Sea shelf	2	2	0	0	0	0	0	0	0	0	
Khalmyer Bay	5	0	3	2	226	227	226	227	227	219	
Ostrov Sibiryakova	3	0	3	0	0	0	0	0	0	0	
Pechora Sea	5	4	1	0	41	41	41	41	41	38	
Severny Island North	36	0	0	36	12	13	13	13	5	52	
Severny Island West	19	1	0	18	2	1	1	1	24	0	
Vaygach Island	3	0	0	3	0	0	0	0	0	0	
Yuzhny Island	4	1	3	0	0	1	0	0	0	1	

Table 14: Number of data points and model scores for Southern Barents Sea

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	43	16	1	26	86	83	83	83	115	157	
Murmansk	21	8	1	12	29	27	28	27	43	74	
Pechengsky	17	7	0	10	41	39	39	39	56	78	
Voronya River	5	1	0	4	16	17	16	17	16	5	

Table 15: Number of data points and model scores for Western Siberia

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	125	90	23	12	760	761	760	761	685	809	
Lena Delta	60	60	0	0	285	284	284	285	225	303	
New Siberian Islands	8	0	0	8	13	13	13	12	11	11	
Olenyok Gulf	29	18	11	0	30	30	30	30	22	32	
Severnaya Zemlya	16	5	11	0	325	327	326	327	326	349	
West Laptev Sea	10	7	1	2	71	71	71	71	70	74	
Zhokhov Island	2	0	0	2	36	36	36	36	31	40	

Table 16: Number of data points and model scores for White Sea

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	177	16	41	120	314	310	312	310	323	724	
Belomorsk	8	0	7	1	0	0	0	0	0	3	
Chupa Bay	15	0	3	12	82	80	81	80	81	221	
Dvina Gulf	82	4	12	66	47	47	47	47	63	86	
Eastern Kola Peninsula	5	0	5	0	0	0	0	0	1	0	
Engozero	8	0	1	7	9	9	9	8	9	34	
Kandalaksha	8	1	0	7	33	33	33	33	33	48	
Kholmogorsky	3	0	3	0	0	0	0	0	0	0	
Lesozavodskiy	13	5	0	8	22	21	21	21	22	122	
Onega Peninsula	9	3	2	4	8	8	8	8	0	19	
Rugozerskiy Peninsula	15	1	8	6	15	15	15	16	16	2	
Umba	11	2	0	9	98	97	98	97	98	189	

5.1.6 Europe

Table 17: Number of data points and model scores for Gulfs Of Riga - Finland

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	315	38	174	103	4310	4298	4308	4275	4603	3017	
Helsinki	9	0	0	9	151	151	151	150	173	119	
Hiiumaa	50	14	28	8	437	436	437	435	508	363	
Lahemaa	7	0	0	7	55	54	55	54	64	39	
Narva-Luga	58	11	37	10	438	437	438	433	493	227	
Paldiski	7	0	0	7	80	80	80	80	111	53	
Parnu	92	3	79	10	1811	1805	1811	1794	1824	1115	
Porvoo	10	0	0	10	125	125	125	125	153	86	
Riga	20	7	13	0	91	91	91	89	98	29	
Salo	18	0	0	18	343	342	342	341	365	331	
South Saaremaa	7	0	6	1	156	156	156	155	156	136	
St Petersburg	1	0	0	1	4	4	4	4	4	5	
Tallinn	20	0	8	12	382	381	381	379	412	316	
Virolahti	4	0	0	4	89	89	89	89	91	81	
Vyborgsky District	6	0	0	6	110	109	110	109	113	91	
West Gulf Of Riga	6	3	3	0	38	38	38	38	38	26	

Table 18: Number of data points and model scores for North Baltic

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	76	0	2	74	860	857	858	856	909	2292	
Aland	3	0	0	3	28	28	28	28	35	46	
Alvsbyn	6	0	2	4	37	35	36	35	37	404	
Angermanland	14	0	0	14	106	110	109	110	104	140	
Central Finland	1	0	0	1	20	21	20	21	20	11	
Gastrikland	16	0	0	16	57	56	56	55	63	425	
Gunnarsbyn	8	0	0	8	134	131	132	131	141	560	
Oulu	2	0	0	2	28	28	28	28	29	67	
Satakunta	1	0	0	1	21	21	21	21	21	28	
South Lapland	4	0	0	4	29	29	29	29	27	155	
South Ostrobothnia	3	0	0	3	58	57	58	57	60	83	
Turku	18	0	0	18	342	341	341	341	372	373	

Table 19: Number of data points and model scores for North Sea

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	417	20	59	338	757	748	748	752	608	972	
Belgium	22	0	0	22	65	64	64	65	39	80	
Bremerhaven	51	0	0	51	41	40	40	41	88	89	
Central Netherlands	27	0	0	27	105	104	104	105	36	110	
Dogger Bank	1	0	0	1	16	16	16	16	16	11	
Elbe	23	0	0	23	6	6	6	6	25	19	
German Bight	13	0	0	13	49	49	49	48	49	29	
Ho Bugt	20	0	0	20	26	26	26	26	59	15	
Langeoog	1	0	0	1	0	0	0	0	0	0	
Limfjord	27	20	7	0	23	23	23	22	23	152	
Netherlands Wadden Sea	5	0	0	5	12	12	12	12	4	16	
Norderney	56	0	0	56	33	33	33	33	86	76	
Oyster Ground	2	0	0	2	3	3	3	3	3	1	
Rotterdam	165	0	52	113	368	362	362	366	170	370	
Southern Bight	4	0	0	4	10	10	10	9	10	4	

Table 20: Number of data points and model scores for Skagerrak - Kattegat

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	339	200	107	32	346	347	347	346	389	2253	
Asa	5	0	0	5	64	64	64	63	64	50	
Bohuslan	5	0	0	5	25	24	25	24	25	20	
Goteborg	2	0	0	2	33	33	33	33	33	1	
Halmstad	1	0	0	1	16	16	16	15	16	0	
Kattegat	26	26	0	0	0	0	0	0	0	50	
Kieler Bucht	3	3	0	0	19	19	19	20	19	59	
Laesoe	3	2	0	1	1	1	1	1	3	14	
Lillebaelt	25	14	11	0	67	67	67	68	65	263	
Samso Belt	66	47	8	11	9	9	9	9	32	464	
Storebaelt	65	25	38	2	46	47	46	47	54	404	
Copenhagen	78	28	49	1	35	34	35	34	40	222	
Treoa Moellebugt	4	4	0	0	0	0	0	0	0	53	
Vendsyssel Thy	56	51	1	4	31	33	32	32	38	653	

Table 21: Number of data points and model scores for South Baltic

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	489	112	206	171	1586	1580	1581	1584	1692	2666	
Achterwasser	26	0	6	20	76	76	76	76	65	118	
Arkona Basin East	30	29	0	1	205	207	205	209	205	364	
Arkona Basin West	24	12	11	1	52	53	52	53	52	99	
Baltic South	2	2	0	0	7	7	7	7	7	6	
Baltic South-west	7	6	0	1	6	7	6	7	6	9	
Blekinge	38	2	10	26	117	115	117	113	161	161	
Curonian Spit	1	1	0	0	0	0	0	0	0	0	
Fakse Bugt	11	7	4	0	132	133	132	133	133	186	
Havang	54	1	43	10	84	81	84	79	87	58	
Lithuania	43	25	18	0	142	140	142	139	136	185	
Lubeck	69	18	36	15	290	292	290	293	292	443	
Ostergotland	6	0	0	6	29	28	28	28	28	159	
Rugen	53	5	8	40	211	209	209	212	183	382	
Salt Meadows	43	0	1	42	110	108	108	110	96	236	
Sodermanland	9	0	0	9	44	43	43	43	49	181	
South Vistula	49	2	47	0	27	28	28	28	131	17	
Ustka	2	0	2	0	0	0	0	0	0	0	
Ventspils	5	1	4	0	48	47	48	47	47	58	
West Gulf Of Gdansk	17	1	16	0	6	6	6	7	14	4	

5.1.7 Greenland

Table 22: Number of data points and model scores for Northeast Greenland

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	534	443	29	62	6881	3985	3883	3714	3684	1619	
Cape Morris Jesup	73	67	6	0	841	582	488	561	531	193	
Danmarks Fjord	30	27	0	3	733	468	447	420	427	165	
Frederick E Hyde Fjord	16	14	1	1	259	164	151	150	147	1	
Germania Land	14	14	0	0	255	98	107	74	90	125	
Hochstetter Forland	20	12	8	0	228	99	102	88	97	132	
Hold With Hope	17	16	0	1	84	12	17	12	9	18	
Independence Fjord	12	11	1	0	69	24	25	17	12	19	
JP Koch Fjord	2	2	0	0	33	20	21	15	14	0	
Jameson Land	17	12	5	0	57	12	8	12	11	5	
Kap Clarence Wyckoff	32	29	0	3	795	601	549	586	559	167	
Kempes Fjord	10	10	0	0	31	13	17	11	12	0	
Kong Oscars Fjord	53	50	0	3	183	48	66	42	44	37	
Nansen land	6	6	0	0	90	48	43	42	44	28	
Nioghalvfjerdsfjorden	17	17	0	0	220	98	107	67	76	25	
Prinsesse Ingeborg Halvoe	67	63	1	3	1102	784	717	758	729	356	
Renland	5	4	1	0	0	0	0	0	0	0	
Schuchert Dal	97	63	0	34	1631	787	882	738	769	236	
Traill Oe	19	18	0	1	94	38	42	37	41	22	
Young Sound	27	8	6	13	176	89	94	84	72	90	

Table 23: Number of data points and model scores for Northwest Greenland

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	150	81	6	63	2035	1828	1787	1804	1901	3044	
Bessel Fjord	36	3	0	33	373	427	421	456	503	1153	
Cass Fjord	16	15	1	0	122	117	118	114	110	106	
Hall Land	66	37	0	29	528	363	352	338	385	294	
Inglefield Fjord	10	6	4	0	191	165	166	154	152	245	
Nordvestoe	3	3	0	0	93	93	86	92	92	247	
Thule	11	10	0	1	668	635	616	623	632	962	
Tuttulissuaq	1	0	1	0	0	0	0	0	0	0	
Warming Land	4	4	0	0	51	28	28	27	27	37	
Wulff land	3	3	0	0	9	0	0	0	0	0	

Table 24: Number of data points and model scores for Southeast Greenland

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	6	0	2	4	20	9	4	15	12	30	
Ammassalik	6	0	2	4	20	9	4	15	12	30	

Table 25: Number of data points and model scores for Southwest Greenland

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	320	114	59	147	11283	9622	9692	9348	9344	5852	
Akulliit	24	10	1	13	719	546	596	512	526	89	
Alluttoq Island	10	0	2	8	284	229	251	221	217	40	
Eqalussuit Tasiat	5	5	0	0	252	211	208	208	210	121	
Ikertooq Fjord	7	5	0	2	416	359	361	350	355	191	
Ilulissat	12	2	3	7	201	159	177	149	139	68	
Itilleq	11	2	0	9	265	241	241	240	220	190	
Kangerluk	9	0	0	9	447	414	418	414	394	281	
Kangerlussuaq	34	20	4	10	935	727	767	671	670	69	
Kannala	33	3	3	27	1125	939	967	921	896	302	
Kapisillit	26	8	17	1	235	145	147	129	143	3	
Maniitsoq	5	5	0	0	251	216	213	211	212	150	
Nanortalik	24	0	0	24	917	849	827	837	830	776	
Nuuk	44	25	19	0	1096	888	875	853	873	361	
Paamiut	10	0	1	9	541	488	481	479	485	479	
Qaqortoq	30	11	0	19	1410	1225	1197	1192	1209	1114	
Qeqertarsuatsiaat	11	11	0	0	730	638	629	624	635	446	
Sisimiut	12	3	0	9	1215	1136	1128	1131	1120	1047	
Tasiussarsuaq	13	4	9	0	244	212	209	206	210	125	

5.1.8 North America Arctic

Table 26: Number of data points and model scores for Hudson Bay

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	243	114	68	61	2508	2529	2527	2529	2747	4767	
Churchill	23	10	7	6	122	130	130	130	157	327	
East James Bay	36	20	9	7	589	593	592	593	640	798	
Inukjuak	21	11	2	8	72	72	73	72	82	147	
Ivujivik	21	14	2	5	40	39	38	39	38	65	
Kivalliq	31	21	5	5	226	228	228	228	245	275	
Umiujaq	94	34	33	27	1358	1363	1363	1363	1466	2920	
West James Bay	17	4	10	3	101	104	103	104	119	235	

Table 27: Number of data points and model scores for Hudson Strait

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	86	65	18	3	943	955	945	953	983	1562	
Kangiqsujuaq	14	13	1	0	138	142	140	142	141	288	
Southern Ungava Bay	7	2	2	3	106	103	104	103	124	195	
Sugluk	40	30	10	0	572	581	572	579	584	884	
Western Ungava Bay	25	20	5	0	127	129	129	129	134	195	

5.1.9 North America Atlantic

Table 28: Number of data points and model scores for Eastern United States

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	357	138	38	181	919	926	925	930	513	733	
Eastern Shore	28	7	6	15	72	72	72	72	34	50	
Inner Chesapeake	106	99	0	7	176	178	178	180	142	150	
Inner Delaware	38	2	8	28	104	104	104	104	38	70	
Northern North Carolina	60	23	6	31	225	228	227	229	155	176	
Northern South Carolina	18	0	8	10	48	48	48	48	14	45	
Outer Delaware	60	5	5	50	172	173	173	174	95	130	
Southern North Carolina	24	2	3	19	40	41	41	41	15	32	
Southern South Carolina	23	0	2	21	82	82	82	82	20	80	

Table 29: Number of data points and model scores for Labrador

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	61	16	45	0	230	239	237	239	259	386	
Hamilton Inlet	15	3	12	0	0	2	2	2	2	8	
Lake Melville	12	4	8	0	5	4	4	4	9	86	
Nain	16	2	14	0	8	3	4	3	18	39	
Torngat	18	7	11	0	217	230	227	230	230	253	

Table 30: Number of data points and model scores for Maritimes

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	533	121	122	290	1654	1635	1638	1631	1890	1107	
Anticosti Island	24	13	3	8	252	248	249	248	268	36	
Cape Breton	16	4	7	5	9	8	8	8	51	62	
Chaleur Bay	15	10	5	0	5	4	4	4	9	3	
Cumberland	112	6	15	91	54	57	56	56	8	121	
Forestville	59	18	7	34	294	291	292	291	332	78	
Halifax	48	15	4	29	11	12	12	12	12	27	
Magdalen Islands	22	2	11	9	8	7	7	7	16	36	
Passamaquoddy Bay	28	8	11	9	23	23	23	23	14	74	
Prince Edward Island	31	9	6	16	27	26	26	26	41	151	
Quebec City	69	18	28	23	148	145	145	143	203	322	
Rimouski	90	17	15	58	818	808	810	807	933	179	
Sable Island	10	1	6	3	3	4	4	4	1	17	
Shelburne	9	0	4	5	2	2	2	2	2	1	

Table 31: Number of data points and model scores for Newfoundland

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	160	53	61	46	372	375	374	375	364	675	
Avalon Peninsula	13	3	5	5	4	4	4	4	0	4	
Bay Of Islands	16	5	3	8	18	15	15	15	18	36	
Great Northern Peninsula	56	16	23	17	208	220	218	220	191	333	
Notre Dame Bay	29	12	13	4	20	20	20	20	15	61	
Port Aux Basques	46	17	17	12	122	116	117	116	140	241	

Table 32: Number of data points and model scores for Northeastern United States

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	479	51	117	311	1273	1289	1287	1292	701	1300	
Connecticut	95	0	41	54	85	85	85	85	40	72	
Eastern Maine	49	0	4	45	104	107	107	106	20	33	
Long Island	25	0	6	19	129	130	130	131	115	148	
New Jersey	62	6	11	45	200	201	201	202	124	175	
New York	76	6	19	51	260	262	262	262	97	223	
Northern Massachusetts	43	3	16	24	70	70	70	70	34	68	
Southern Maine	86	24	6	56	331	338	337	340	191	445	
Southern Massachusetts	43	12	14	17	94	96	95	96	80	136	

5.1.10 Pacific Islands

Table 33: Number of data points and model scores for French Polynesia

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	191	0	0	191	157	143	148	142	144	197	
Mururoa	12	0	0	12	119	112	114	112	112	131	
Tahiti	179	0	0	179	38	31	34	30	32	66	

Table 34: Number of data points and model scores for Melansia

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	82	11	0	71	19	20	20	20	20	24	
Vanuatu	82	11	0	71	19	20	20	20	20	24	

5.1.11 Proxy Based Sea Level

Table 35: Number of data points and model scores for Red Sea

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	165	0	0	165	29	26	27	25	32	39	
Bab-el-Mandeb proxy	165	0	0	165	29	26	27	25	32	39	

5.1.12 South Asia

Table 36: Number of data points and model scores for Bay of Bengal

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	5	4	0	1	5	4	5	4	4	6	
Ganges Delta	5	4	0	1	5	4	5	4	4	6	

5.1.13 Southeast Asia

Table 37: Number of data points and model scores for Java Sea

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	72	18	2	52	319	315	318	320	124	298	
Belitung Island	25	0	0	25	114	112	113	115	60	116	
Central Java	6	0	0	6	31	30	31	31	10	21	
South Sulawesi	41	18	2	21	174	173	174	174	54	161	

Table 38: Number of data points and model scores for Papua New Guinea

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	58	35	0	23	14	18	16	18	15	4	
Huon Peninsula	58	35	0	23	14	18	16	18	15	4	

Table 39: Number of data points and model scores for South China Sea

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	2	0	2	0	0	0	0	0	0	0	
Xisha Islands	2	0	2	0	0	0	0	0	0	0	

Table 40: Number of data points and model scores for Sundaland

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	375	88	104	183	606	592	600	603	409	625	
Ca Na	18	7	8	3	37	36	37	37	15	27	
Chao Phraya	33	5	9	19	89	88	88	91	63	63	
East Malay Peninsula	4	3	1	0	7	7	7	7	3	5	
Mekong Delta	71	2	24	45	49	47	48	49	59	75	
Phuket	40	20	13	7	41	41	41	41	6	33	
Southeast Malay Penin-sula	13	12	0	1	36	35	36	36	4	35	
Strait Of Malacca	137	29	45	63	164	161	163	165	82	140	
Sunda Shelf	49	7	3	39	163	158	161	158	158	219	
Thale Noi	3	0	1	2	6	6	6	7	8	2	
Vietnam Shelf	5	1	0	4	12	11	11	10	11	24	
West Malay Peninsula	2	2	0	0	2	2	2	2	0	2	

5.2 MIS 3 and 4

5.2.1 Antarctica

Table 41: Number of data points and model scores for East Antarctica

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	68	62	6	0	2723	2906	2878	2907	2917	2730	
Langhovde	19	19	0	0	813	869	860	869	873	798	
Larsemann Hills	5	1	4	0	50	51	50	51	51	56	
Ongul Islands	35	35	0	0	1683	1790	1775	1791	1797	1658	
Rauer Group	9	7	2	0	177	196	193	196	196	218	

5.2.2 Australia

Table 42: Number of data points and model scores for Northern Australia

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	11	3	0	8	217	209	212	209	211	214	
Bonaparte Gulf	4	1	0	3	81	78	79	78	79	80	
Bonaparte Gulf SLI Ishiwa2019	4	2	0	2	55	53	54	53	53	54	
Bonaparte Gulf SLI Yokoyama2000	3	0	0	3	81	78	79	78	79	80	

Table 43: Number of data points and model scores for Queensland

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	74	22	0	52	744	689	705	688	694	787	
Cairns	45	11	0	34	646	601	614	600	606	679	
Hydrographers Passage	28	11	0	17	82	71	74	71	71	93	
Townsville	1	0	0	1	16	17	17	17	17	15	

5.2.3 Caribbean

Table 44: Number of data points and model scores for Lesser Antilles

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	8	0	0	8	174	168	170	168	168	173	
Barbados	8	0	0	8	174	168	170	168	168	173	

5.2.4 East Asia

Table 45: Number of data points and model scores for Ryukyu Islands

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	76	70	0	6	8	6	7	6	6	11	
Kikaijima 1.9 mm	38	35	0	3	0	0	0	0	0	0	
Kikaijima 2.1 mm	38	35	0	3	8	6	7	6	6	11	

Table 46: Number of data points and model scores for Sea of Japan - East Sea

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	4	1	1	2	77	74	75	74	74	82	
Tsushima-Korea Strait	4	1	1	2	77	74	75	74	74	82	

Table 47: Number of data points and model scores for Yellow Sea

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	11	11	0	0	2	12	10	12	11	0	
South Bohai Sea	4	4	0	0	2	8	7	8	7	0	
Yellow Sea	7	7	0	0	0	4	3	4	4	0	

5.2.5 Greenland

Table 48: Number of data points and model scores for Northeast Greenland

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	9	9	0	0	201	167	147	170	164	234	
Cape Morris Jesup	4	4	0	0	82	77	67	79	76	135	
Kap Clarence Wyckoff	4	4	0	0	78	53	45	54	52	55	
Nansen land	1	1	0	0	41	37	35	37	36	44	

5.2.6 North America Atlantic

Table 49: Number of data points and model scores for Eastern United States

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	23	5	15	3	104	109	107	109	107	148	
Eastern Shore	6	1	5	0	13	13	13	13	13	22	
Northern North Carolina	14	4	7	3	91	96	94	96	94	126	
Southern North Carolina	3	0	3	0	0	0	0	0	0	0	

5.2.7 Pacific Islands

Table 50: Number of data points and model scores for French Polynesia

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	19	0	0	19	224	215	218	215	216	239	
Mururoa	2	0	0	2	0	0	0	0	0	2	
Tahiti	17	0	0	17	224	215	218	215	216	237	

Table 51: Number of data points and model scores for Melansia

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	6	0	0	6	25	22	22	22	22	26	
Vanuatu	6	0	0	6	25	22	22	22	22	26	

5.2.8 Proxy Based Sea Level

Table 52: Number of data points and model scores for Java Sea

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	15	0	15	0	0	0	0	0	0	0	
Karimata Strait proxy	15	0	15	0	0	0	0	0	0	0	

Table 53: Number of data points and model scores for Red Sea

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	318	0	0	318	5175	4936	5035	4934	4970	5380	
Bab-el-Mandeb proxy	318	0	0	318	5175	4936	5035	4934	4970	5380	

5.2.9 South Asia

Table 54: Number of data points and model scores for Bay of Bengal

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	2	1	0	1	27	26	26	26	26	27	
Ganges Delta	2	1	0	1	27	26	26	26	26	27	

5.2.10 Southeast Asia

Table 55: Number of data points and model scores for Papua New Guinea

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	52	0	0	52	115	103	103	103	103	117	
Huon Peninsula	40	0	0	40	55	47	47	47	47	55	
Huon Peninsula de Gelder	12	0	0	12	60	56	56	56	56	62	

Table 56: Number of data points and model scores for South China Sea

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	1	0	1	0	19	18	18	18	18	19	
Xisha Islands	1	0	1	0	19	18	18	18	18	19	

Table 57: Number of data points and model scores for Sundaland

Location	number data	marine limiting	terrestrial limiting	index point	PM_1_A_h ehgr	PM_1_A_h_GR1 ehgr	PM_1_A_h_GR2 ehgr	PM_1_A_h_GR3 ehgr	PM_1_A_h_Ant_A_GR1 ehgr	PM_1_A_h ebgr	PM_
Total	33	14	17	2	283	285	288	285	287	278	
Berhala Strait	2	0	1	1	16	19	19	19	19	13	
Chao Phraya	3	3	0	0	77	84	83	84	84	71	
Mekong Delta	1	1	0	0	20	22	22	22	22	17	
Strait Of Malacca	11	2	9	0	10	8	9	8	9	16	
Sunda Shelf	15	7	7	1	160	152	155	152	153	161	
Vietnam Shelf	1	1	0	0	0	0	0	0	0	0	

6 MIS 1 and 2 (LGM to present) – Sea level Indicators and Proxies

The Holocene (roughly equivalent to MIS 1) spans from 11.65 kyr before present to present. MIS 2 encompasses the Last Glacial Maximum (27-19 kyr BP) and the deglacial period that goes until the end of the Younger Dryas. In general, paleo sea level proxies are abundant in the Holocene, when sea level was within 30 m of present, but are uncommon before that. The lack of proxies older than the Holocene is in a large part due to their inaccessibility (in water to deep for typical coring methods). In most cases, MIS 2 aged sea level proxies are from drowned coral reefs in tropical areas, or in relatively broad continental shelves.

6.1 Antarctica

6.1.1 East Antarctica

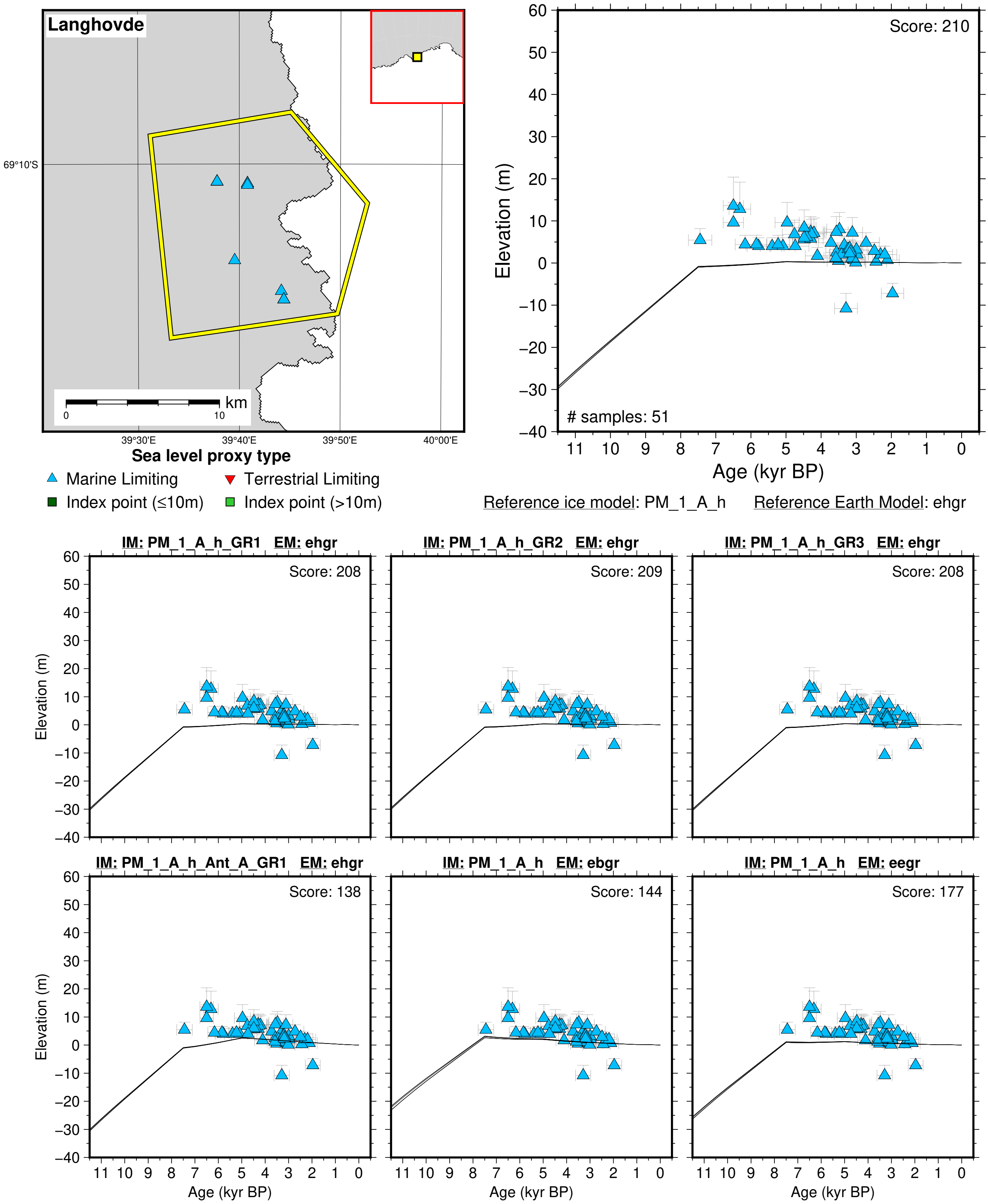

Figure 2: Paleo-sea level and comparison of six models for subregion: East Antarctica, location: Langhovde. References: Hayashi and Yoshida (1994); Hirakawa and Sawagaki (1998); Igarashi et al. (1995a,b); Ishiwa et al. (2021); Maemoku et al. (1997); Miura et al. (1998); Verleyen et al. (2017).

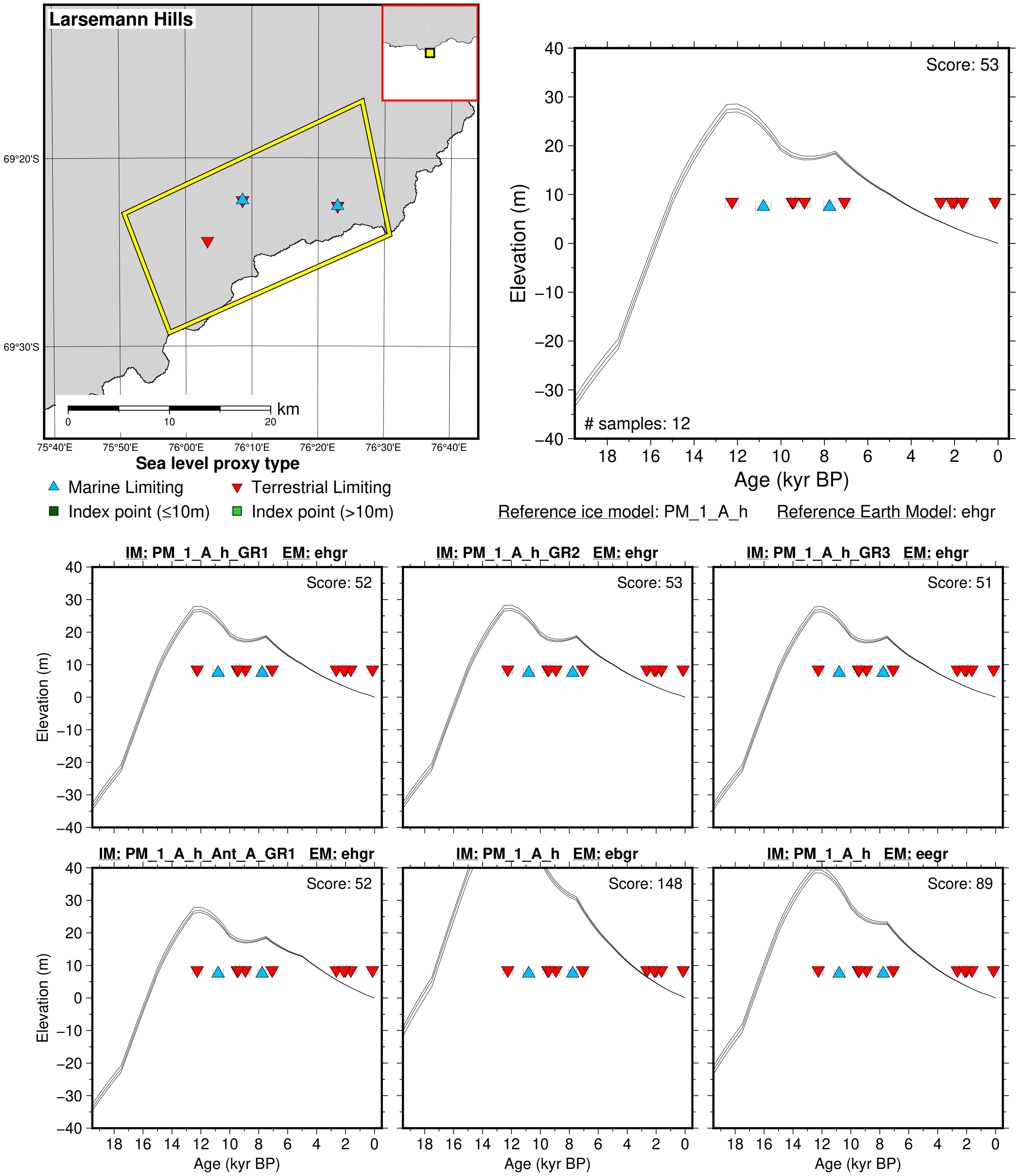

Figure 3: Paleo-sea level and comparison of six models for subregion: East Antarctica, location: Larsemann Hills. References: Hodgson et al. (2009); Ishiwa et al. (2021); Verleyen et al. (2005).

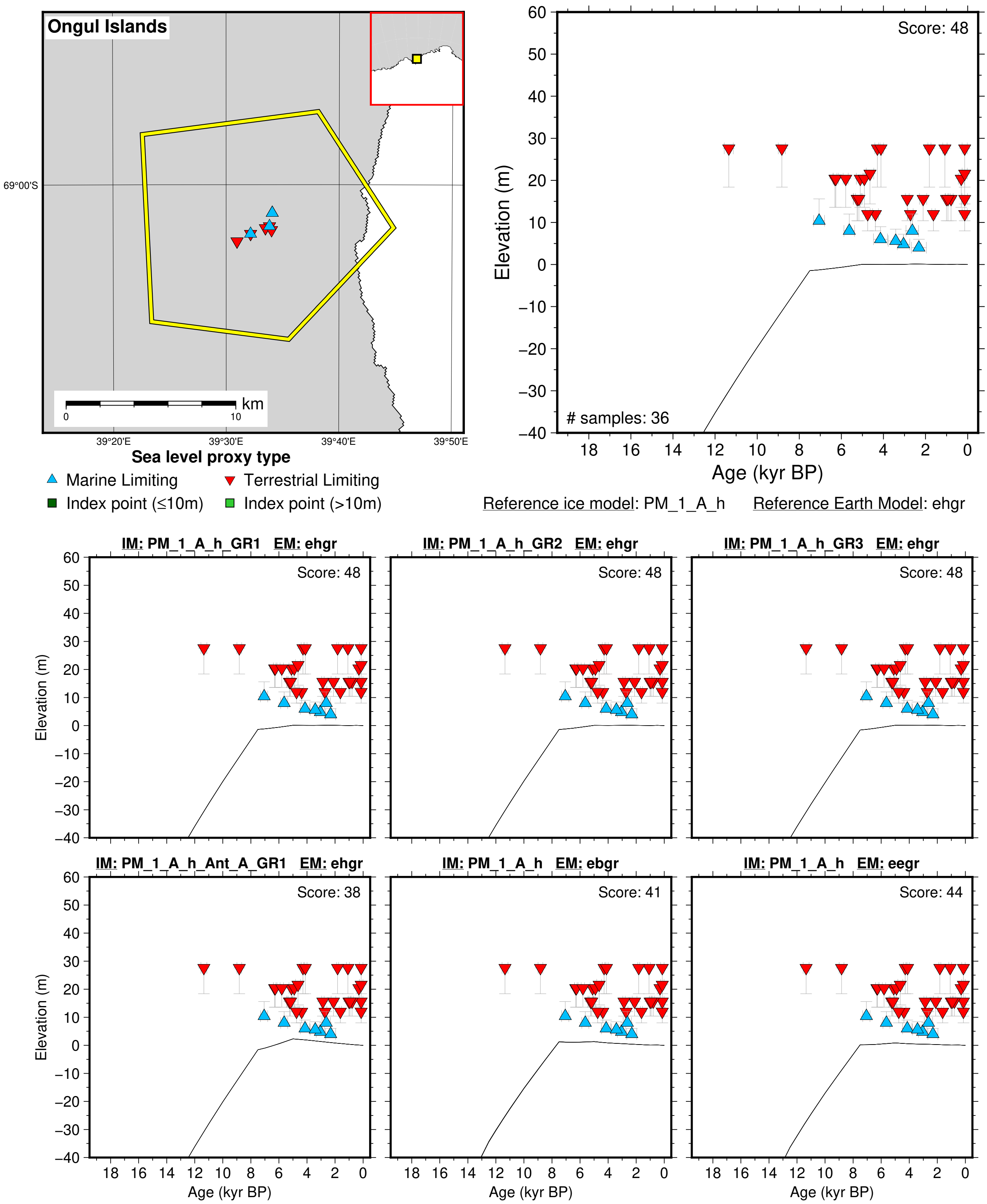

Figure 4: Paleo-sea level and comparison of six models for subregion: East Antarctica, location: Ongul Islands. References: Hirakawa and Sawagaki (1998); Ishiwa et al. (2021); Miura et al. (1998); Verleyen et al. (2017).

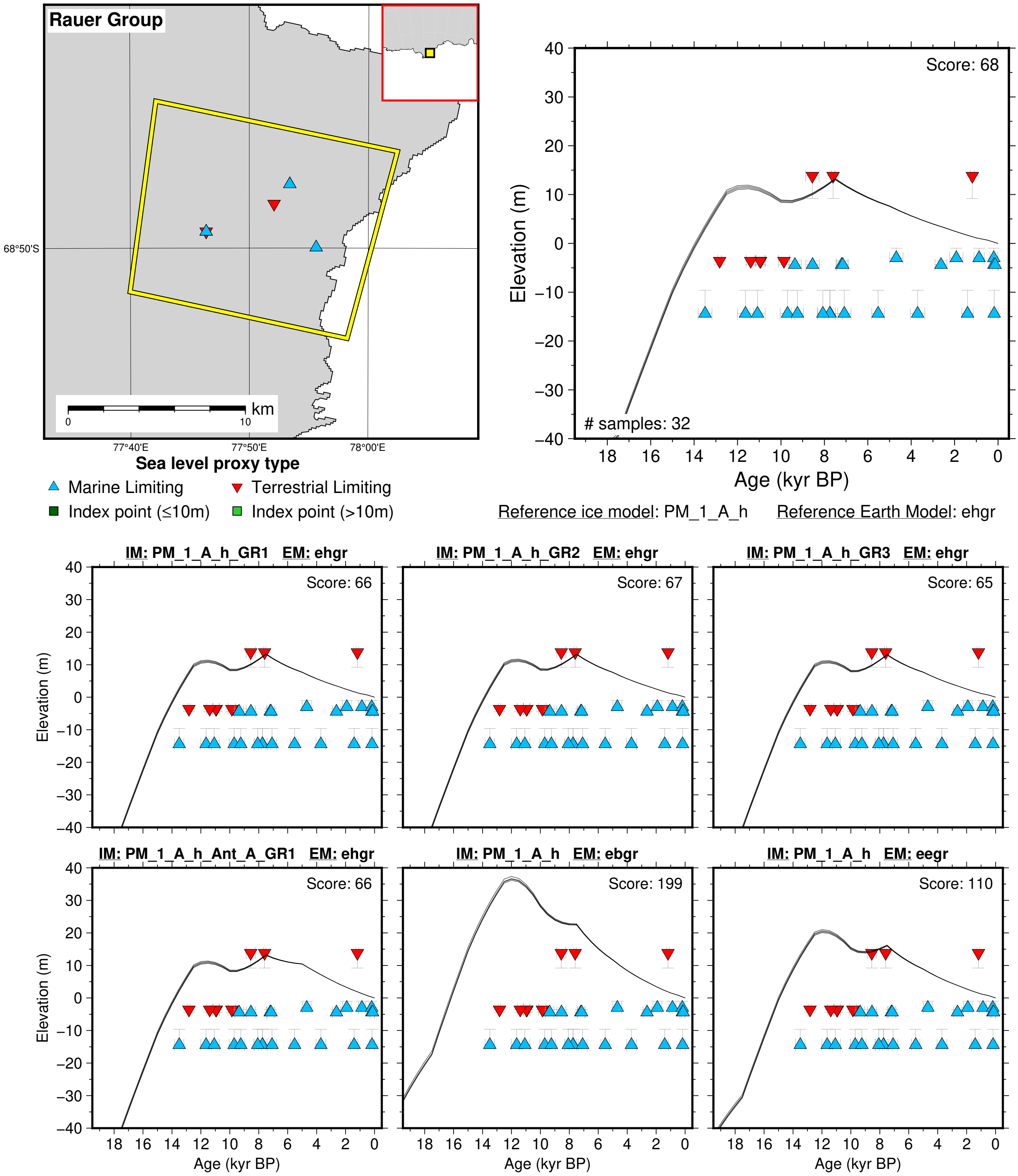

Figure 5: Paleo-sea level and comparison of six models for subregion: East Antarctica, location: Rauer Group. References: Berg et al. (2010a,b, 2016); Hodgson et al. (2016); Ishiwa et al. (2021).

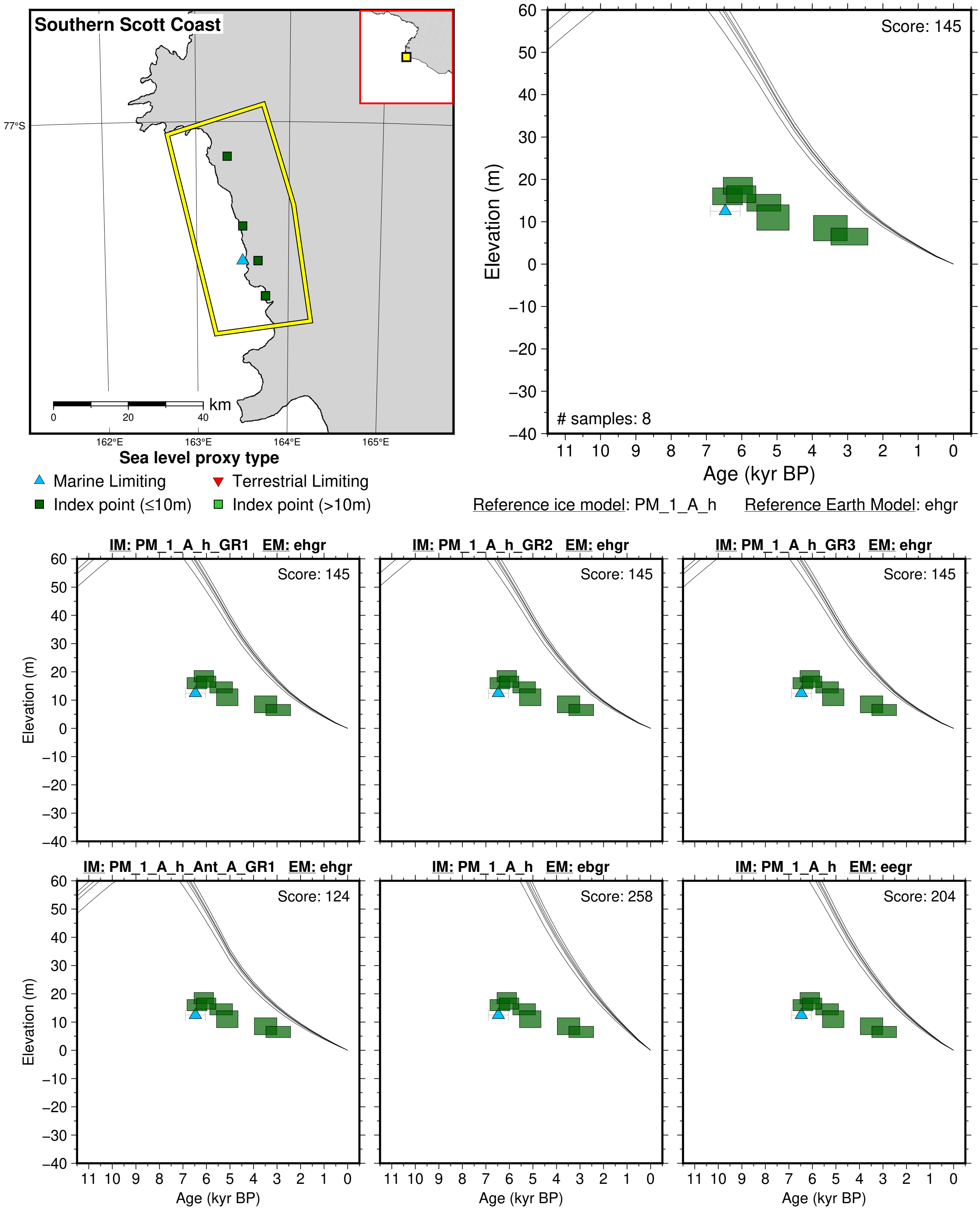

Figure 6: Paleo-sea level and comparison of six models for subregion: East Antarctica, location: Southern Scott Coast. References: Briggs and Tarasov (2013); Hall et al. (2004).

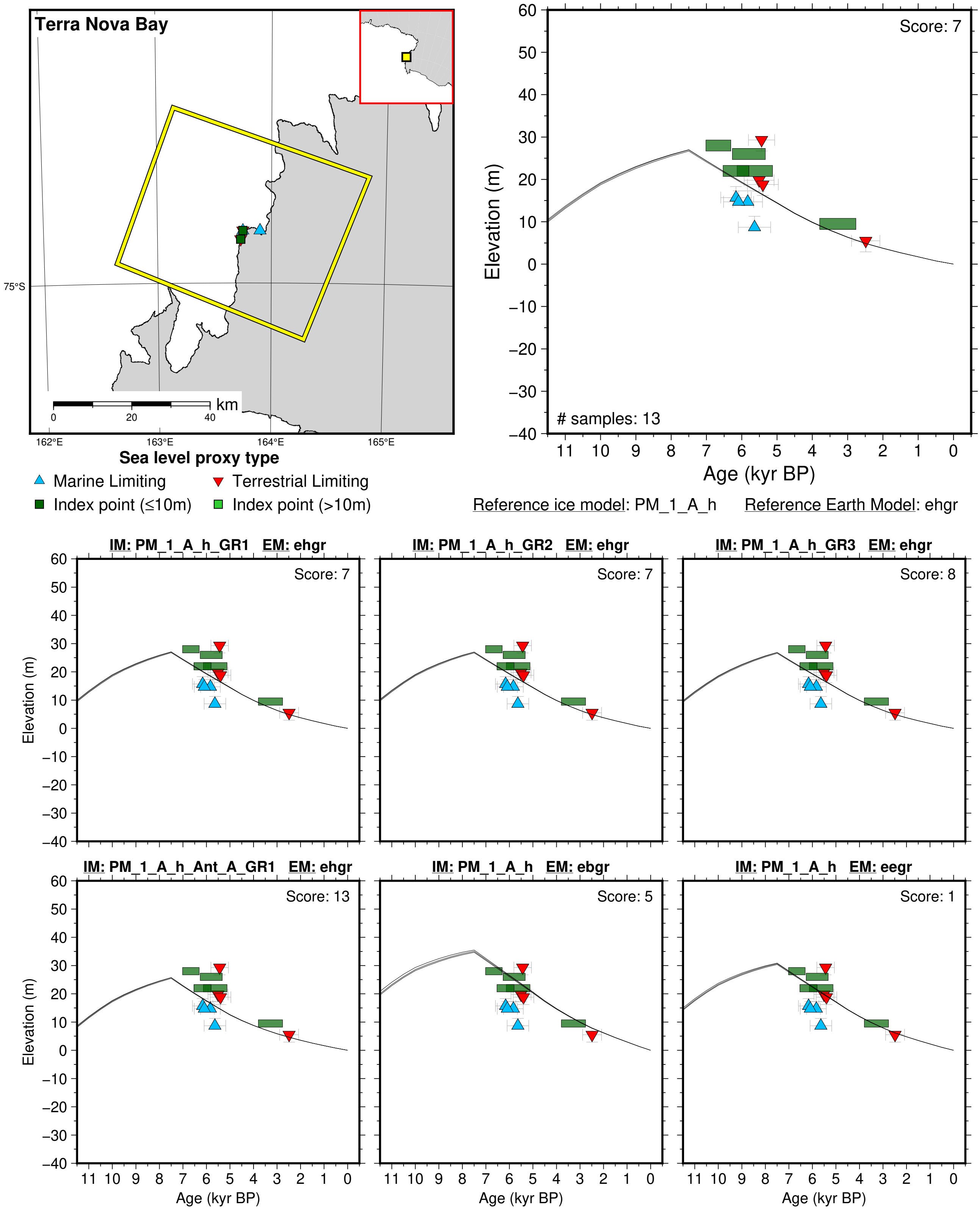

Figure 7: Paleo-sea level and comparison of six models for subregion: East Antarctica, location: Terra Nova Bay. References: Baroni and Hall (2004); Briggs and Tarasov (2013).

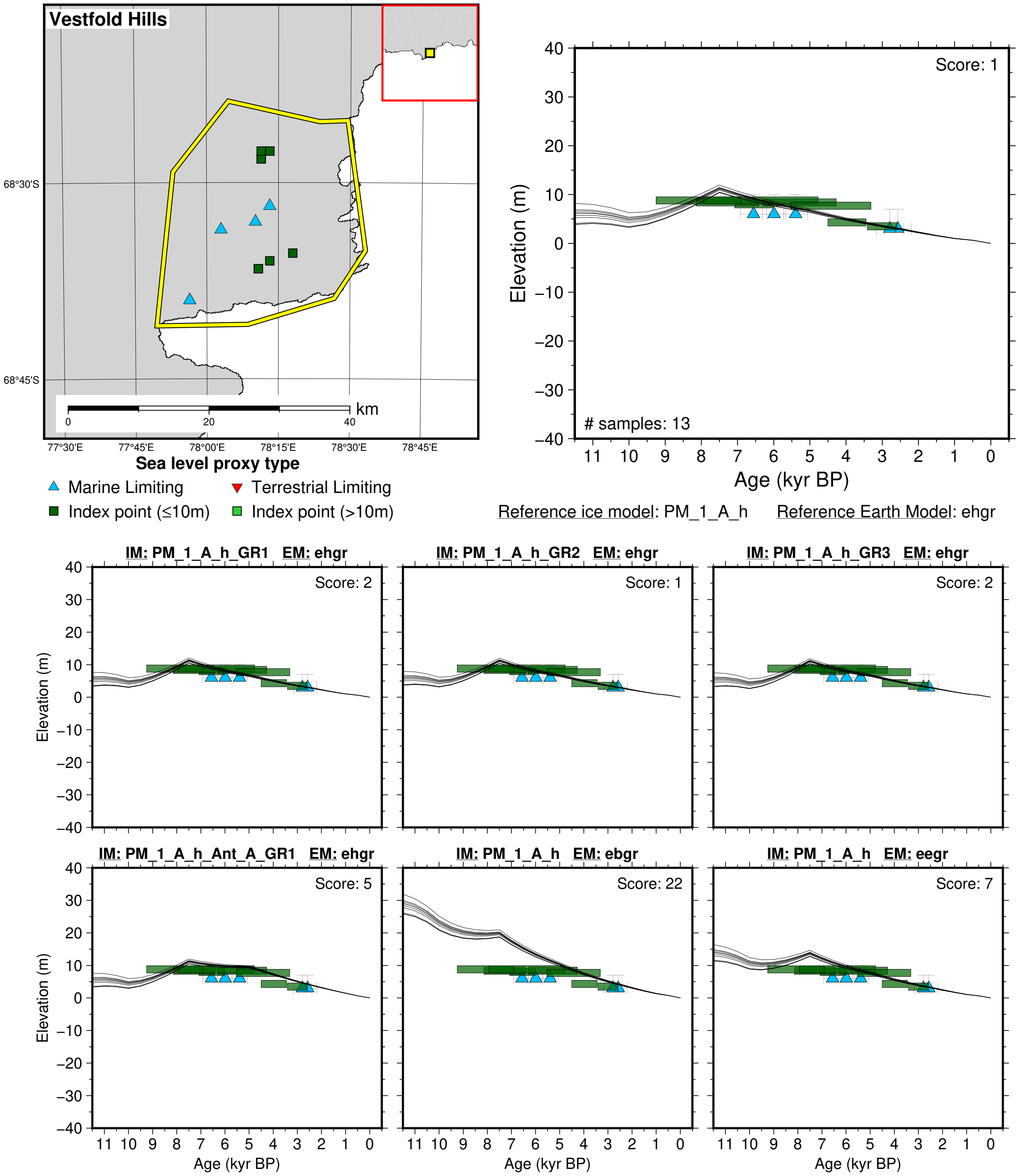

Figure 8: Paleo-sea level and comparison of six models for subregion: East Antarctica, location: Vestfold Hills. References: Briggs and Tarasov (2013); Zhang and Peterson (1984); Zwartz et al. (1998).

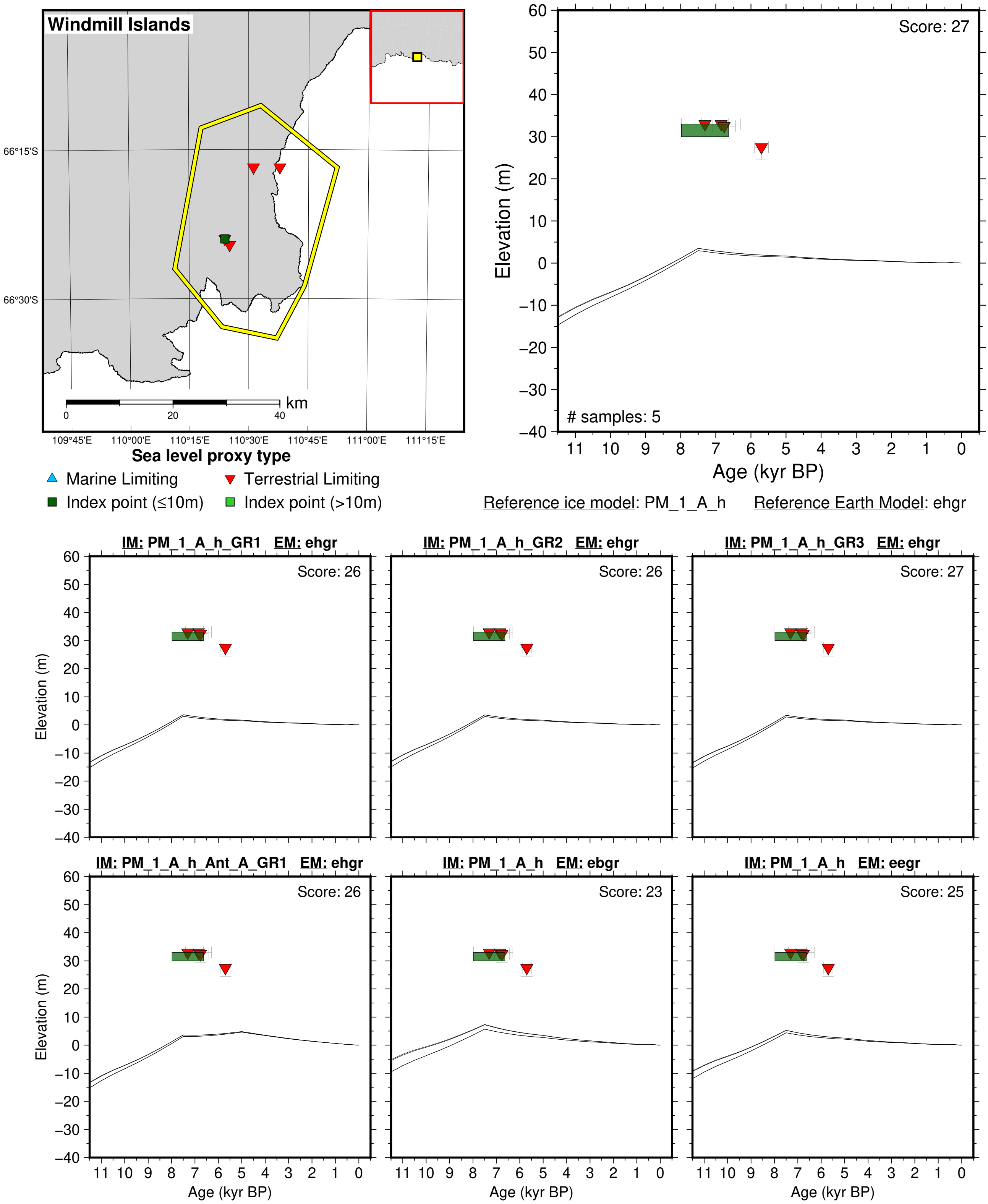

Figure 9: Paleo-sea level and comparison of six models for subregion: East Antarctica, location: Windmill Islands. References: Briggs and Tarasov (2013); Goodwin (1993); Goodwin and Zweck (2000).

6.1.2 West Antarctica

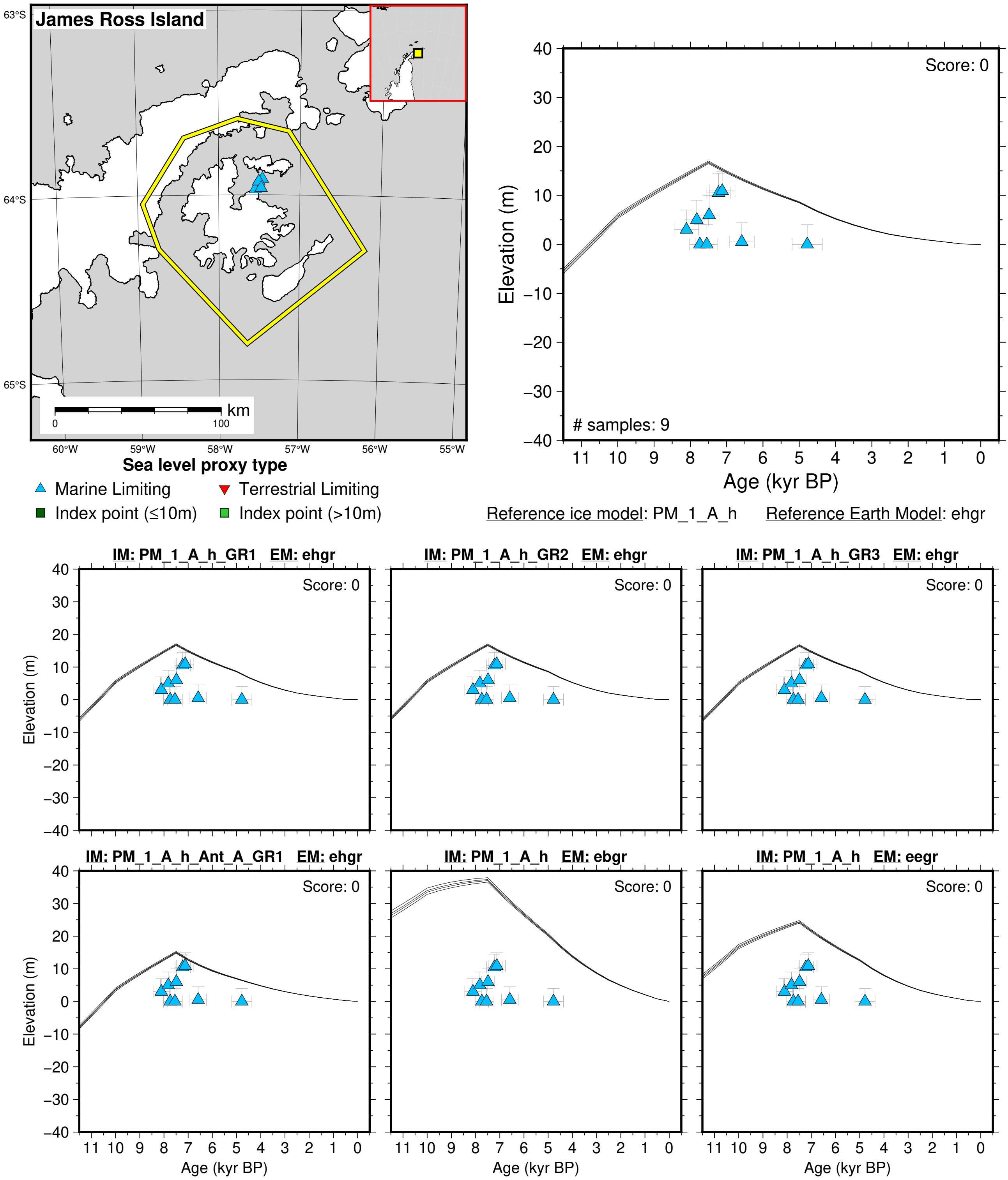

Figure 10: Paleo-sea level and comparison of six models for subregion: West Antarctica, location: James Ross Island. References: Hjort et al. (1997).

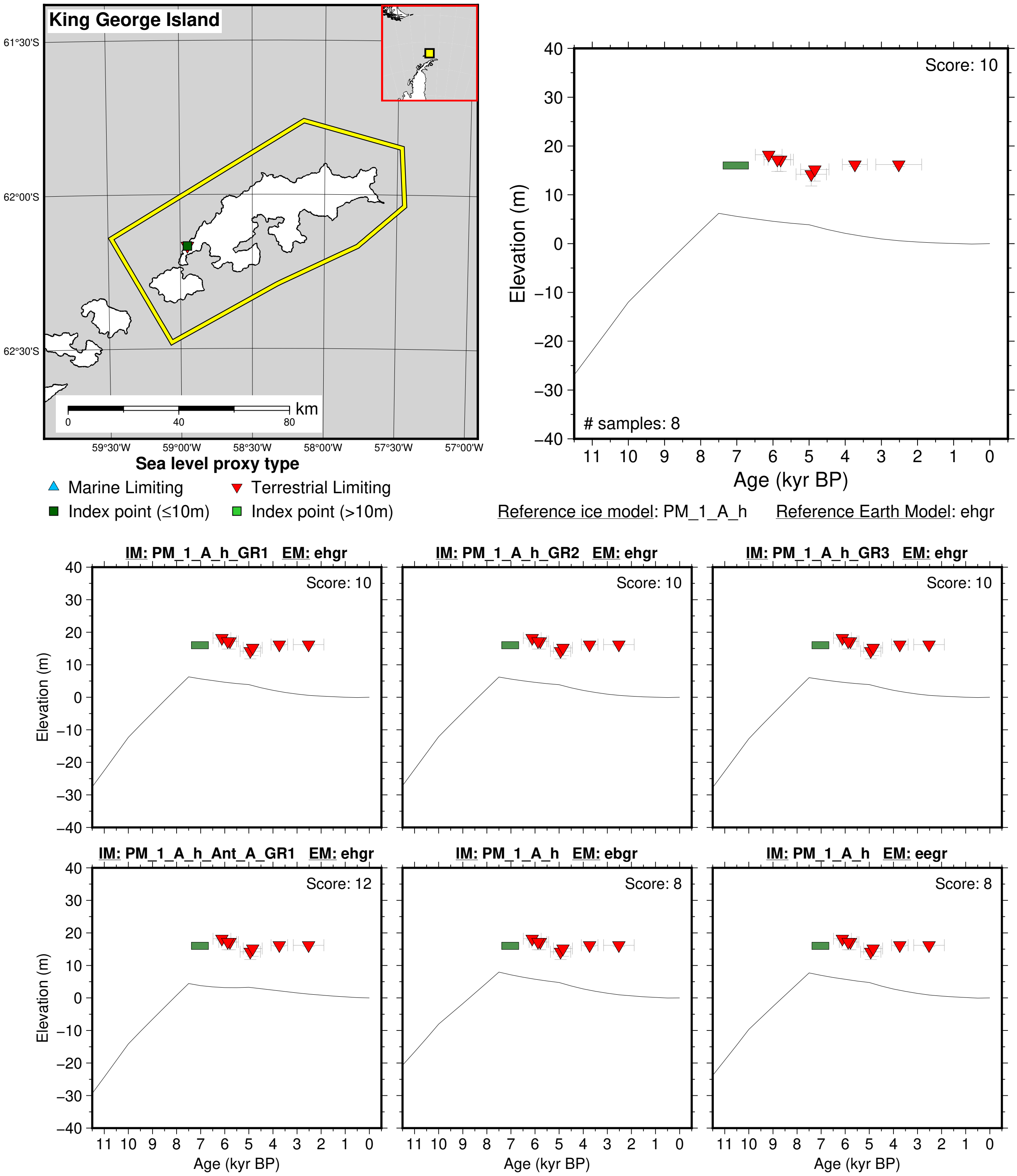

Figure 11: Paleo-sea level and comparison of six models for subregion: West Antarctica, location: King George Island. References: Barsch and Mäusbacher (1986); Bentley et al. (2005); Briggs and Tarasov (2013); Del Valle et al. (2002); Martinez-Macchiavello et al. (1996); Schmidt et al. (1990).

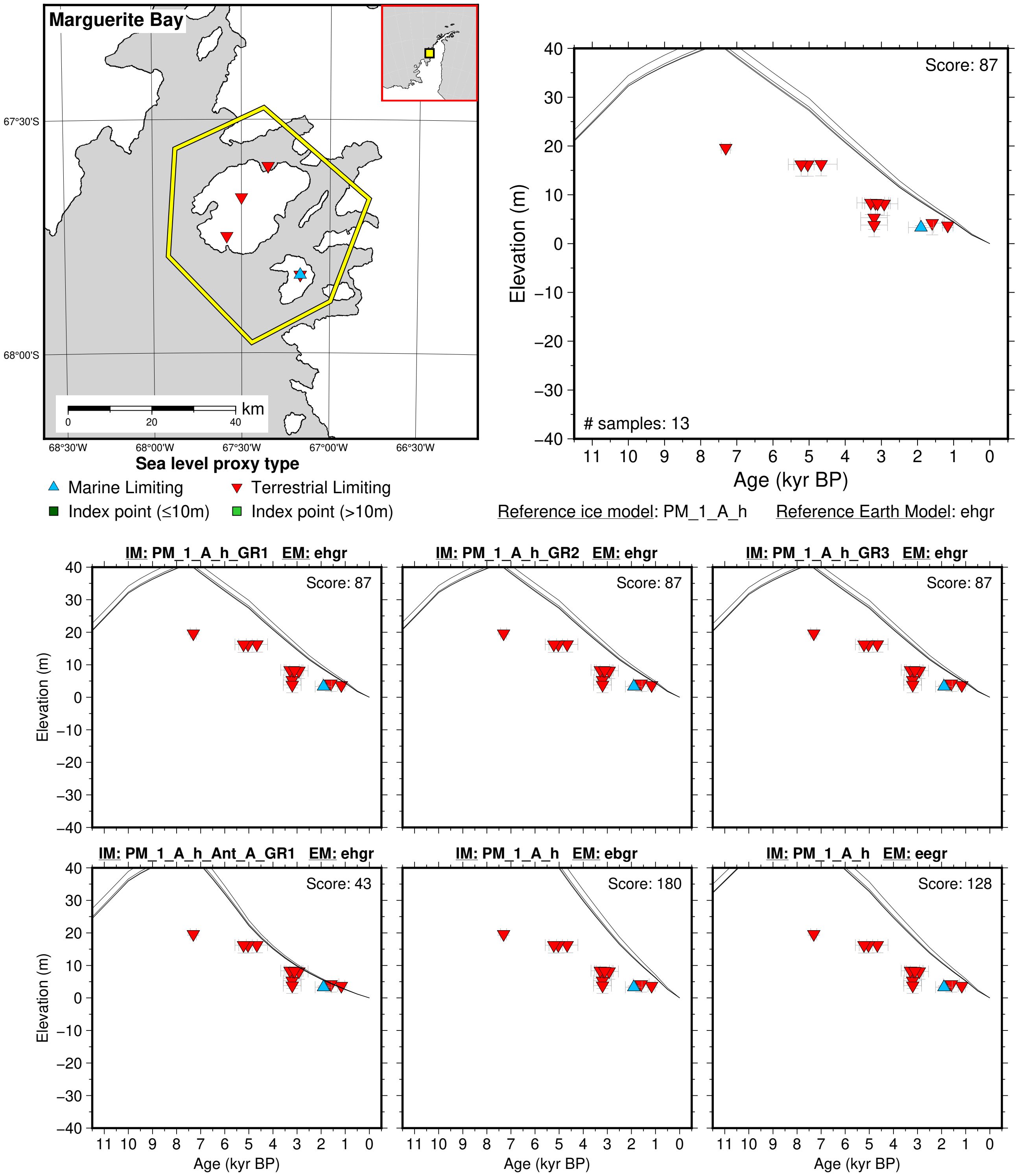

Figure 12: Paleo-sea level and comparison of six models for subregion: West Antarctica, location: Marguerite Bay. References: Bentley et al. (2005); Briggs and Tarasov (2013); Emslie and McDaniel (2002); Wasell and Håkansson (1992).

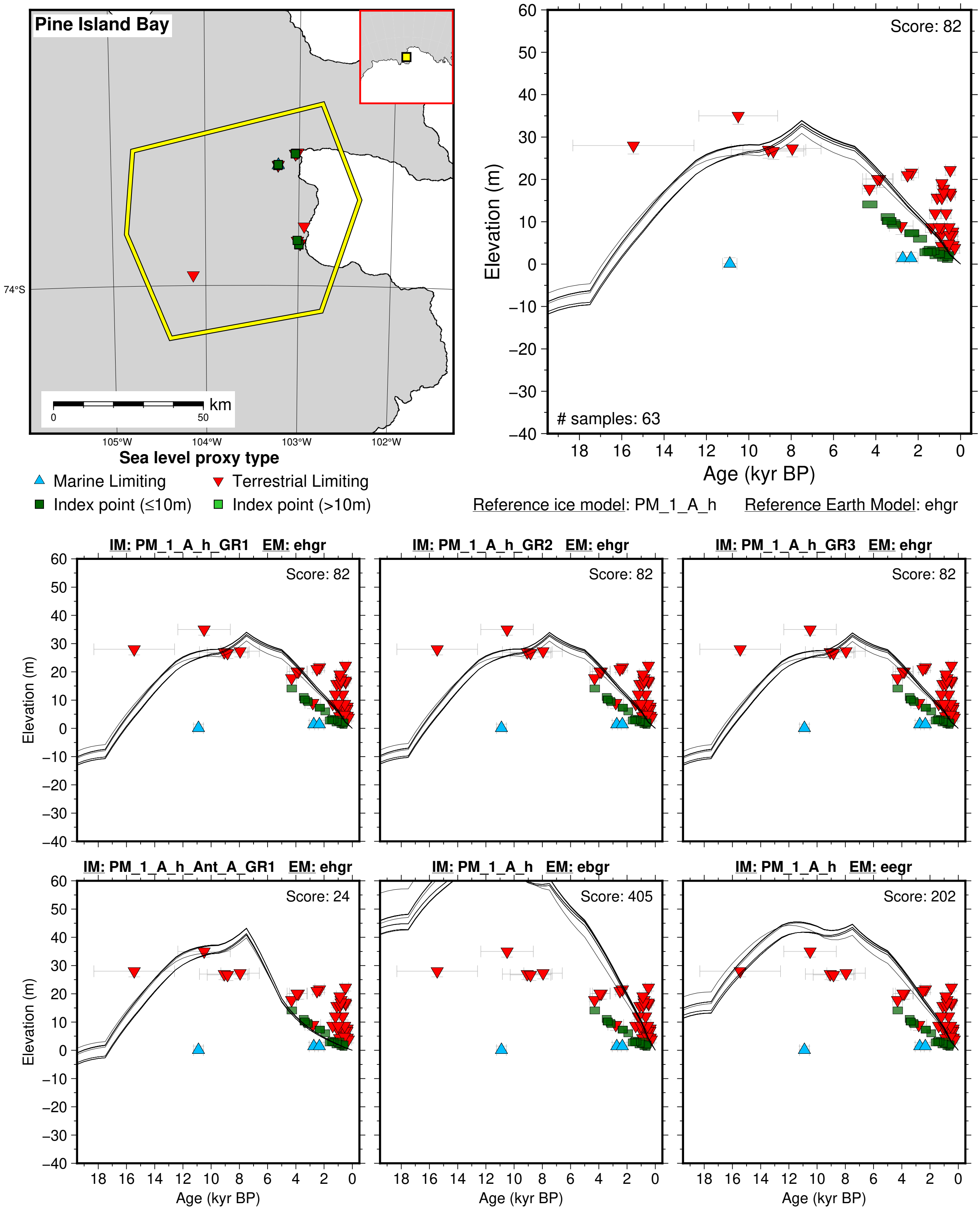

Figure 13: Paleo-sea level and comparison of six models for subregion: West Antarctica, location: Pine Island Bay. References: Braddock et al. (2022); Johnson et al. (2008); Lindow et al. (2014).

6.2 Australia

6.2.1 New South Wales

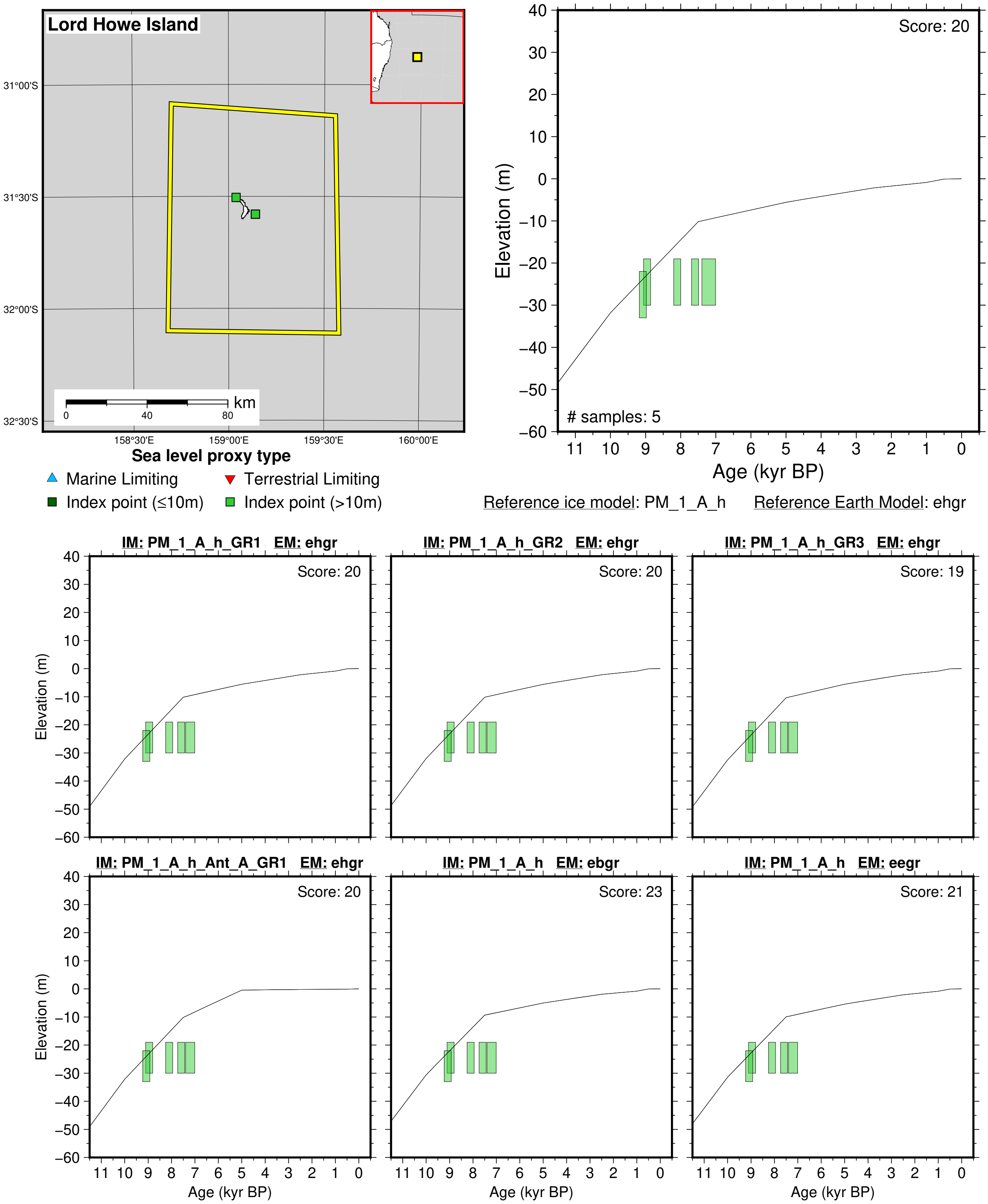

Figure 14: Paleo-sea level and comparison of six models for subregion: New South Wales, location: Lord Howe Island. References: Lewis et al. (2013); Woodroffe et al. (2010).

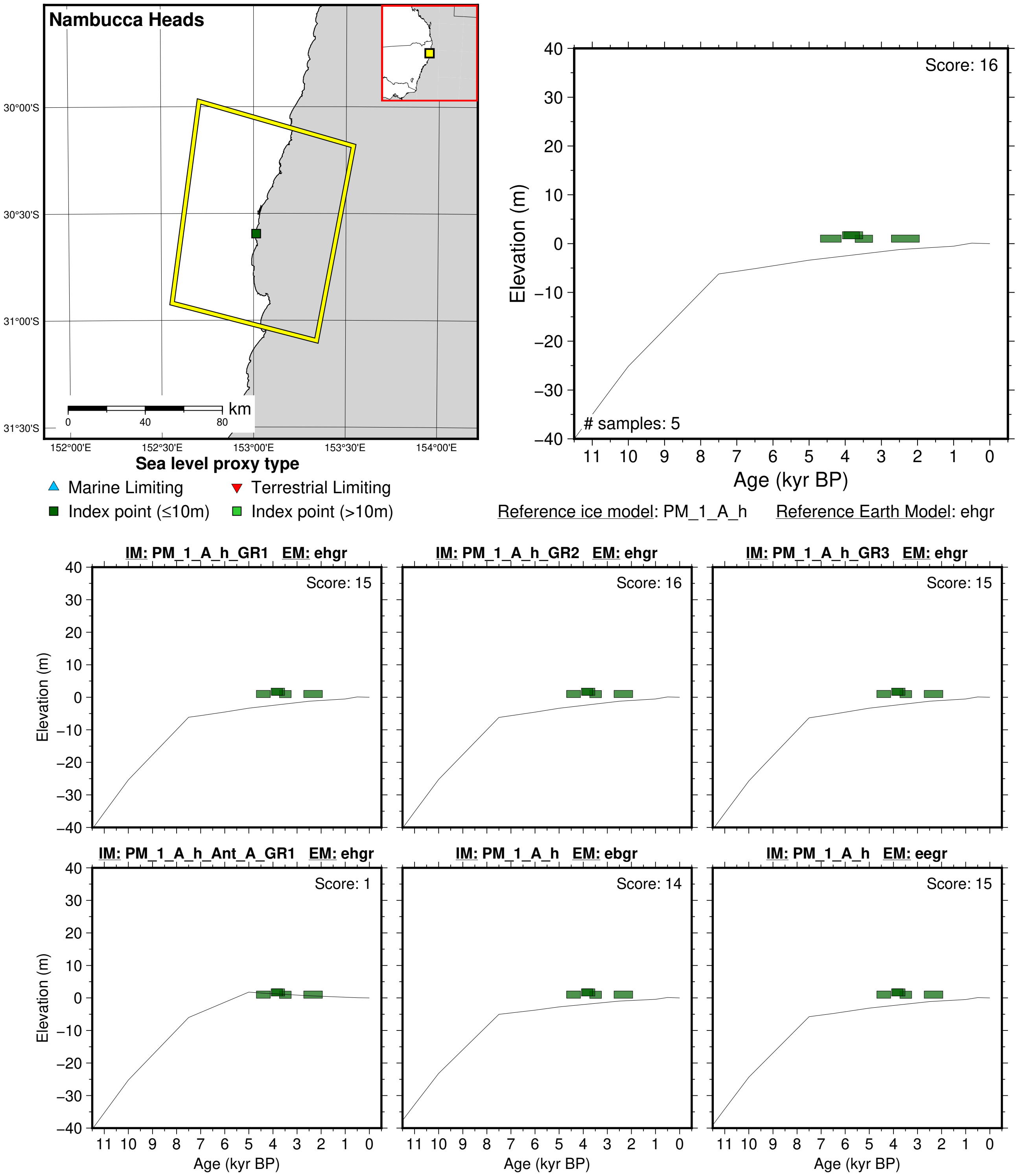

Figure 15: Paleo-sea level and comparison of six models for subregion: New South Wales, location: Nambucca Heads. References: Baker et al. (2001a,b); Flood and Frankel (1989); Haworth et al. (2002); Lewis et al. (2013); Sloss et al. (2007).

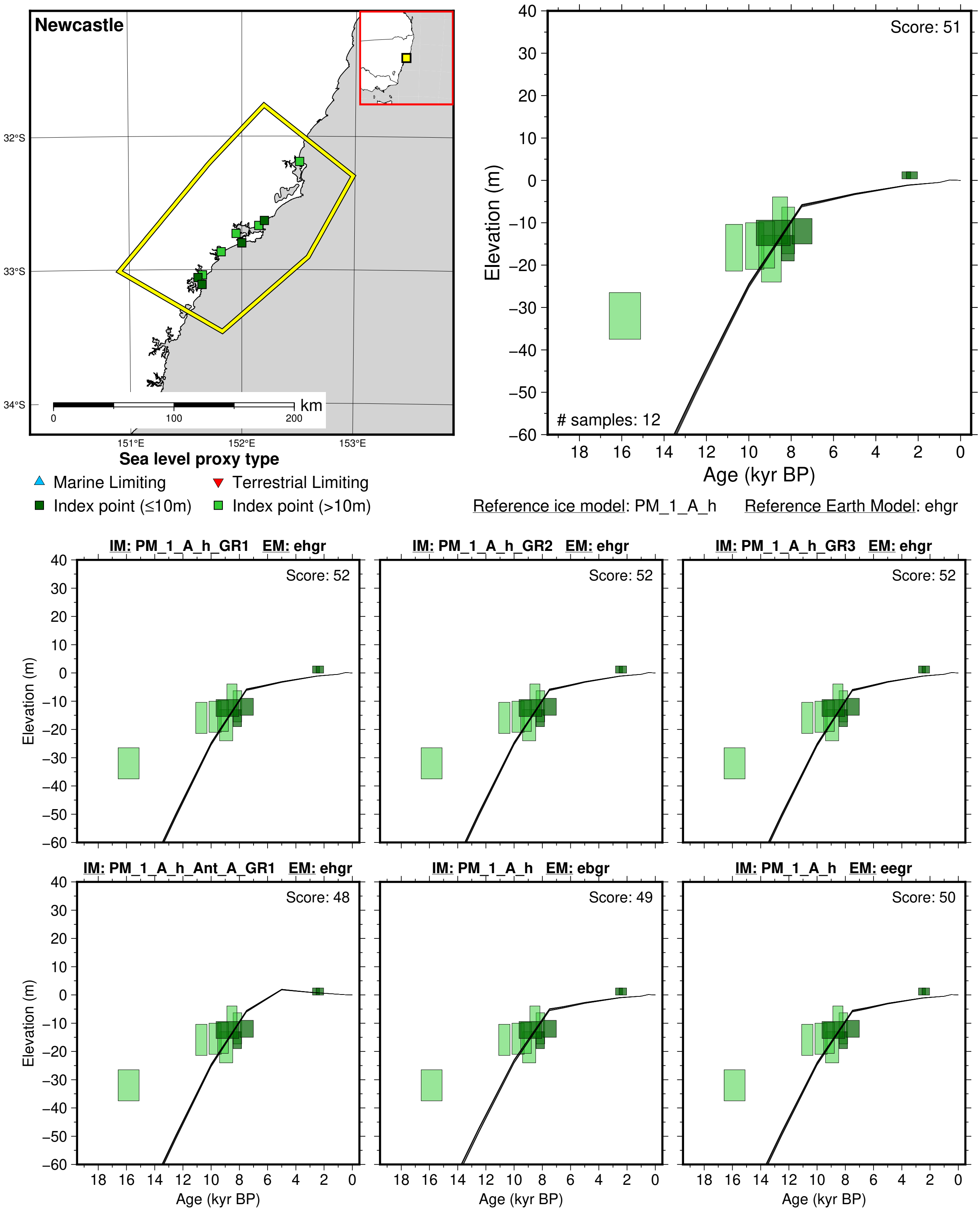

Figure 16: Paleo-sea level and comparison of six models for subregion: New South Wales, location: Newcastle. References: Baker et al. (2001a,b); Gillespie and Temple (1976); Haworth et al. (2002); Lewis et al. (2013); Sloss et al. (2007); Thom and Chappell (1975); Thom and Roy (1983).

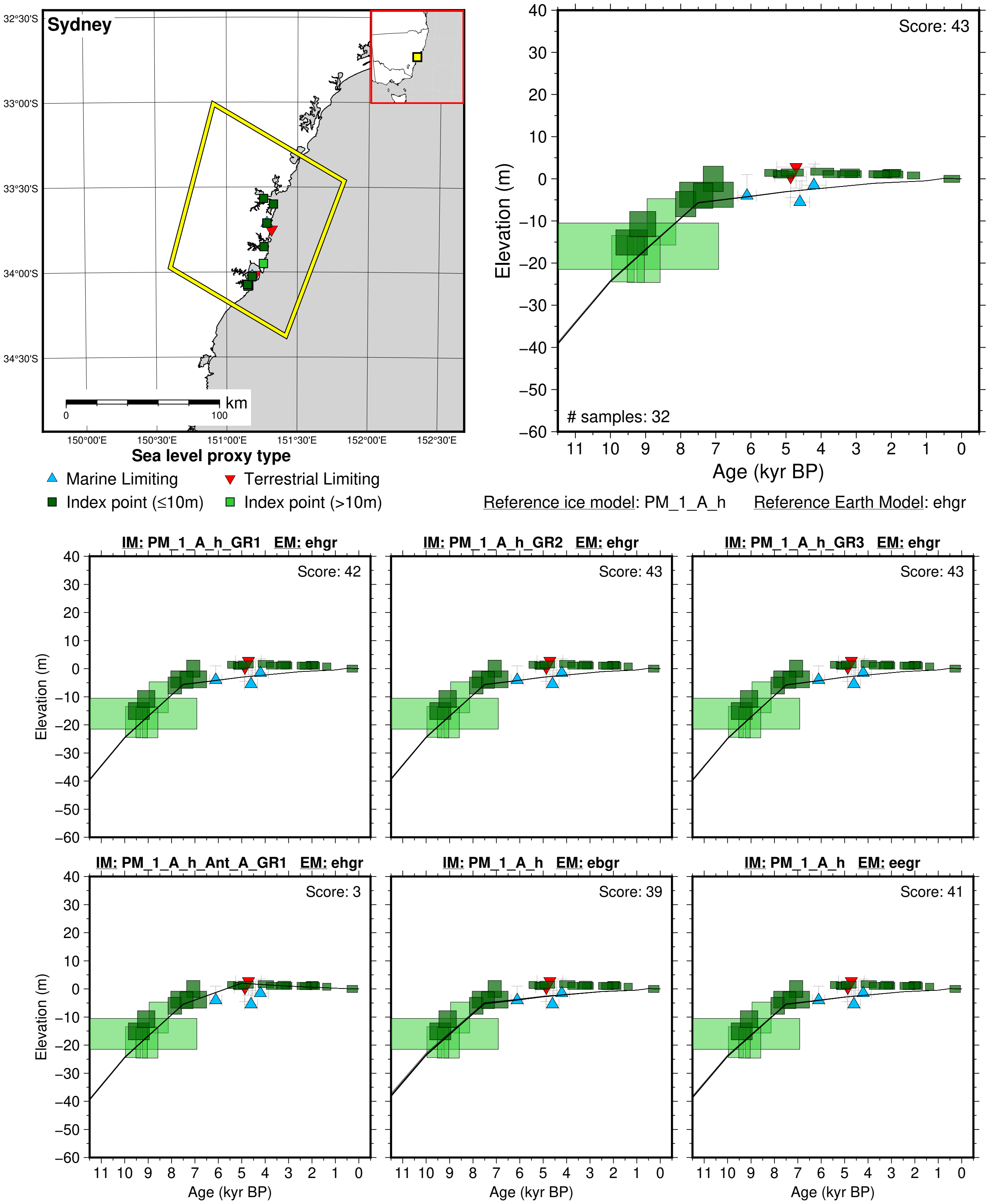

Figure 17: Paleo-sea level and comparison of six models for subregion: New South Wales, location: Sydney. References: Baker et al. (2001a); Baker and Haworth (2000, 1997); Baker et al. (2001b); Haworth et al. (2002); Lewis et al. (2013); Roy and Crawford (1981); Sloss et al. (2007); Thom and Chappell (1975); Thom and Roy (1983); Thom et al. (1969).

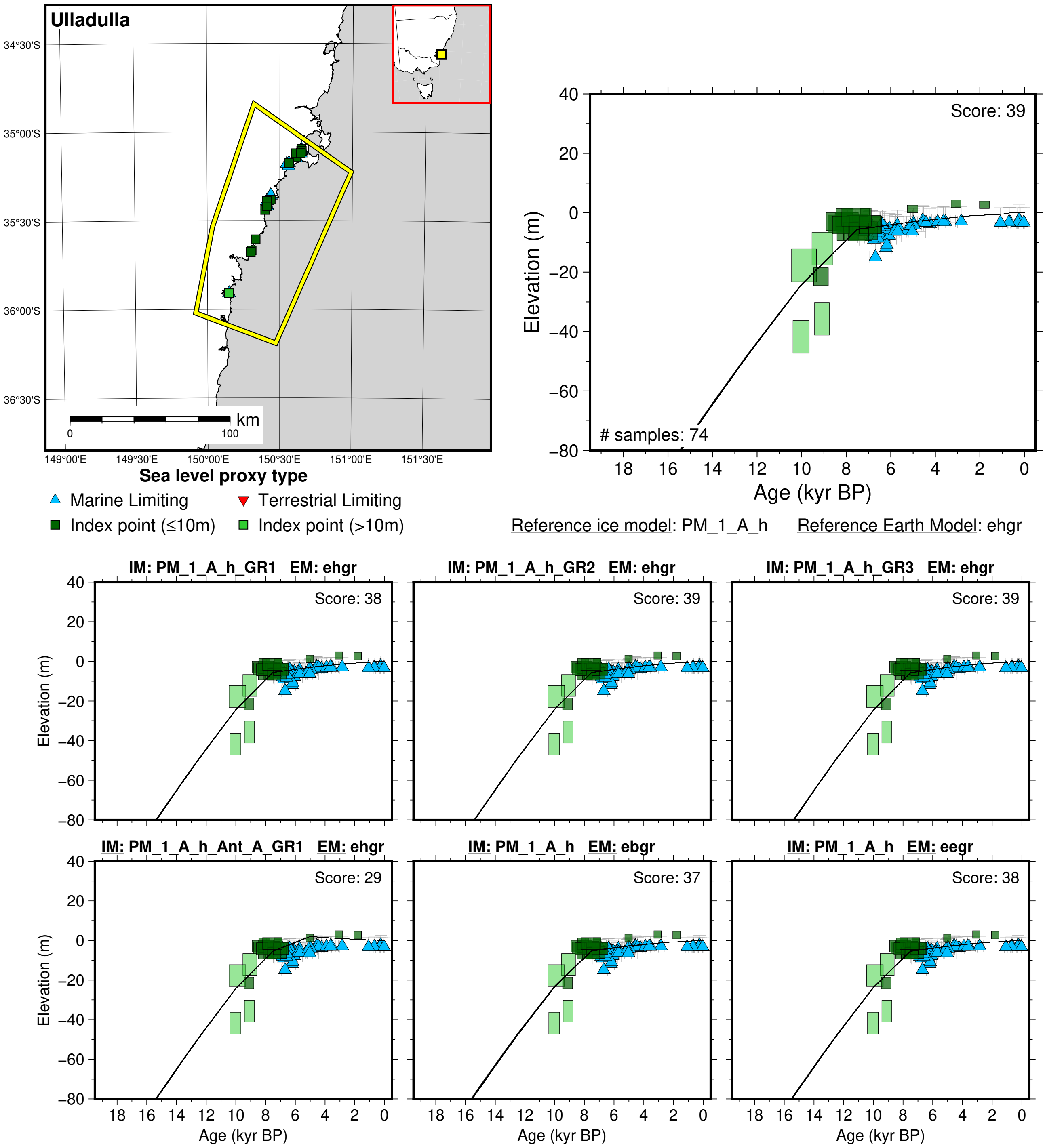

Figure 18: Paleo-sea level and comparison of six models for subregion: New South Wales, location: Ulladulla. References: Baker et al. (2001b); Haworth et al. (2002); Lewis et al. (2013); Sloss et al. (2004); Sloss (2005); Sloss et al. (2006, 2007, 2019); Thom and Chappell (1975).

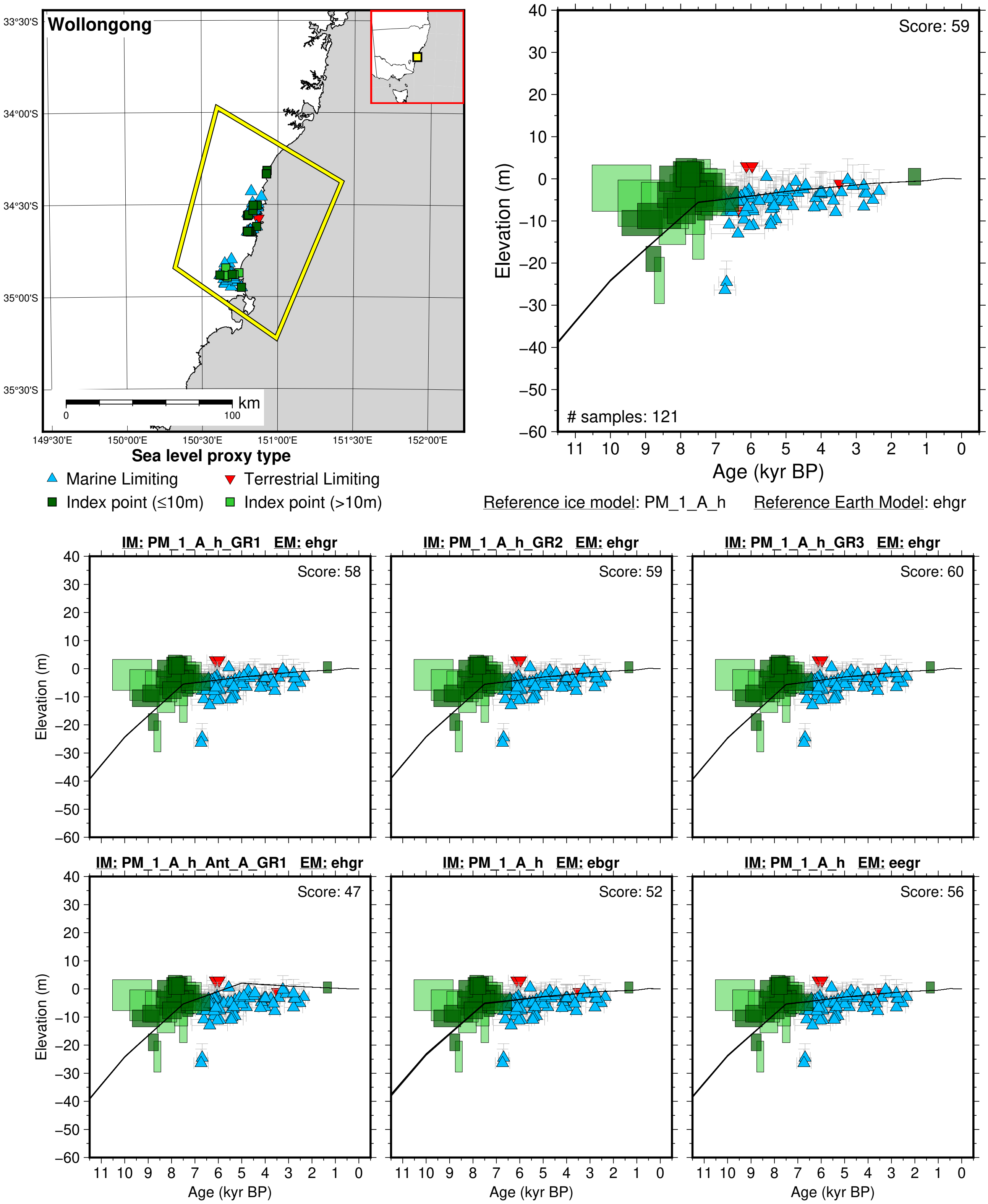

Figure 19: Paleo-sea level and comparison of six models for subregion: New South Wales, location: Wollongong. References: Bryant et al. (1992); Carne (1981); Jones et al. (1979); Jones (1990); Lewis et al. (2013); Murray-Wallace et al. (2000); Panayotou (2004); Sloss et al. (2004); Sloss (2005); Sloss et al. (2006, 2007); Umitsu et al. (2001); Young et al. (1993).

6.2.2 Northern Australia

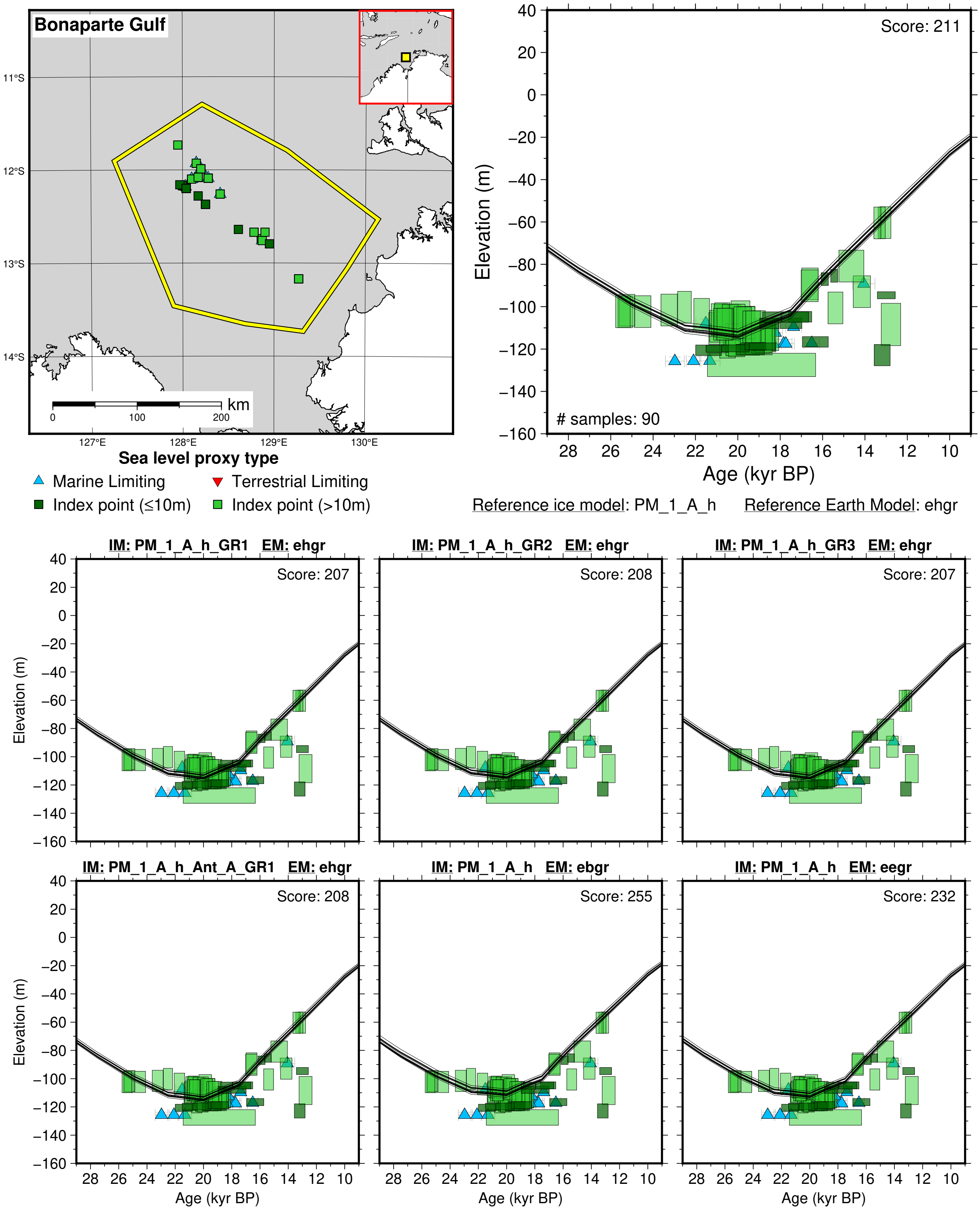

Figure 20: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: Bonaparte Gulf. References: Hubbs and Bien (1967); Ishiwa et al. (2019); Lewis et al. (2013); Nicholas et al. (2014); van Andel et al. (1967); Yokoyama et al. (2000).

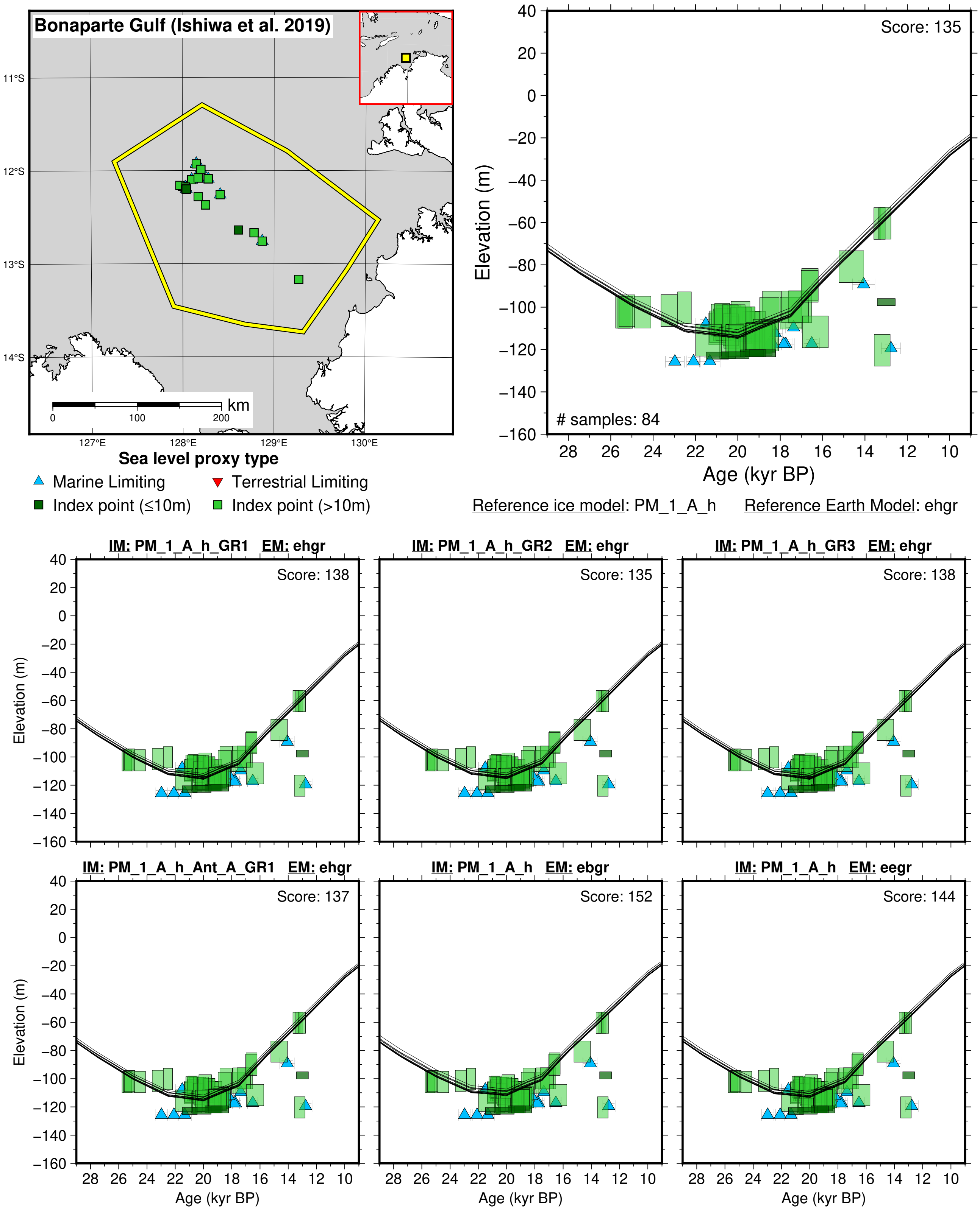

Figure 21: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: Bonaparte Gulf (Ishiwa *et al.* 2019 interpretation). References: Ishiwa et al. (2019); Yokoyama et al. (2000).

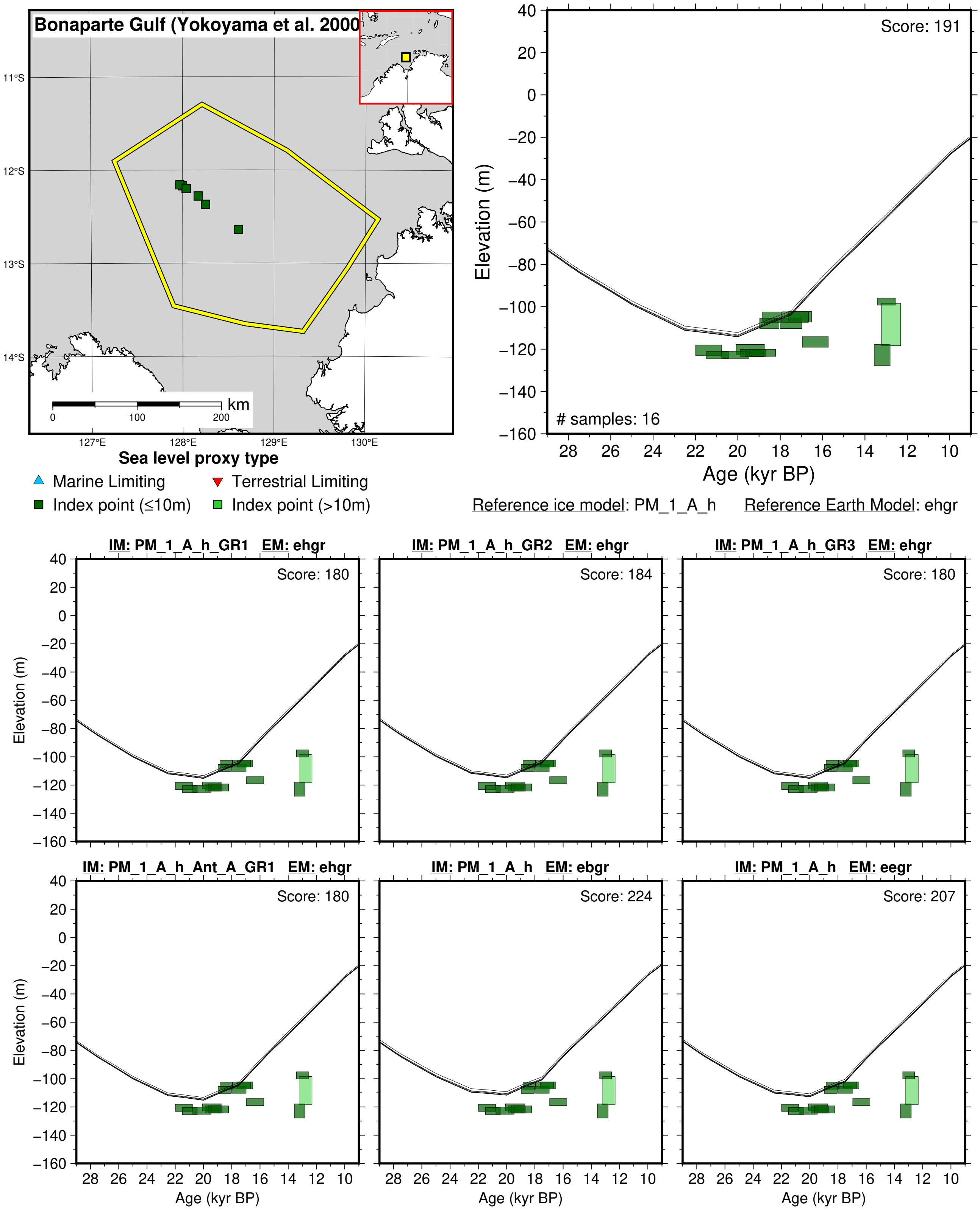

Figure 22: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: Bonaparte Gulf (Yokoyama *et al.* 2000 interpretation). References: Yokoyama et al. (2000).

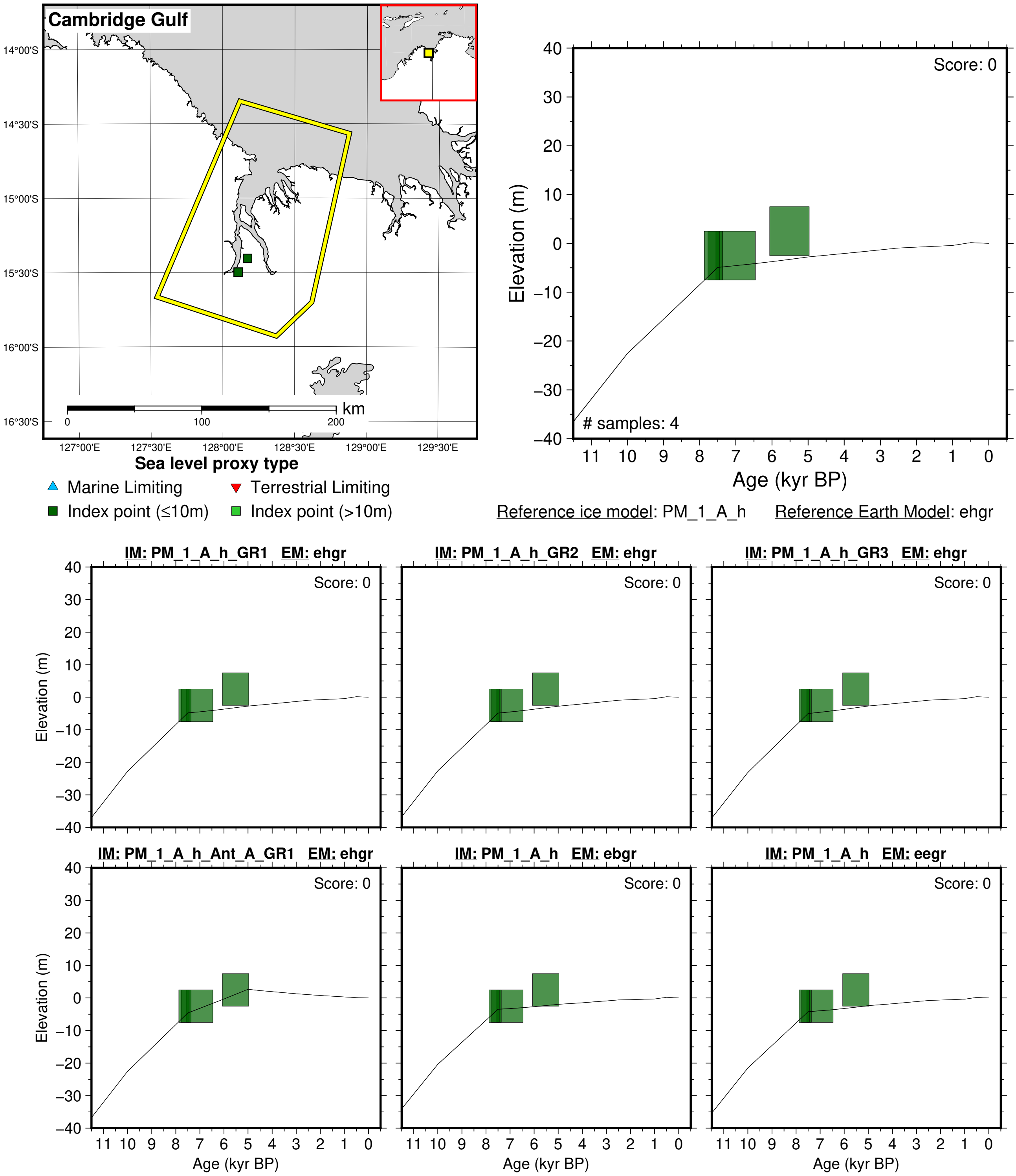

Figure 23: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: Cambridge Gulf. References: Lewis et al. (2013); Thom et al. (1975).

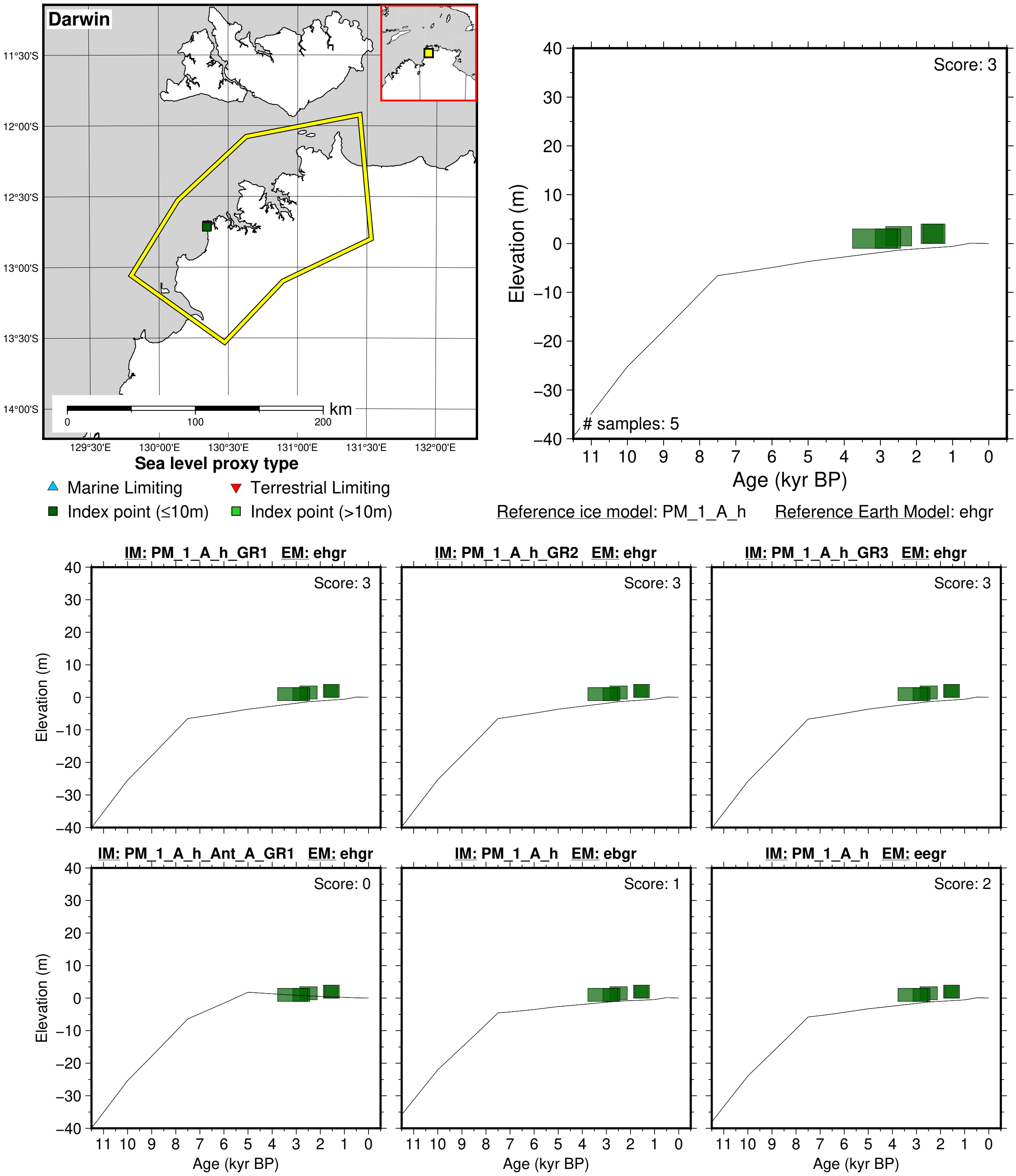

Figure 24: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: Darwin. References: Lewis et al. (2013); Nott (1996).

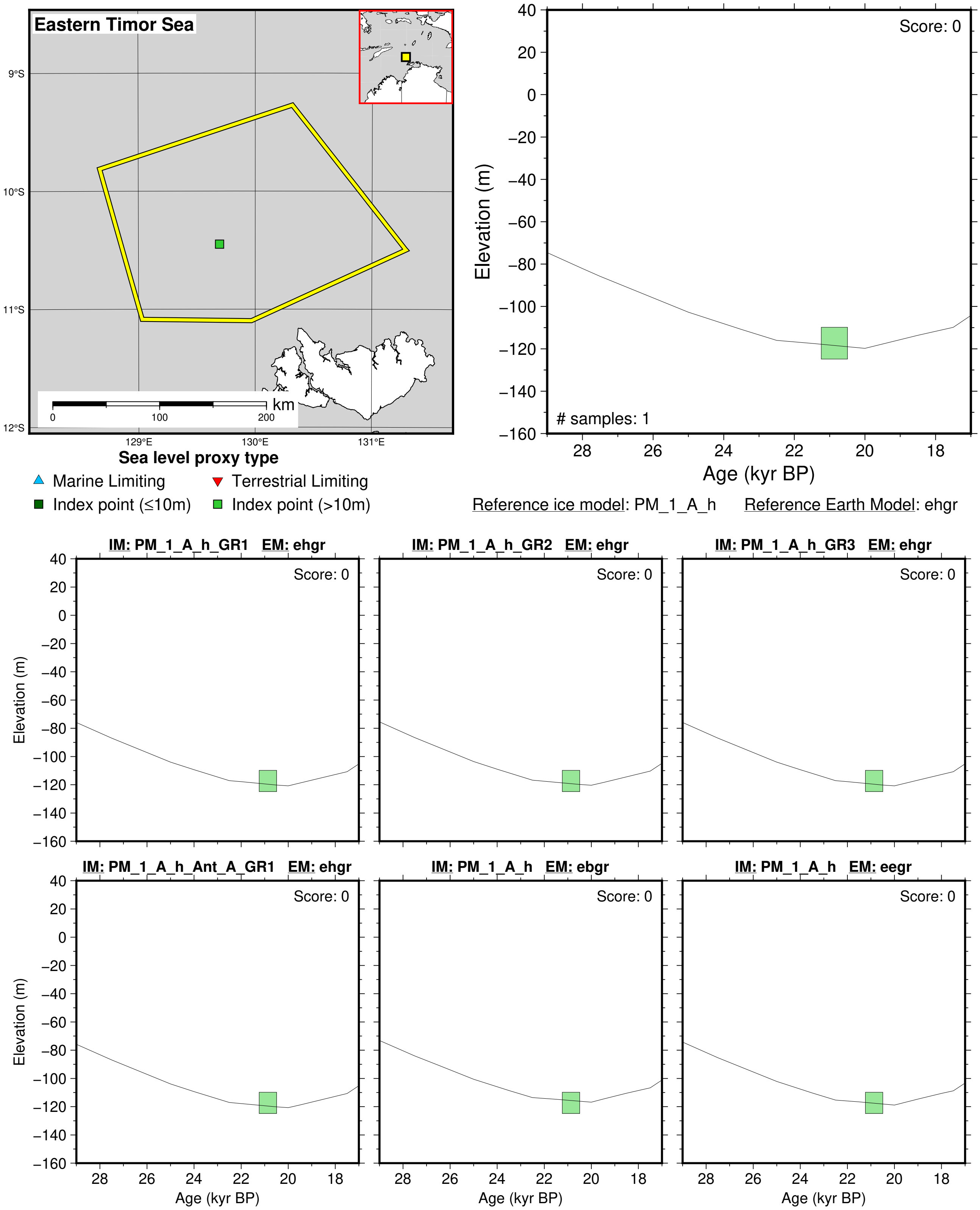

Figure 25: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: Eastern Timor Sea. References: Nicholas et al. (2014).

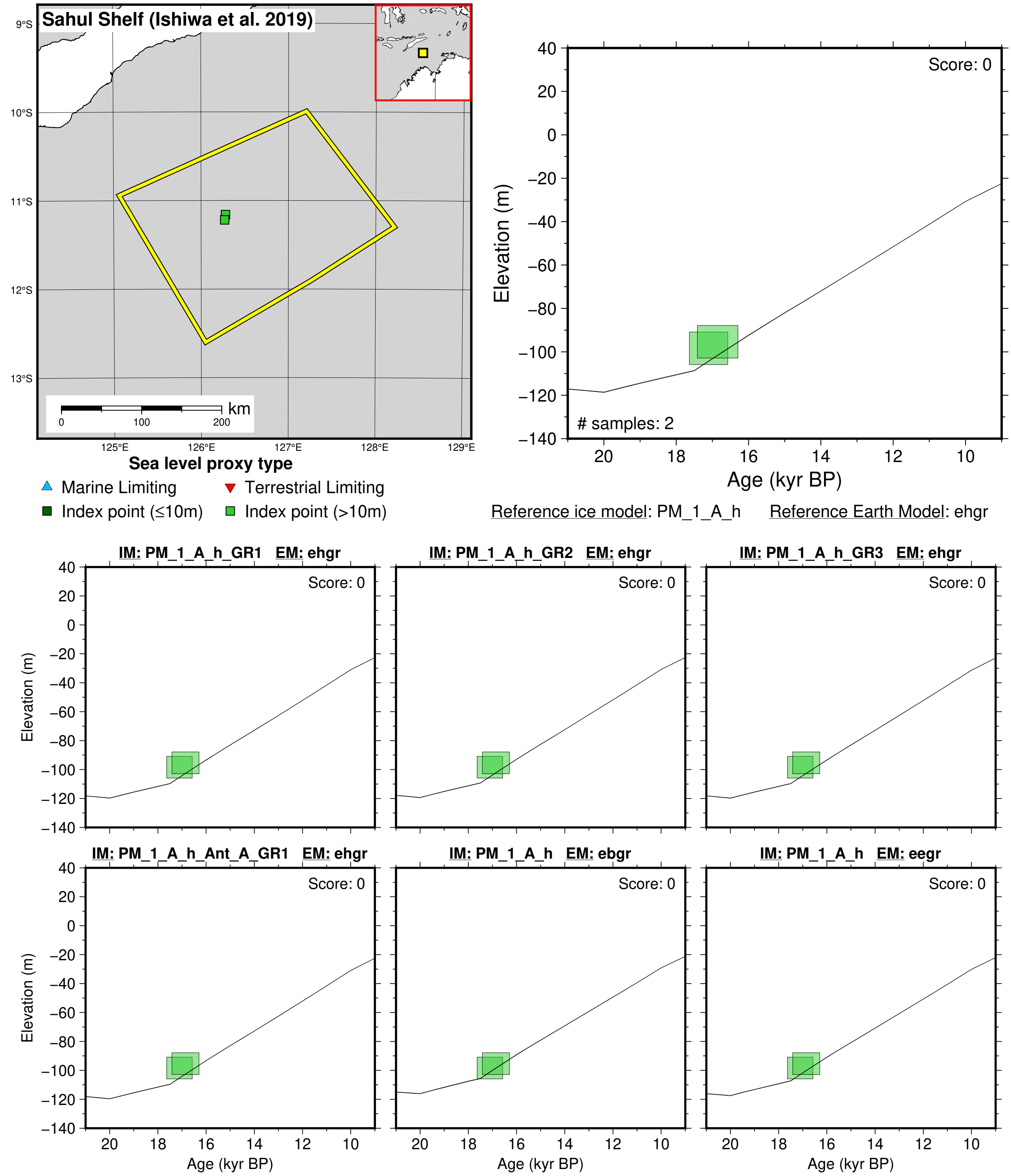

Figure 26: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: Sahul Shelf (Ishiwa *et al.* 2019 interpretation). References: Yokoyama et al. (2000).

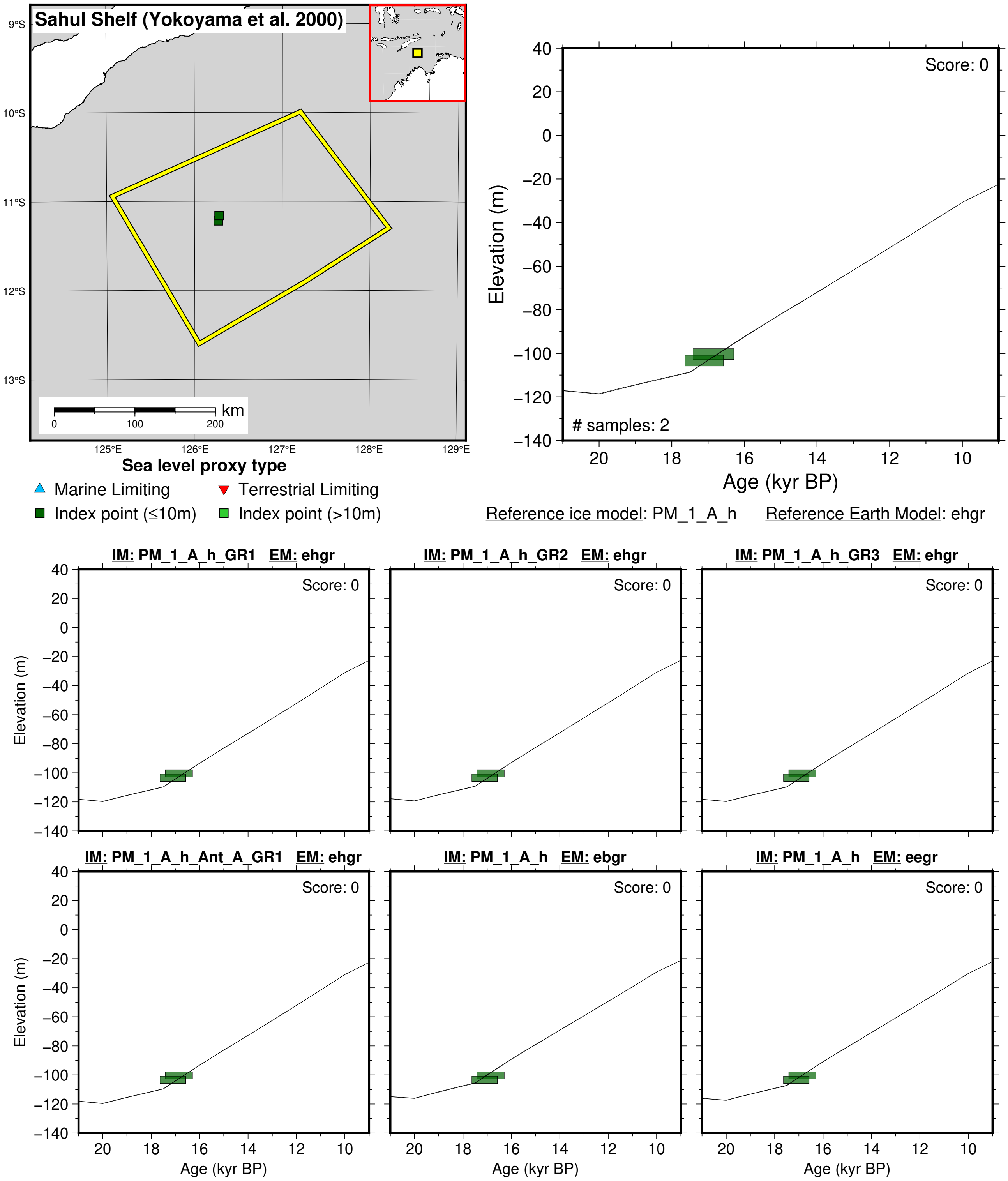

Figure 27: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: Sahul Shelf (Yokoyama *et al.* 2000 interpretation). References: Yokoyama et al. (2000).

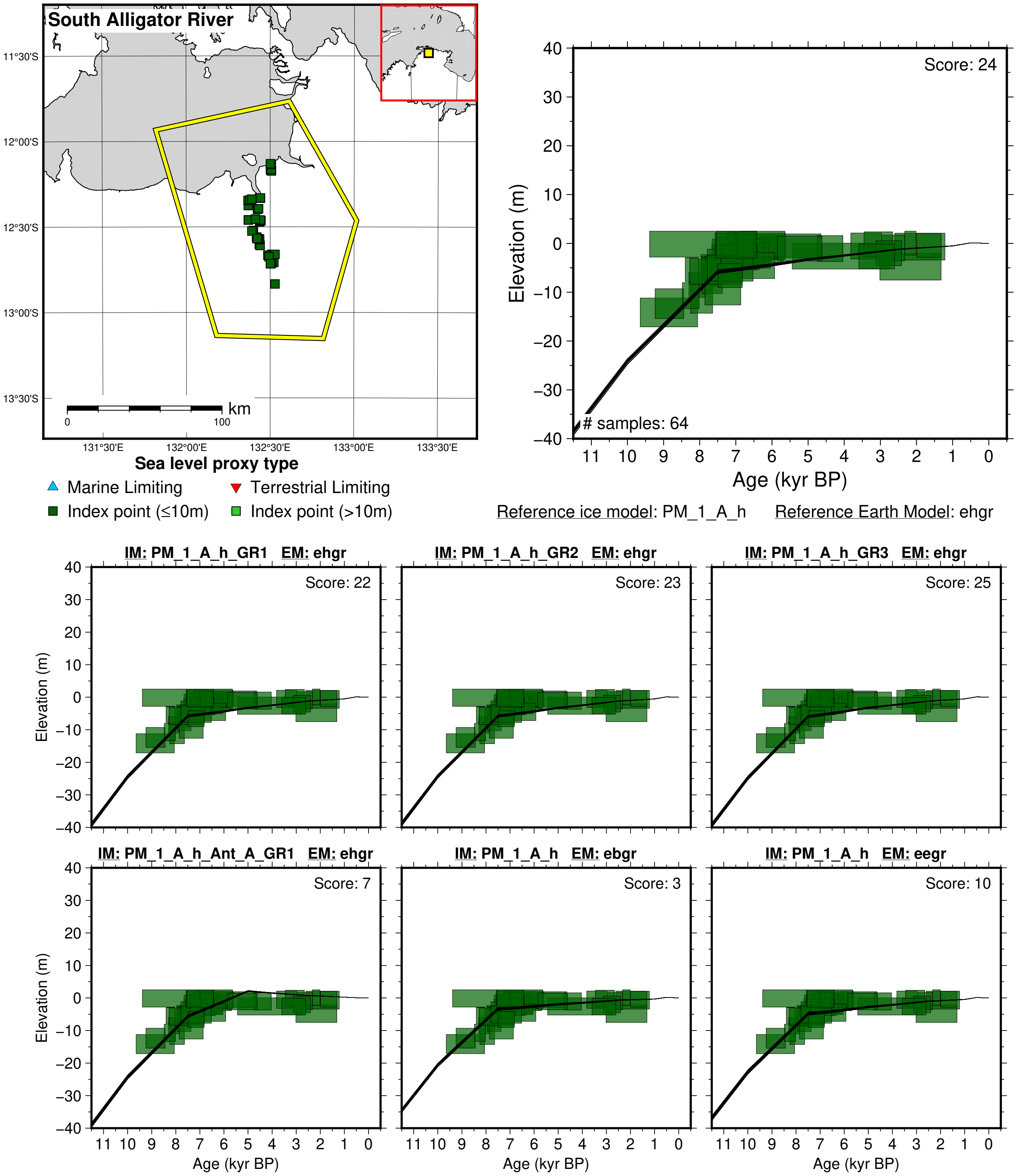

Figure 28: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: South Alligator River. References: Lewis et al. (2013); Woodroffe et al. (1986, 1985, 1987).

6.2.3 Queensland

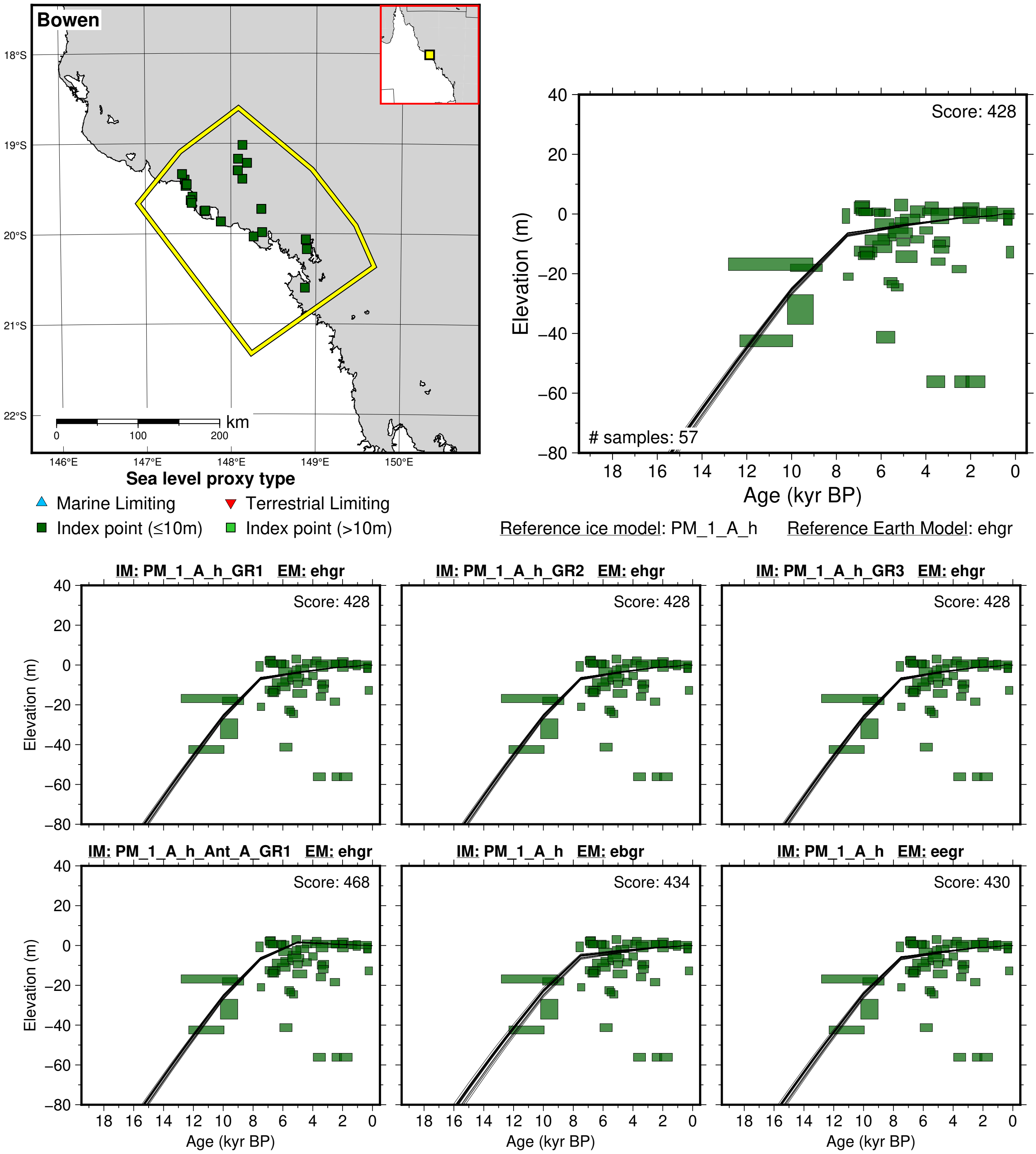

Figure 29: Paleo-sea level and comparison of six models for subregion: Queensland, location: Bowen. References: Belperio (1978, 1979); Blake (1994); Chappell et al. (1983); Harris et al. (1990); Heap et al. (2002); Hopley (1980, 1983); Hopley et al. (1978, 1983); Larcombe et al. (1995); Lewis et al. (2013); Thom et al. (1969); Way (1987).

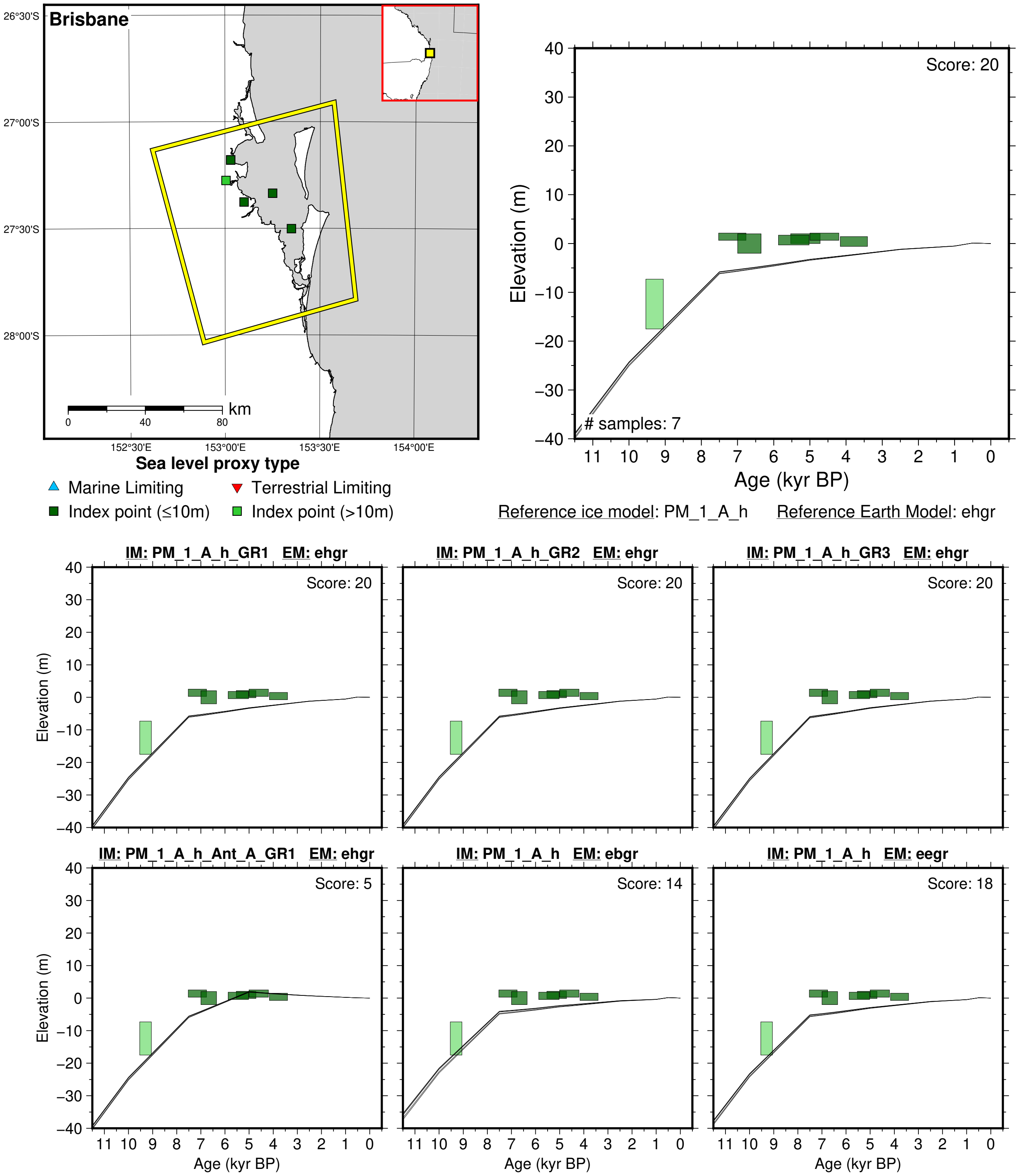

Figure 30: Paleo-sea level and comparison of six models for subregion: Queensland, location: Brisbane. References: Flood (1983); Hekel et al. (1979); Hofmann (1980); Jones et al. (1978); Lewis et al. (2013).

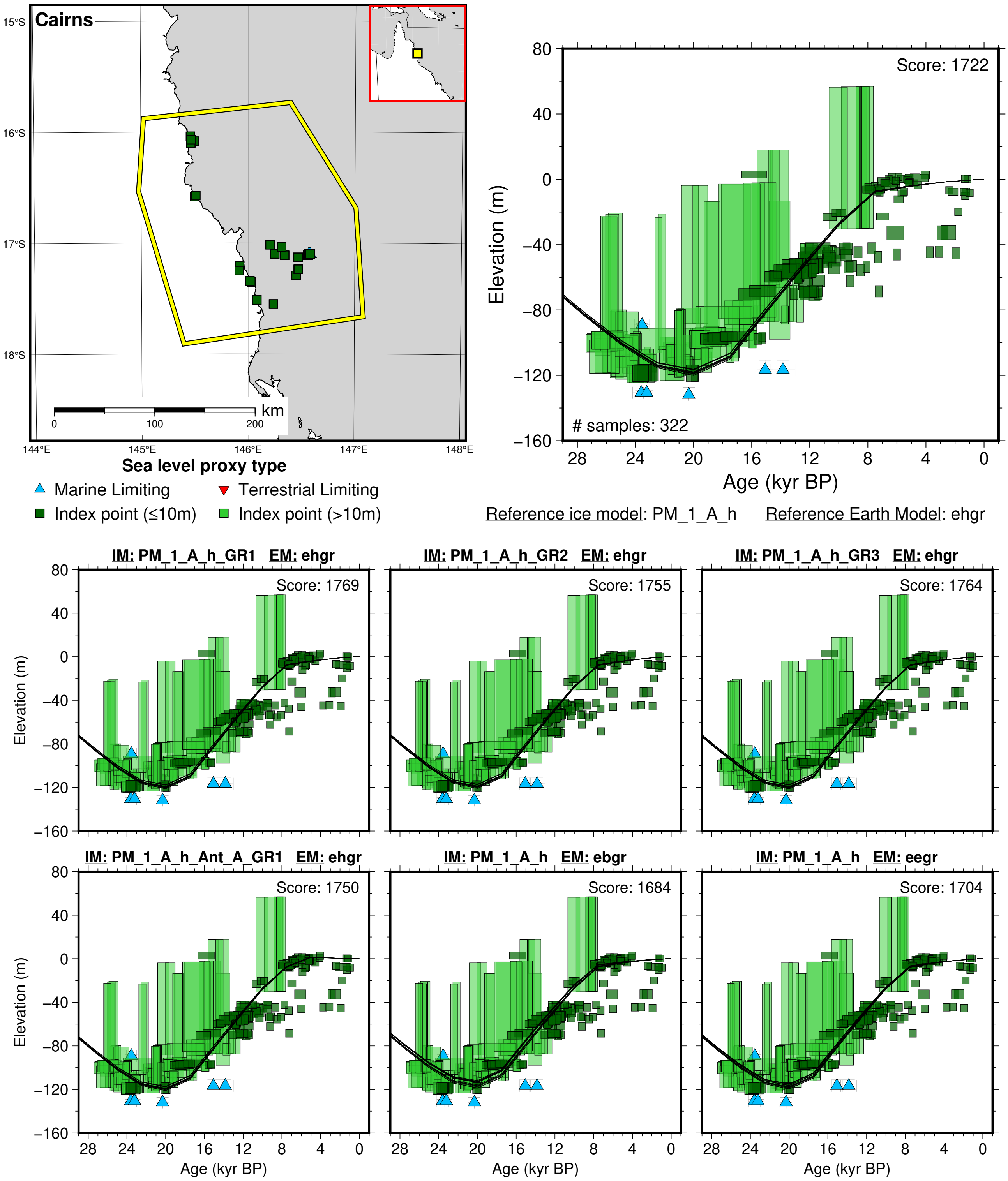

Figure 31: Paleo-sea level and comparison of six models for subregion: Queensland, location: Cairns. References: Bird (1971); Chappell et al. (1983); Crowley et al. (1990); Gagan (1990); Gagan et al. (1994); Grant-Taylor and Rafter (1963); Johnson and Carter (1987); Larcombe et al. (1995); Lewis et al. (2013); Partain and Hopley (1989); Yokoyama et al. (2018); Zwartz (1995).

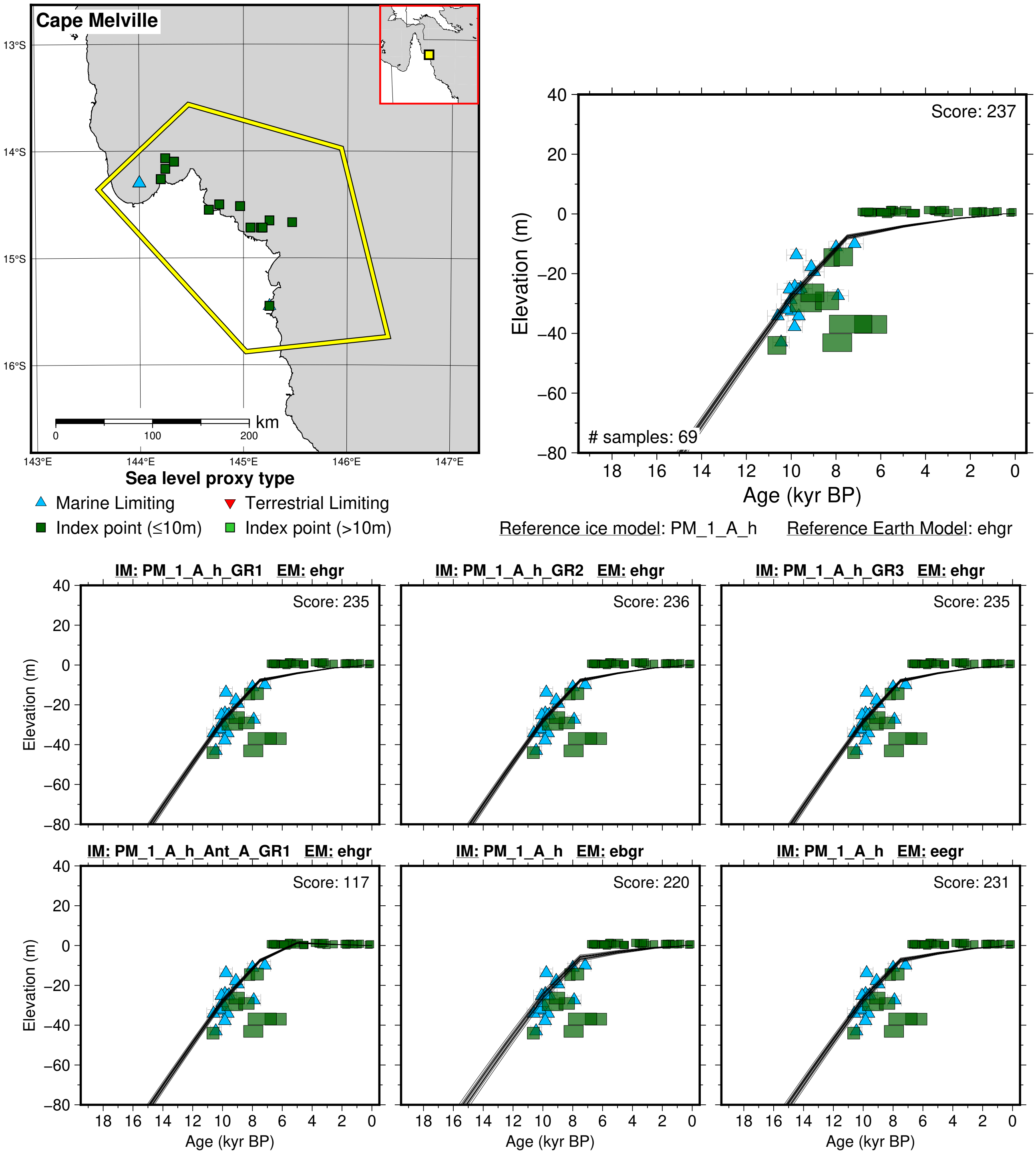

Figure 32: Paleo-sea level and comparison of six models for subregion: Queensland, location: Cape Melville. References: Chappell et al. (1983); Higley (2000); Lewis et al. (2013); Salama (1991); Zwartz (1995).

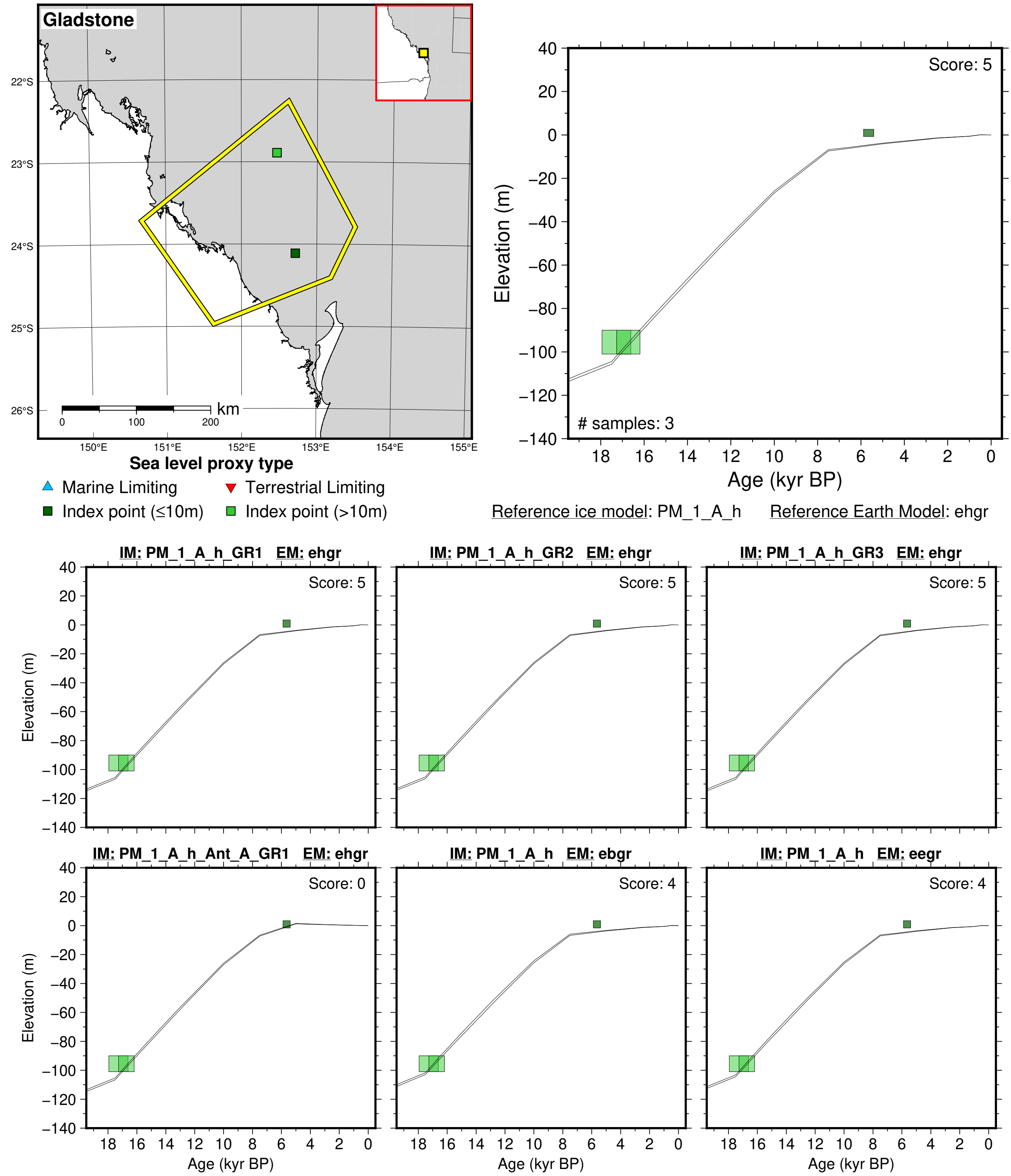

Figure 33: Paleo-sea level and comparison of six models for subregion: Queensland, location: Gladstone. References: Flood (1983); Lewis et al. (2013); Yokoyama et al. (2006).

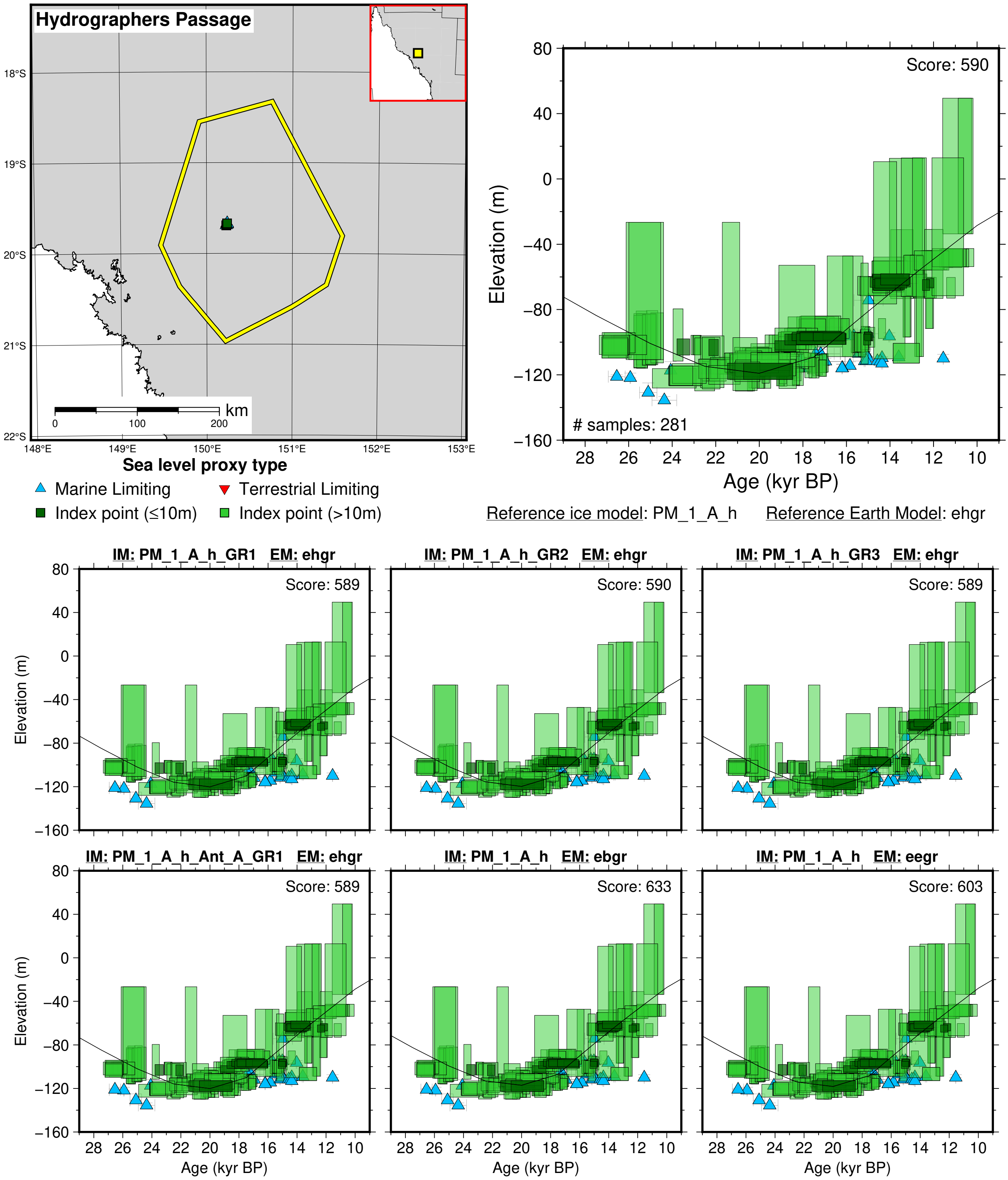

Figure 34: Paleo-sea level and comparison of six models for subregion: Queensland, location: Hydrographers Passage. References: Yokoyama et al. (2018).

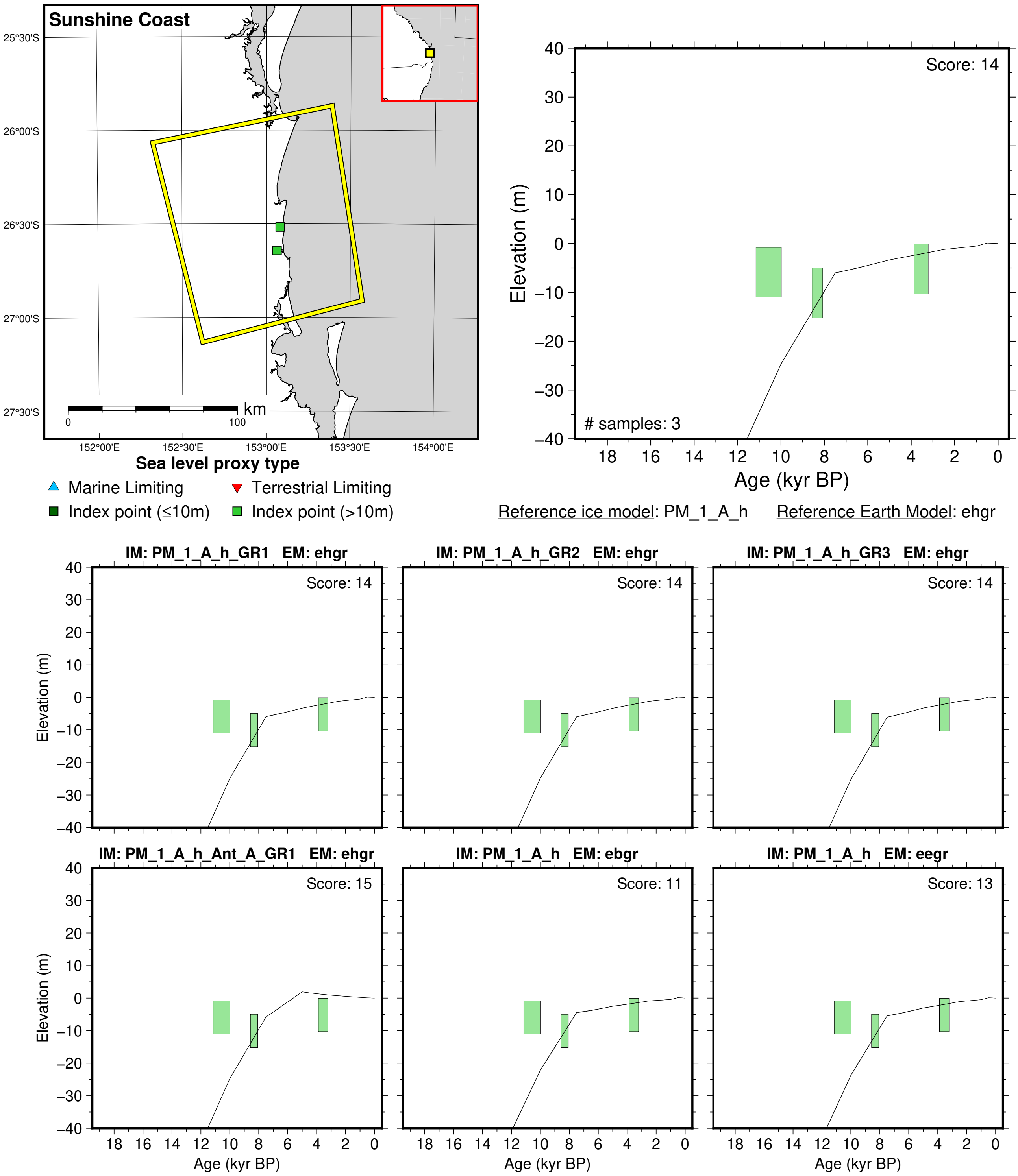

Figure 35: Paleo-sea level and comparison of six models for subregion: Queensland, location: Sunshine Coast. References: Lewis et al. (2013); Thom et al. (1969); Wood (1972).

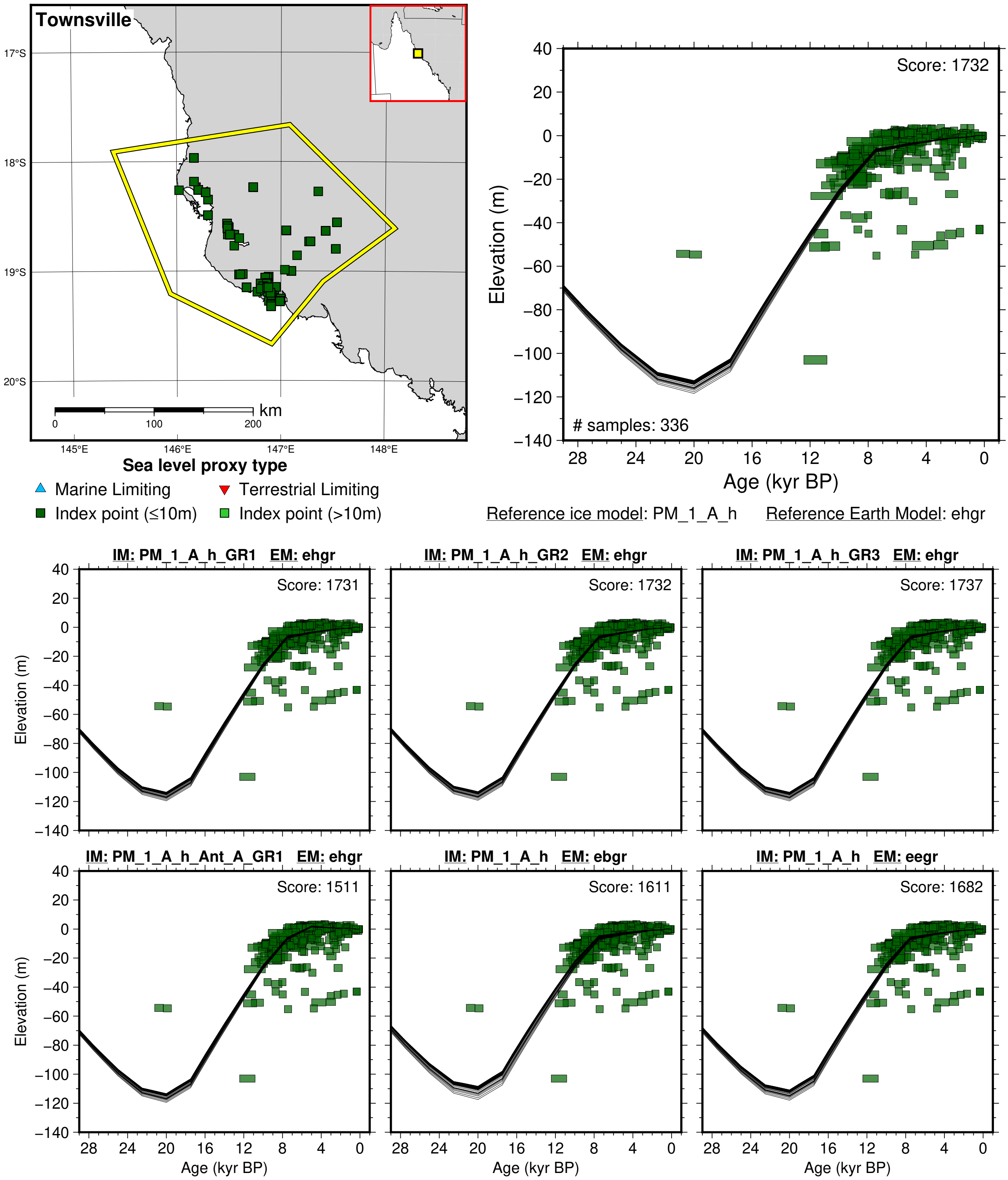

Figure 36: Paleo-sea level and comparison of six models for subregion: Queensland, location: Townsville. References: Beaman et al. (1994); Belperio (1978, 1979); Carter et al. (1993); Chappell et al. (1983); Gill and Hopley (1972); Grindrod and Rhodes (1984); Harris et al. (1990); Higley (2000); Hopley (1980, 1983); Hopley et al. (1983); Johnson et al. (1984); Johnson and Risk (1987); Larcombe and Carter (1998); Larcombe et al. (1995); Lewis et al. (2008, 2013, 2015); Ohlenbusch (1991); Pye and Rhodes (1985); Spenceley (1980); Tye (1992); Walbran (1991); Woodroffe (2009); Yu and Zhao (2010); Zwartz (1995).

6.2.4 South Australia

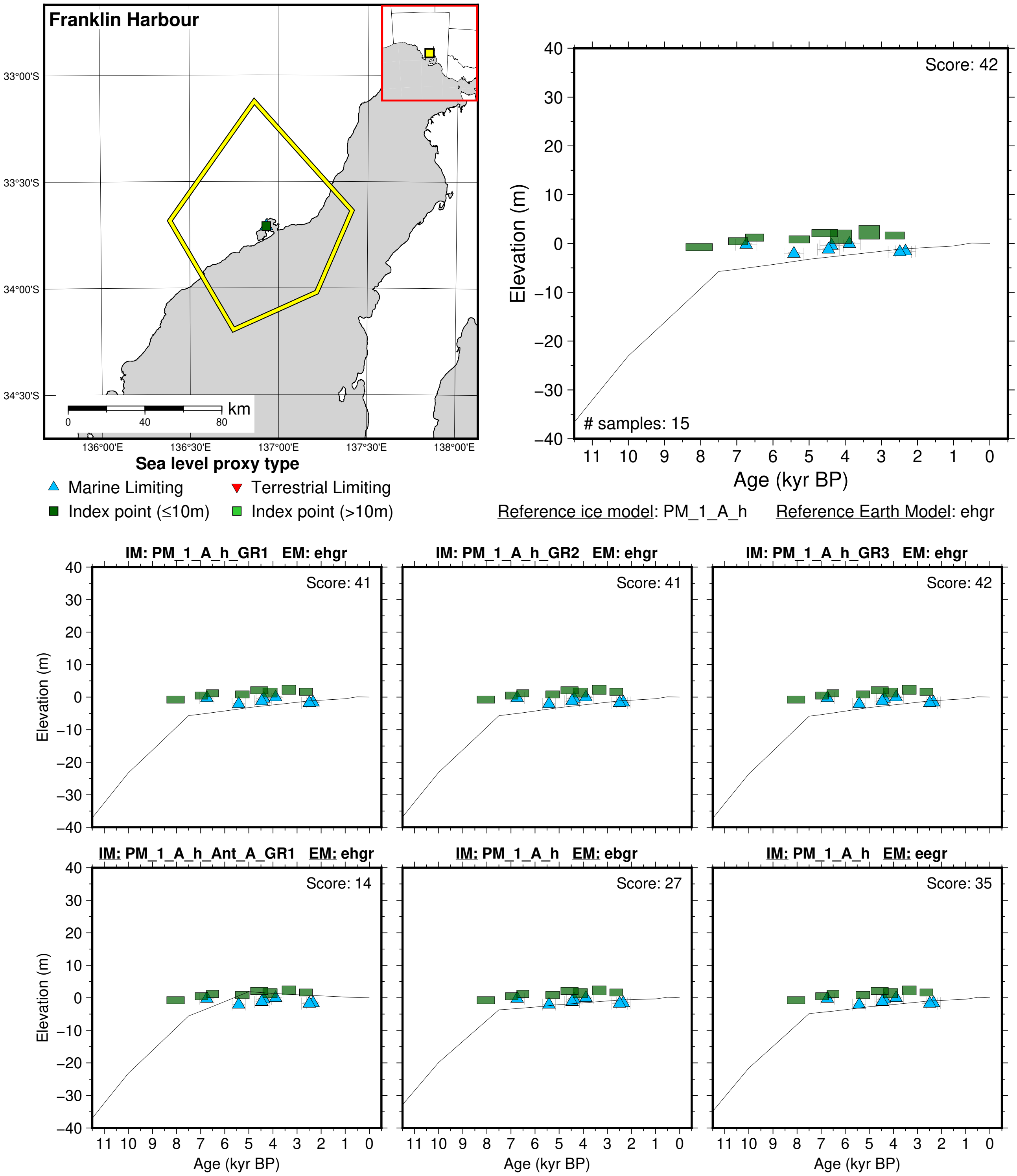

Figure 37: Paleo-sea level and comparison of six models for subregion: South Australia, location: Franklin Harbour. References: Belperio et al. (2002); Lewis et al. (2013); Short et al. (1986).

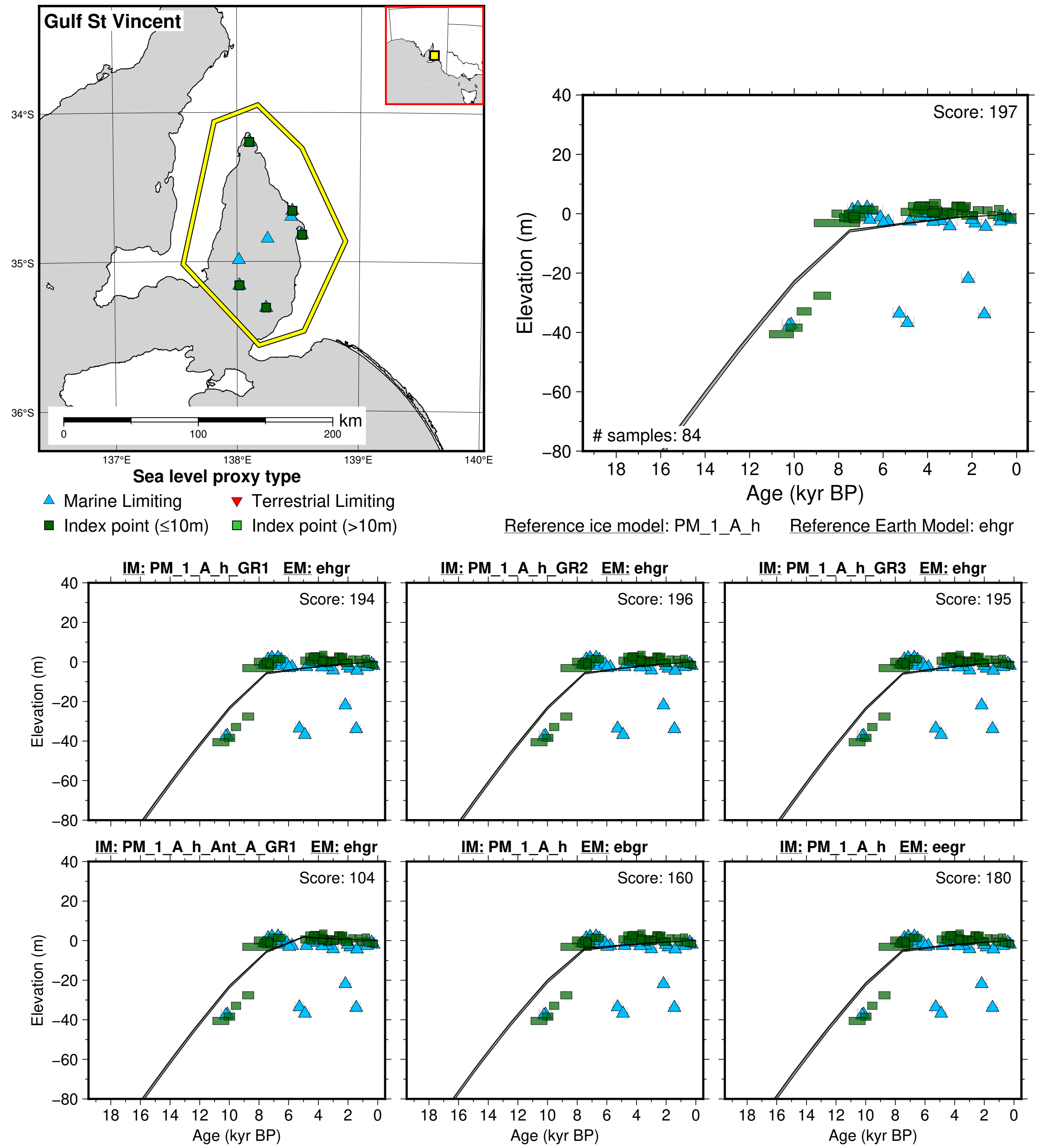

Figure 38: Paleo-sea level and comparison of six models for subregion: South Australia, location: Gulf St Vincent. References: Belperio (1993); Belperio et al. (1983, 2002); Cann et al. (1988, 1993); Lewis et al. (2013); Murray-Wallace et al. (1993).

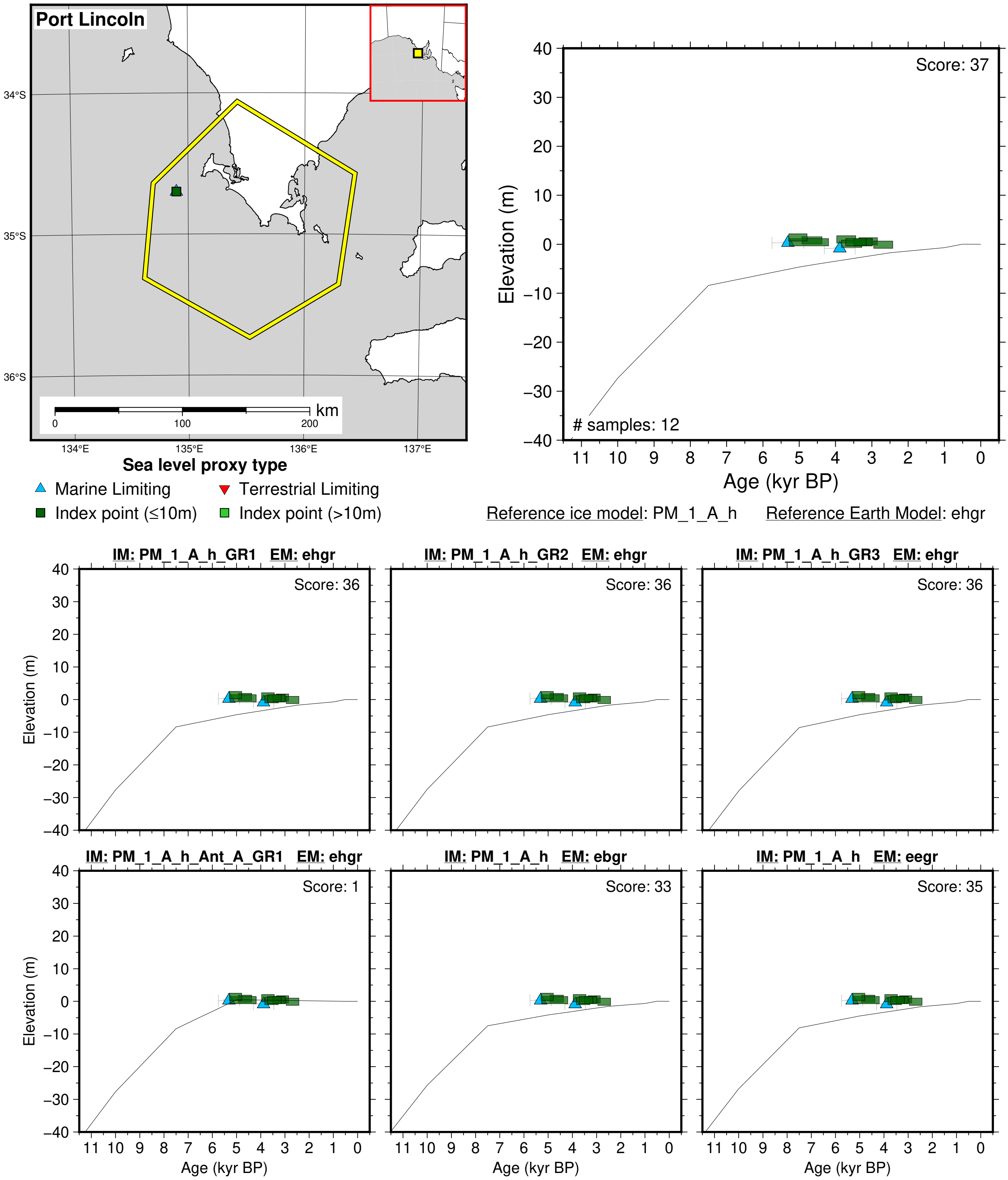

Figure 39: Paleo-sea level and comparison of six models for subregion: South Australia, location: Port Lincoln. References: Belperio et al. (2002); Lewis et al. (2013); Short et al. (1986).

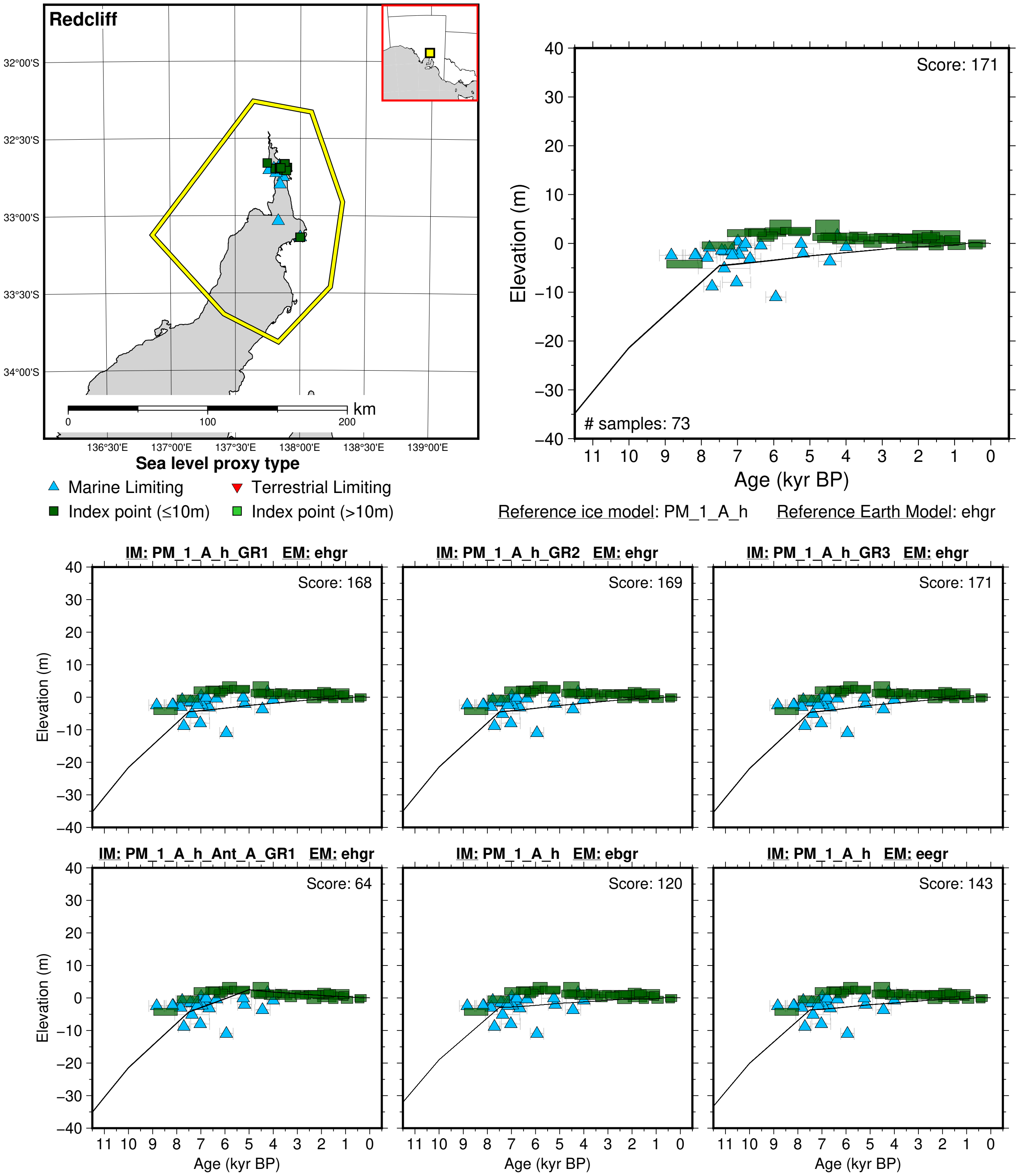

Figure 40: Paleo-sea level and comparison of six models for subregion: South Australia, location: Redcliff. References: Belperio et al. (1984, 2002); Harvey et al. (1999); Lewis et al. (2013).

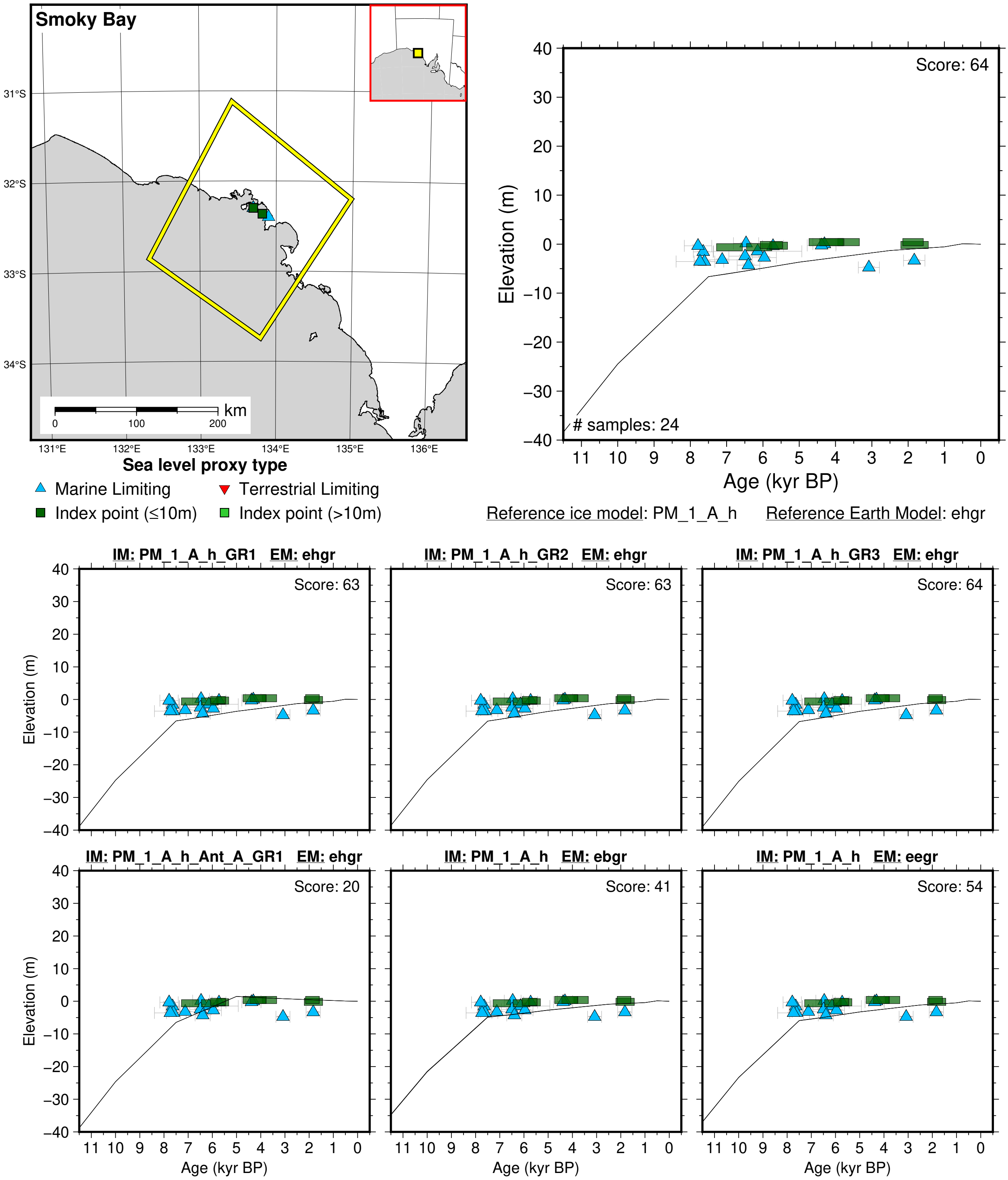

Figure 41: Paleo-sea level and comparison of six models for subregion: South Australia, location: Smoky Bay. References: Belperio et al. (2002); Lewis et al. (2013); Murray-Wallace et al. (1993); Short et al. (1986).

6.2.5 Tasmania

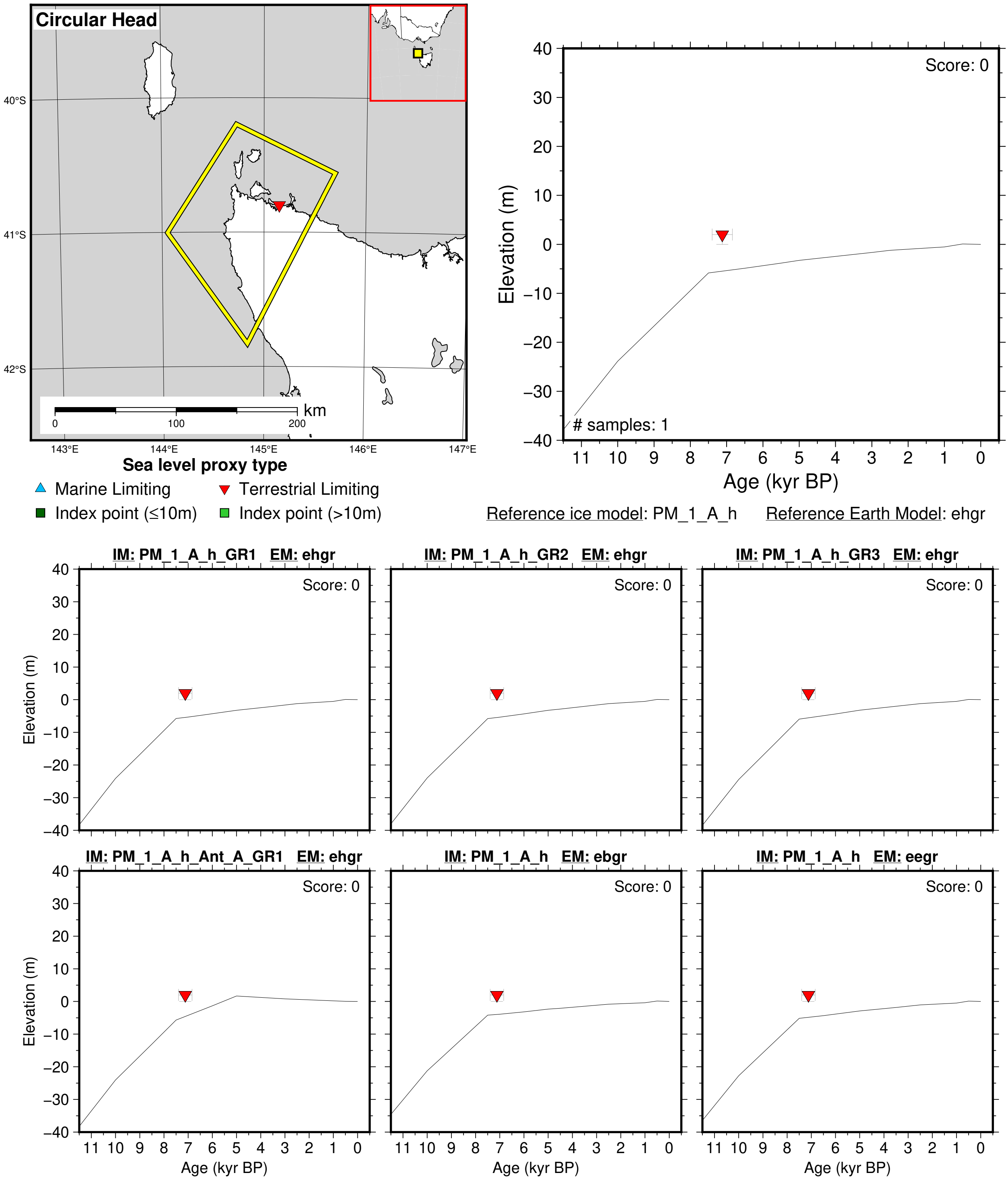

Figure 42: Paleo-sea level and comparison of six models for subregion: Tasmania, location: Circular Head. References: Morrison (2019); Murray-Wallace and Goede (1995).

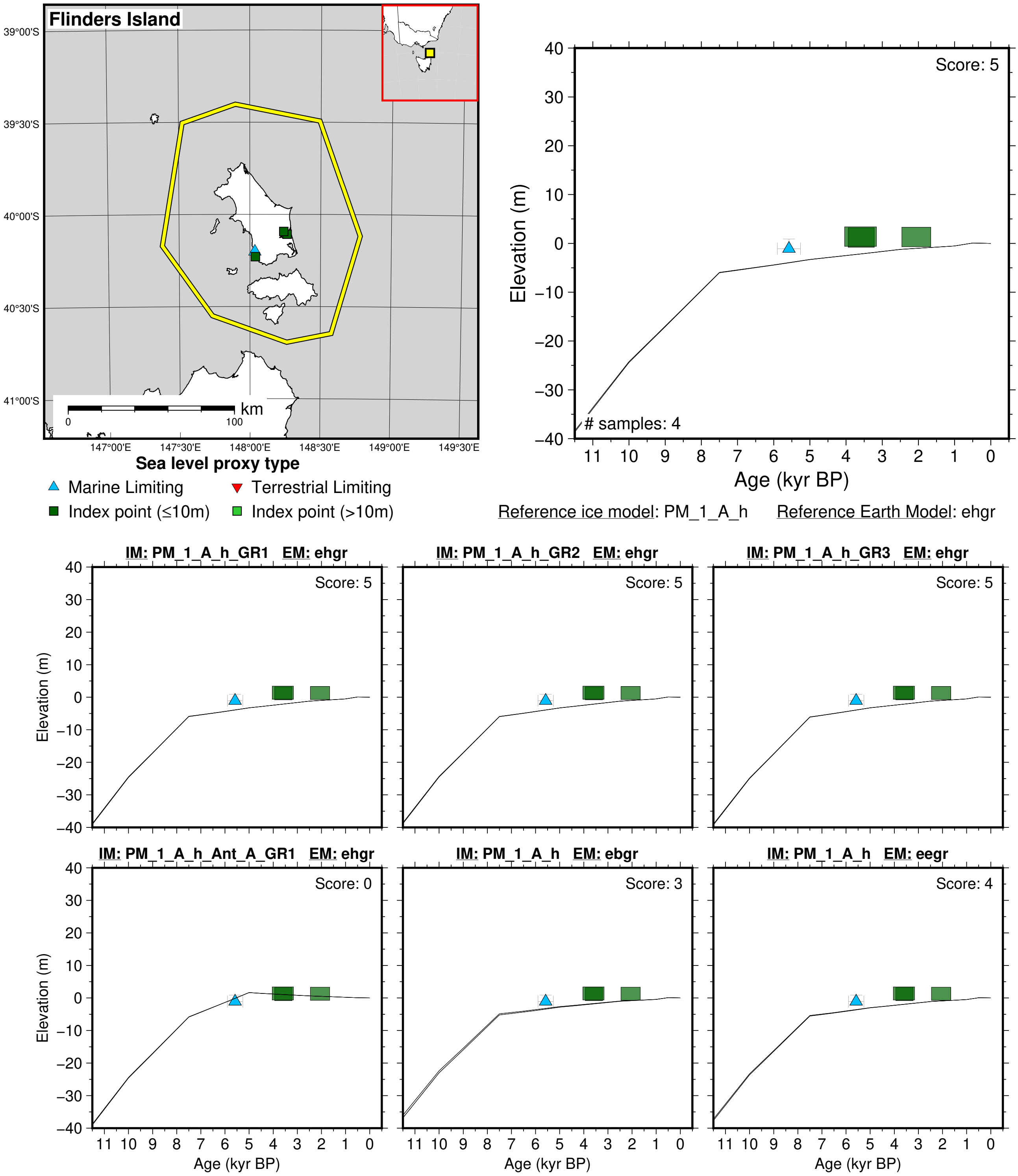

Figure 43: Paleo-sea level and comparison of six models for subregion: Tasmania, location: Flinders Island. References: Morrison (2019); Murray-Wallace and Goede (1995).

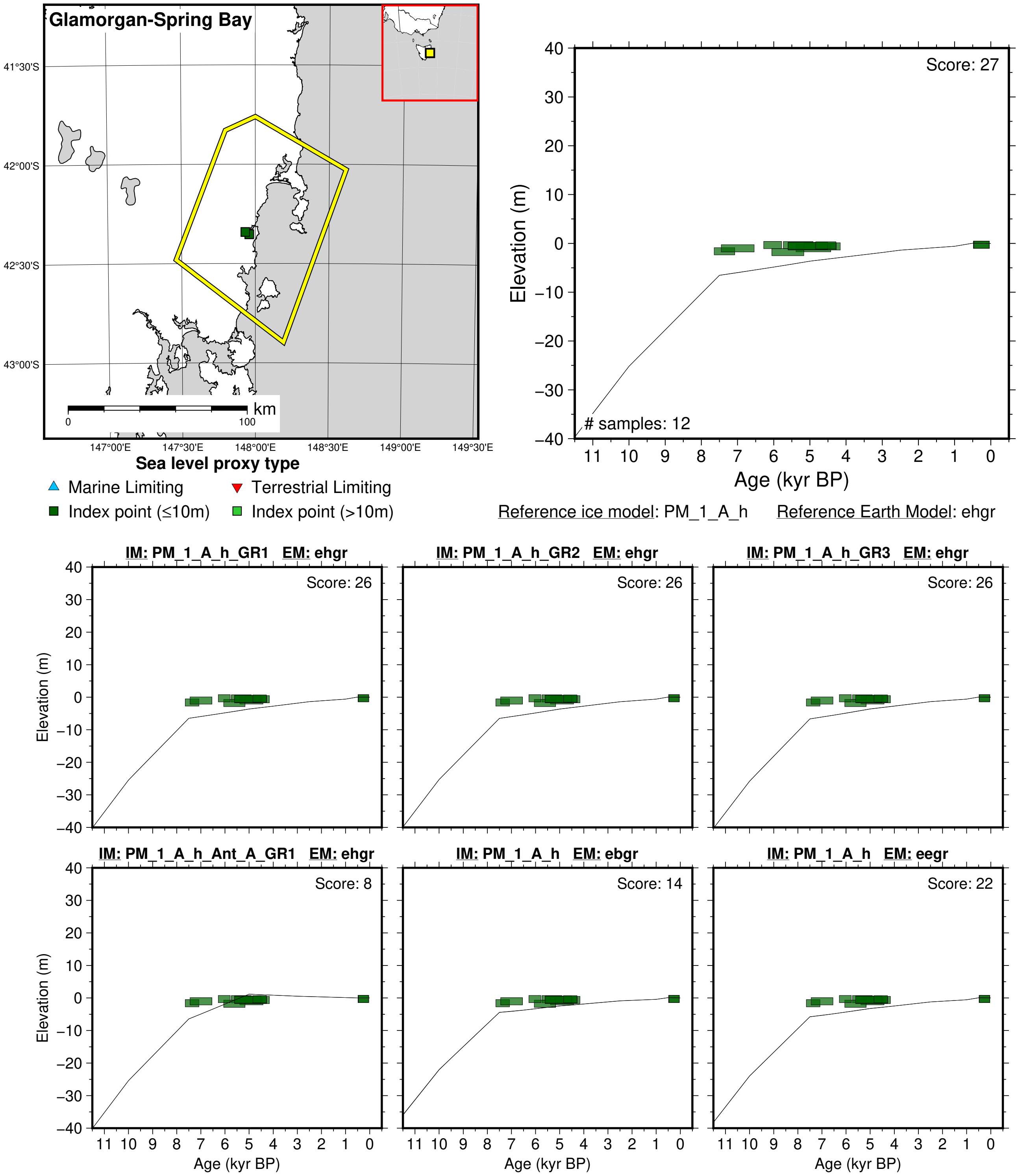

Figure 44: Paleo-sea level and comparison of six models for subregion: Tasmania, location: Glamorgan-Spring Bay. References: Gehrels et al. (2012); Morrison (2019).

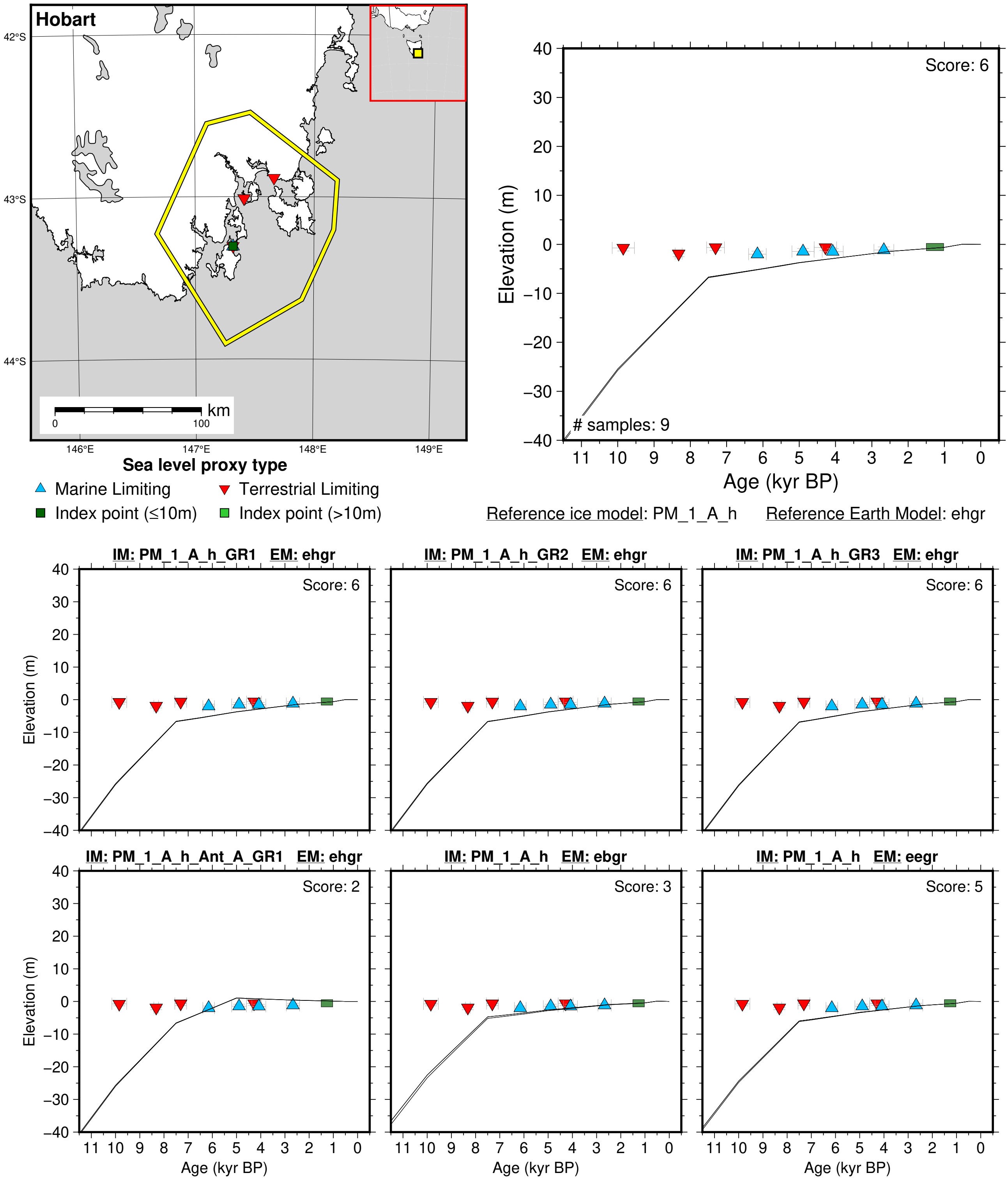

Figure 45: Paleo-sea level and comparison of six models for subregion: Tasmania, location: Hobart. References: Clark et al. (2011); Morrison (2019).

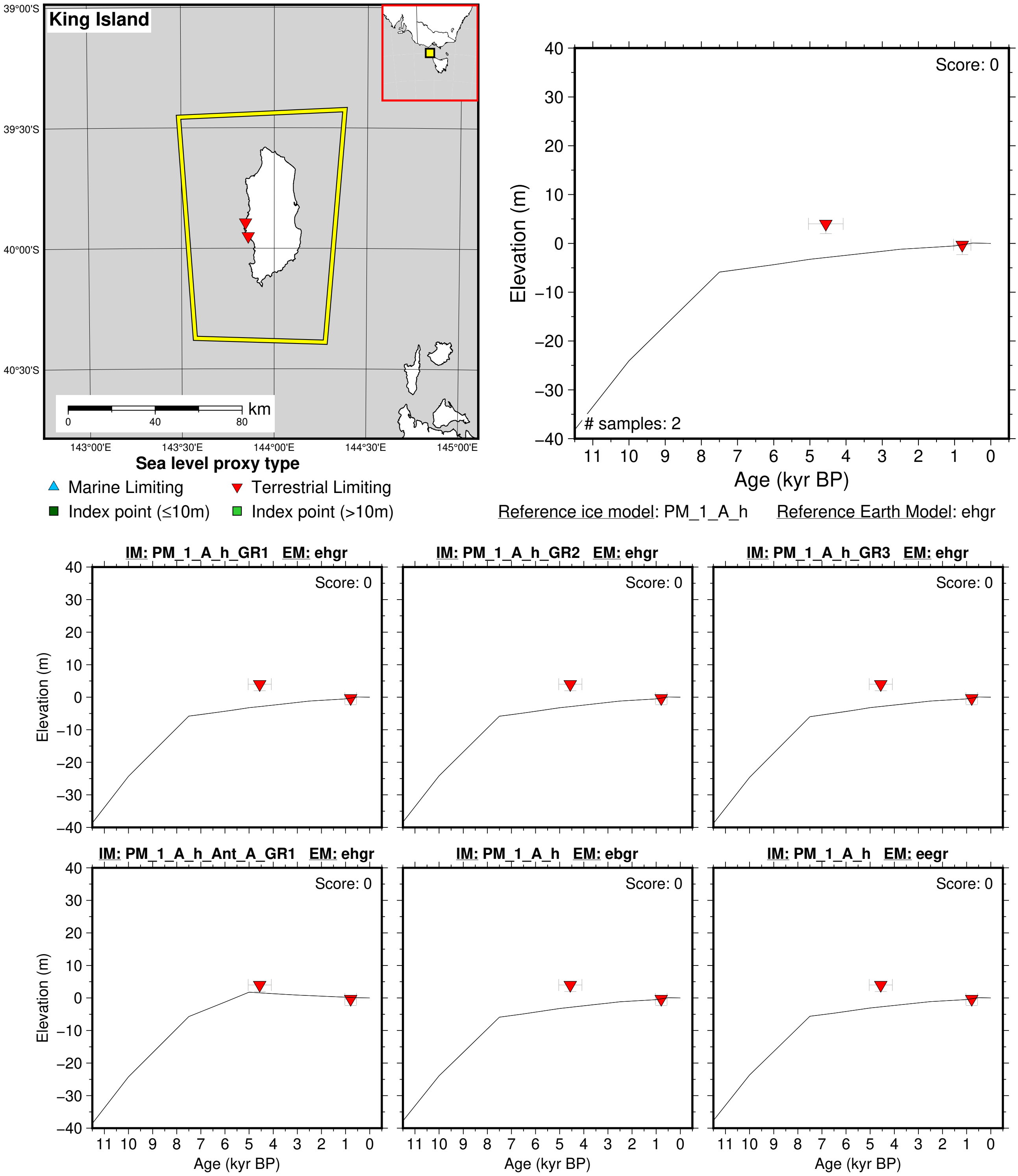

Figure 46: Paleo-sea level and comparison of six models for subregion: Tasmania, location: King Island. References: Morrison (2019); Murray-Wallace and Goede (1995).

6.2.6 Western Australia

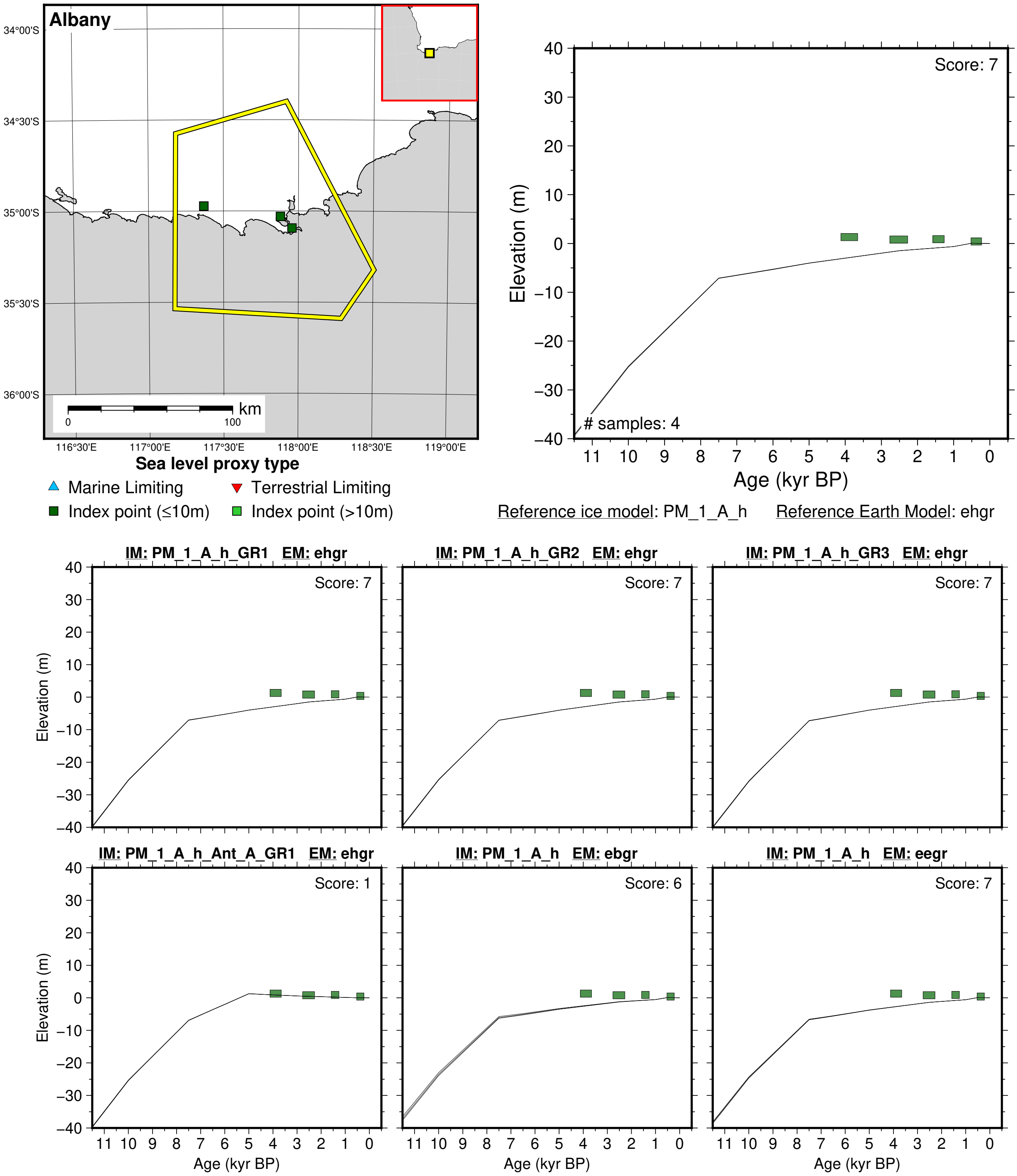

Figure 47: Paleo-sea level and comparison of six models for subregion: Western Australia, location: Albany. References: Baker et al. (2005); Lewis et al. (2013).

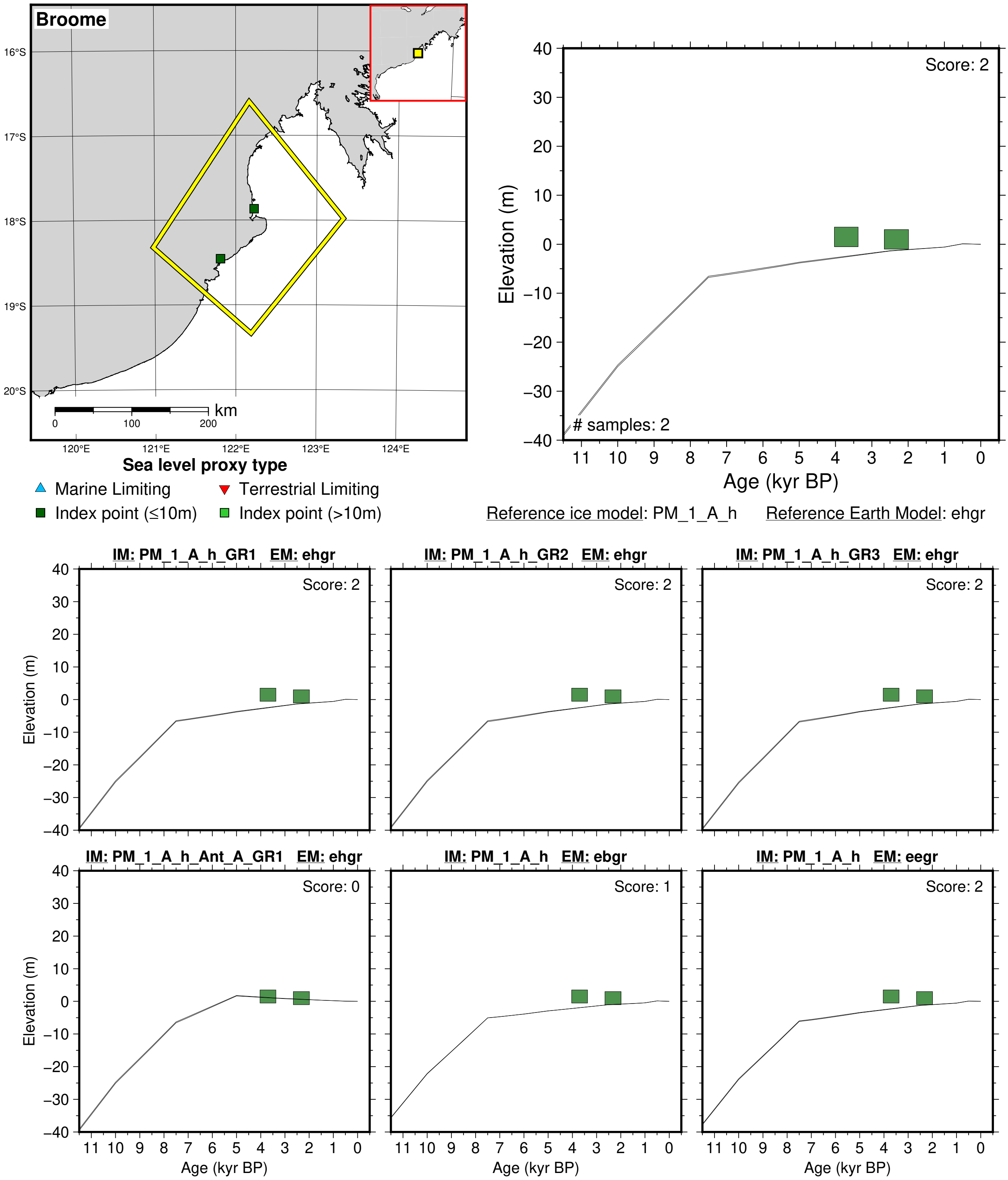

Figure 48: Paleo-sea level and comparison of six models for subregion: Western Australia, location: Broome. References: Hearty et al. (2006); Lessa and Masselink (2006); Lewis et al. (2013).

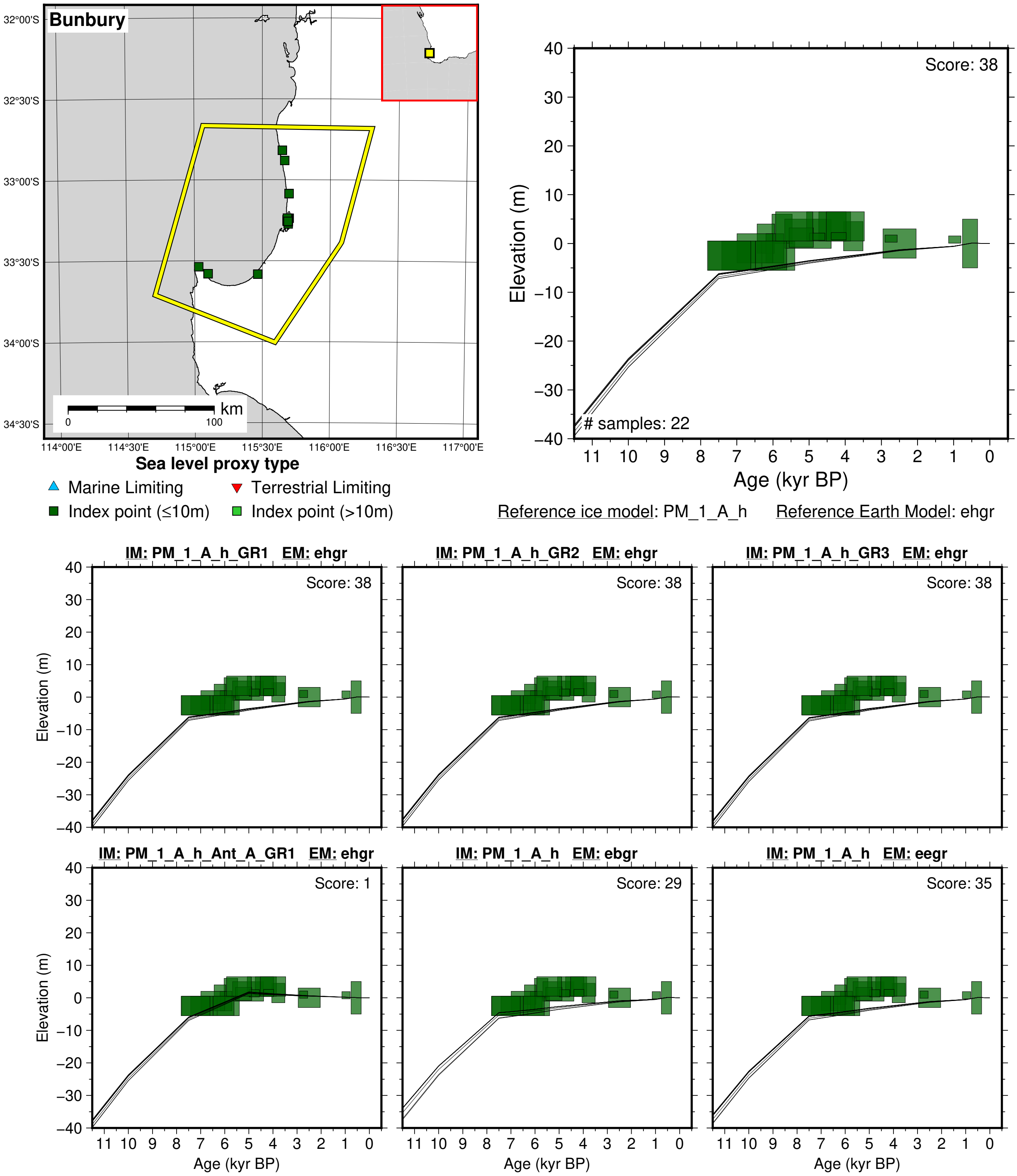

Figure 49: Paleo-sea level and comparison of six models for subregion: Western Australia, location: Bunbury. References: Baker et al. (2005); Buckley and Valdes-Pages (1981); Lewis et al. (2013); Searle and Logan (1978); Semeniuk (1985, 1996).

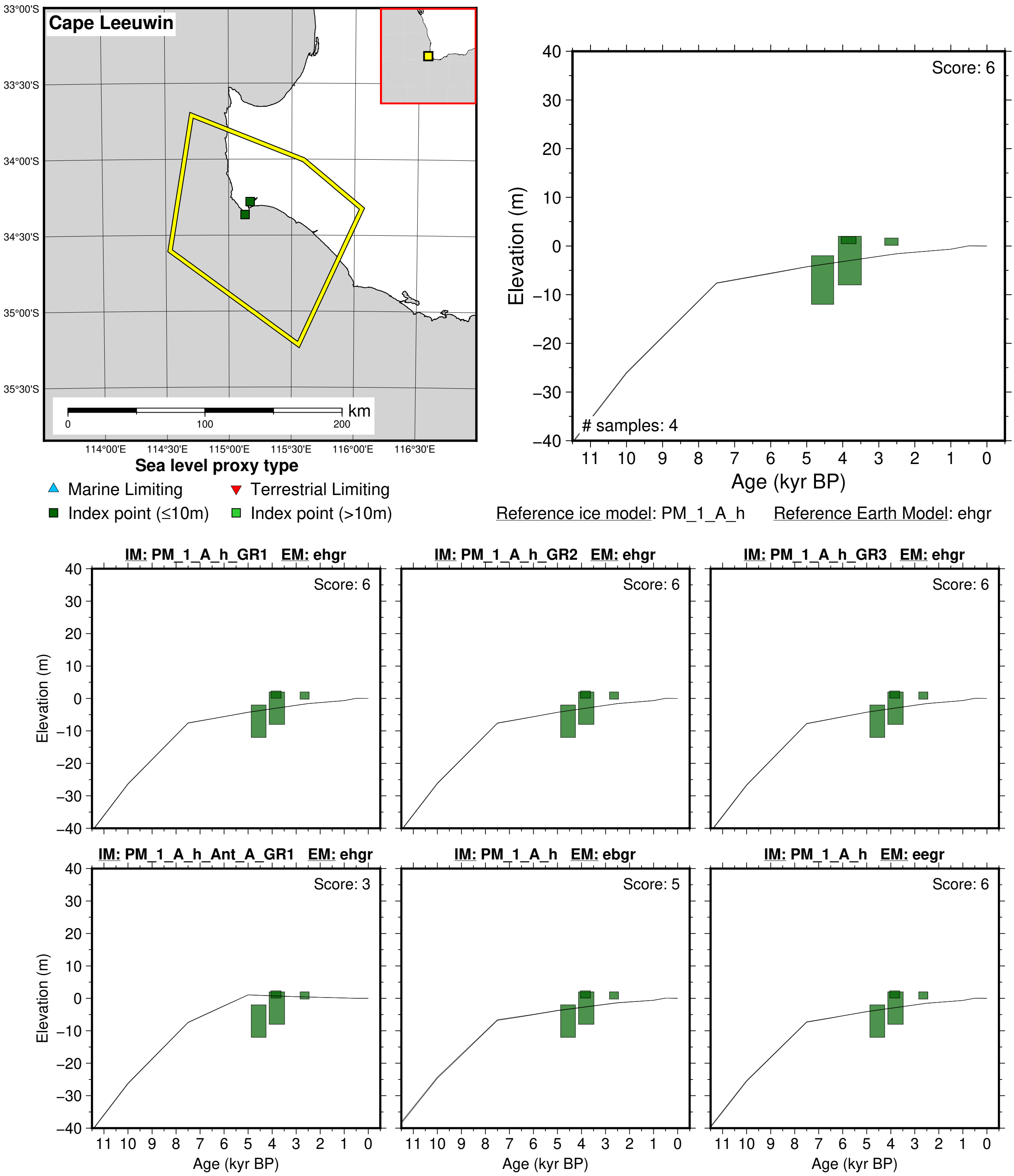

Figure 50: Paleo-sea level and comparison of six models for subregion: Western Australia, location: Cape Leeuwin. References: Baker et al. (2005); Lewis et al. (2013); Sas (1974).

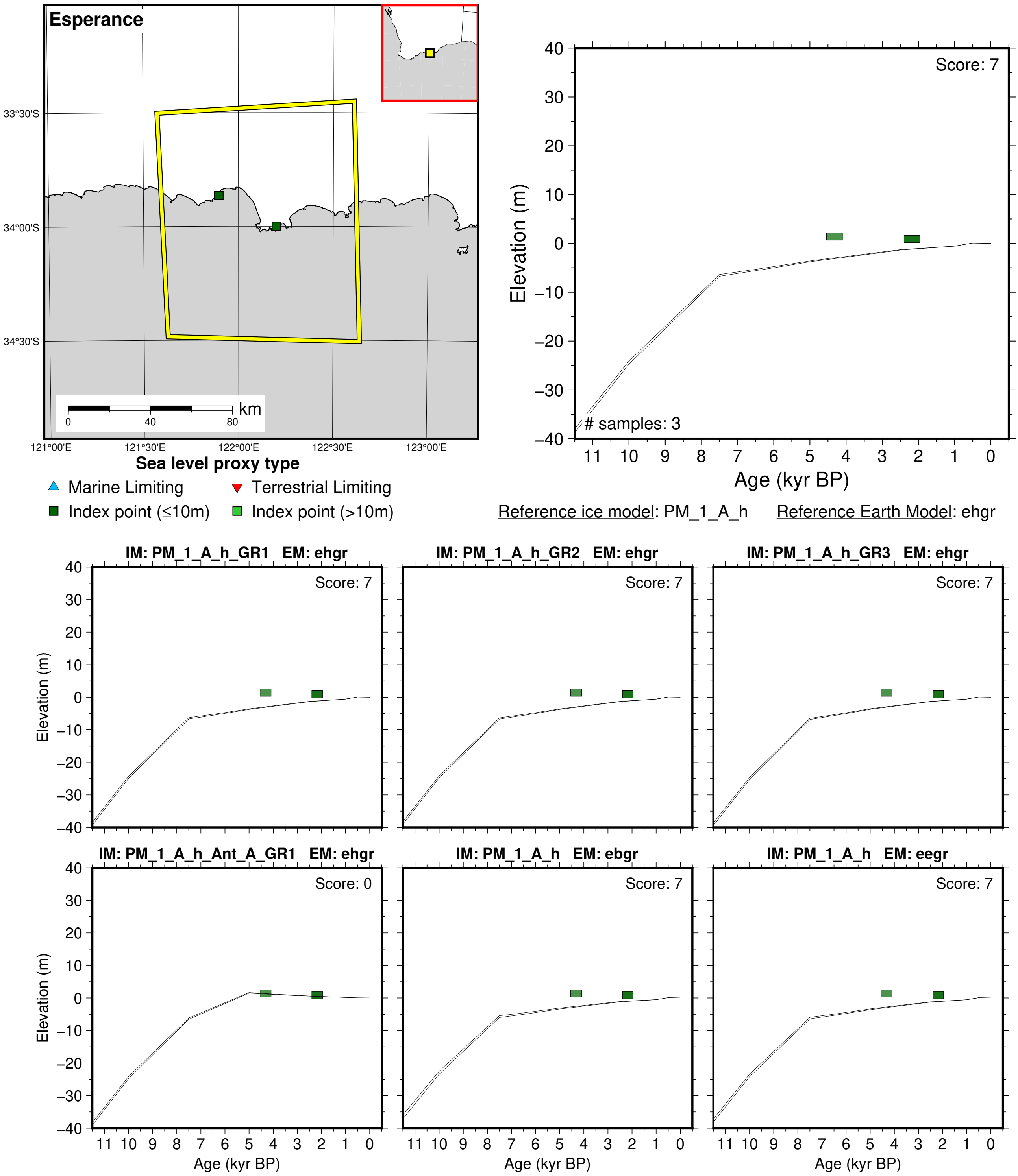

Figure 51: Paleo-sea level and comparison of six models for subregion: Western Australia, location: Esperance. References: Baker et al. (2005); Lewis et al. (2013).

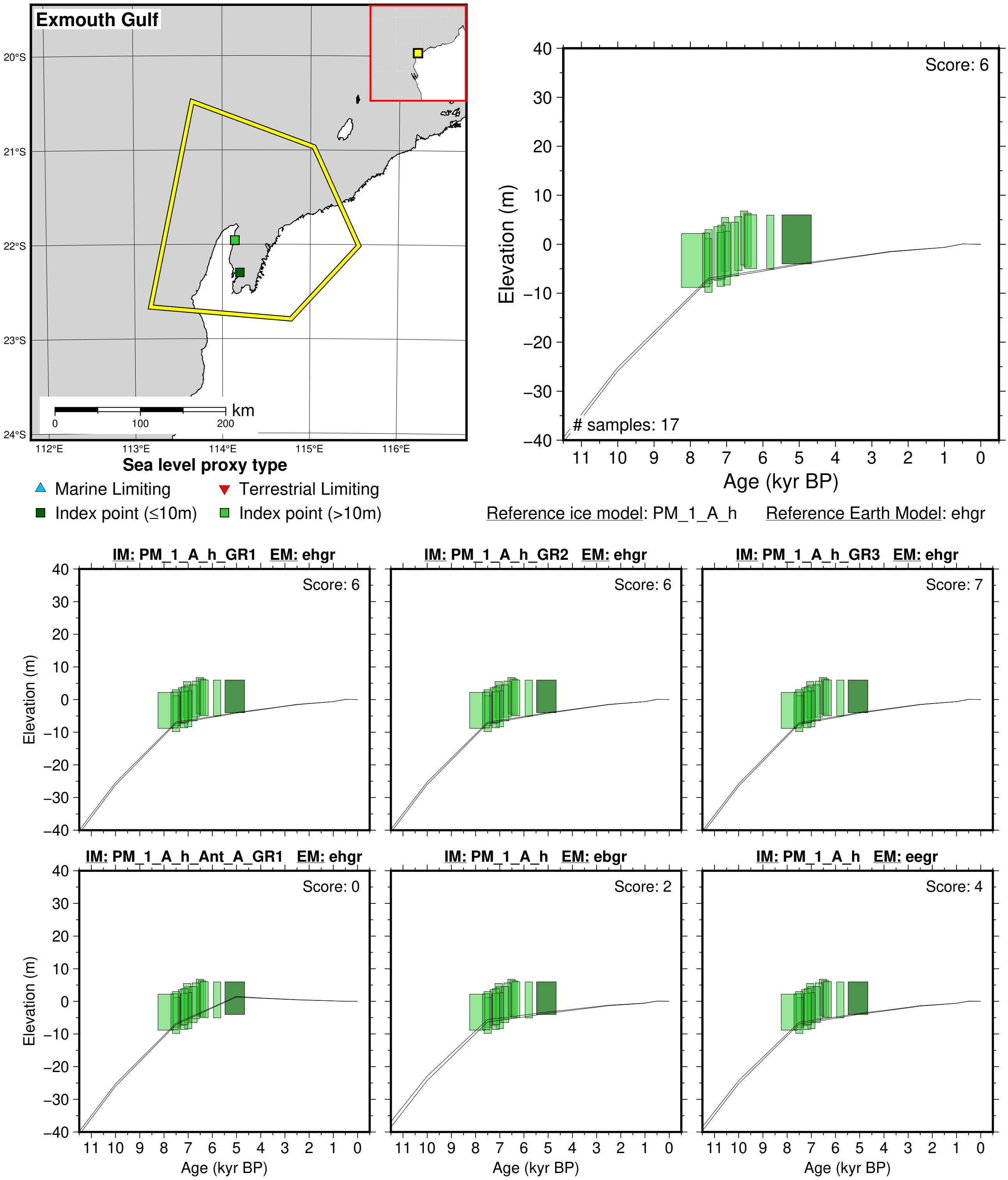

Figure 52: Paleo-sea level and comparison of six models for subregion: Western Australia, location: Exmouth Gulf. References: Lewis et al. (2013); Logan et al. (1970); Twiggs and Collins (2010).

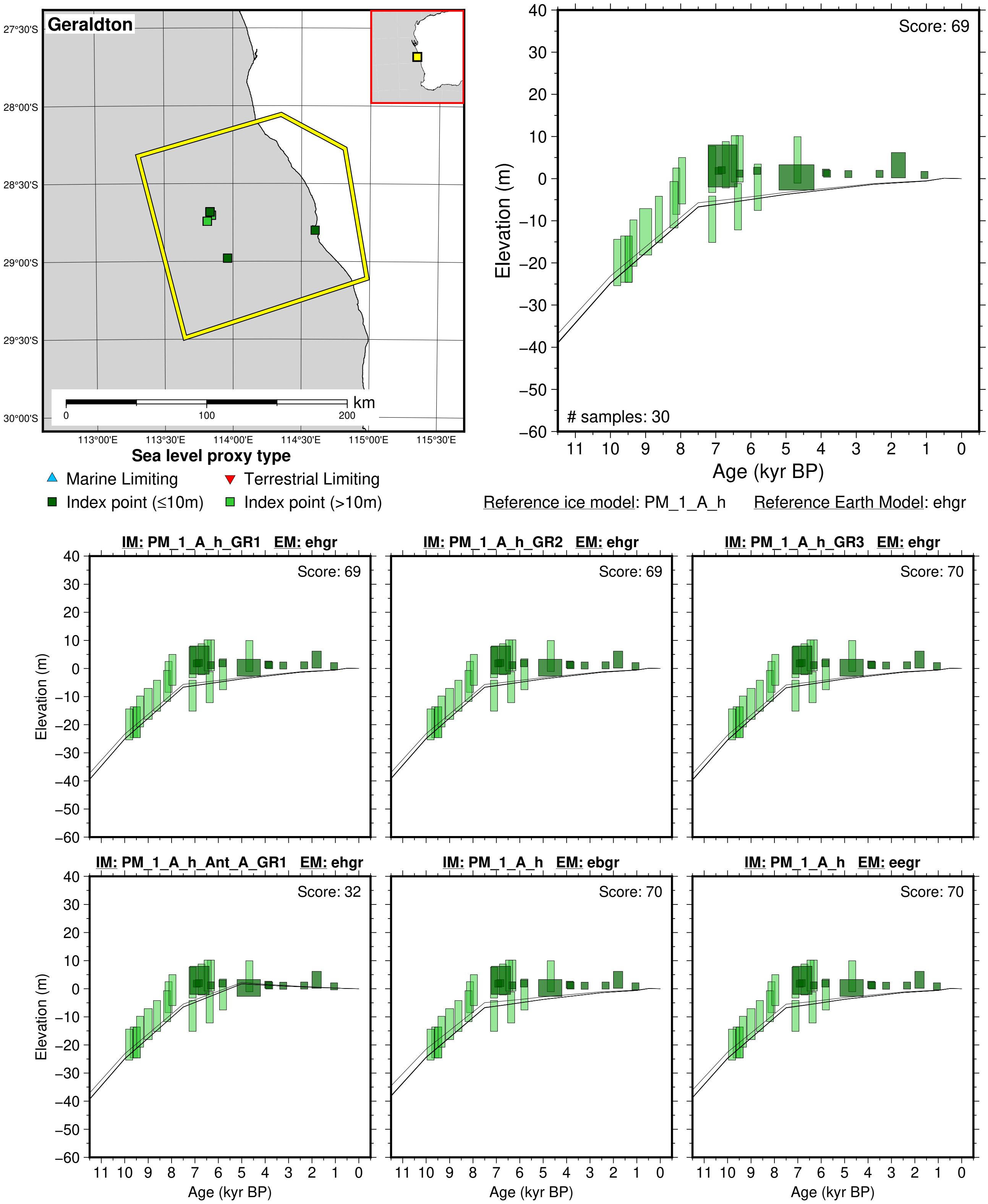

Figure 53: Paleo-sea level and comparison of six models for subregion: Western Australia, location: Geraldton. References: Collins et al. (2006); Eisenhauer et al. (1993); Lewis et al. (2013); Veeh and France (1988); Wyrwoll (1977).

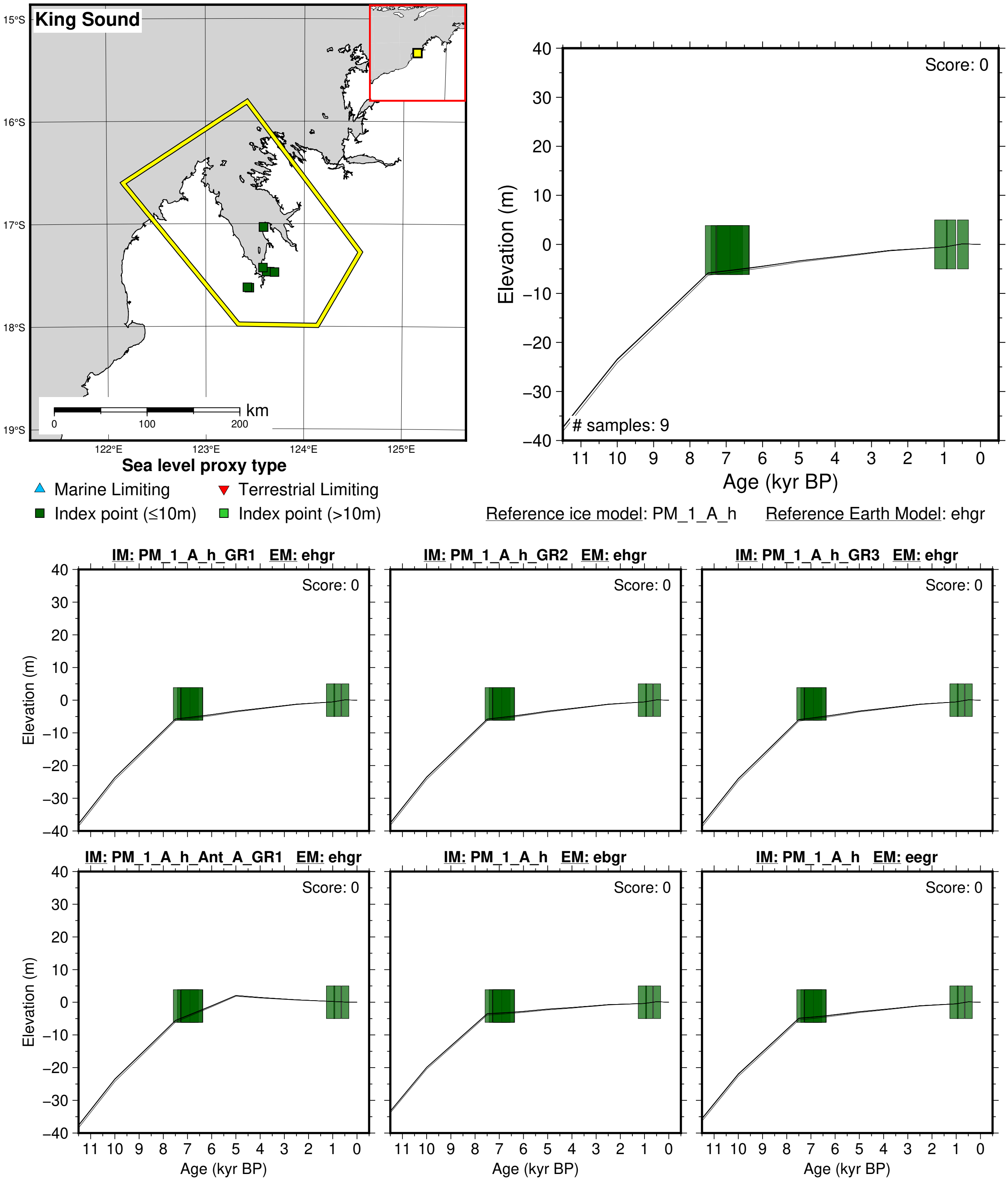

Figure 54: Paleo-sea level and comparison of six models for subregion: Western Australia, location: King Sound. References: Jennings (1975); Lewis et al. (2013).

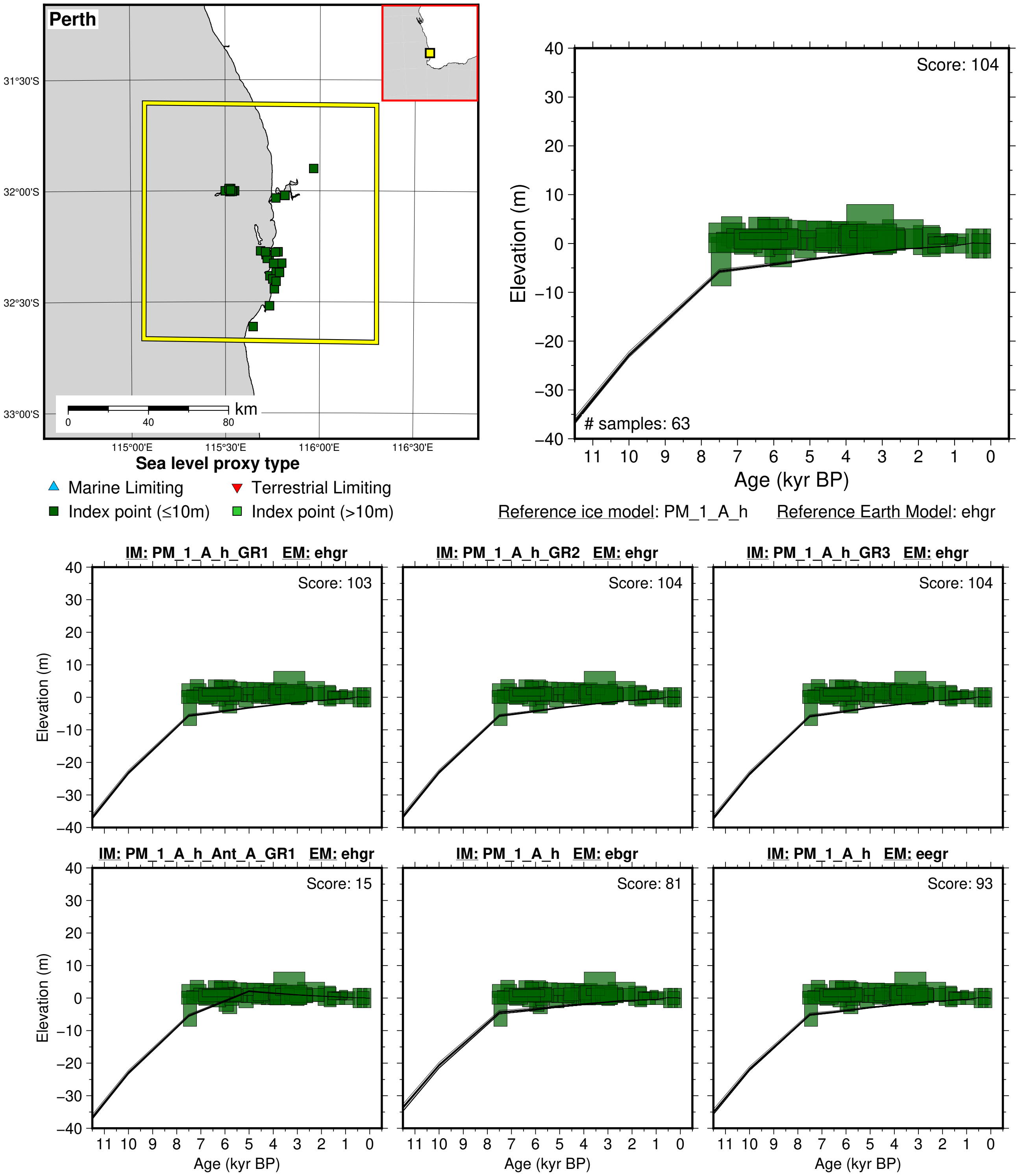

Figure 55: Paleo-sea level and comparison of six models for subregion: Western Australia, location: Perth. References: Baker et al. (2001b, 2005); Brown et al. (1980); Deevey et al. (1959); Gillespie and Temple (1976); Kendrick (1977); Kigoshi et al. (1973); Lewis et al. (2013); Playford (1988); Searle and Woods (1986); Searle et al. (1988); Tamers et al. (1964).

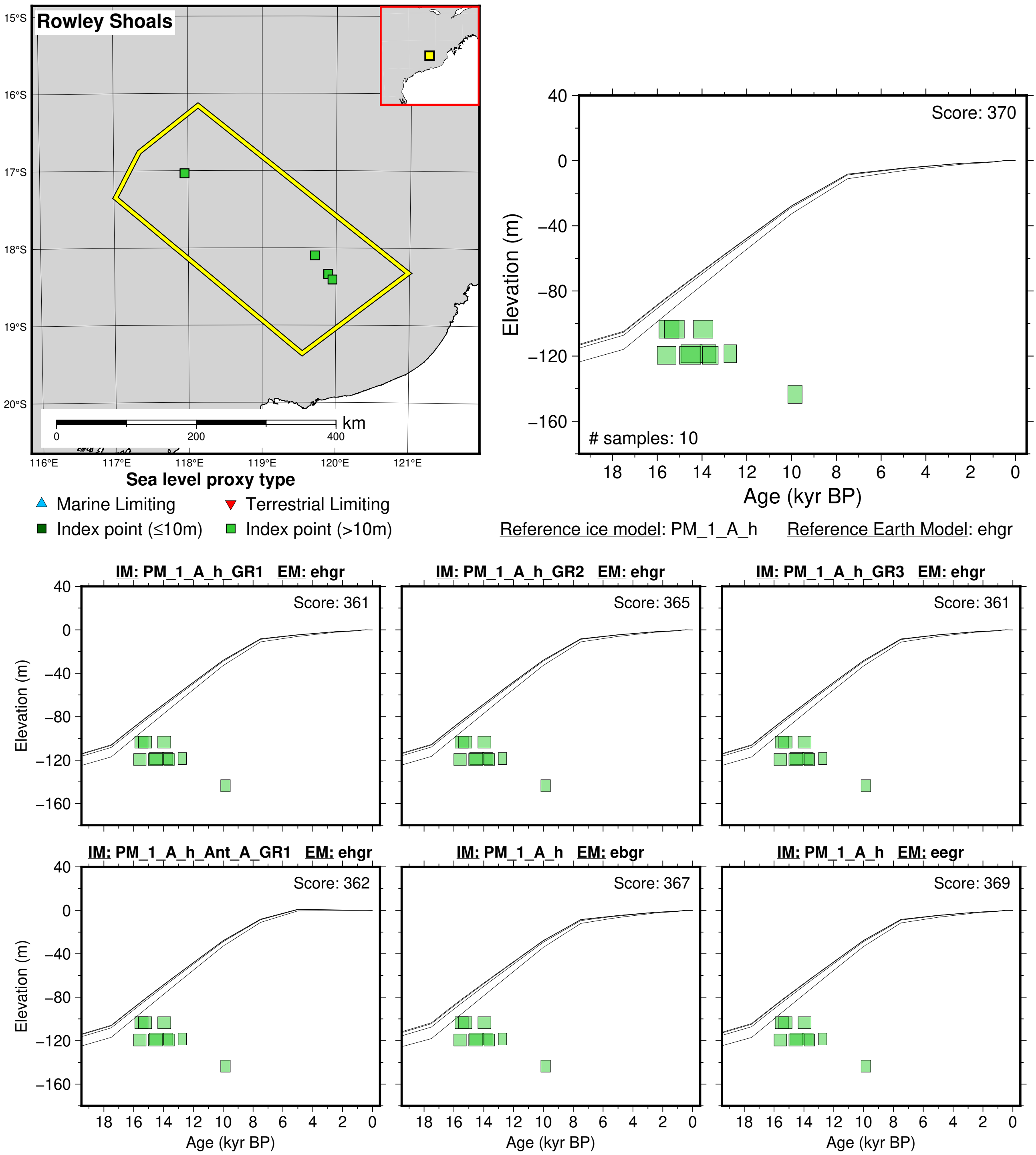

Figure 56: Paleo-sea level and comparison of six models for subregion: Western Australia, location: Rowley Shoals. References: James et al. (2004); Lewis et al. (2013).

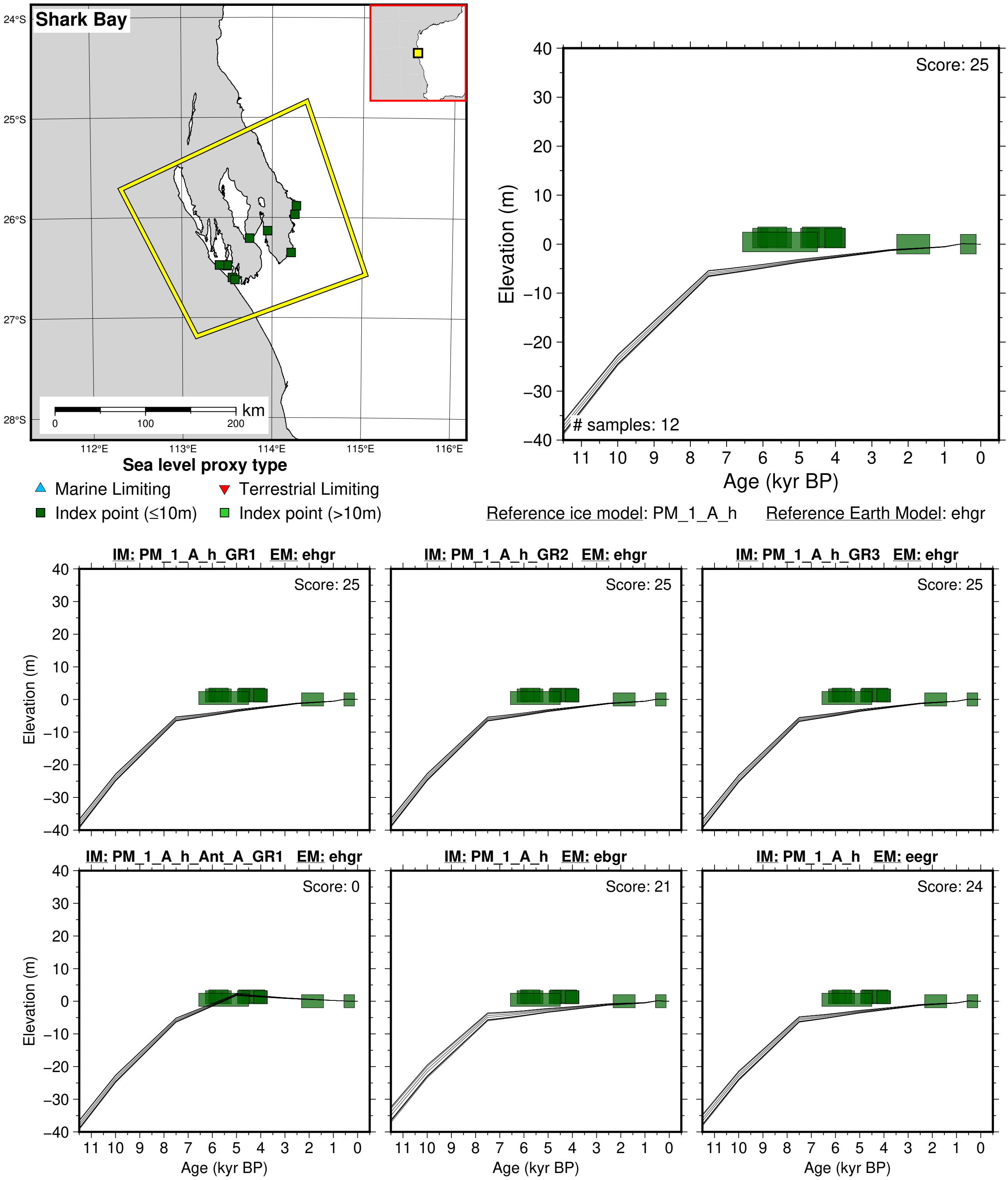

Figure 57: Paleo-sea level and comparison of six models for subregion: Western Australia, location: Shark Bay. References: Lewis et al. (2013); Logan et al. (1970); Noakes and Brandau (1971); Noakes et al. (1967, 1968); Read (1974).

6.3 Caribbean

6.3.1 Lesser Antilles

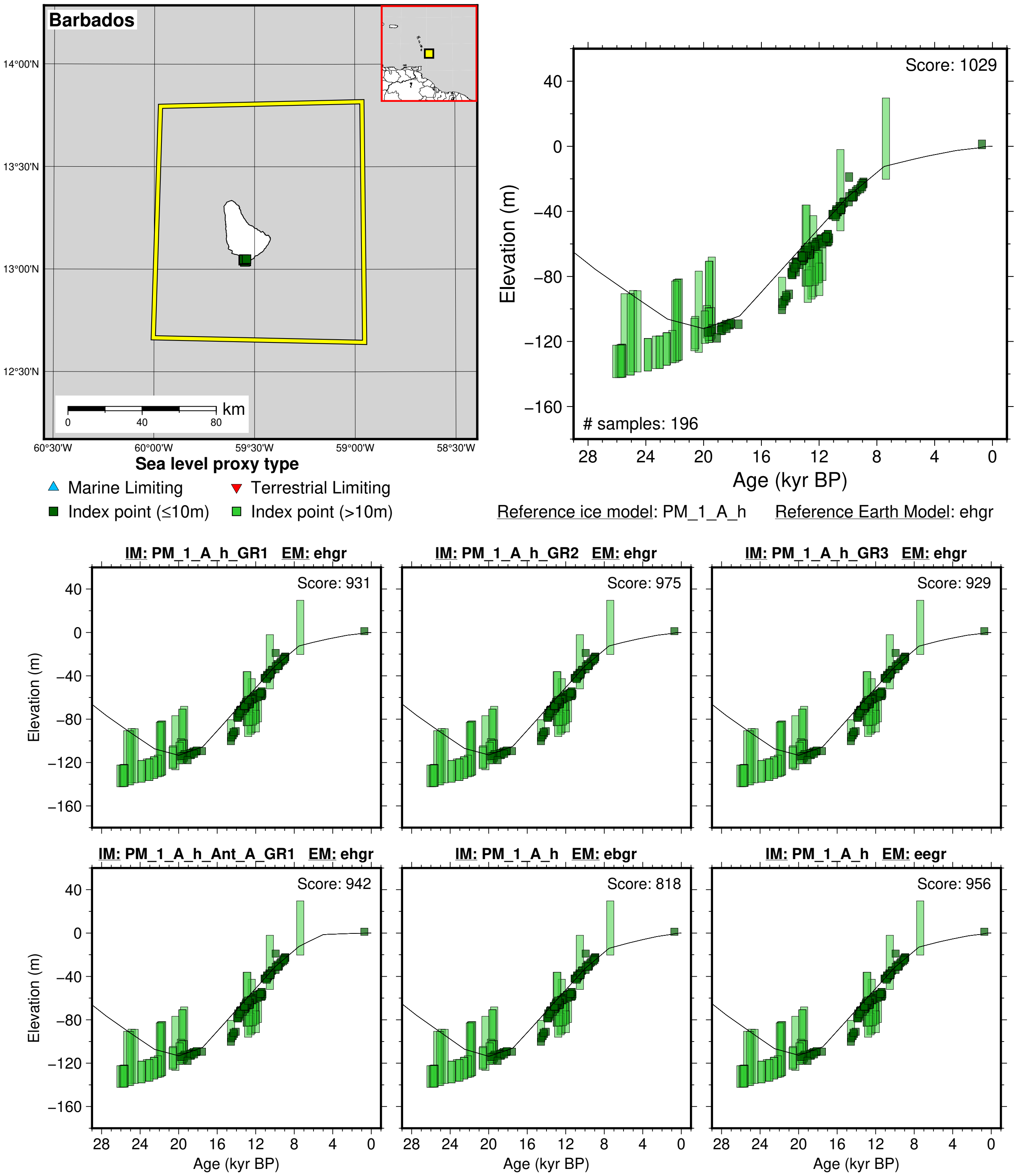

Figure 58: Paleo-sea level and comparison of six models for subregion: Lesser Antilles, location: Barbados. References: Abdul et al. (2016); Fairbanks (1988); Fairbanks et al. (2005); Mortlock et al. (2005, 2016); Peltier and Fairbanks (2006).

6.4 East Asia

6.4.1 Ryukyu Islands

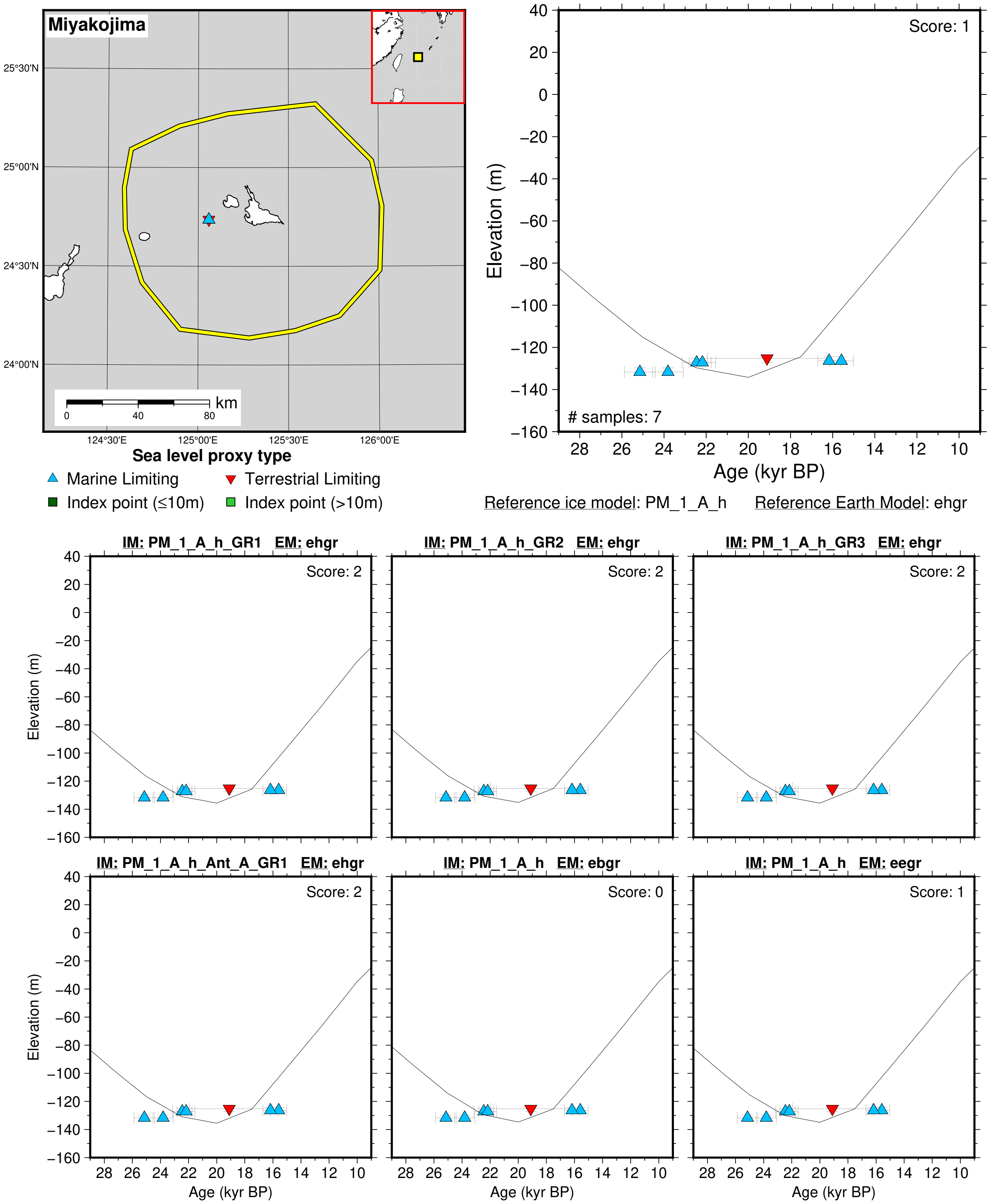

Figure 59: Paleo-sea level and comparison of six models for subregion: Ryukyu Islands, location: Miyakojima. References: Sasaki et al. (2006).

6.4.2 Sea of Japan - East Sea

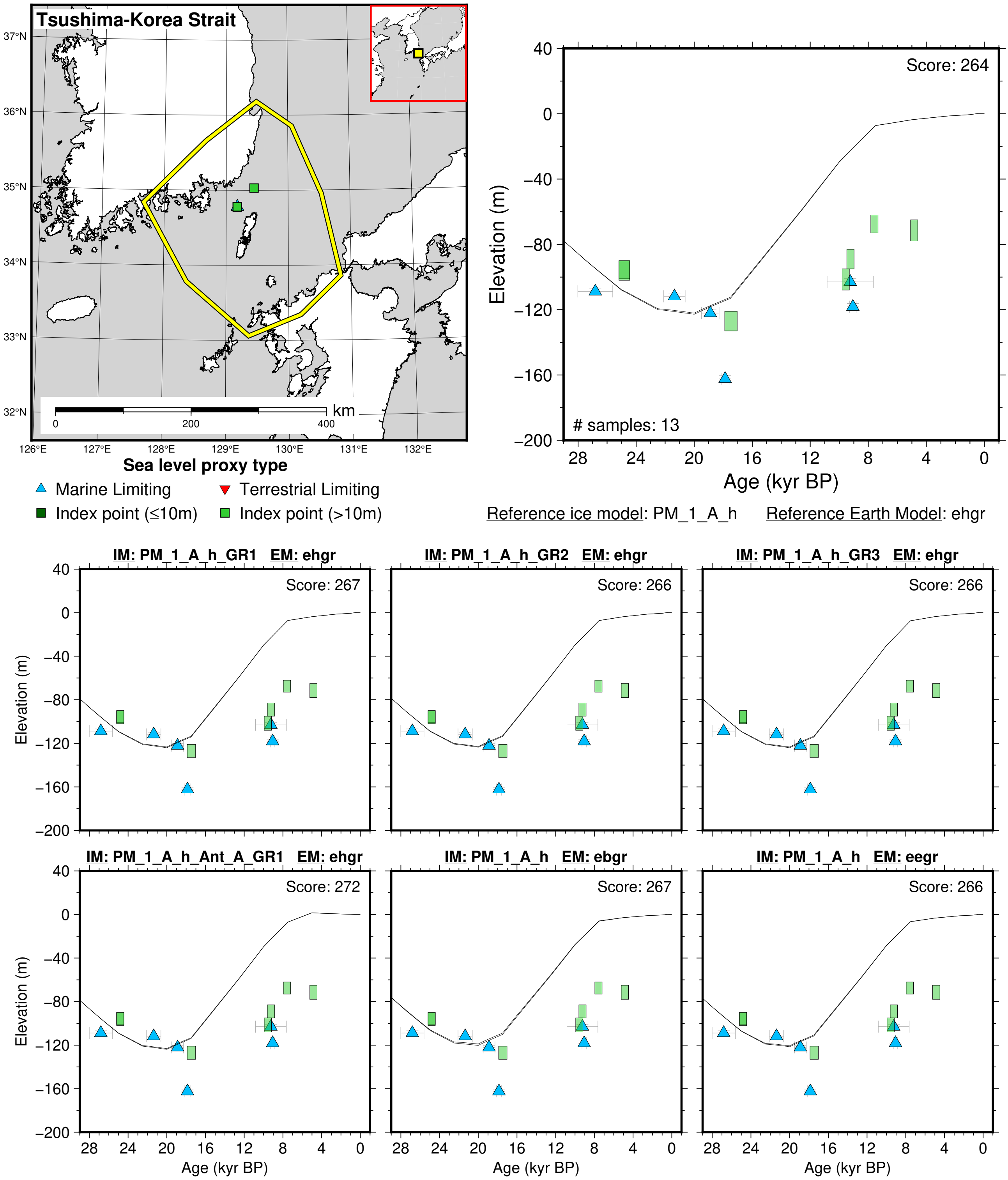

Figure 60: Paleo-sea level and comparison of six models for subregion: Sea of Japan - East Sea, location: Tsushima-Korea Strait. References: Park et al. (2000).

6.5 Eurasian Arctic

6.5.1 Franz Josef Land

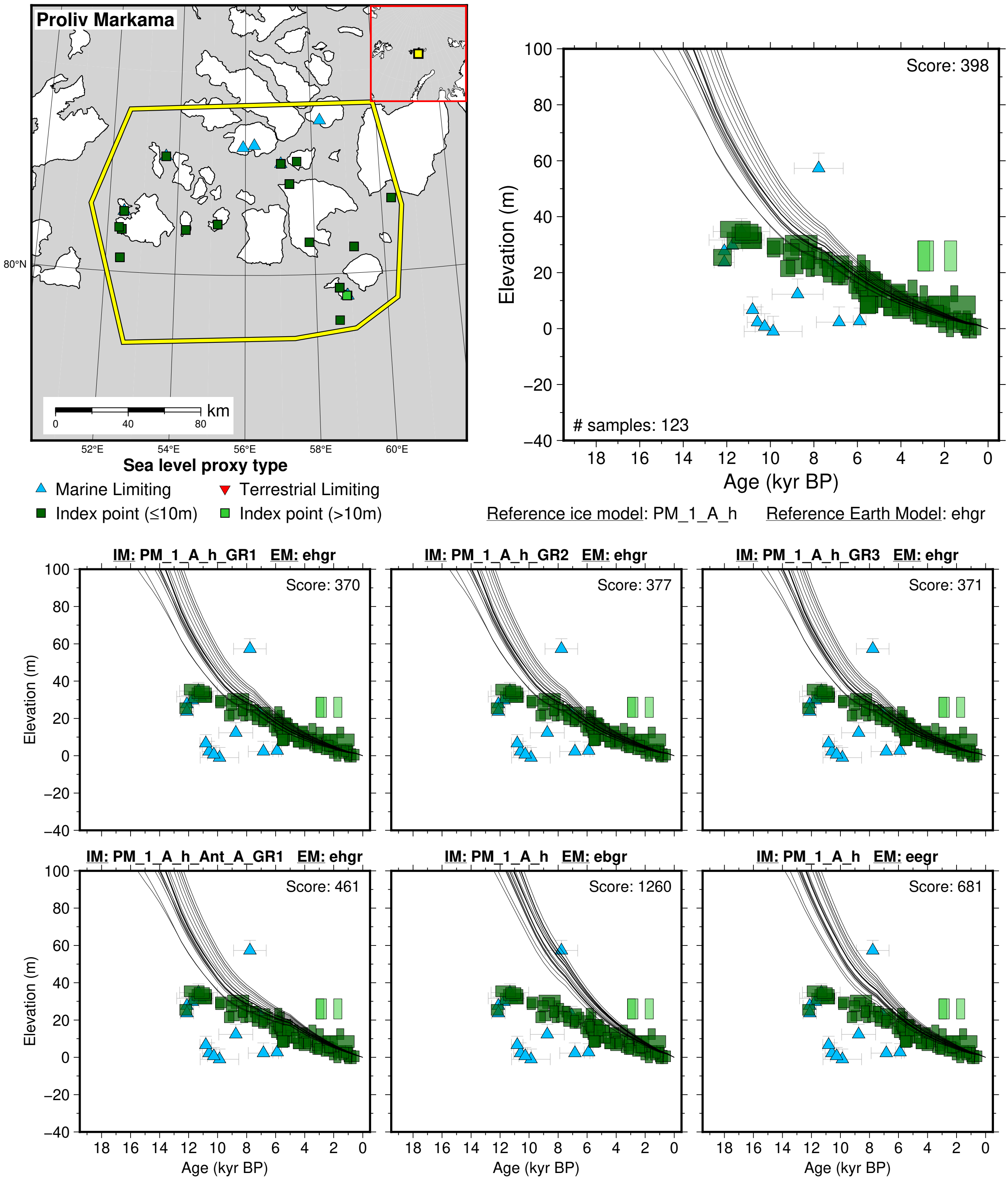

Figure 61: Paleo-sea level and comparison of six models for subregion: Franz Josef Land, location: Proliv Markama. References: Baranskaya et al. (2018a); Bolshiyanov et al. (2009); Forman and Polyak (1997); Forman et al. (1996, 2004); Grosswald (1963); Grosswald et al. (1973); Gusev et al. (2013b); Kovaleva (1974); Lubinski (1998); Weihe (1996).

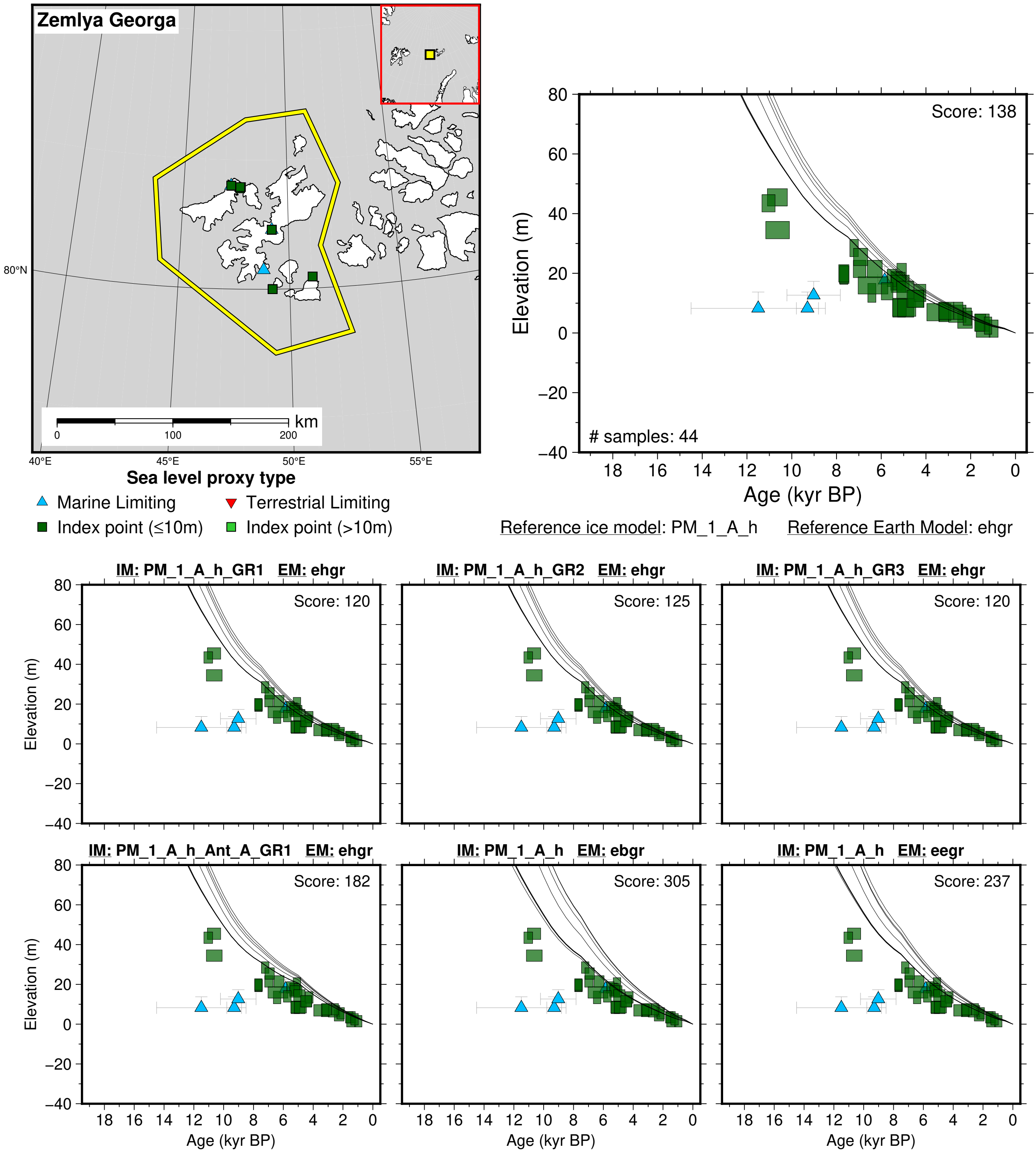

Figure 62: Paleo-sea level and comparison of six models for subregion: Franz Josef Land, location: Zemlya Georga. References: Baranskaya et al. (2018a); Bolshiyanov et al. (2009); Dibner (1965); Forman et al. (1996, 2004); Glazovskiy et al. (1992); Grosswald et al. (1973); Kovaleva (1974).

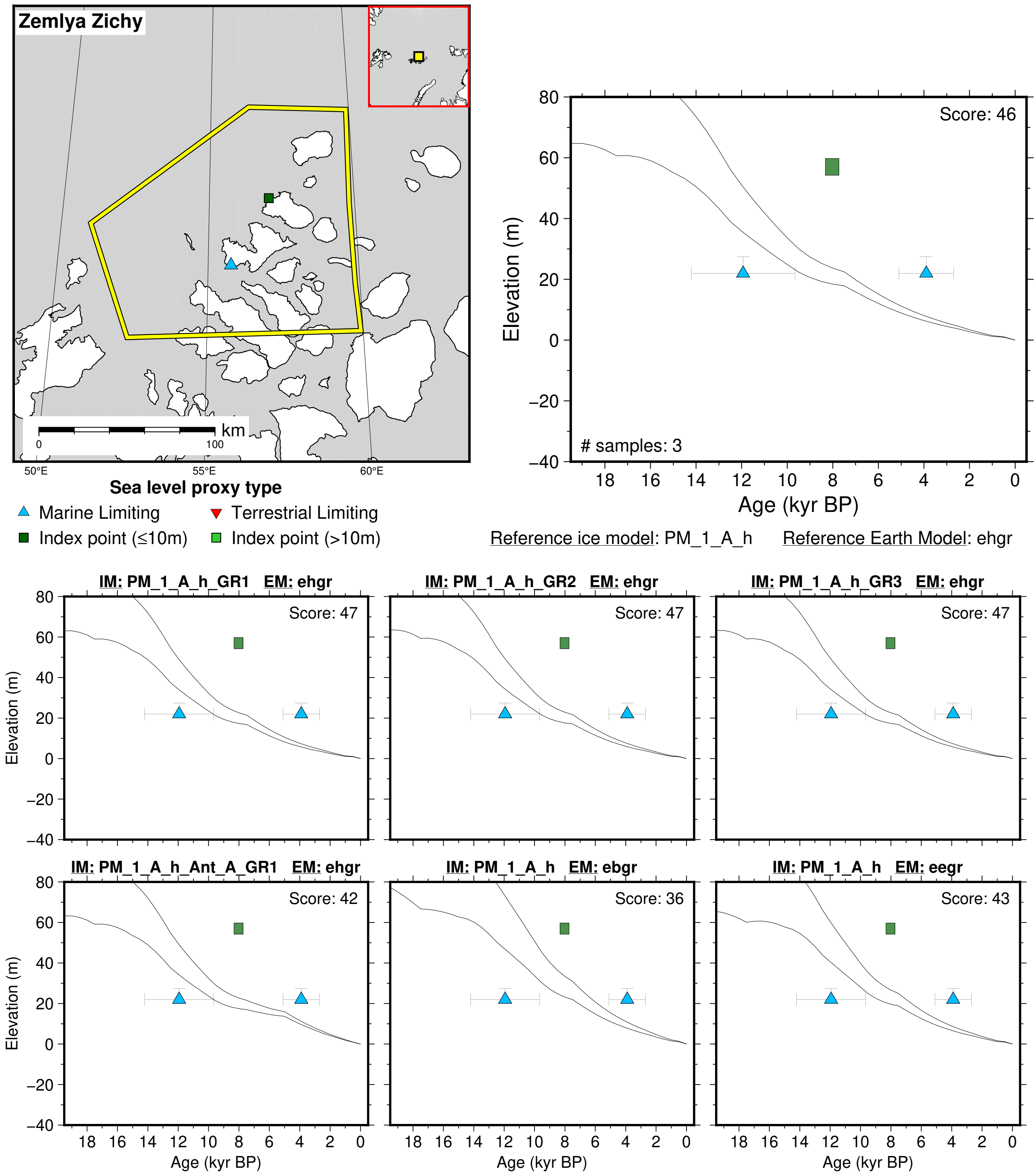

Figure 63: Paleo-sea level and comparison of six models for subregion: Franz Josef Land, location: Zemlya Zichy. References: Baranskaya et al. (2018a); Bolshiyanov et al. (2009).

6.5.2 Kara Sea - Novaya Zemlya

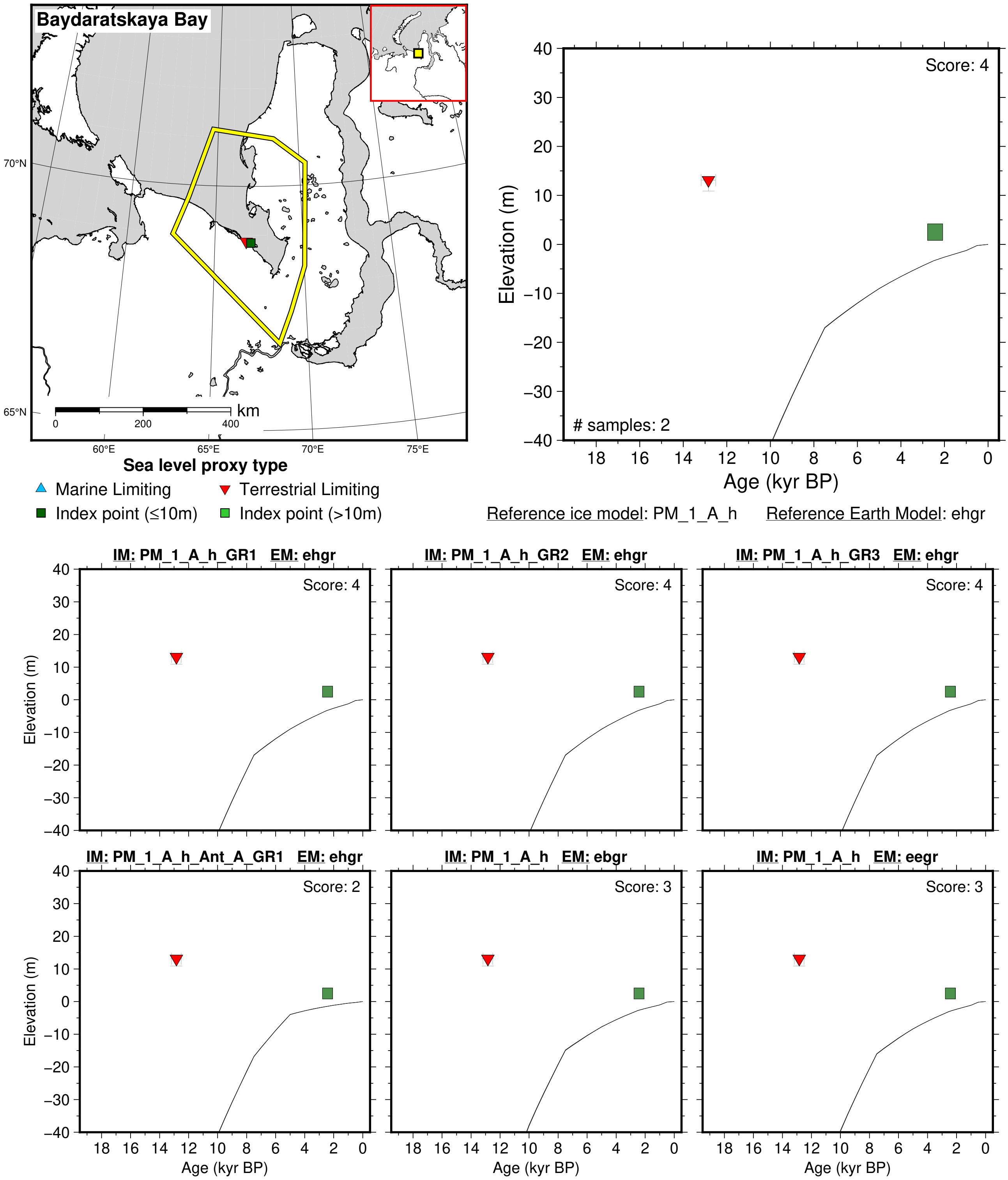

Figure 64: Paleo-sea level and comparison of six models for subregion: Kara Sea - Novaya Zemlya, location: Baydaratskaya Bay. References: Baranskaya et al. (2018a); Belova (2012); Romanenko et al. (2007).

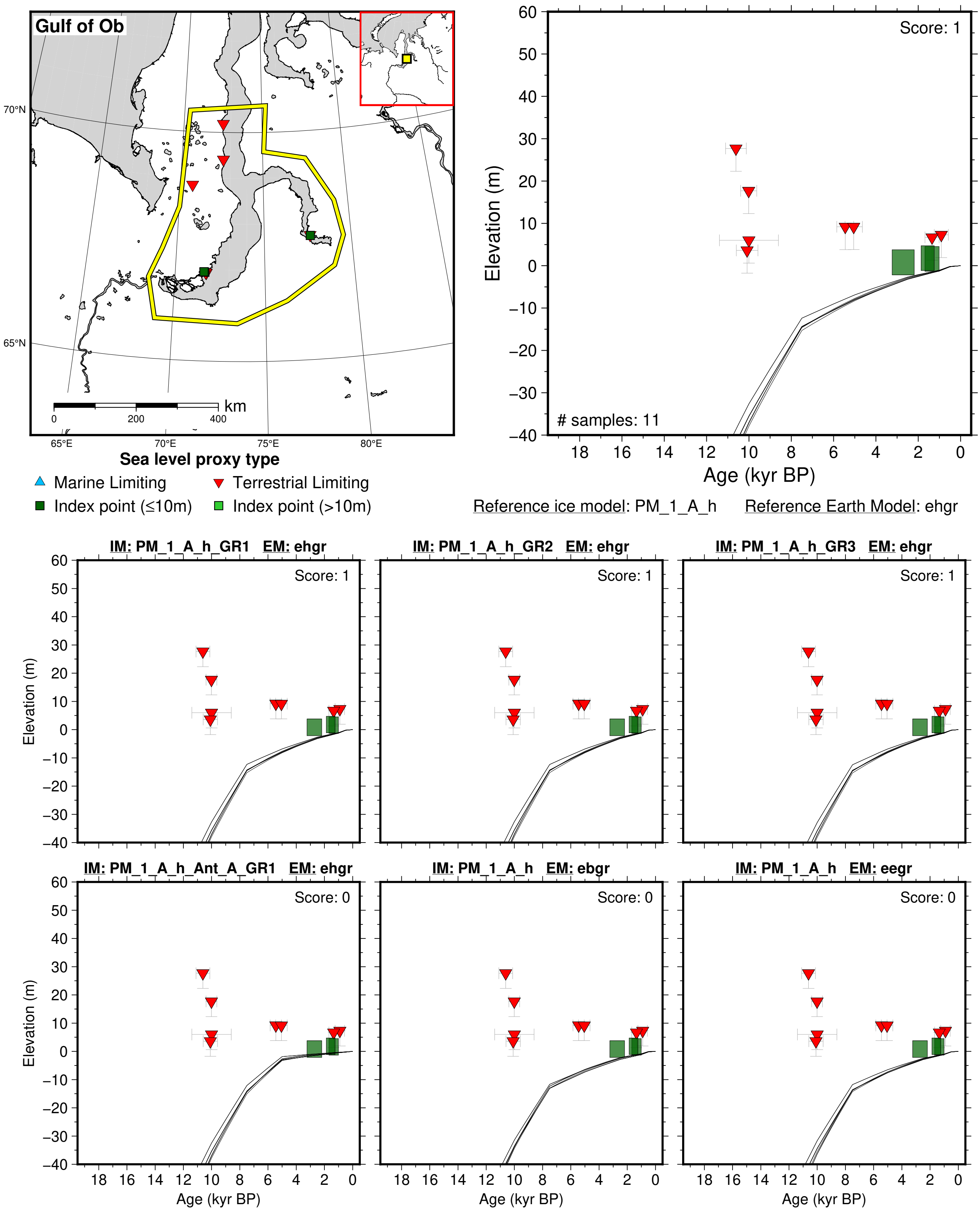

Figure 65: Paleo-sea level and comparison of six models for subregion: Kara Sea - Novaya Zemlya, location: Gulf of Ob. References: Astakhov and Nazarov (2010); Baranskaya et al. (2018a); Makeev (1988); Makeev et al. (1988).

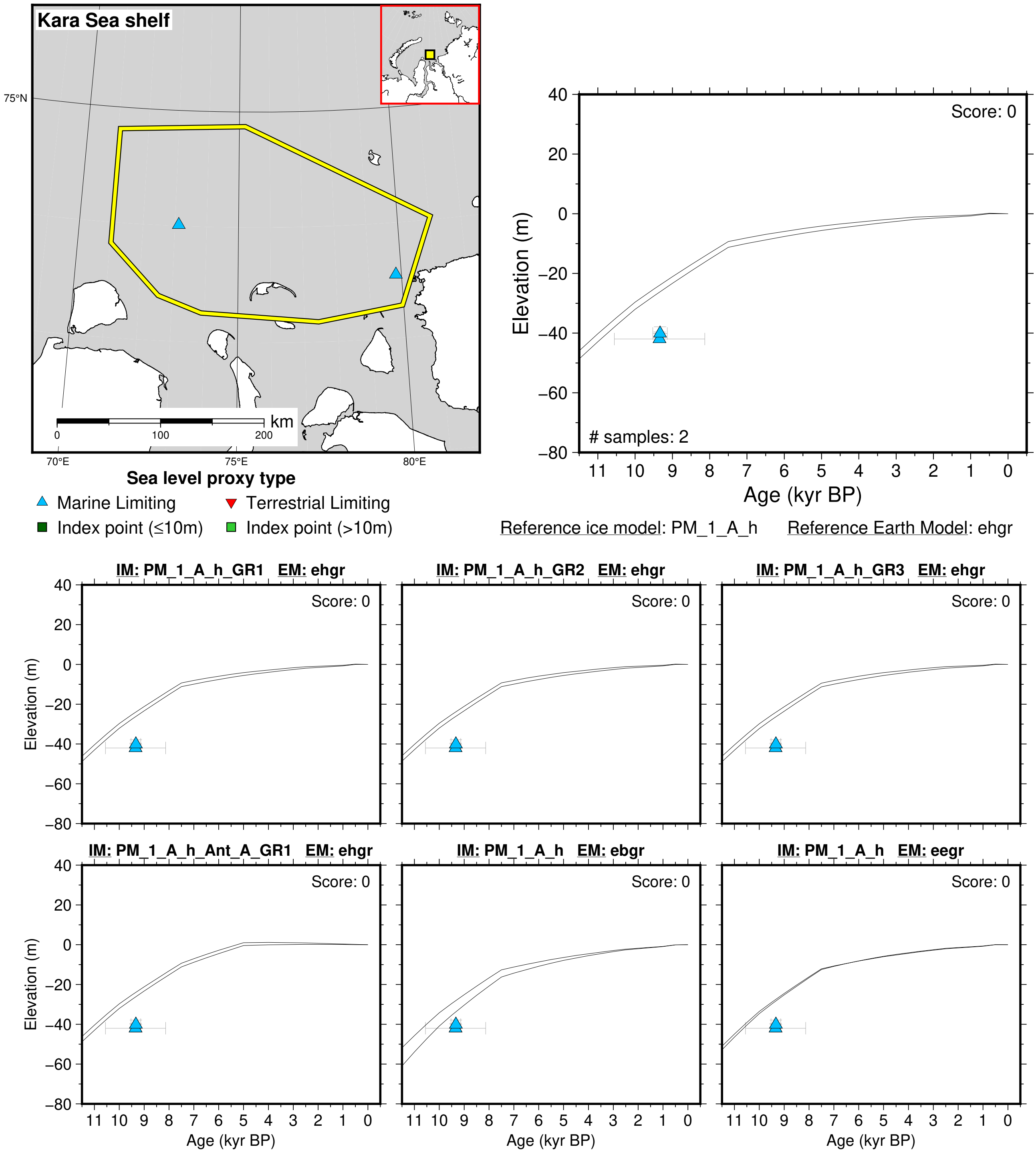

Figure 66: Paleo-sea level and comparison of six models for subregion: Kara Sea - Novaya Zemlya, location: Kara Sea shelf. References: Baranskaya et al. (2018a); Levitan et al. (2007); Polyakova and Stein (2004).

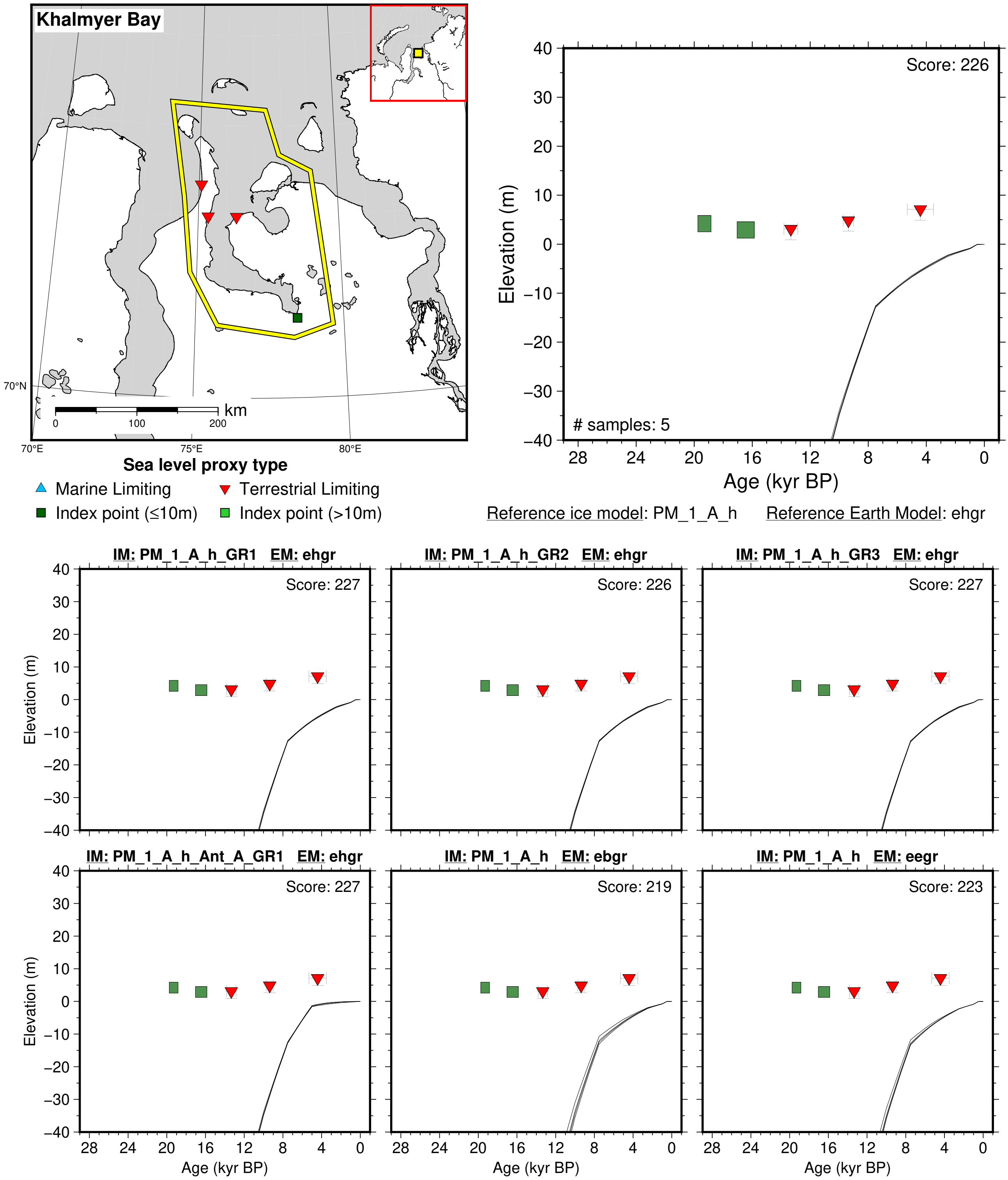

Figure 67: Paleo-sea level and comparison of six models for subregion: Kara Sea - Novaya Zemlya, location: Khalmyer Bay. References: Baranskaya et al. (2018a,b); Grigorieva (1987).

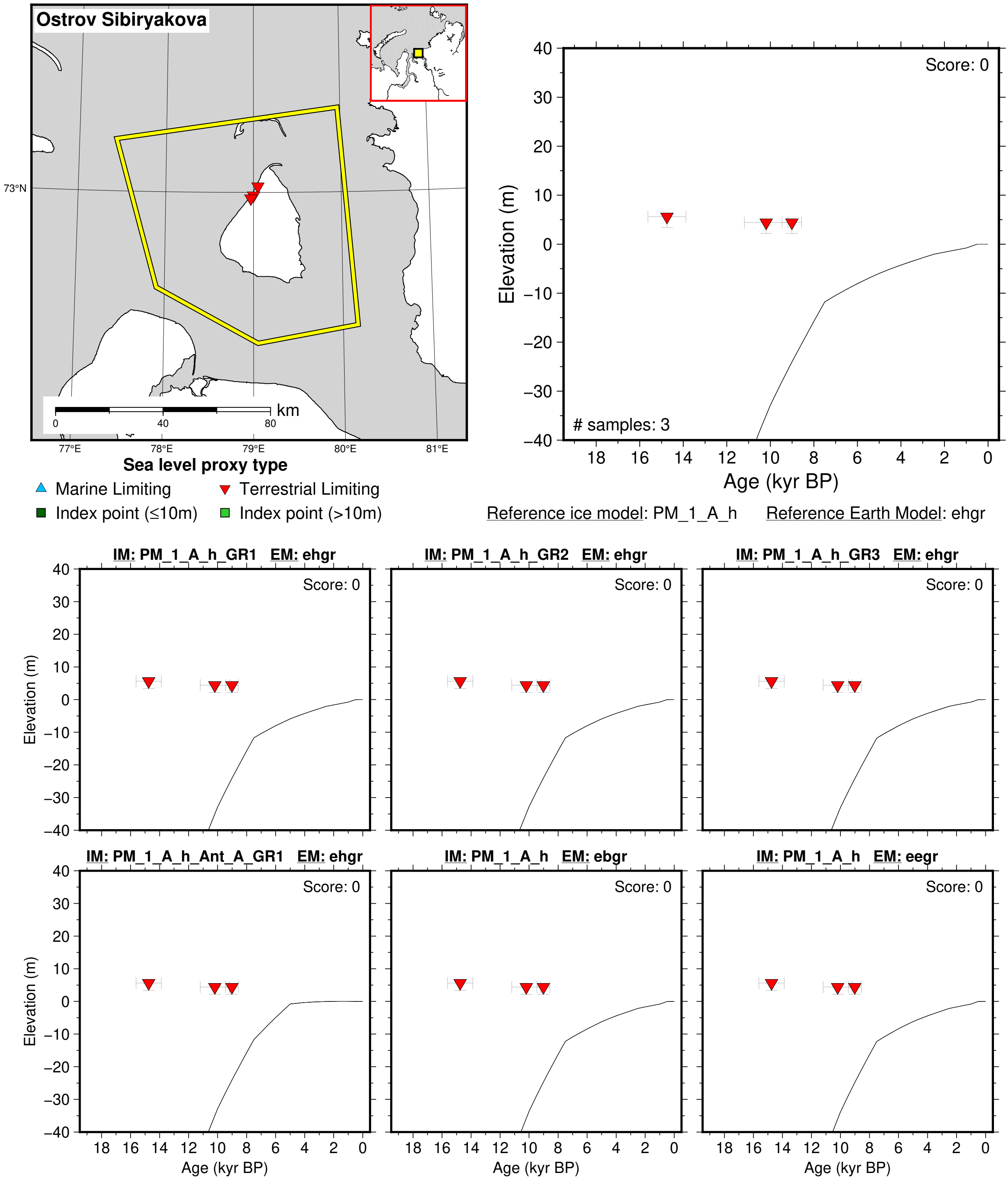

Figure 68: Paleo-sea level and comparison of six models for subregion: Kara Sea - Novaya Zemlya, location: Ostrov Sibiryakova. References: Baranskaya et al. (2018a); Gusev et al. (2013a).

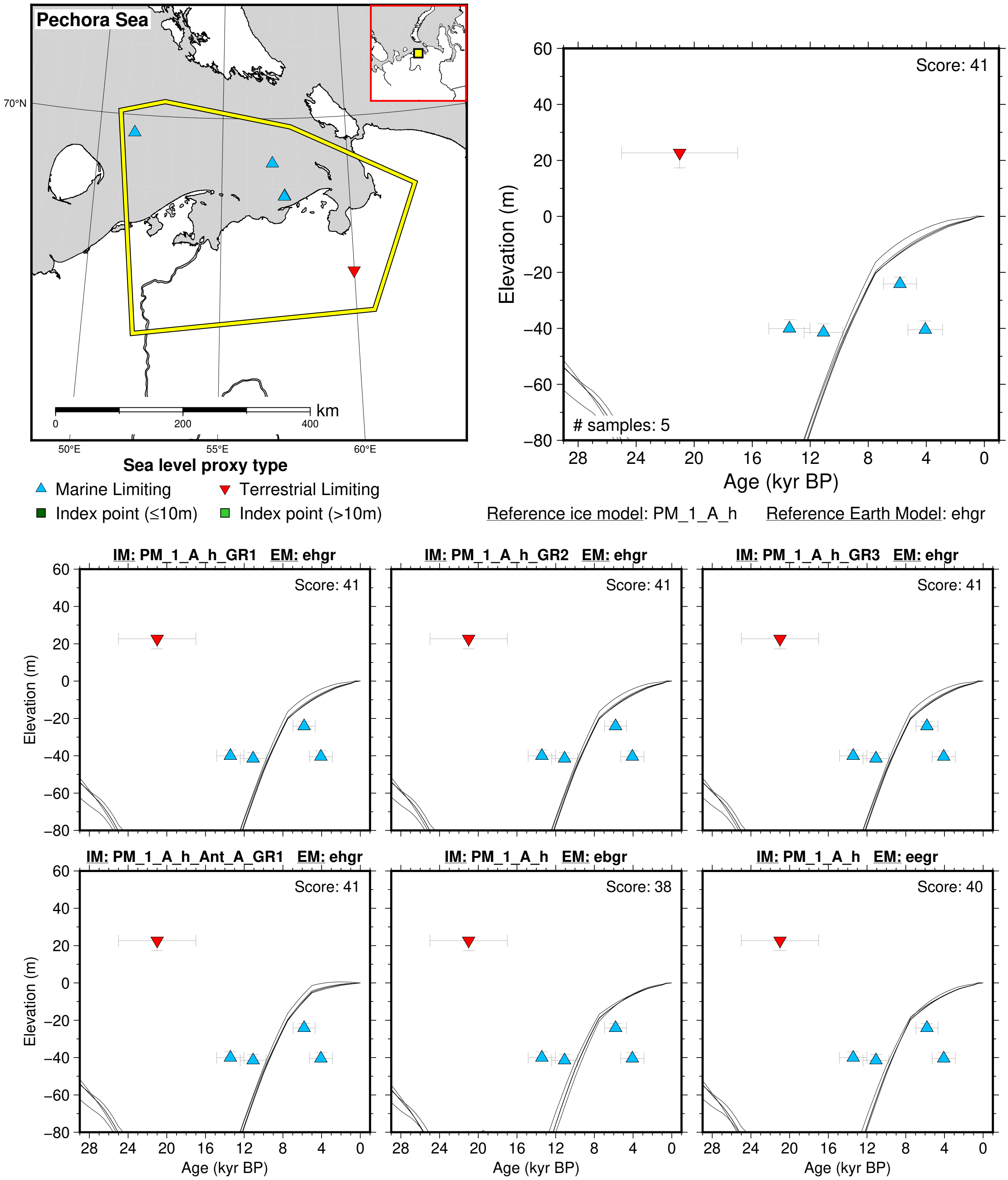

Figure 69: Paleo-sea level and comparison of six models for subregion: Kara Sea - Novaya Zemlya, location: Pechora Sea. References: Astakhov et al. (2007); Baranskaya et al. (2018a); Krapivner (2006); Polyak et al. (2000); Zhuravlev et al. (2013).

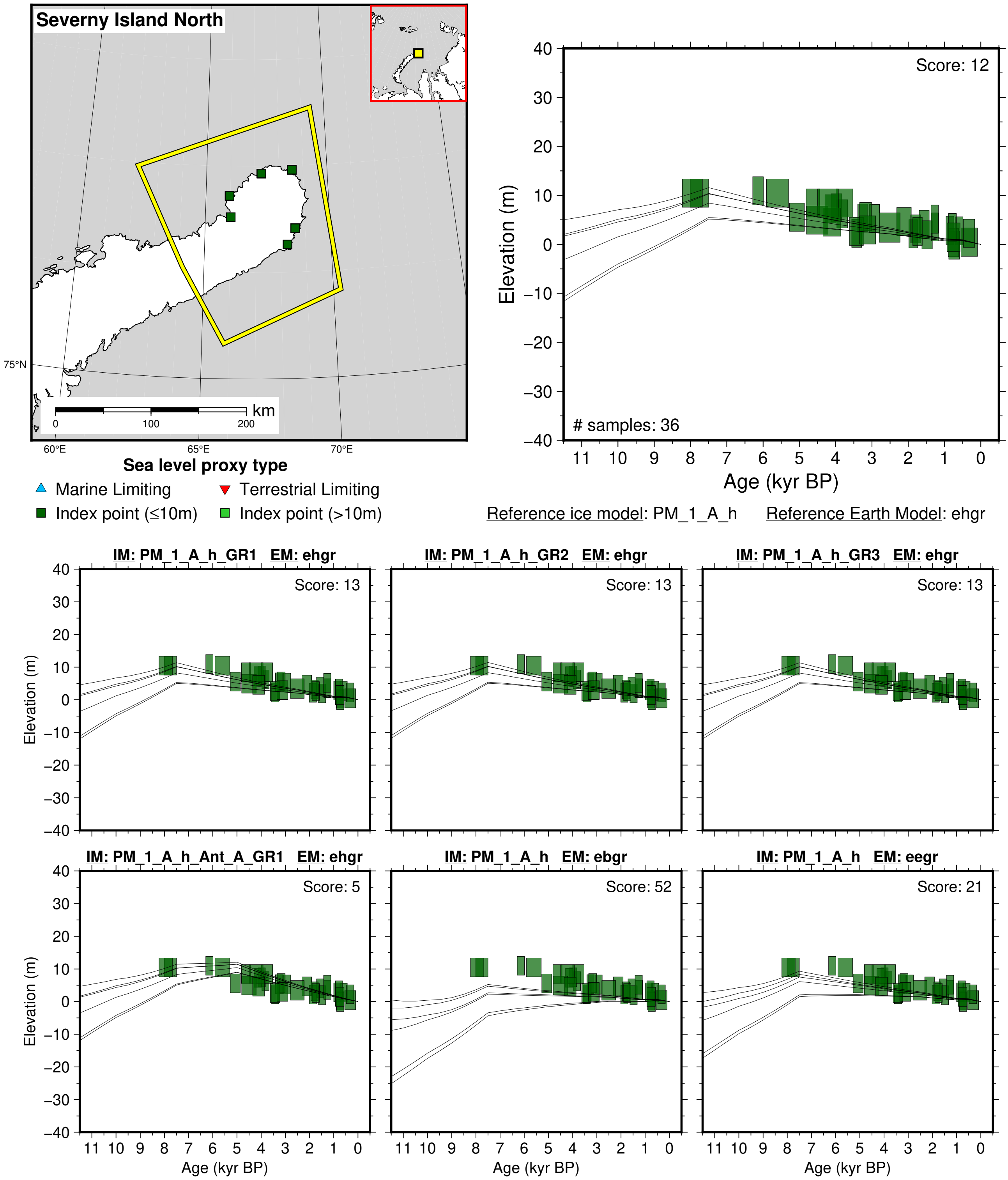

Figure 70: Paleo-sea level and comparison of six models for subregion: Kara Sea - Novaya Zemlya, location: Severny Island North. References: Baranskaya et al. (2018a); Forman et al. (1999, 2004); Gawronski and Zeeberg (1997); Zeeberg et al. (2001).

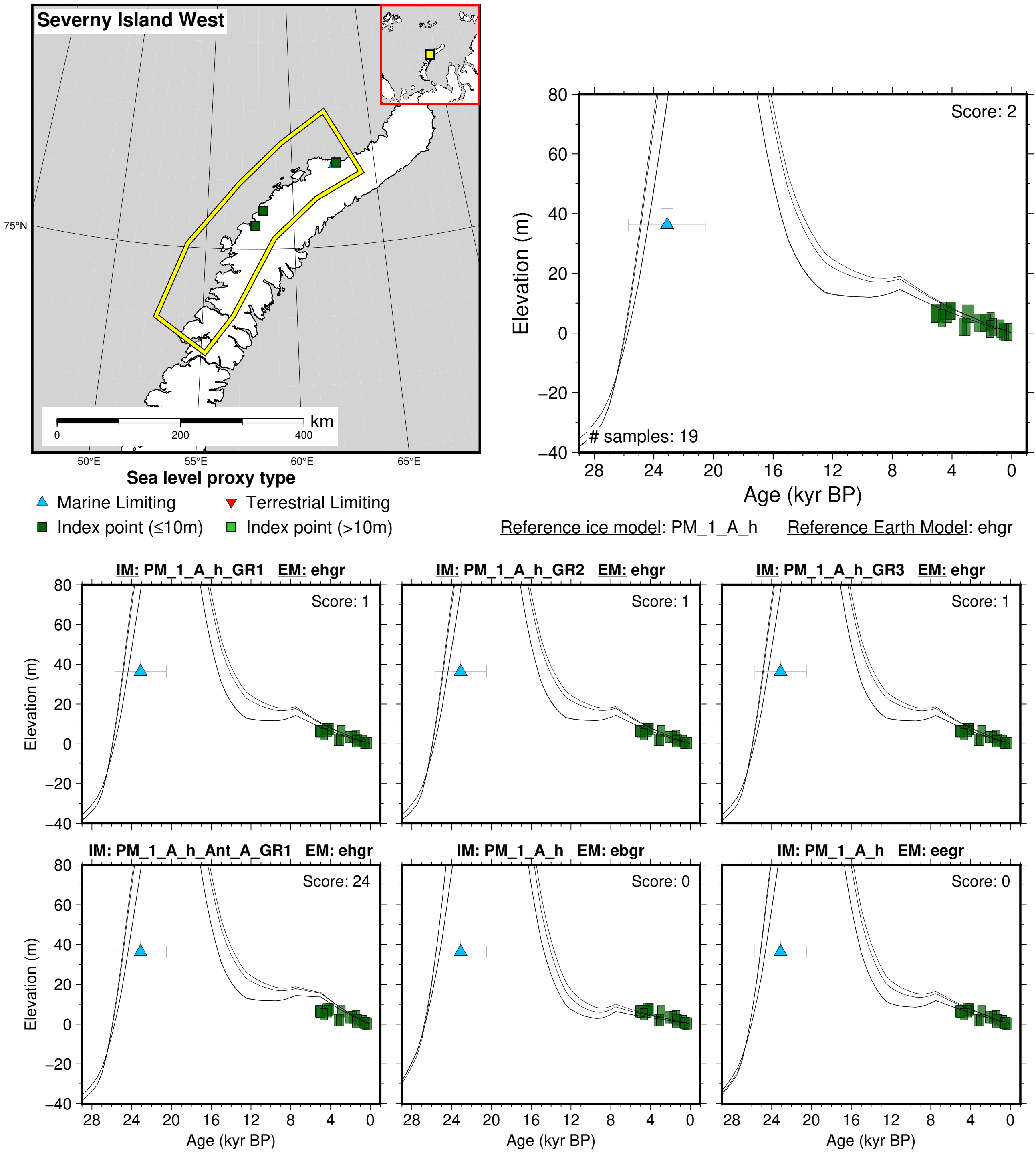

Figure 71: Paleo-sea level and comparison of six models for subregion: Kara Sea - Novaya Zemlya, location: Severny Island West. References: Baranskaya et al. (2018a); Bolshiyanov et al. (2009); Forman et al. (1999, 2004); Zeeberg et al. (2001).

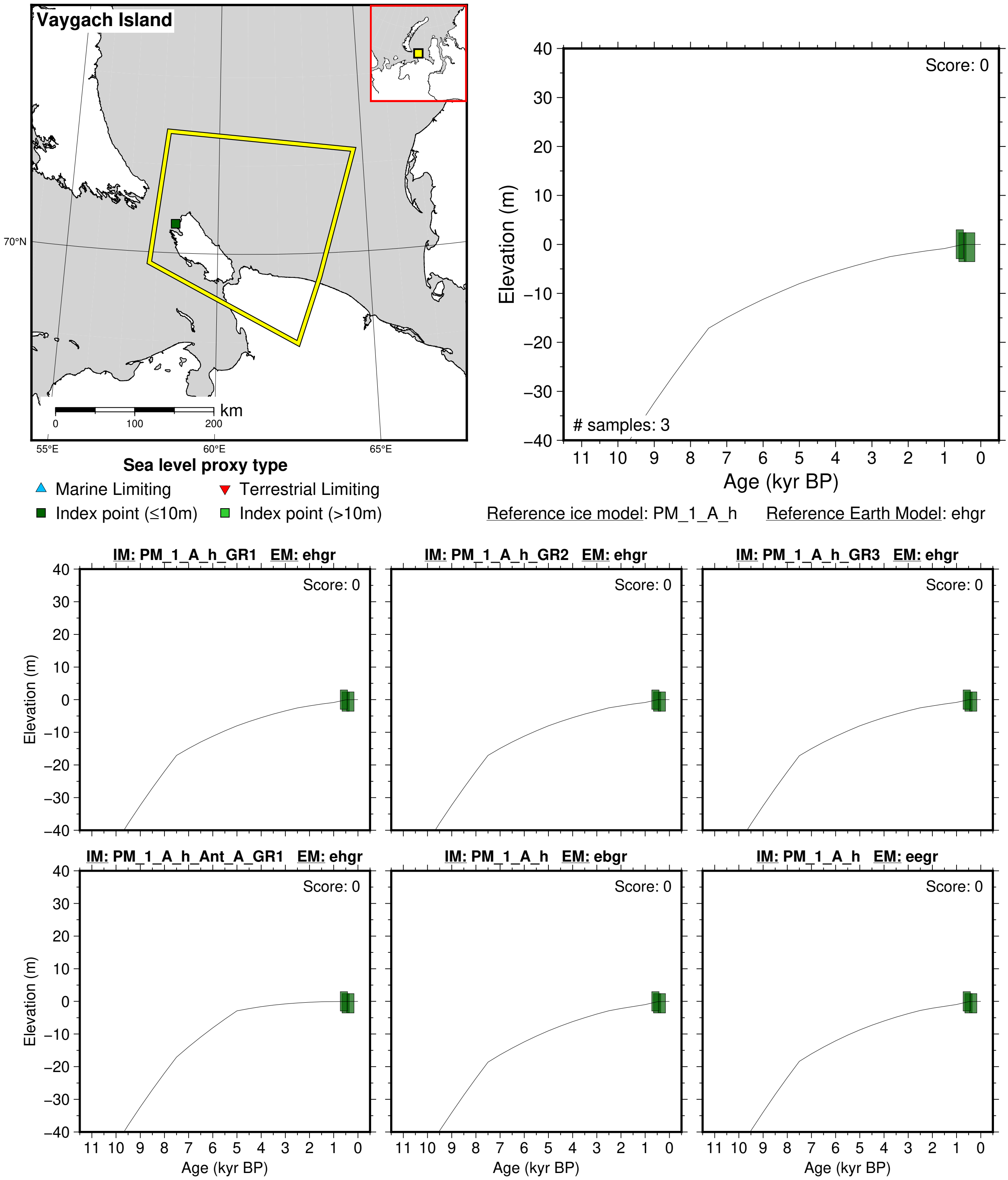

Figure 72: Paleo-sea level and comparison of six models for subregion: Kara Sea - Novaya Zemlya, location: Vaygach Island. References: Baranskaya et al. (2018a); Forman et al. (2004); Zeeberg et al. (2001).

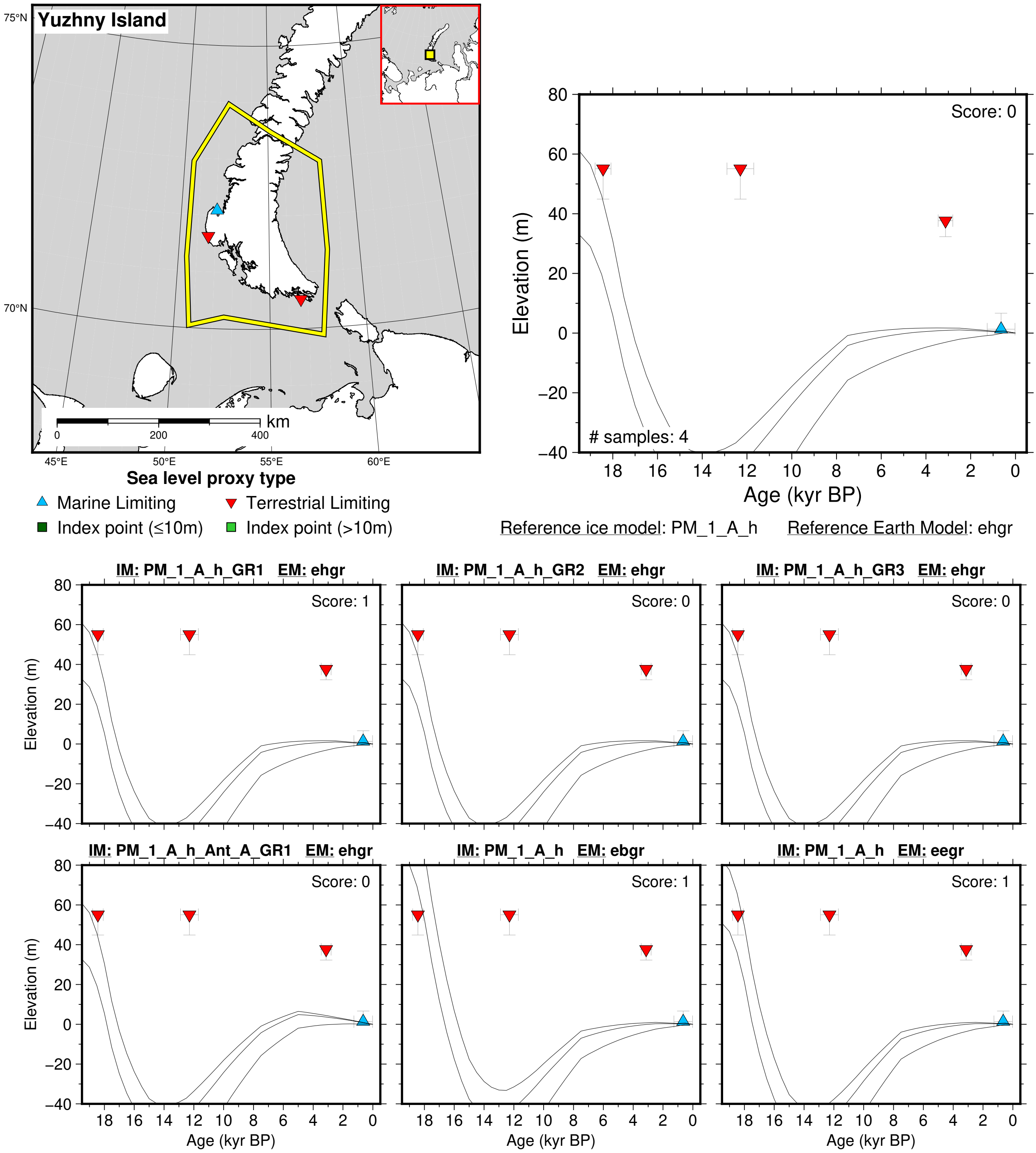

Figure 73: Paleo-sea level and comparison of six models for subregion: Kara Sea - Novaya Zemlya, location: Yuzhny Island. References: Baranskaya et al. (2018a); Bolshiyanov et al. (2006); Mangerud et al. (2008); Zhuravlev et al. (2013).

6.5.3 Southern Barents Sea

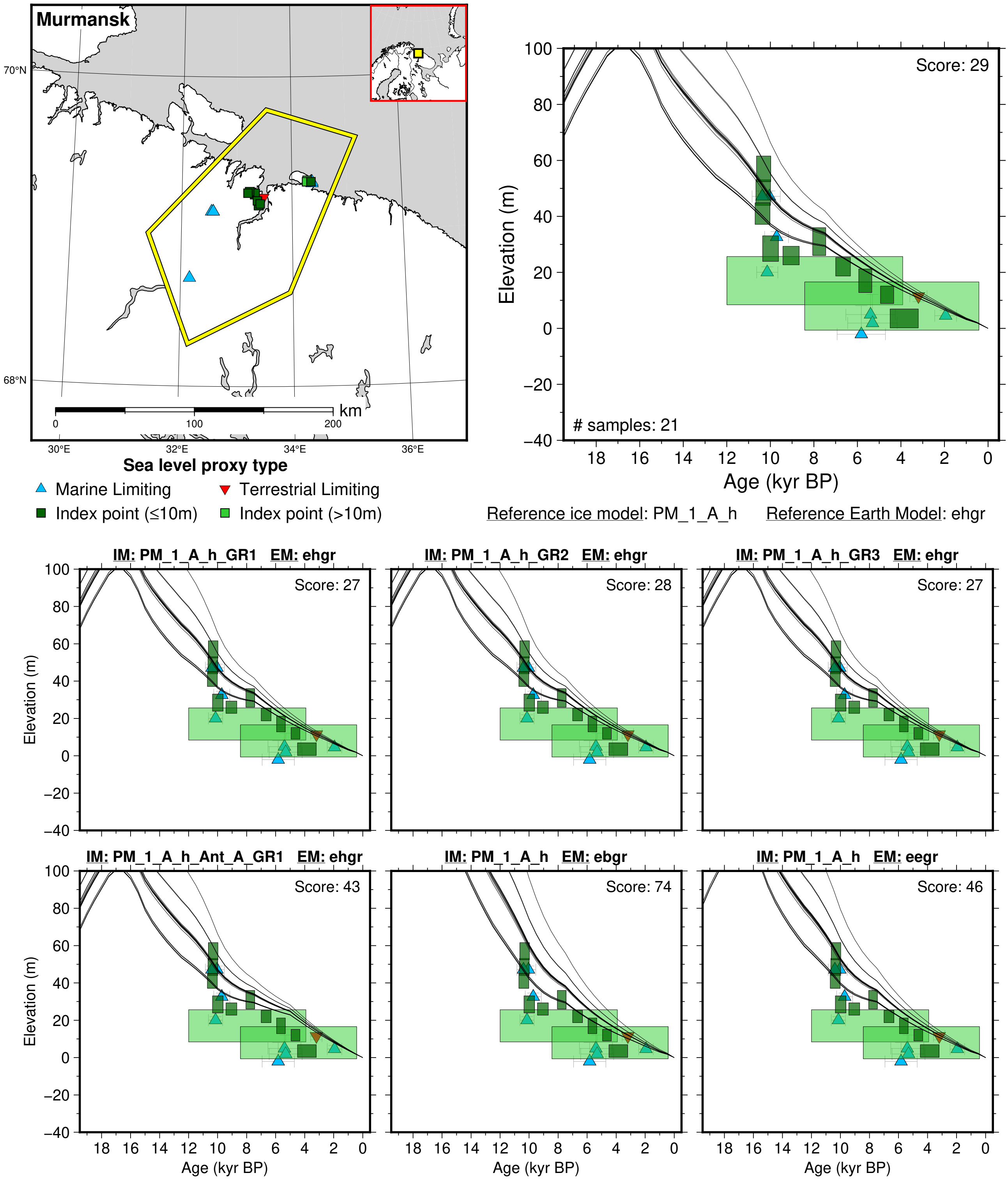

Figure 74: Paleo-sea level and comparison of six models for subregion: Southern Barents Sea, location: Murmansk. References: Arslanov et al. (1974); Baranskaya et al. (2018a); Corner et al. (2001); Gurevich and Liyva (1975); Gurina (1971); Mityaev M. V. (2008); Tanner (1907).

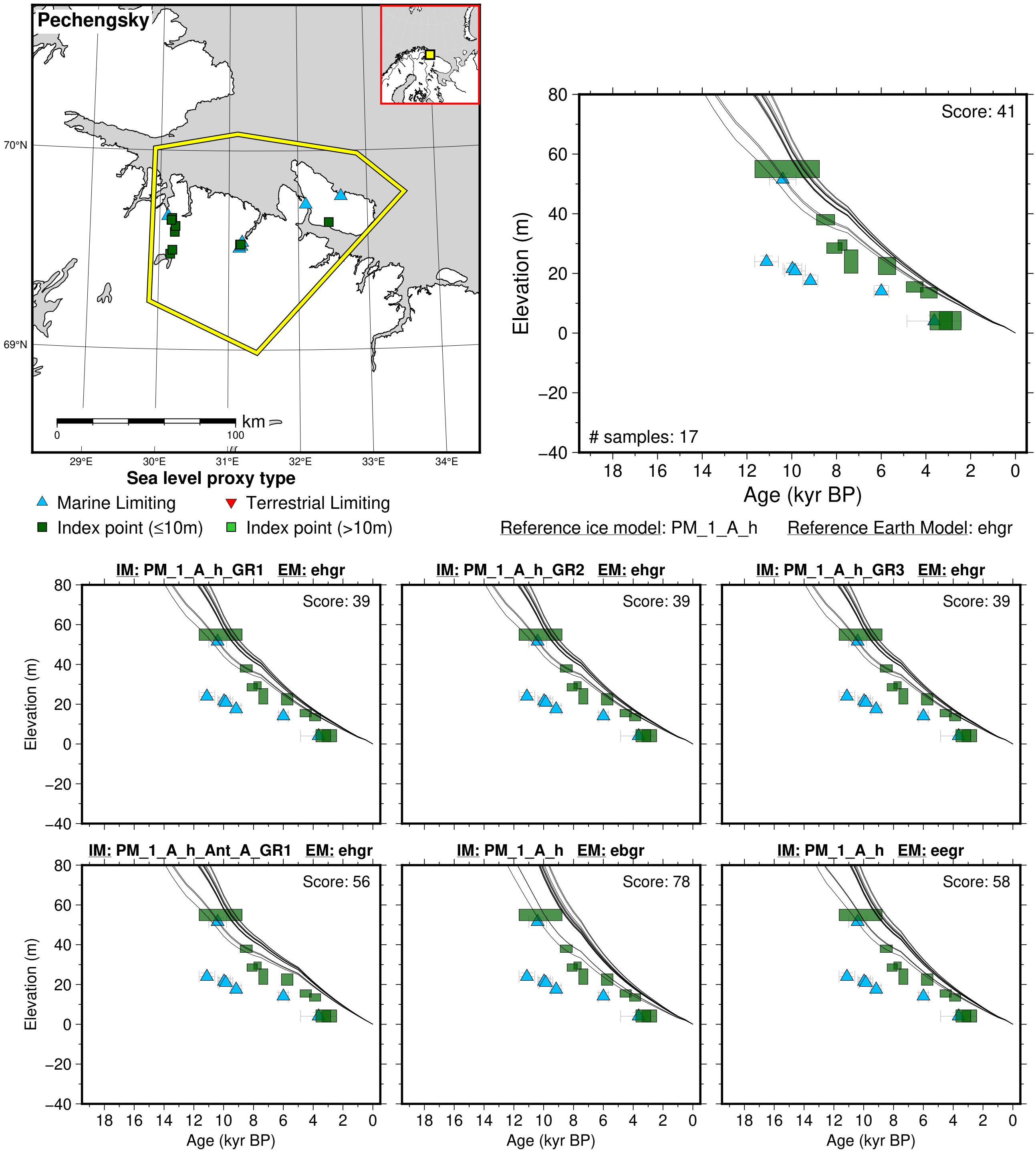

Figure 75: Paleo-sea level and comparison of six models for subregion: Southern Barents Sea, location: Pechengsky. References: Arslanov et al. (1974); Baranskaya et al. (2018a); Corner et al. (1999); Koshechkin (1979).

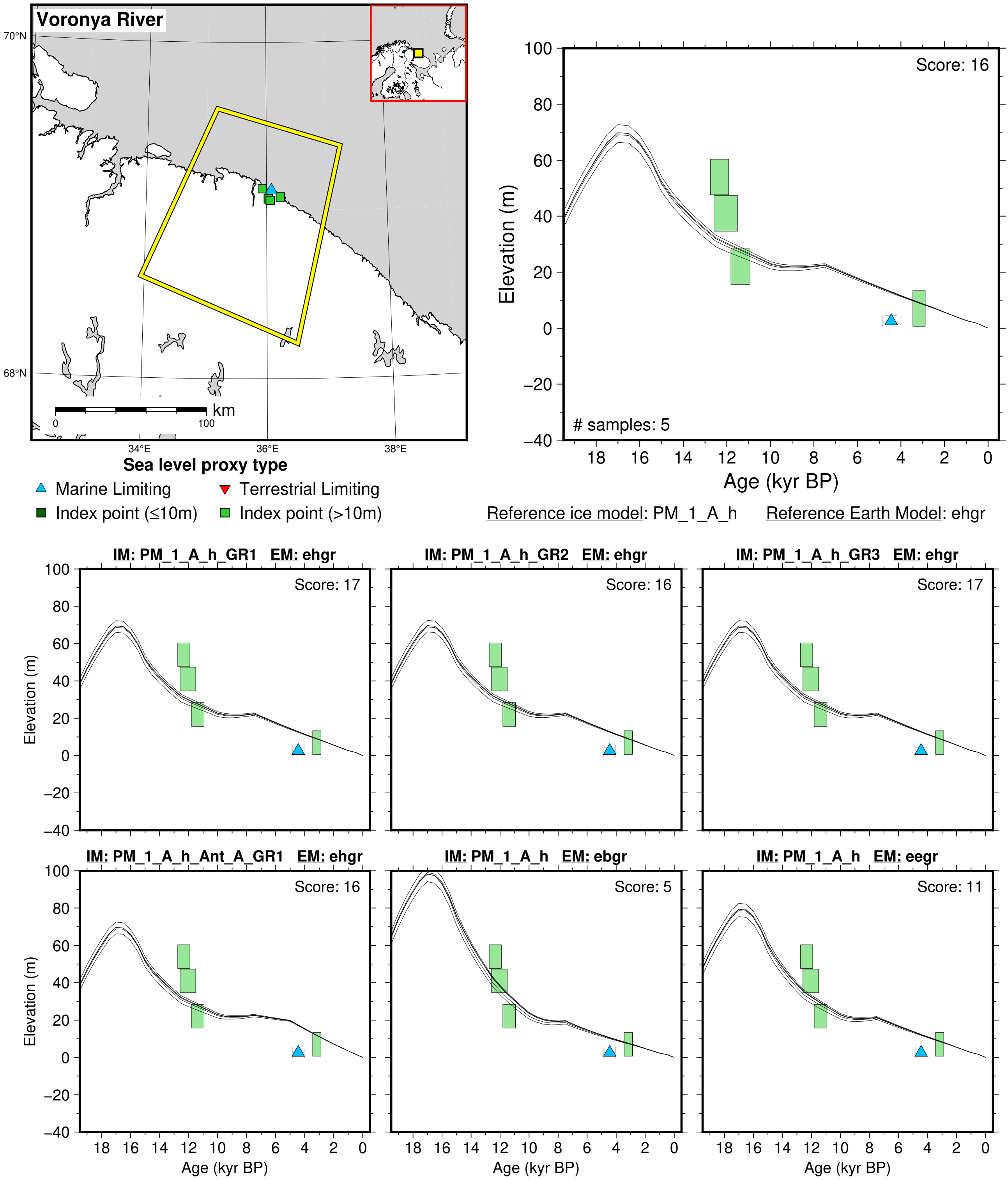

Figure 76: Paleo-sea level and comparison of six models for subregion: Southern Barents Sea, location: Voronya River. References: Arslanov et al. (1974); Baranskaya et al. (2018a); Snyder et al. (1997).

6.5.4 Western Siberia

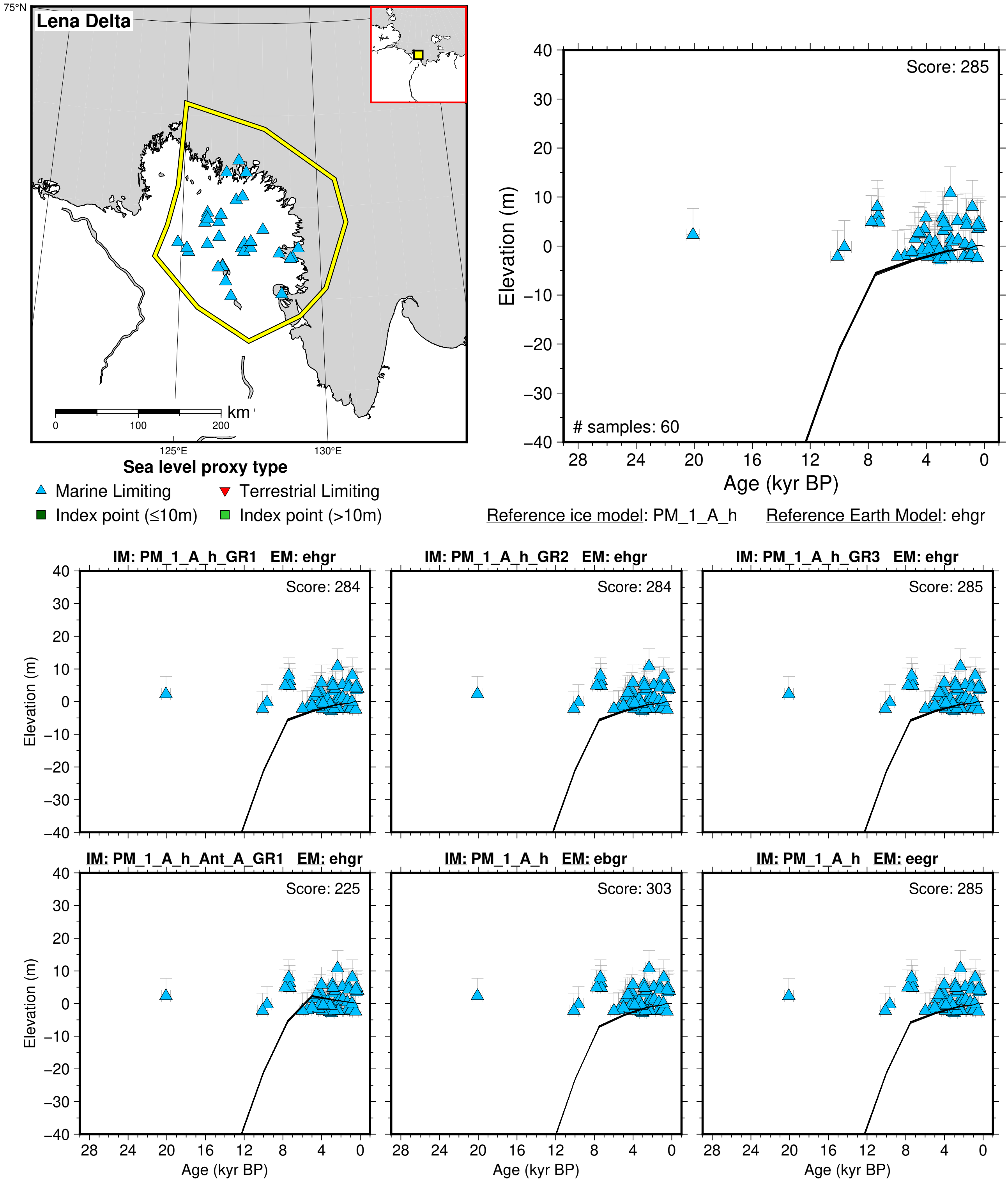

Figure 77: Paleo-sea level and comparison of six models for subregion: Western Siberia, location: Lena Delta. References: Baranskaya et al. (2018a); Makarov (2009).

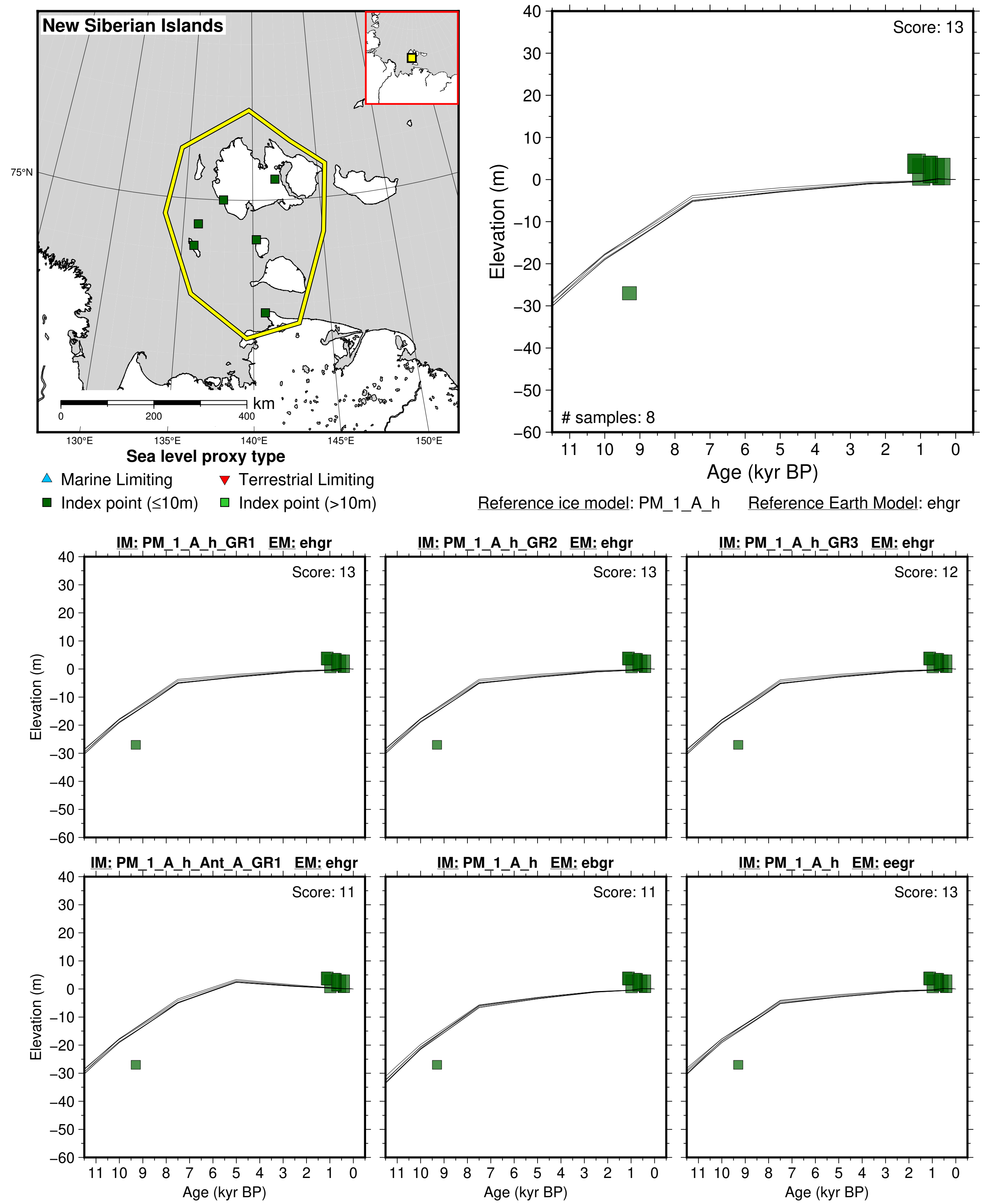

Figure 78: Paleo-sea level and comparison of six models for subregion: Western Siberia, location: New Siberian Islands. References: Anisimov et al. (2009a); Baranskaya et al. (2018a); Bolshiyanov et al. (2013); Polyakova et al. (2005).

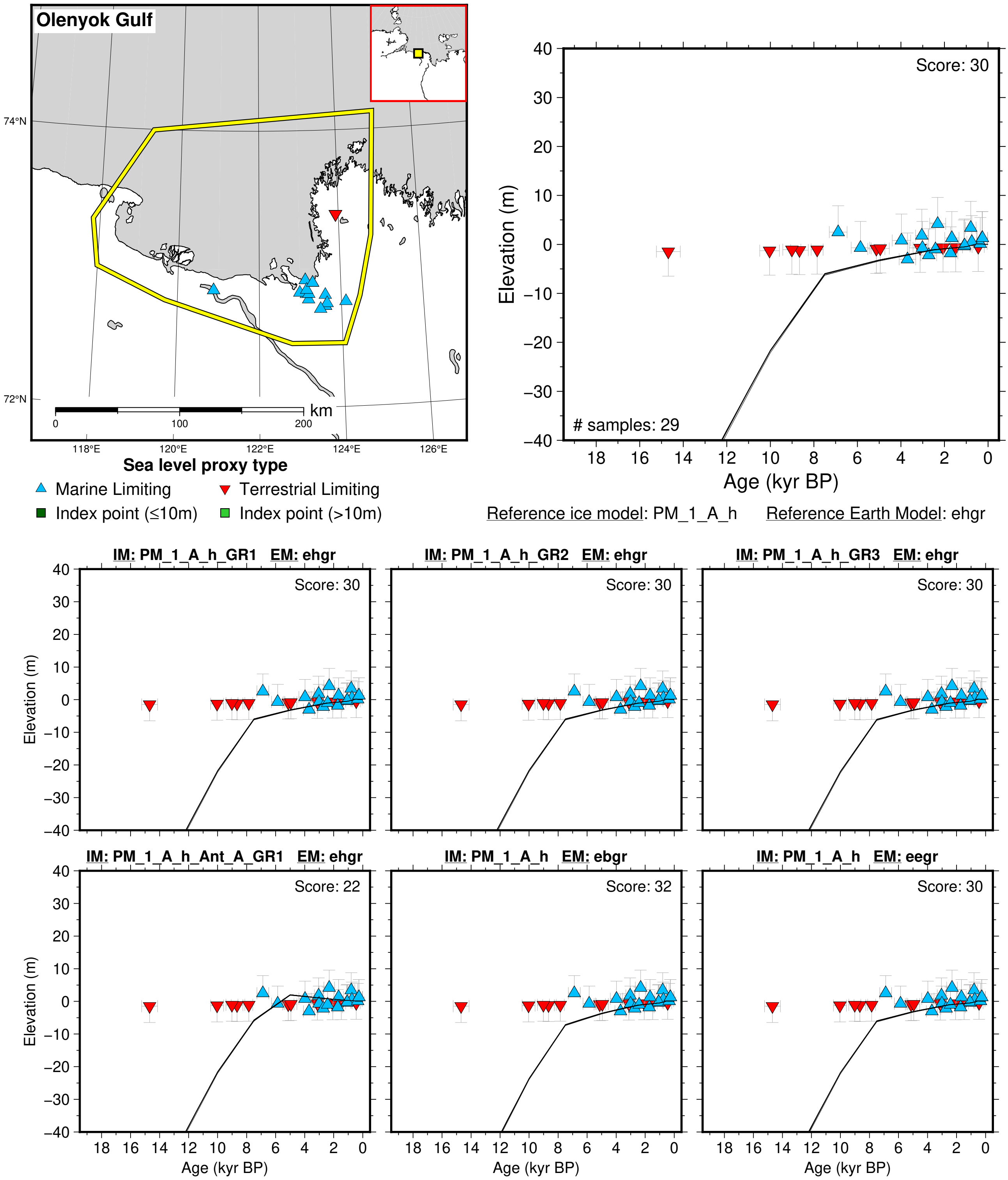

Figure 79: Paleo-sea level and comparison of six models for subregion: Western Siberia, location: Olenyok Gulf. References: Andreev et al. (2004); Baranskaya et al. (2018a); Bolshiyanov et al. (2013); Makarov (2009).

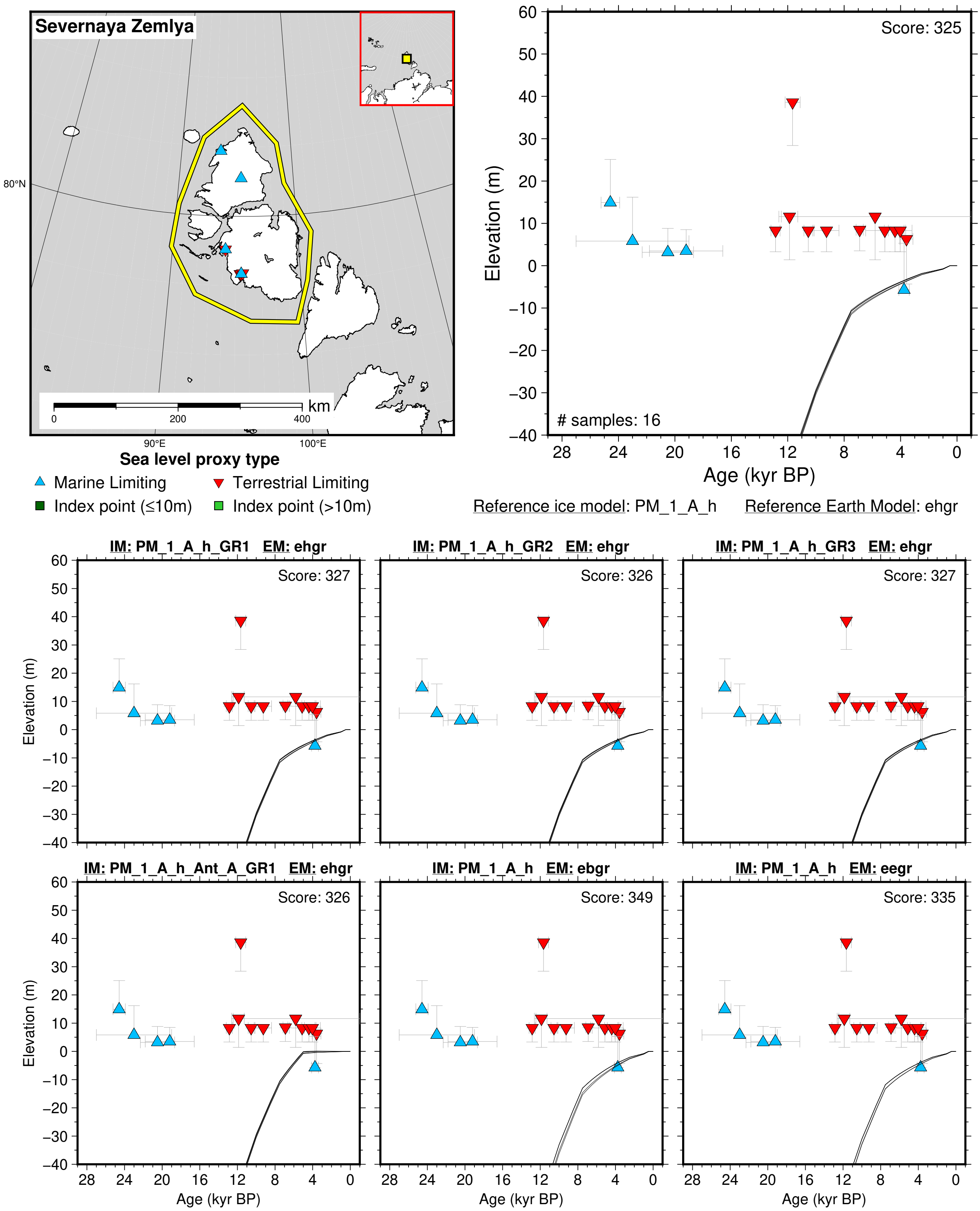

Figure 80: Paleo-sea level and comparison of six models for subregion: Western Siberia, location: Severnaya Zemlya. References: Baranskaya et al. (2018a); Bolshiyanov and Makeev (1995); Raab et al. (2003).

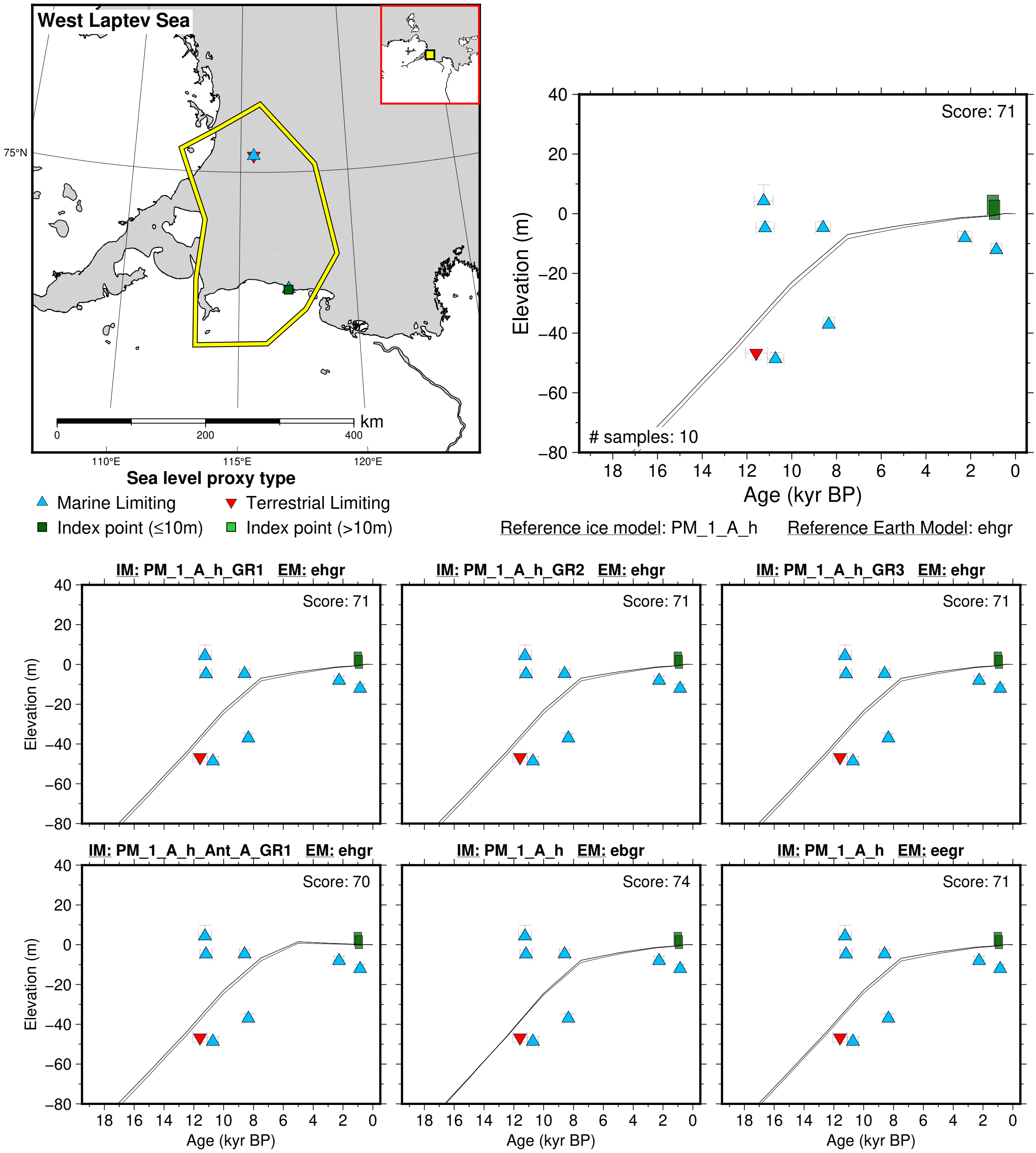

Figure 81: Paleo-sea level and comparison of six models for subregion: Western Siberia, location: West Laptev Sea. References: Baranskaya et al. (2018a); Bauch et al. (1999); Bolshiyanov et al. (2013); Winterfeld et al. (2011).

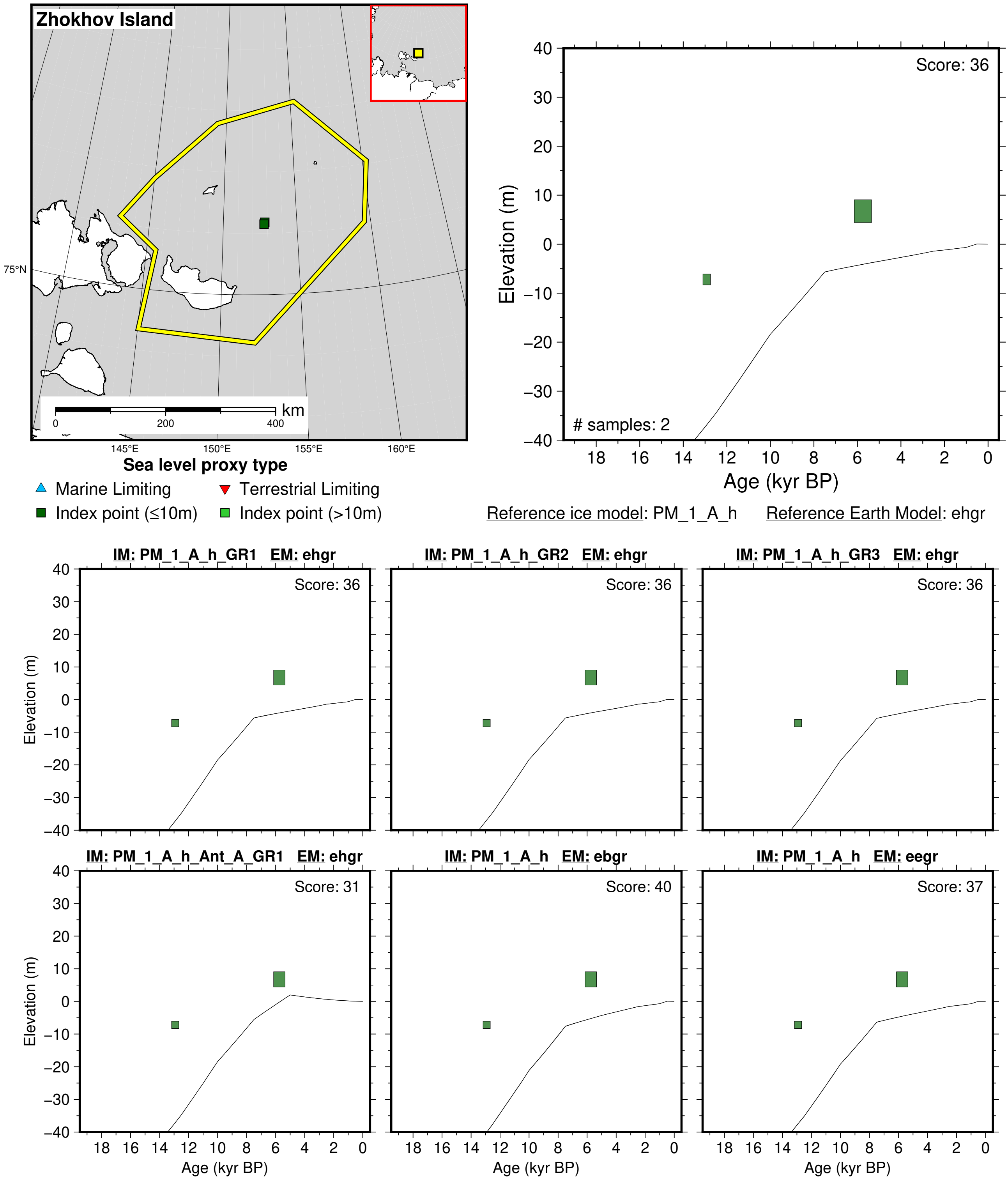

Figure 82: Paleo-sea level and comparison of six models for subregion: Western Siberia, location: Zhokhov Island. References: Anisimov et al. (2009b); Baranskaya et al. (2018a).

6.5.5 White Sea

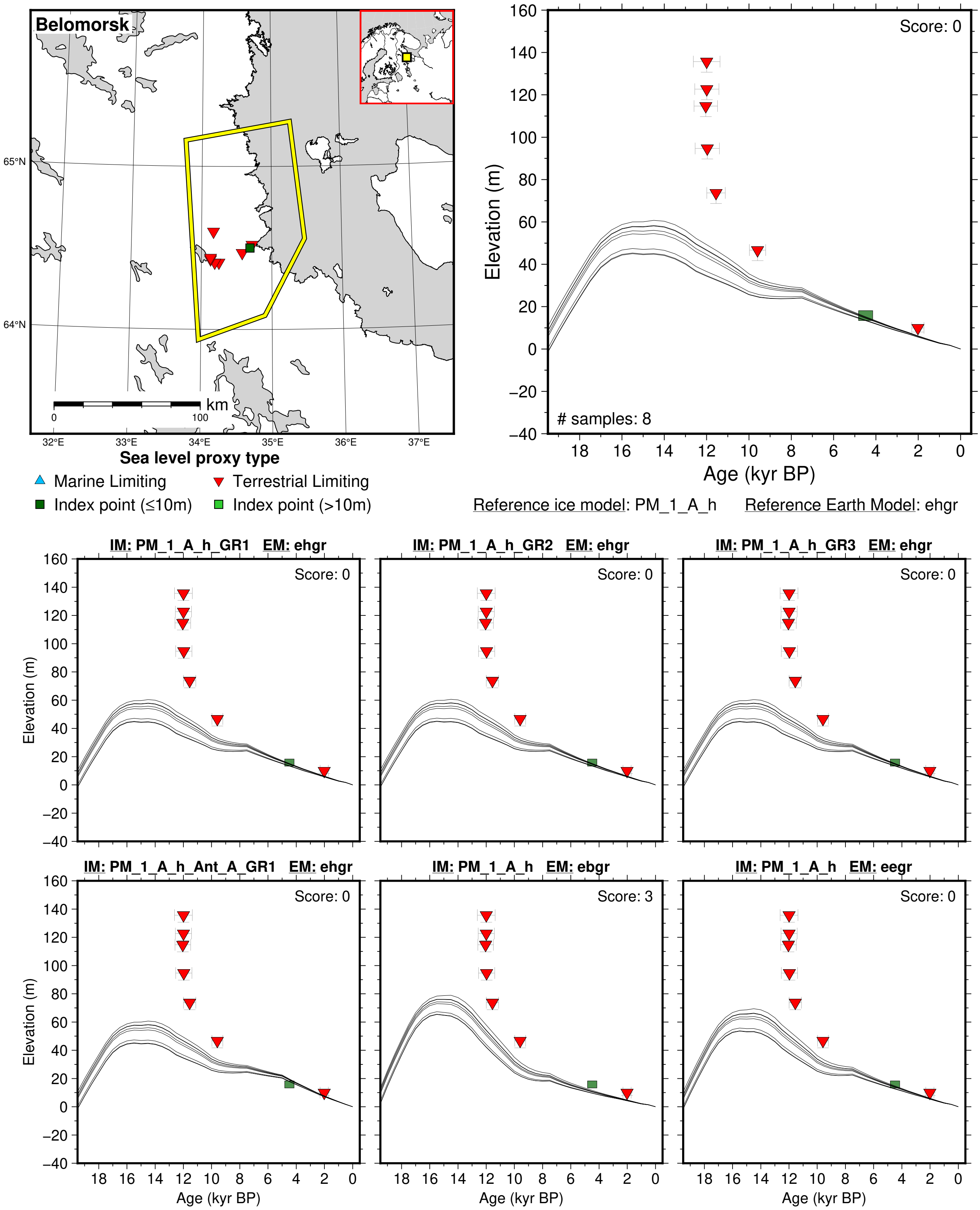

Figure 83: Paleo-sea level and comparison of six models for subregion: White Sea, location: Belomorsk. References: Baranskaya et al. (2018a); Devyatova and Liyva (1971); Koshechkin (1979); Lunkka et al. (2012).

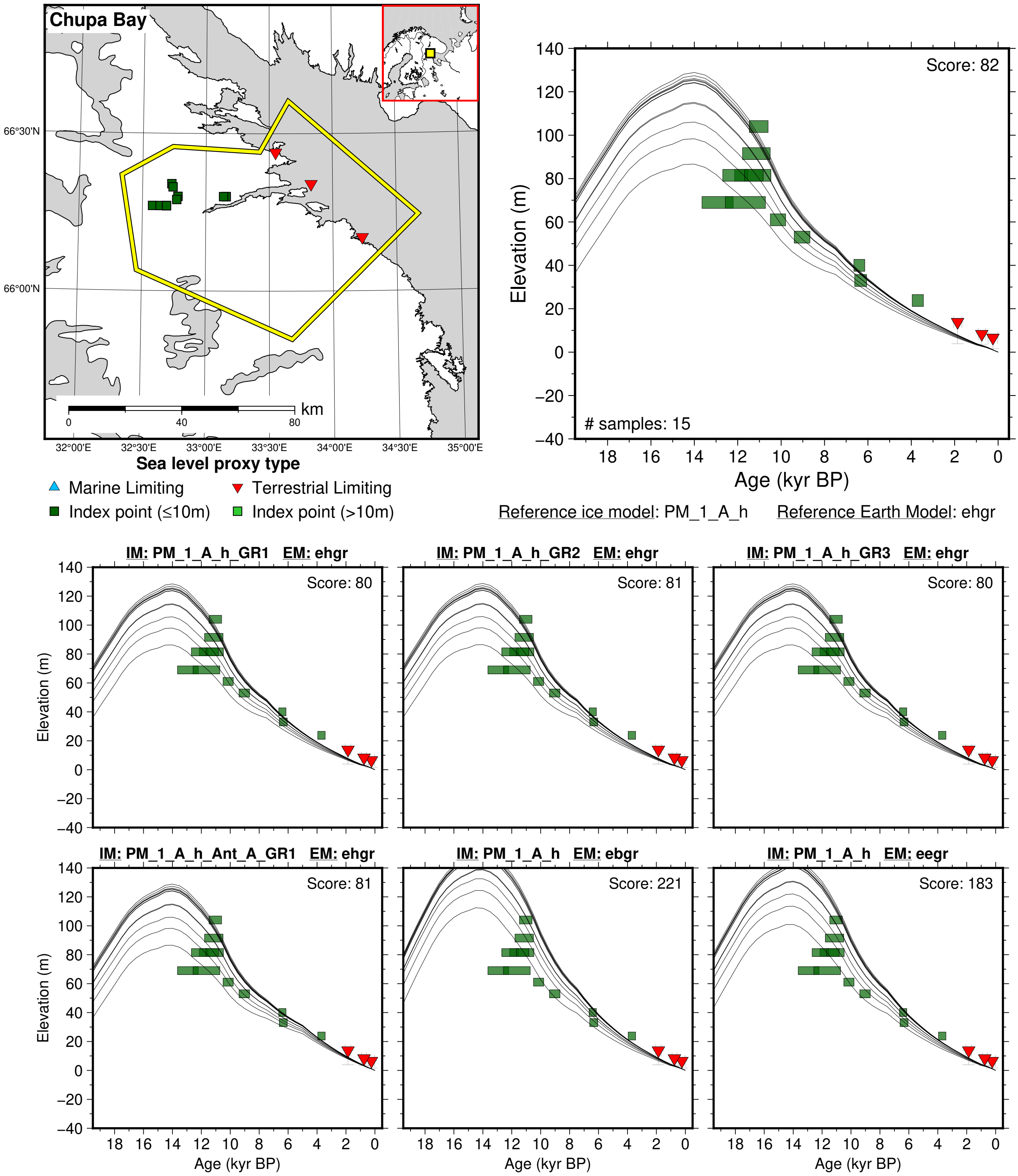

Figure 84: Paleo-sea level and comparison of six models for subregion: White Sea, location: Chupa Bay. References: Baranskaya and Romanenko (2015); Baranskaya et al. (2018a); Kolka et al. (2015).

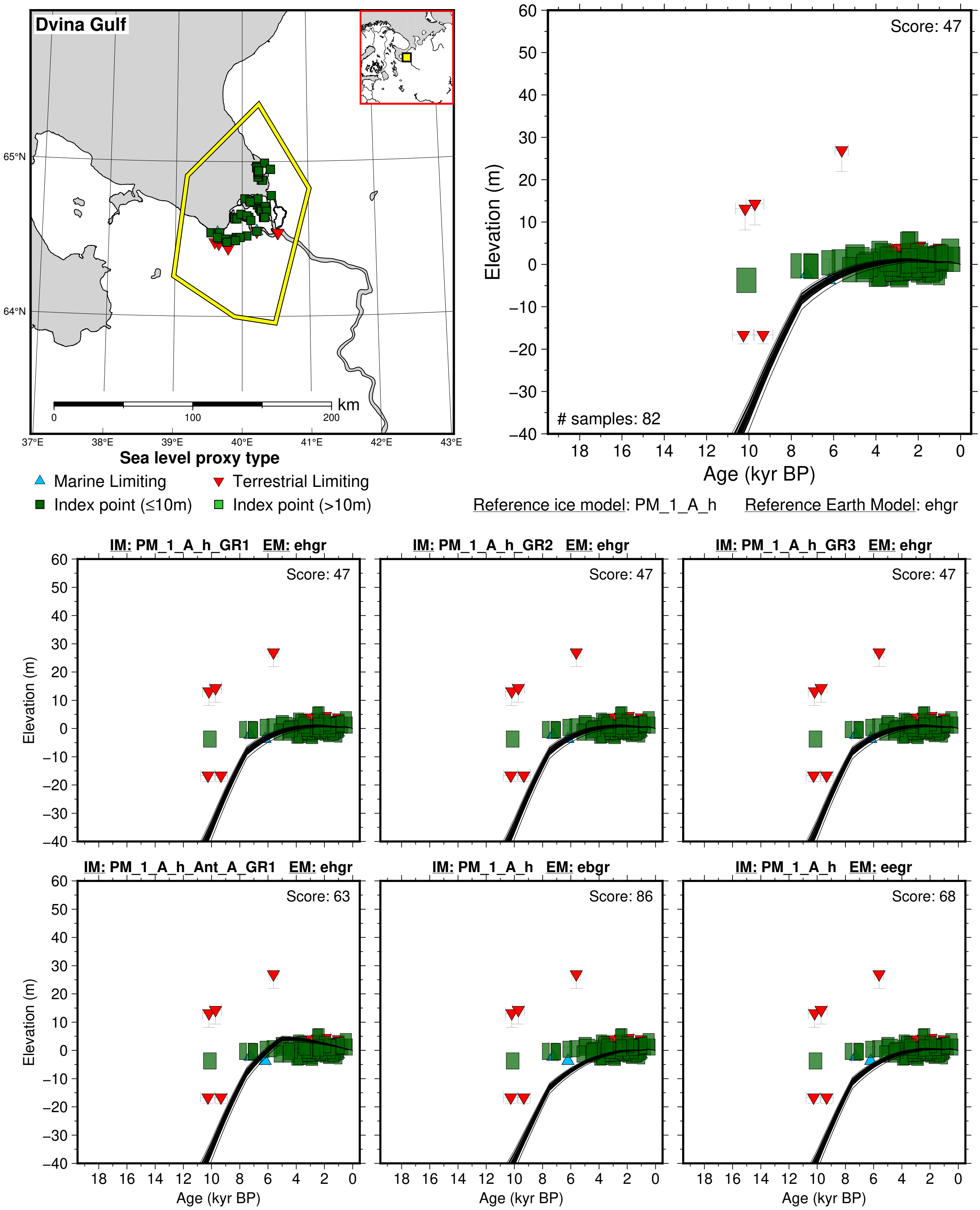

Figure 85: Paleo-sea level and comparison of six models for subregion: White Sea, location: Dvina Gulf. References: Baranskaya et al. (2018a); Koshechkin (1979); Zaretskaya et al. (2011).

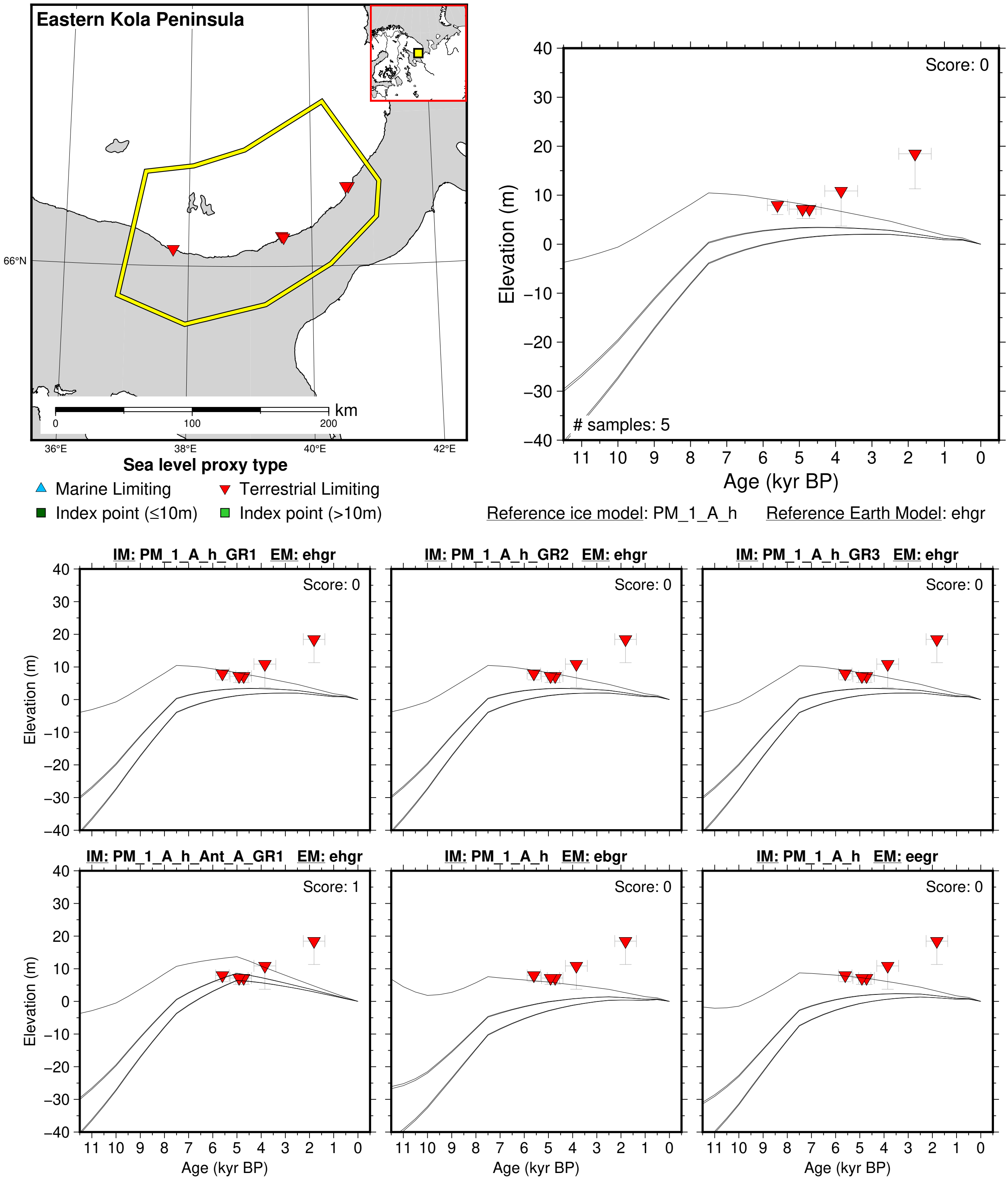

Figure 86: Paleo-sea level and comparison of six models for subregion: White Sea, location: Eastern Kola Peninsula. References: Arslanov et al. (1974); Baranskaya et al. (2018a); Koshechkin (1979).

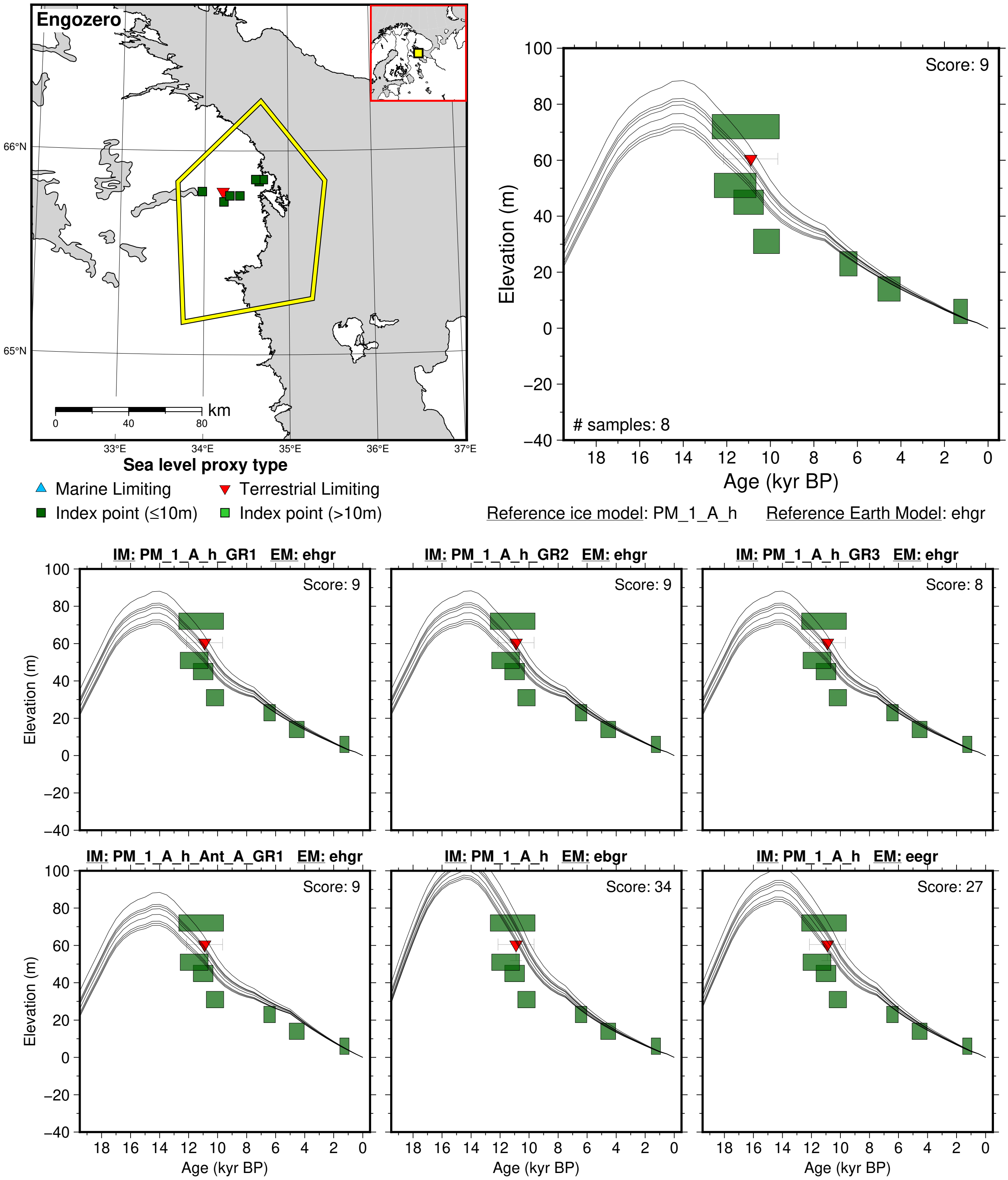

Figure 87: Paleo-sea level and comparison of six models for subregion: White Sea, location: Engozero. References: Baranskaya et al. (2018a); Kolka et al. (2013b).

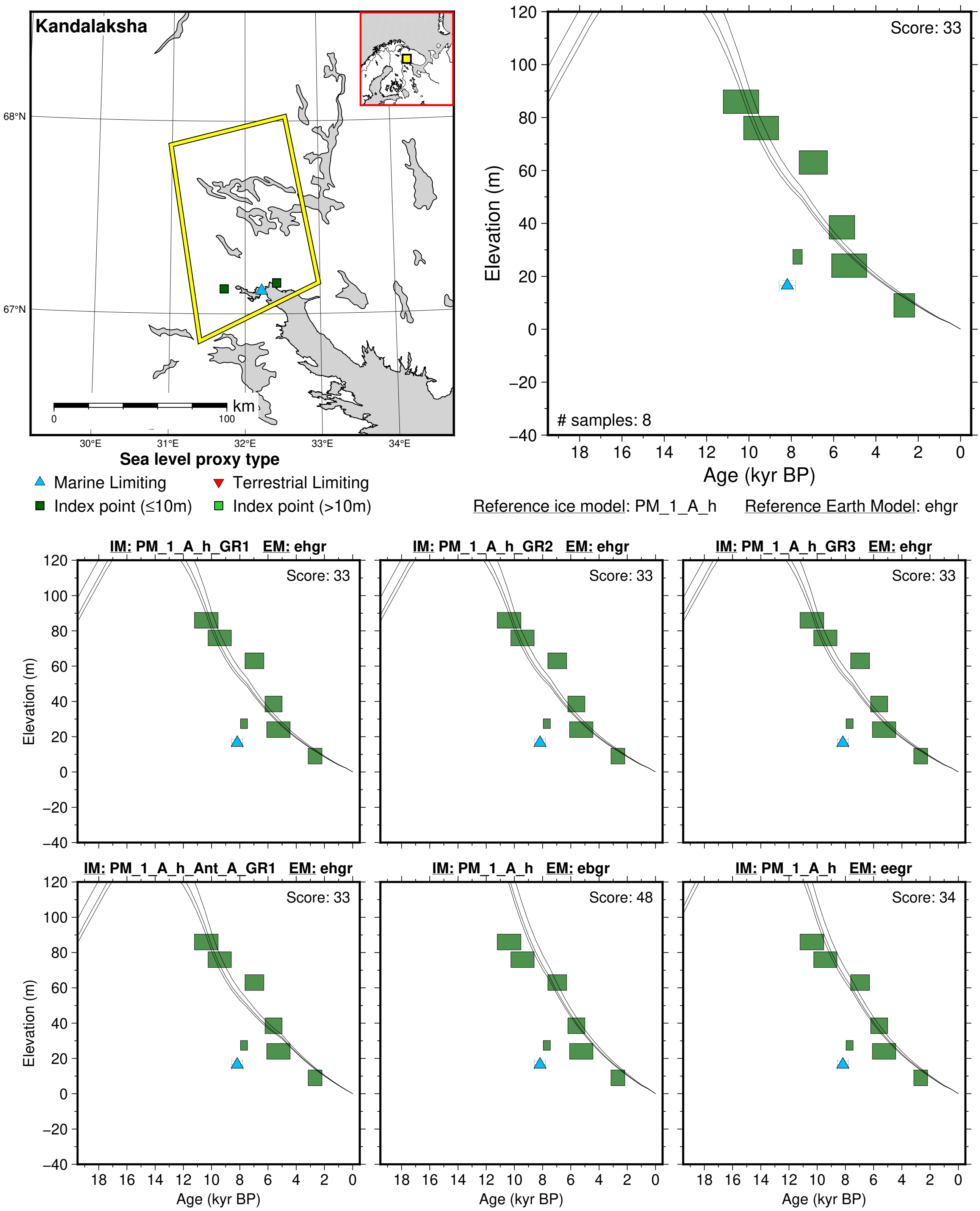

Figure 88: Paleo-sea level and comparison of six models for subregion: White Sea, location: Kandalaksha. References: Arslanov et al. (1974); Baranskaya et al. (2018a); Kolka and Korsakova (2010); Koshechkin (1979).

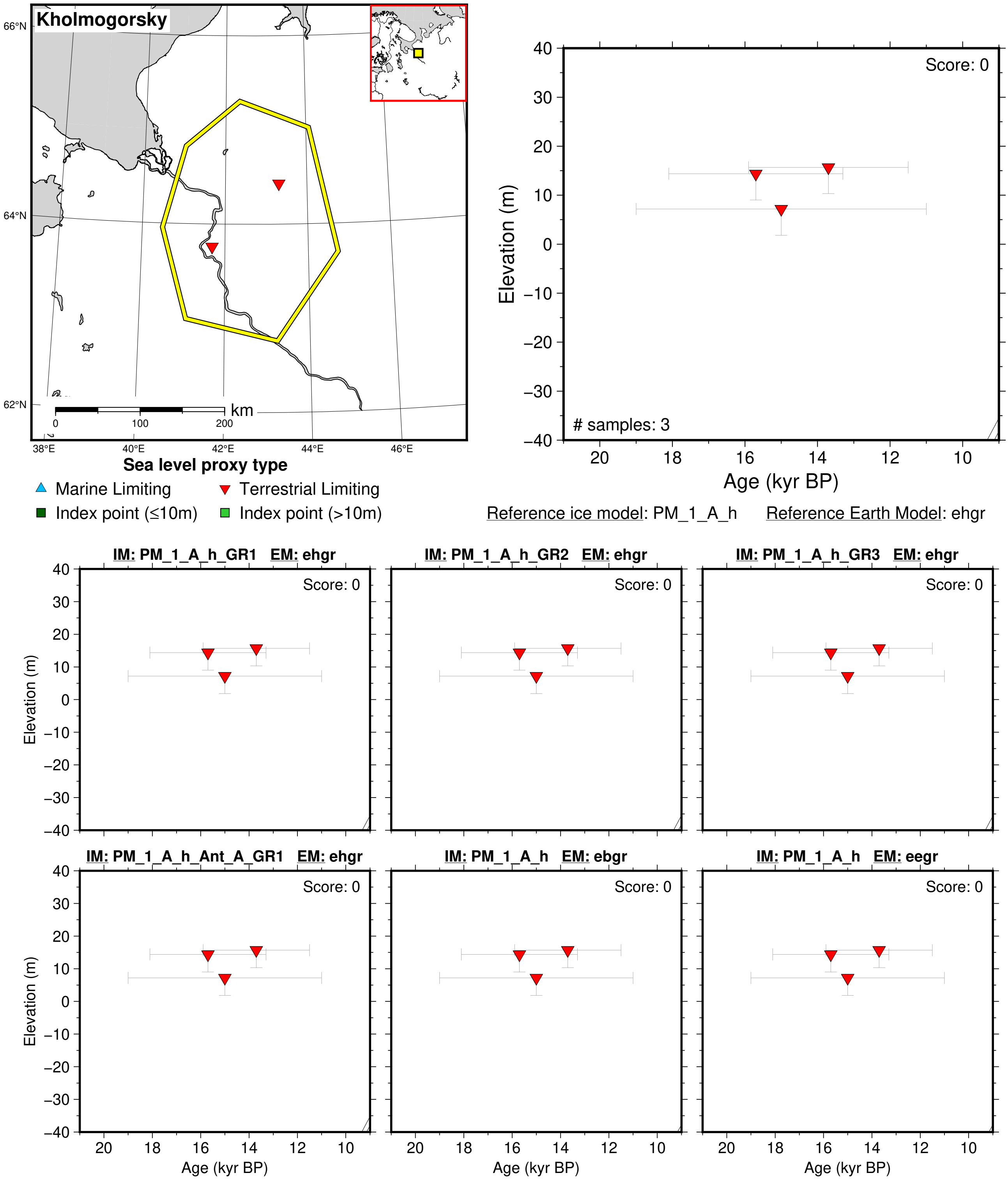

Figure 89: Paleo-sea level and comparison of six models for subregion: White Sea, location: Kholmogorsky. References: Baranskaya et al. (2018a); Larsen et al. (2006).

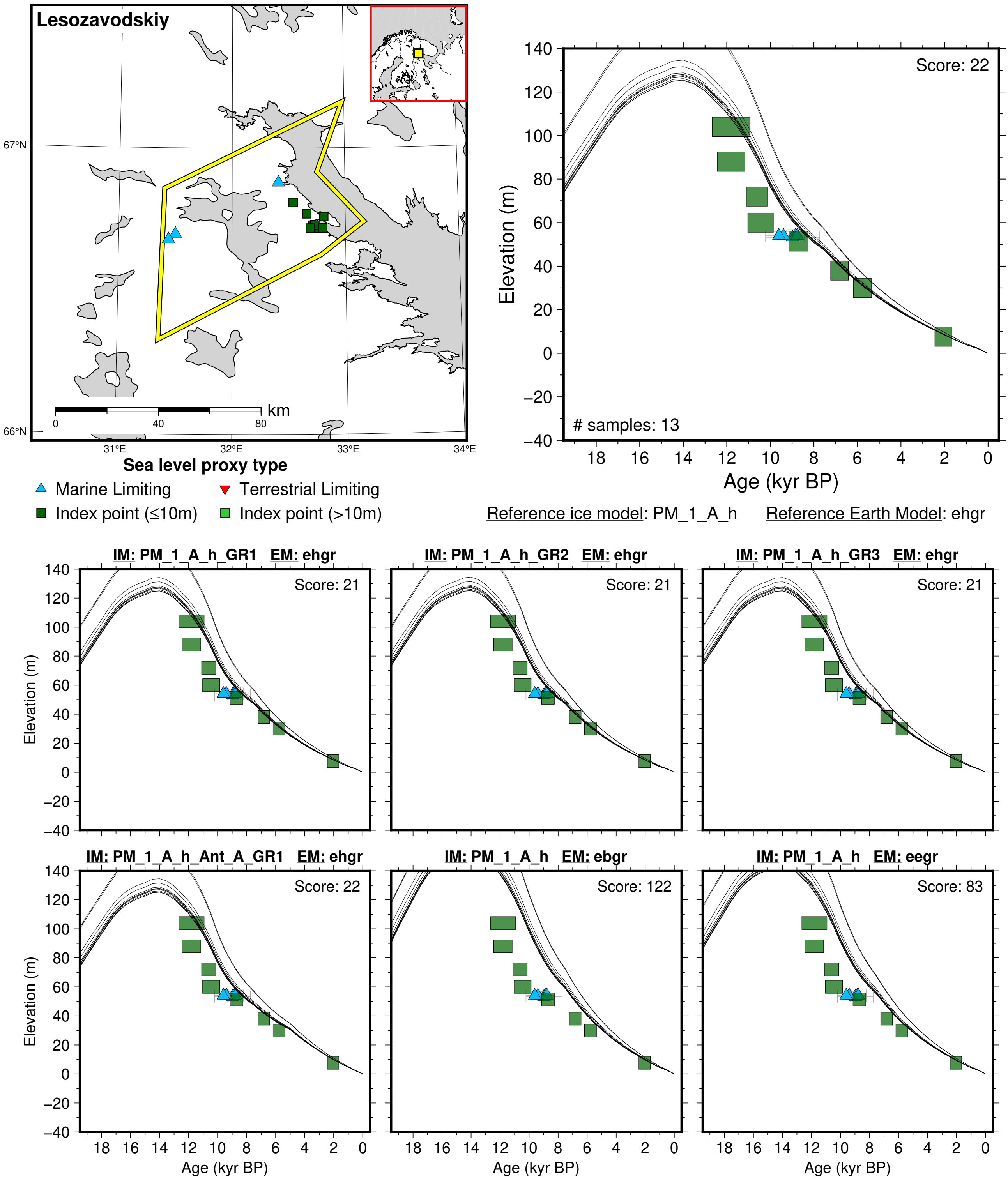

Figure 90: Paleo-sea level and comparison of six models for subregion: White Sea, location: Lesozavodskiy. References: Arslanov et al. (1974); Baranskaya et al. (2018a); Kolka et al. (2005); Koshechkin et al. (1973).

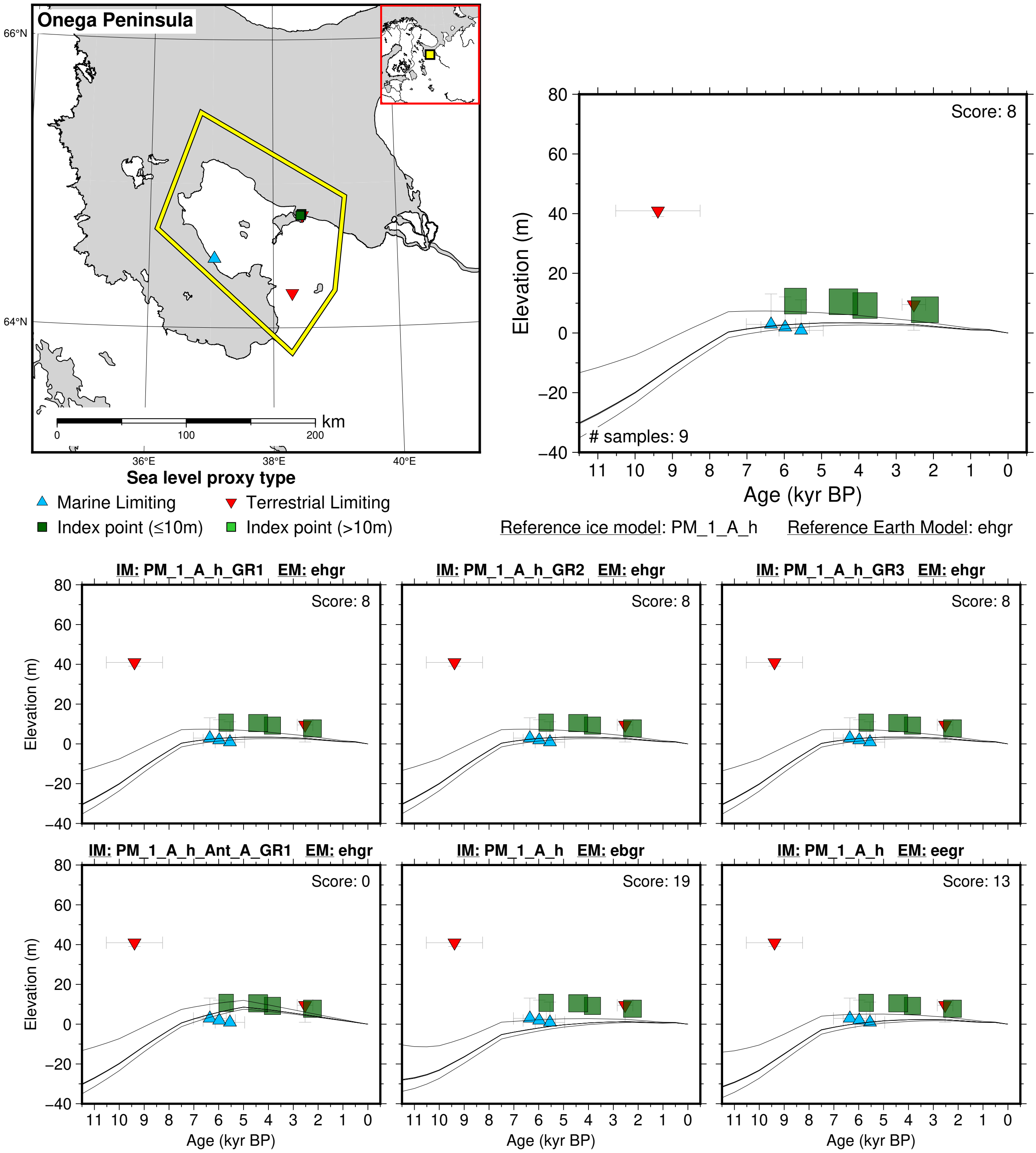

Figure 91: Paleo-sea level and comparison of six models for subregion: White Sea, location: Onega Peninsula. References: Baranskaya et al. (2018a); Boyarskaya et al. (1986); Koshechkin et al. (1973); Repkina et al. (in review).

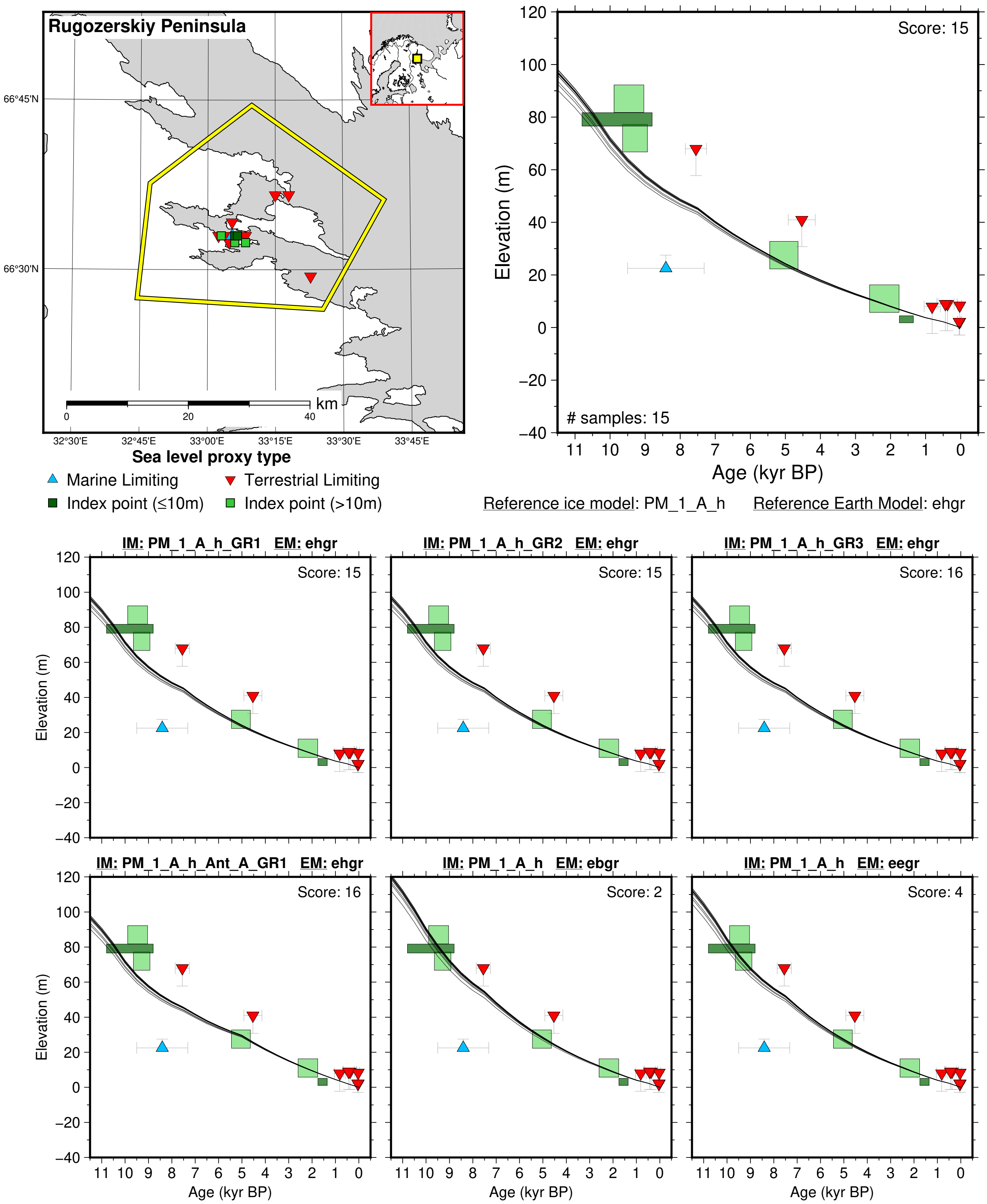

Figure 92: Paleo-sea level and comparison of six models for subregion: White Sea, location: Rugozerskiy Peninsula. References: Baranskaya (2015); Baranskaya et al. (2018a); Repkina and Romanenko (2016); Romanenko and Shilova (2012); Zaretskaya et al. (2013).

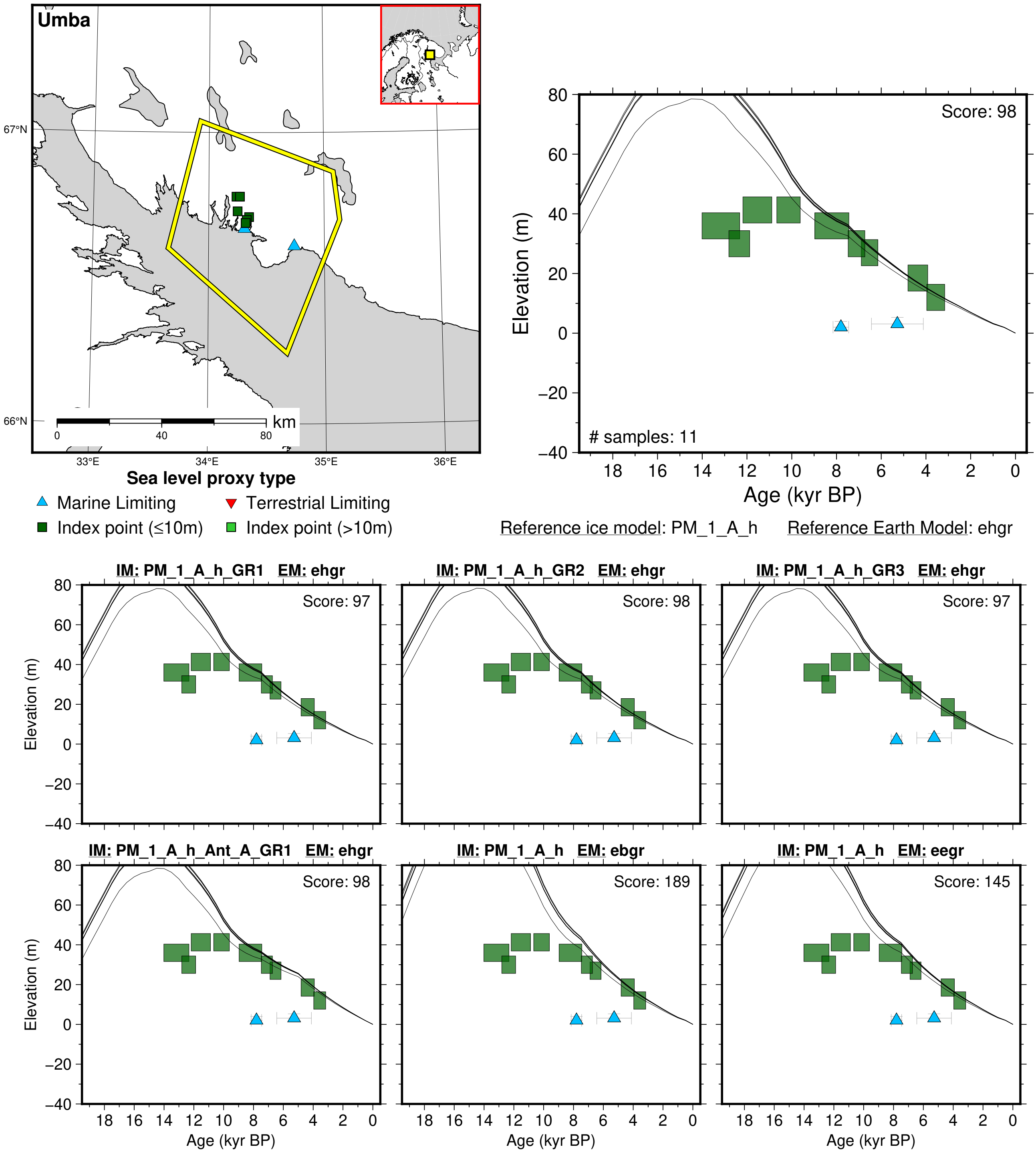

Figure 93: Paleo-sea level and comparison of six models for subregion: White Sea, location: Umba. References: Arslanov et al. (1974); Baranskaya et al. (2018a); Kolka et al. (2013a); Koshechkin (1979).

6.6 Europe

6.6.1 Gulfs Of Riga - Finland

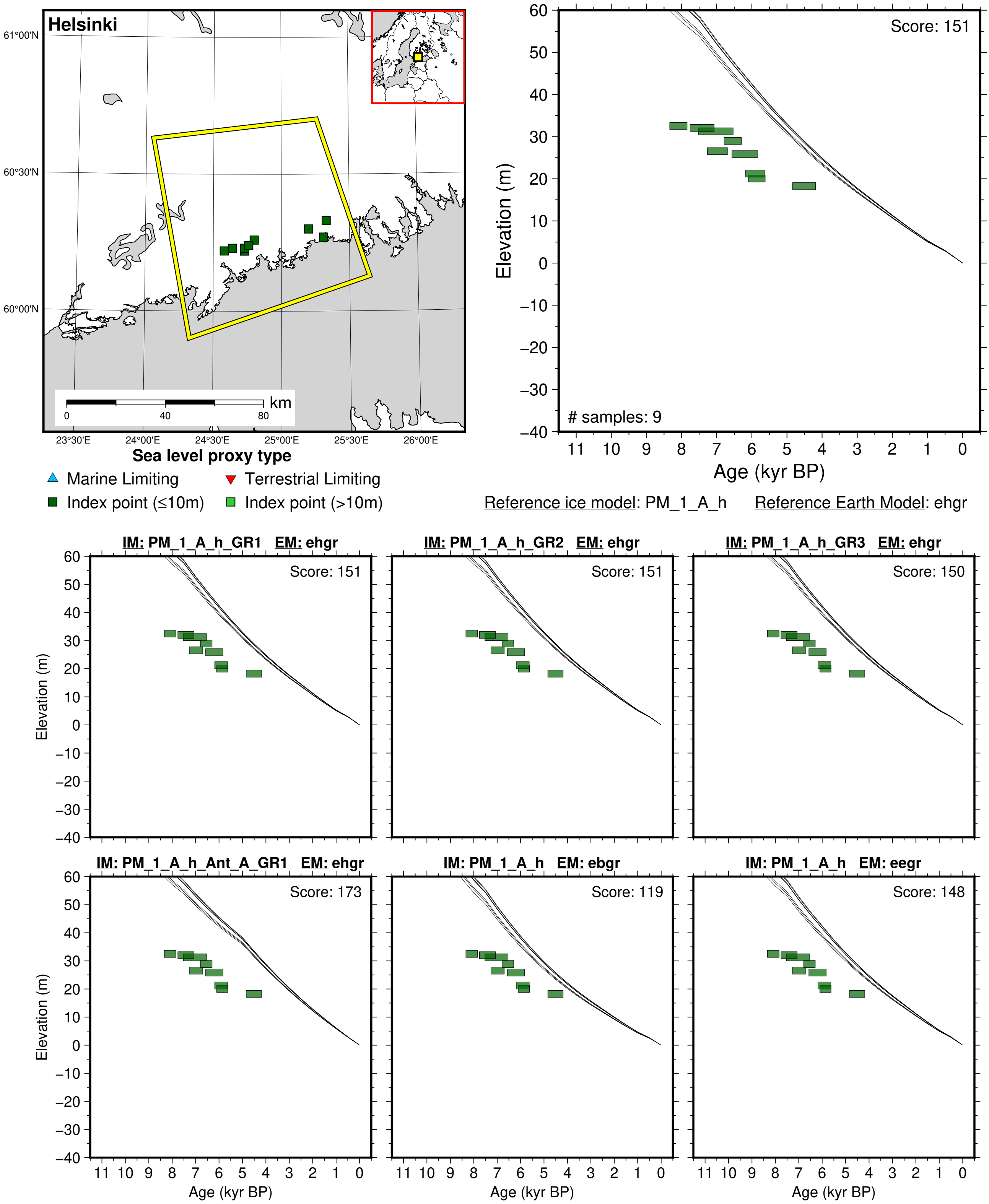

Figure 94: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: Helsinki. References: Alhonen (1972); Alhonen et al. (1978); Hyvärinen (1979, 1982, 1984); Rosentau et al. (2021); Seppä et al. (2000).

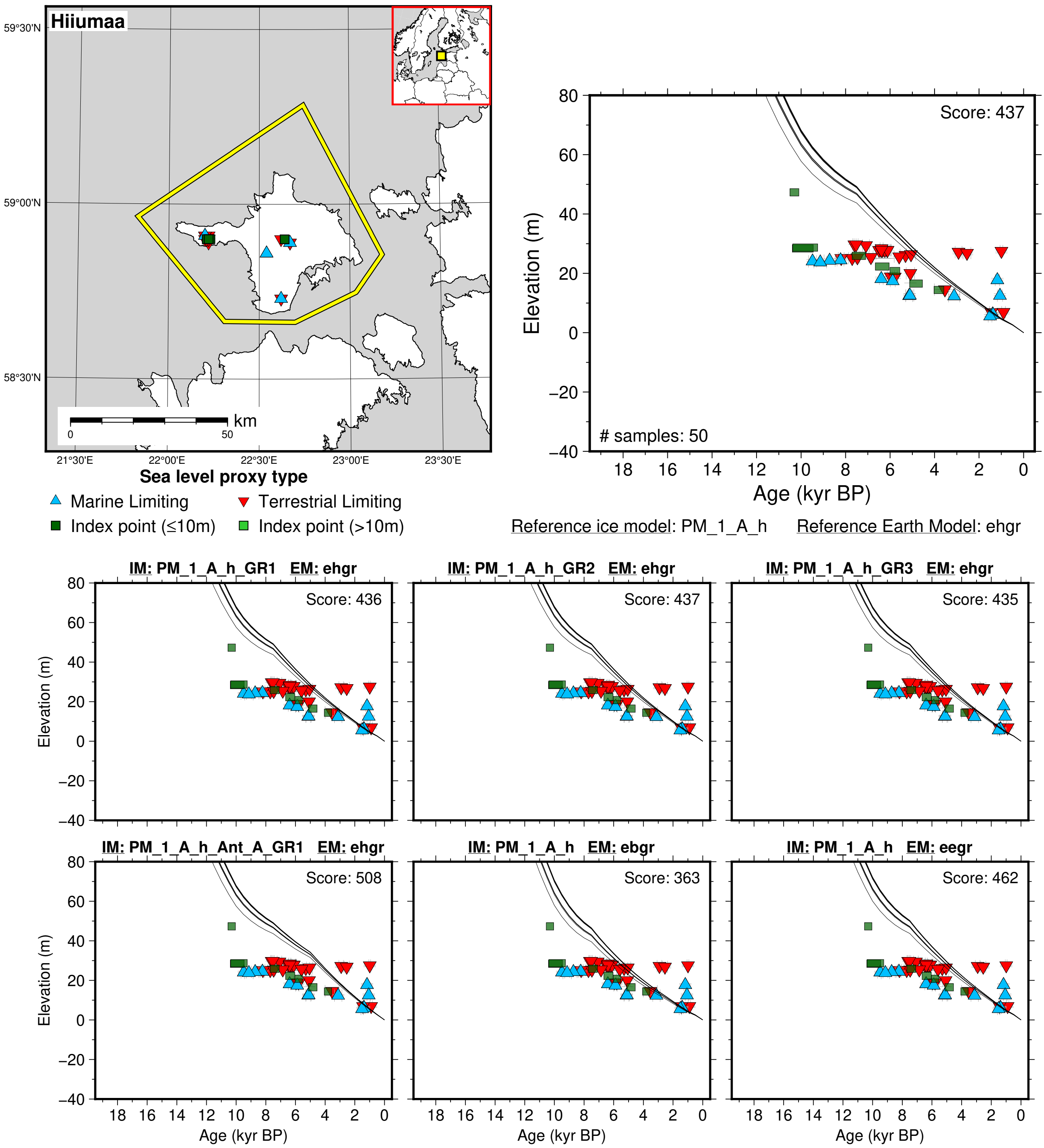

Figure 95: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: Hiiumaa. References: Kriiska (2002); Kriiska and Lõugas (1999); Kriiska et al. (2005); Königsson et al. (1998); Liiva et al. (1966); Rosentau et al. (2020, 2021); Sarv (1981); Vassiljev et al. (2015).

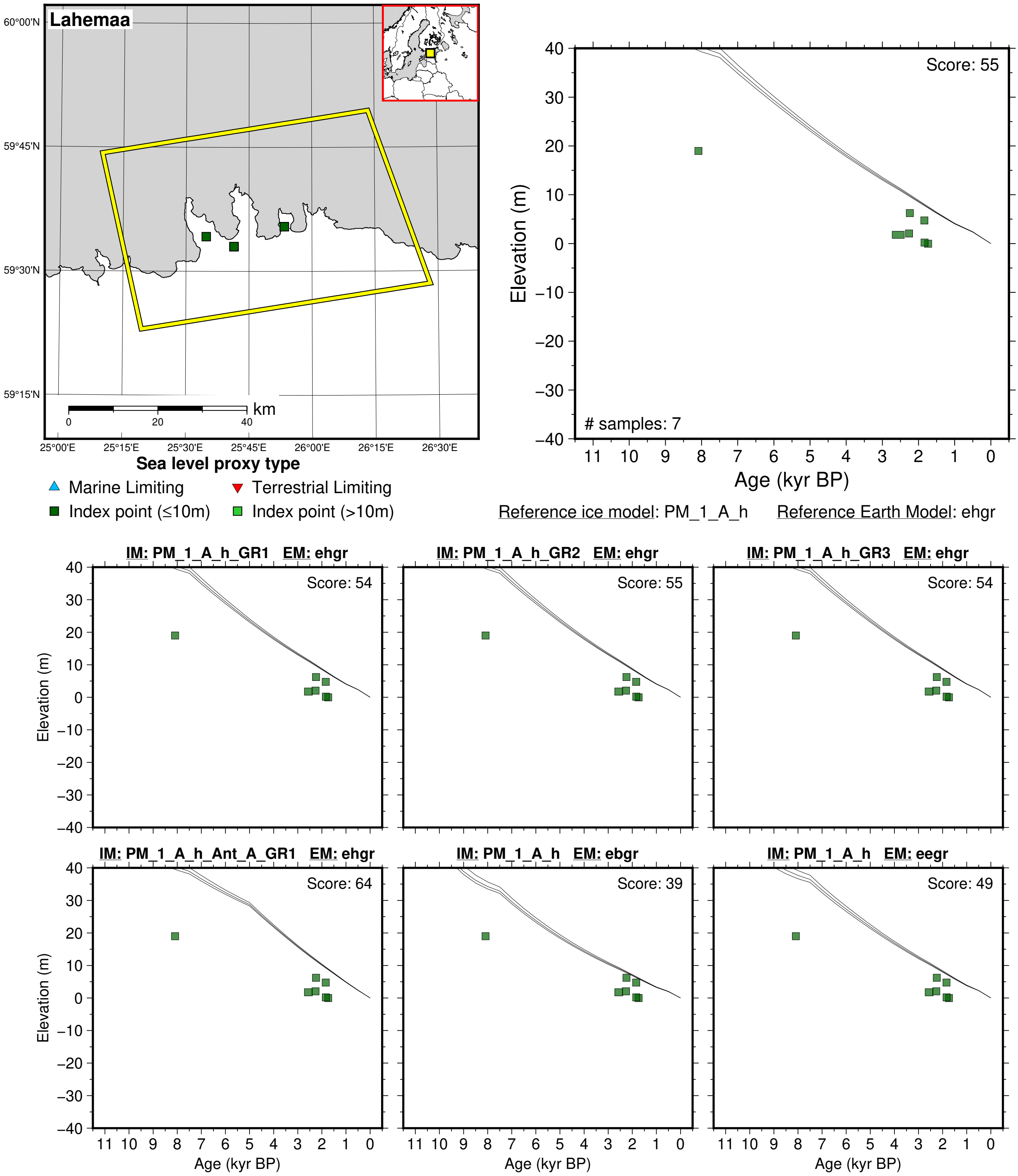

Figure 96: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: Lahemaa. References: Grudzinska et al. (2013); Muru et al. (2017); Rosentau et al. (2021); Saarse et al. (2009).

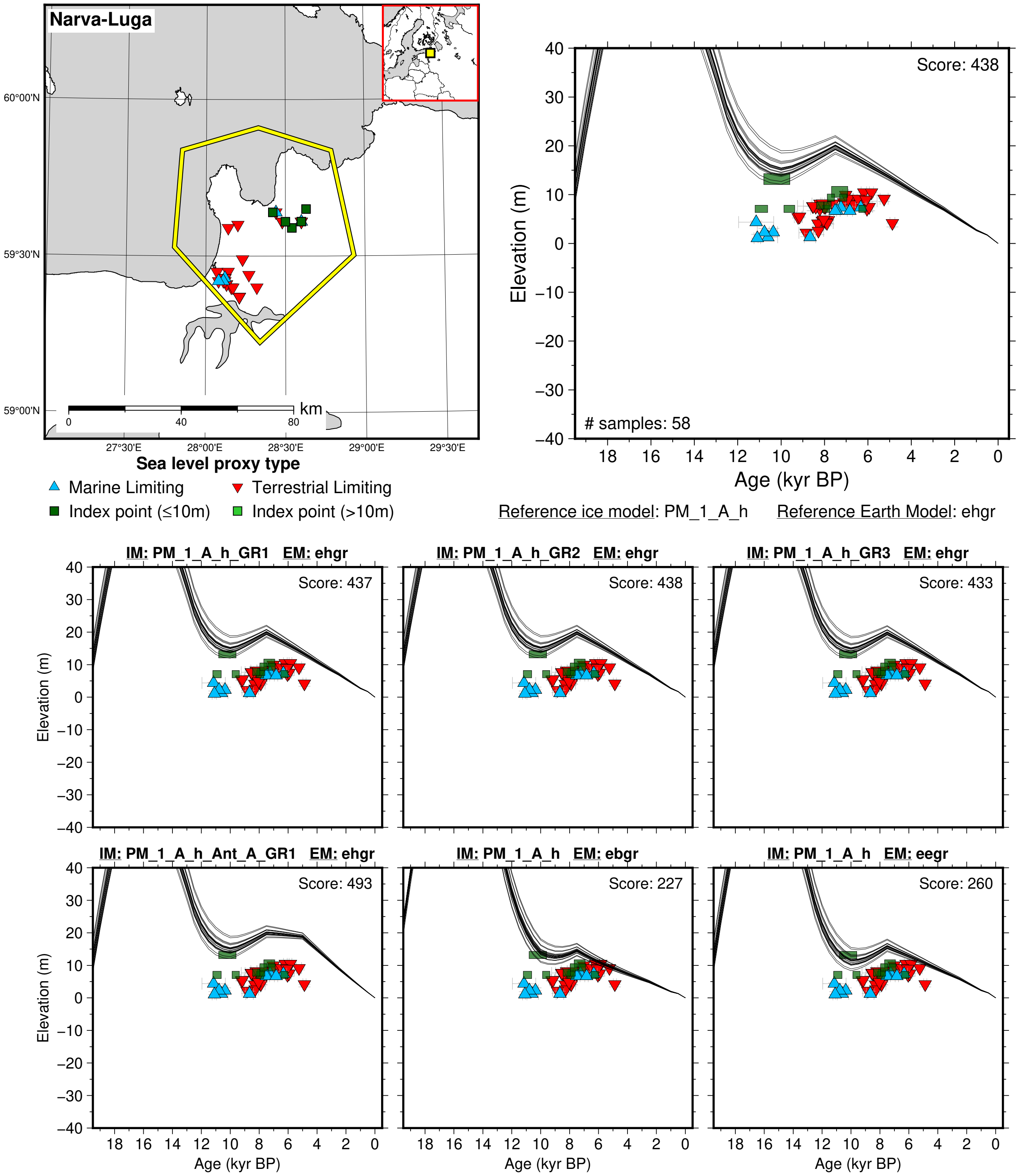

Figure 97: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: Narva-Luga. References: Jaanits and Liiva (1973); Kessel (1963); Kriiska (1995, 1996); Lepland et al. (1996); Rosentau et al. (2013, 2021); Saarse et al. (2003); Sandgren et al. (2004).

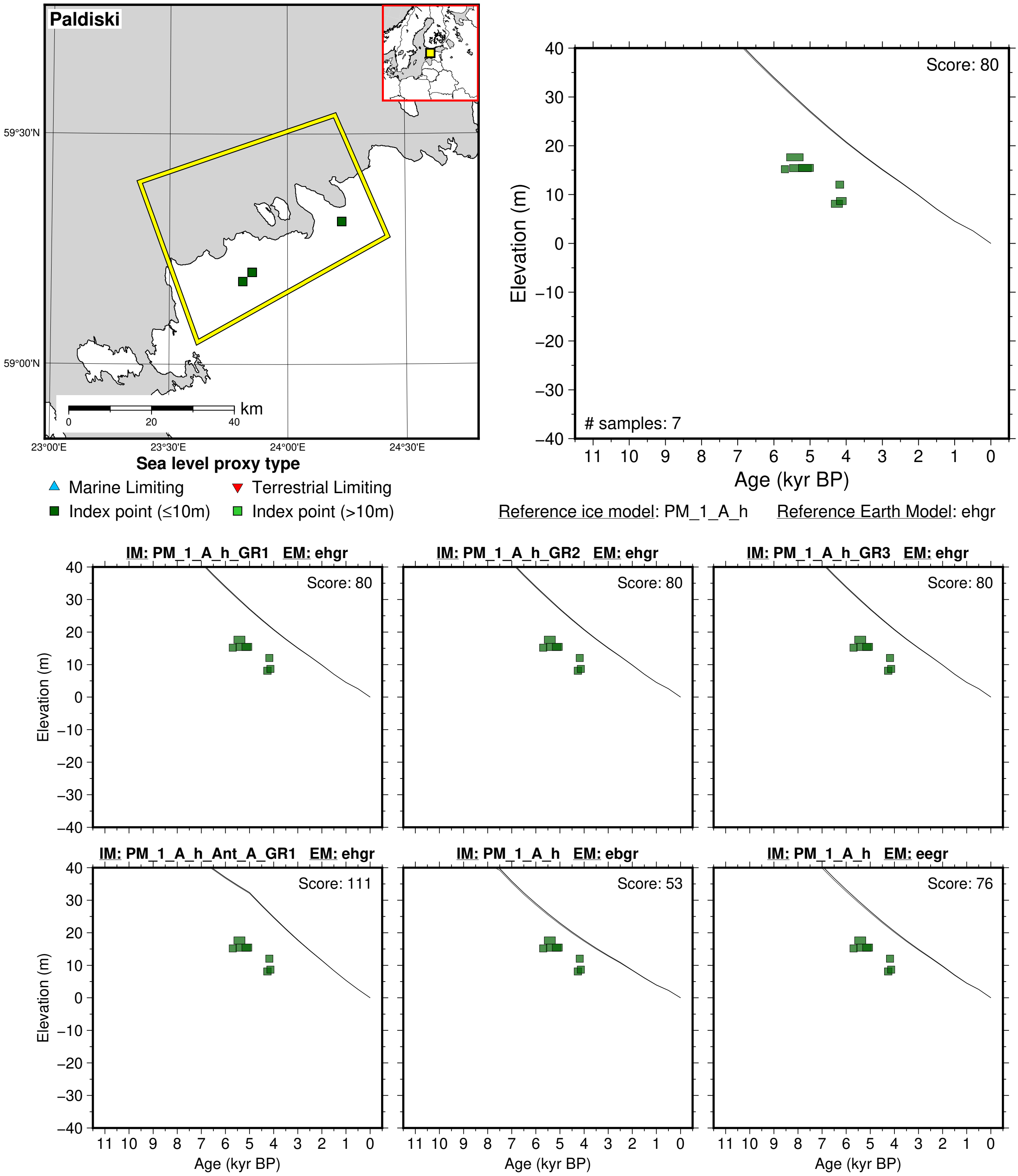

Figure 98: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: Paldiski. References: Grudzinska et al. (2013); Muru et al. (2017); Rosentau et al. (2021).

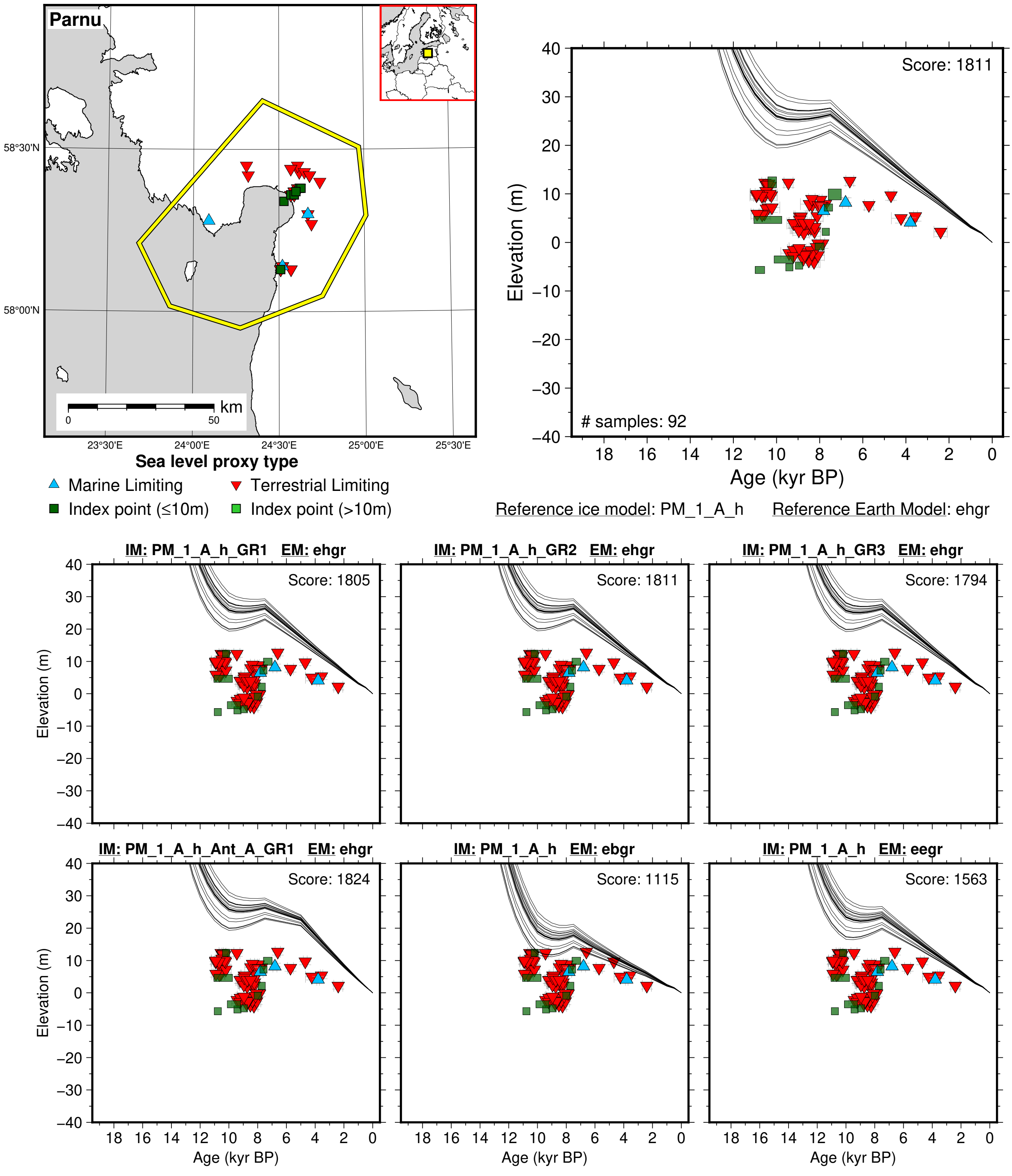

Figure 99: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: Parnu. References: H. (1975); Habicht et al. (2017); Haila and Raukas (1992); Hyvärinen et al. (1992); Ilves et al. (1974); Jaanits and Jaanits (1978); Jonuks (2013, 2016); Kessel and Punning (1969a,b, 1974); Kriiska (2001); Kriiska and Lõugas (2009); Kriiska et al. (2002); Nirgi et al. (2020); Orru et al. (1992); Poska and Veski (1999); Punning et al. (1971, 1977); Raukas et al. (1995, 1999); Rosentau et al. (2011, 2021); Saarse et al. (2003); Veski (1998); Veski et al. (2005).

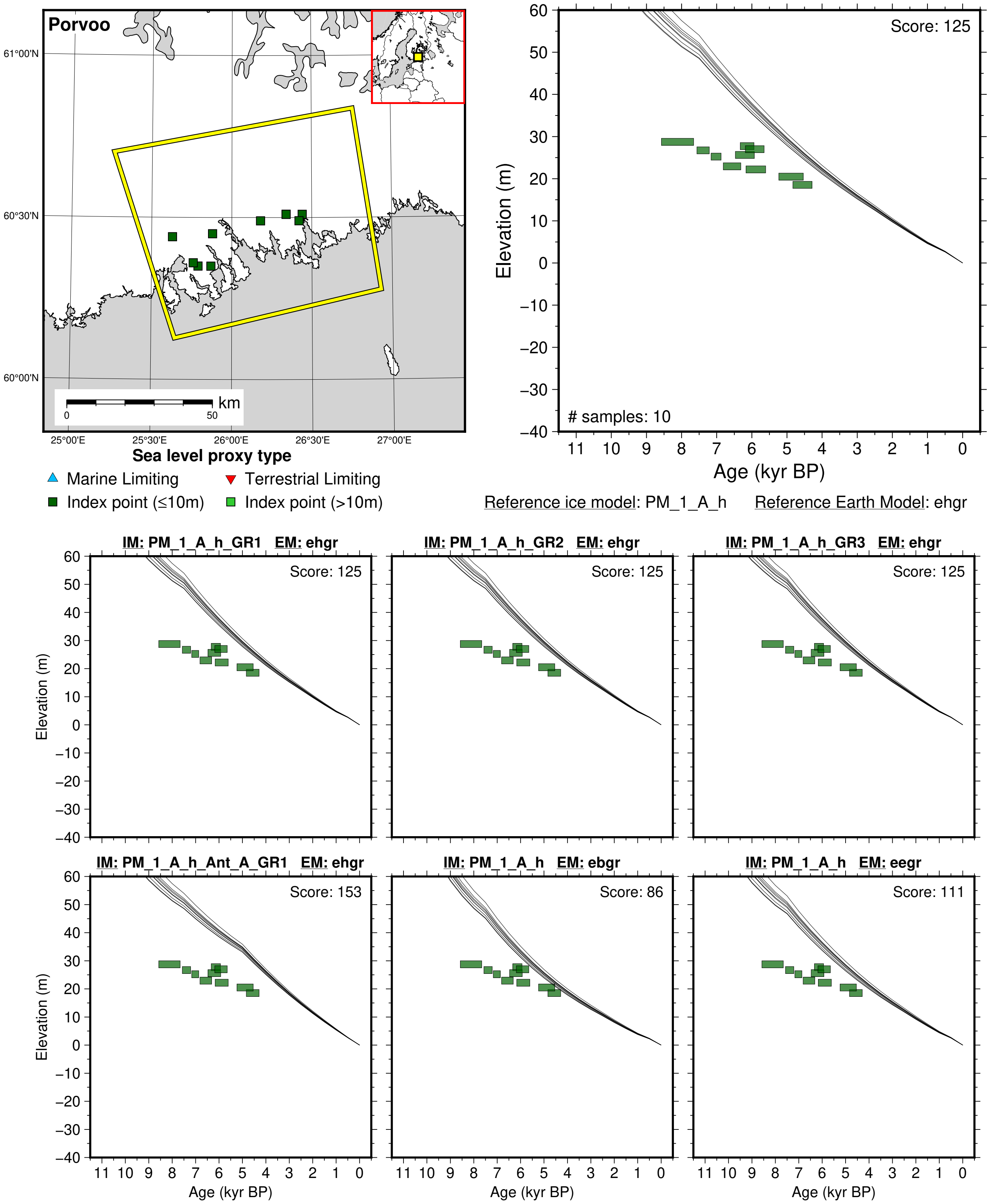

Figure 100: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: Porvoo. References: Donner and Eronen (1981); Eronen (1974); Haila et al. (1991); Jungner and Sonninen (1983); Miettinen et al. (1999); Rosentau et al. (2021).

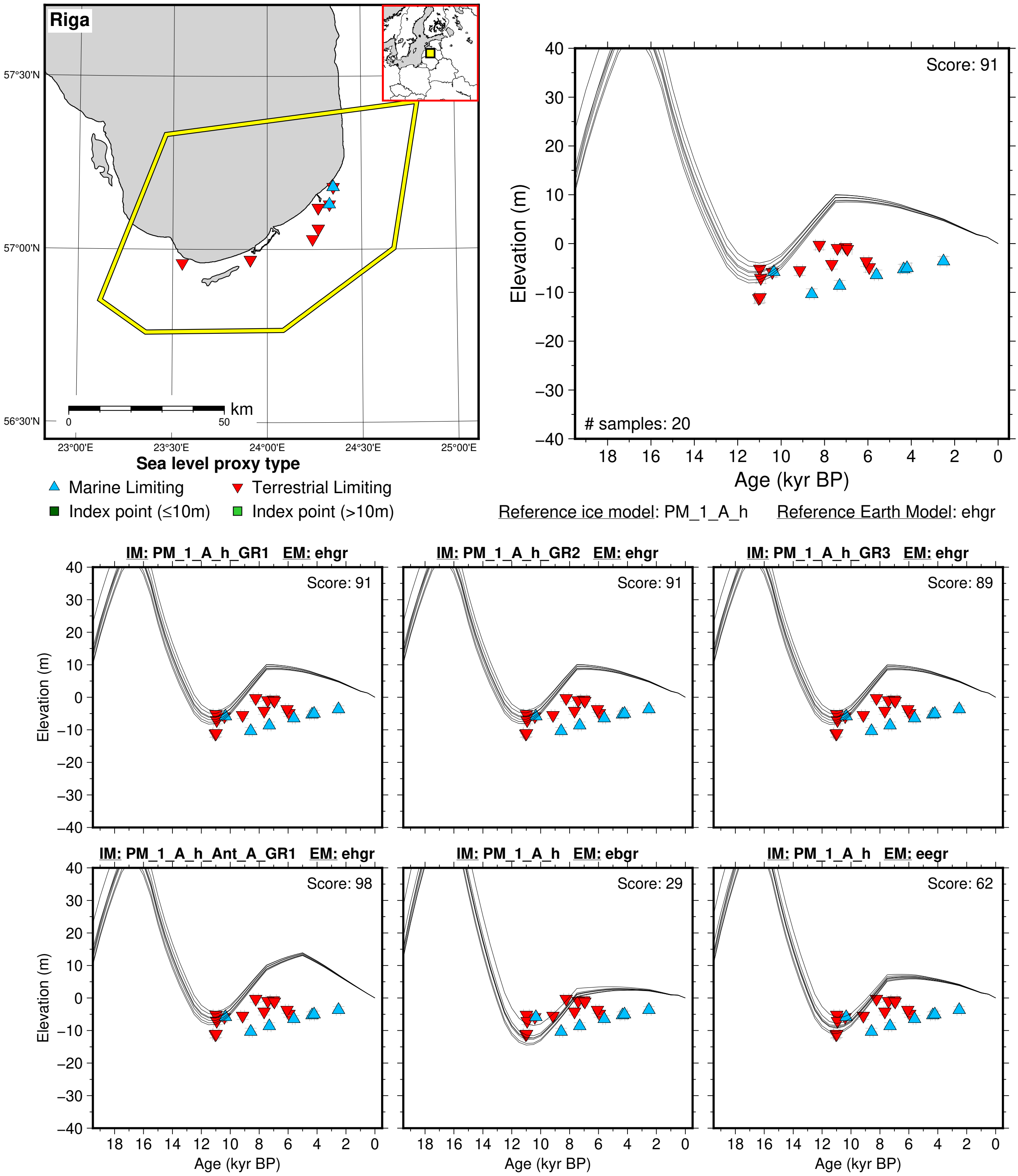

Figure 101: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: Riga. References: Eberhards (2008); Grudzinska (2015); Grudzinska et al. (2017); Rosentau et al. (2021).

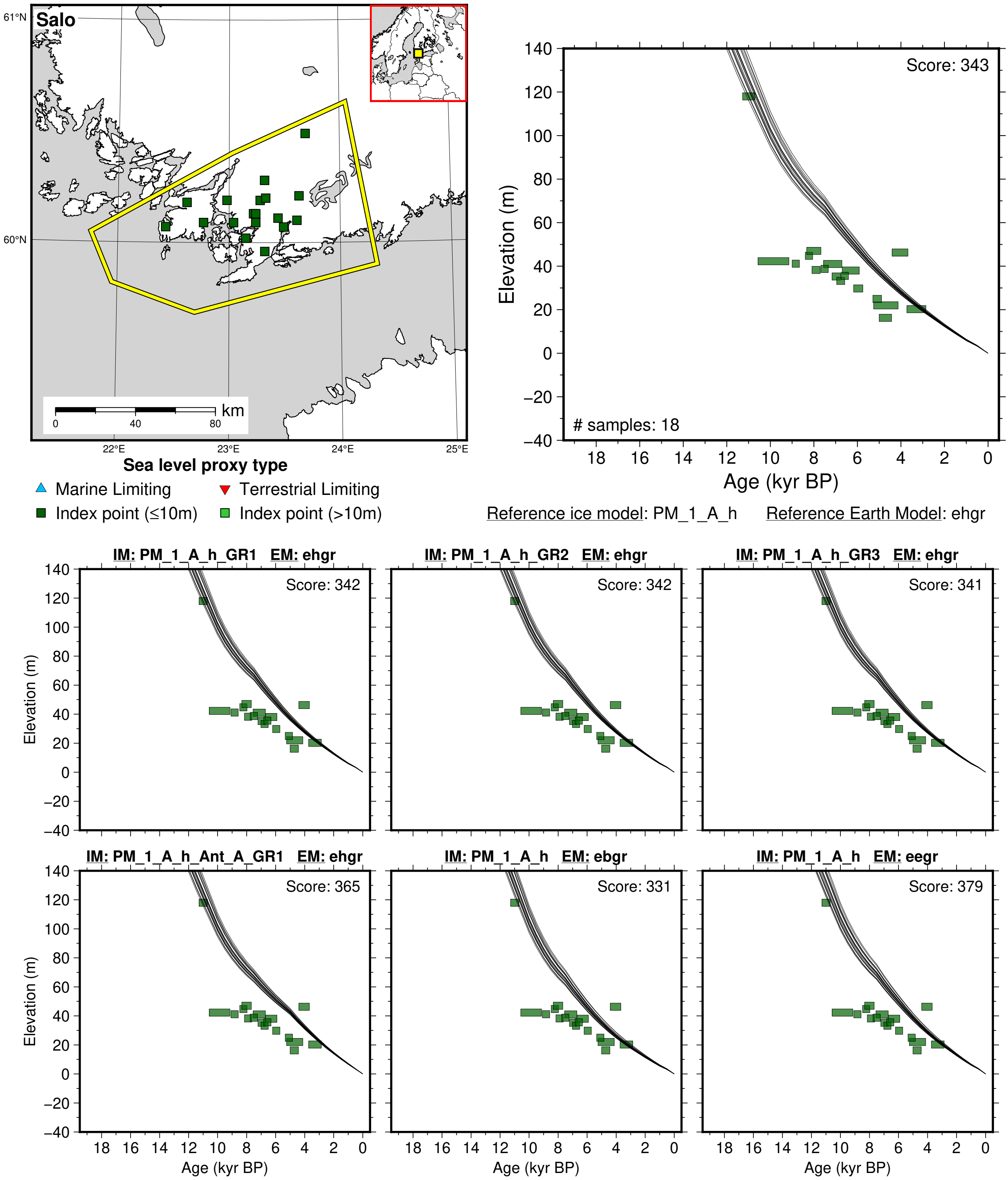

Figure 102: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: Salo. References: Eronen (1974); Eronen et al. (1993, 2001); Glückert (1976, 1978b); Leino (1973); Ristaniemi and Glückert (1988); Rosentau et al. (2021); Tolonen and Tolonen (1988).

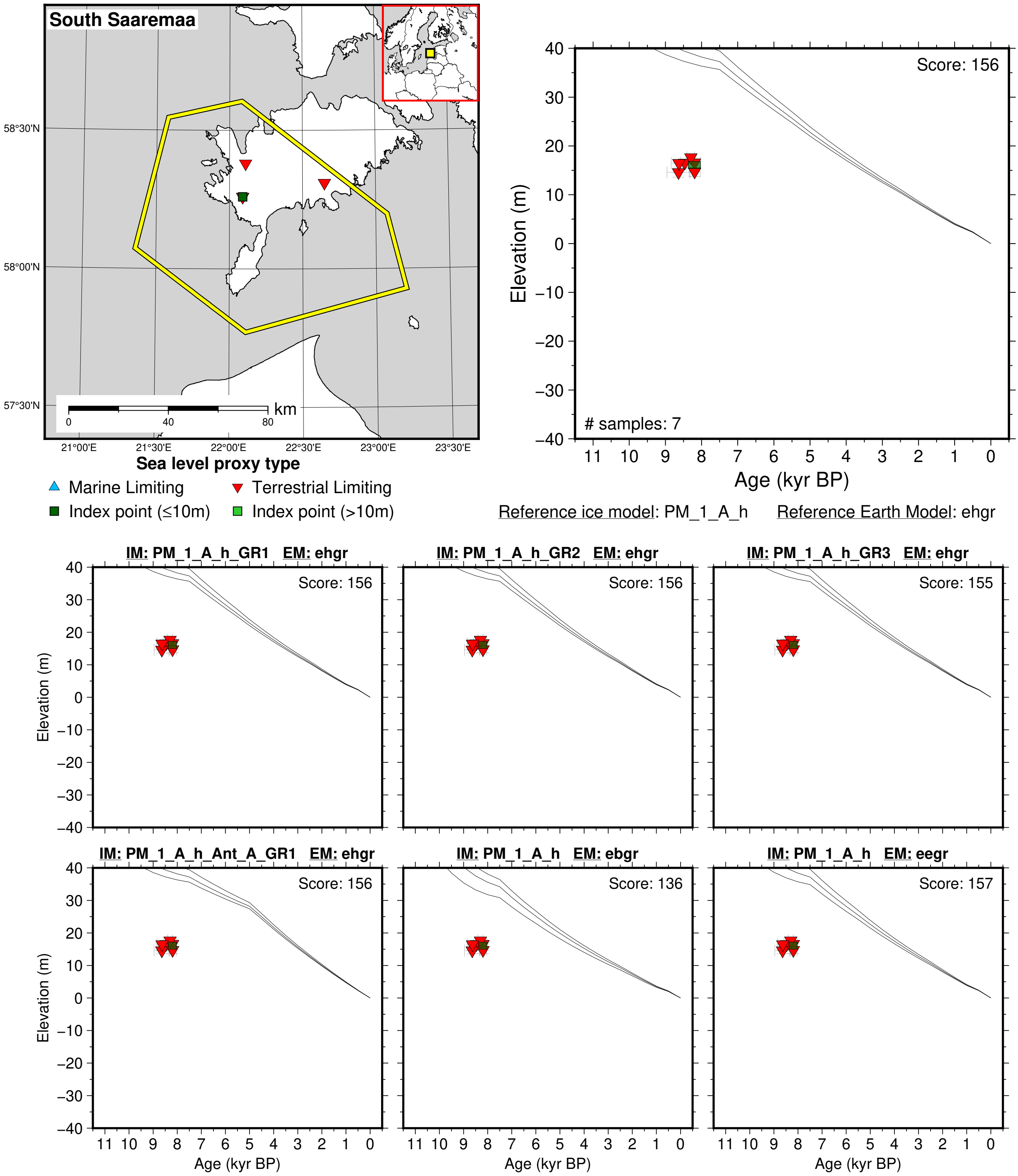

Figure 103: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: South Saaremaa. References: Reintam et al. (2008); Rosentau et al. (2021); Saarse et al. (2009).

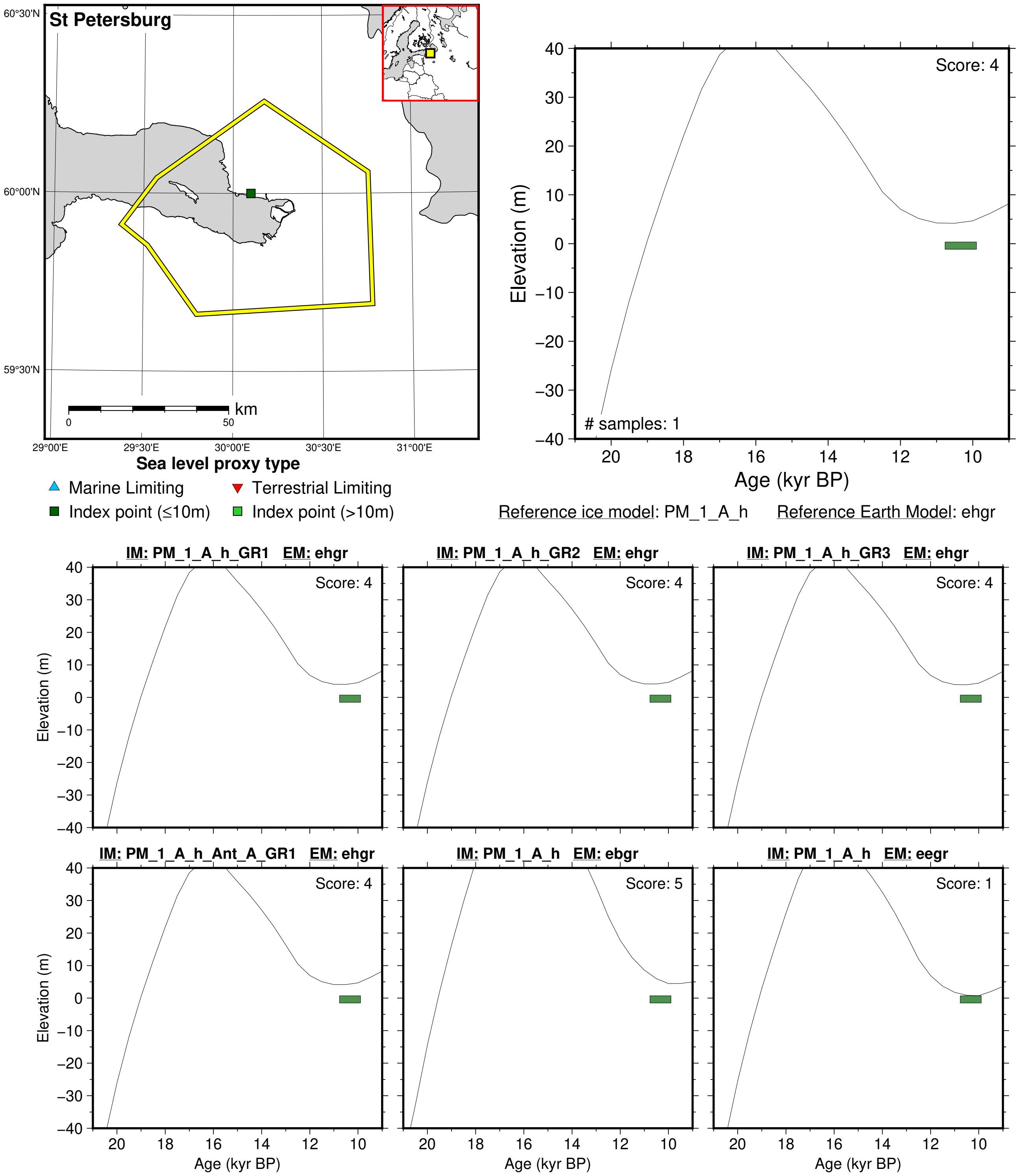

Figure 104: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: St Petersburg. References: Morozov (2014); Rosentau et al. (2021).

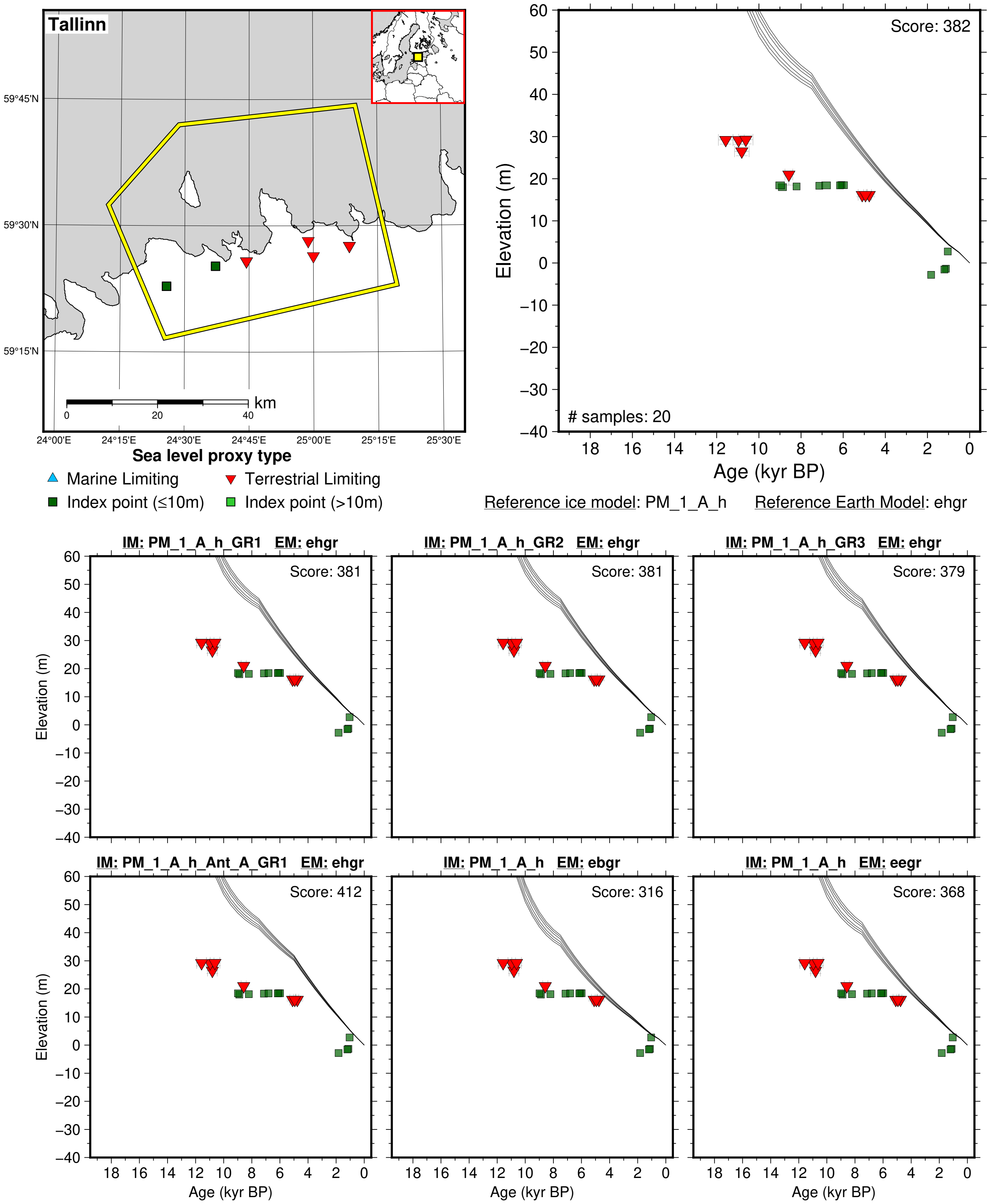

Figure 105: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: Tallinn. References: Grudzinska et al. (2014); Heinsalu (2000); Lõugas and Tomek (2013); Muru et al. (2017); Rosentau et al. (2021); Saarse et al. (2006, 2009); Veski (1998).

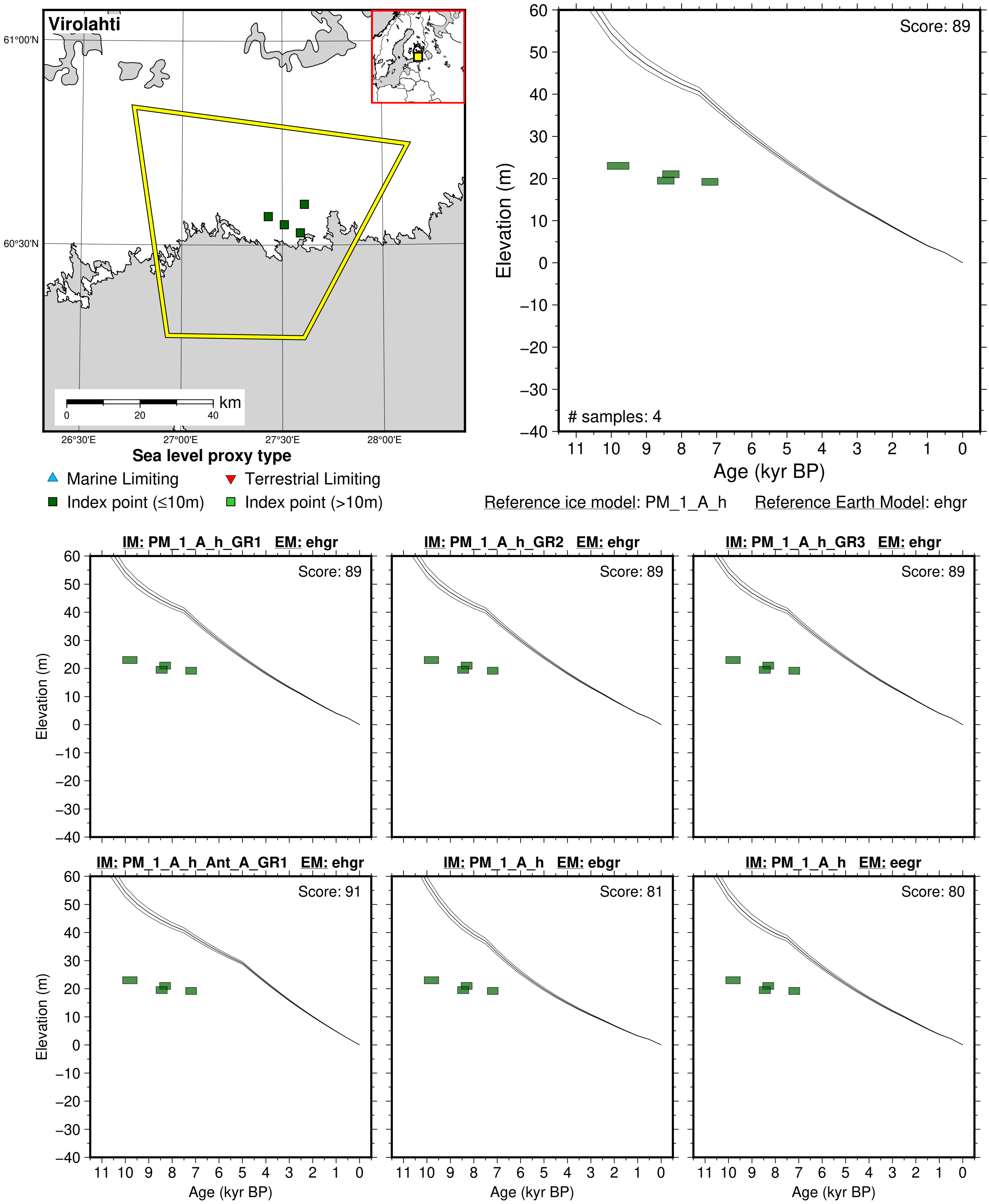

Figure 106: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: Virolahti. References: Miettinen (2002); Rosentau et al. (2021).

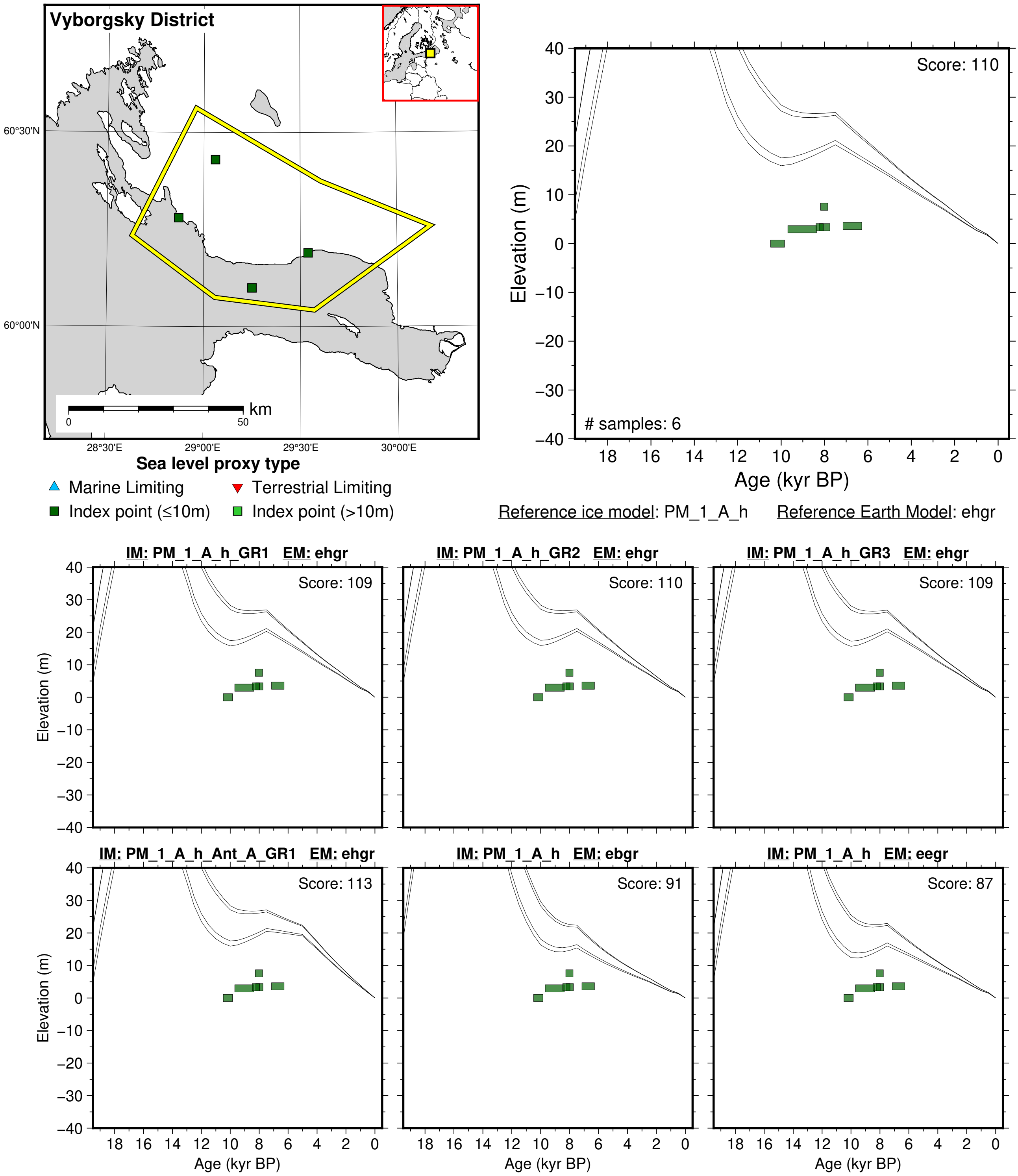

Figure 107: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: Vyborgsky District. References: Miettinen et al. (2007); Morozov (2014); Rosentau et al. (2021).

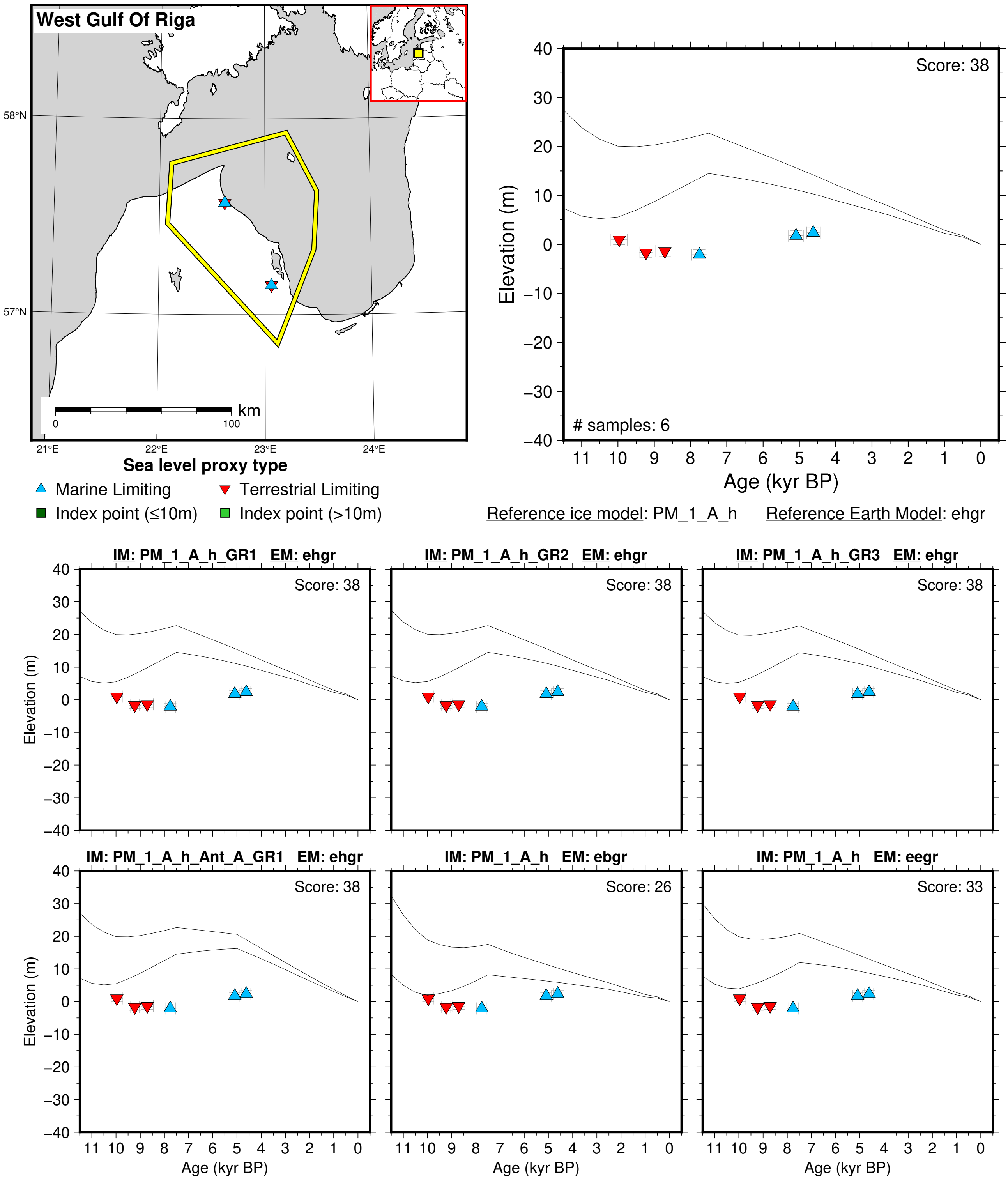

Figure 108: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: West Gulf Of Riga. References: Eberhards (2006); Grudzinska (2011); Pujāte (2015); Punning et al. (1973); Rosentau et al. (2021); Veinbergs (1996).

6.6.2 North Baltic

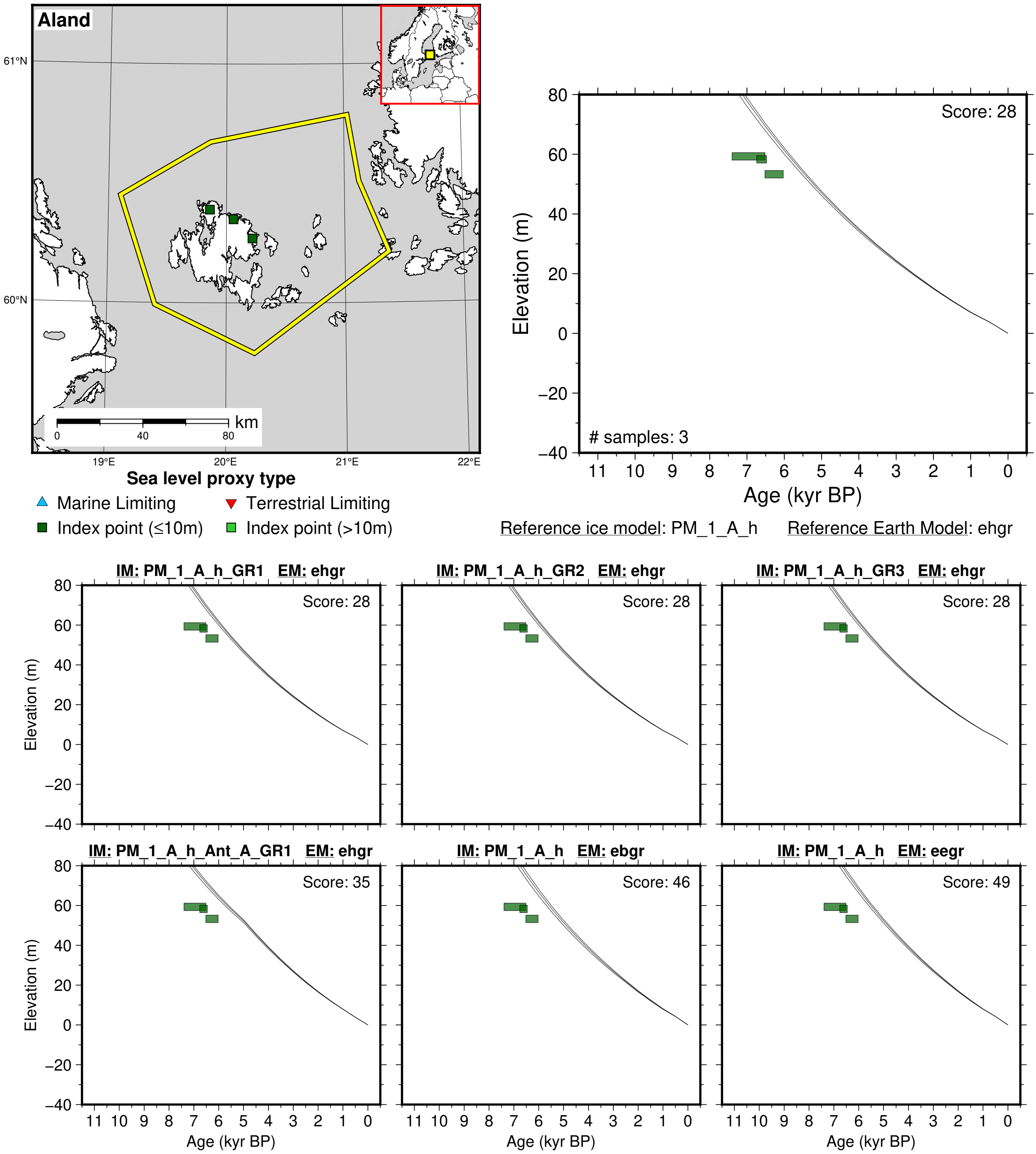

Figure 109: Paleo-sea level and comparison of six models for subregion: North Baltic, location: Aland. References: Glückert (1978a); Rosentau et al. (2021).

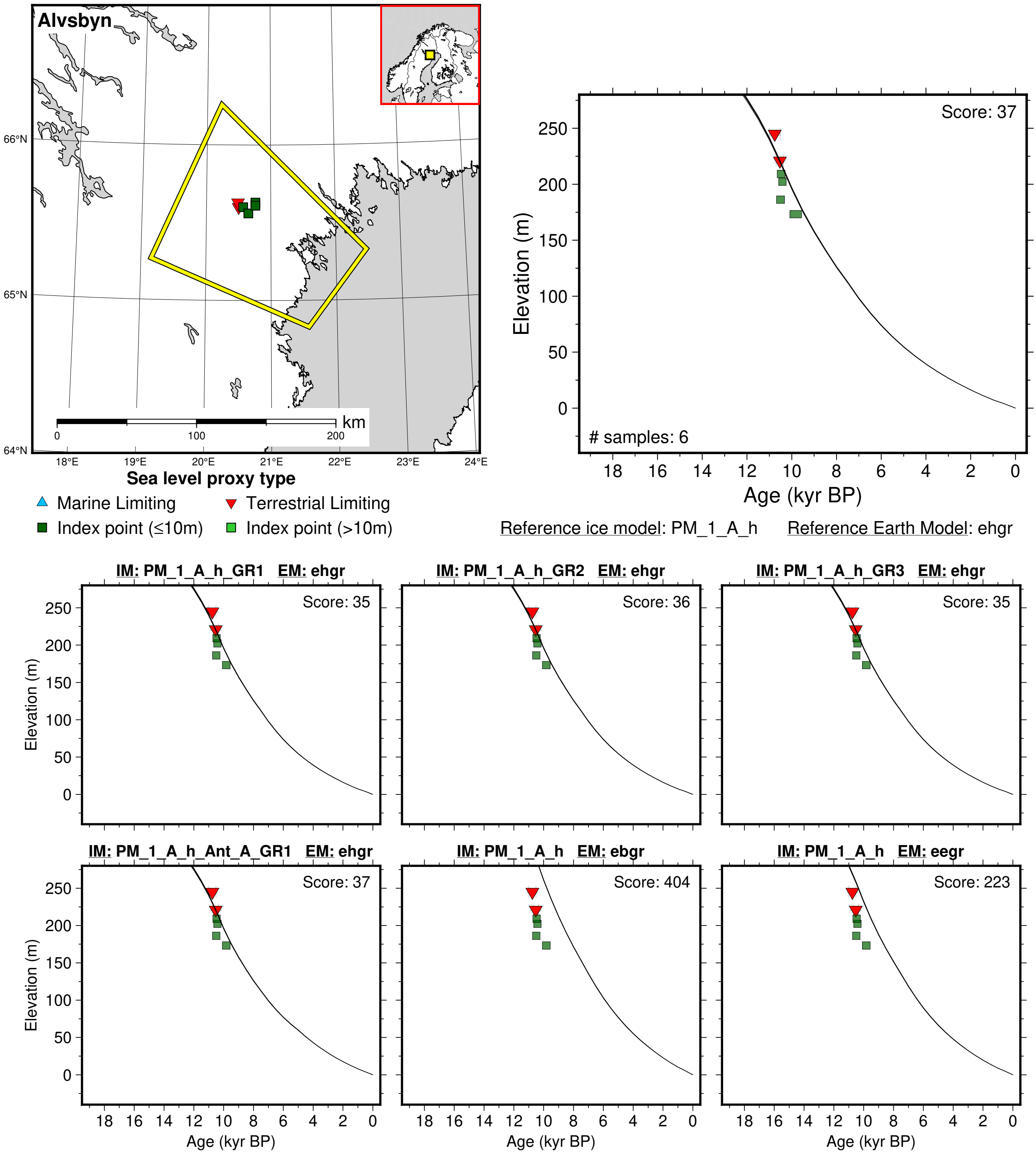

Figure 110: Paleo-sea level and comparison of six models for subregion: North Baltic, location: Alvsbyn. References: Lindén et al. (2006); Rosentau et al. (2021).

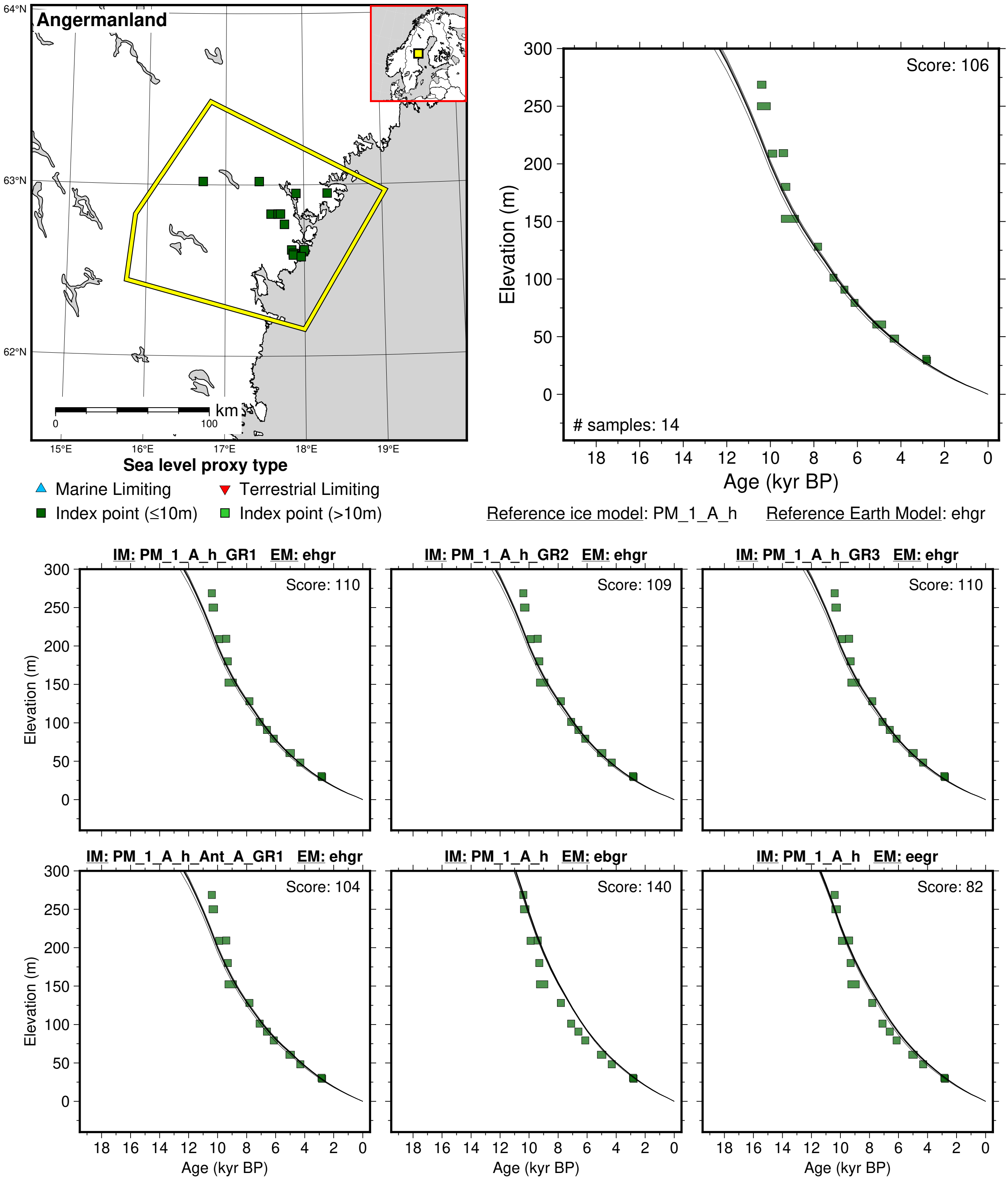

Figure 111: Paleo-sea level and comparison of six models for subregion: North Baltic, location: Angermanland. References: Berglund (2004, 2008); Rosentau et al. (2021); Wallin (1994).

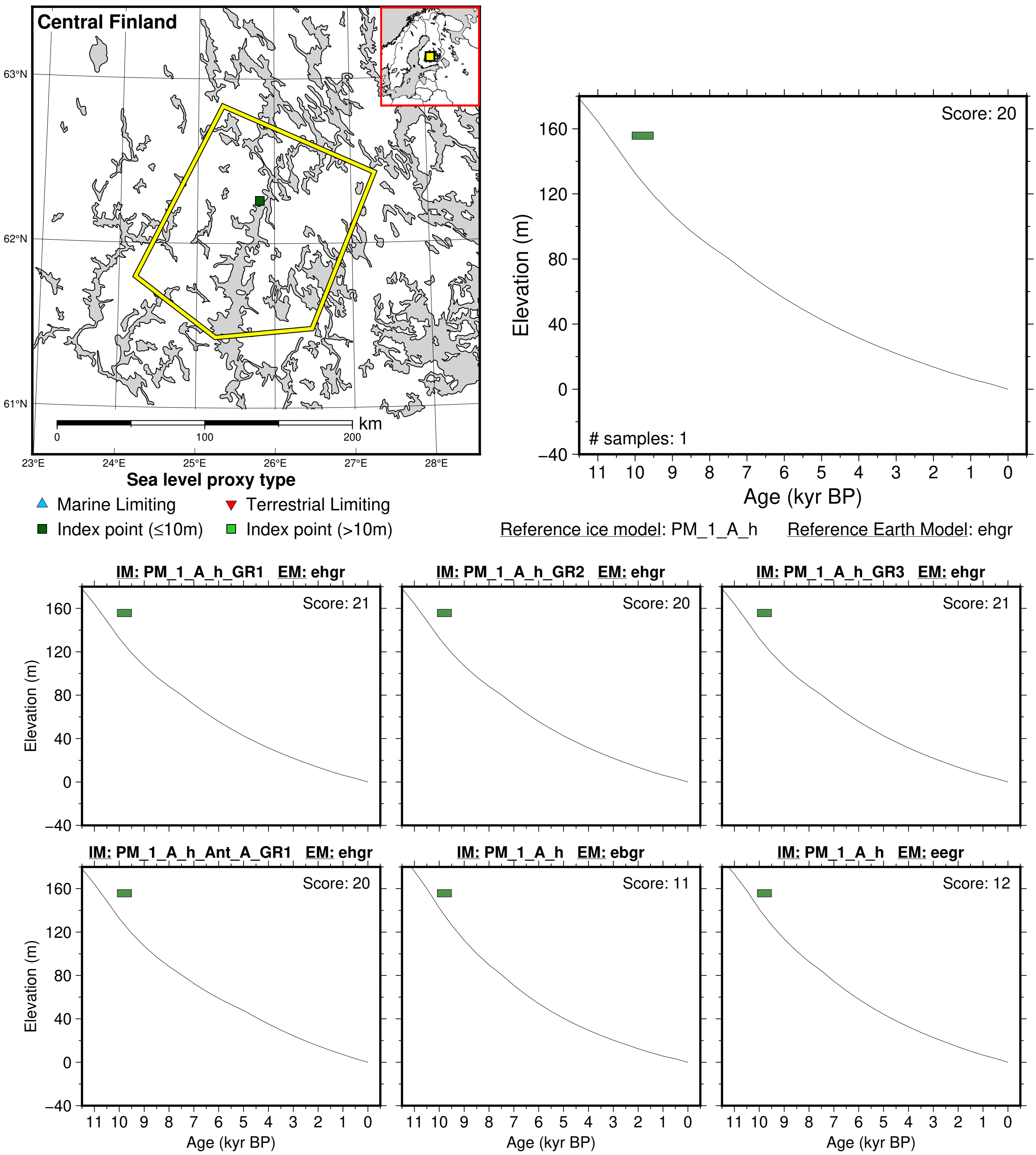

Figure 112: Paleo-sea level and comparison of six models for subregion: North Baltic, location: Central Finland. References: Ristaniemi (1987); Rosentau et al. (2021).

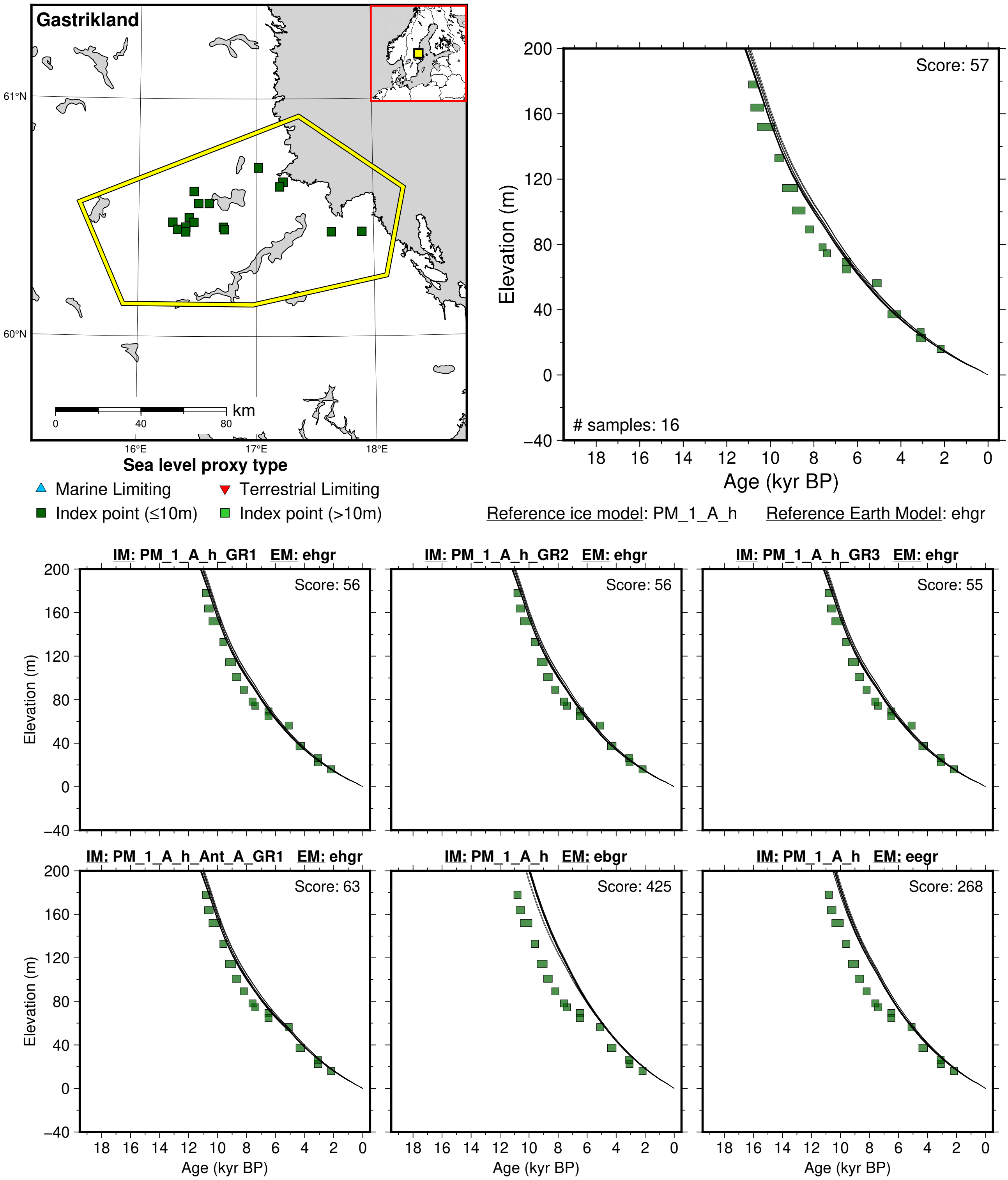

Figure 113: Paleo-sea level and comparison of six models for subregion: North Baltic, location: Gastrikland. References: Berglund (2005, 2010, 2012); Hedenström and Risberg (2003); Rosentau et al. (2021).

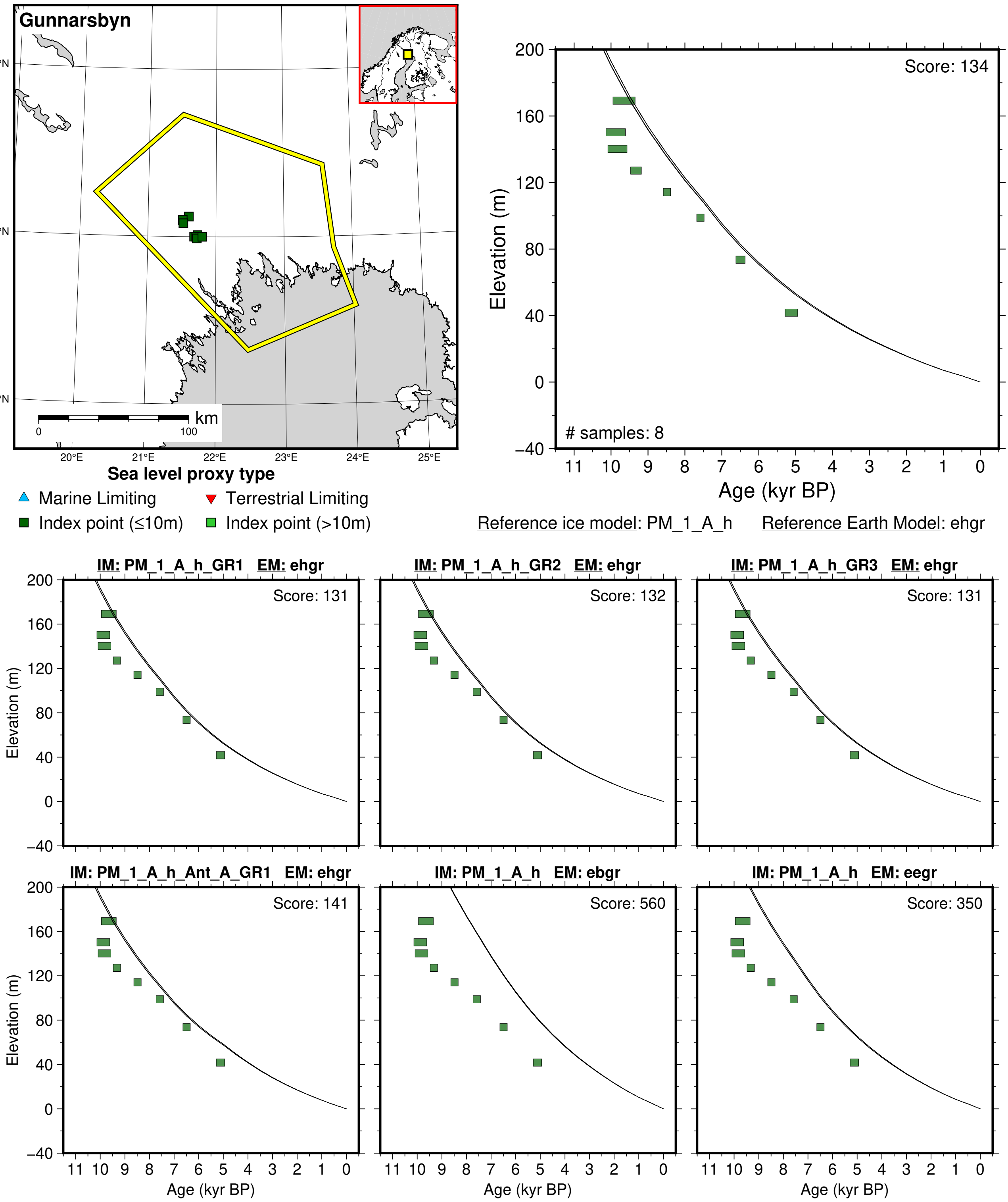

Figure 114: Paleo-sea level and comparison of six models for subregion: North Baltic, location: Gunnarsbyn. References: Lindén et al. (2006); Rosentau et al. (2021).

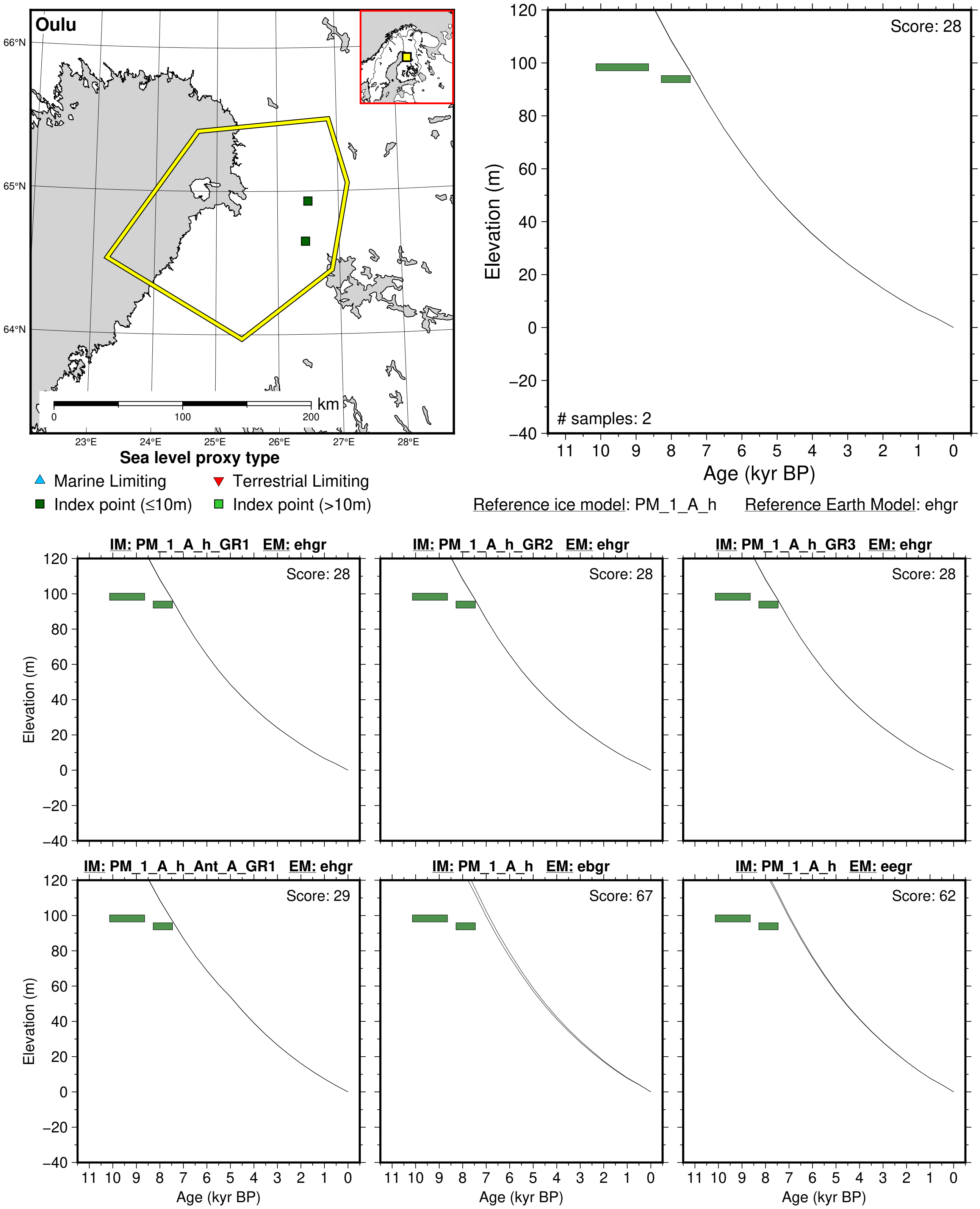

Figure 115: Paleo-sea level and comparison of six models for subregion: North Baltic, location: Oulu. References: Eronen (1974); Rosentau et al. (2021).

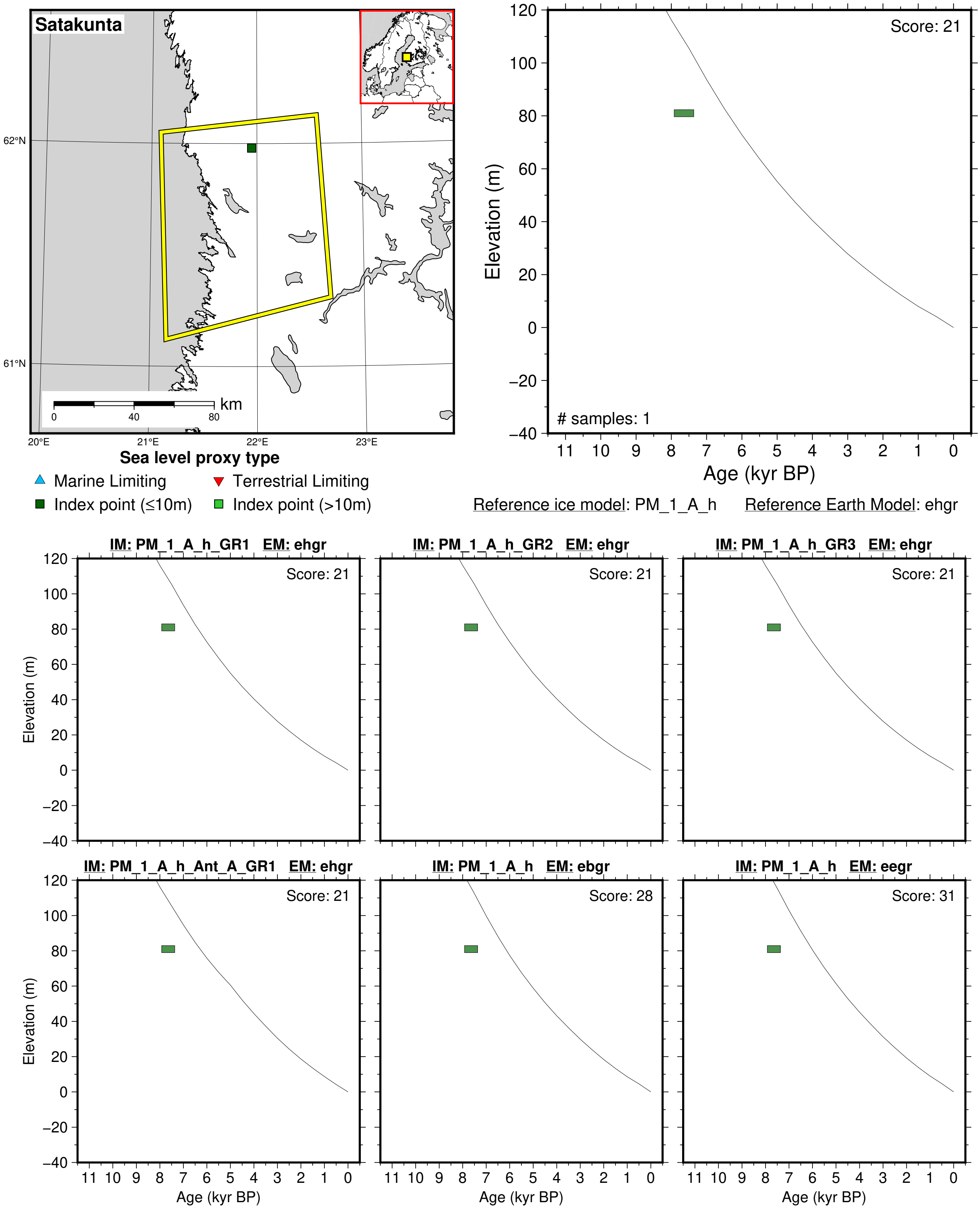

Figure 116: Paleo-sea level and comparison of six models for subregion: North Baltic, location: Satakunta. References: Rosentau et al. (2021); Salomaa (1982).

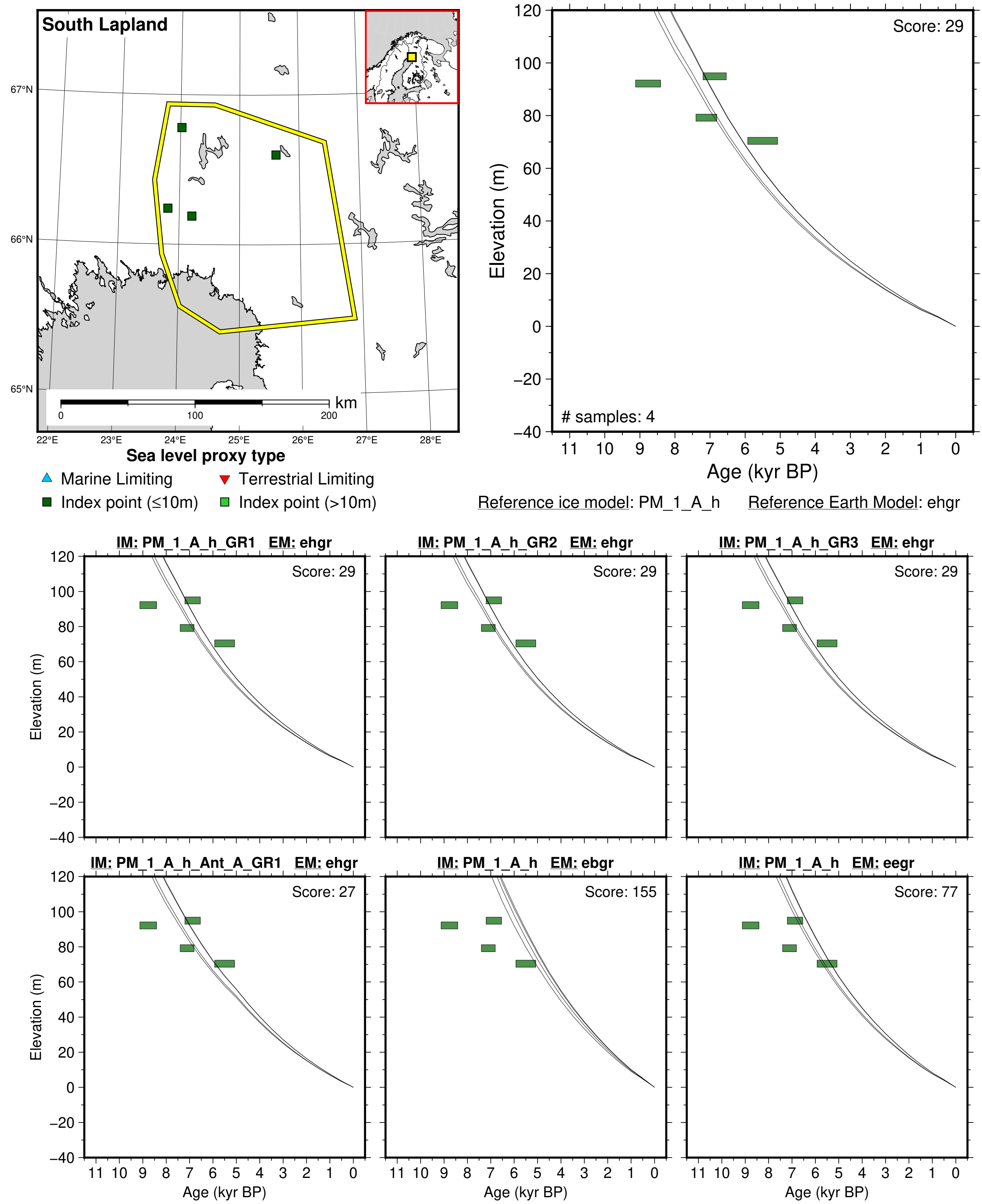

Figure 117: Paleo-sea level and comparison of six models for subregion: North Baltic, location: South Lapland. References: Eronen (1974); Rosentau et al. (2021); Saarnisto (1981).

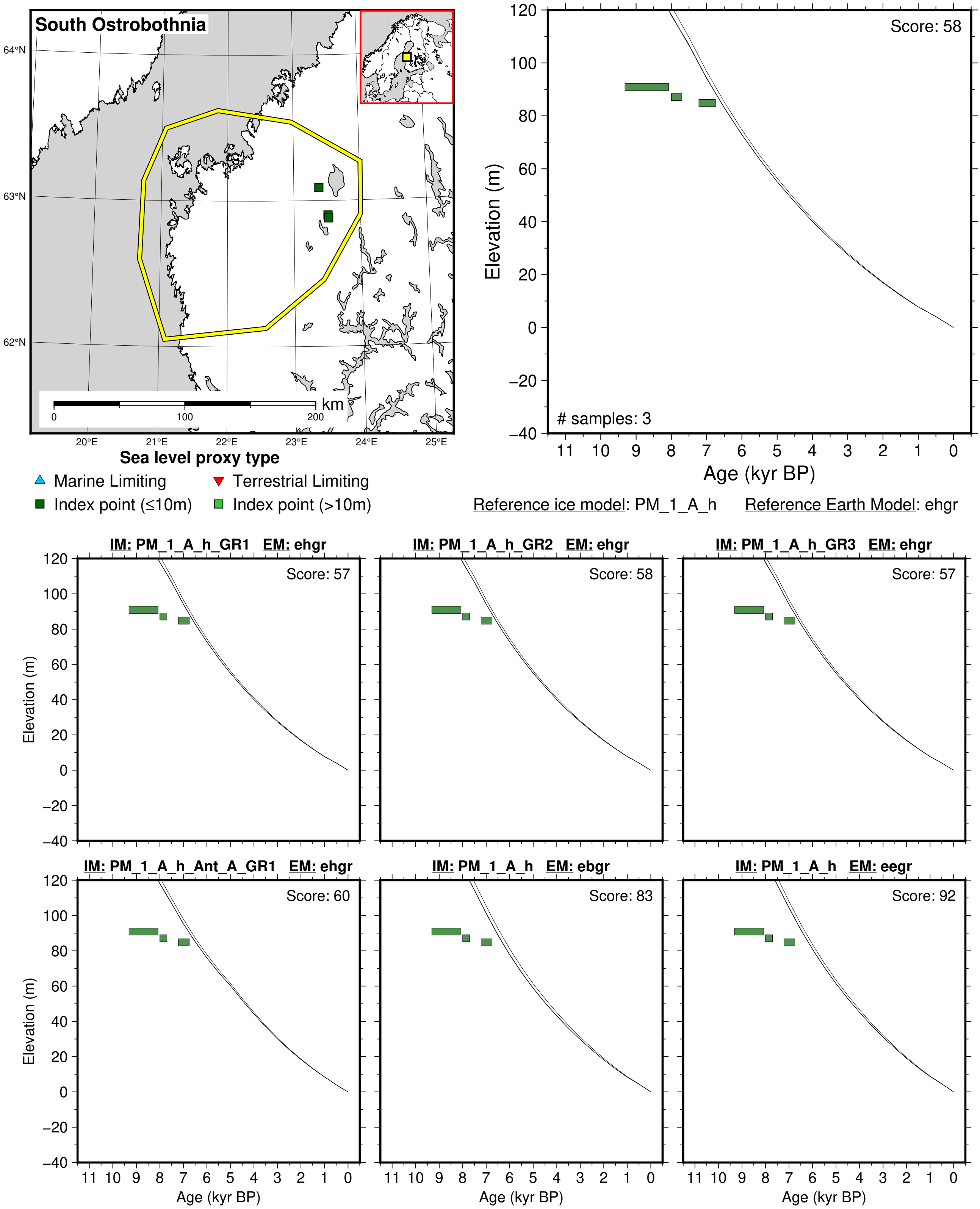

Figure 118: Paleo-sea level and comparison of six models for subregion: North Baltic, location: South Ostrobothnia. References: Eronen (1974); Glückert et al. (1993); Rosentau et al. (2021).

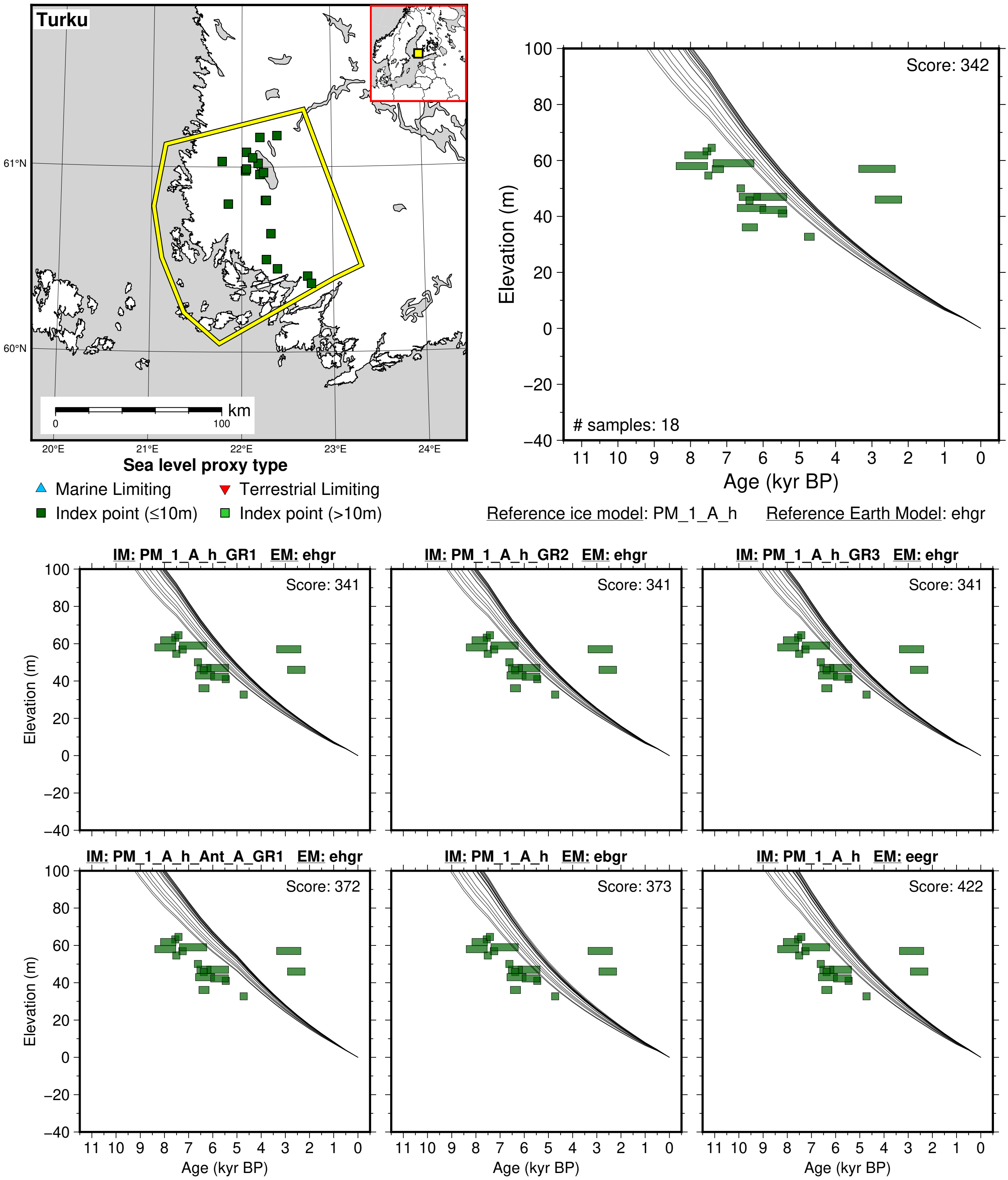

Figure 119: Paleo-sea level and comparison of six models for subregion: North Baltic, location: Turku. References: Eronen (1974); Eronen et al. (1982, 1995, 2001); Glückert (1976); Glückert et al. (1992); Rosentau et al. (2021).

6.6.3 North Sea

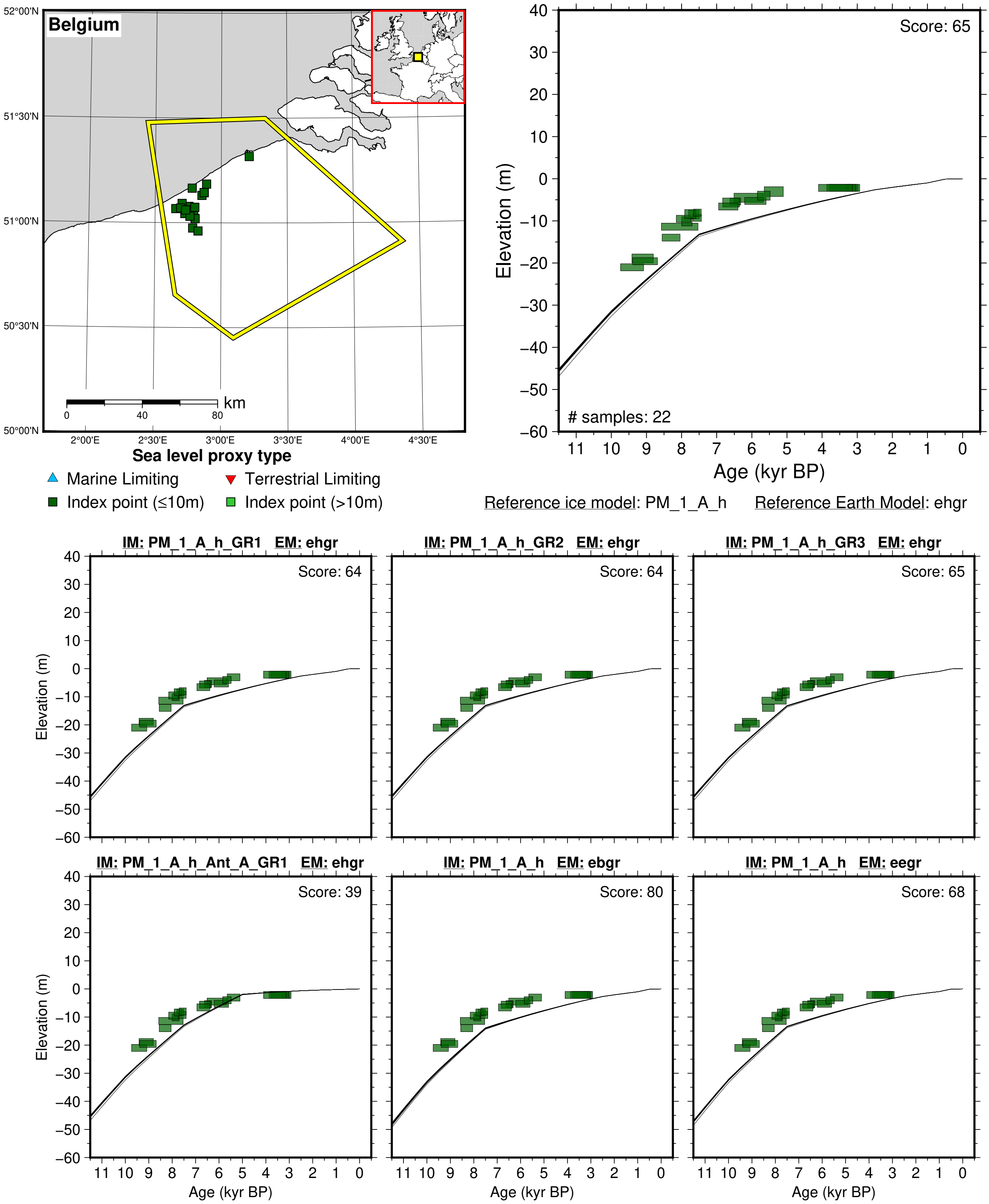

Figure 120: Paleo-sea level and comparison of six models for subregion: North Sea, location: Belgium. References: Denys and Baeteman (1995); Vink et al. (2007).

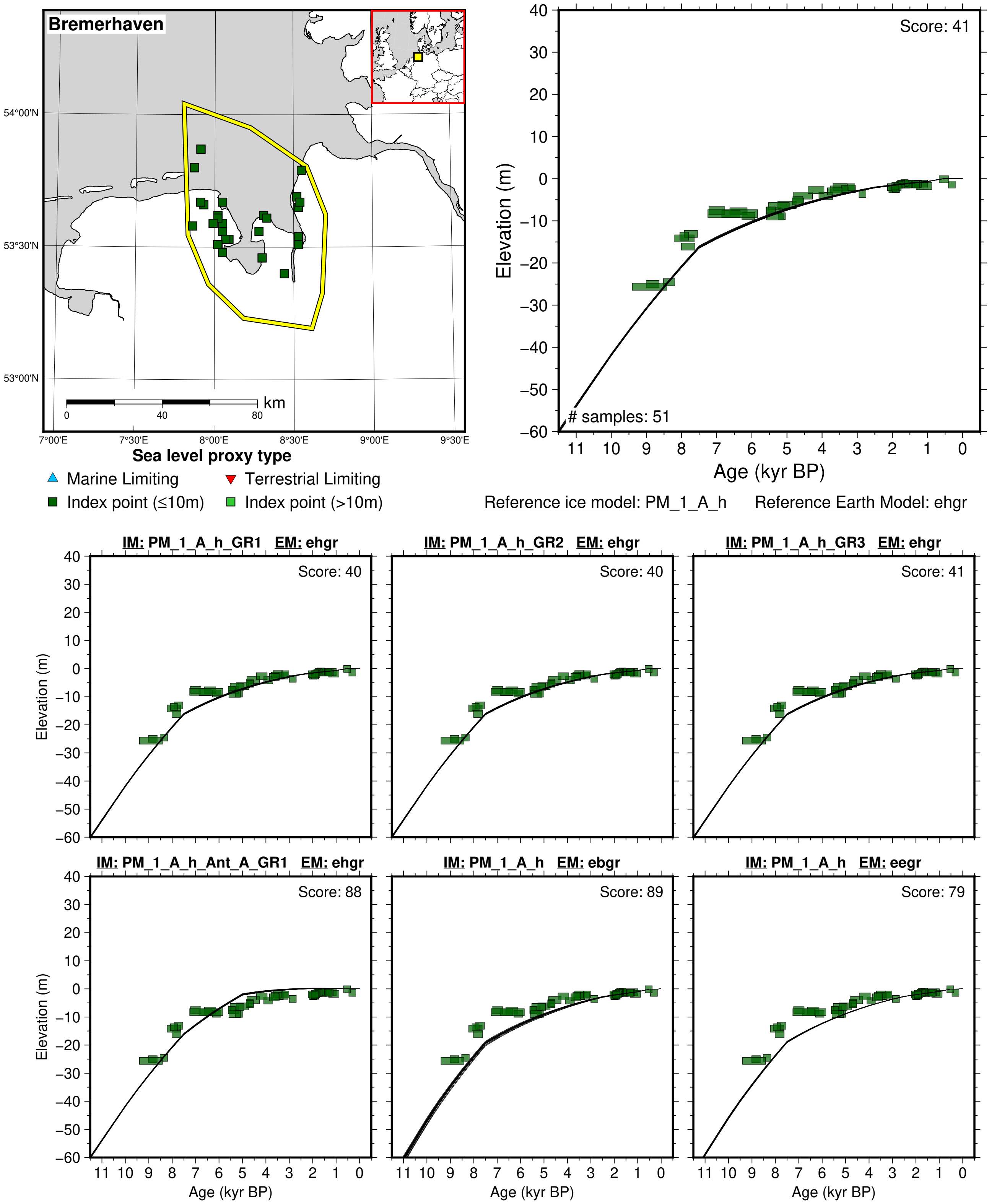

Figure 121: Paleo-sea level and comparison of six models for subregion: North Sea, location: Bremerhaven. References: Behre et al. (1975); Behre (2003, 2007); Behre and Kučan (1999); Brandt (1980, 1991); Ey (1995); Haarnagel (1979); Hanisch (1980); Körber-Grohne (1967); Ludwig et al. (1981); Preuss (1979); Schmid (1994); Schütte (1939); Sindowski (1969); Strahl (2002a,b); Streif (1981, 1984, 1985, 1986); Vink et al. (2007).

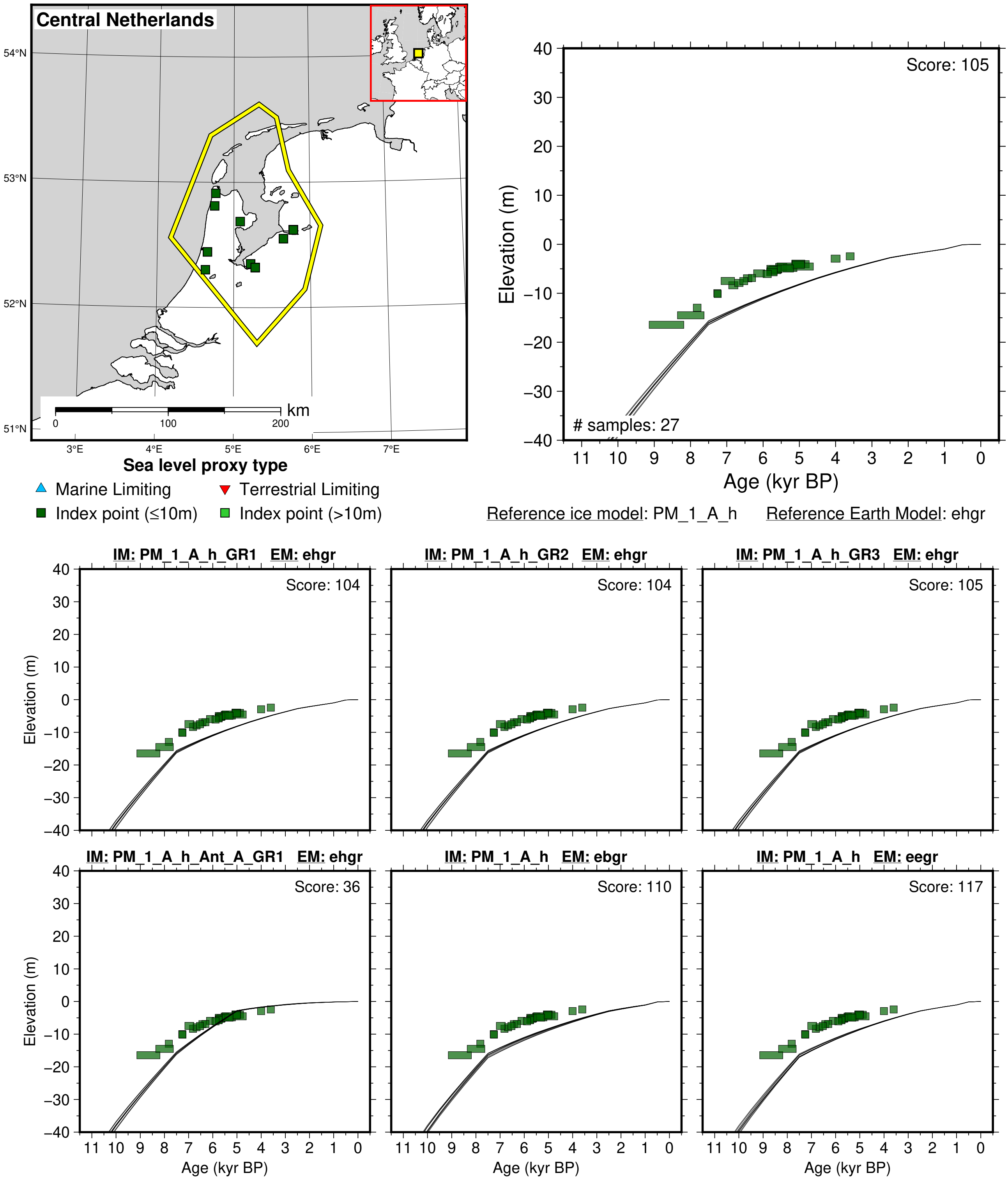

Figure 122: Paleo-sea level and comparison of six models for subregion: North Sea, location: Central Netherlands. References: Bennema (1954); Jelgersma (1961); Louwe Kooijmans (1976); Makaske et al. (2003); Roeleveld and Gotjé (1993); van de Plassche (1982); van de Plassche et al. (2005); Vink et al. (2007).

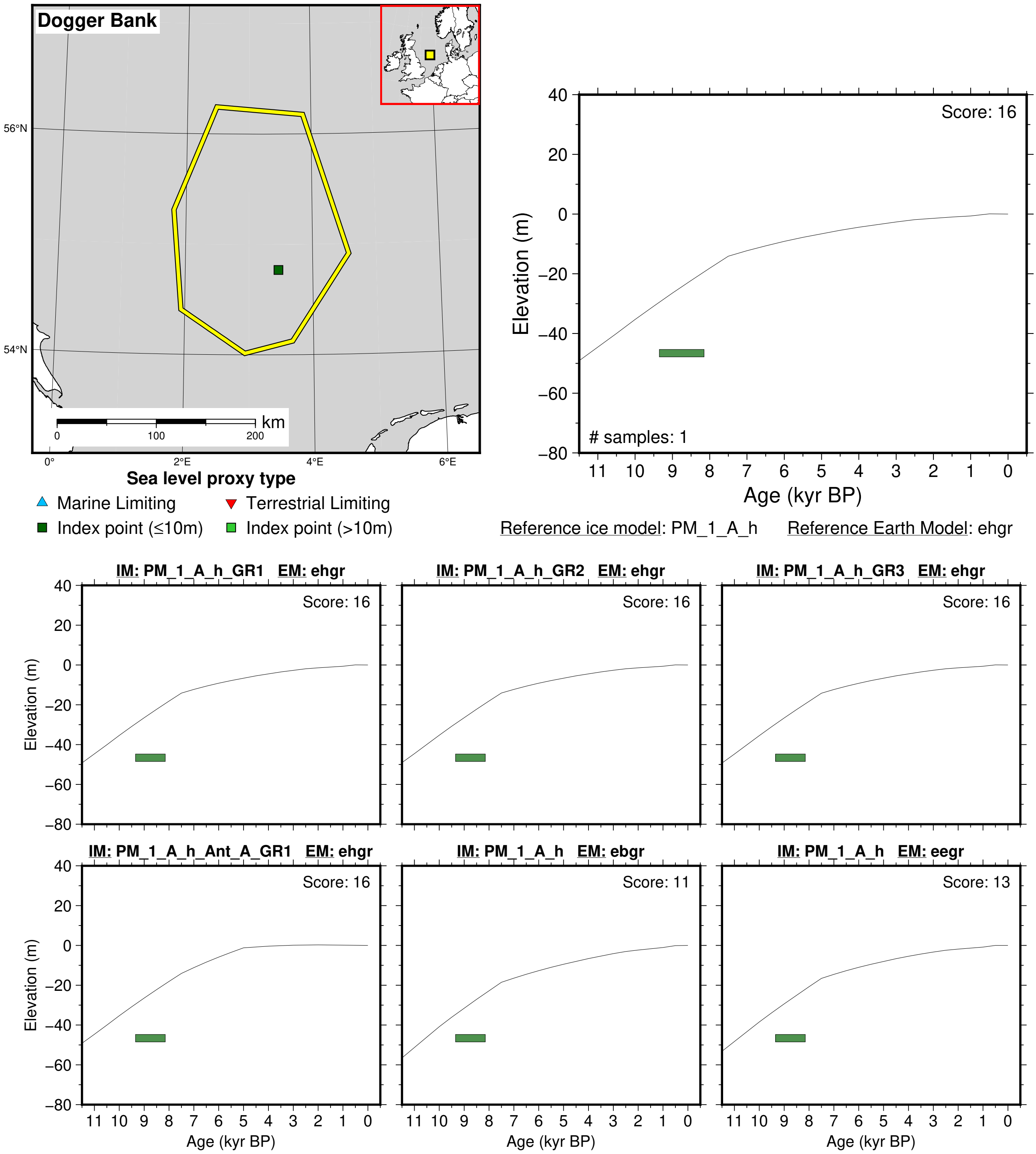

Figure 123: Paleo-sea level and comparison of six models for subregion: North Sea, location: Dogger Bank. References: Behre (2003, 2007); Behre and Menke (1969); Vink et al. (2007).

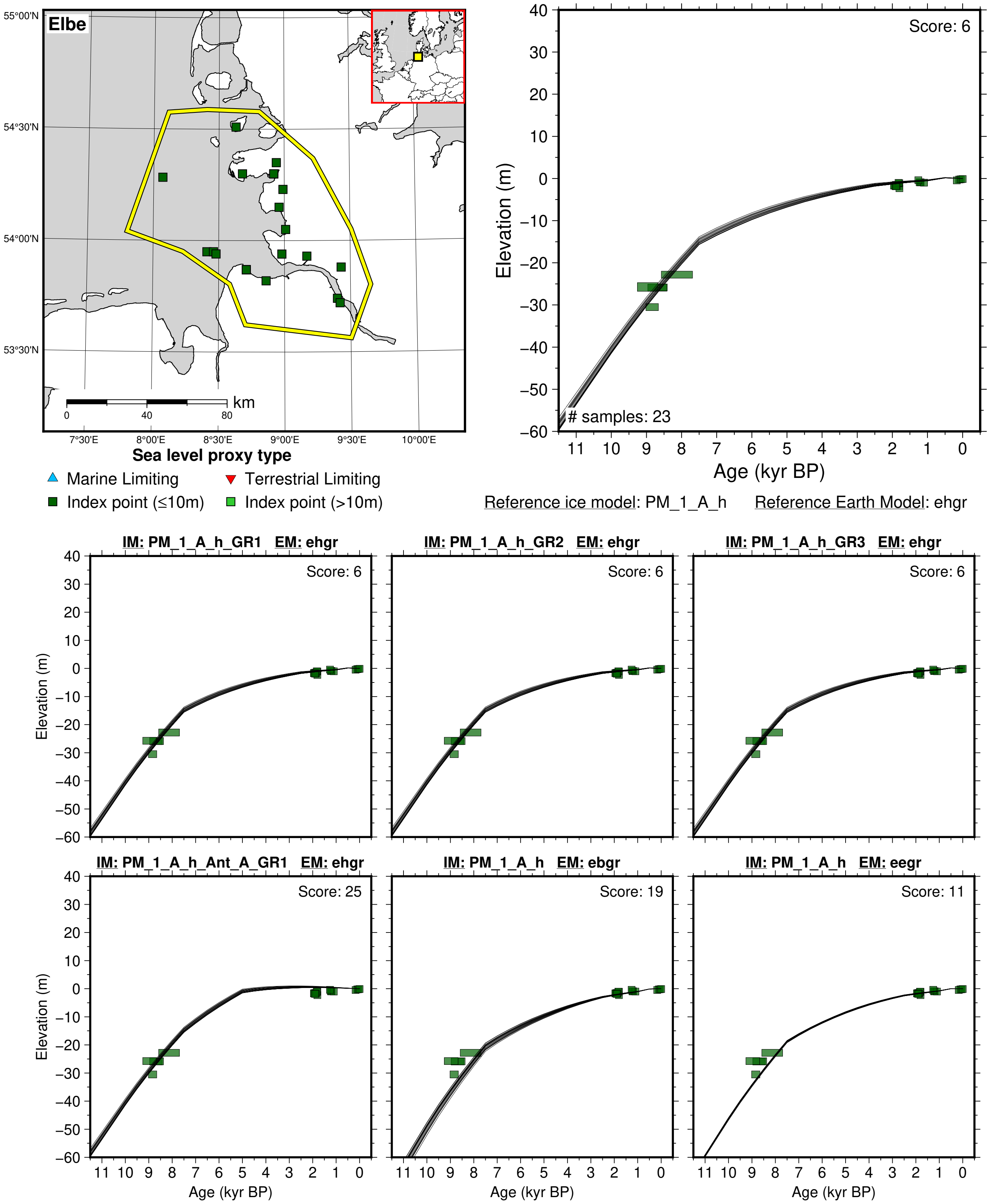

Figure 124: Paleo-sea level and comparison of six models for subregion: North Sea, location: Elbe. References: Bantelmann (1960, 1966, 1975); Bantelmann et al. (1984); Behre (2003, 2007); Behre et al. (1979); Brandt (1980); Higelke et al. (1984); Linke (1982); Meier (2001a,b); Menke (1976, 1988); Rohde (1975); Vink et al. (2007).

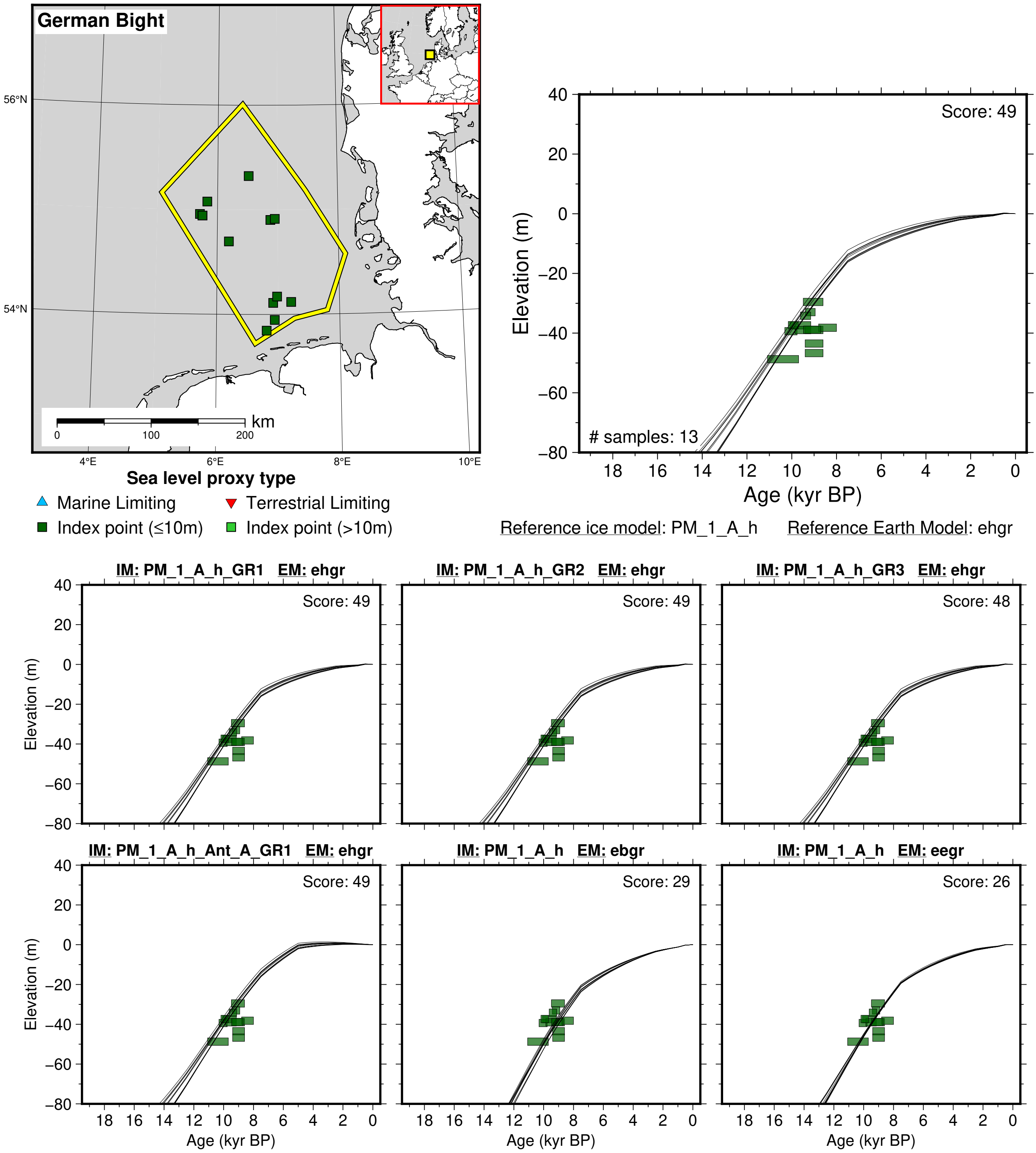

Figure 125: Paleo-sea level and comparison of six models for subregion: North Sea, location: German Bight. References: Behre (2003, 2007); Ludwig et al. (1979); Menke (1996); Streif et al. (1983); Vink et al. (2007).

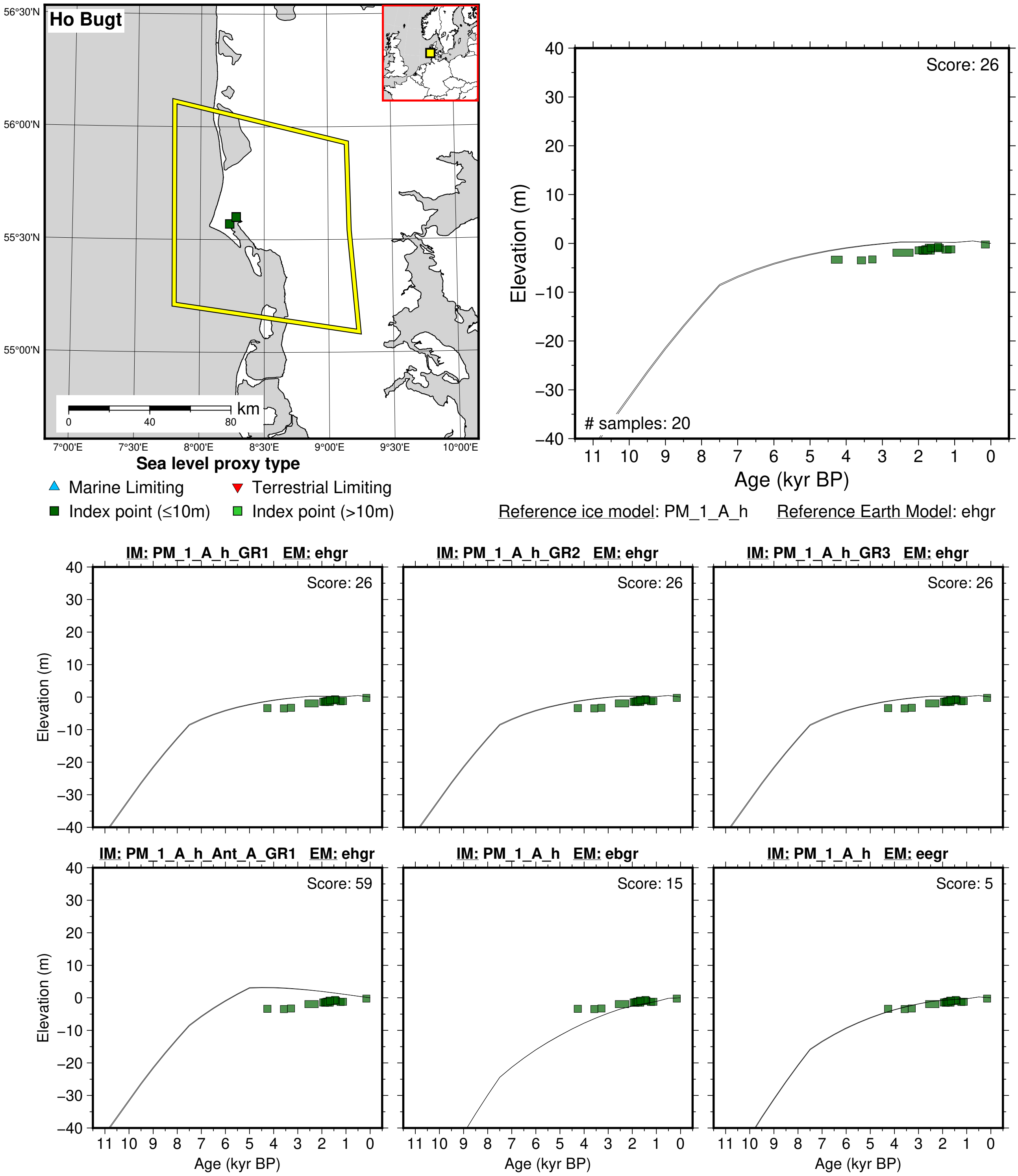

Figure 126: Paleo-sea level and comparison of six models for subregion: North Sea, location: Ho Bugt. References: Gehrels et al. (2006).

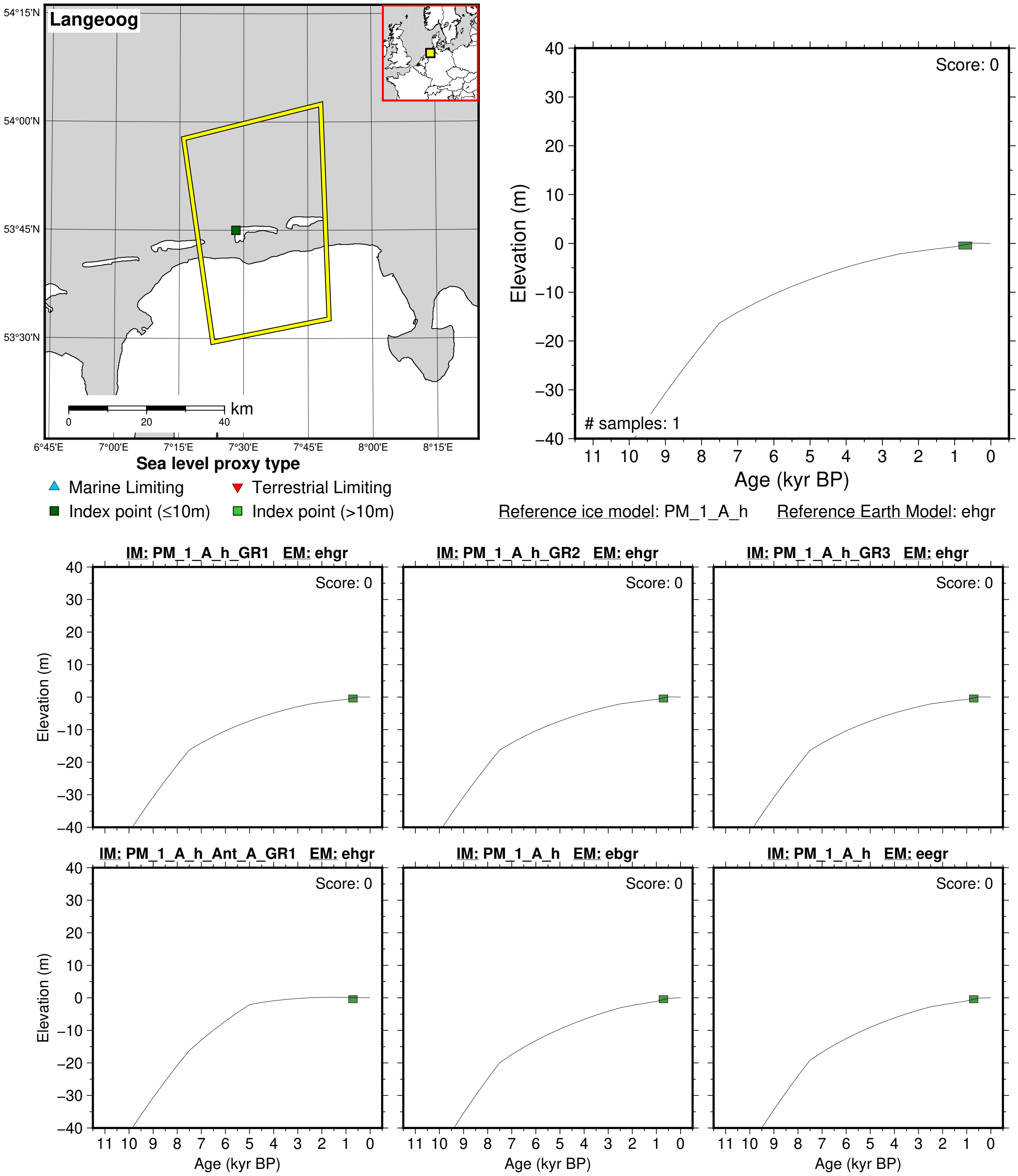

Figure 127: Paleo-sea level and comparison of six models for subregion: North Sea, location: Langeoog. References: Barckhausen (1969); Behre (2003, 2007); Vink et al. (2007).

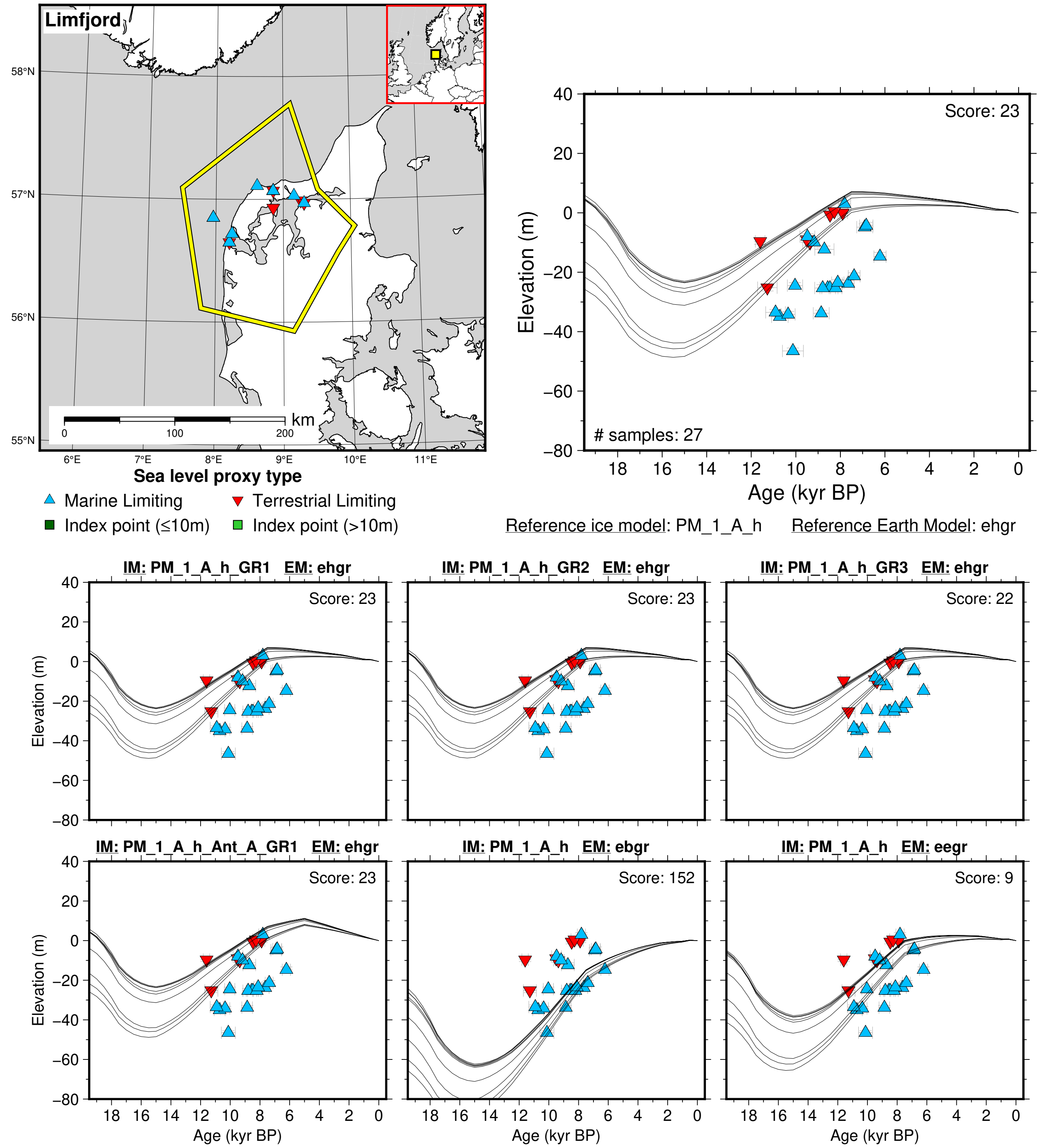

Figure 128: Paleo-sea level and comparison of six models for subregion: North Sea, location: Limfjord. References: Jessen et al. (2019); Nielsen (2010, 2013); Petersen (1975, 1981, 1985, 1998); Petersen and von Platen-Hallermund (2018).

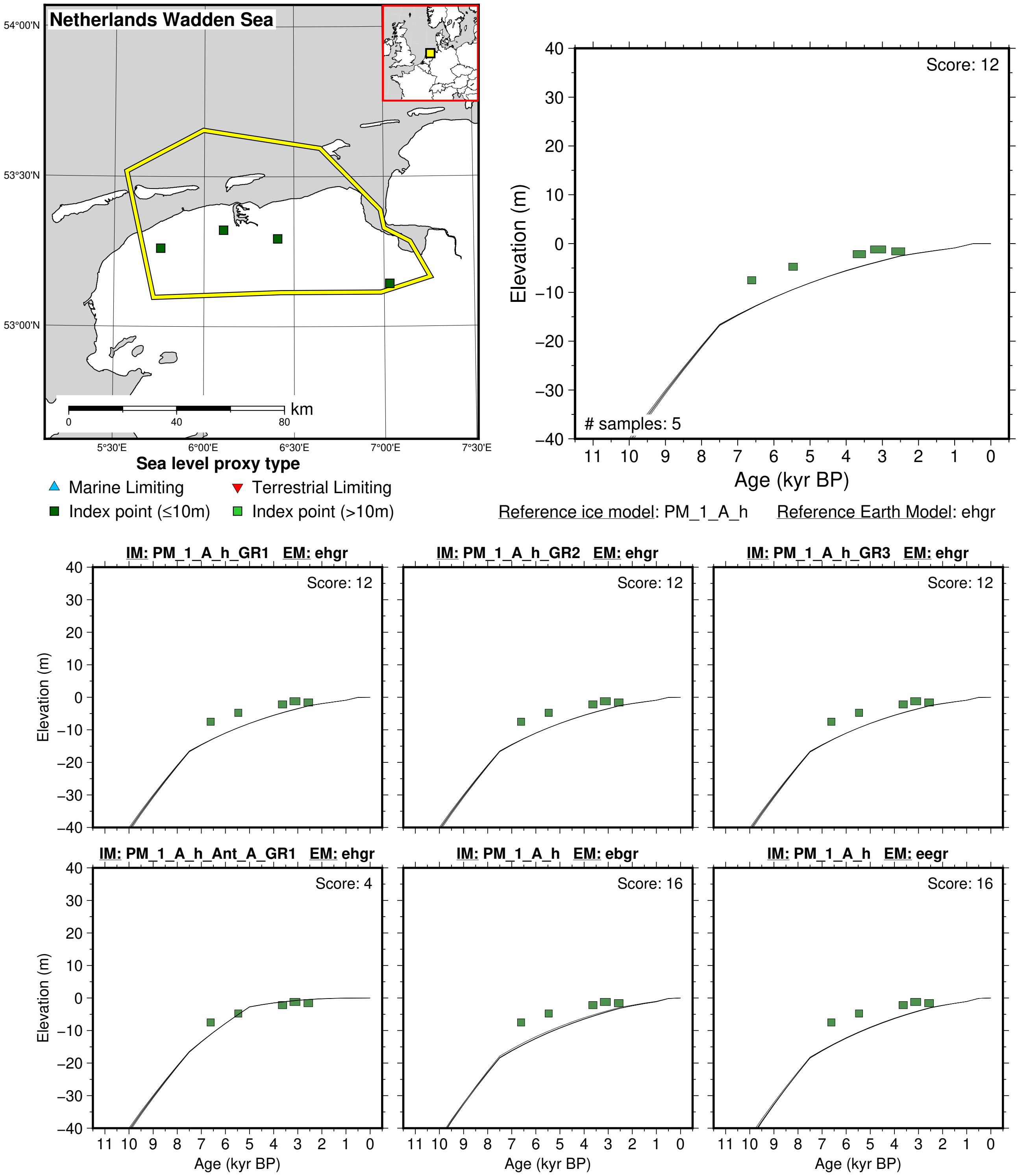

Figure 129: Paleo-sea level and comparison of six models for subregion: North Sea, location: Netherlands Wadden Sea. References: Griede (1978); Jelgersma (1961); Louwe Kooijmans (1976); van de Plassche (1982); Vink et al. (2007).

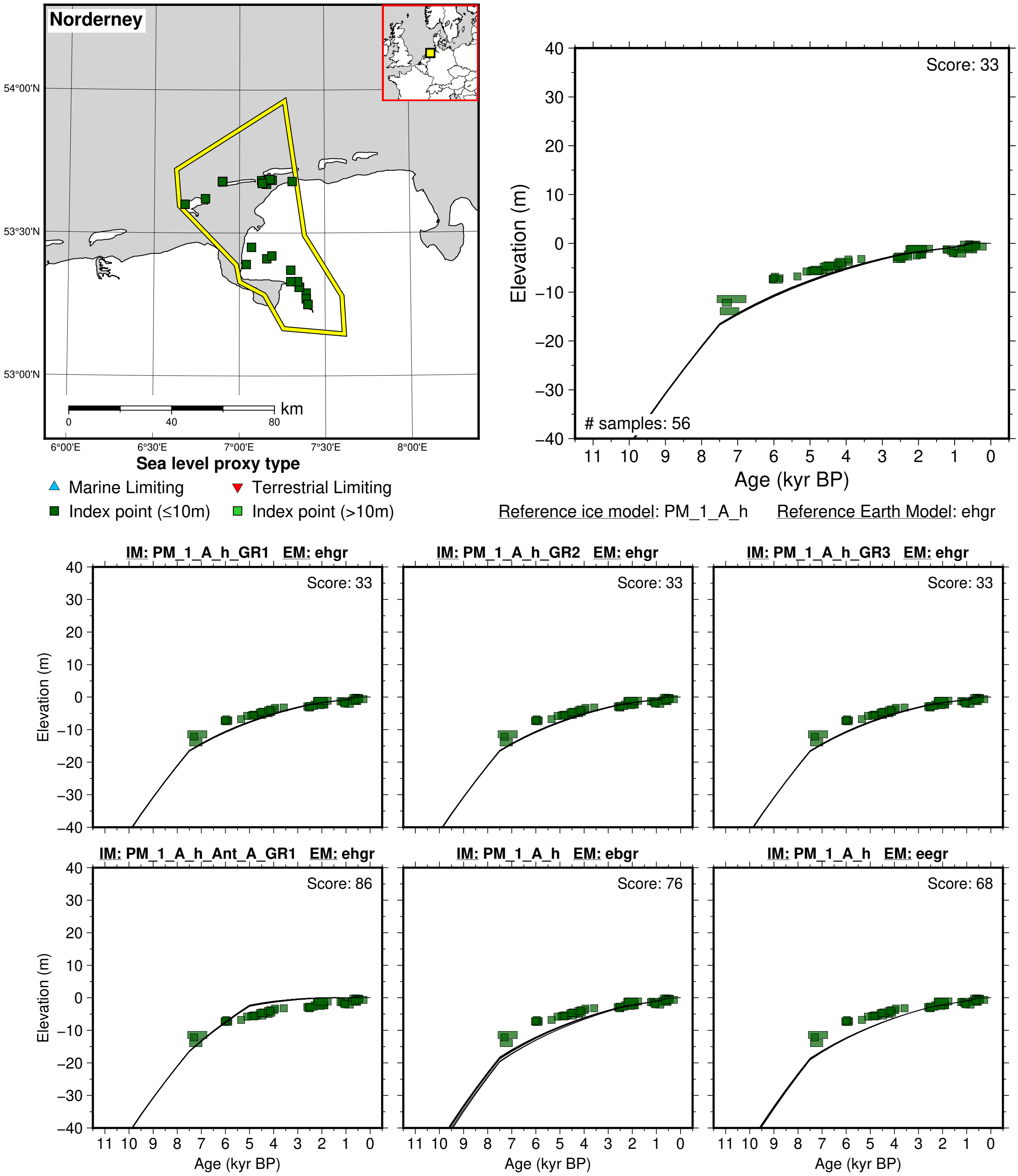

Figure 130: Paleo-sea level and comparison of six models for subregion: North Sea, location: Norderney. References: Barckhausen (1984); Behre (1970, 2003, 2007); Brandt (1980); Freund and Streif (2000); Haarnagel (1957, 1969, 1980); Reinhardt (1965); Scheder et al. (2019, 2022); Streif (1986); Vink et al. (2007).

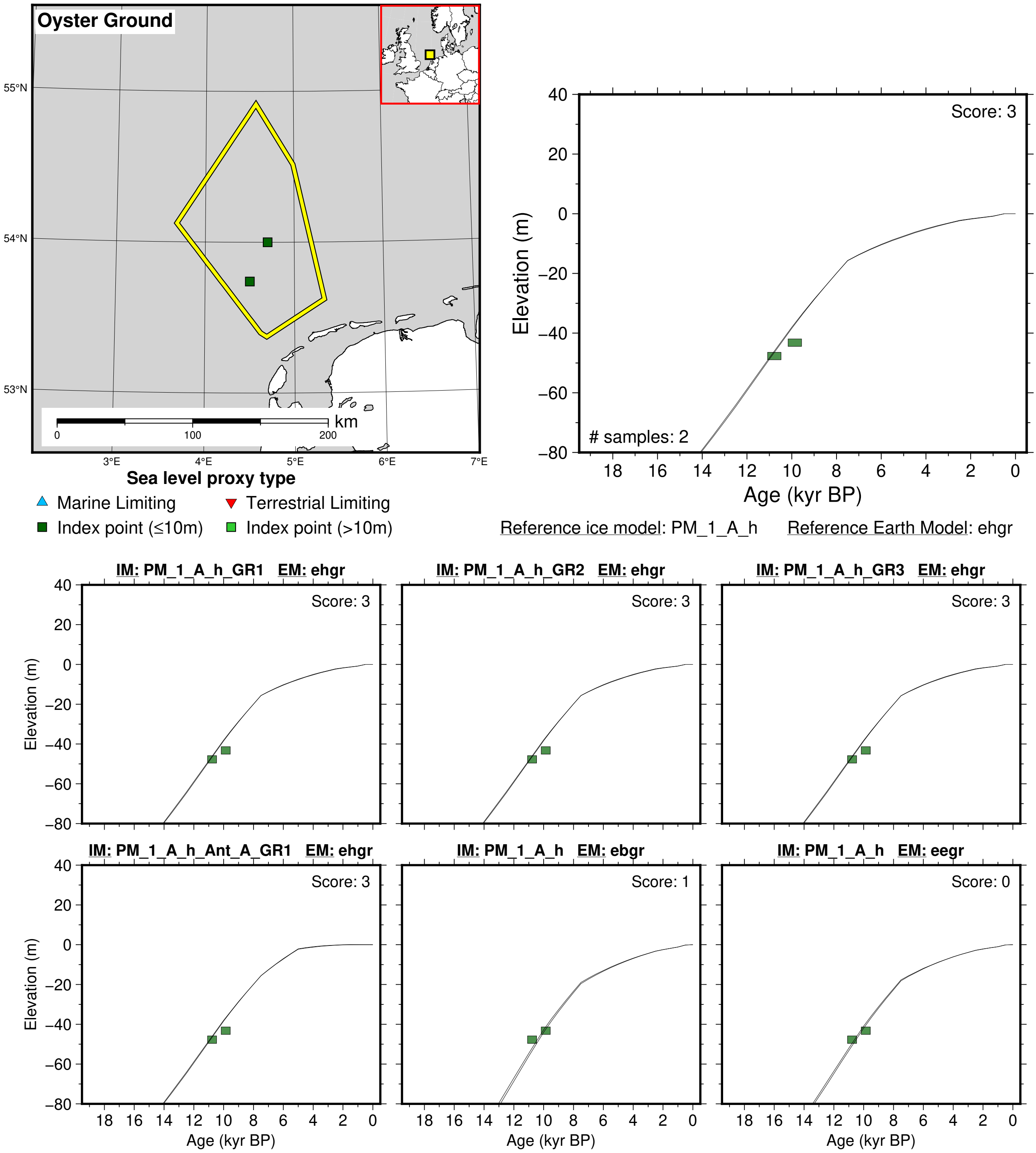

Figure 131: Paleo-sea level and comparison of six models for subregion: North Sea, location: Oyster Ground. References: Behre and Irion (1984); Behre (2003); Jelgersma (1979); Kiden et al. (2002); Vink et al. (2007).

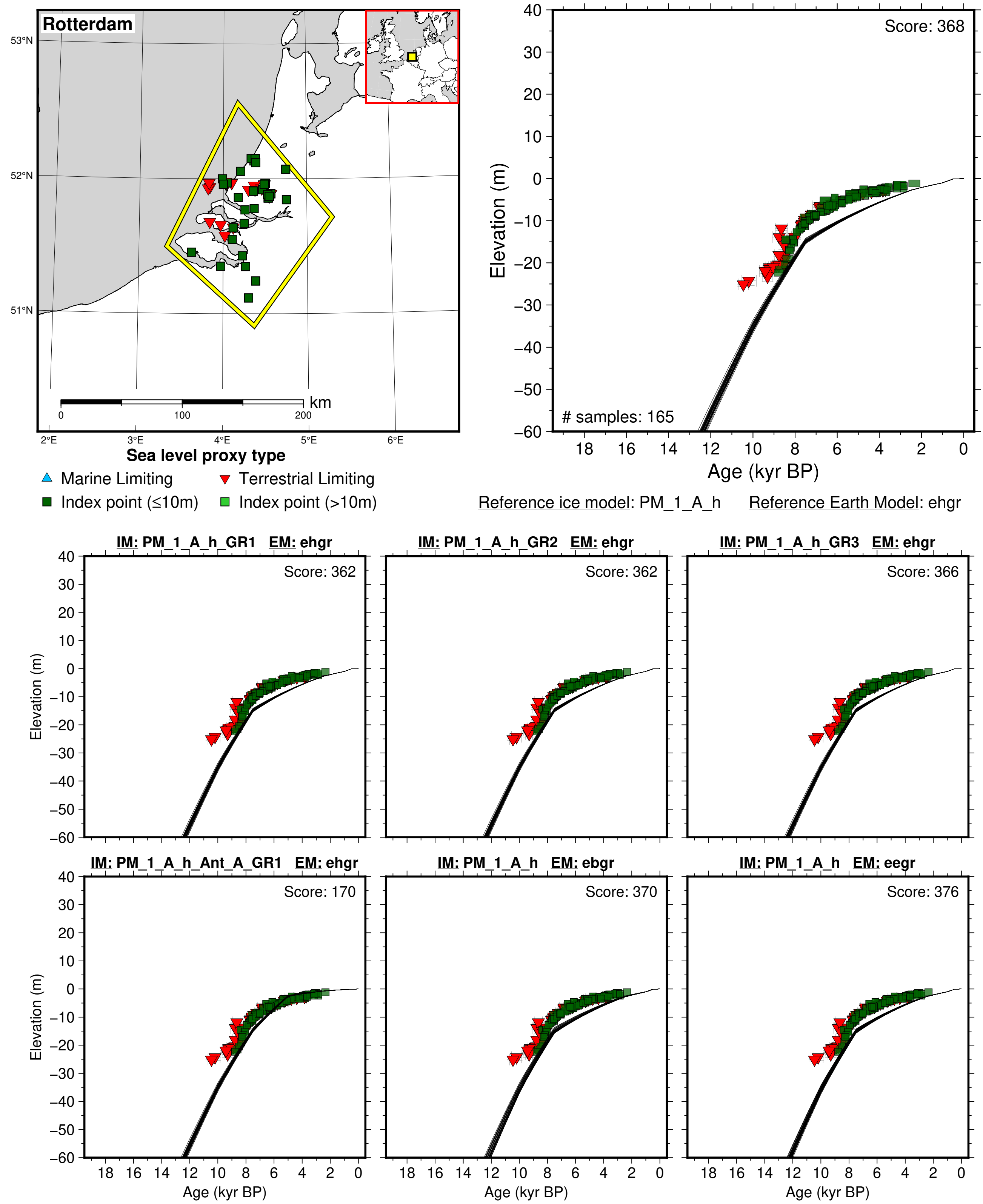

Figure 132: Paleo-sea level and comparison of six models for subregion: North Sea, location: Rotterdam. References: Bennema (1954); Berendsen et al. (2007); Hijma and Cohen (2010, 2019); Hijma et al. (2009); Jelgersma (1961); Kiden (1989, 1995); Louwe Kooijmans (1976); Louwe Kooijmans and van de Velde (1980); Slupik et al. (2013); van de Plassche (1982, 1995); van de Plassche et al. (2010); van Heteren et al. (2002); Vink et al. (2007); Vos (1992, 2013); Vos and Cohen (2014); Vos et al. (2010, 2011, 2015).

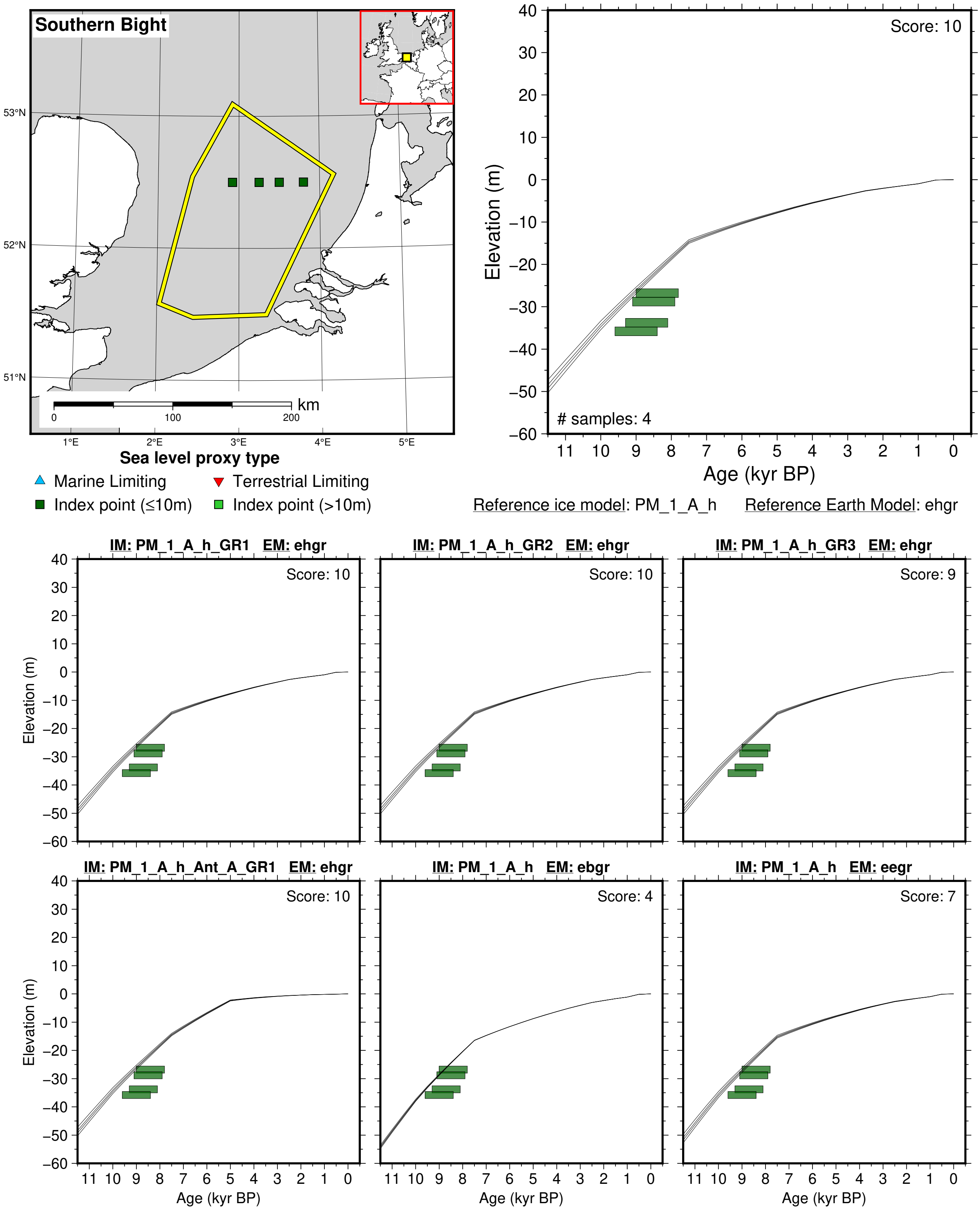

Figure 133: Paleo-sea level and comparison of six models for subregion: North Sea, location: Southern Bight. References: Jelgersma (1961); Kiden et al. (2002); Vink et al. (2007).

6.6.4 Skagerrak - Kattegat

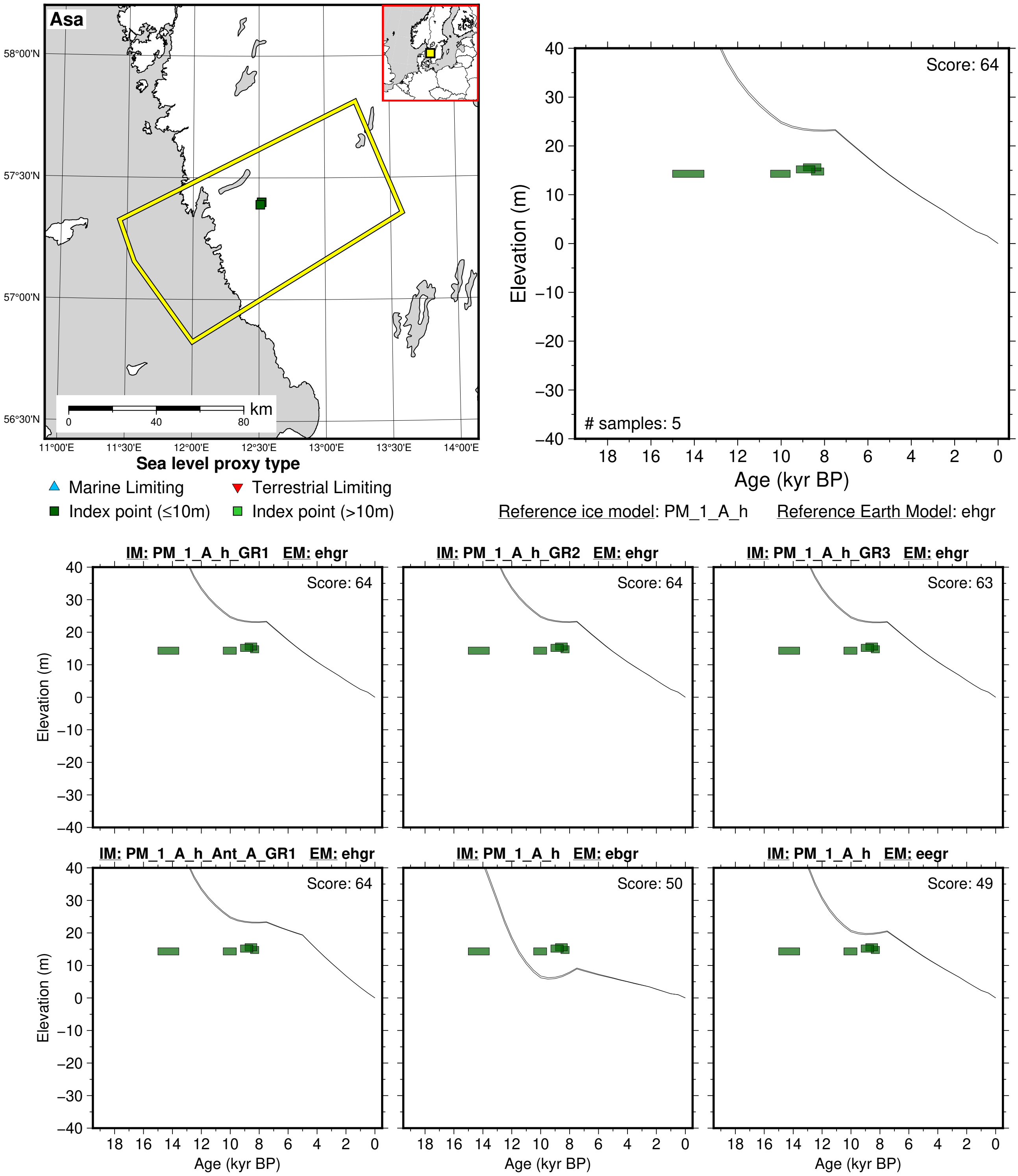

Figure 134: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Asa. References: Mörner (1969); Rosentau et al. (2021).

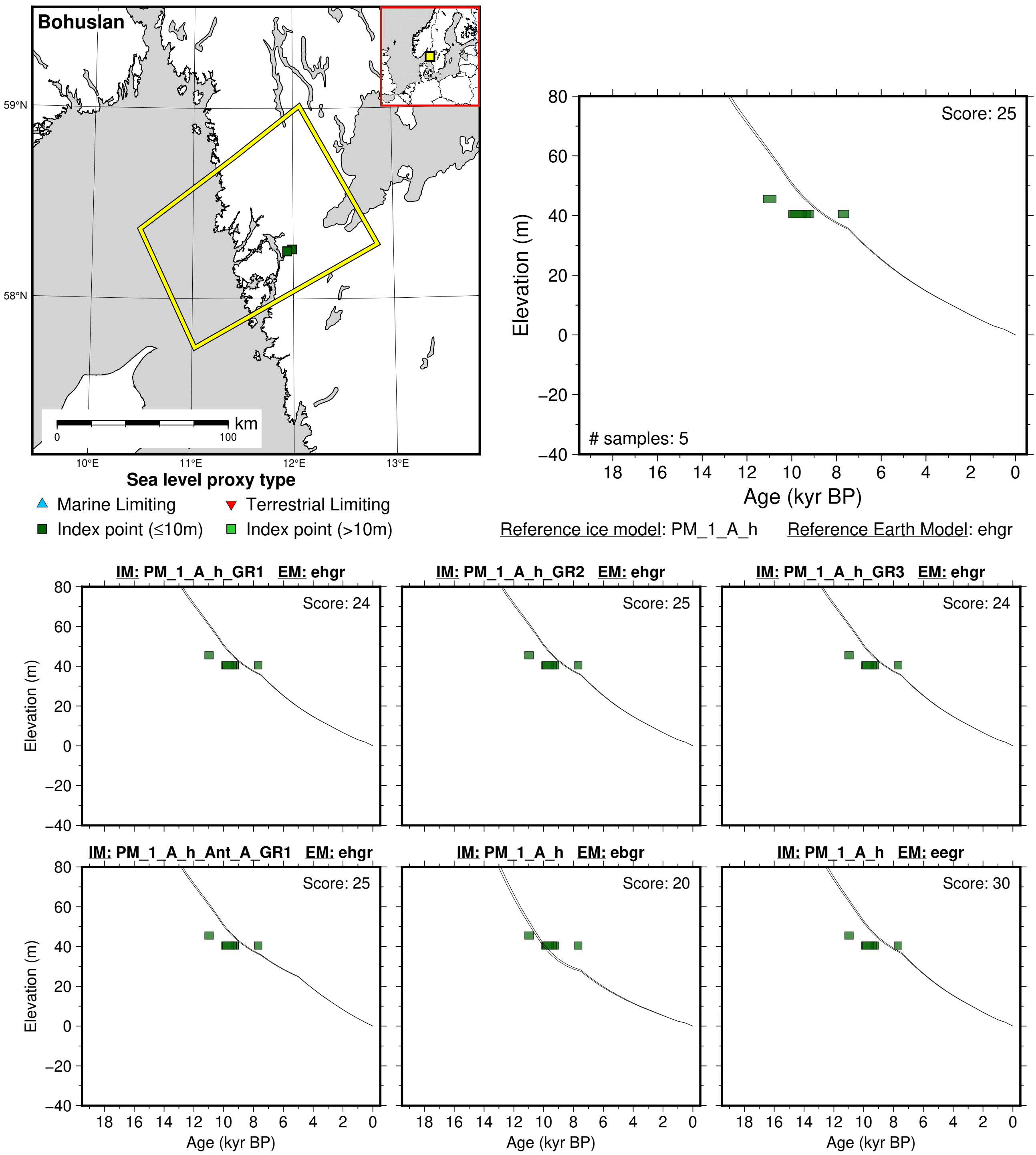

Figure 135: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Bohuslan. References: Persson (1973); Rosentau et al. (2021).

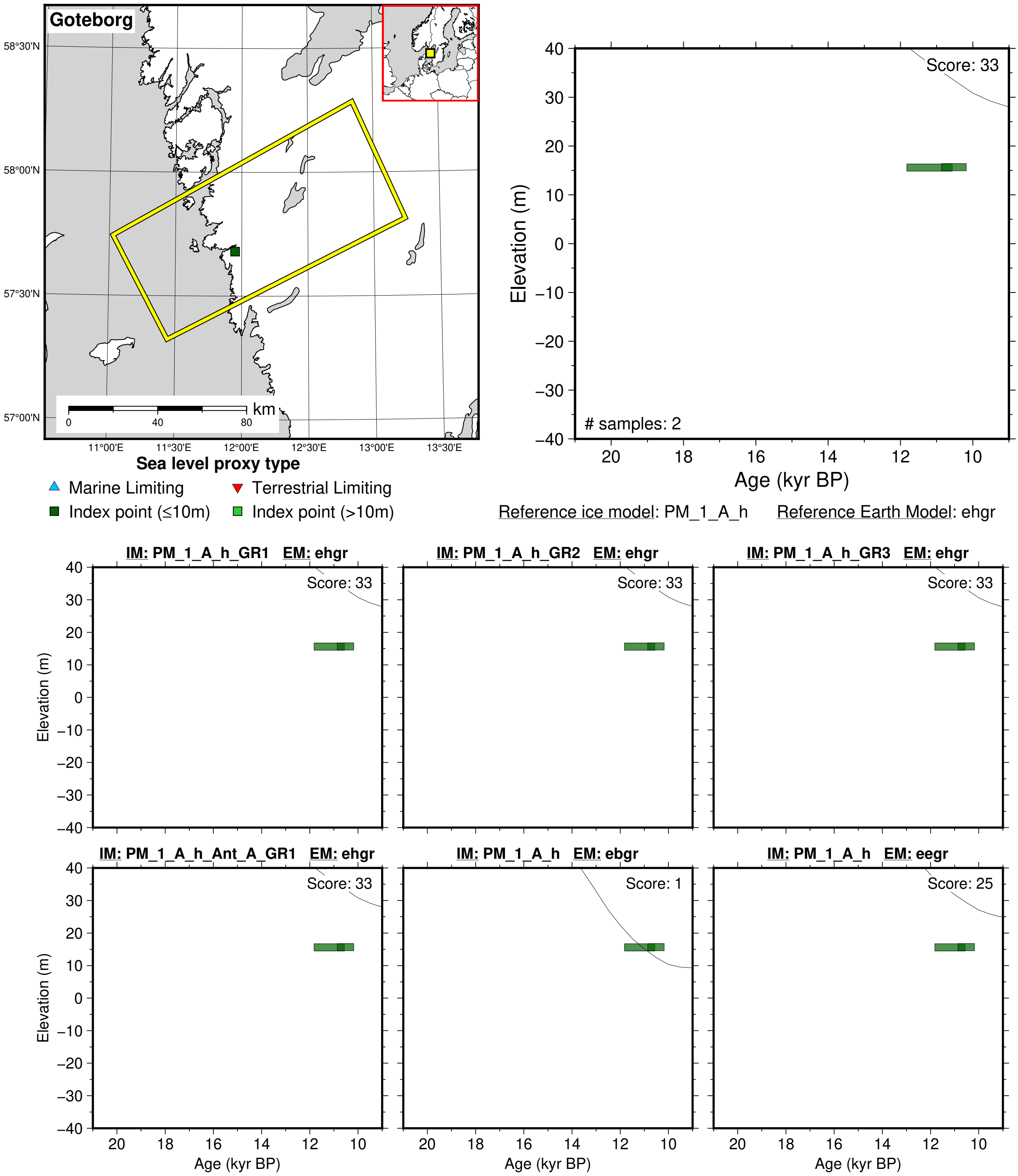

Figure 136: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Goteborg. References: Mörner (1969); Rosentau et al. (2021).

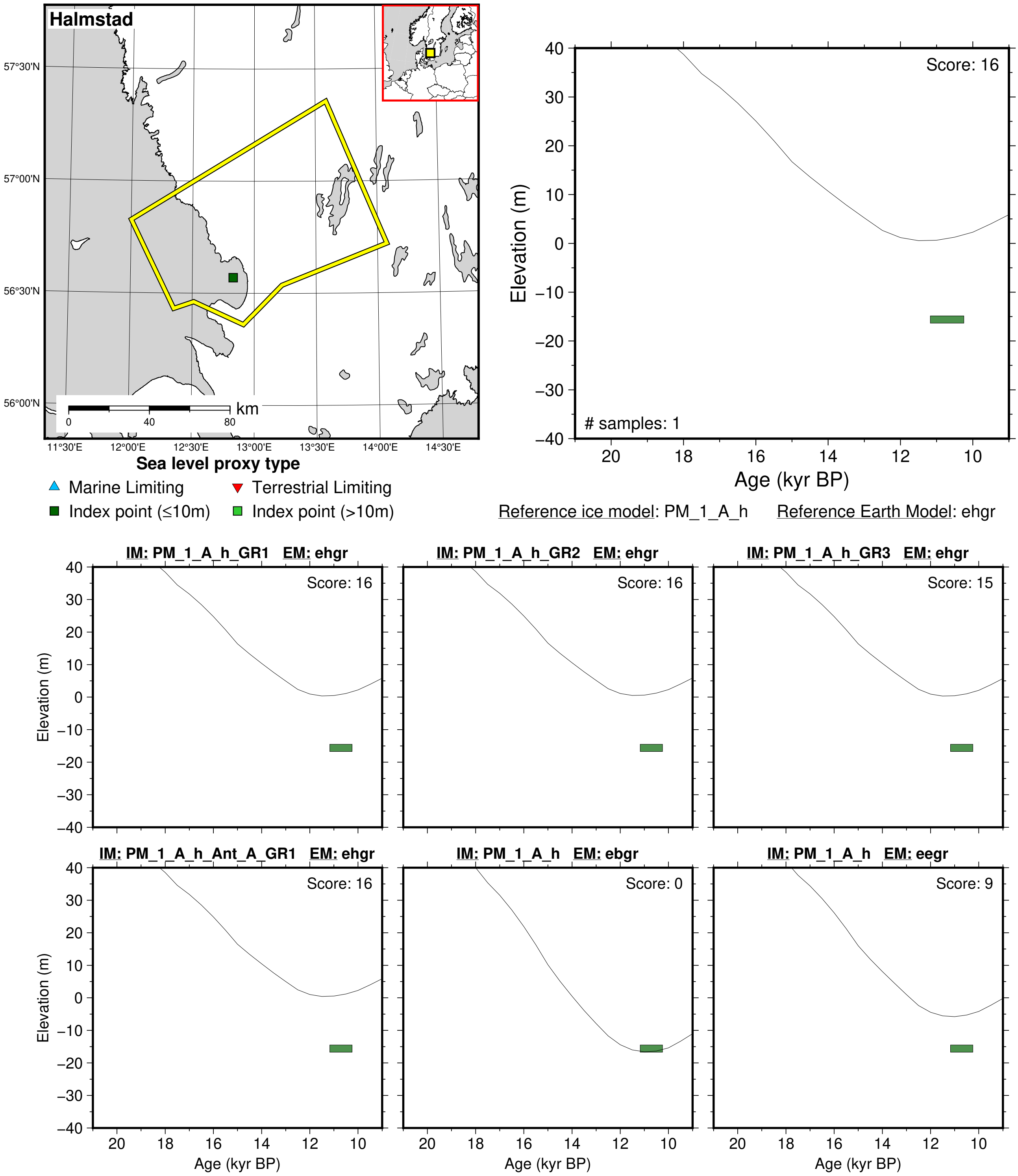

Figure 137: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Halmstad. References: Mörner (1969); Rosentau et al. (2021).

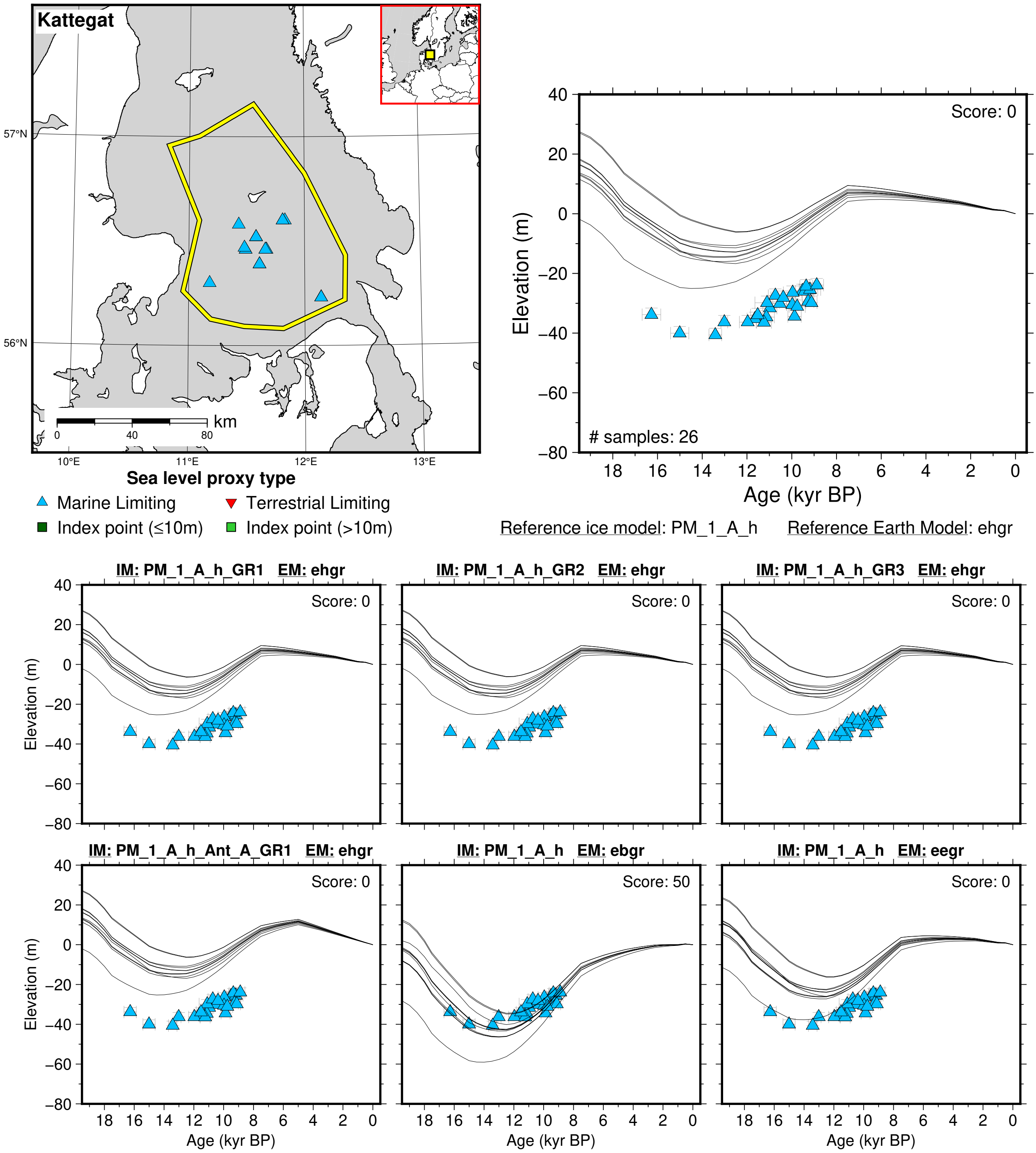

Figure 138: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Kattegat. References: Bendixen et al. (2017); Bennike et al. (2000); Christiansen et al. (1993); Jensen et al. (2002); Rosentau et al. (2021).

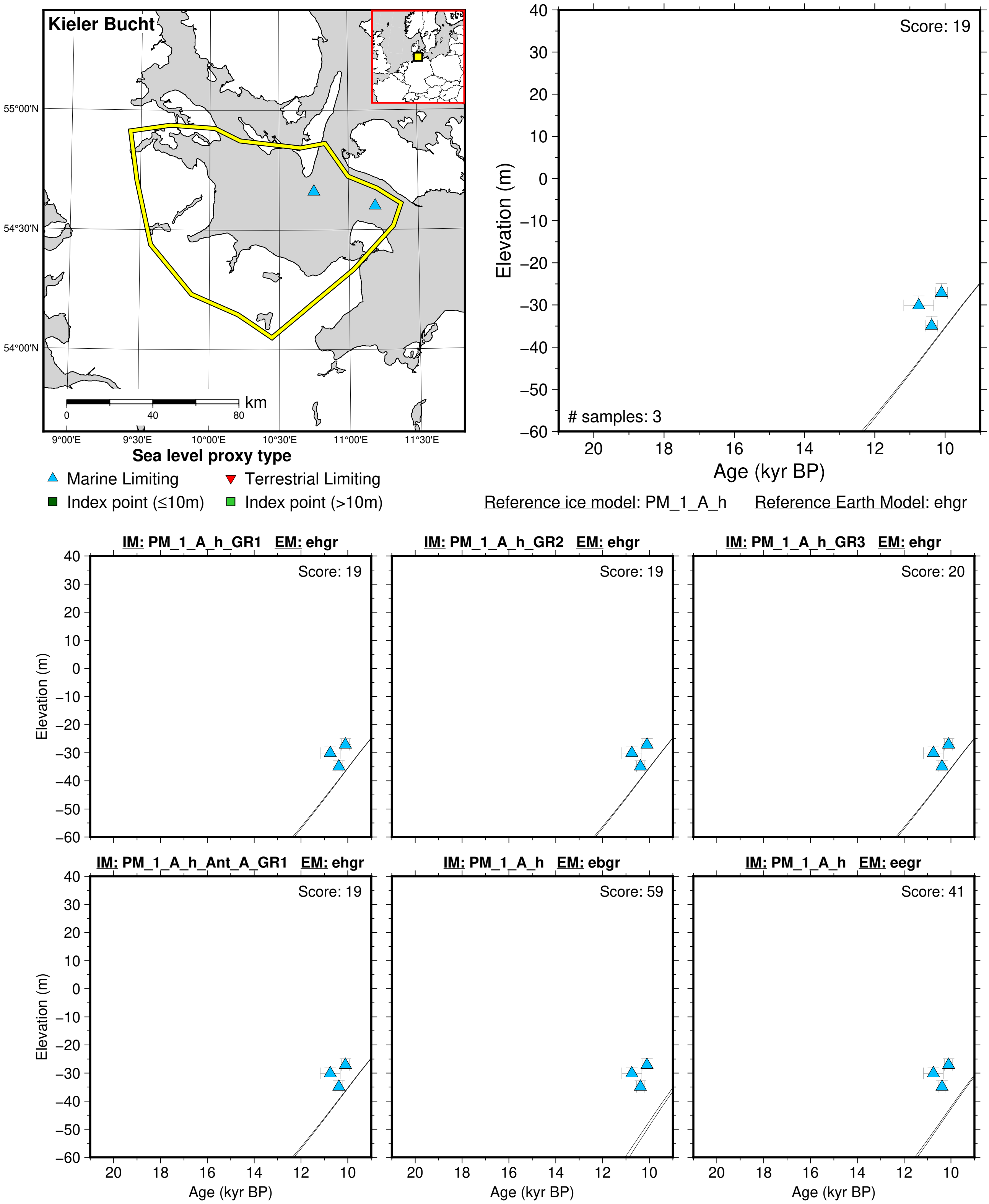

Figure 139: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Kieler Bucht. References: Bennike and Jensen (1998); Bennike et al. (2004); Rosentau et al. (2021).

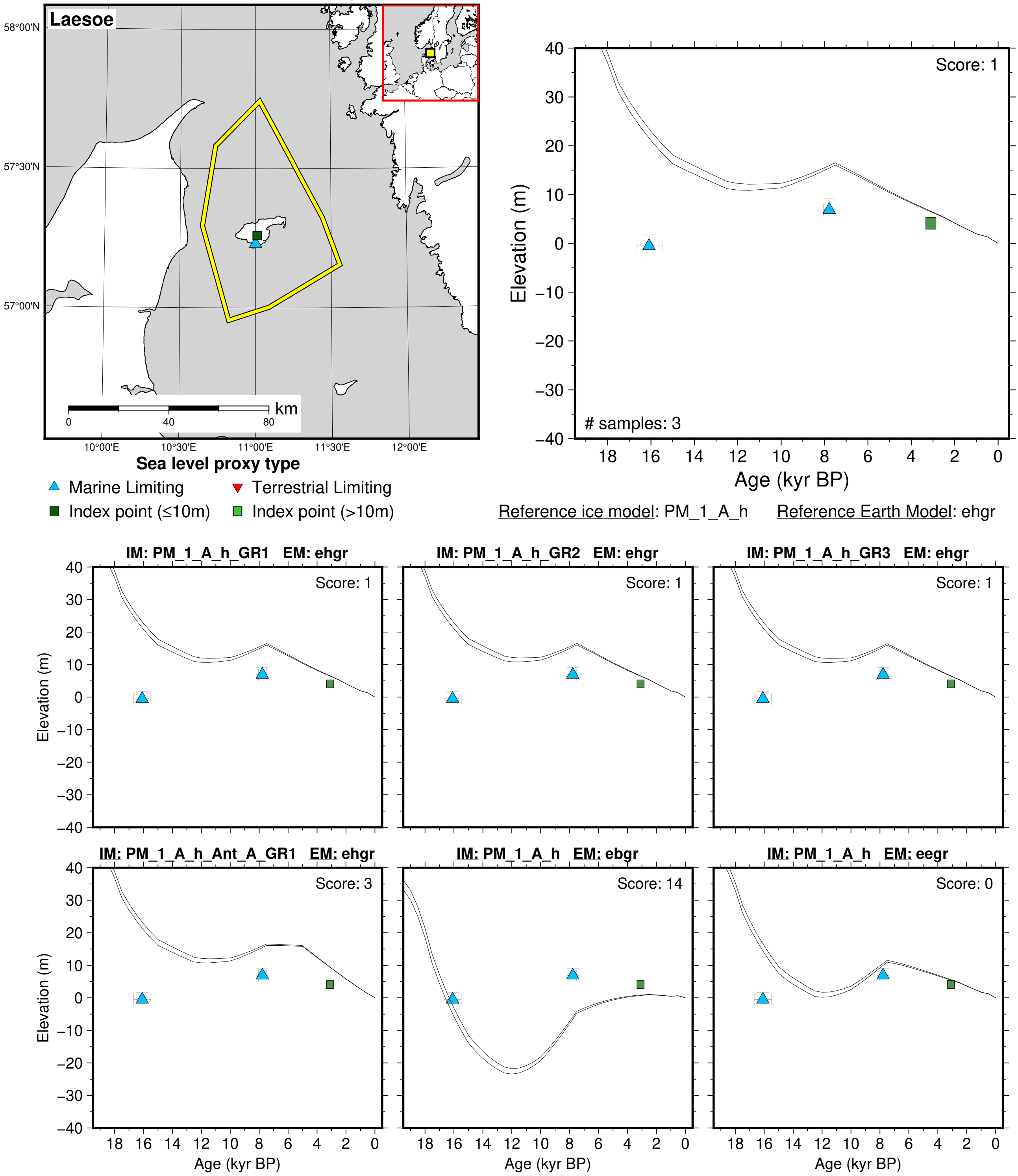

Figure 140: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Laesoe. References: Hansen (1977); Petersen and Rasmussen (1995); Rosentau et al. (2021).

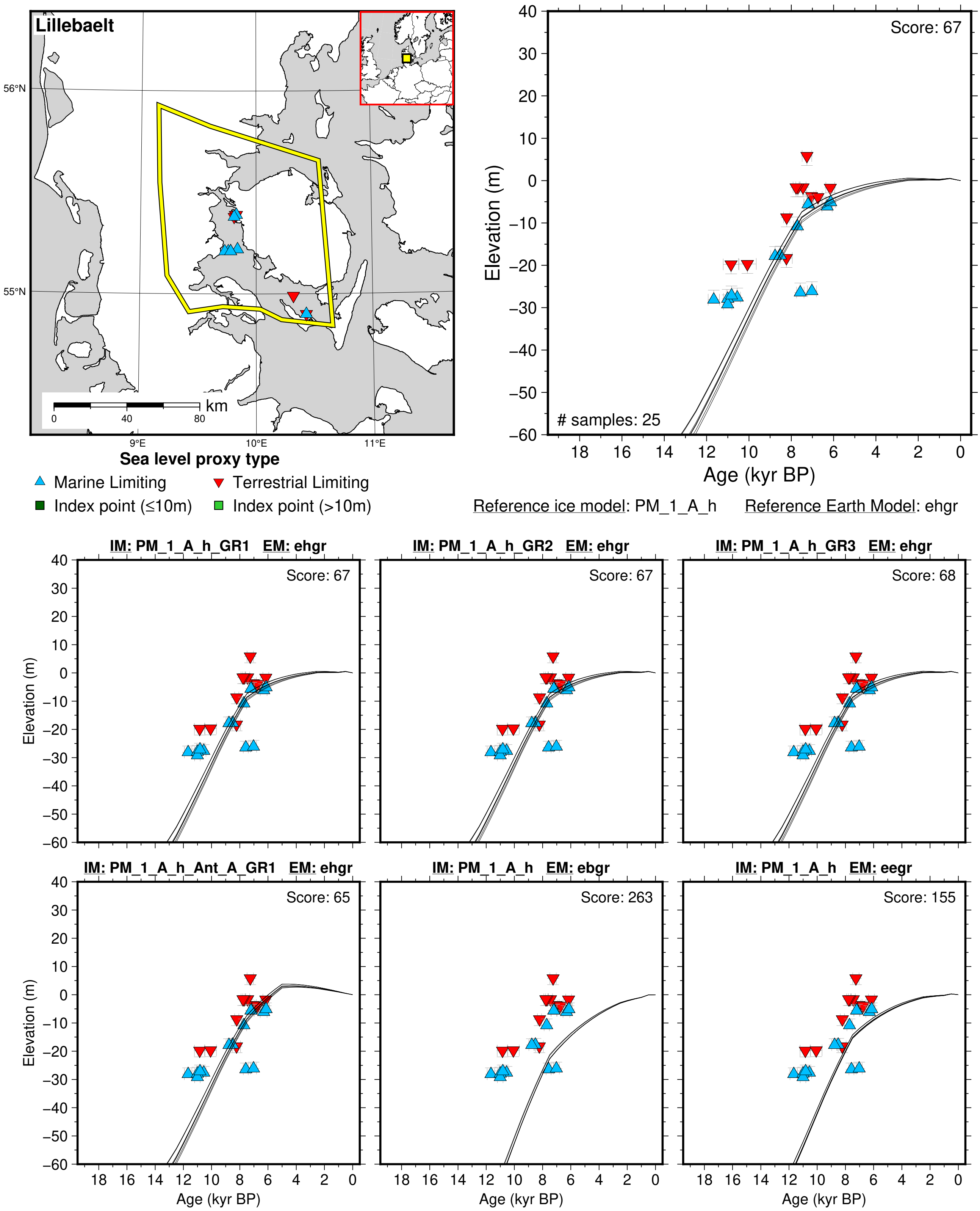

Figure 141: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Lillebaelt. References: Andersen (2013); Bennike and Jensen (2011); Krog (1979); Petersen and Rasmussen (1995); Rosentau et al. (2021); Skaarup and Grøn (2004); Tauber (1966).

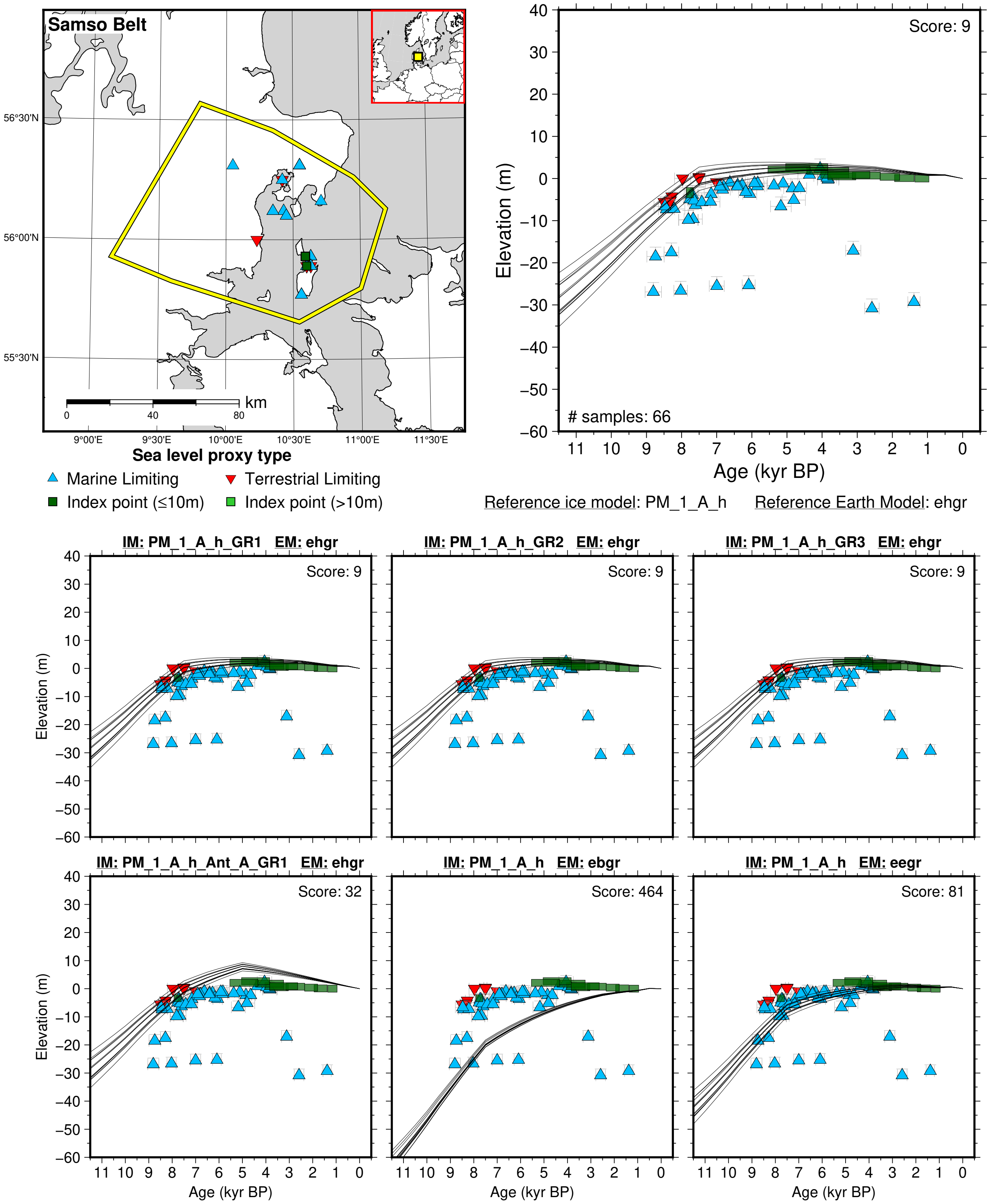

Figure 142: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Samso Belt. References: Fischer (2005); Hede et al. (2015); Jensen and Bennike (2009); Petersen (1993); Petersen and Rasmussen (1995); Rahbek and Rasmussen (1994); Rasmussen (1995); Rosentau et al. (2021); Sander et al. (2015).

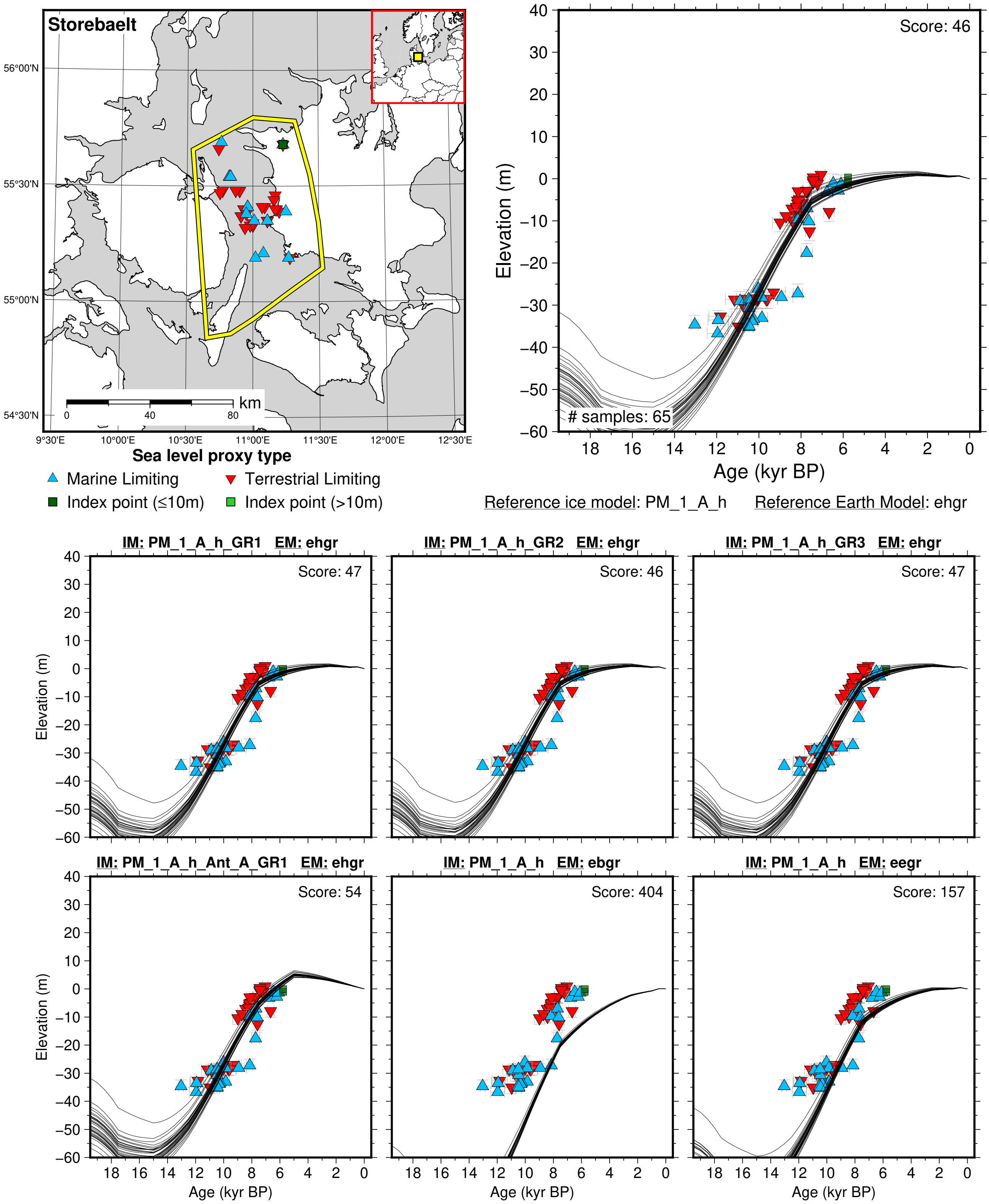

Figure 143: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Storebaelt. References: Bennike et al. (2004); Christensen et al. (1997); Hede (2003); Krog (1979); Petersen (1978); Rosentau et al. (2021); Winn et al. (1986).

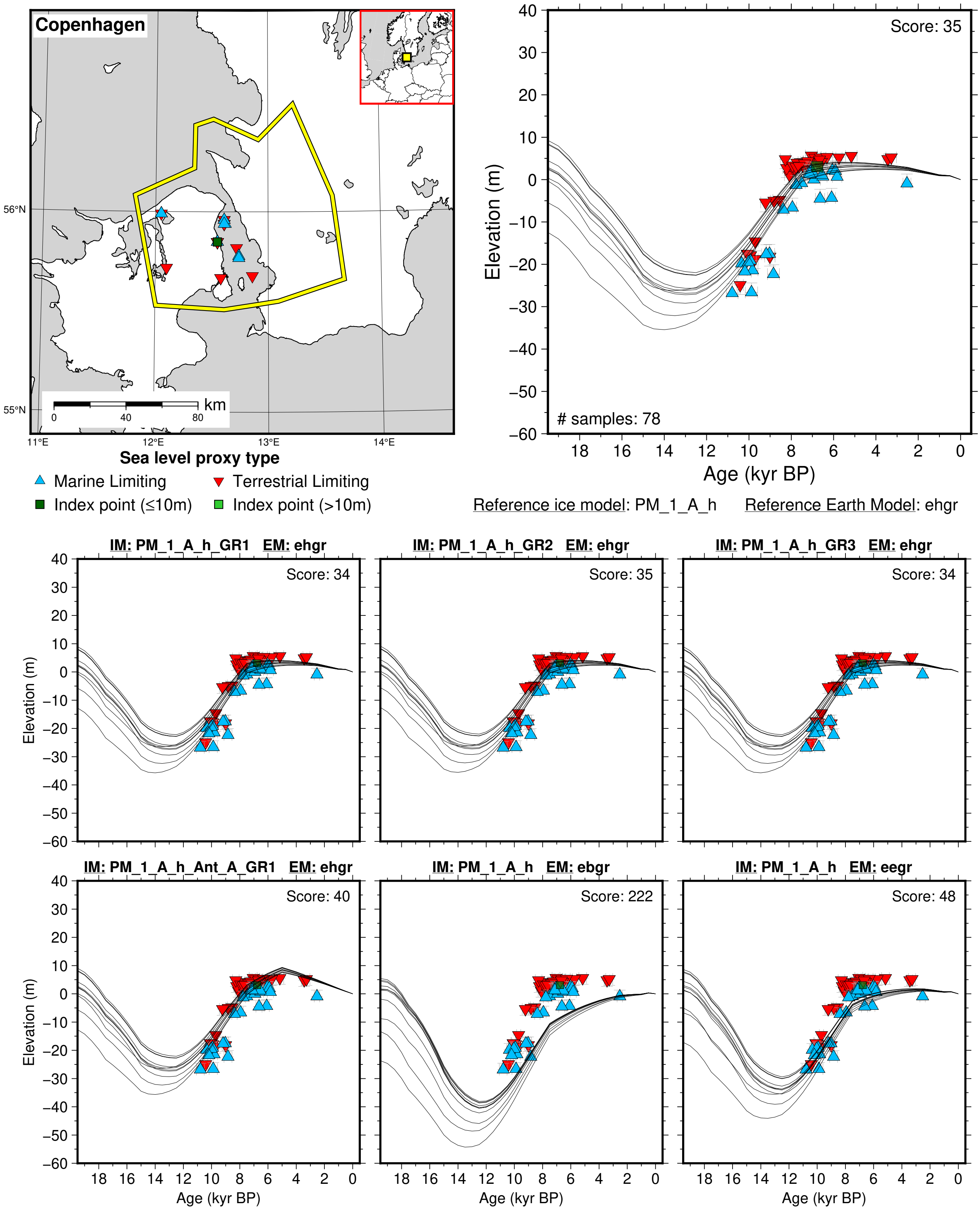

Figure 144: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Copenhagen. References: Bennike et al. (2012, 2017); Christensen (1982, 2014); Fischer (1993); Rasmussen (1992); Rosentau et al. (2021).

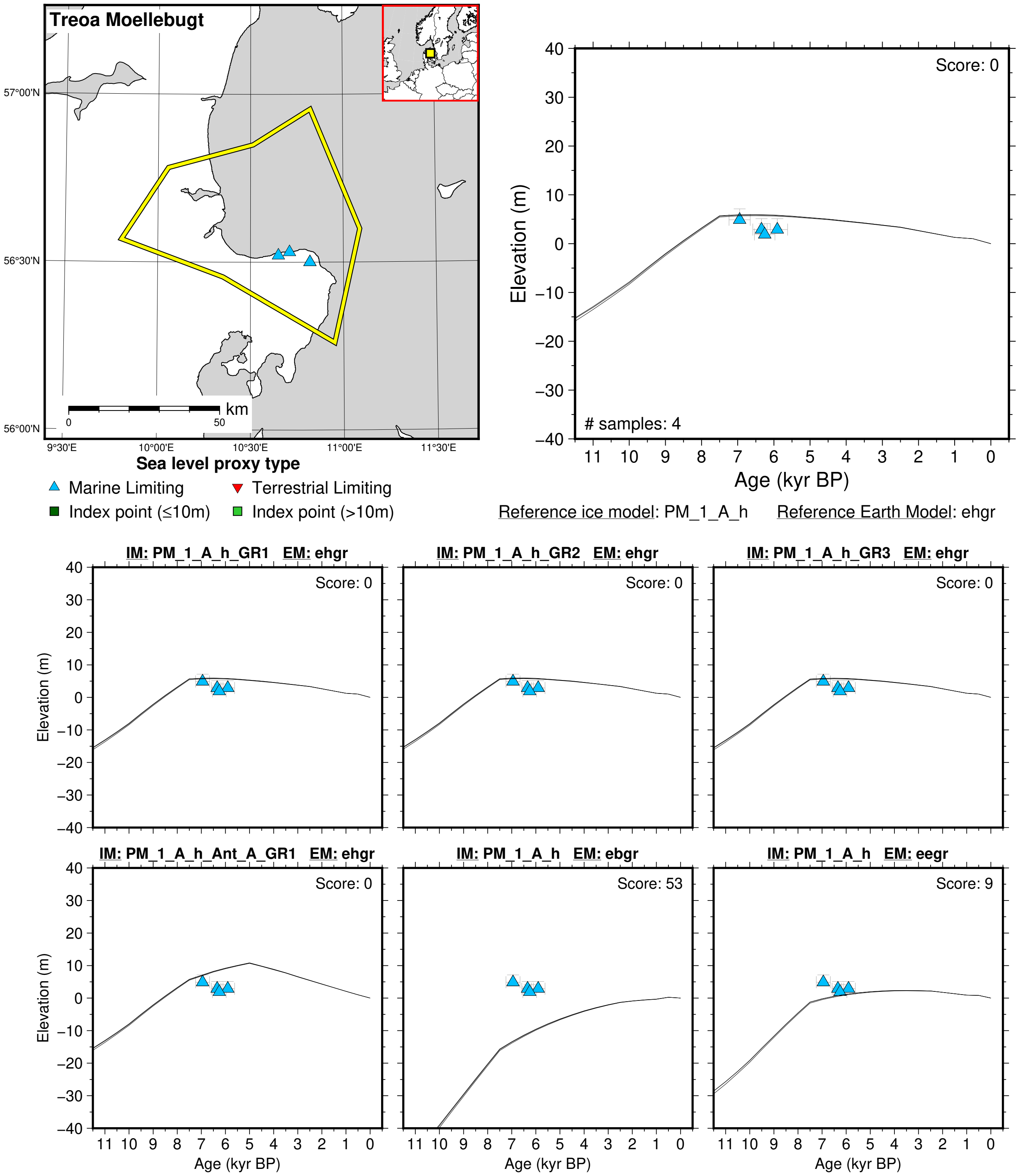

Figure 145: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Treoa Moellebugt. References: Petersen and Rasmussen (1995); Rosentau et al. (2021).

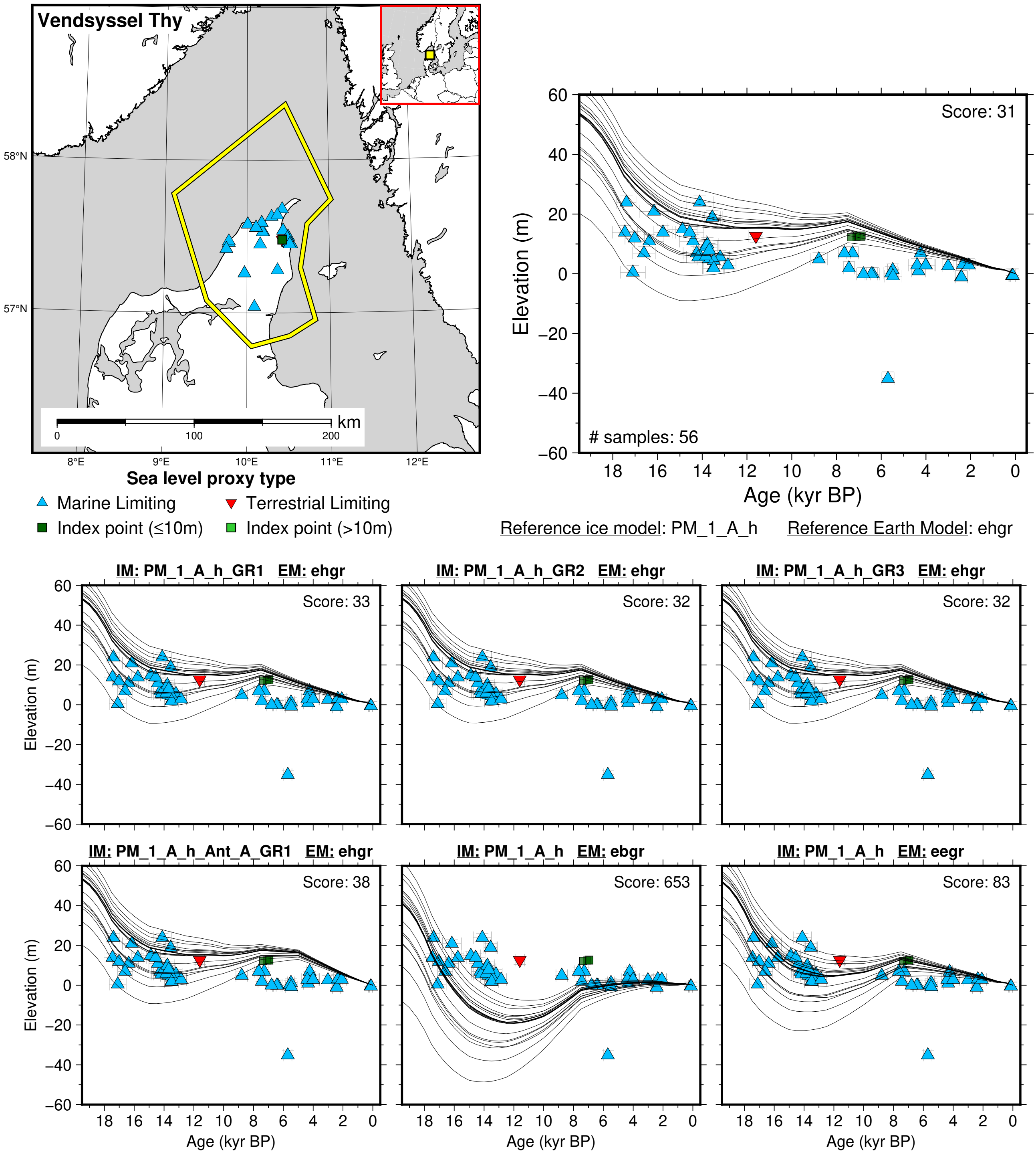

Figure 146: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Vendsyssel Thy. References: Aaris-Sørensen and Petersen (1984); Christensen and Nielsen (2008); Knudsen (1978); Krog and Tauber (1974); Petersen (1991); Petersen and Rasmussen (1995); Richardt (1996); Rosentau et al. (2021).

6.6.5 South Baltic

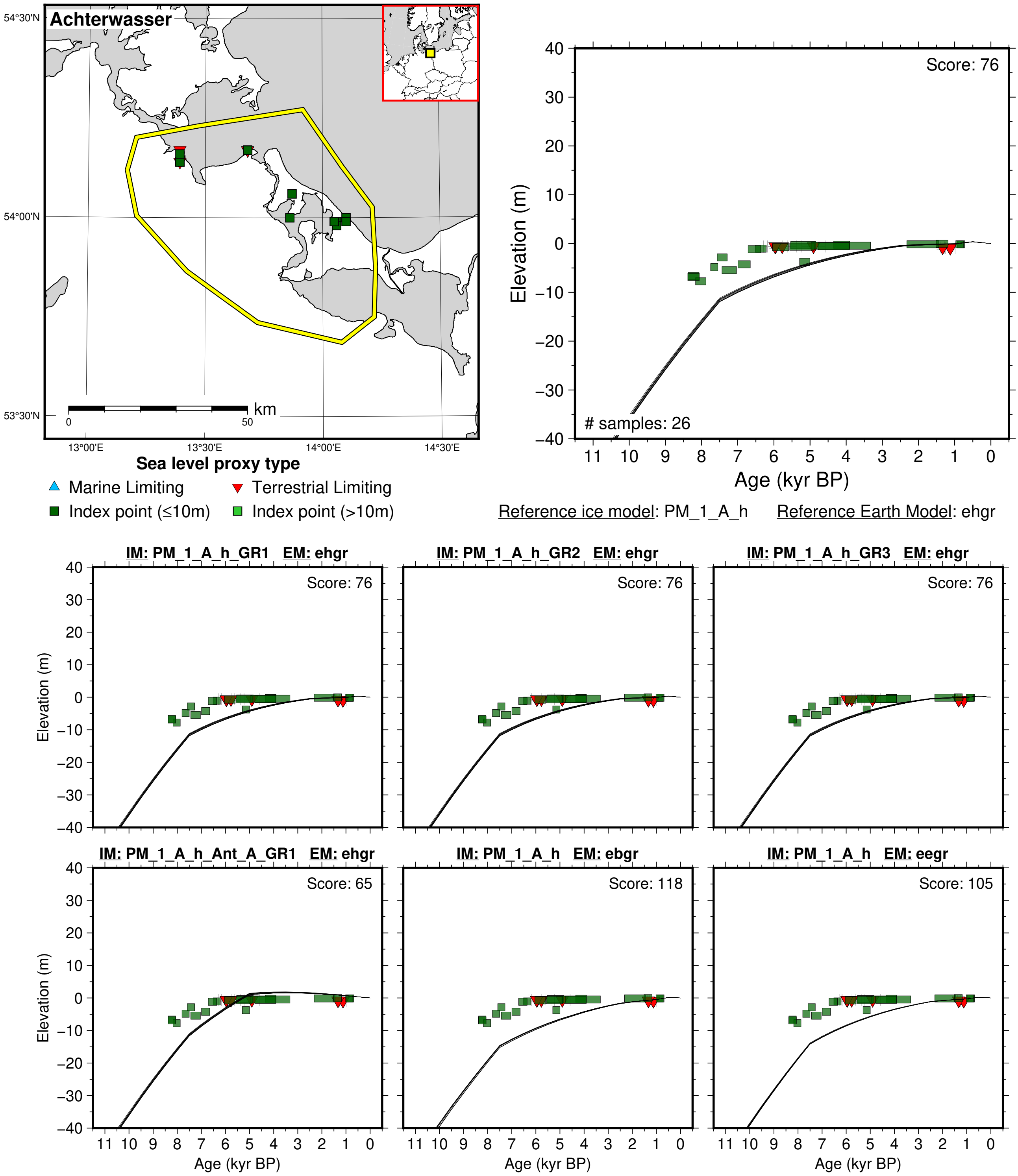

Figure 147: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Achterwasser. References: Hoffmann et al. (2009); Lampe and Janke (2004); Rosentau et al. (2021).

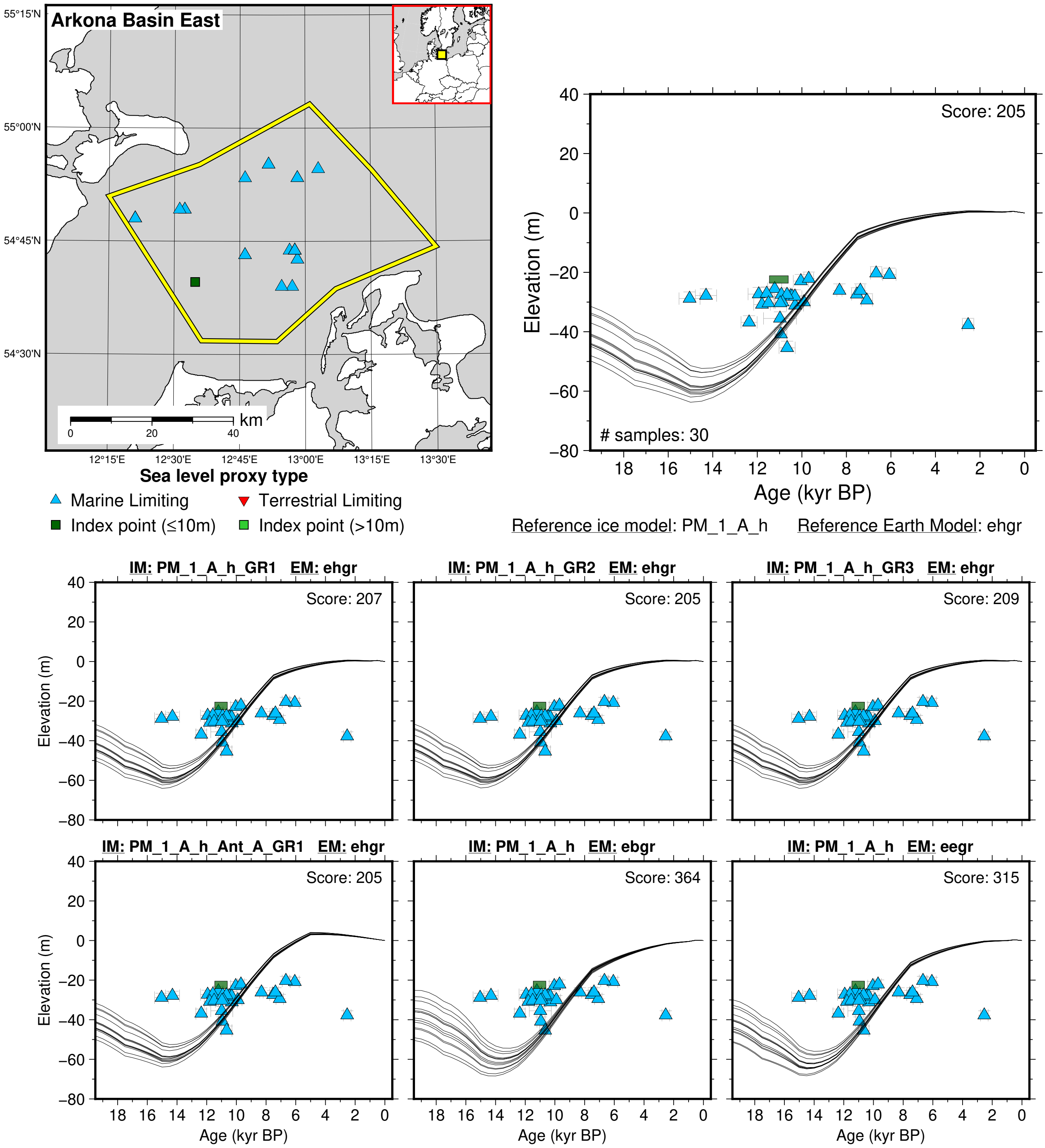

Figure 148: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Arkona Basin East. References: Bennike and Jensen (1998); Jensen et al. (1997); Rosentau et al. (2021).

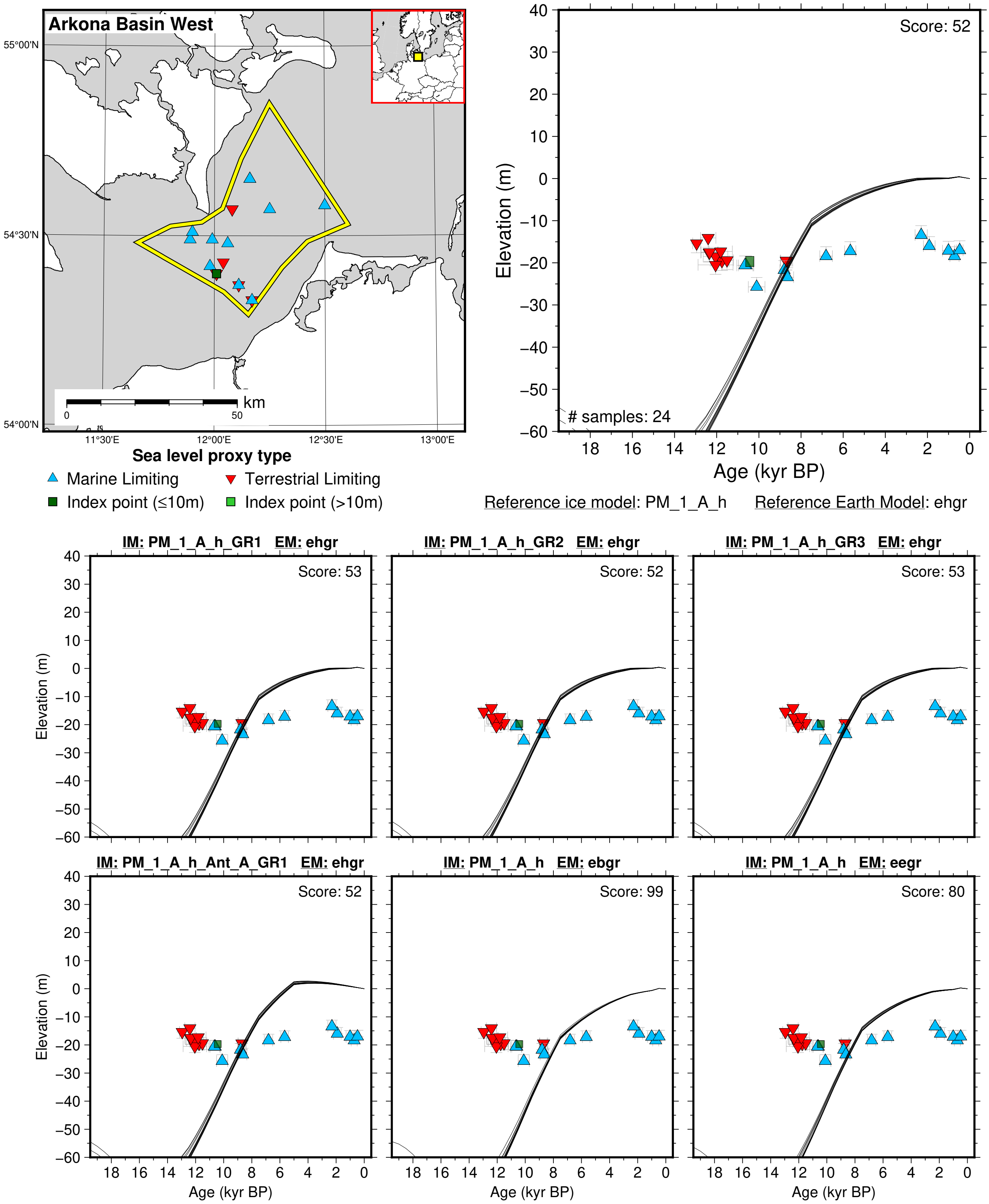

Figure 149: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Arkona Basin West. References: Bennike and Jensen (1998); Jensen et al. (1997); Rosentau et al. (2021).

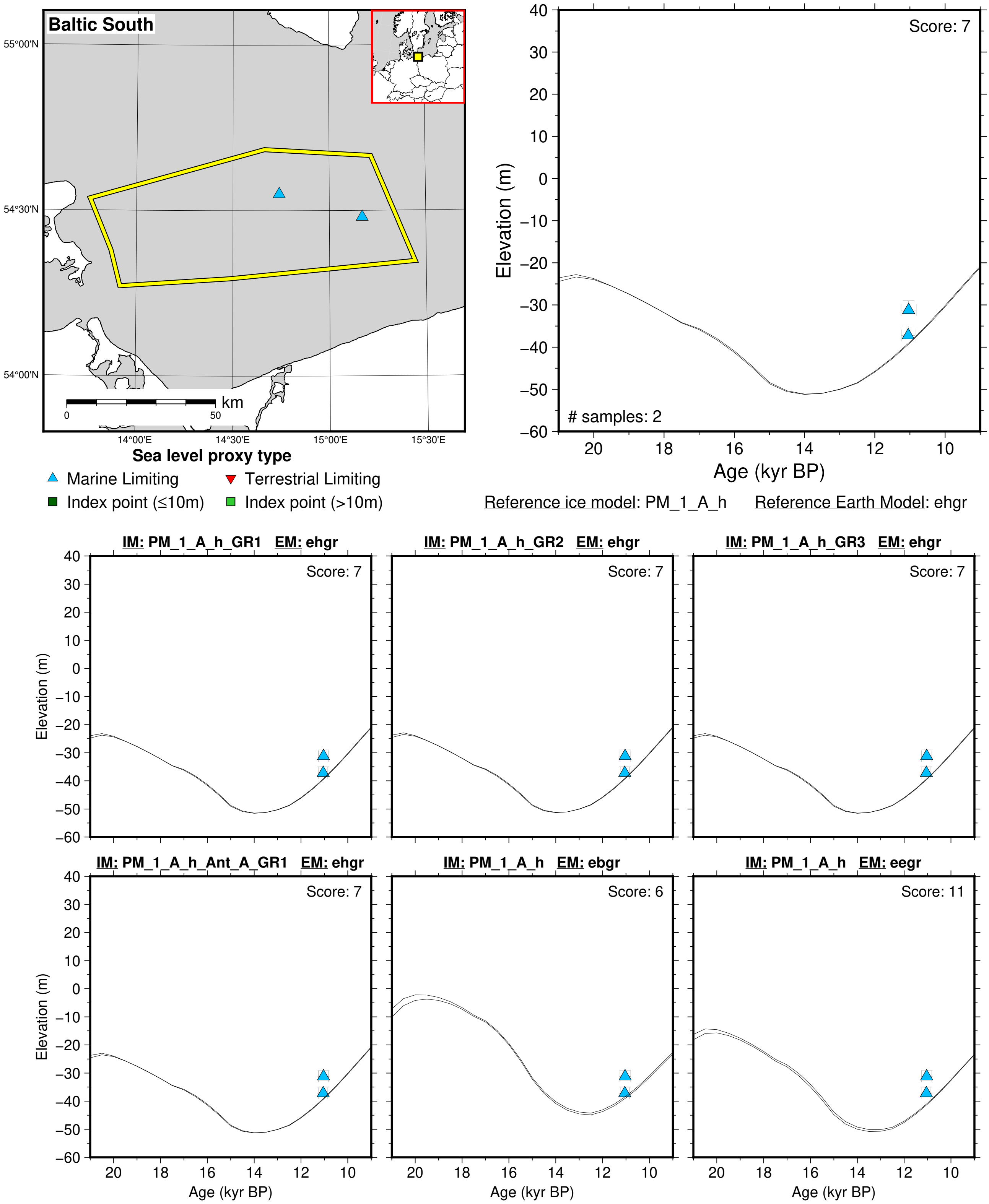

Figure 150: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Baltic South. References: Bennike and Lemke (2001); Rosentau et al. (2021).

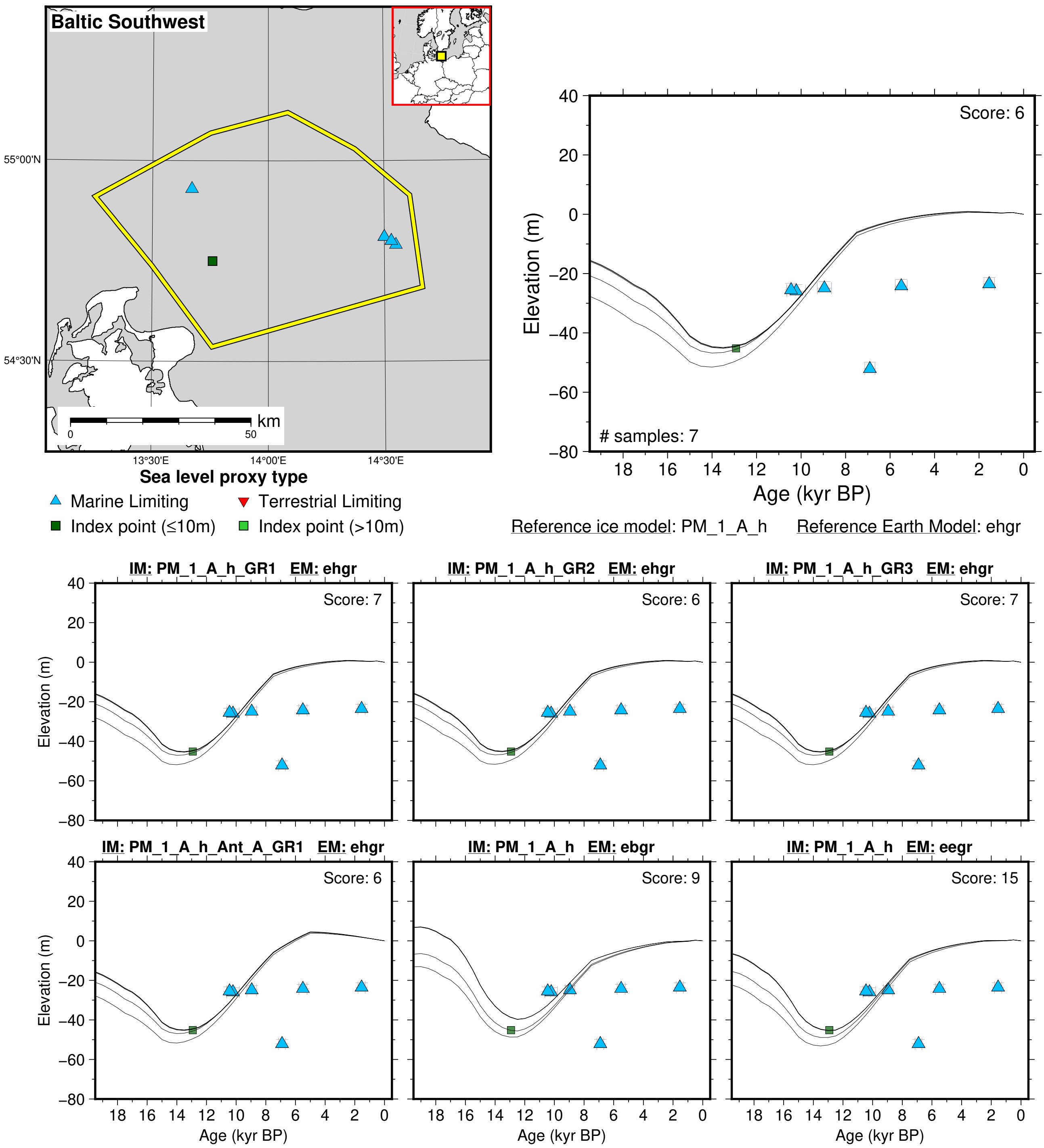

Figure 151: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Baltic Southwest. References: Bennike and Jensen (1998, 2013); Nielsen et al. (2004); Rosentau et al. (2021).

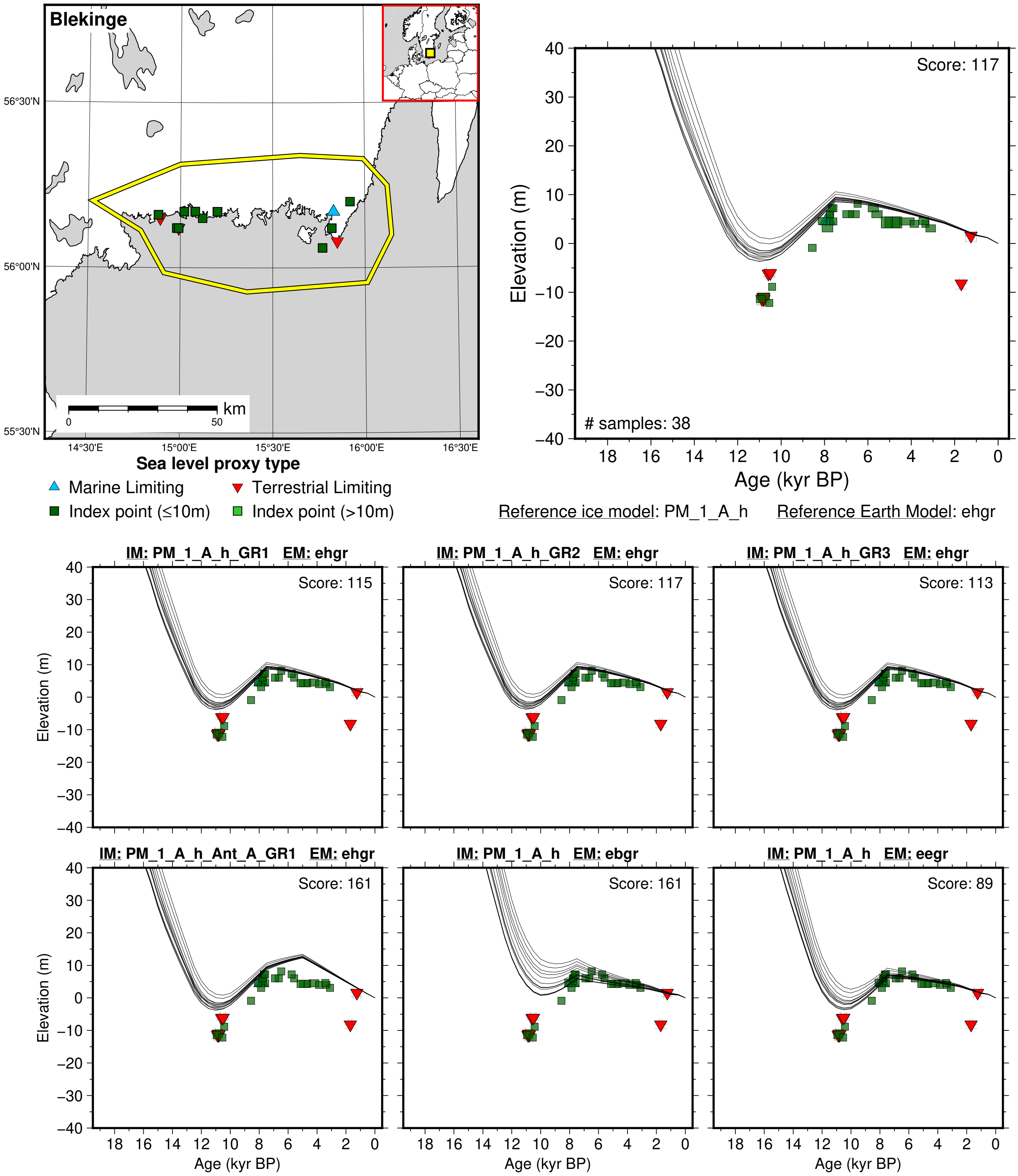

Figure 152: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Blekinge. References: Berglund (1964, 1971); Hansson (2018); Hansson et al. (2019); Liljegren (1970); Nylander (1969); Rosentau et al. (2021); Yu et al. (2003, 2005, 2007).

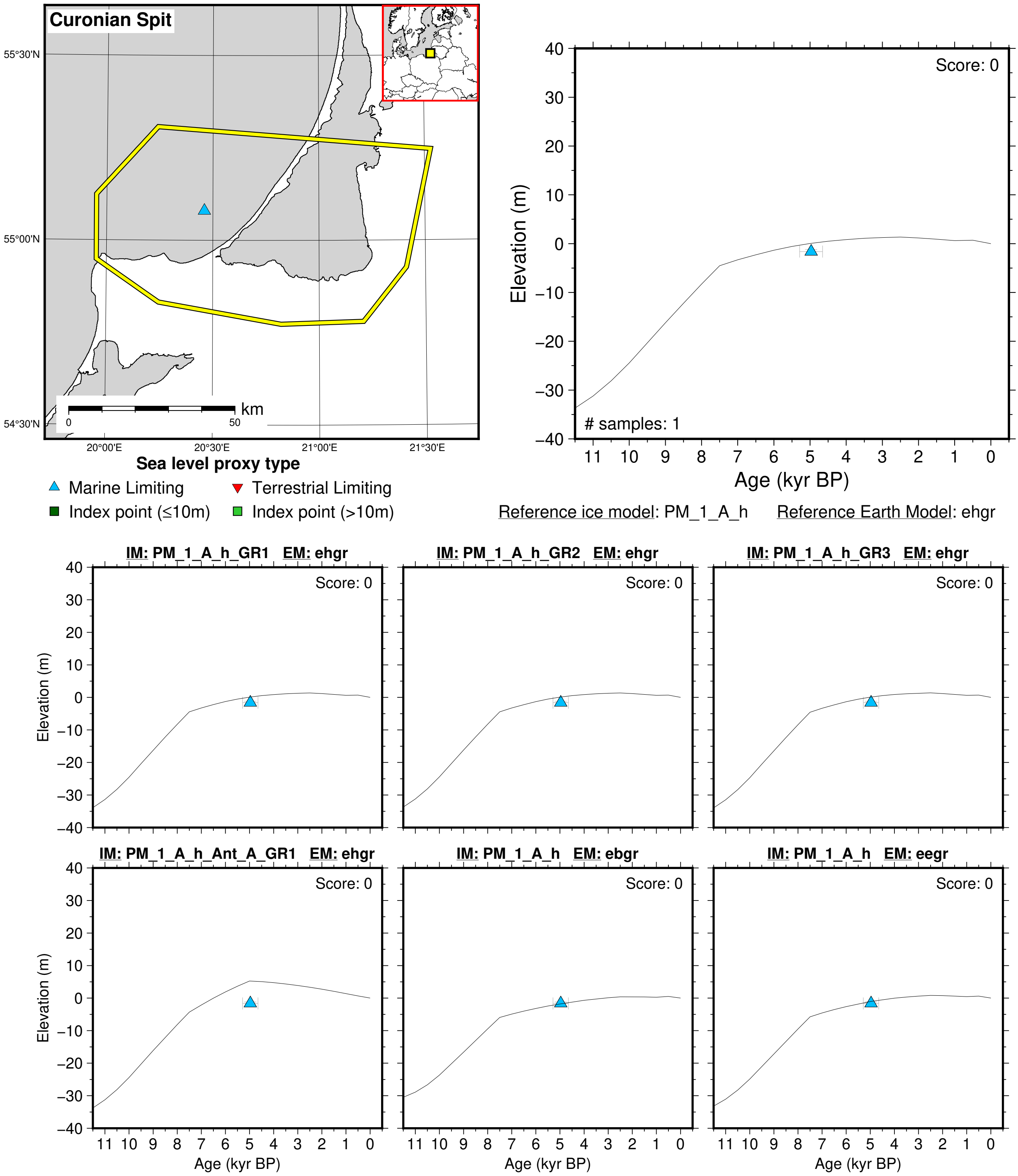

Figure 153: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Curonian Spit. References: Rosentau et al. (2021); Sergeev et al. (2015).

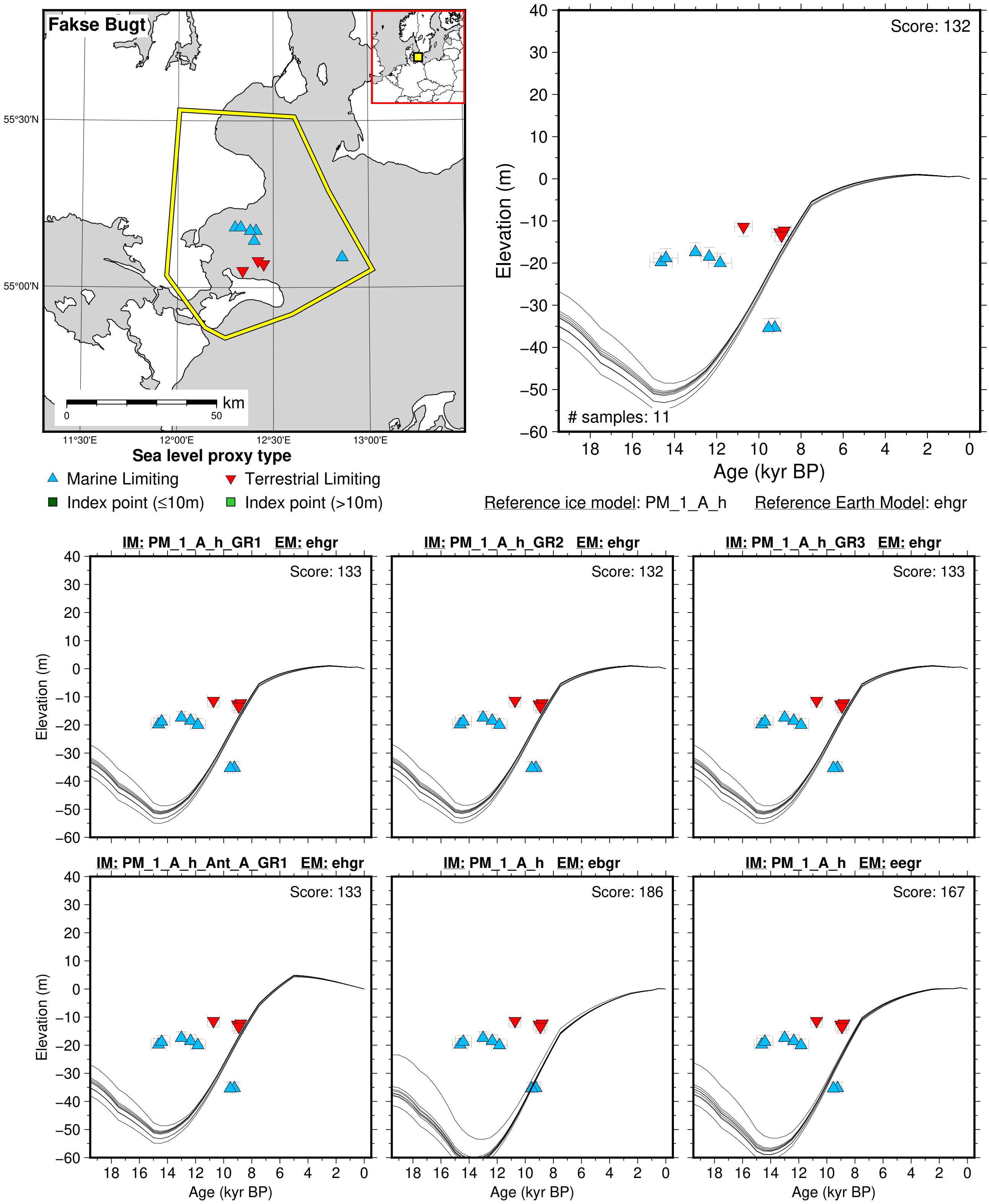

Figure 154: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Fakse Bugt. References: Bennike and Jensen (1995, 1998); Jensen and Stecher (1992); Rosentau et al. (2021).

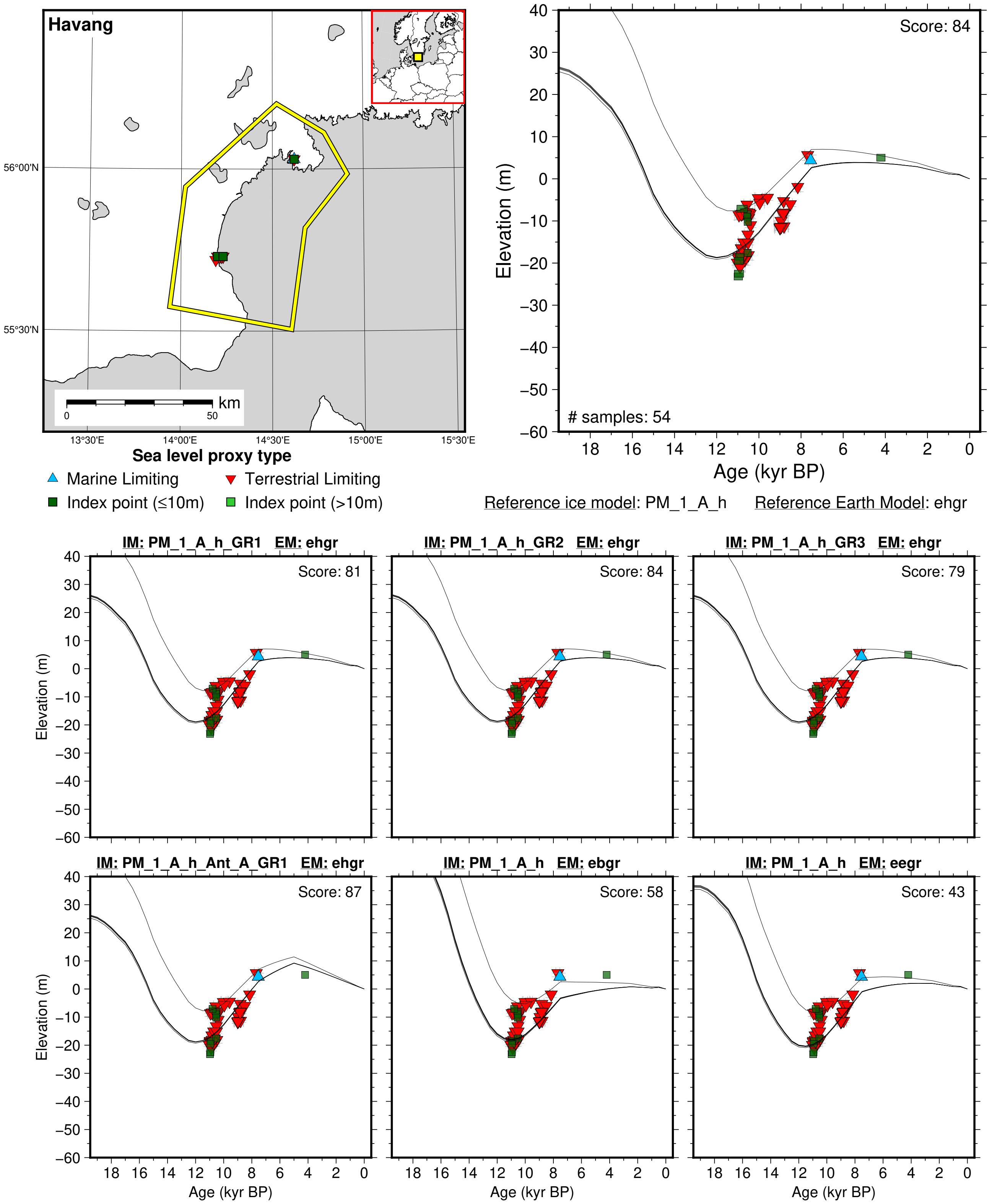

Figure 155: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Havang. References: Berglund (1971); Hansson (2018); Hansson et al. (2018a,b); Rosentau et al. (2021).

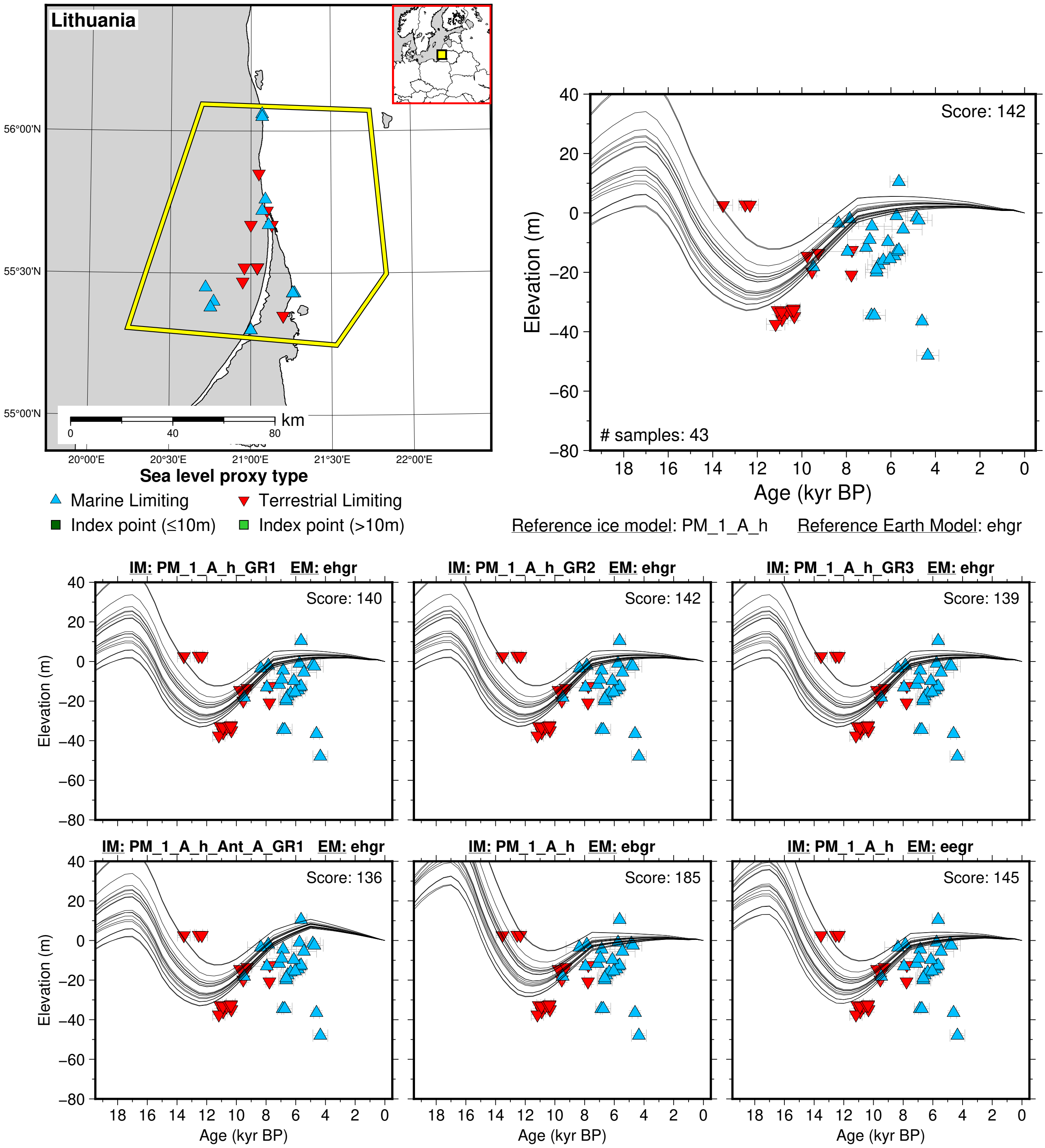

Figure 156: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Lithuania. References: Bitinas et al. (2000, 2001, 2002, 2003, 2017); Damušytė (2011); Gelumbauskaitė (2009); Girininkas and Žulkus (2017); Rosentau et al. (2021); Trimonis et al. (2007); Žulkus and Girininkas (2012).

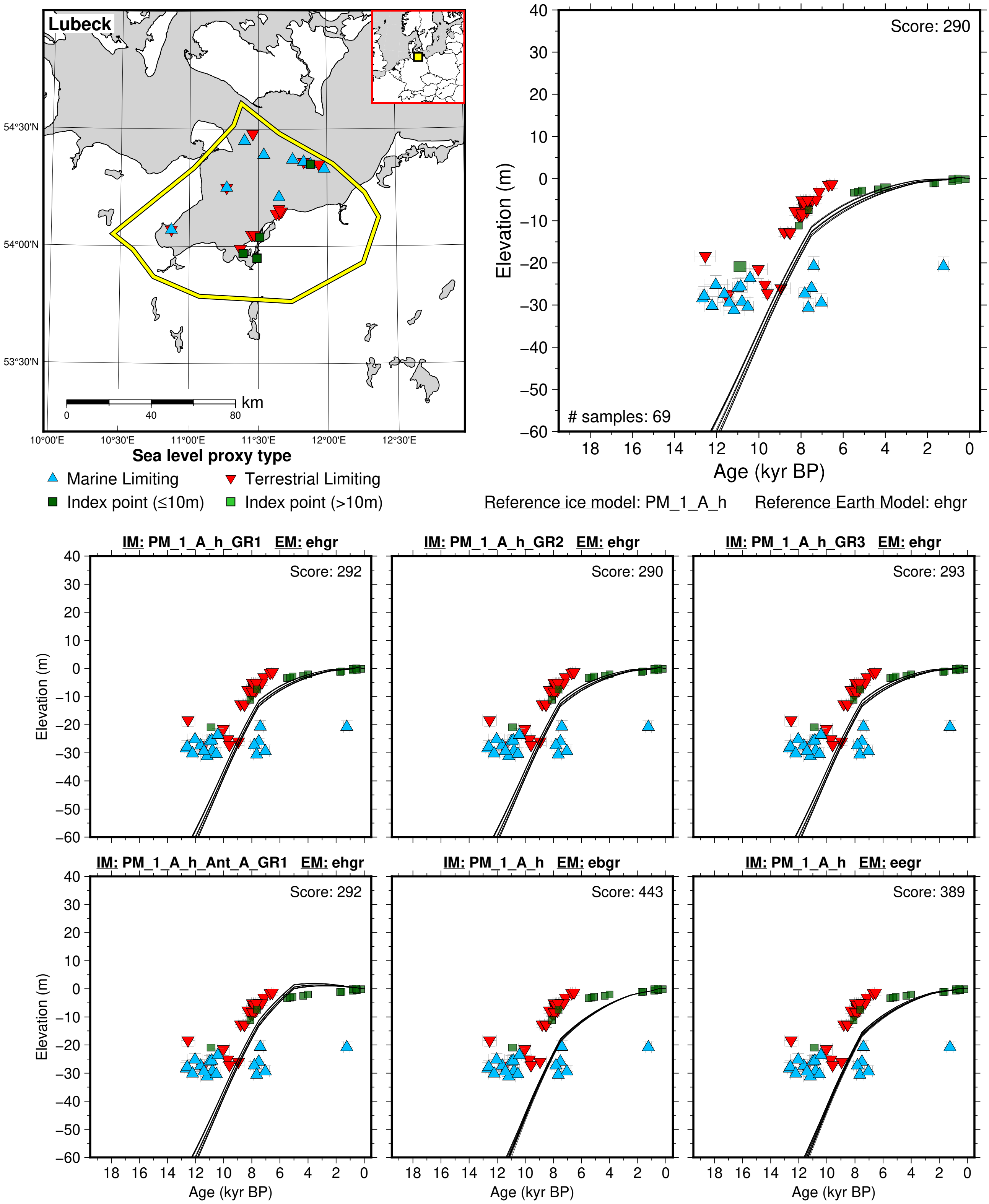

Figure 157: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Lubeck. References: Bennike and Jensen (1998); Bennike and Lemke (2001); Harders et al. (2005); Heinrich et al. (2018); Jensen et al. (1997, 2002); Lampe et al. (2010); Rosentau et al. (2021); Winn et al. (1986).

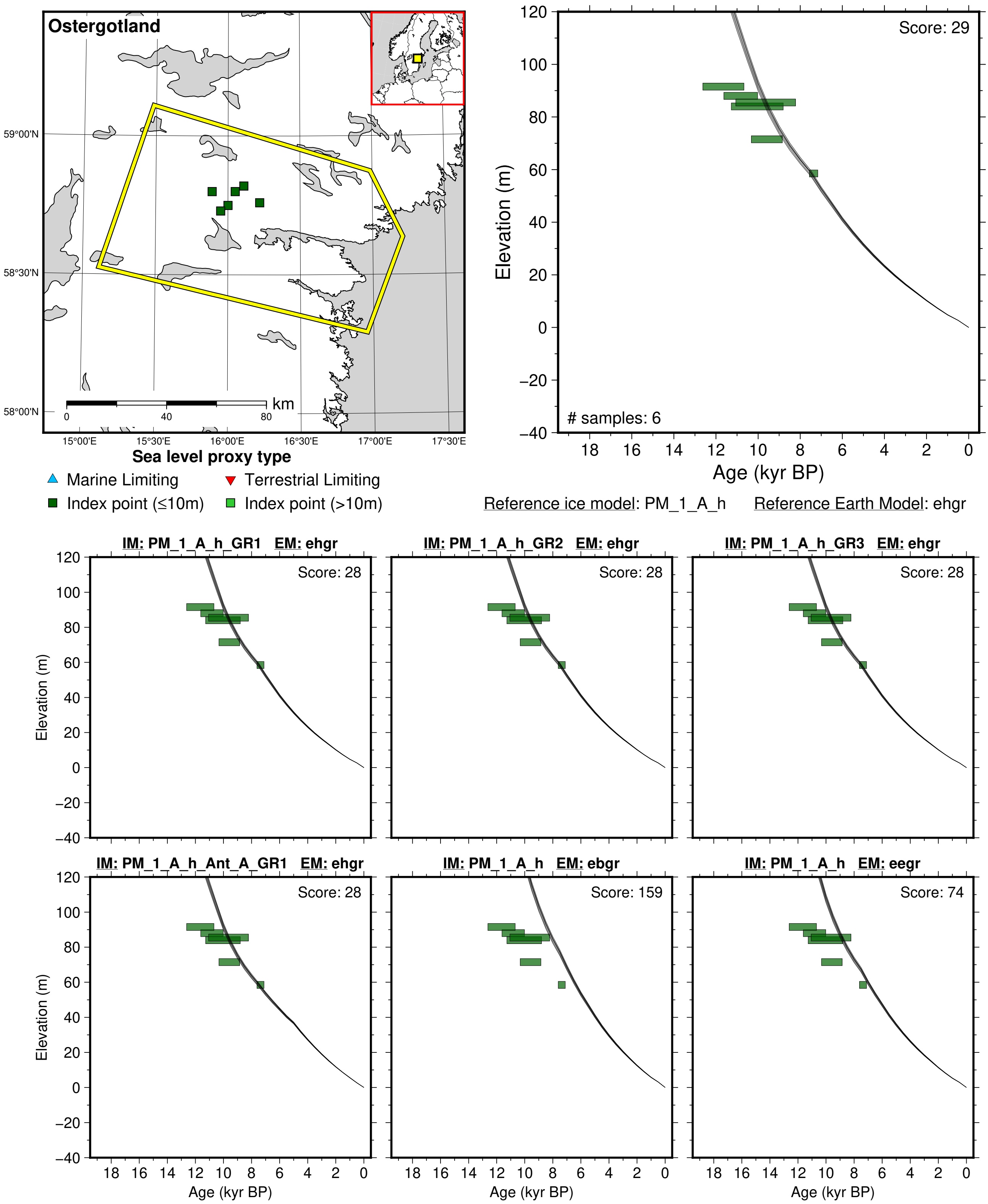

Figure 158: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Ostergotland. References: Persson (1979); Rosentau et al. (2021).

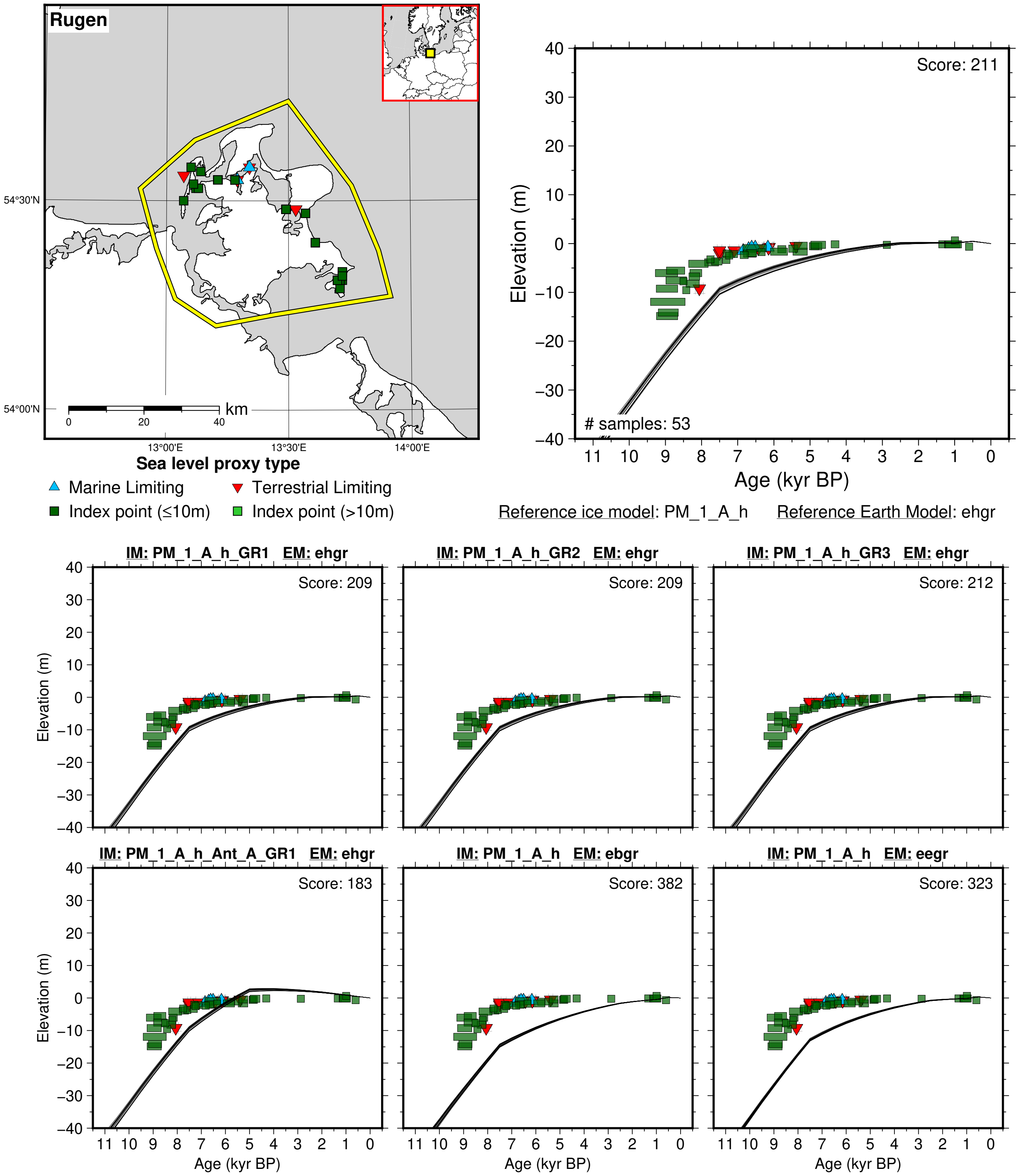

Figure 159: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Rugen. References: Hoffmann et al. (2009); Lampe et al. (2010); Naumann and Lampe (2011); Rosentau et al. (2021).

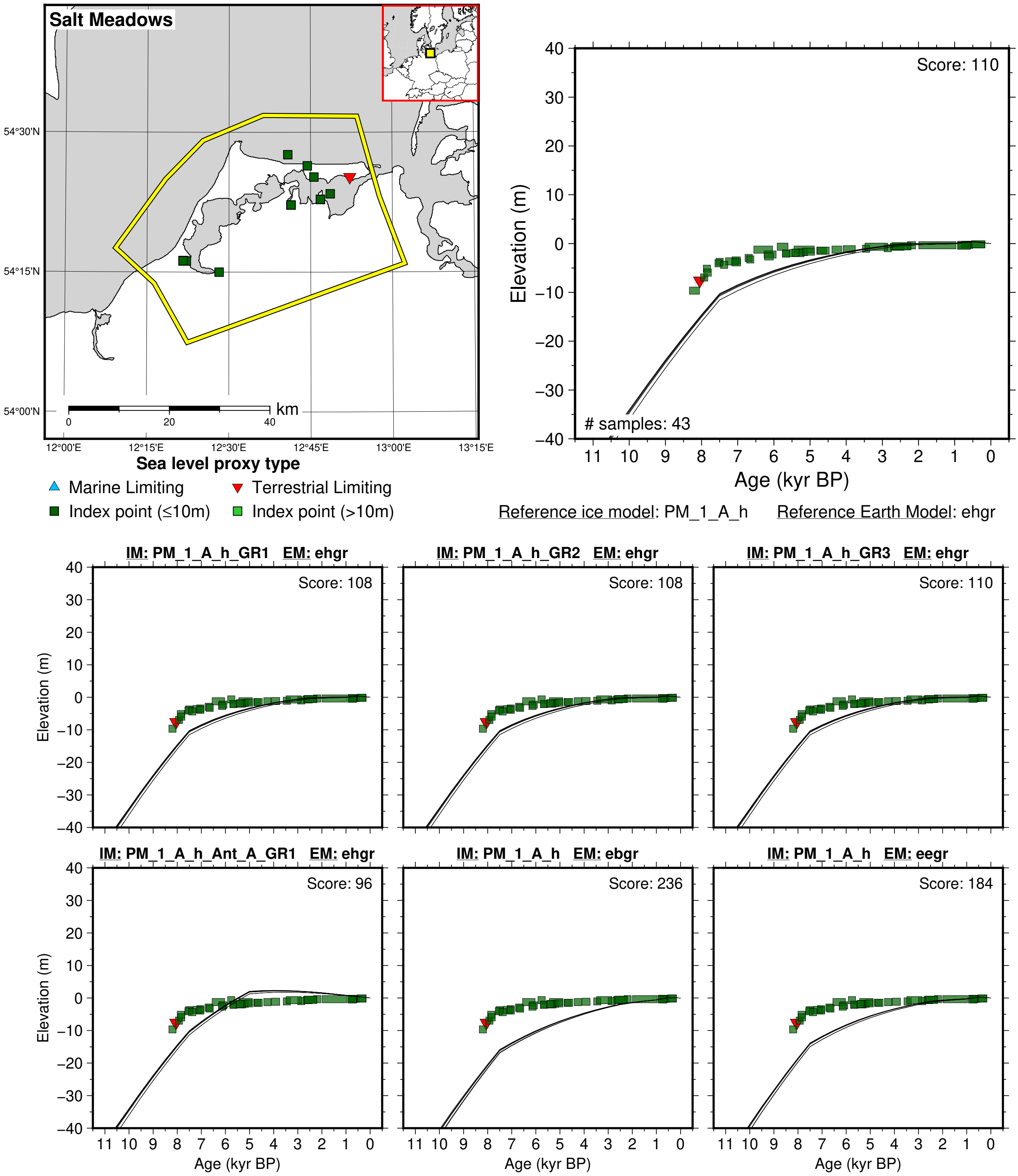

Figure 160: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Salt Meadows. References: Lampe and Janke (2004); Lampe et al. (2010); Naumann and Lampe (2011); Rosentau et al. (2021).

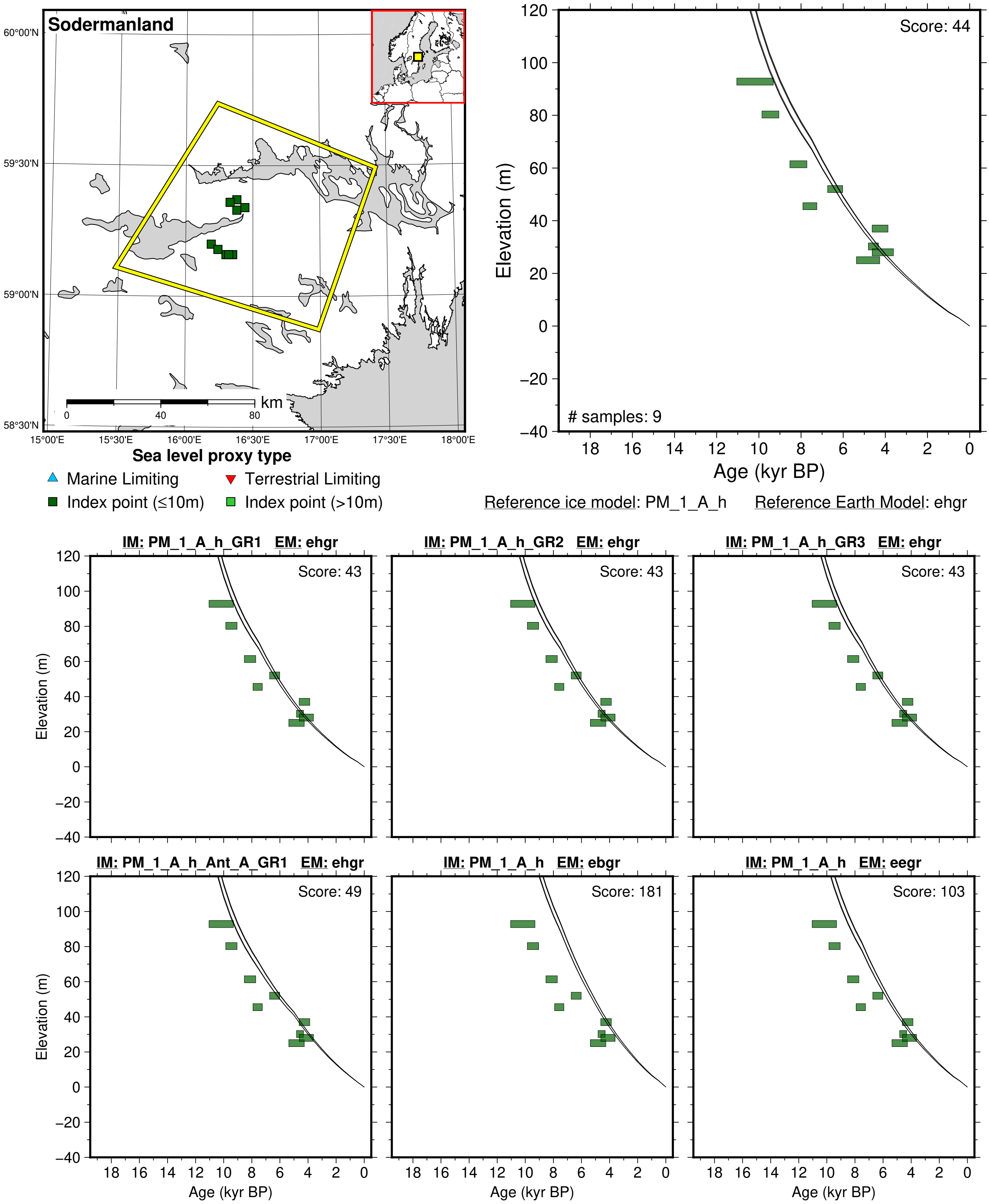

Figure 161: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Sodermanland. References: Robertsson (1991); Rosentau et al. (2021).

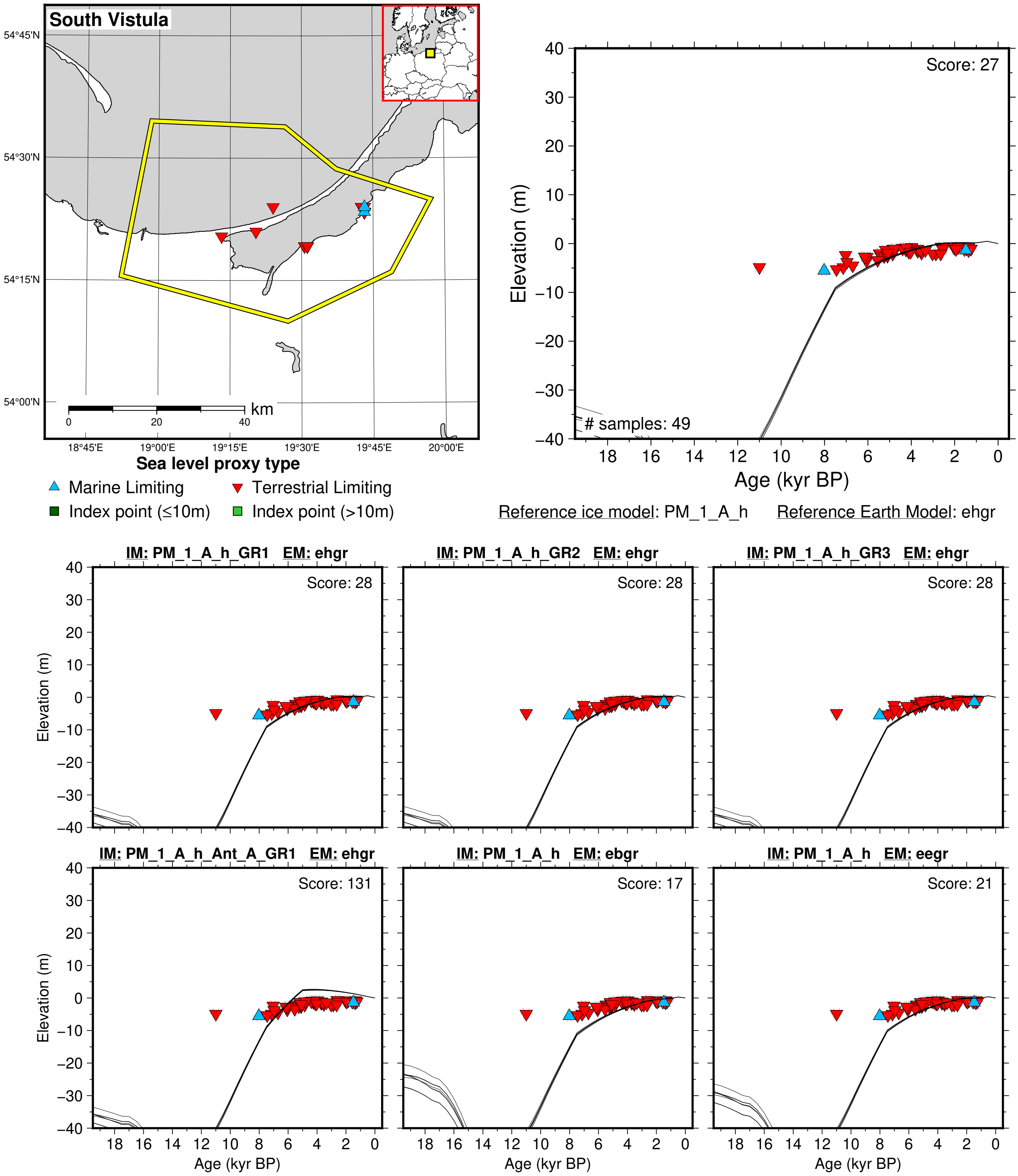

Figure 162: Paleo-sea level and comparison of six models for subregion: South Baltic, location: South Vistula. References: Miotk-Szpiganowicz (2016); Miotk-Szpiganowicz and Uścinowicz (2013); Rosentau et al. (2021).

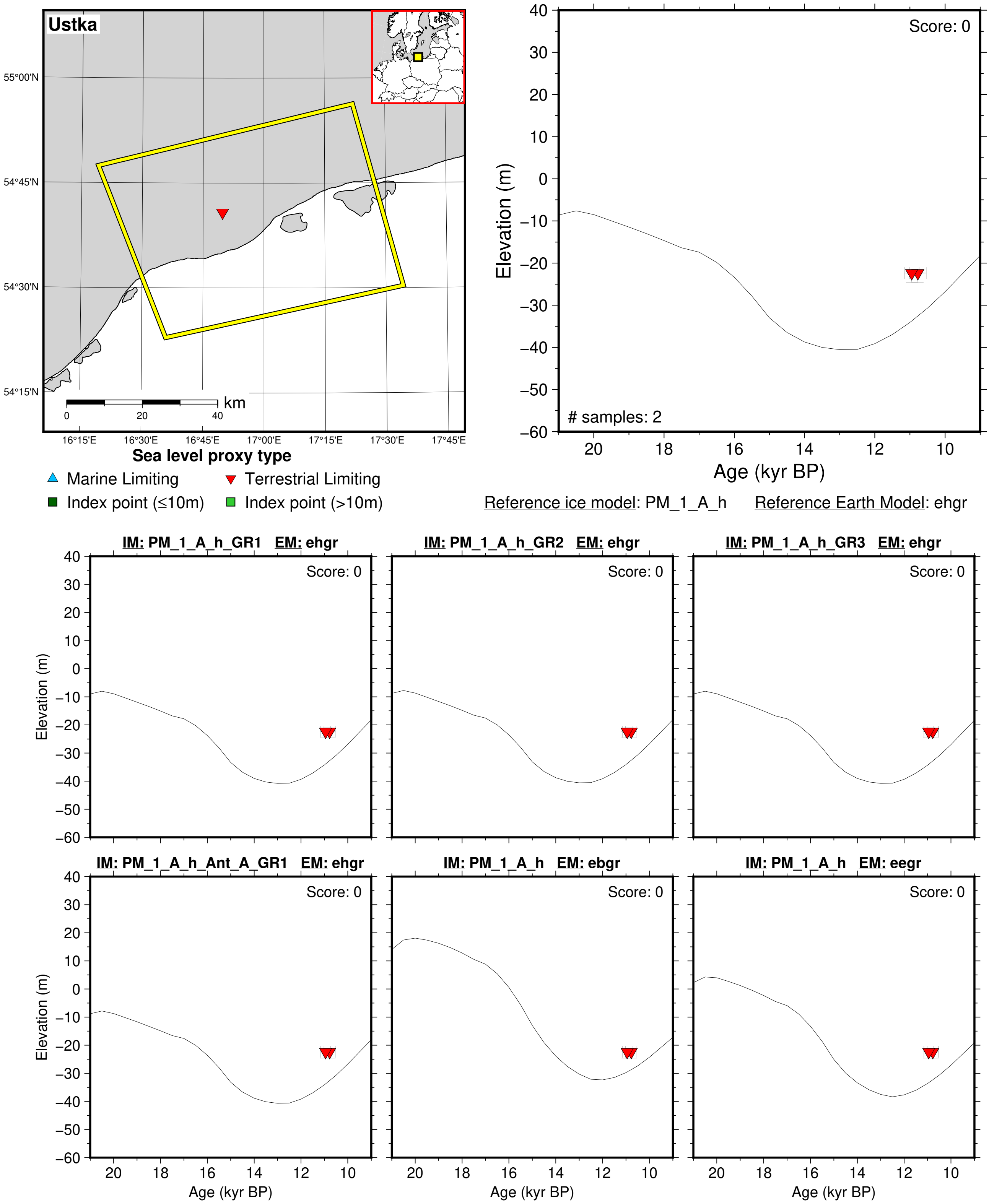

Figure 163: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Ustka. References: Miotk-Szpiganowicz et al. (2009); Rosentau et al. (2021).

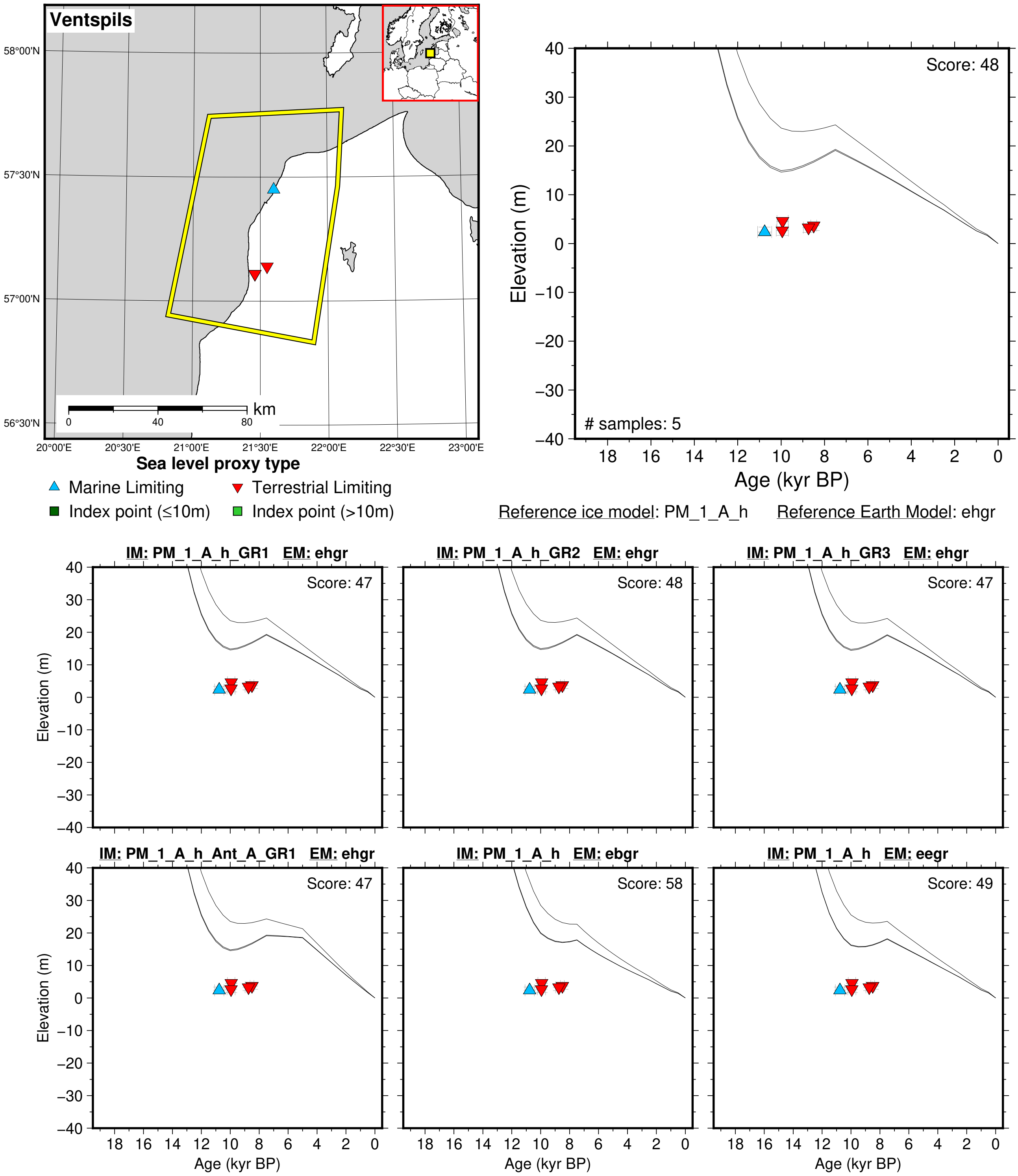

Figure 164: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Ventspils. References: Bērziņš et al. (2016); Murniece et al. (1999); Rosentau et al. (2021); Veinbergs (1996).

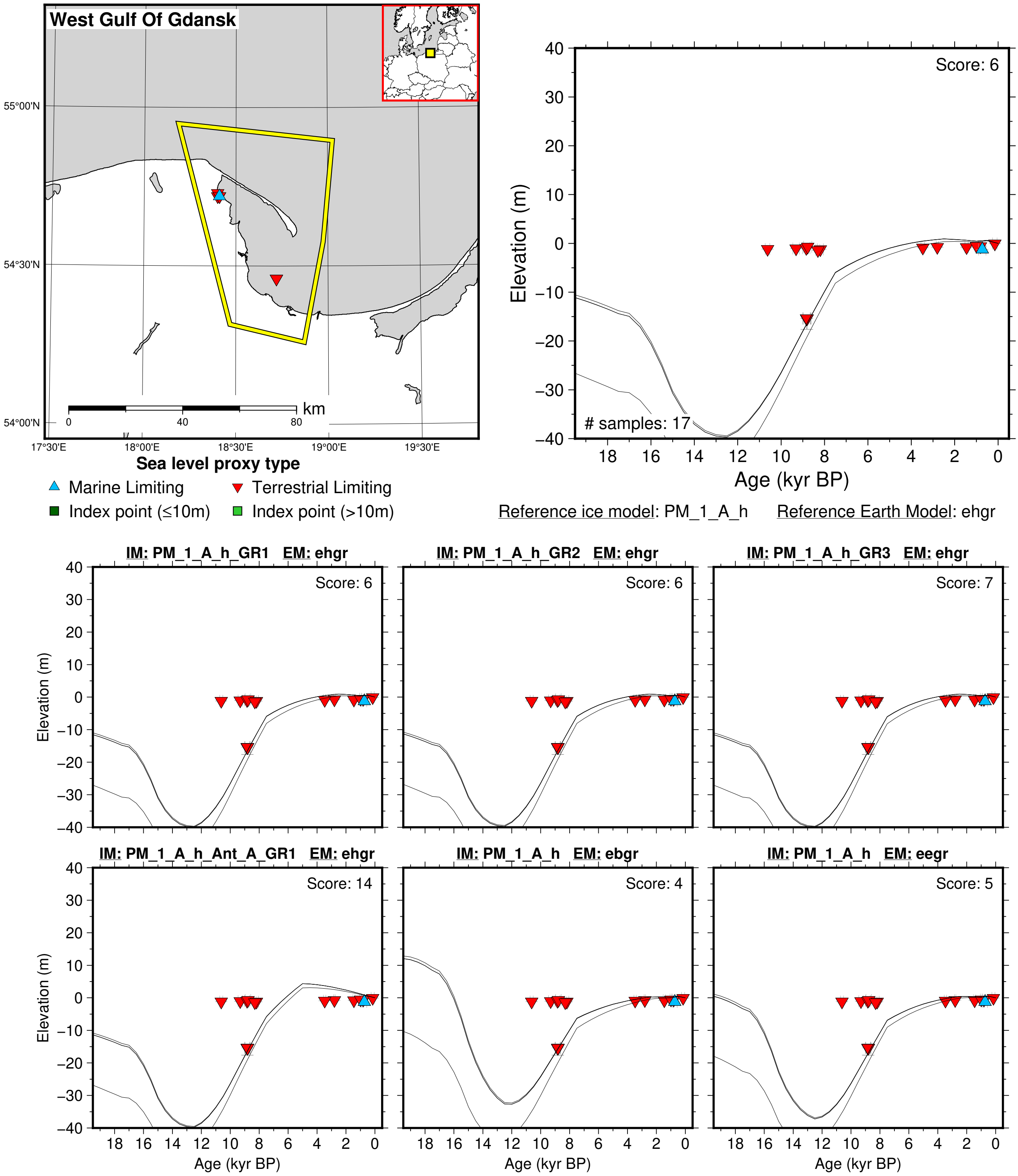

Figure 165: Paleo-sea level and comparison of six models for subregion: South Baltic, location: West Gulf Of Gdansk. References: Rosentau et al. (2021); Uścinowicz et al. (2011, 2013).

6.7 Greenland

6.7.1 Northeast Greenland

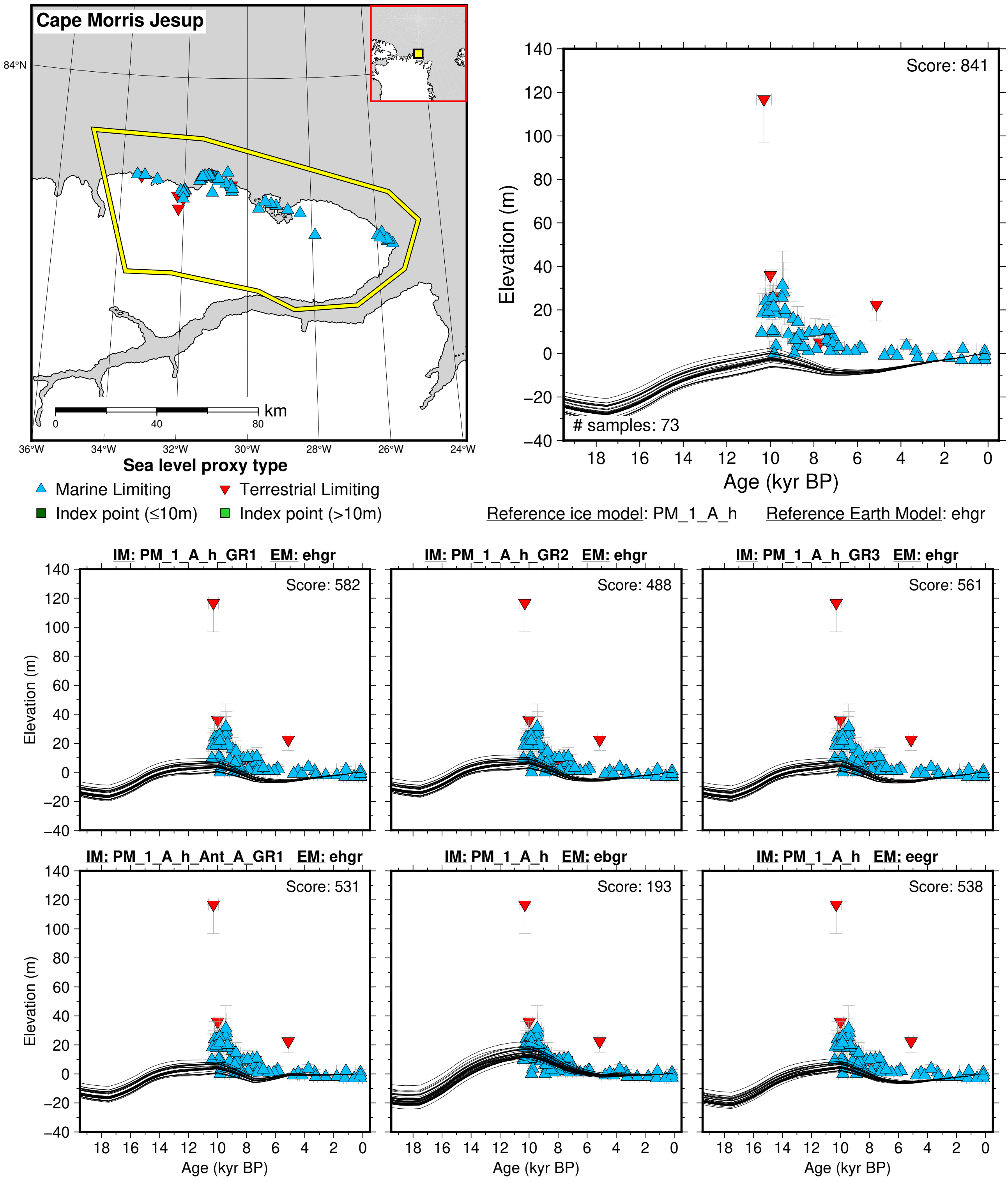

Figure 166: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Cape Morris Jesup. References: Funder (1982); Funder et al. (2011); Ives et al. (1964); Möller et al. (2010).

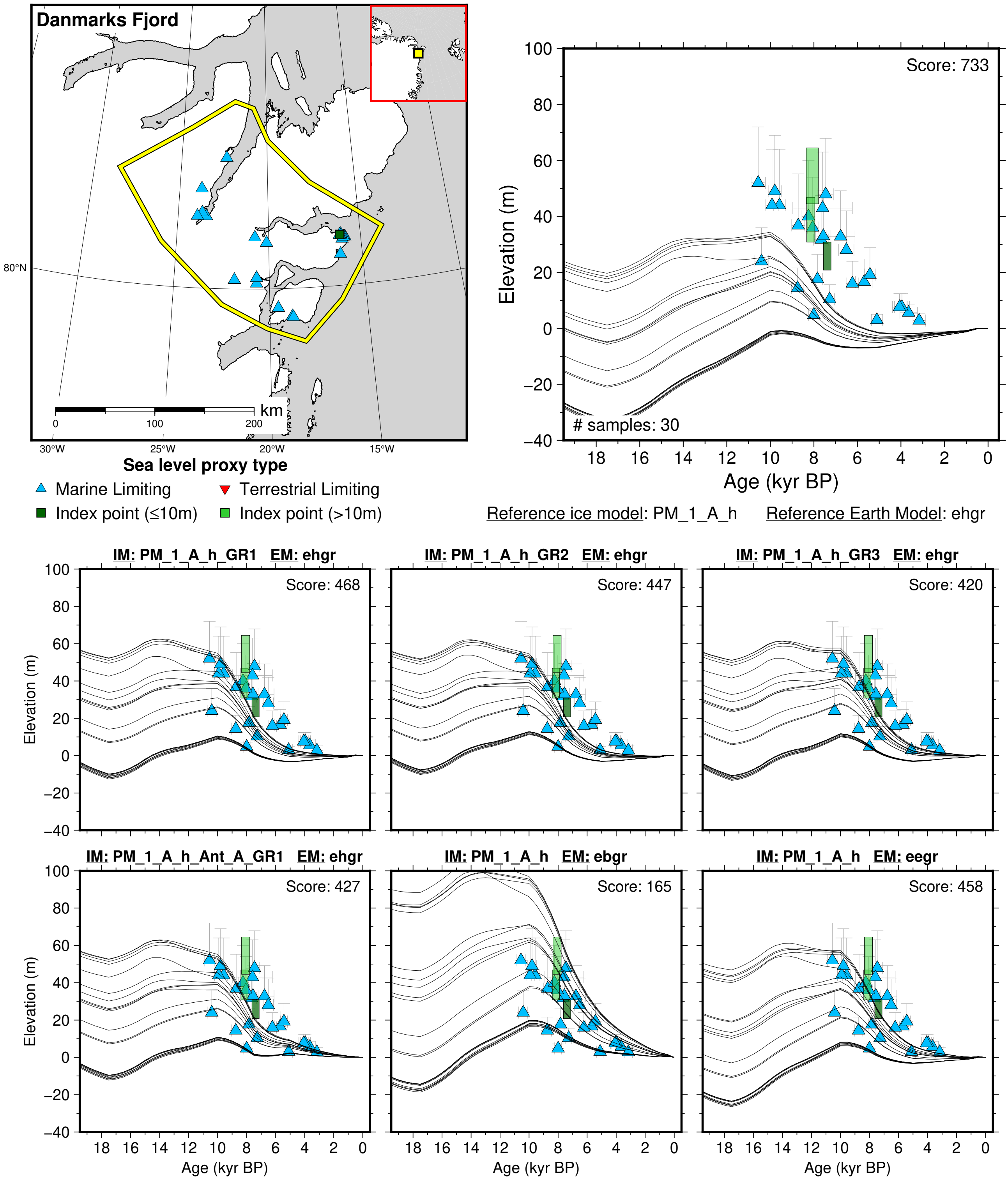

Figure 167: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Danmarks Fjord. References: Bennike and Weidick (2001); Funder (1982); Funder et al. (2011); Hjort (1997); Håkansson (1982); Ives et al. (1964); Tauber (1960, 1961, 1964); Trautman (1963).

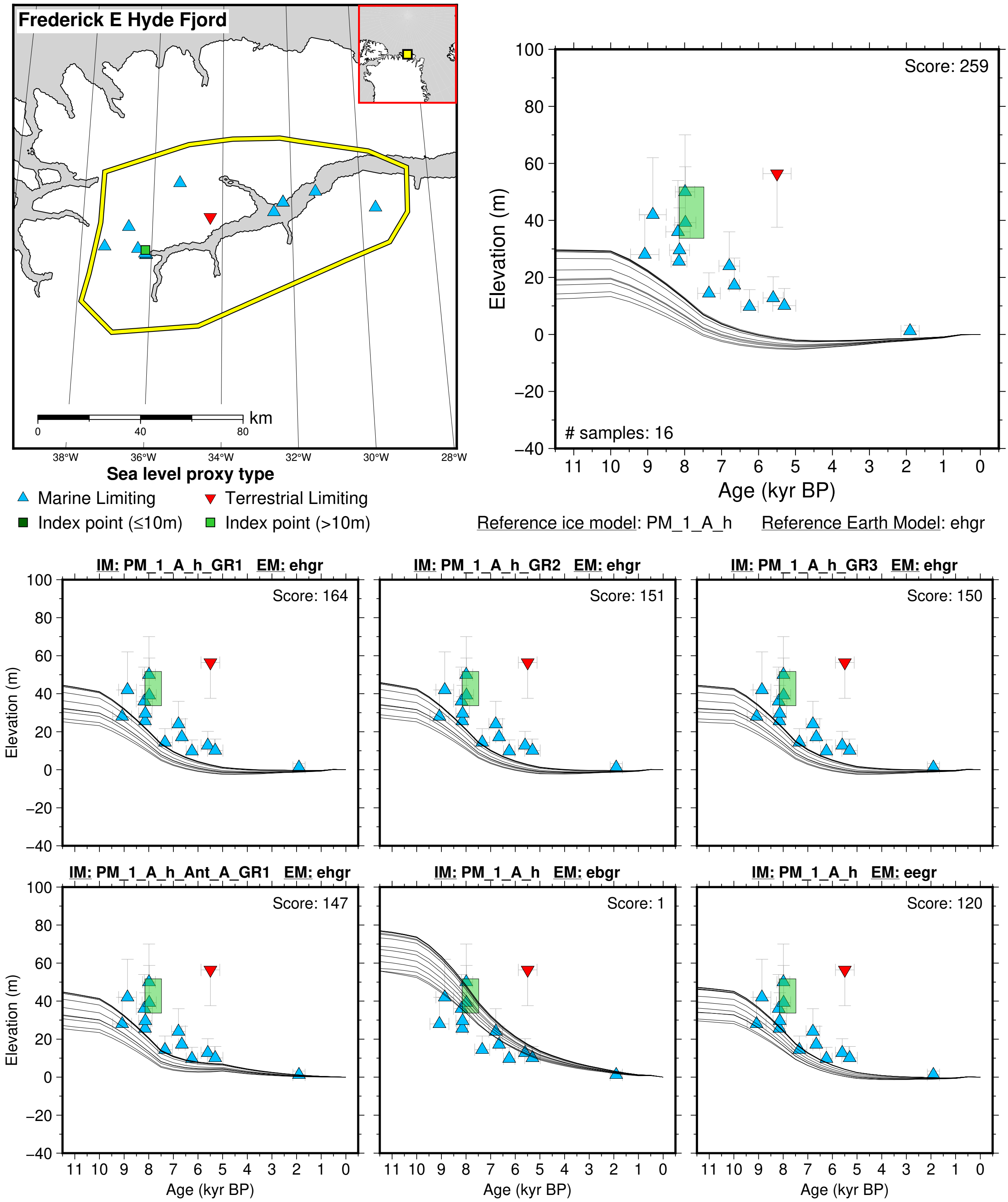

Figure 168: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Frederick E Hyde Fjord. References: Funder (1982); Landvik et al. (2001); Weidick (1972b, 1973, 1977).

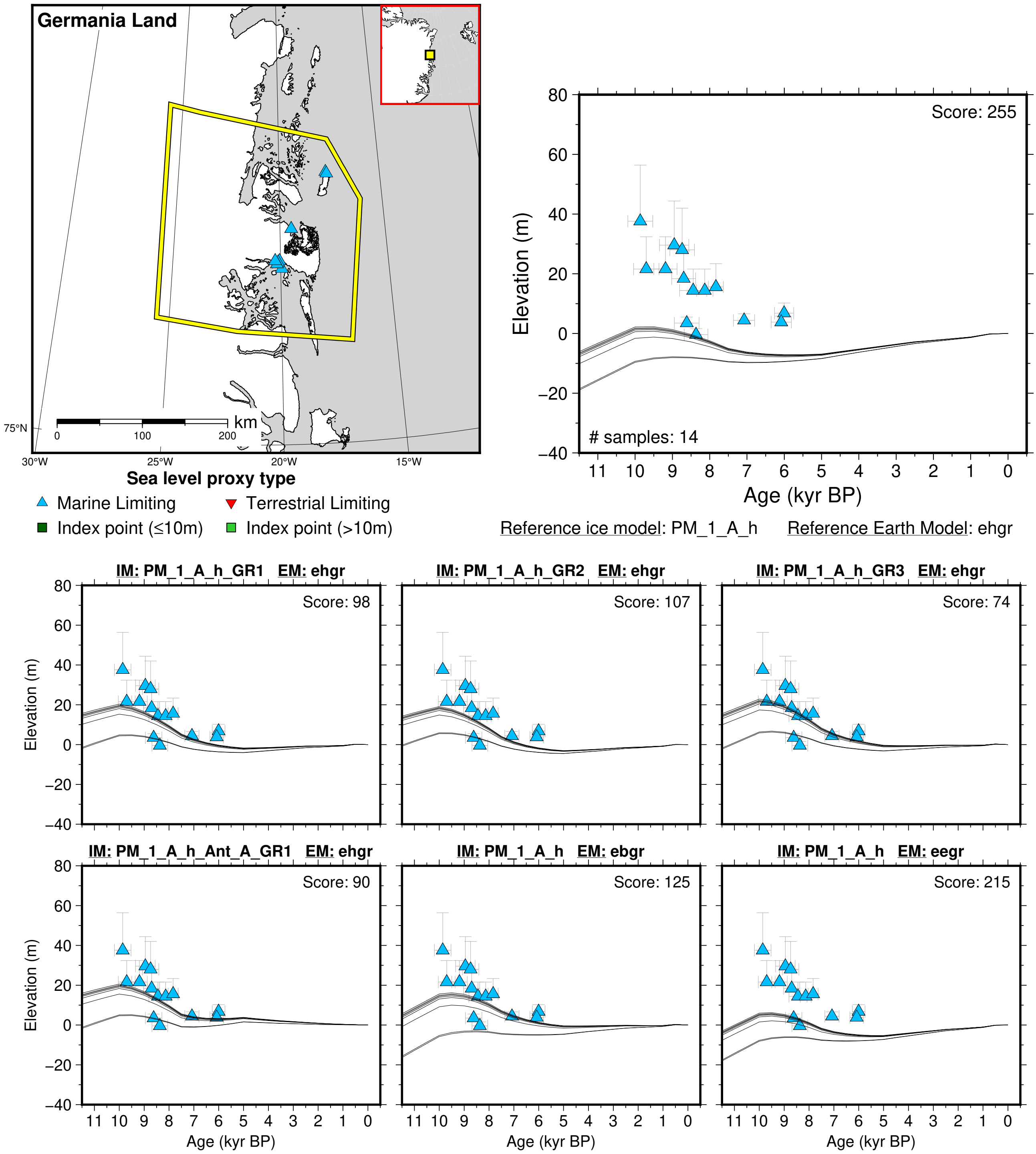

Figure 169: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Germania Land. References: Landvik (1994).

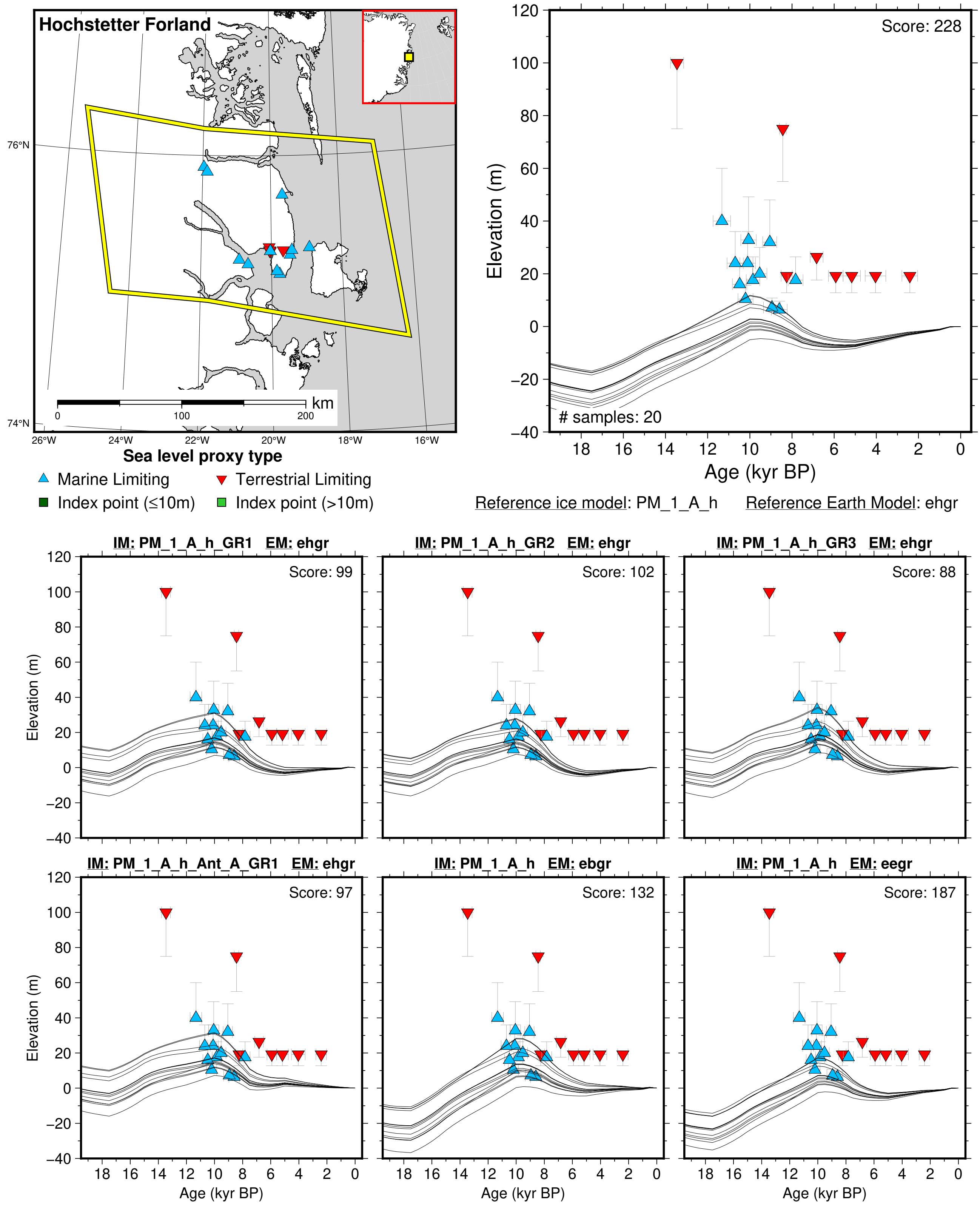

Figure 170: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Hochstetter Forland. References: Björck et al. (1994b); Hjort (1979, 1981); Håkansson (1978, 1981); Weidick (1977).

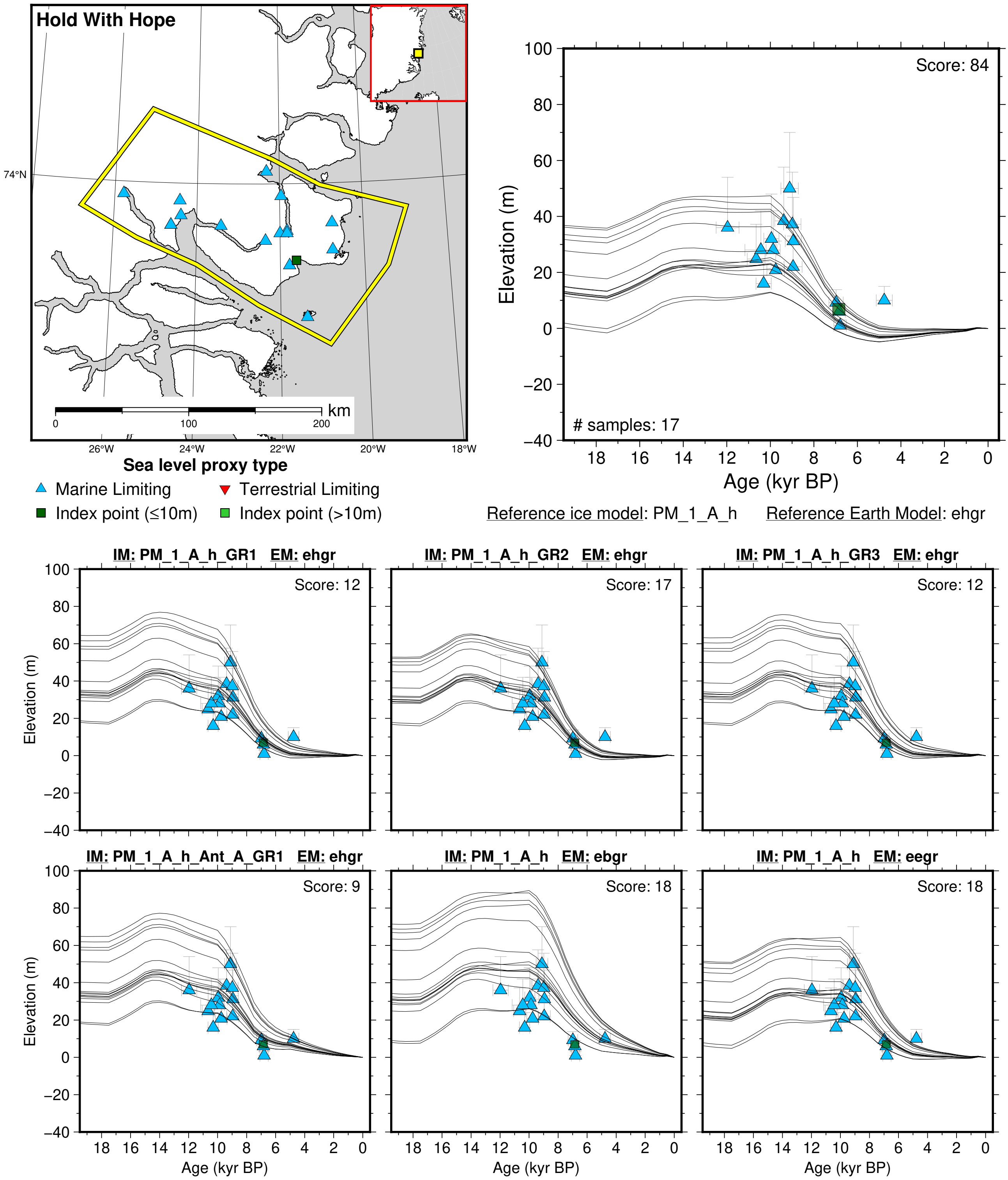

Figure 171: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Hold With Hope. References: Hjort (1979); Hjort and Funder (1974); Håkansson (1975); Weidick (1976, 1977).

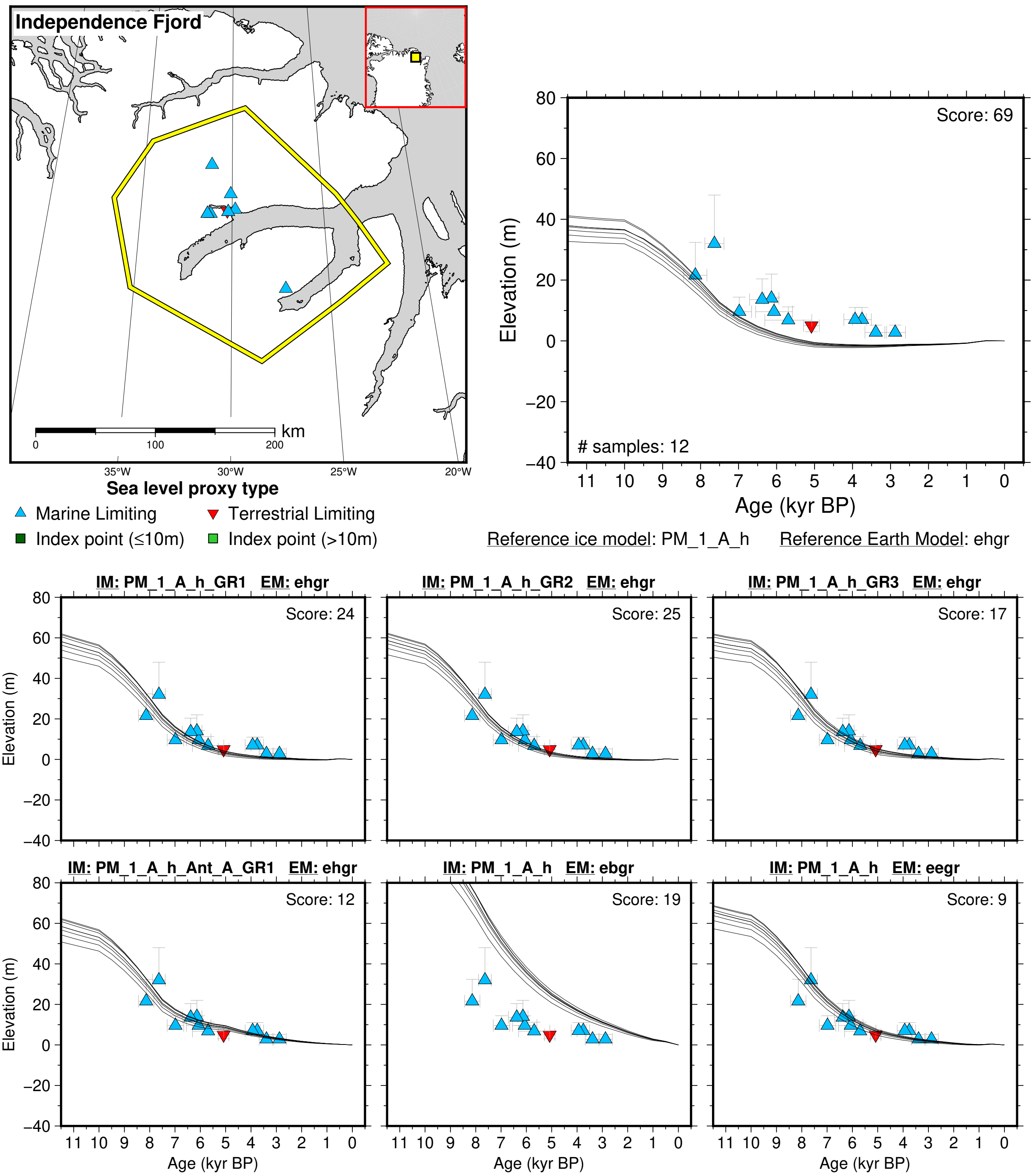

Figure 172: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Independence Fjord. References: Bennike (2002); Funder (1982); Funder and Abrahamsen (1988); Funder et al. (2011); Ives et al. (1964); Rubin and Alexander (1960); Tauber (1966); Weidick (1977).

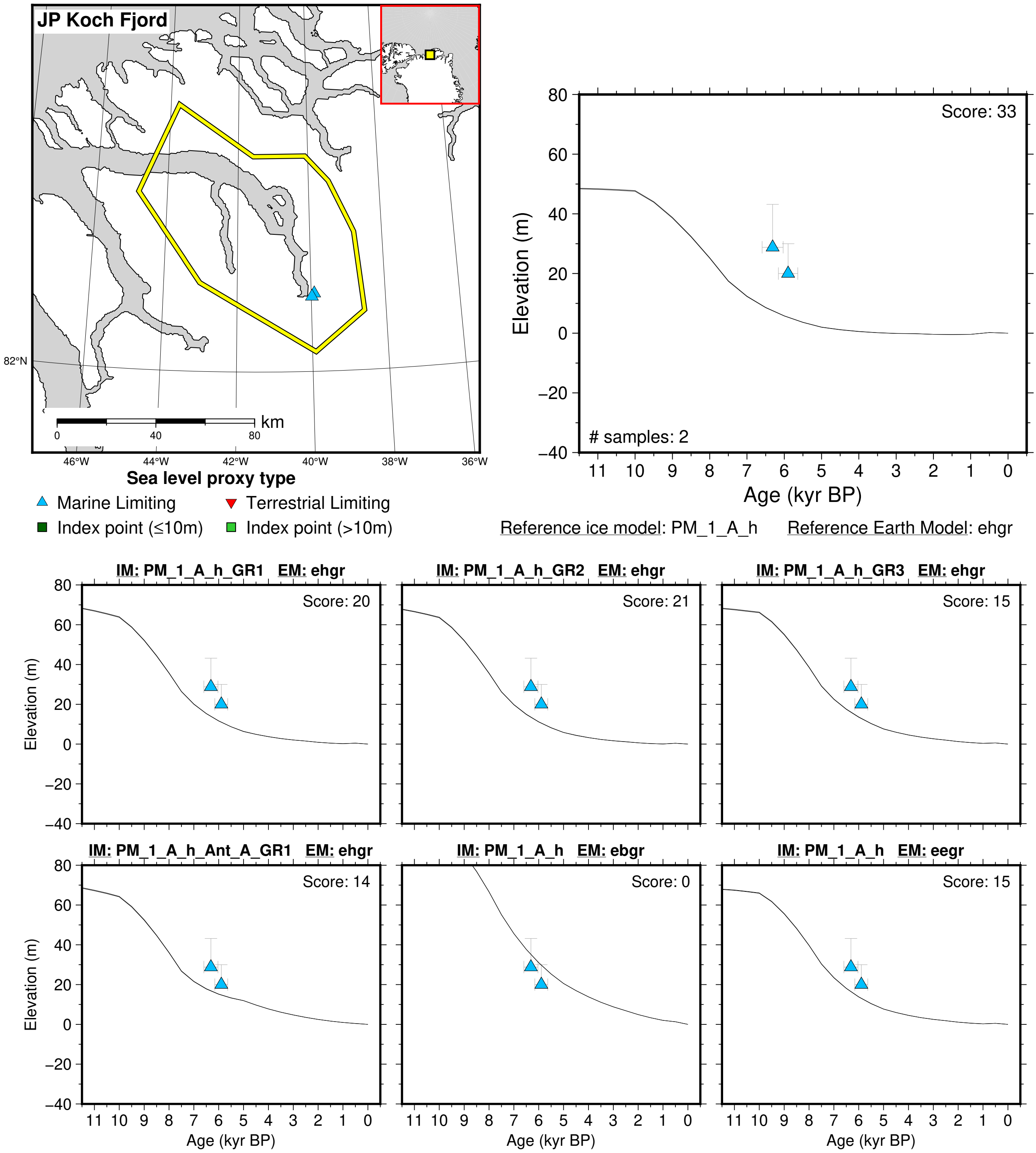

Figure 173: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: JP Koch Fjord. References: Landvik et al. (2001).

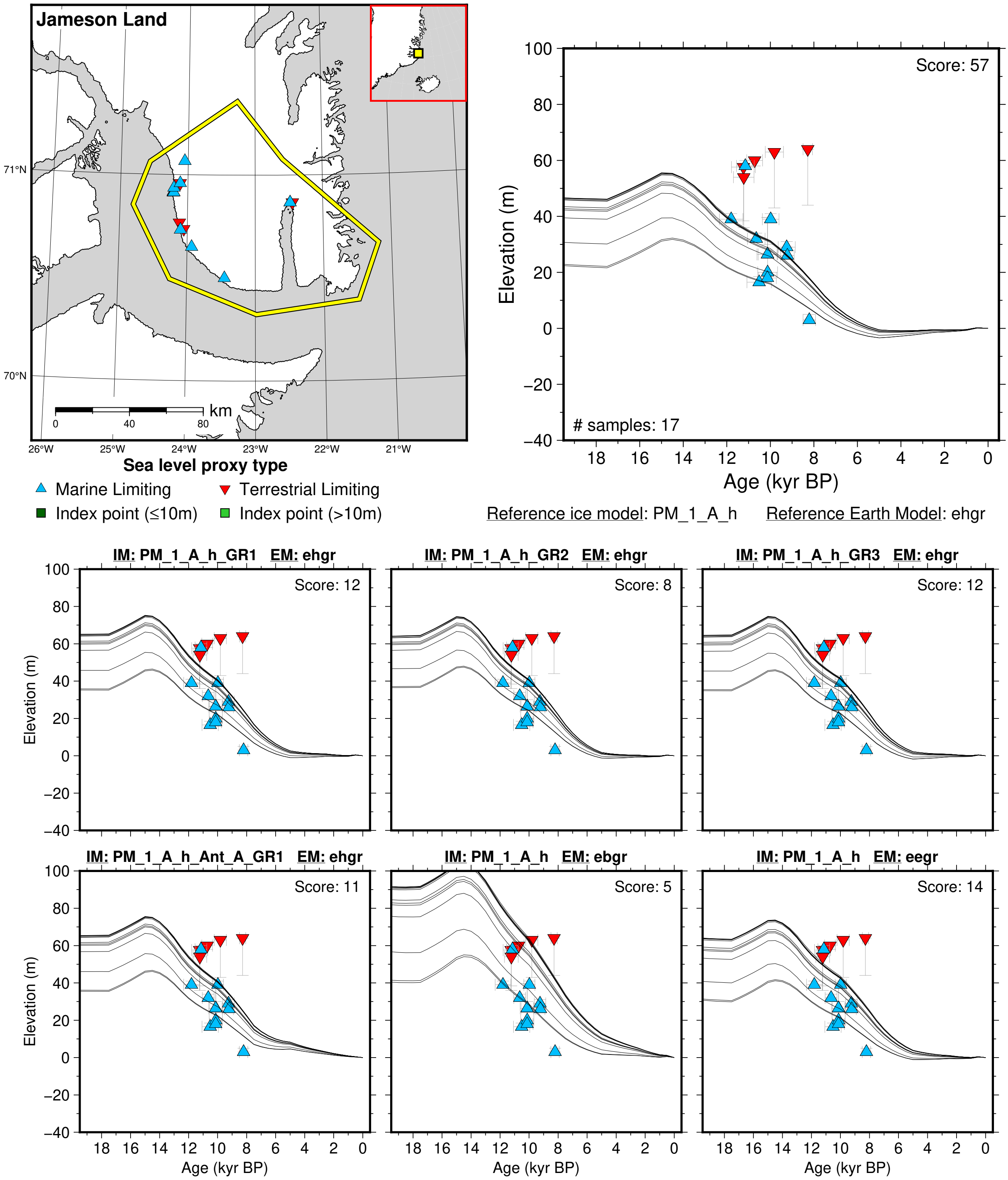

Figure 174: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Jameson Land. References: Björck et al. (1994a); Funder (1971, 1972, 1973, 1978, 1990a); Funder and Hansen (1996); Hjort (1979); Ingólfsson et al. (1994); Weidick (1972b, 1973, 1974).

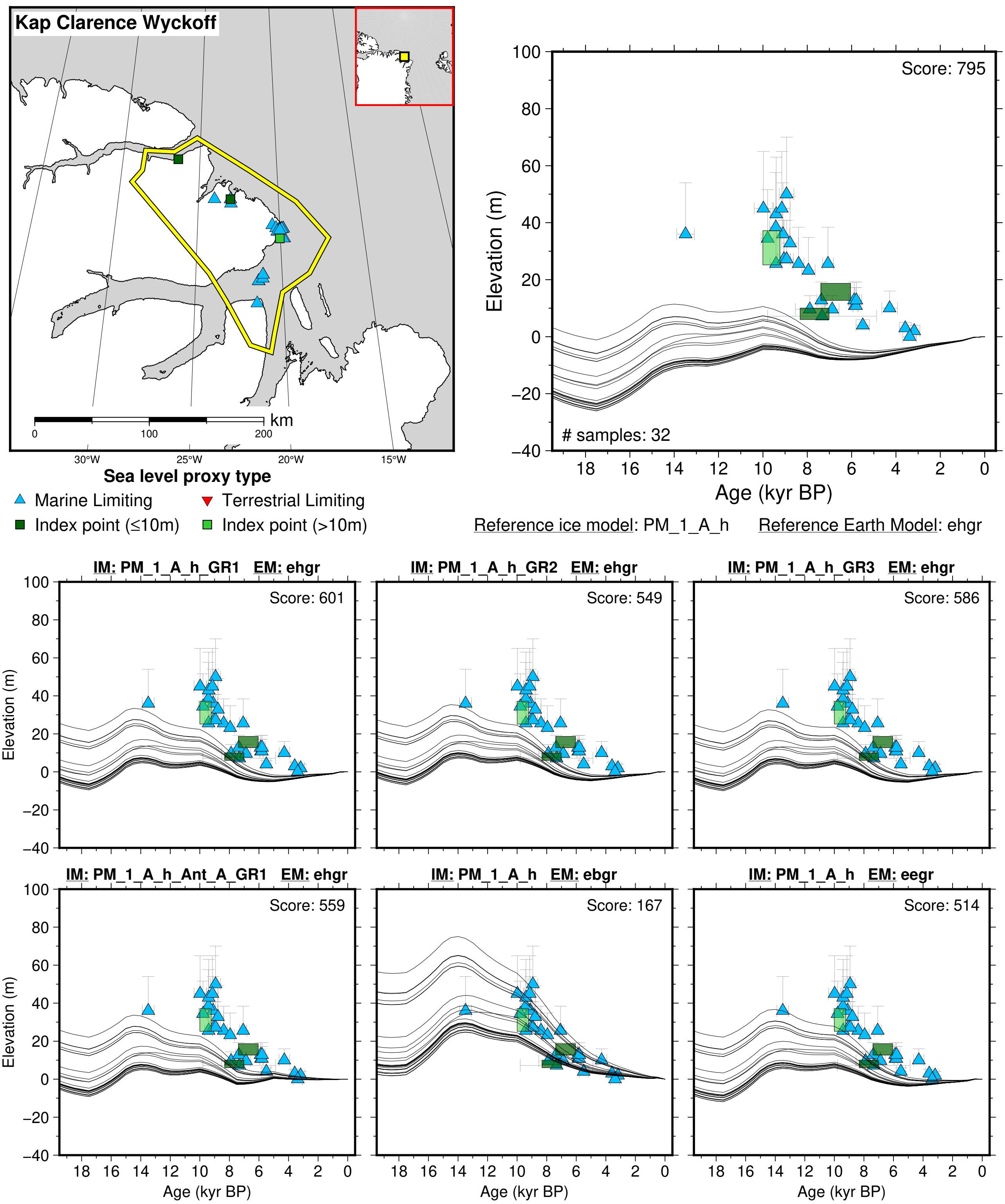

Figure 175: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Kap Clarence Wyckoff. References: Funder (1982); Funder and Abrahamsen (1988); Funder et al. (2011); Ives et al. (1964); Tauber (1964).

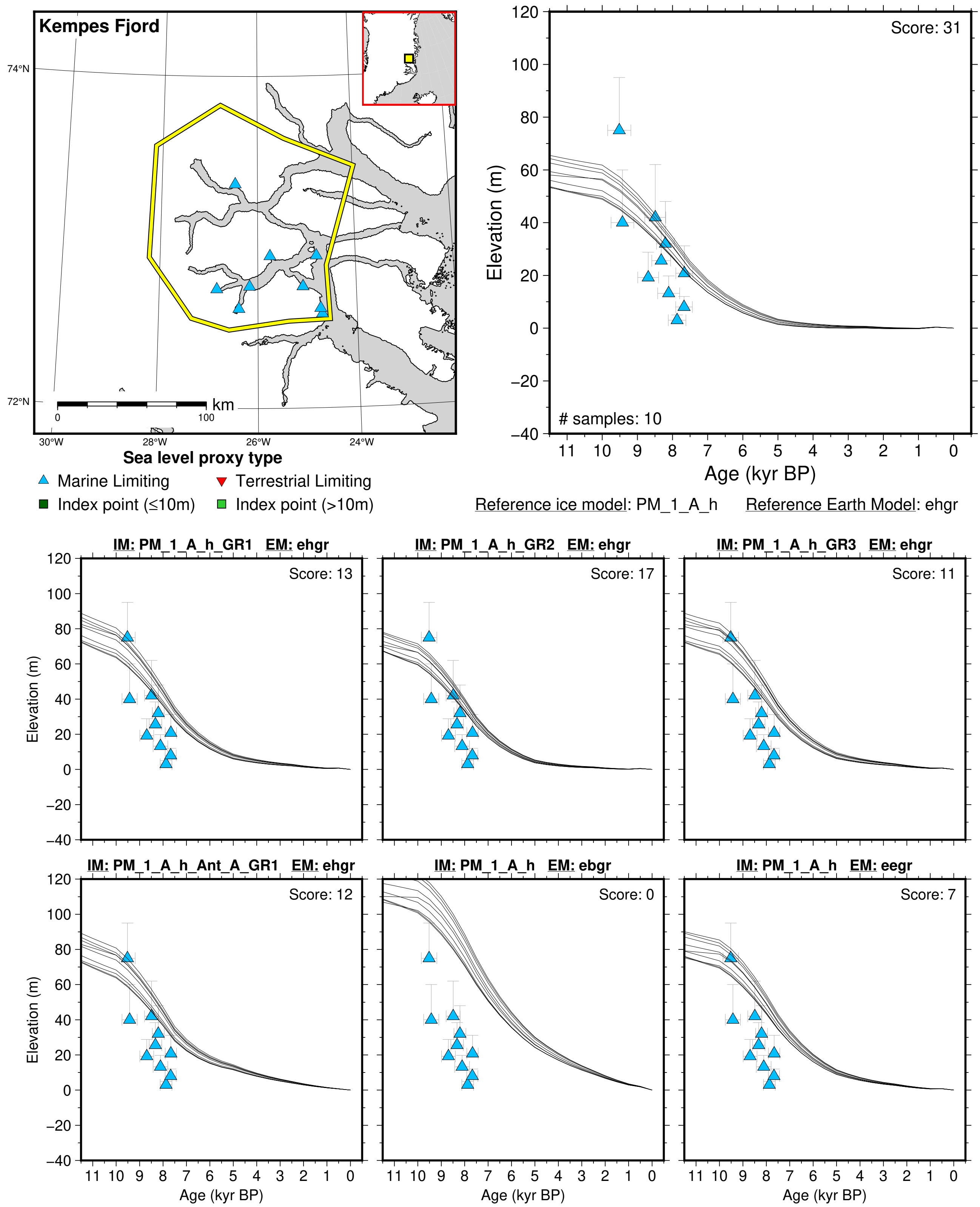

Figure 176: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Kempes Fjord. References: Hjort (1979); Hjort and Funder (1974); Håkansson (1973, 1974, 1976); Weidick (1977).

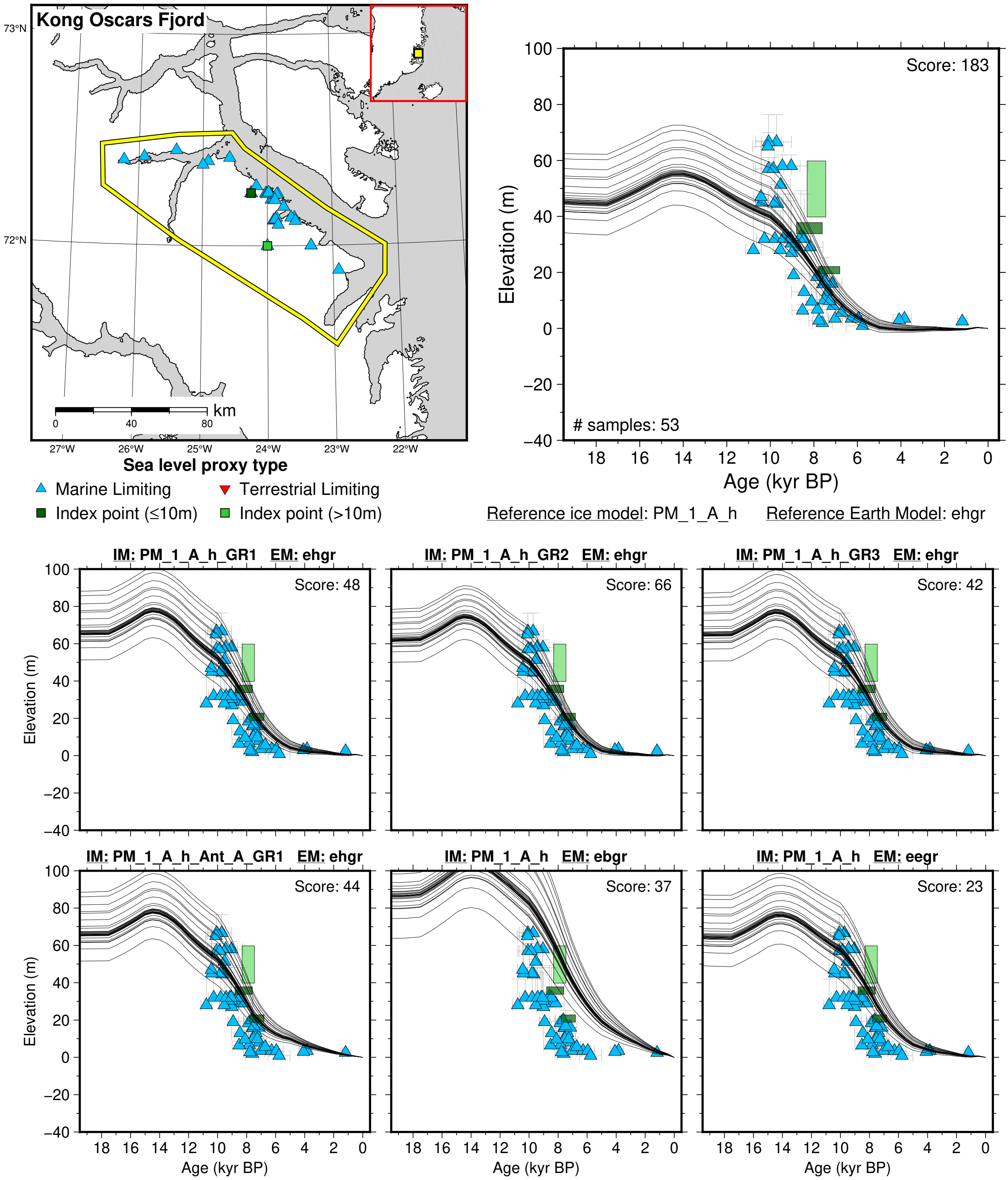

Figure 177: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Kong Oscars Fjord. References: Hjort (1979); Hjort and Funder (1974); Håkansson (1972, 1973, 1974, 1975, 1976); Lasca (1966); Trautman (1963); Washburn and Stuiver (1962).

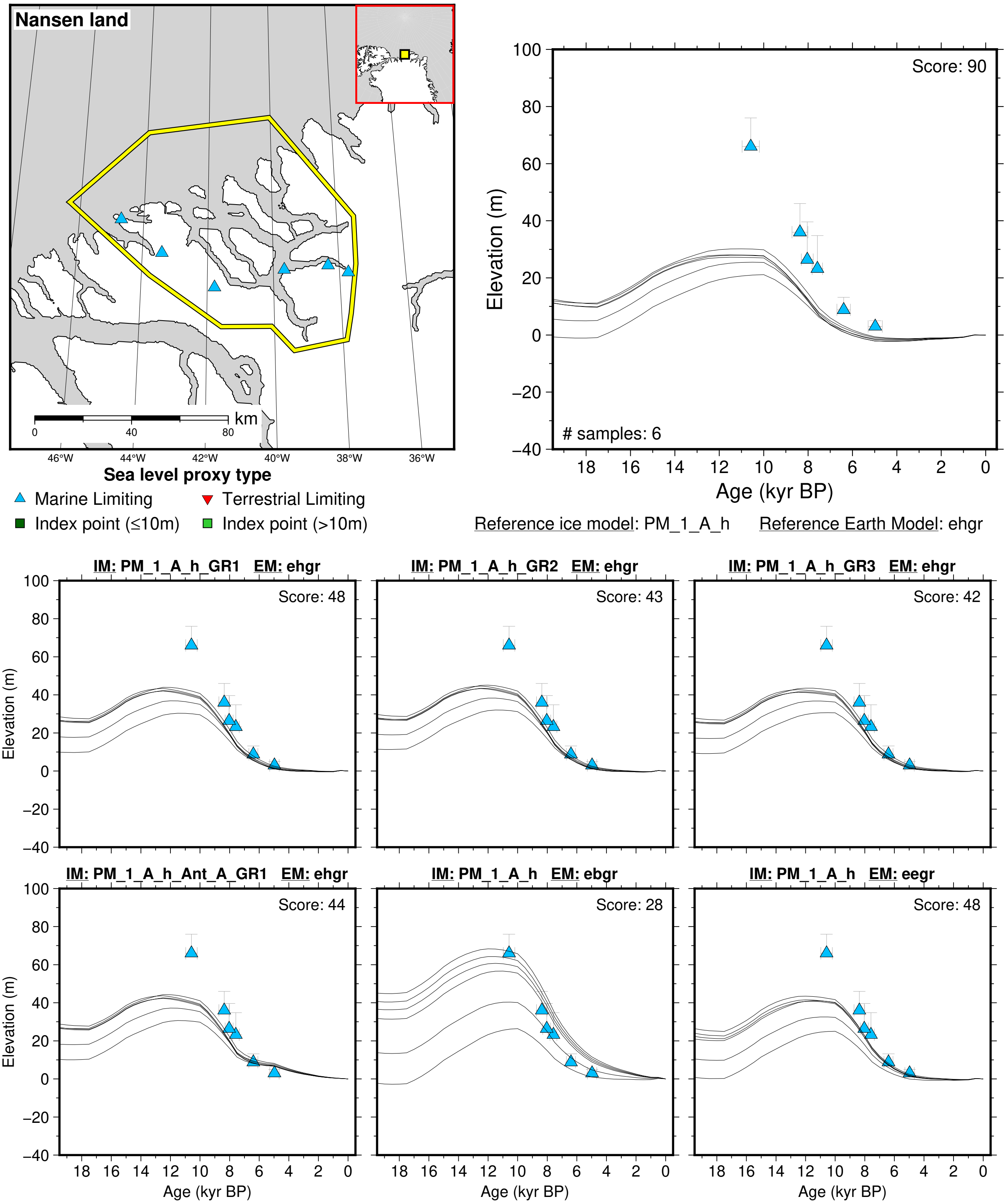

Figure 178: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Nansen land. References: Bennike and Kelly (1987); Kelly and Bennike (1985, 1992); Landvik et al. (2001); Weidick (1973).

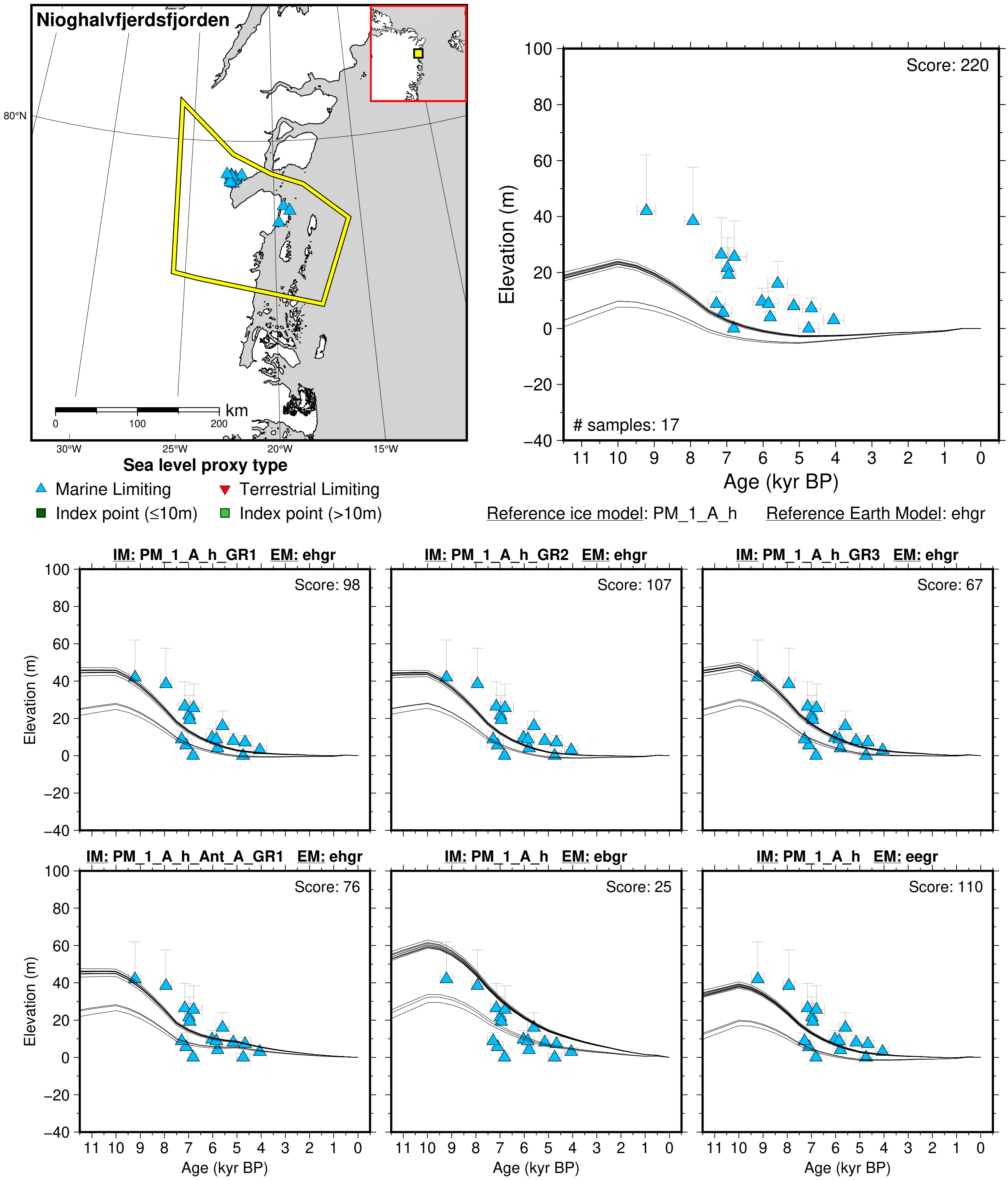

Figure 179: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Nioghalvfjerdsfjorden. References: Bennike and Weidick (2001).

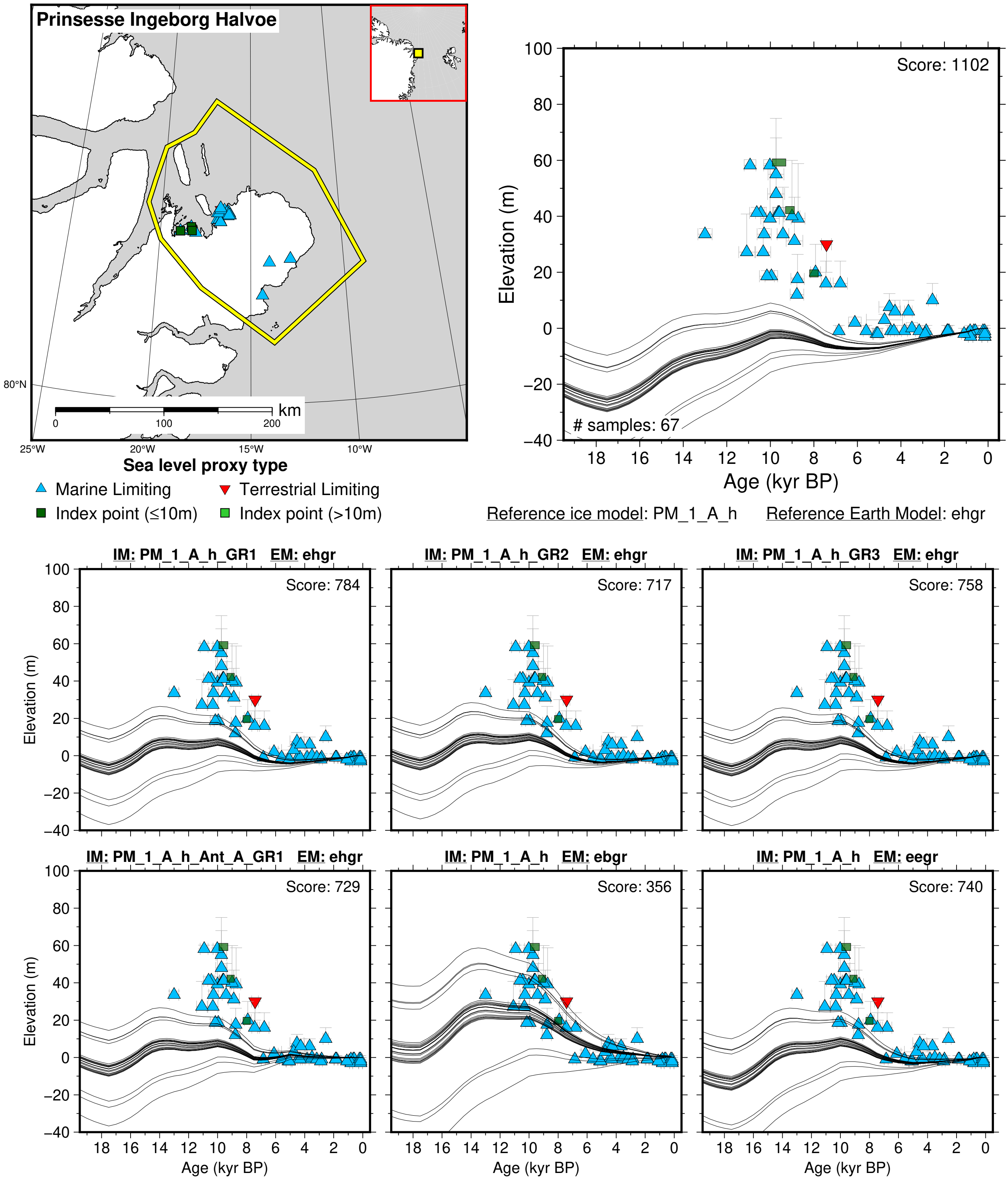

Figure 180: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Prinsesse Ingeborg Halvoe. References: Bennike (1997); Funder (1982); Funder and Abrahamsen (1988); Funder et al. (2011); Hjort (1997); Håkansson (1987); Ives et al. (1964); Strunk et al. (2018); Tauber (1961).

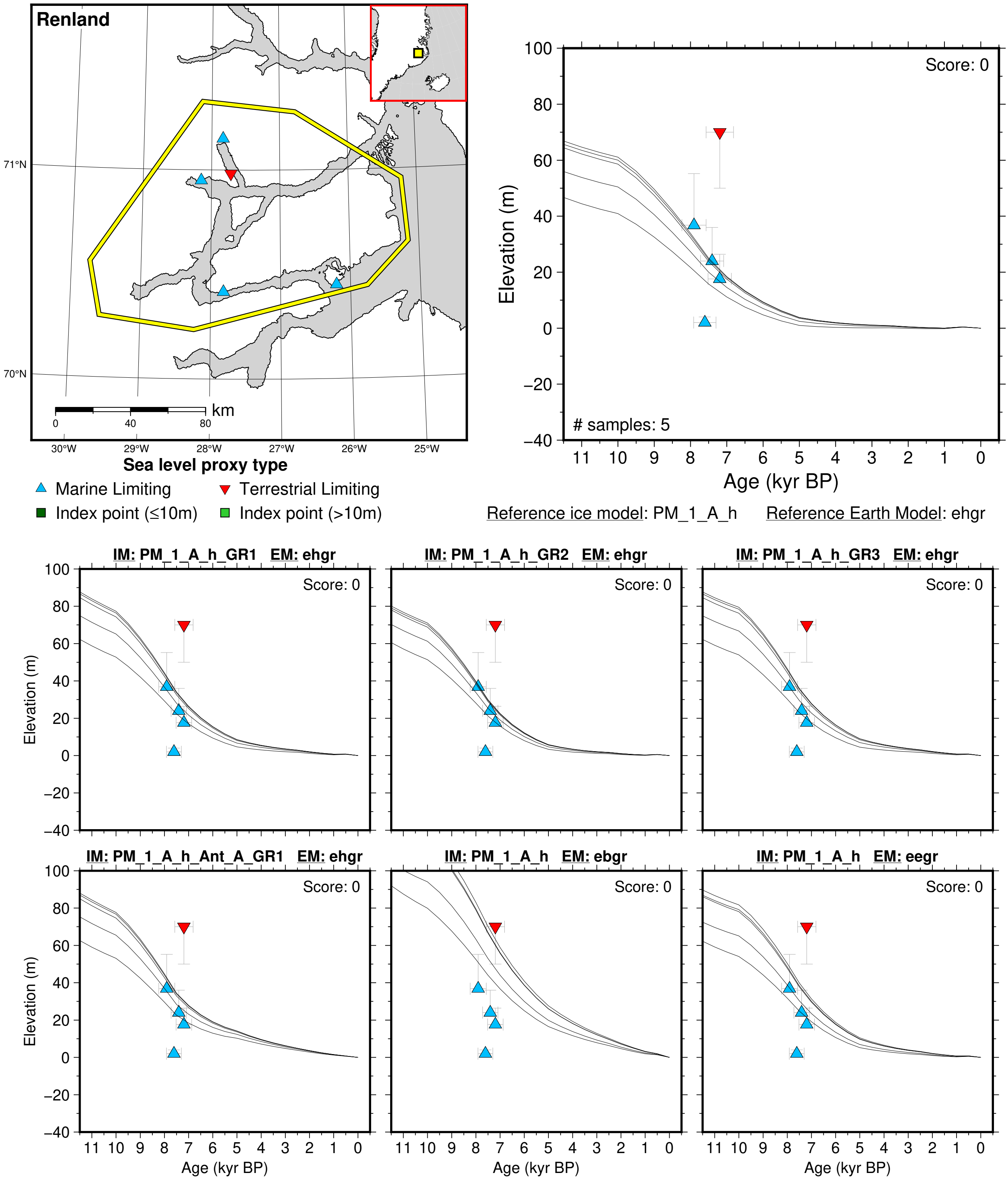

Figure 181: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Renland. References: Funder (1971); Hjort and Funder (1974).

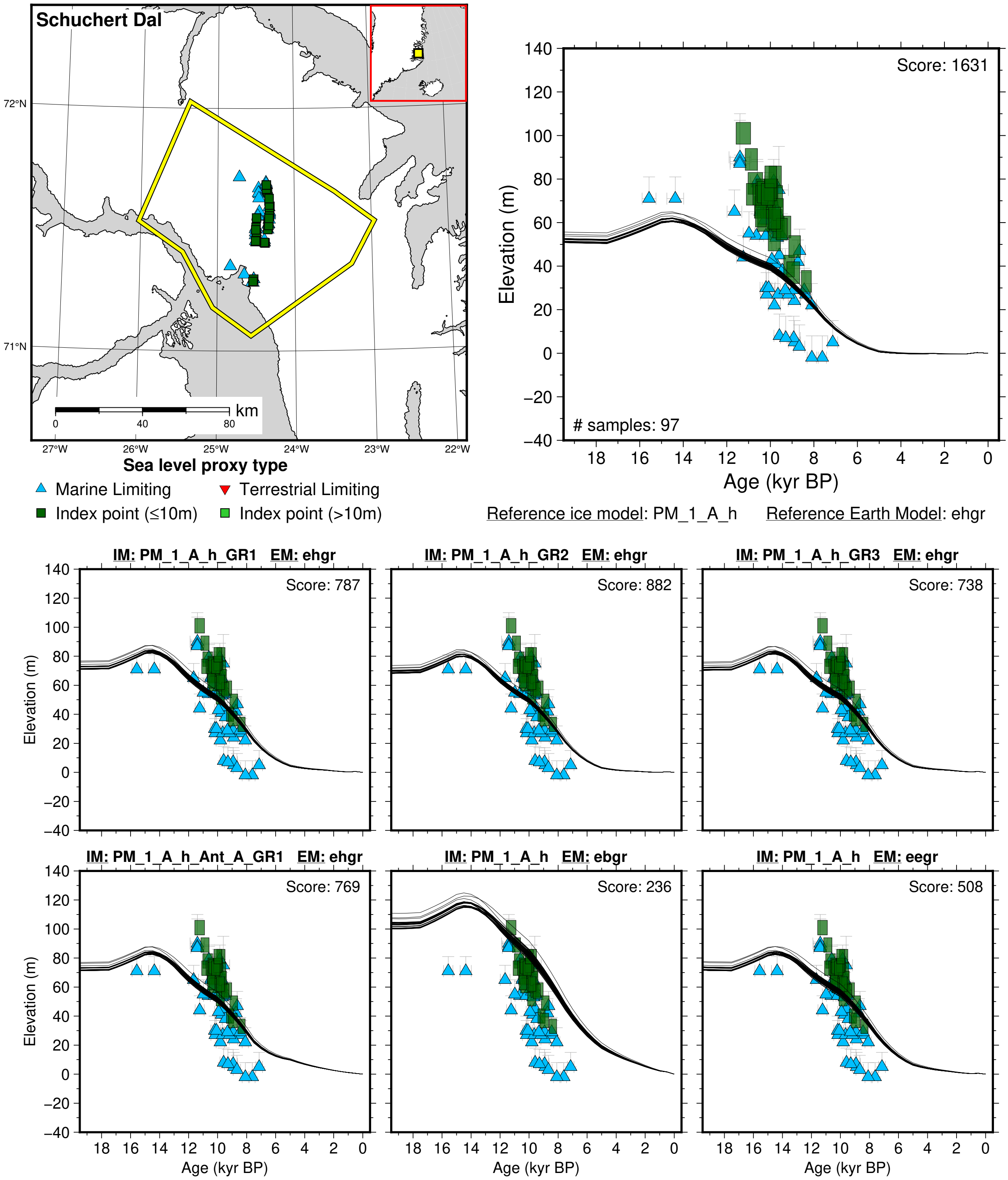

Figure 182: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Schuchert Dal. References: Funder (1972, 1978); Funder and Hansen (1996); Hall et al. (2008, 2010); Hjort (1979); Street (1977); Weidick (1972b).

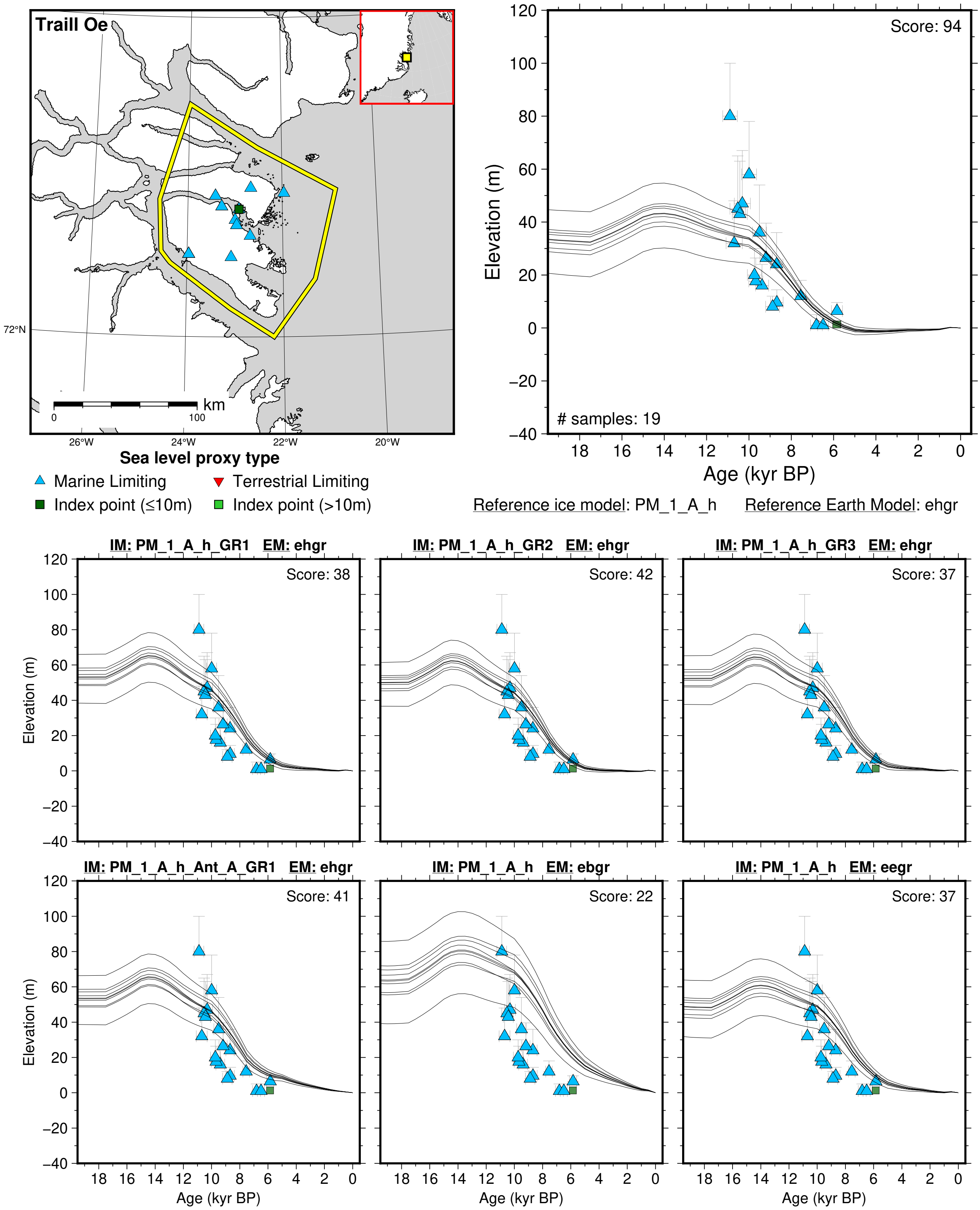

Figure 183: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Traill Oe. References: Hjort (1973, 1979); Hjort and Funder (1974); Håkansson (1972, 1973, 1974).

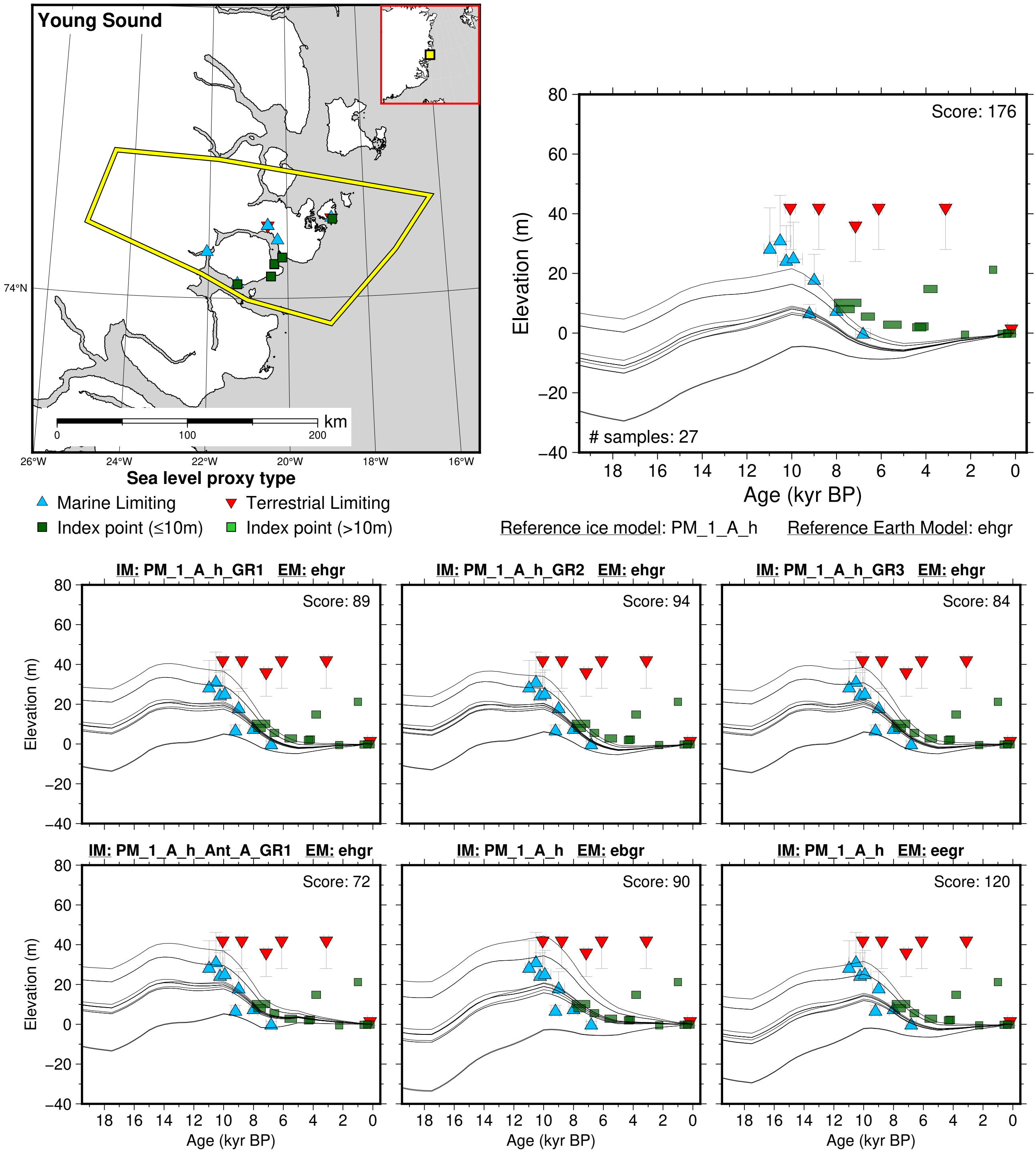

Figure 184: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Young Sound. References: Bennike and Wagner (2012); Christiansen et al. (2002); Hjort (1979); Pedersen et al. (2011); Weidick (1977).

6.7.2 Northwest Greenland

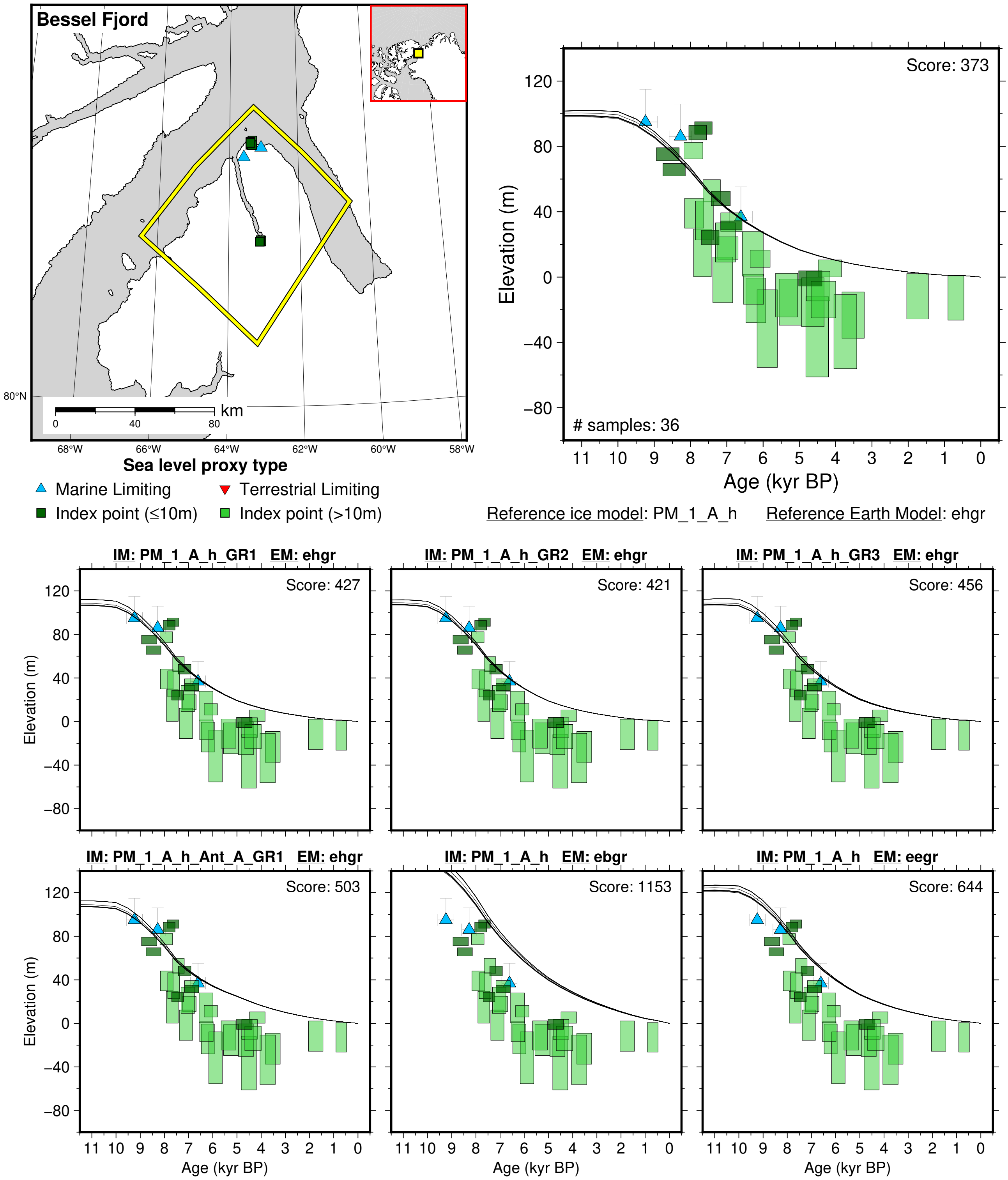

Figure 185: Paleo-sea level and comparison of six models for subregion: Northwest Greenland, location: Bessel Fjord. References: Bennike (2002); Blake (1987); Glueder et al. (2022); McNeely and Brennan (2005); Weidick (1977).

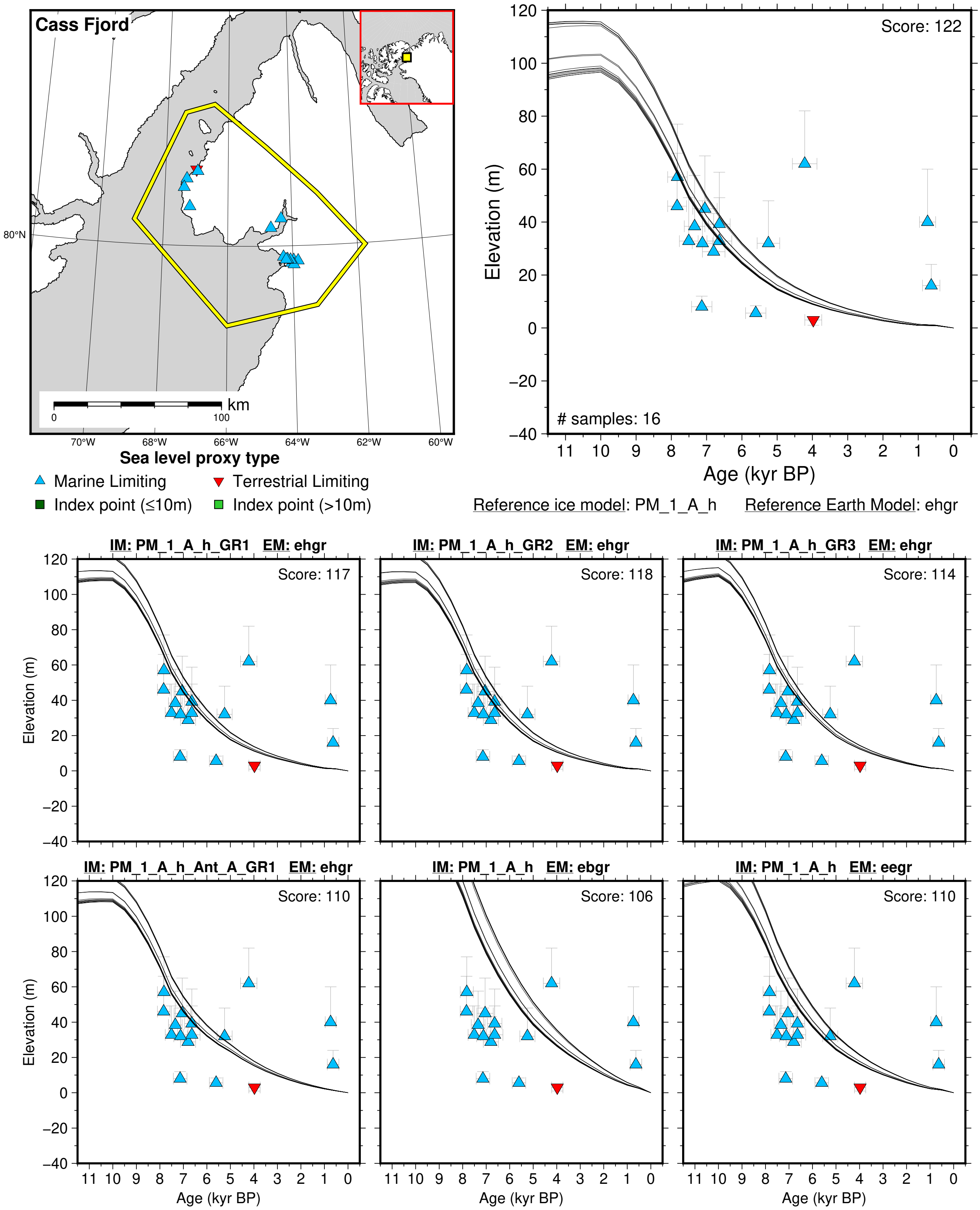

Figure 186: Paleo-sea level and comparison of six models for subregion: Northwest Greenland, location: Cass Fjord. References: Bennike (2002); Blake (1987); McNeely and Brennan (2005); Weidick (1977).

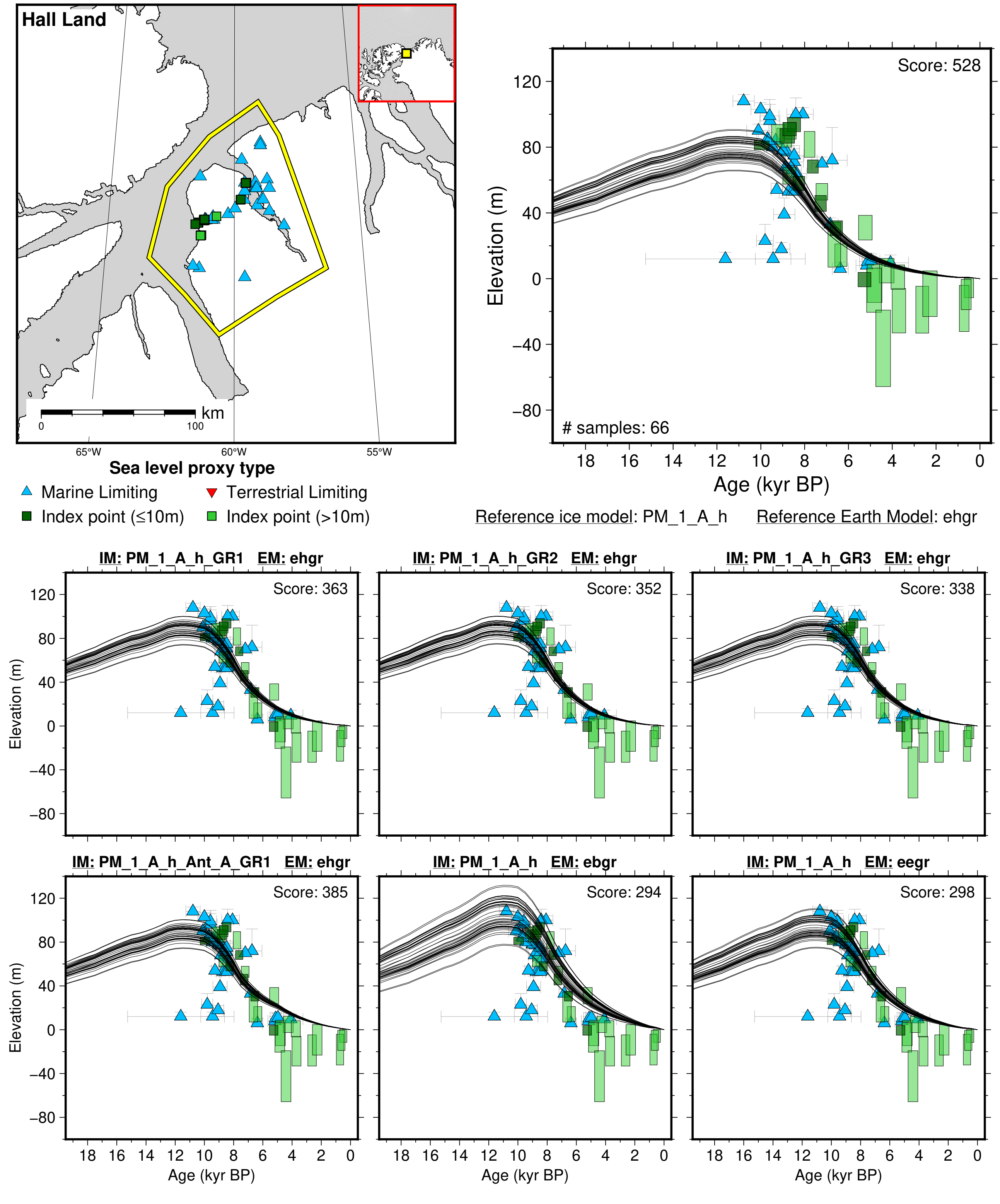

Figure 187: Paleo-sea level and comparison of six models for subregion: Northwest Greenland, location: Hall Land. References: Bennike and Kelly (1987); England (1985); Glueder et al. (2022); Kelly and Bennike (1985, 1992); McNeely and Brennan (2005); McNeely and McCuaig (1991); Rubin and Alexander (1960).

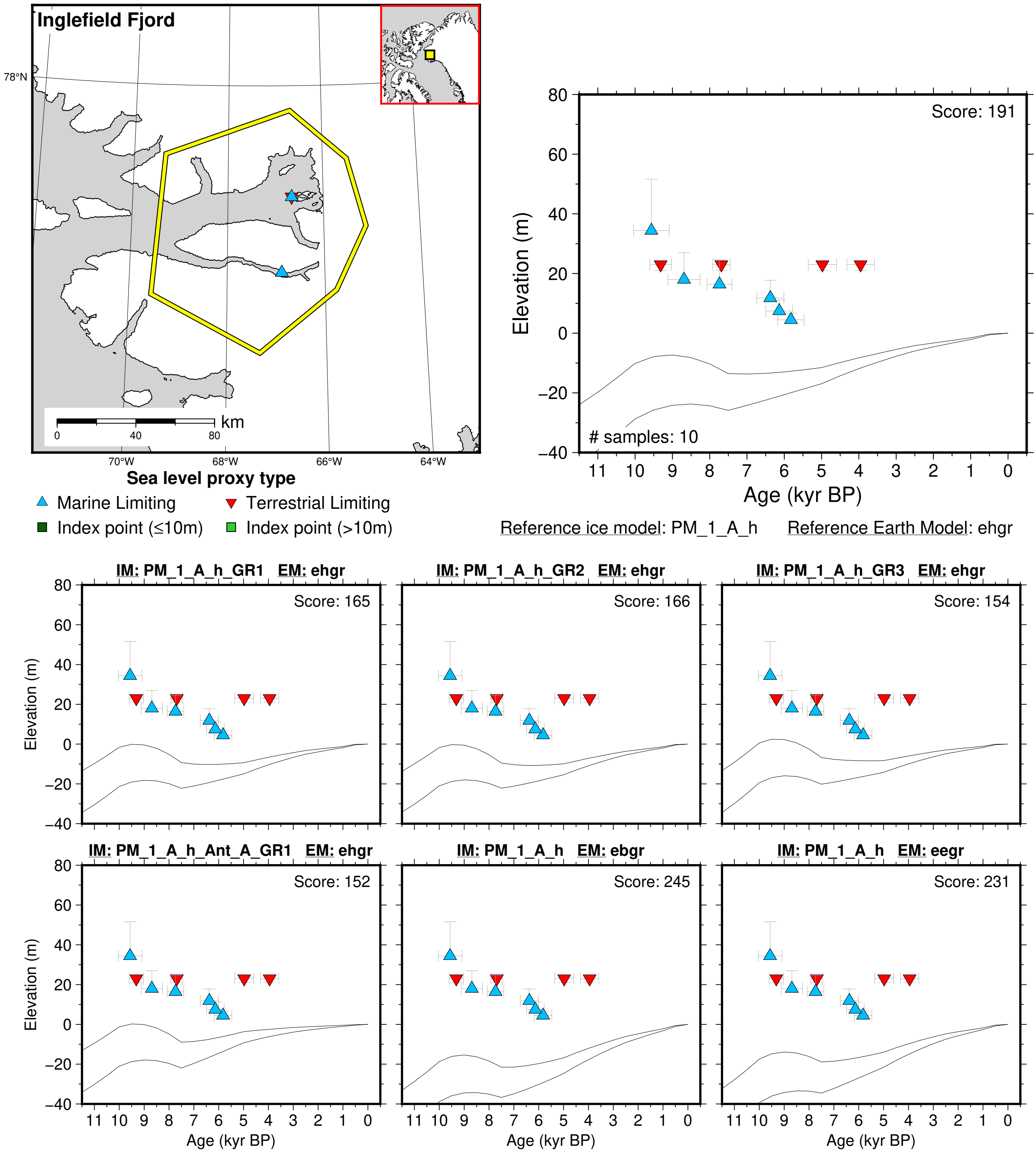

Figure 188: Paleo-sea level and comparison of six models for subregion: Northwest Greenland, location: Inglefield Fjord. References: Blake et al. (1996); Fredskild (1985); Weidick (1976).

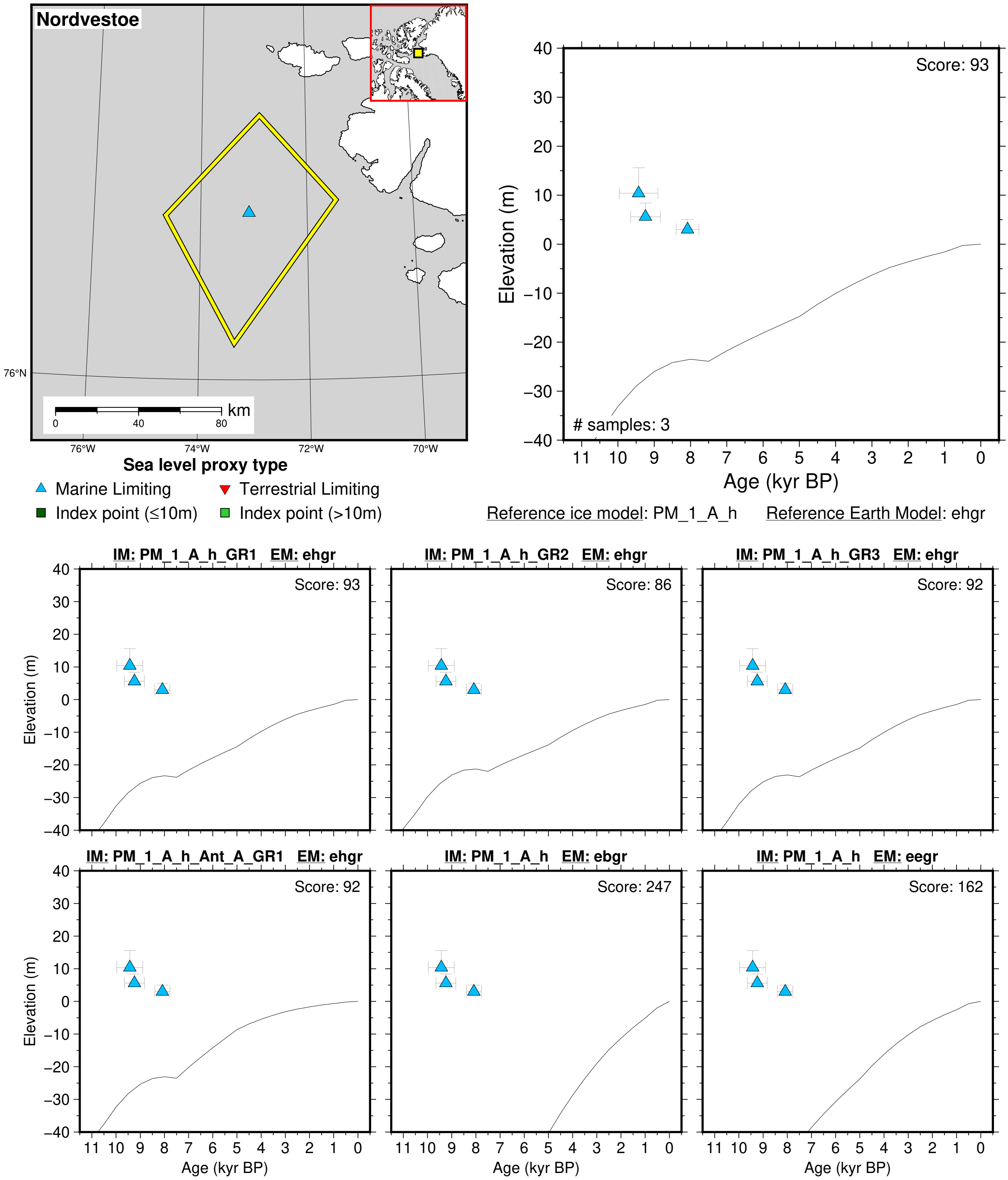

Figure 189: Paleo-sea level and comparison of six models for subregion: Northwest Greenland, location: Nordvestoe. References: Kelly et al. (1999).

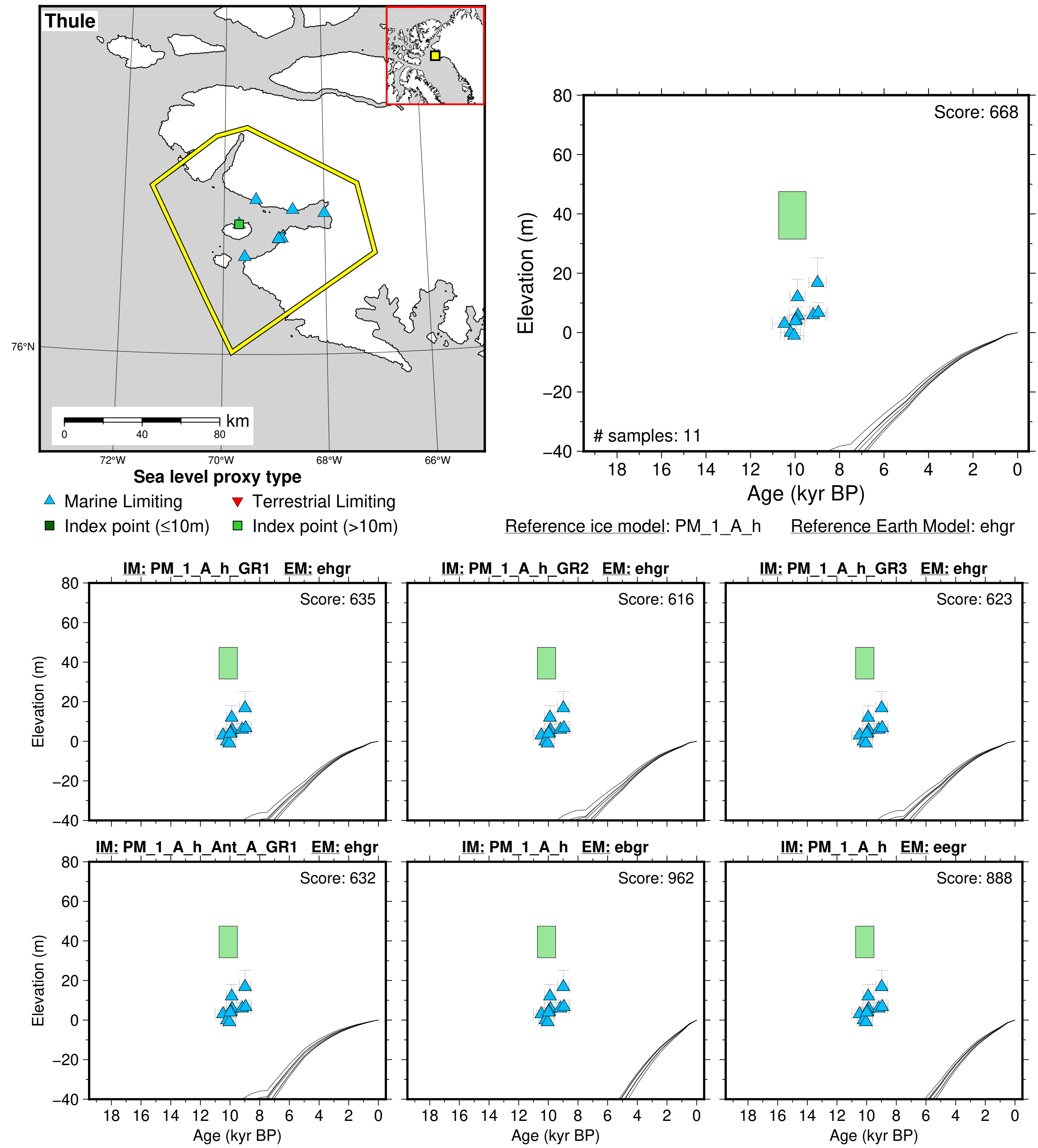

Figure 190: Paleo-sea level and comparison of six models for subregion: Northwest Greenland, location: Thule. References: Funder (1990b); Kelly et al. (1999).

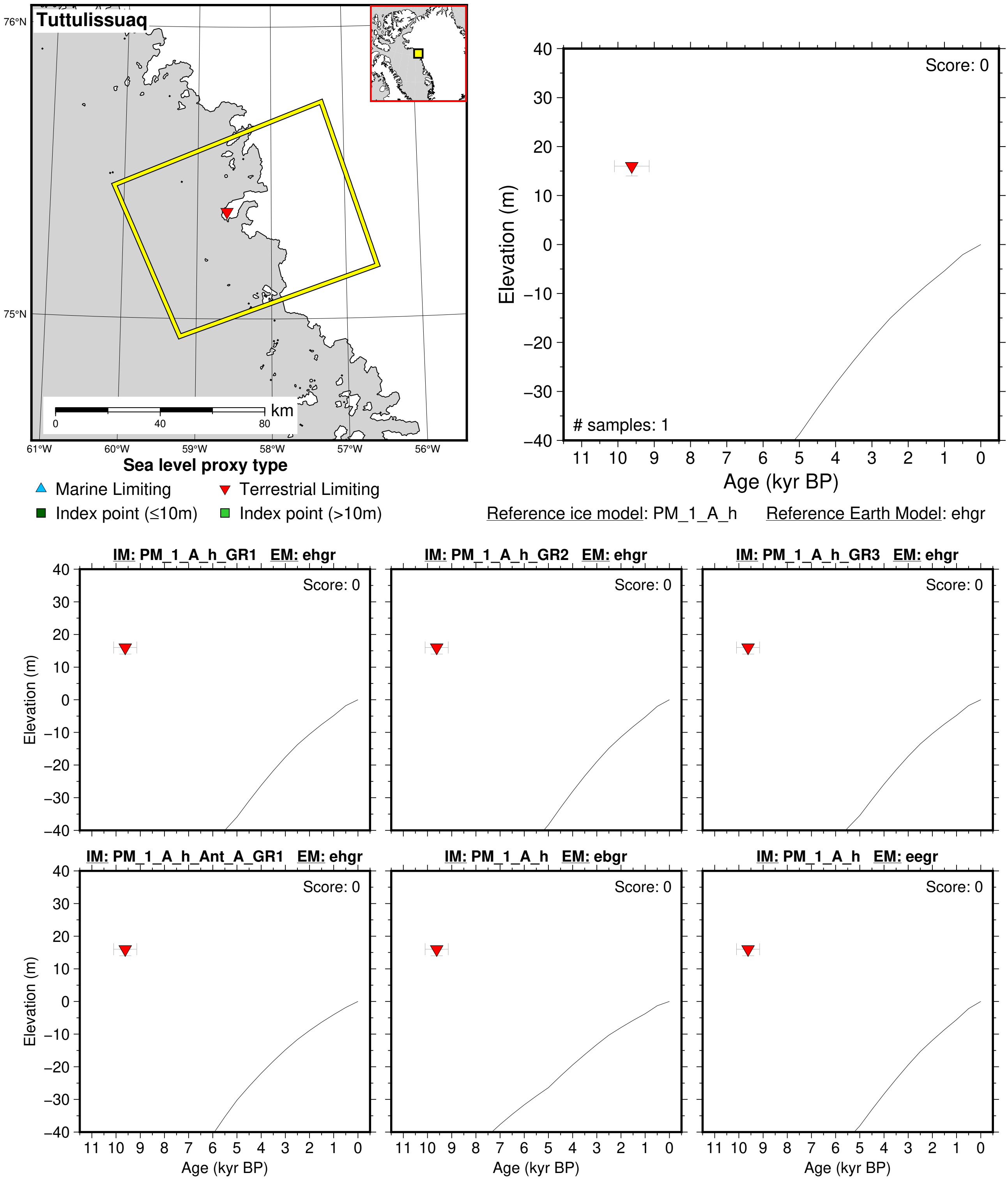

Figure 191: Paleo-sea level and comparison of six models for subregion: Northwest Greenland, location: Tuttulissuaq. References: Blake (1987); Fredskild (1985).

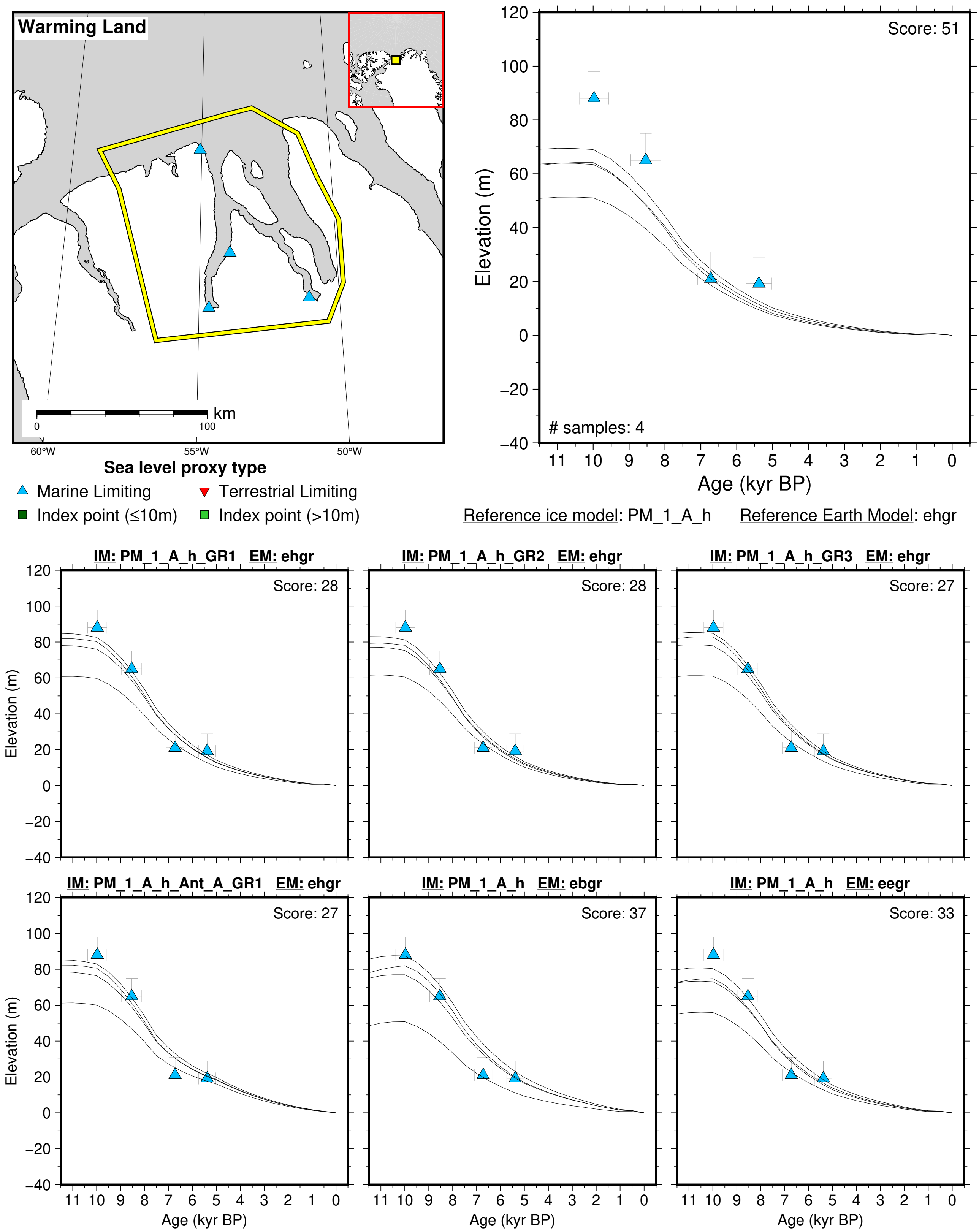

Figure 192: Paleo-sea level and comparison of six models for subregion: Northwest Greenland, location: Warming Land. References: Bennike and Kelly (1987); Kelly and Bennike (1985, 1992).

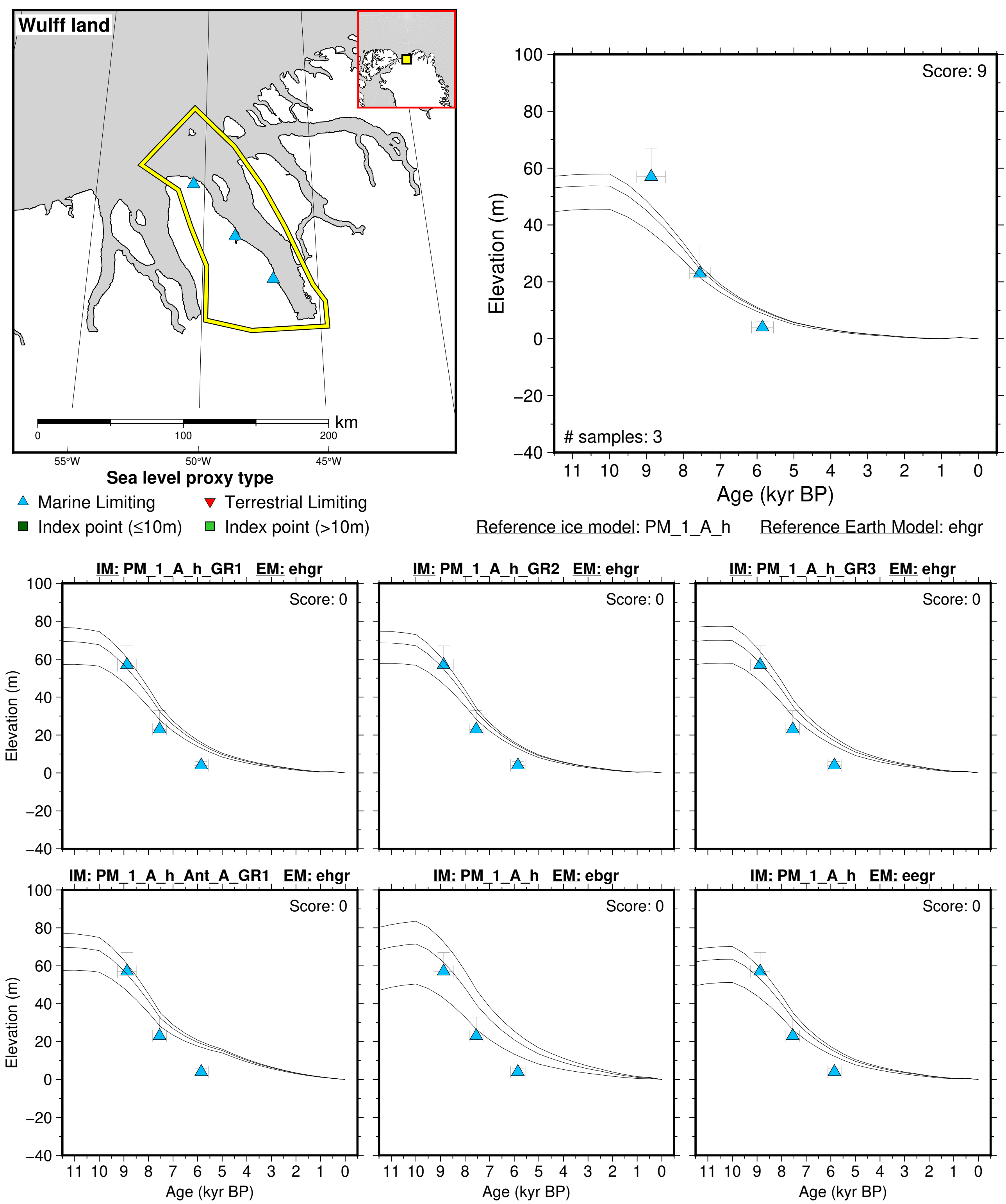

Figure 193: Paleo-sea level and comparison of six models for subregion: Northwest Greenland, location: Wulff land. References: Bennike and Kelly (1987); Kelly and Bennike (1992).

6.7.3 Southeast Greenland

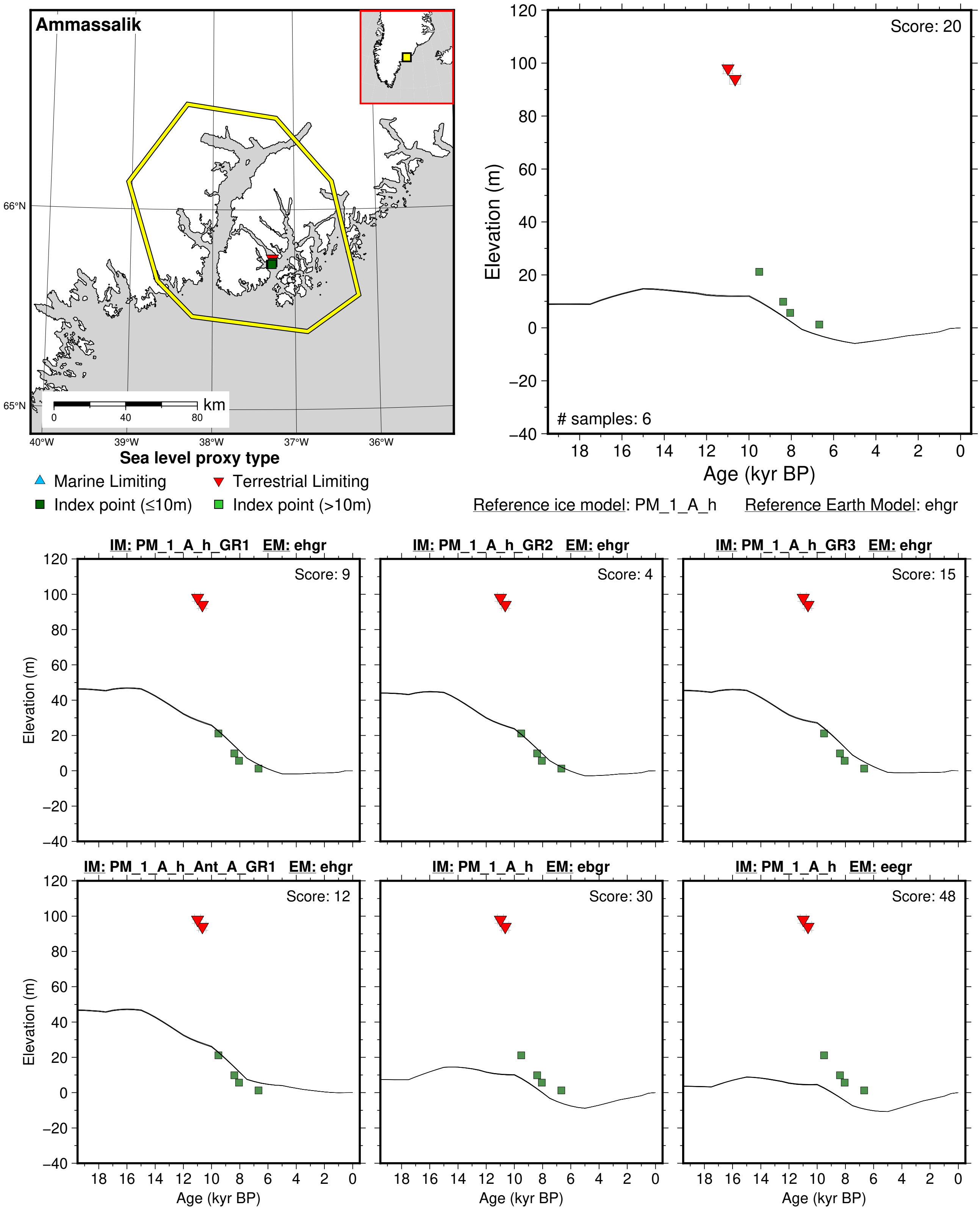

Figure 194: Paleo-sea level and comparison of six models for subregion: Southeast Greenland, location: Ammassalik. References: Long et al. (2008, 2011).

6.7.4 Southwest Greenland

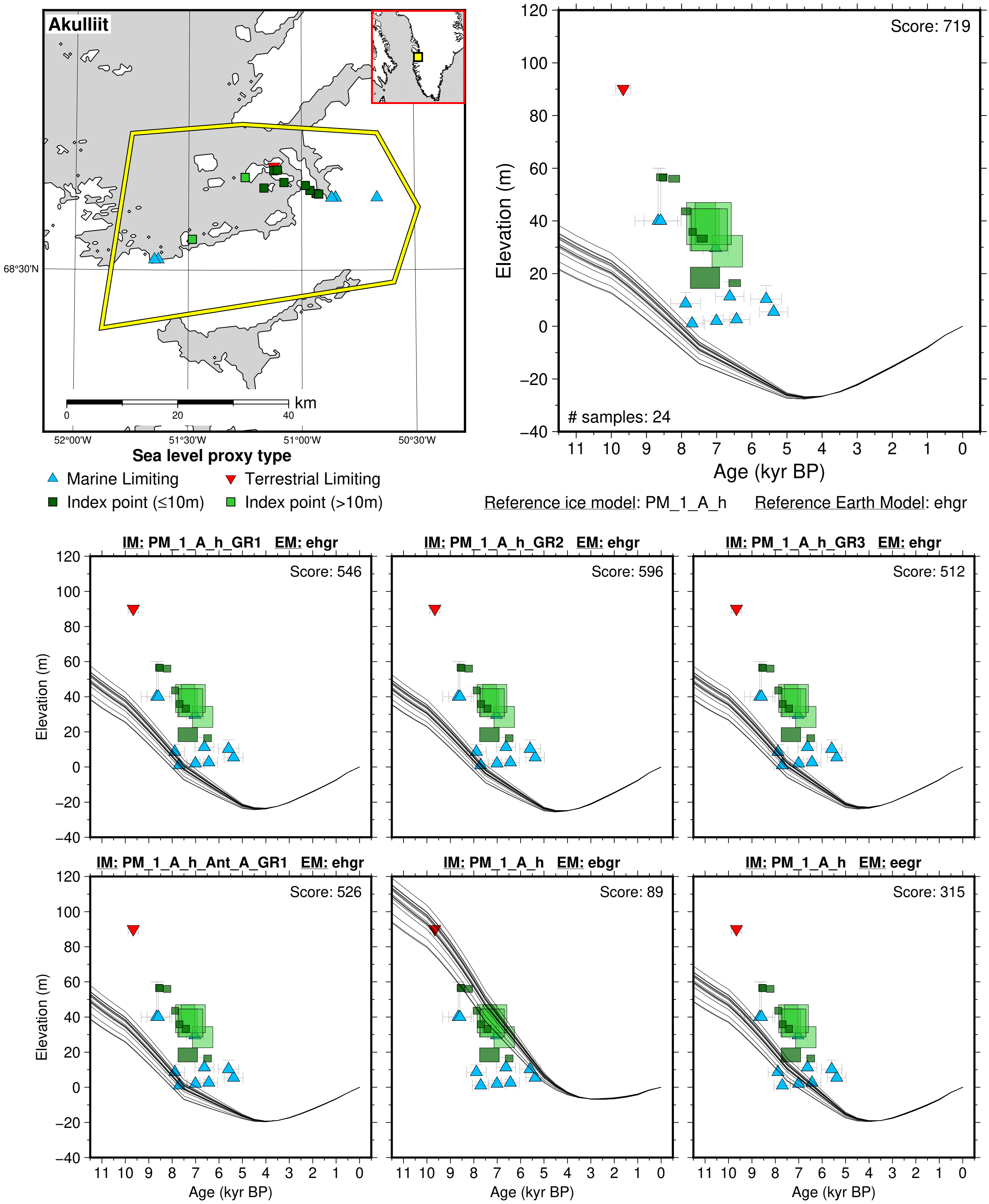

Figure 195: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Akulliit. References: Jungner (1979); Long and Roberts (2002); Long et al. (2011); Weidick (1972b, 1974, 1976).

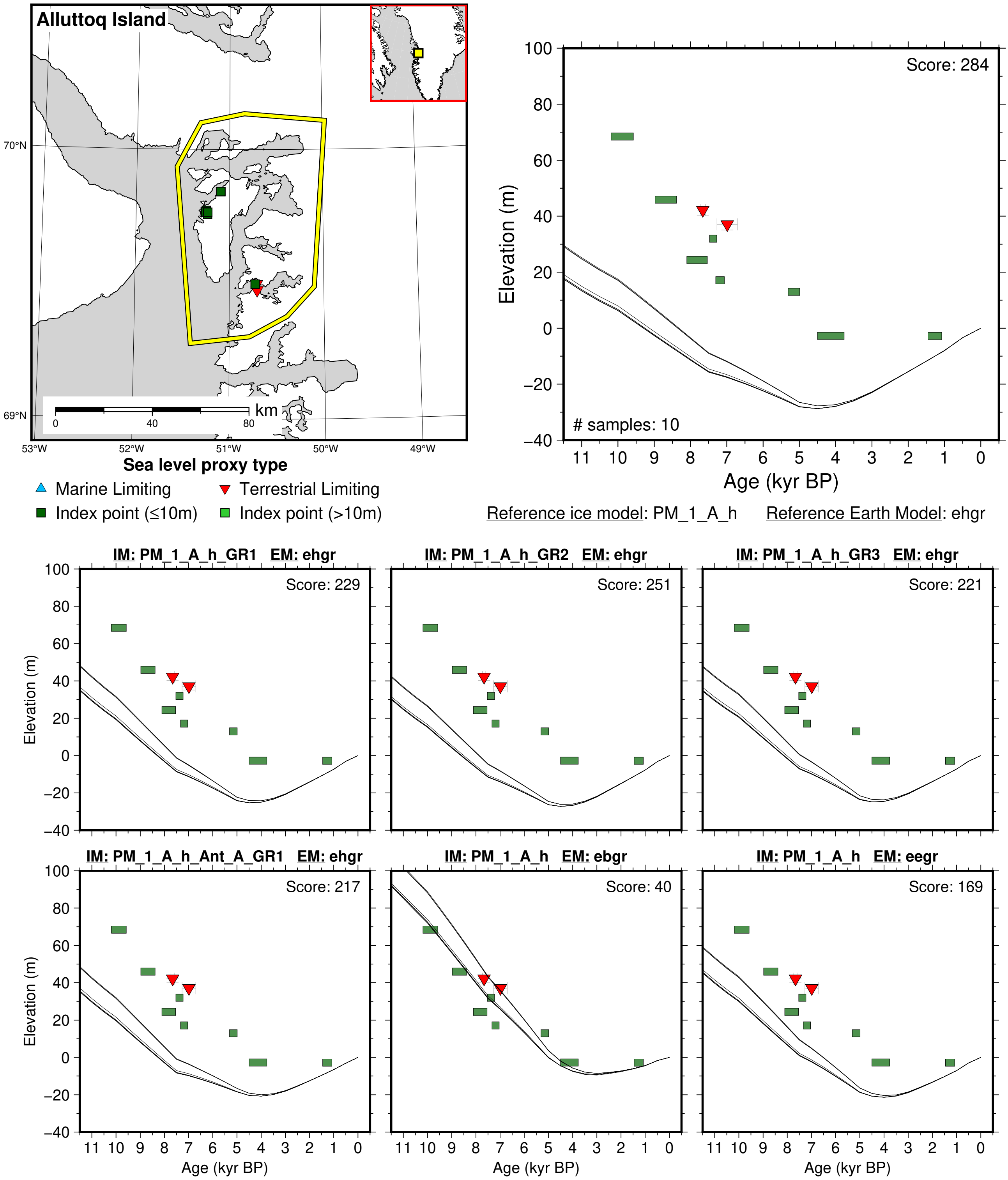

Figure 196: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Alluttoq Island. References: Long et al. (2006, 1999, 2011).

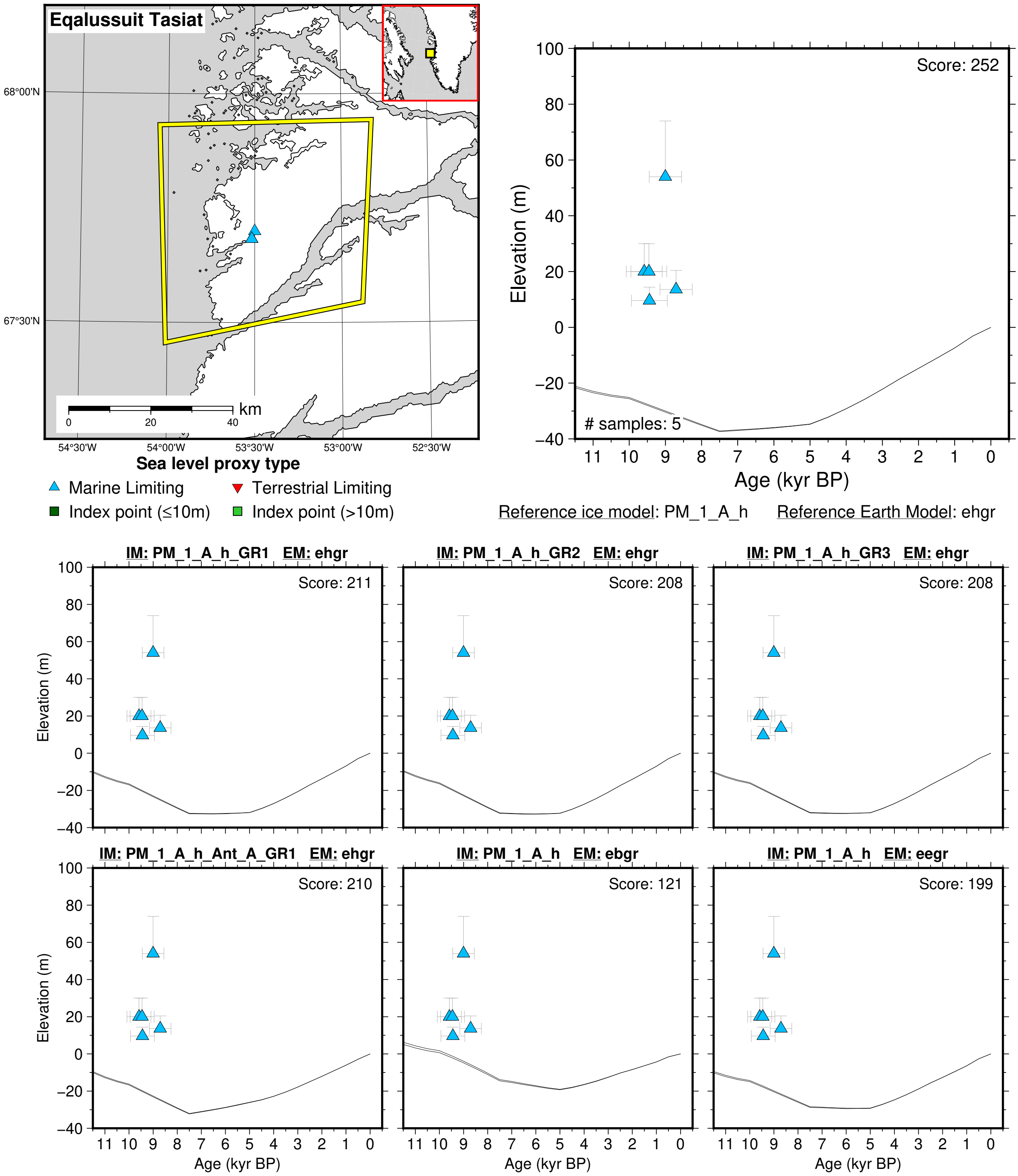

Figure 197: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Eqalussuit Tasiat. References: Weidick (1972b, 1974).

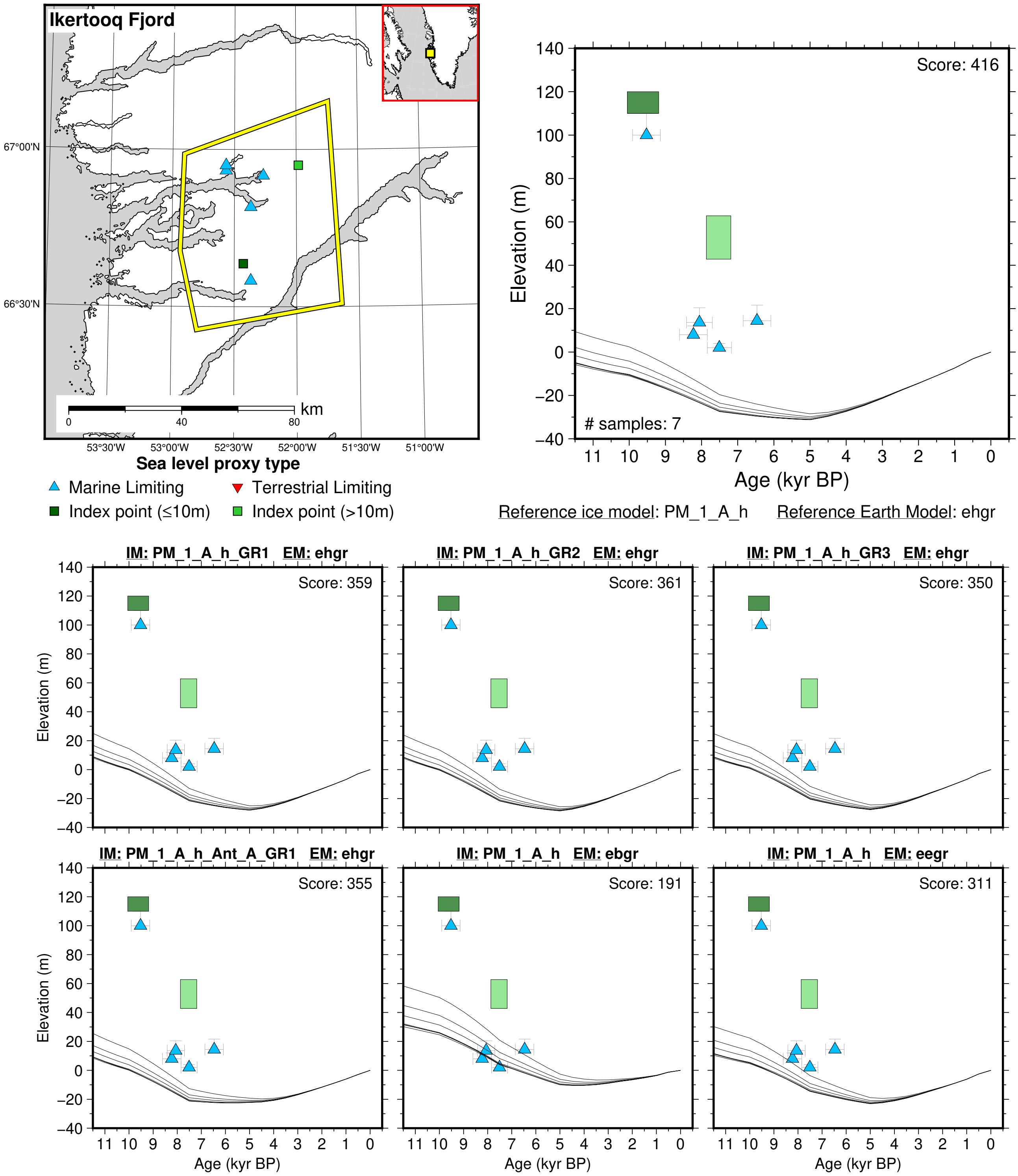

Figure 198: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Ikertooq Fjord. References: Ten Brink (1975); Ten Brink and Weidick (1974); van Tatenhove et al. (1996); Weidick (1972b, 1973).

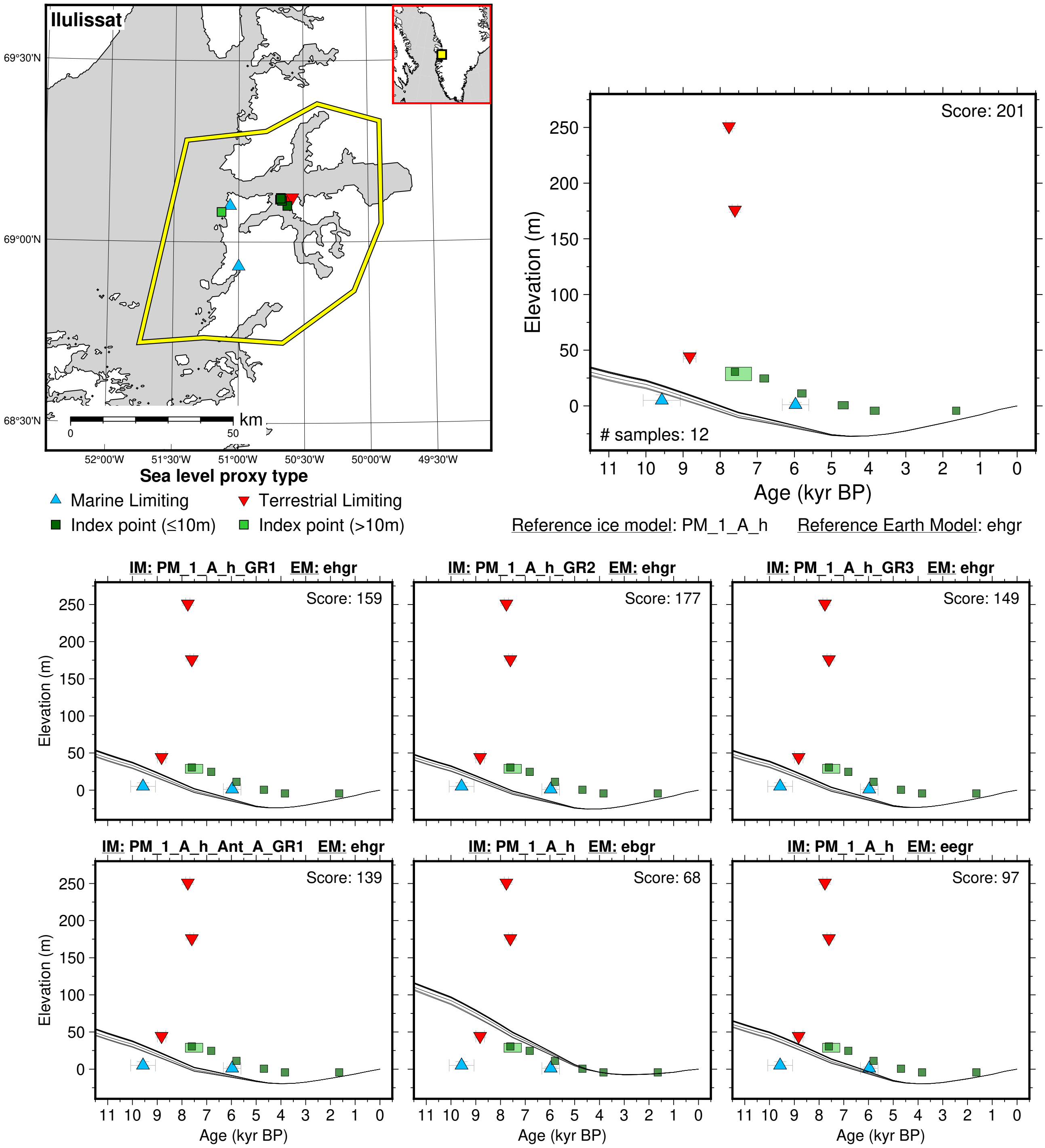

Figure 199: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Ilulissat. References: Long et al. (2006, 2011); Weidick (1972b, 1973).

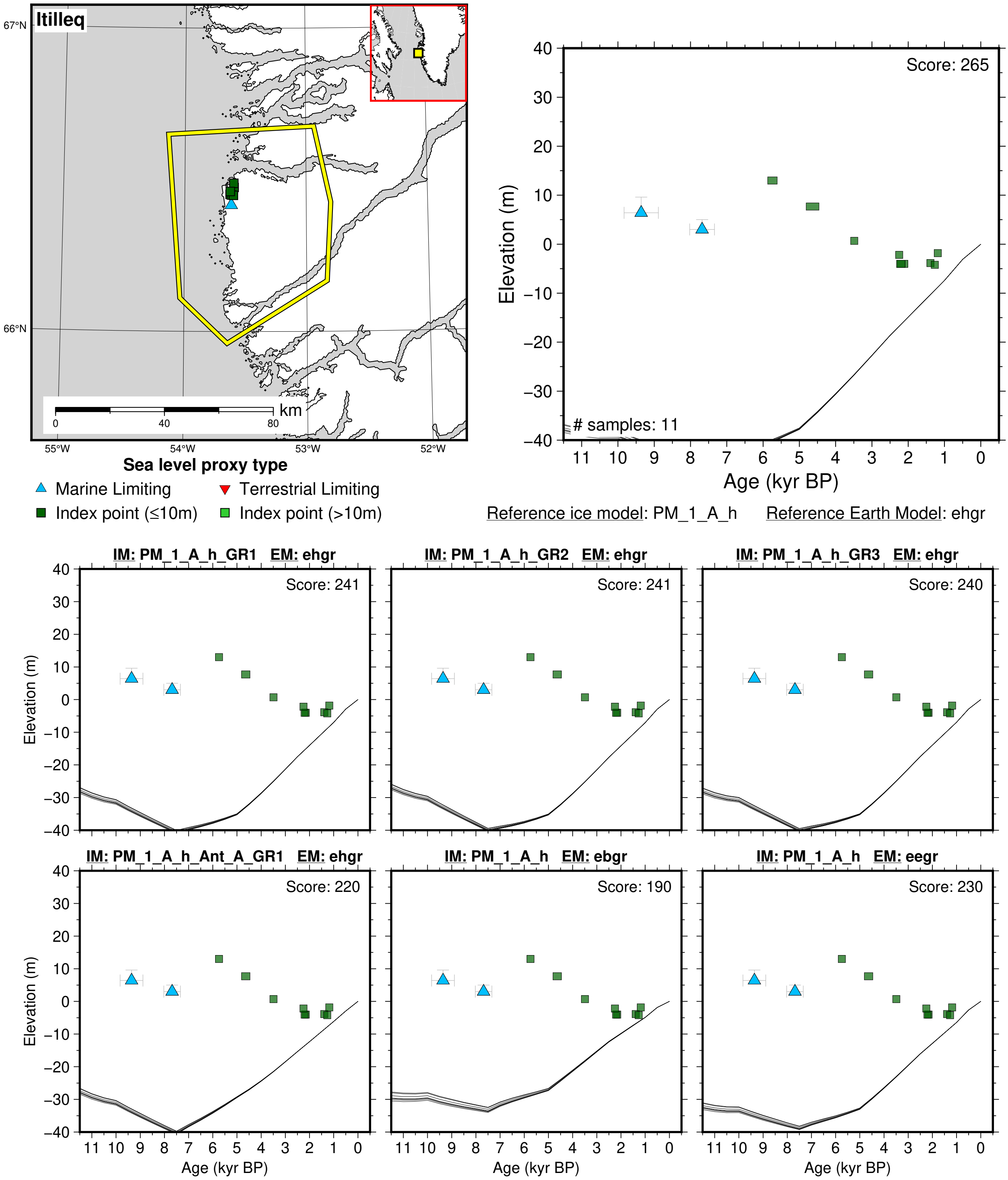

Figure 200: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Itilleq. References: Long et al. (2009, 2011); Weidick (1972b).

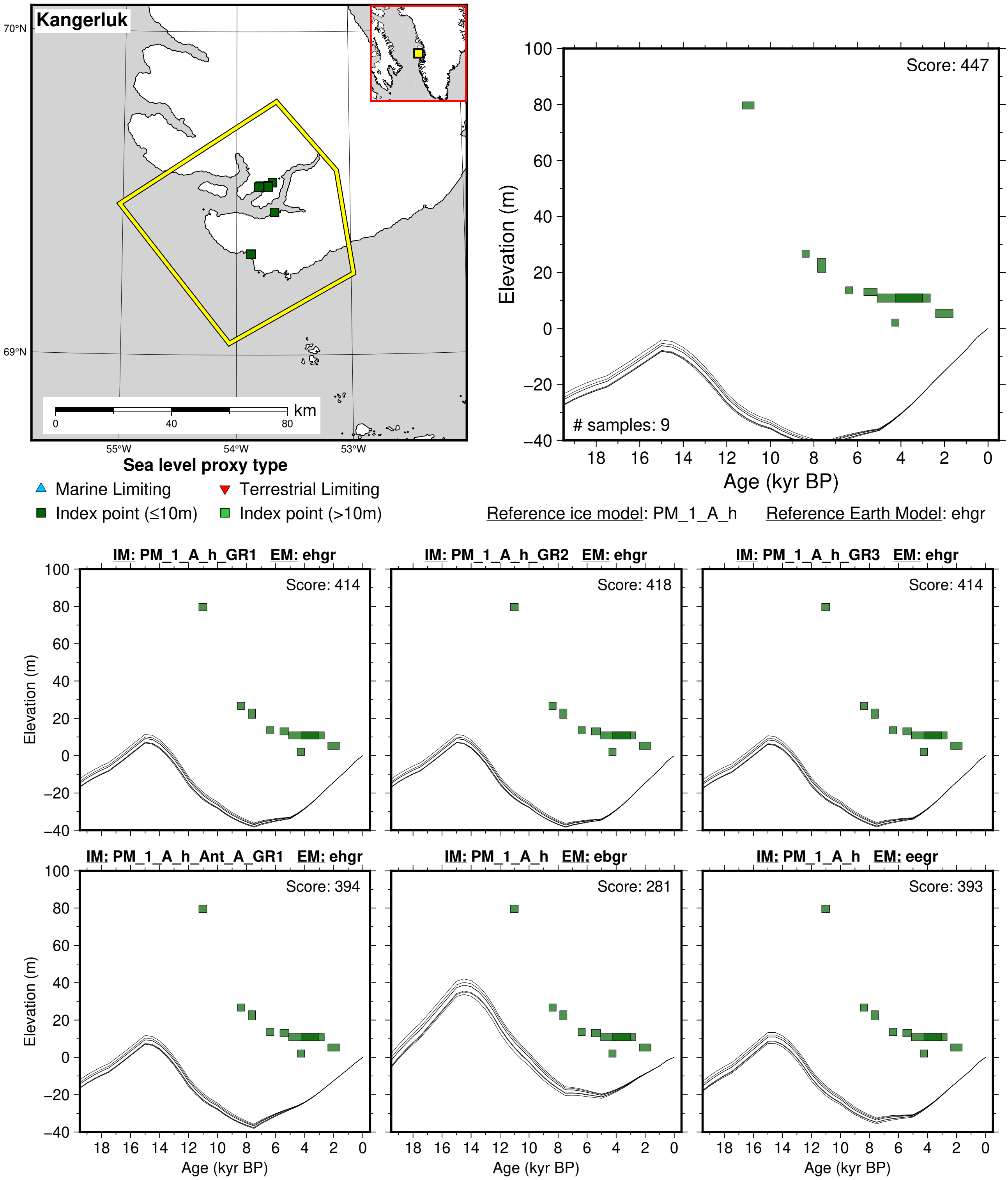

Figure 201: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Kangerluk. References: Bennike (1995); Föged (1989); Long et al. (2011); Rasch (1997); Souza et al. (2021).

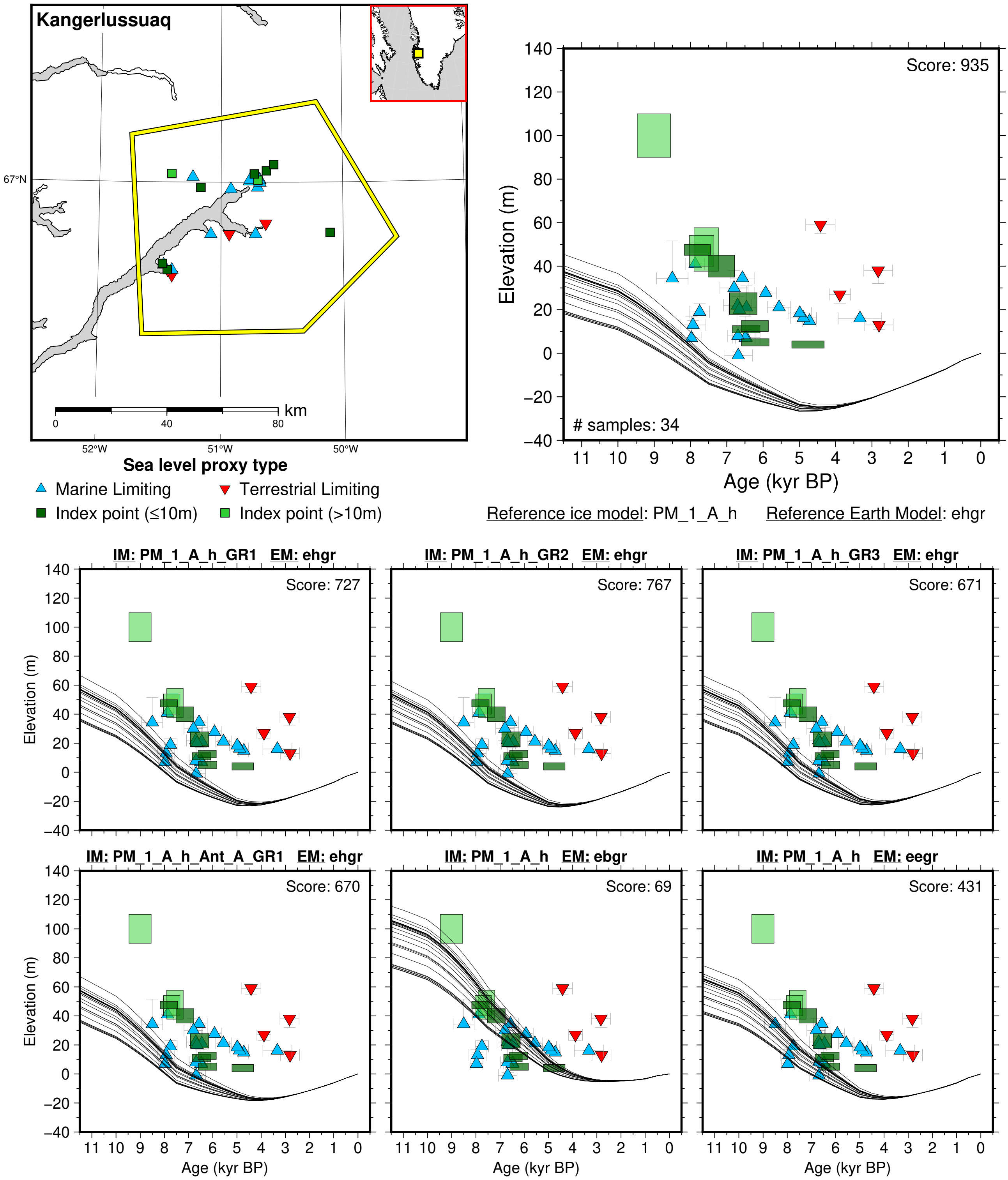

Figure 202: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Kangerlussuaq. References: Bierman et al. (2018); Storms et al. (2012); Ten Brink (1975); Ten Brink and Weidick (1974); van Tatenhove et al. (1996); Weidick (1972a,b, 1973).

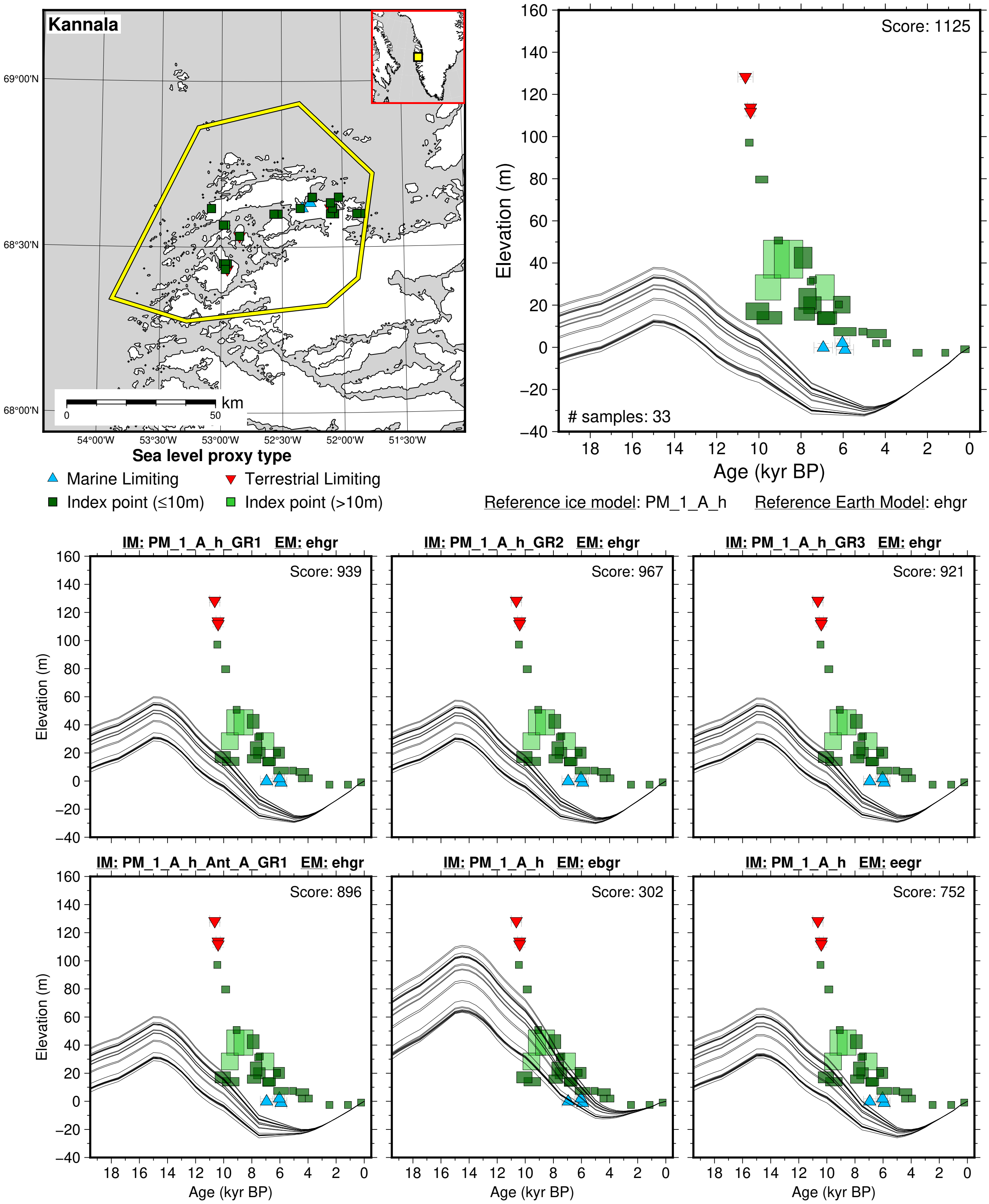

Figure 203: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Kannala. References: Jungner (1979); Long and Roberts (2003); Long et al. (2003, 2011); Weidick (1974, 1976).

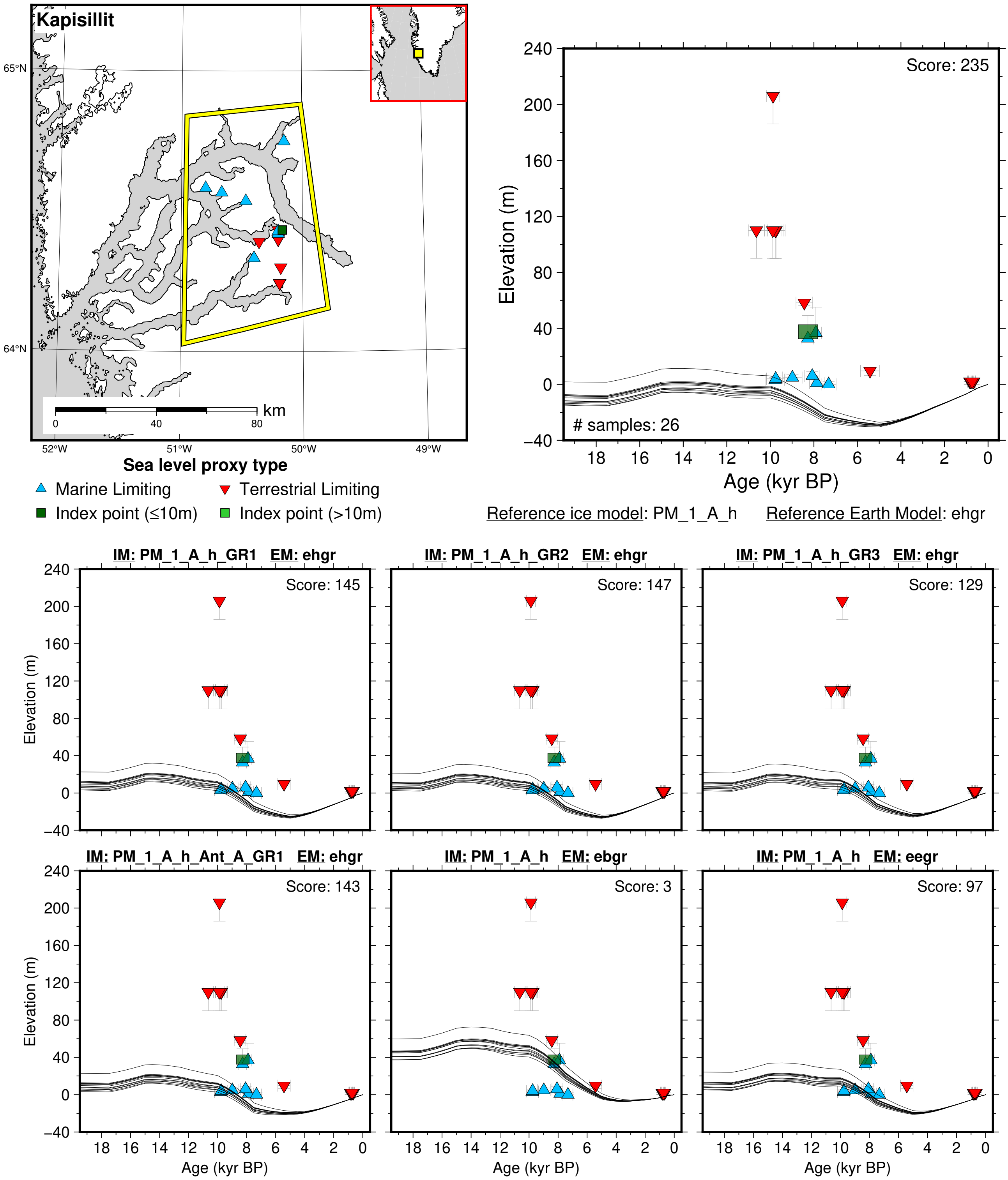

Figure 204: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Kapisillit. References: Fredskild (1973, 1983); Larsen et al. (2014); McGovern et al. (1996); Weidick (1968, 1972a, 1975, 1976); Weidick et al. (2012).

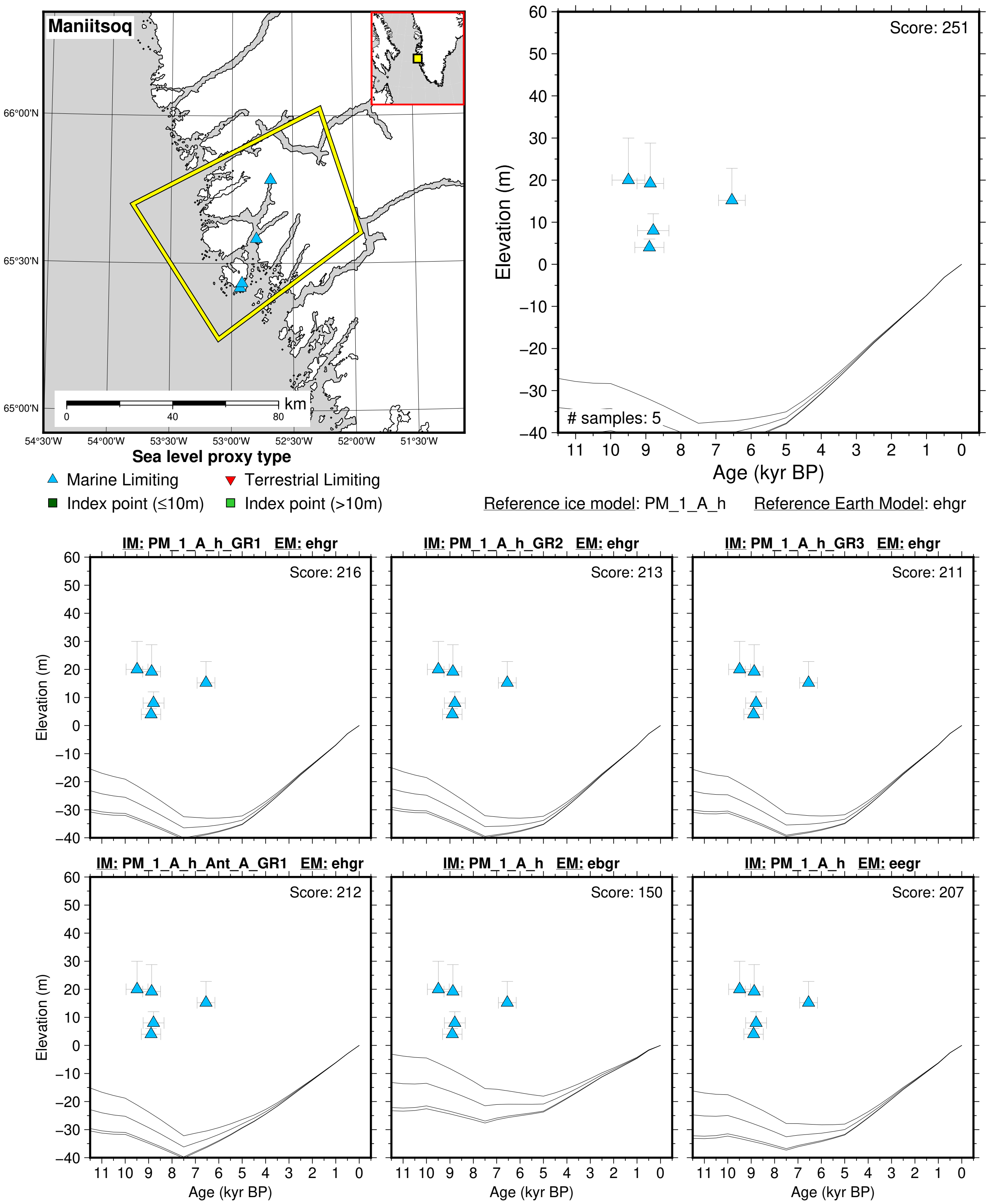

Figure 205: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Maniitsoq. References: Weidick (1973).

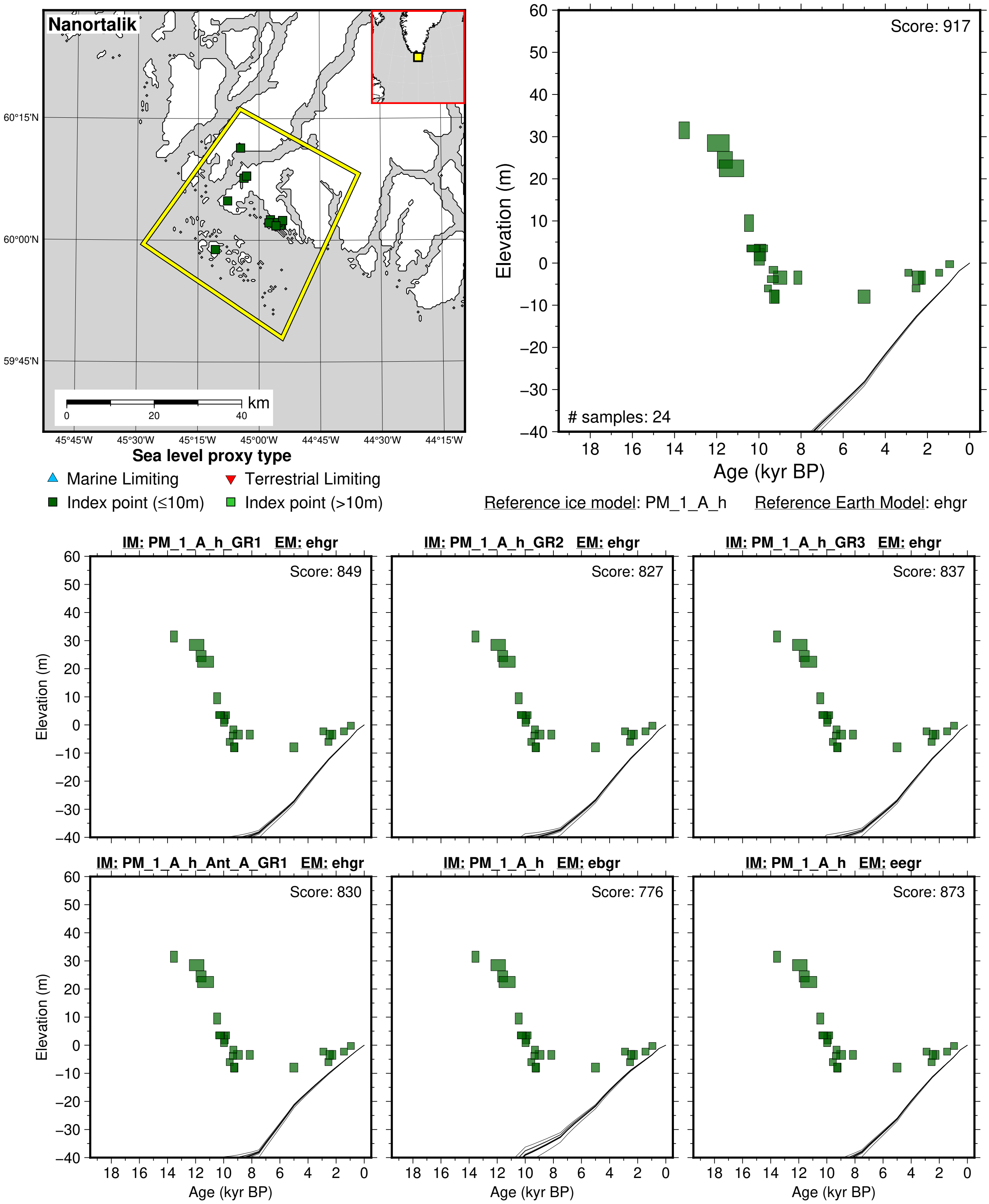

Figure 206: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Nanortalik. References: Bennike et al. (2002); Long et al. (2011); Sparrenbom et al. (2006b).

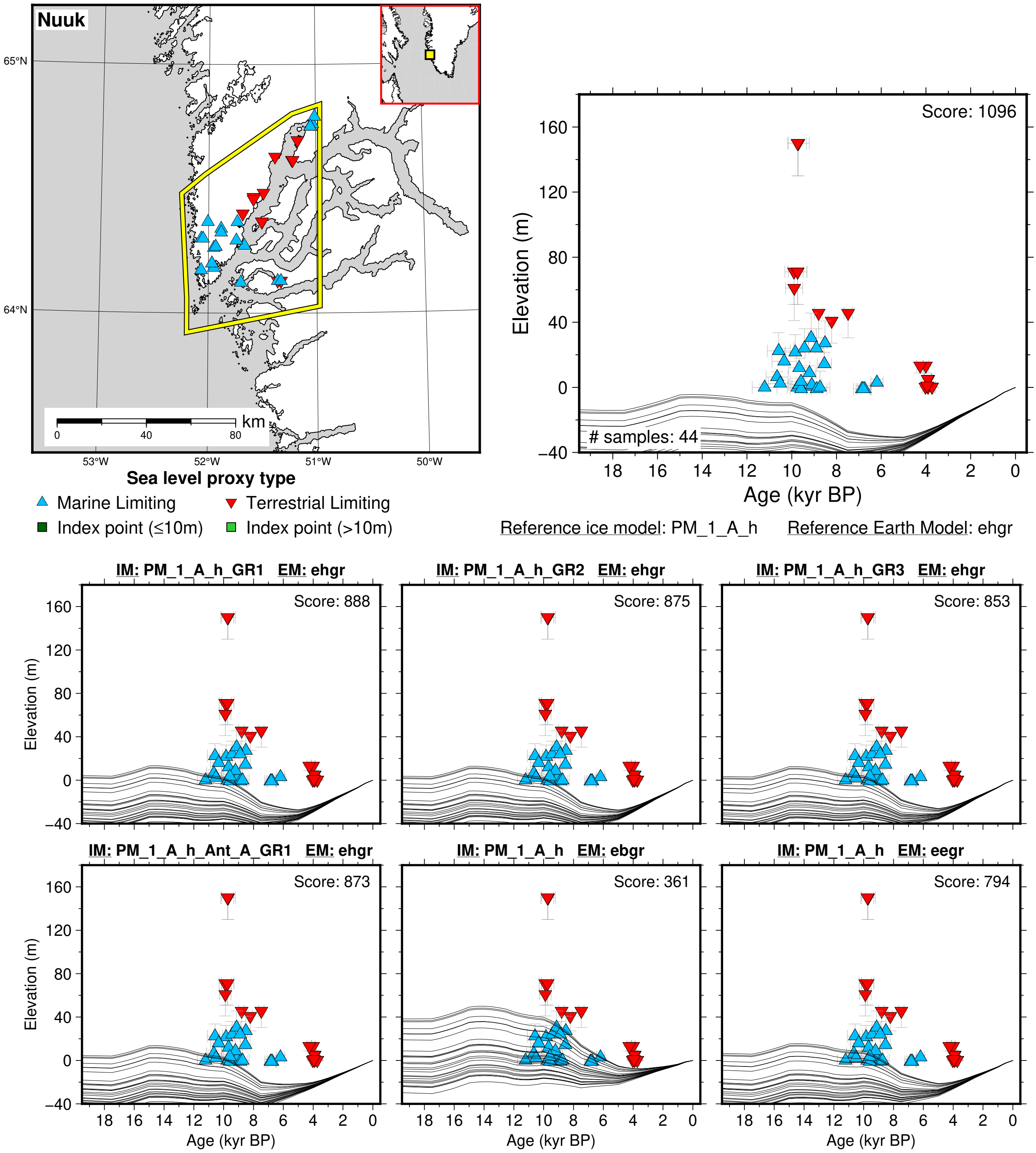

Figure 207: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Nuuk. References: Berglund (2003); Fredskild (1983); Hinnerson-Berglund (2004); Larsen et al. (2014, 2017); Weidick (1973, 1976).

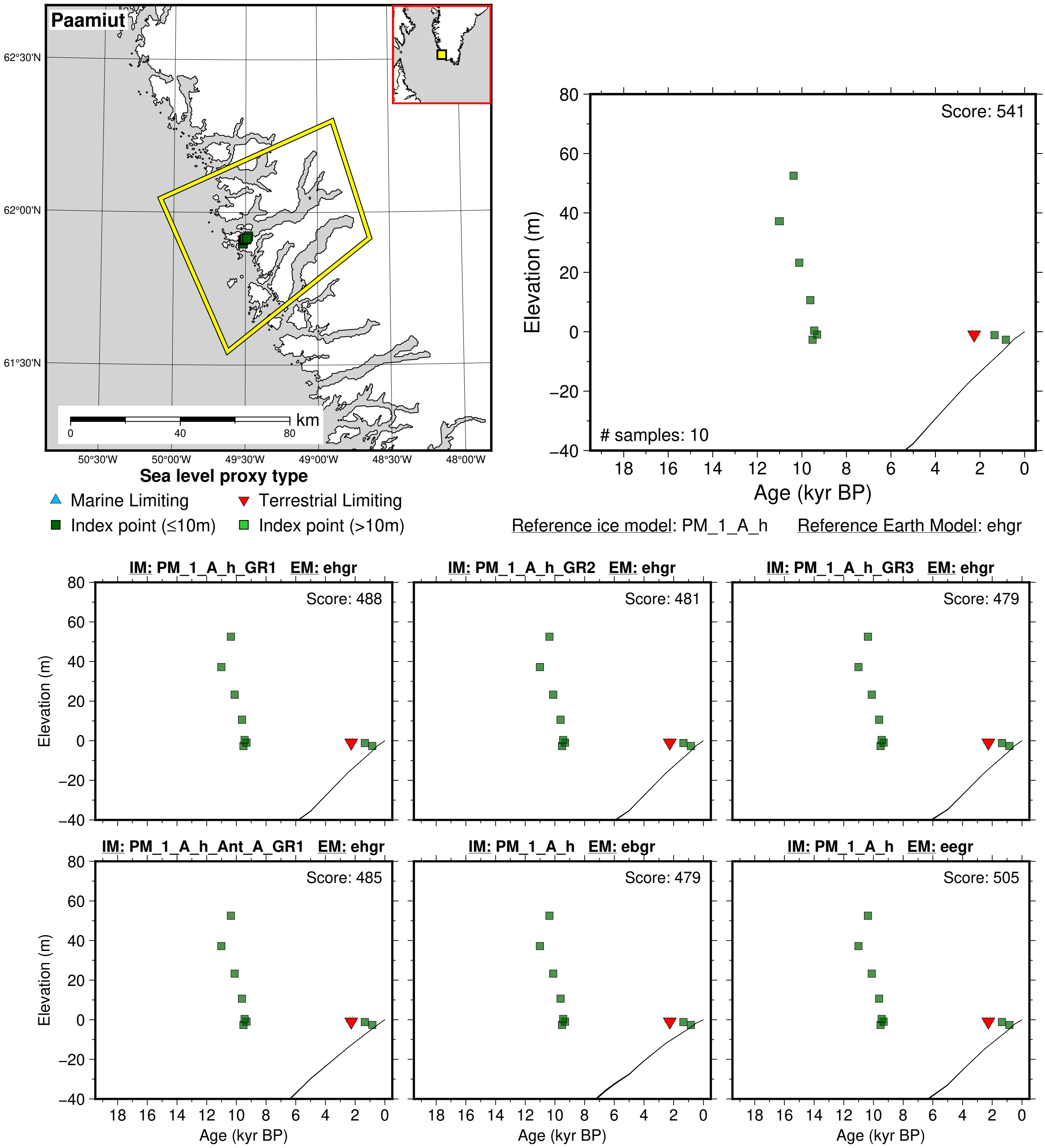

Figure 208: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Paamiut. References: Woodroffe et al. (2014).

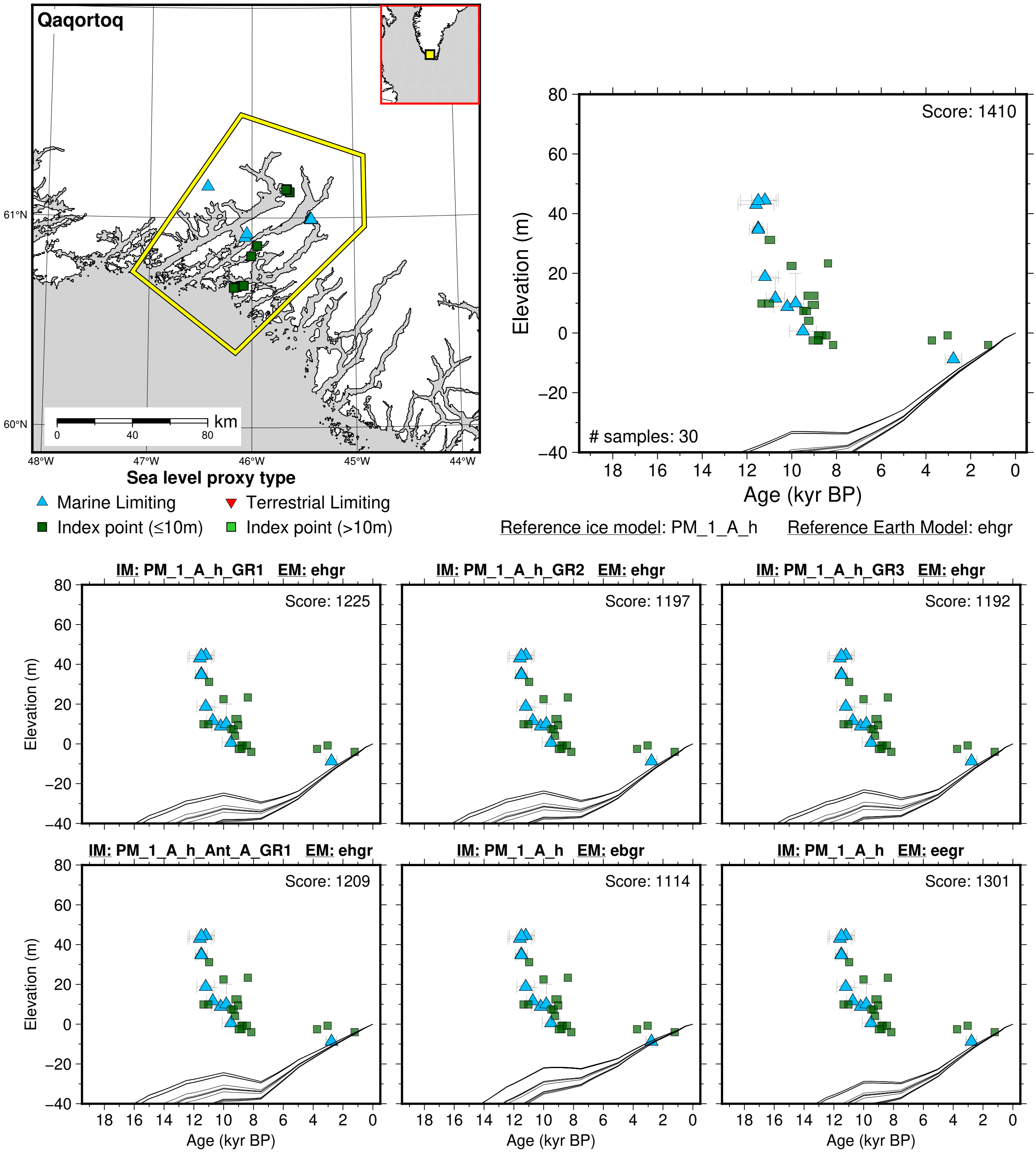

Figure 209: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Qaqortoq. References: Bennike et al. (2002); Bierman et al. (2018); Fredh (2008); Long et al. (2011); Randsalu (2008); Sparrenbom et al. (2006a); Weidick (1975).

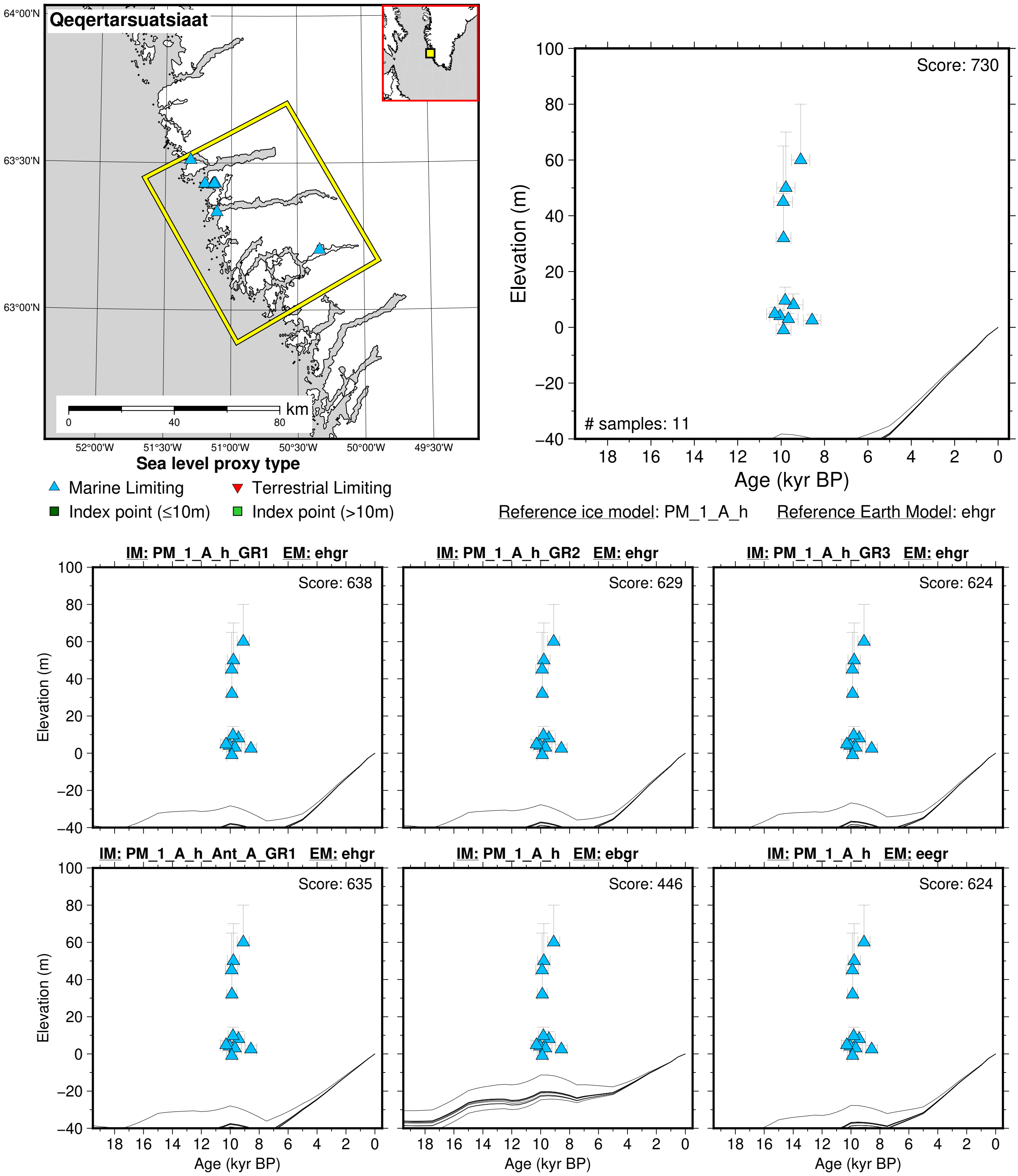

Figure 210: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Qeqertarsuatsiaat. References: Larsen et al. (2014); Weidick (1975).

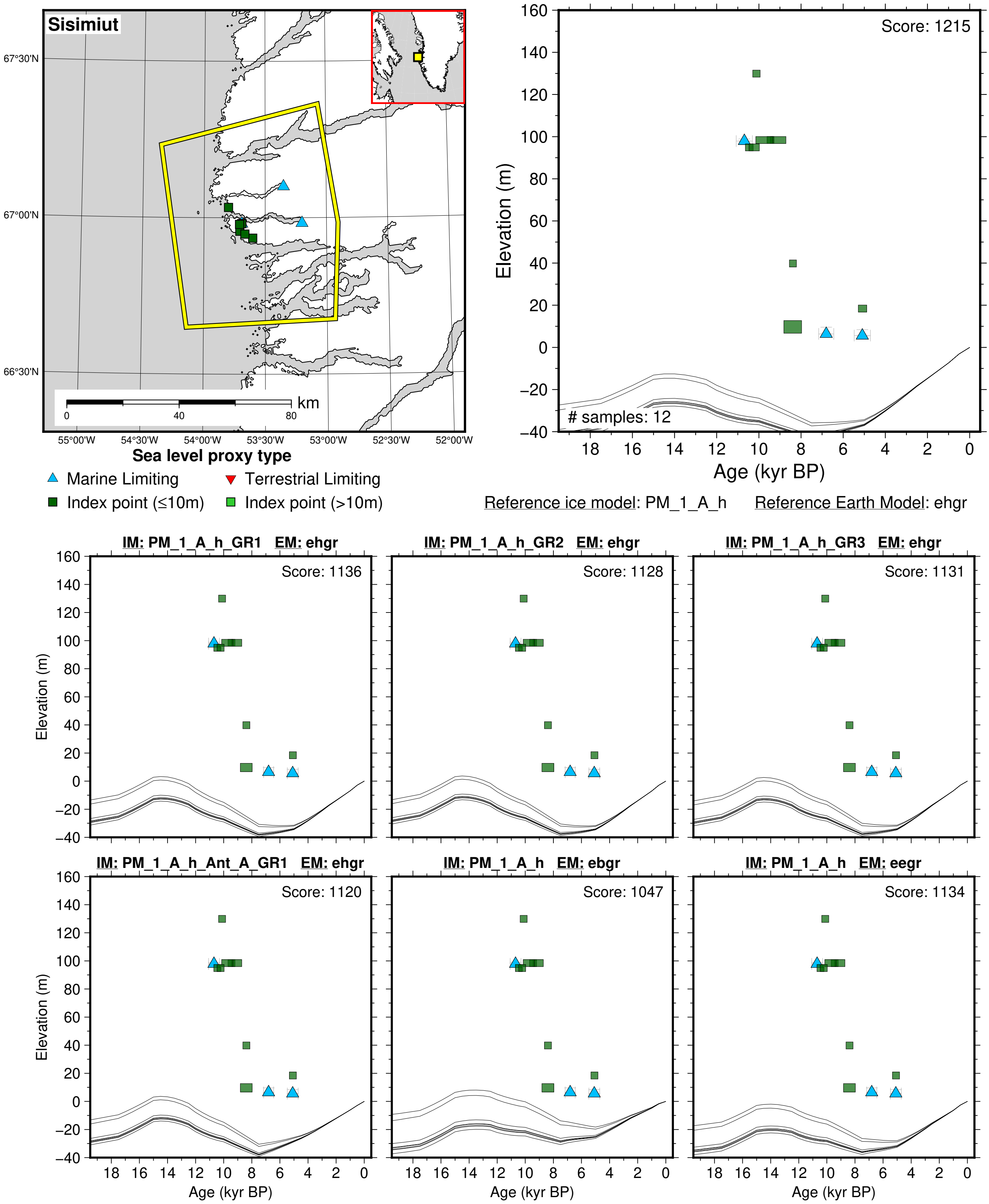

Figure 211: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Sisimiut. References: Bennike et al. (2011); Long et al. (2011); Weidick (1972b, 1973).

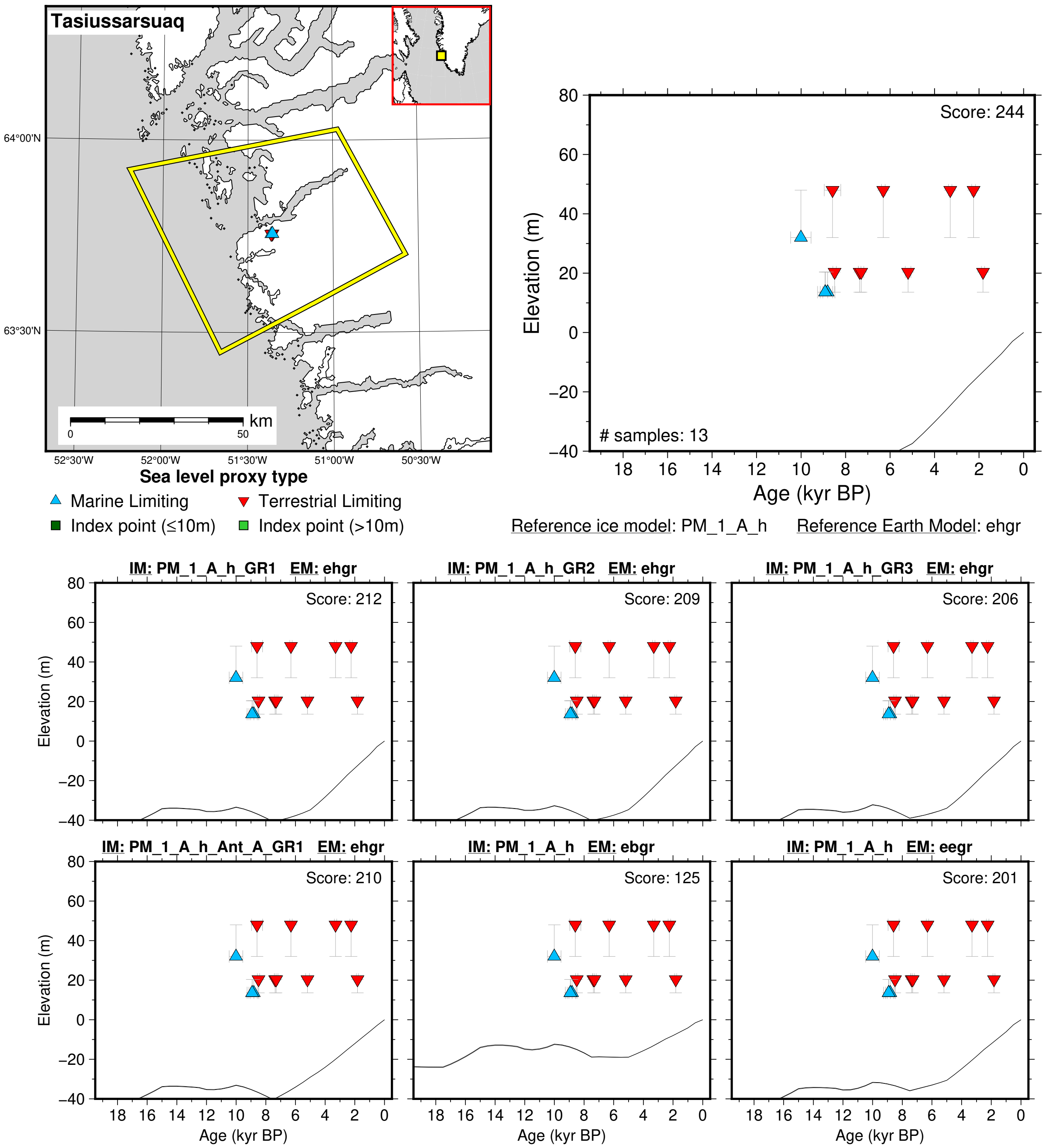

Figure 212: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Tasiussarsuaq. References: Lasher et al. (2020).

6.8 North America Arctic

6.8.1 Hudson Bay

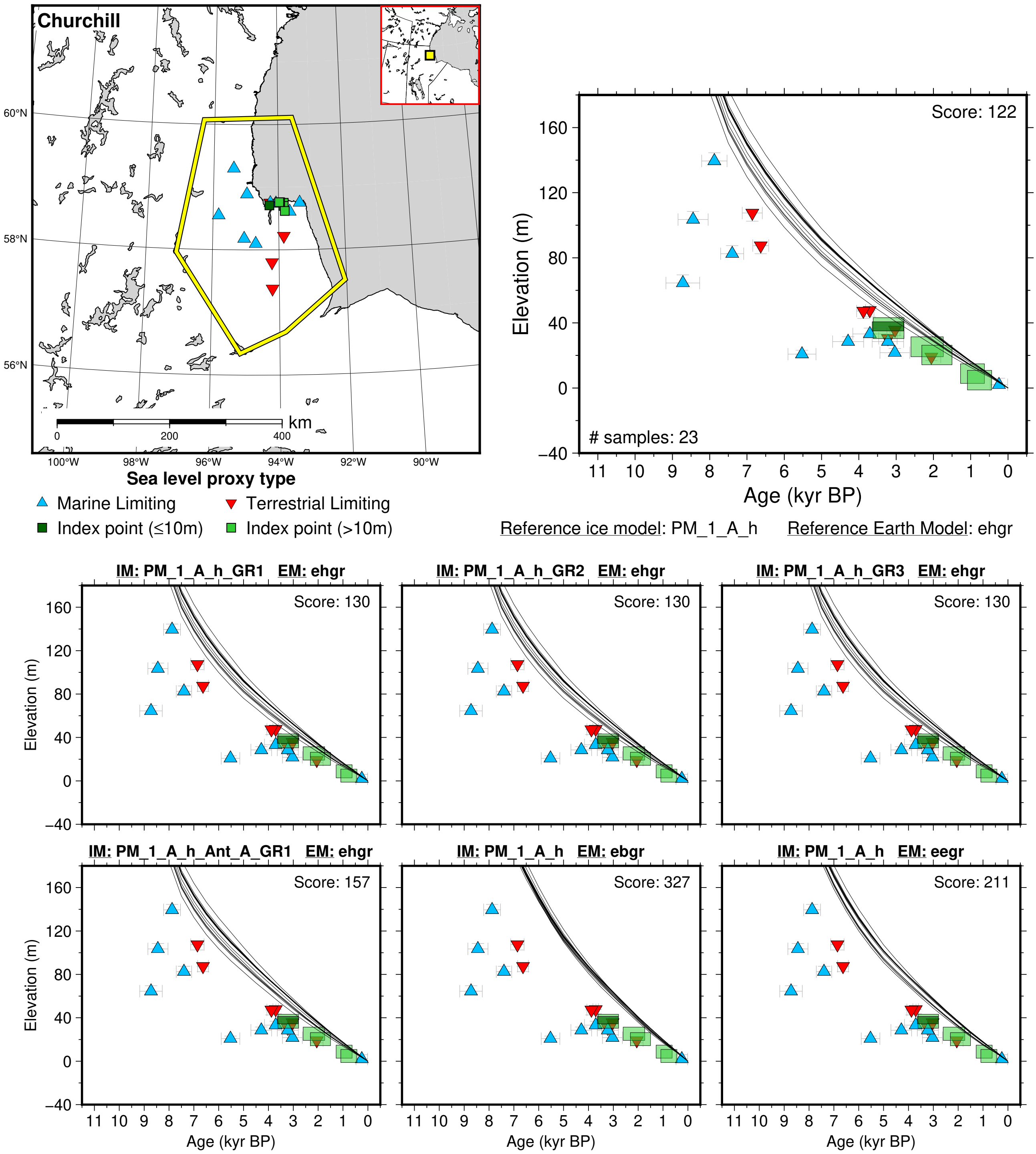

Figure 213: Paleo-sea level and comparison of six models for subregion: Hudson Bay, location: Churchill. References: Anderson and Hodgetts (2007); Andrews and Falconer (1969); Blake (1982, 1988); Dyck and Fyles (1964); Hodgetts (2007); Kuhry (2008); Lowdon and Blake (1973); Lowdon et al. (1971); Meyer (1970); Morlan et al. (2000); Nash (1972); Simon et al. (2016); Vacchi et al. (2018); Wagner (1967).

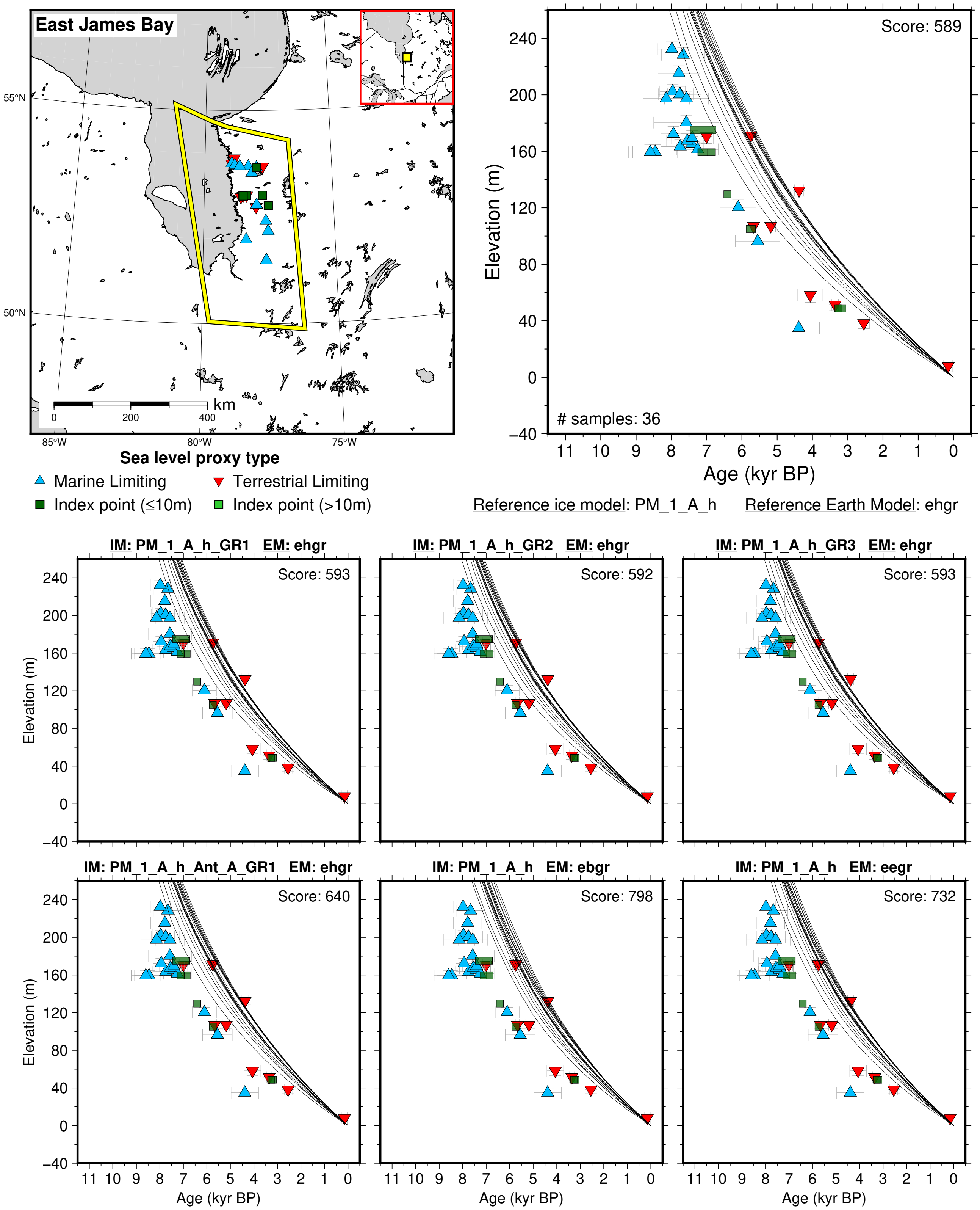

Figure 214: Paleo-sea level and comparison of six models for subregion: Hudson Bay, location: East James Bay. References: Beaulieu-Audy et al. (2009); Farrand (1962); Hardy (1976); Pendea et al. (2010); Vacchi et al. (2018).

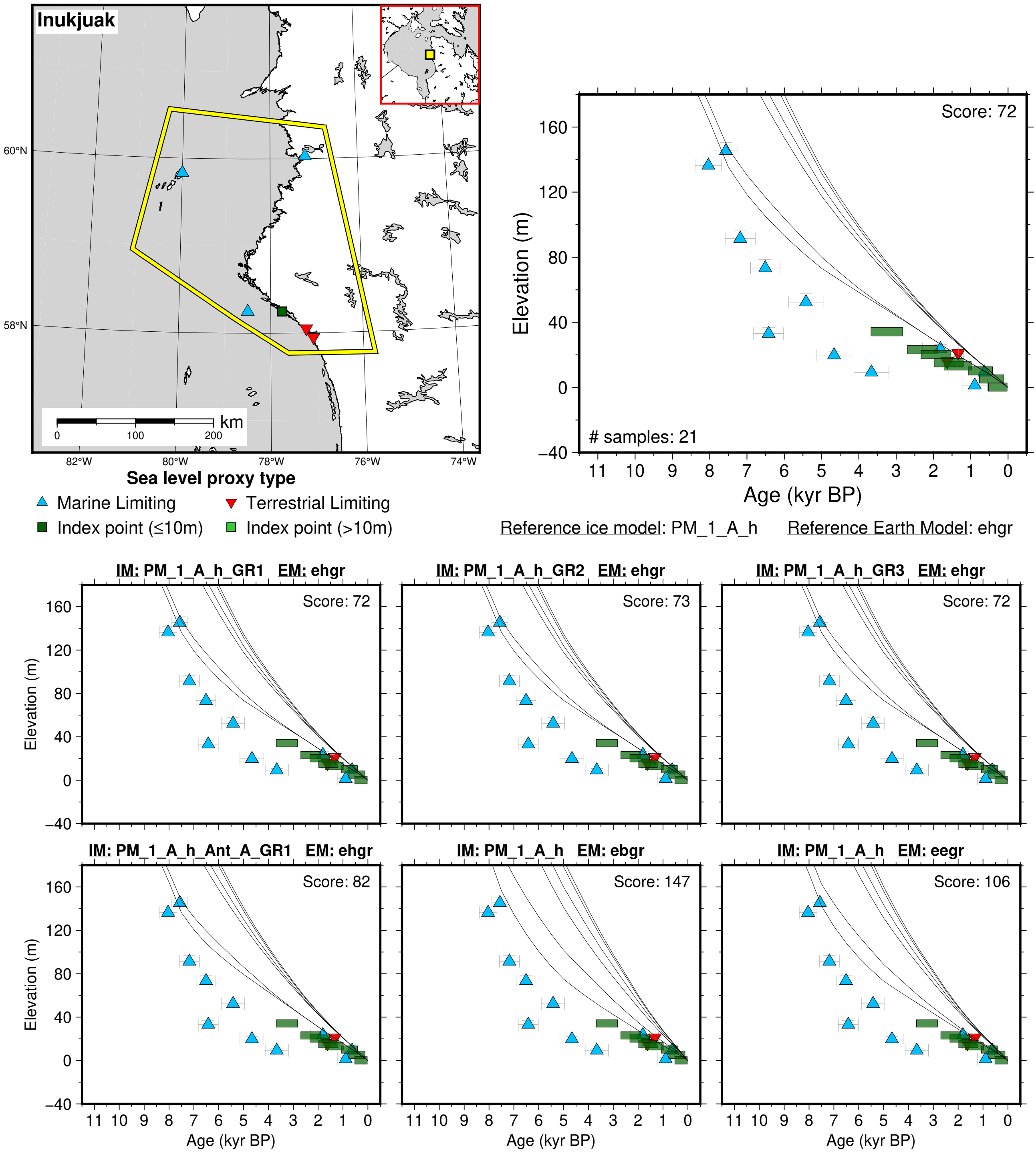

Figure 215: Paleo-sea level and comparison of six models for subregion: Hudson Bay, location: Inukjuak. References: Andrews and Falconer (1969); Andrews and Short (1983); Buckley and Willis (1970); Harington (2003); Lauriol and Gray (1997); Lemieux et al. (2011); Lowdon and Blake (1968); Saint-Laurent and Filion (1992); Vacchi et al. (2018); Wagner (1967).

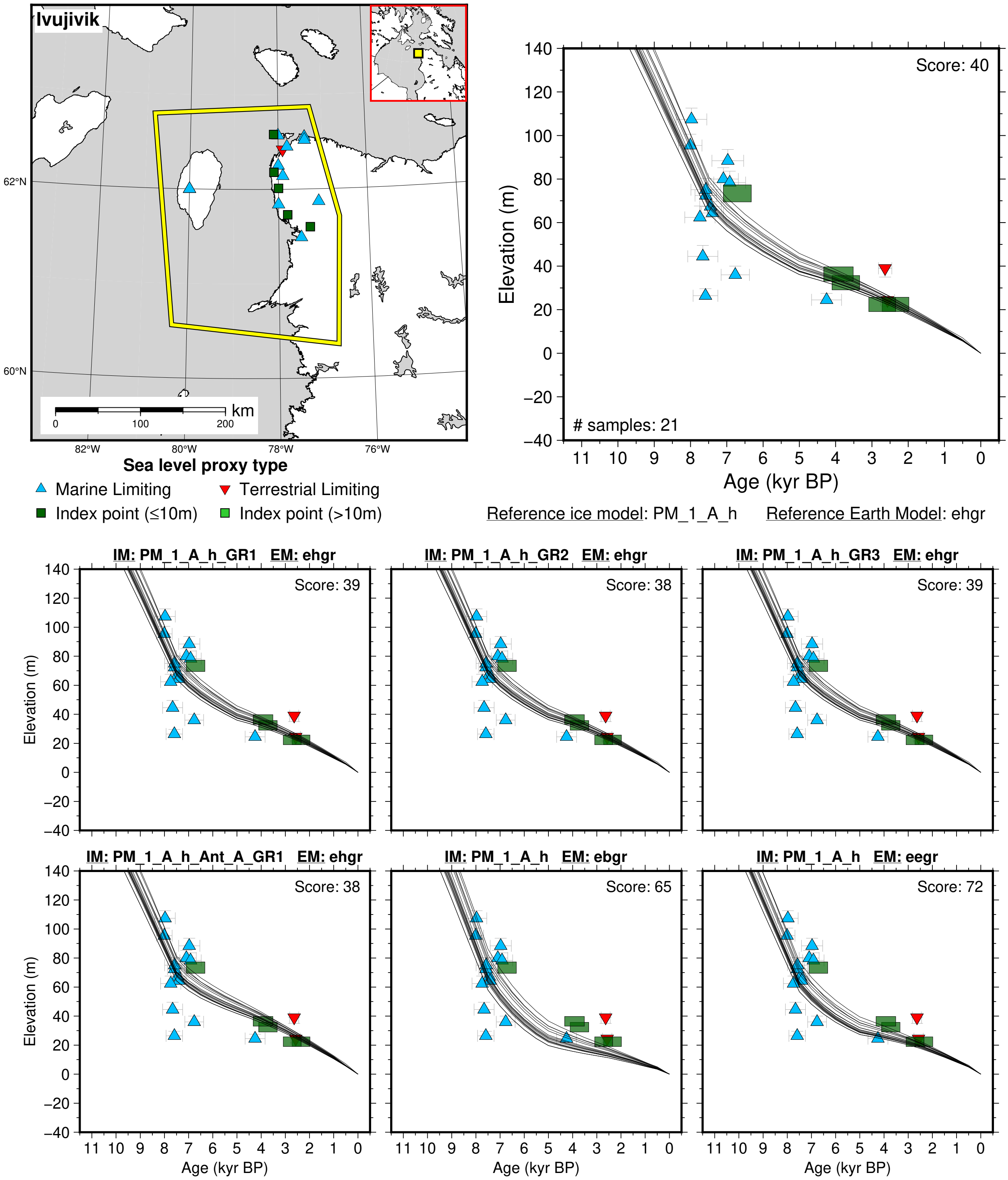

Figure 216: Paleo-sea level and comparison of six models for subregion: Hudson Bay, location: Ivujivik. References: Daigneault (2008); Harington (2003); Martindale et al. (2020); Matthews (1966, 1967); McNeely and Brennan (2005); Vacchi et al. (2018); Wagner (1967).

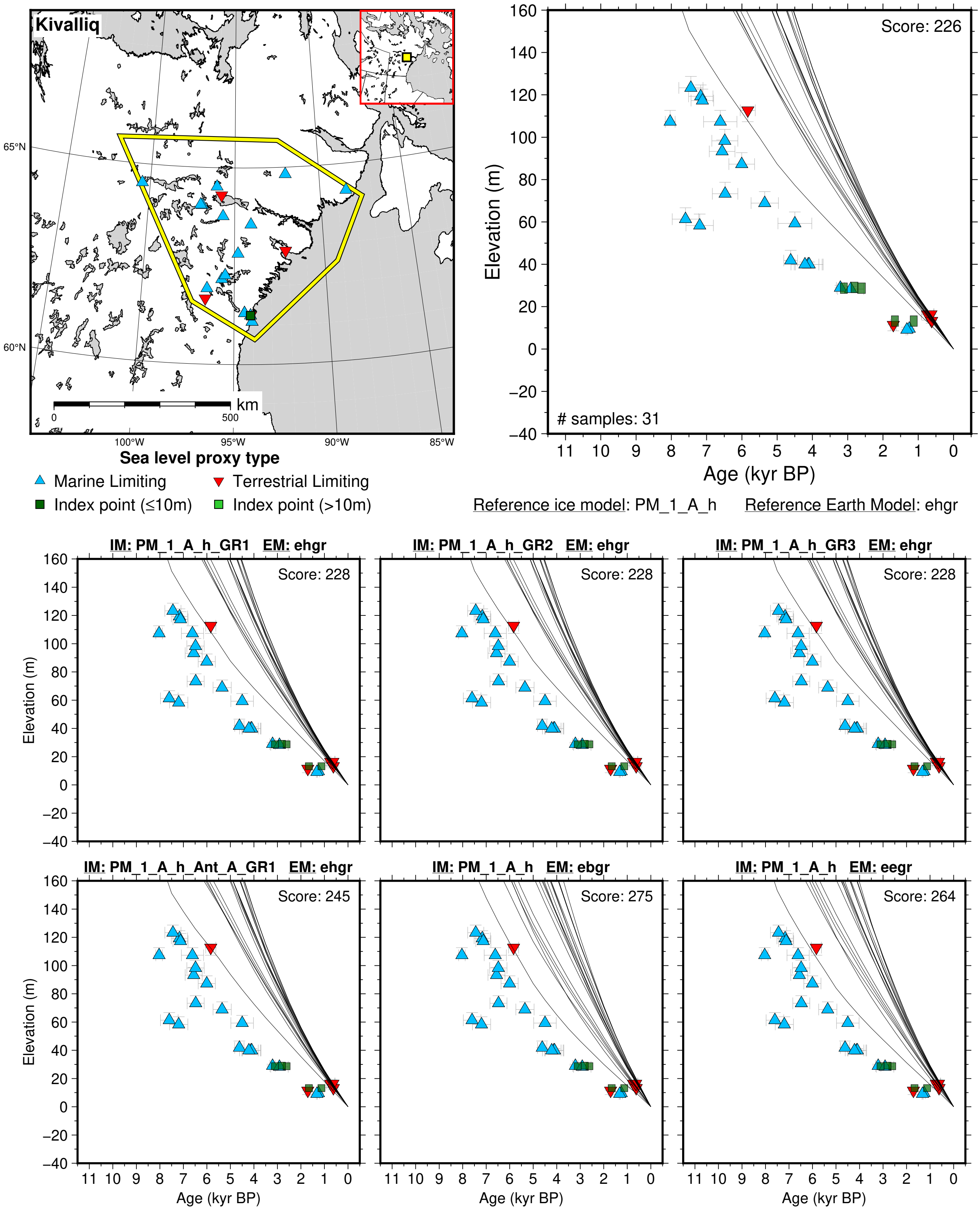

Figure 217: Paleo-sea level and comparison of six models for subregion: Hudson Bay, location: Kivalliq. References: Aylsworth et al. (1981); Blake (1983, 1986, 1988); Dyck and Fyles (1962); Dyck et al. (1966); Lowdon and Blake (1970); Lowdon and Blake (1979); McNeely and Atkinson (1995); Morrison (1989); Ridler (1974); Rutherford et al. (1973, 1979); Simon et al. (2014, 2016); Vacchi et al. (2018); Walton et al. (1961).

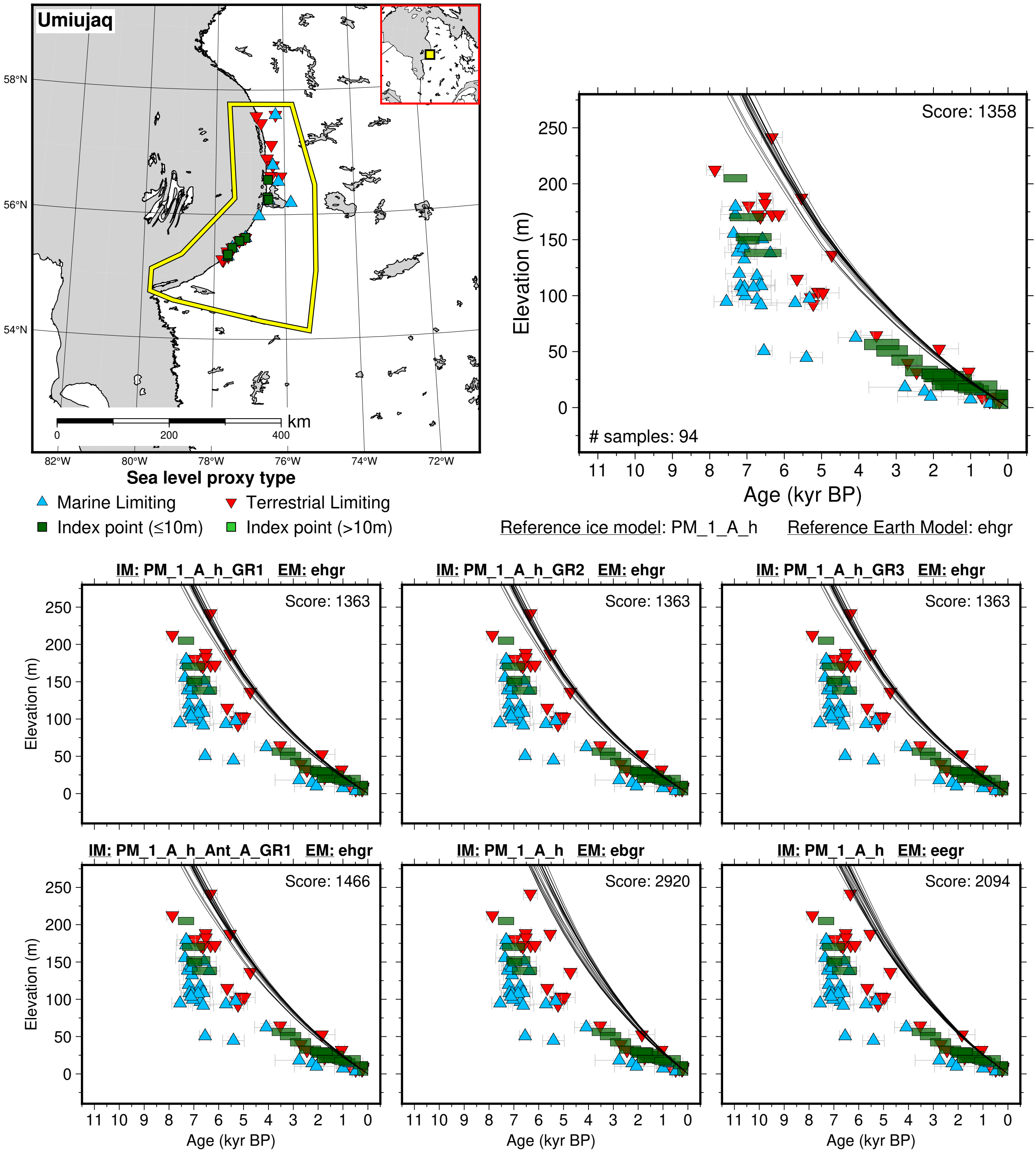

Figure 218: Paleo-sea level and comparison of six models for subregion: Hudson Bay, location: Umiujaq. References: Allard and Seguin (1985); Allard and Tremblay (1983a,b); Cayer (2003); Filion et al. (1991); Gajewski and Garralla (1992); Hillaire-Marcel (1976); Lajeunesse and Allard (2003); Lamarre et al. (2012); Lavoie et al. (2012); Lowdon and Blake (1980); Lowdon et al. (1967); McNeely (2006); Plumet (1974); Saulnier-Talbot and Pienitz (2001); Vacchi et al. (2018); Walcott and Craig (1975).

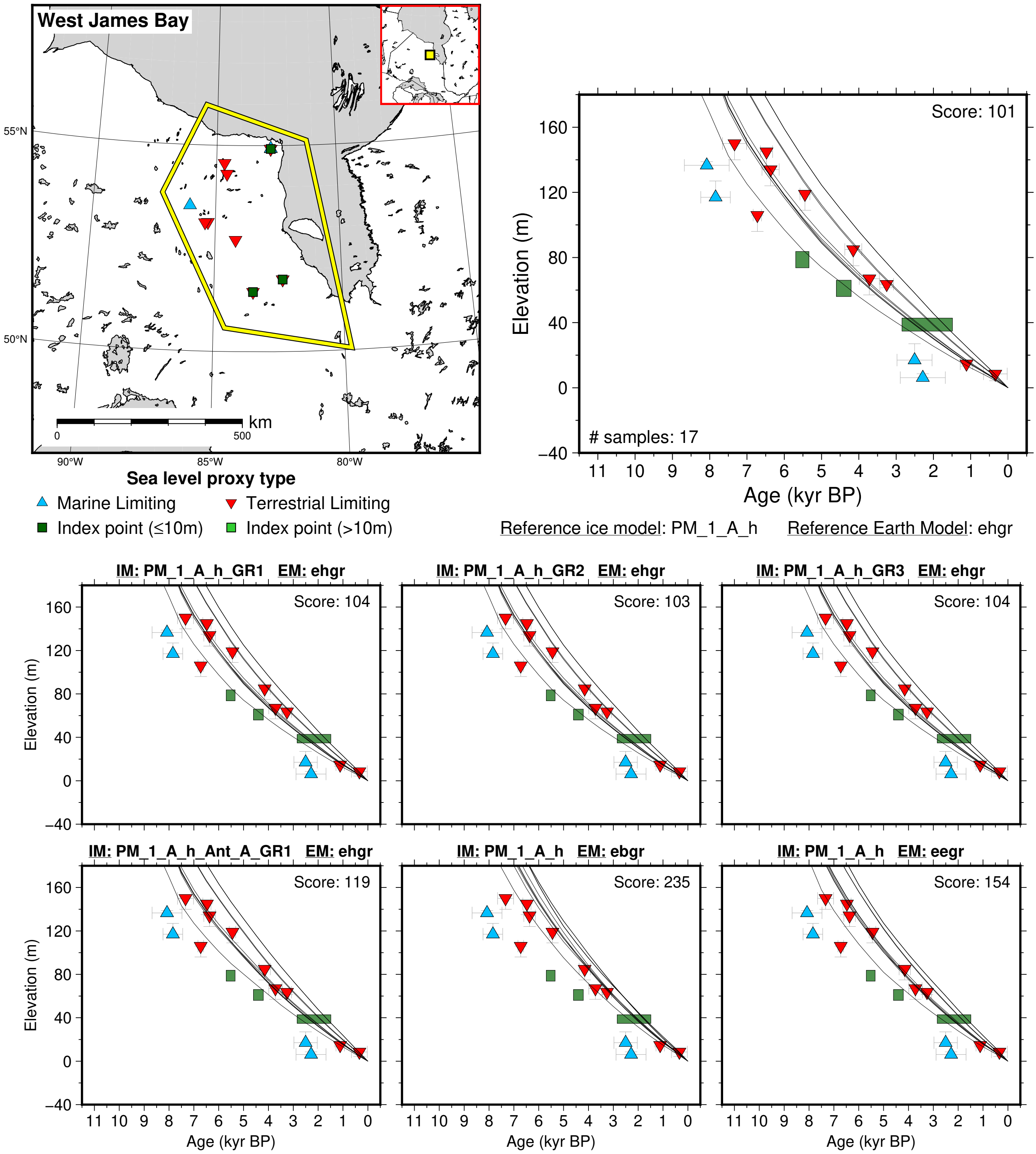

Figure 219: Paleo-sea level and comparison of six models for subregion: Hudson Bay, location: West James Bay. References: Bunbury et al. (2012); Dyck et al. (1965); Dyke and Peltier (2000); Glaser et al. (2004); McAndrews et al. (1982); McNeely and Brennan (2005); Vacchi et al. (2018); Vogel and Waterbolk (1972); Webber et al. (1970).

6.8.2 Hudson Strait

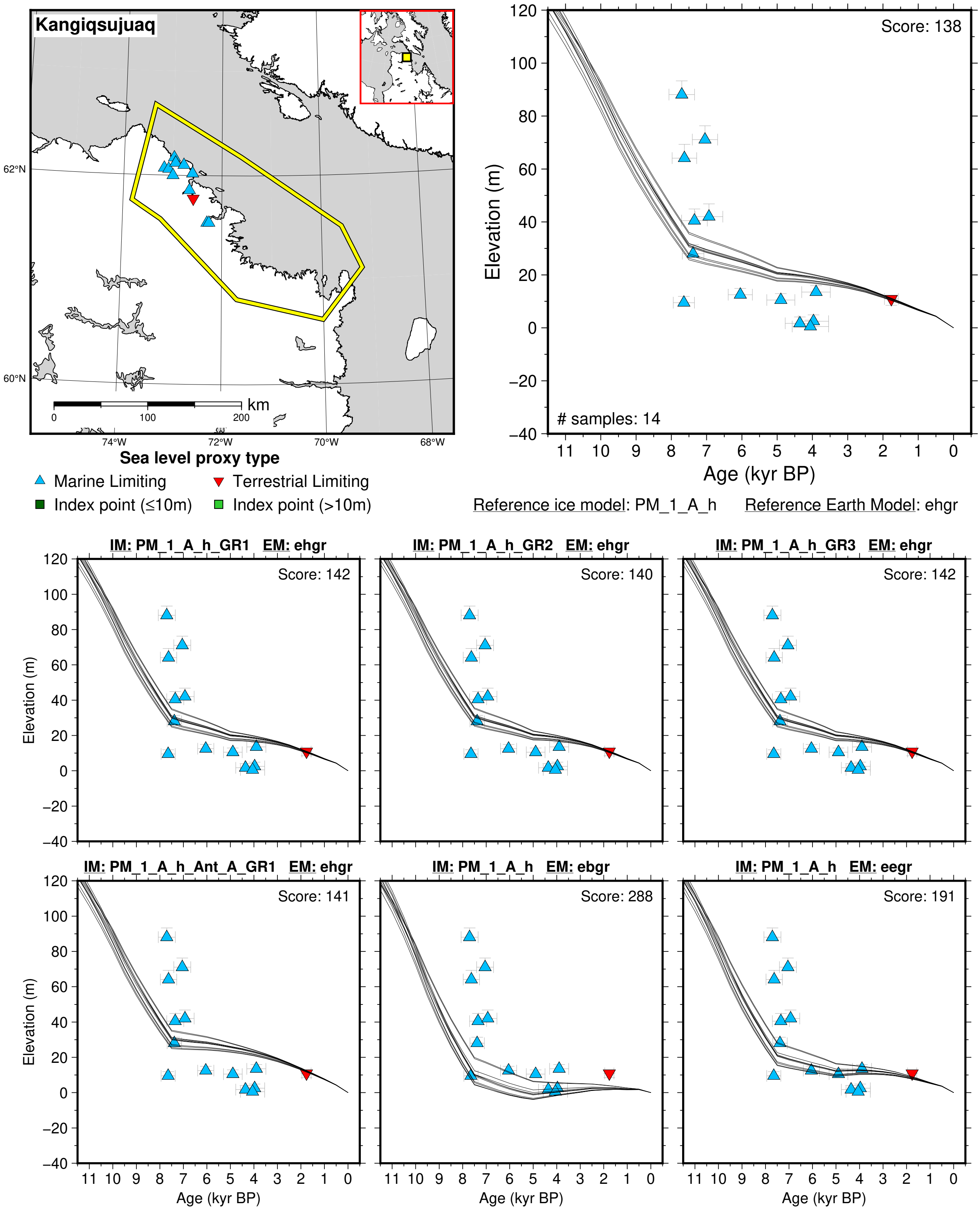

Figure 220: Paleo-sea level and comparison of six models for subregion: Hudson Strait, location: Kangiqsujuaq. References: Daigneault (2008); Dyke et al. (2003); Gray et al. (1993); Gray (2001); Lauriol and Gray (1987); McNeely (2002, 2005); McNeely and Atkinson (1995); Vacchi et al. (2018).

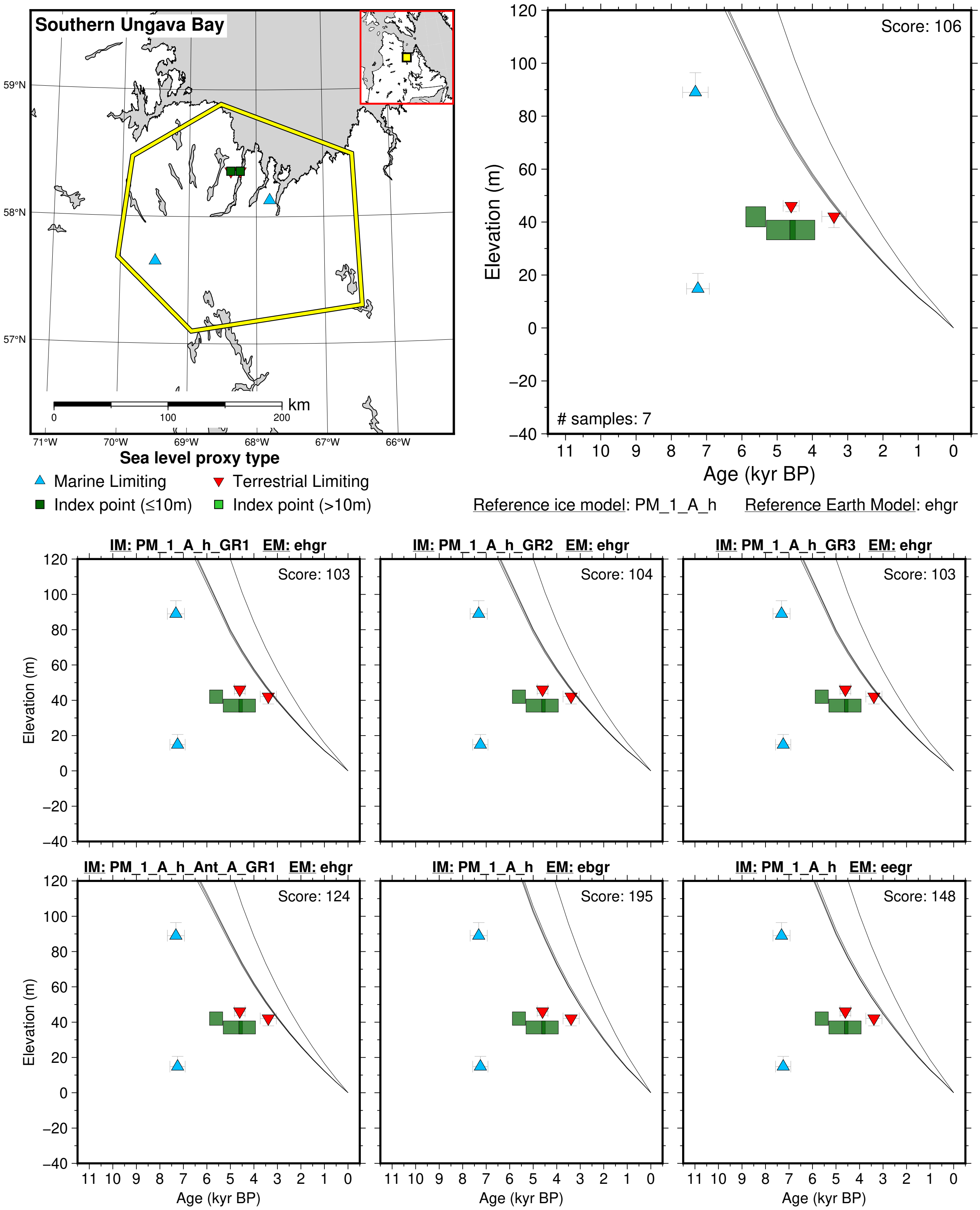

Figure 221: Paleo-sea level and comparison of six models for subregion: Hudson Strait, location: Southern Ungava Bay. References: Gray (2001); Pienitz et al. (1991); Vacchi et al. (2018).

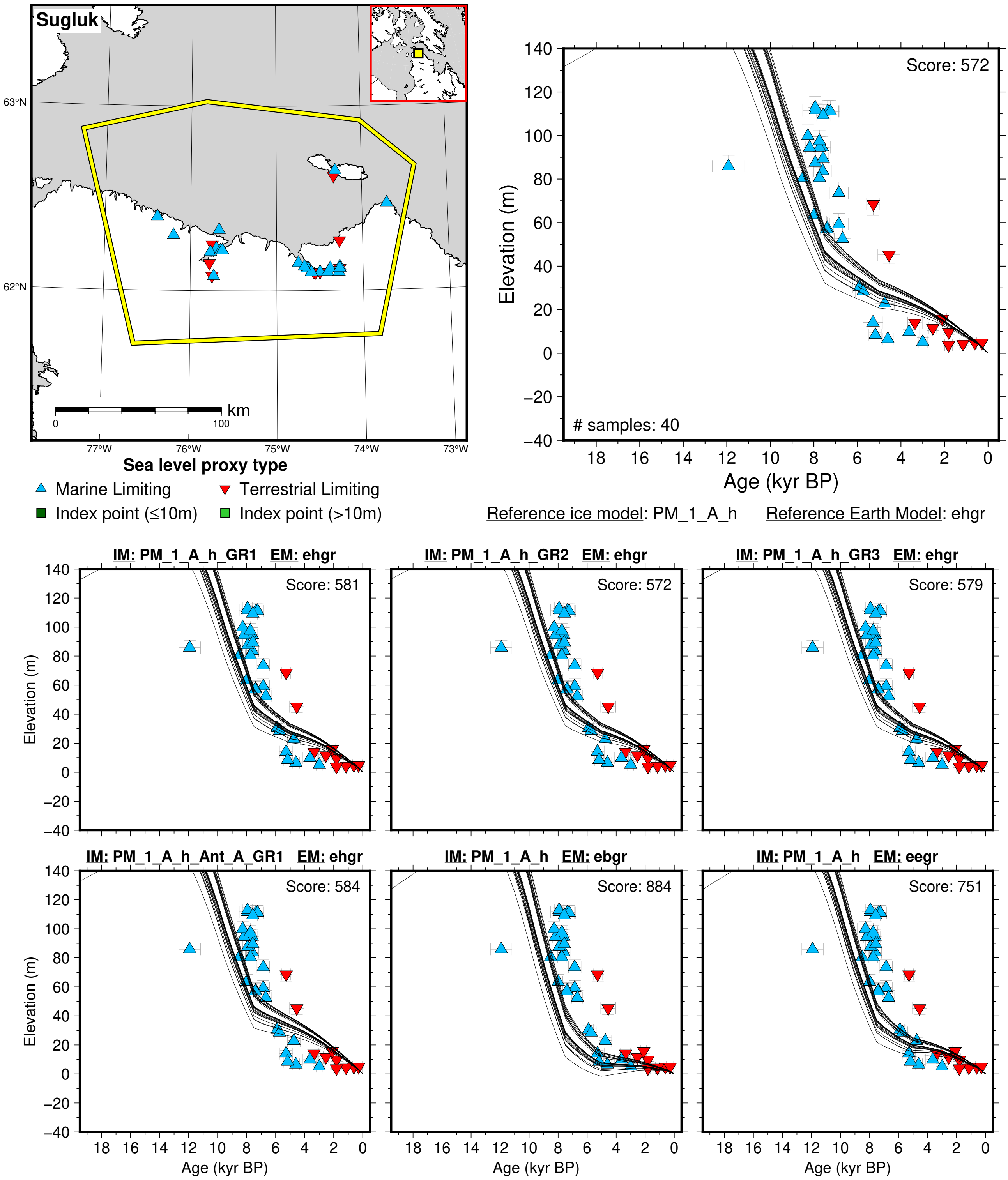

Figure 222: Paleo-sea level and comparison of six models for subregion: Hudson Strait, location: Sugluk. References: Bartley and Matthews (1969); Daigneault (2008); Gray et al. (1993); Gray (2001); Gray and Lauriol (1985); Kasper and Allard (2001); Lauriol and Gray (1997); Lowdon and Blake (1968); Matthews (1966); McNeely and Brennan (2005); McNeely and McCuaig (1991); Ricard (1989); Simon et al. (2016); Vacchi et al. (2018).

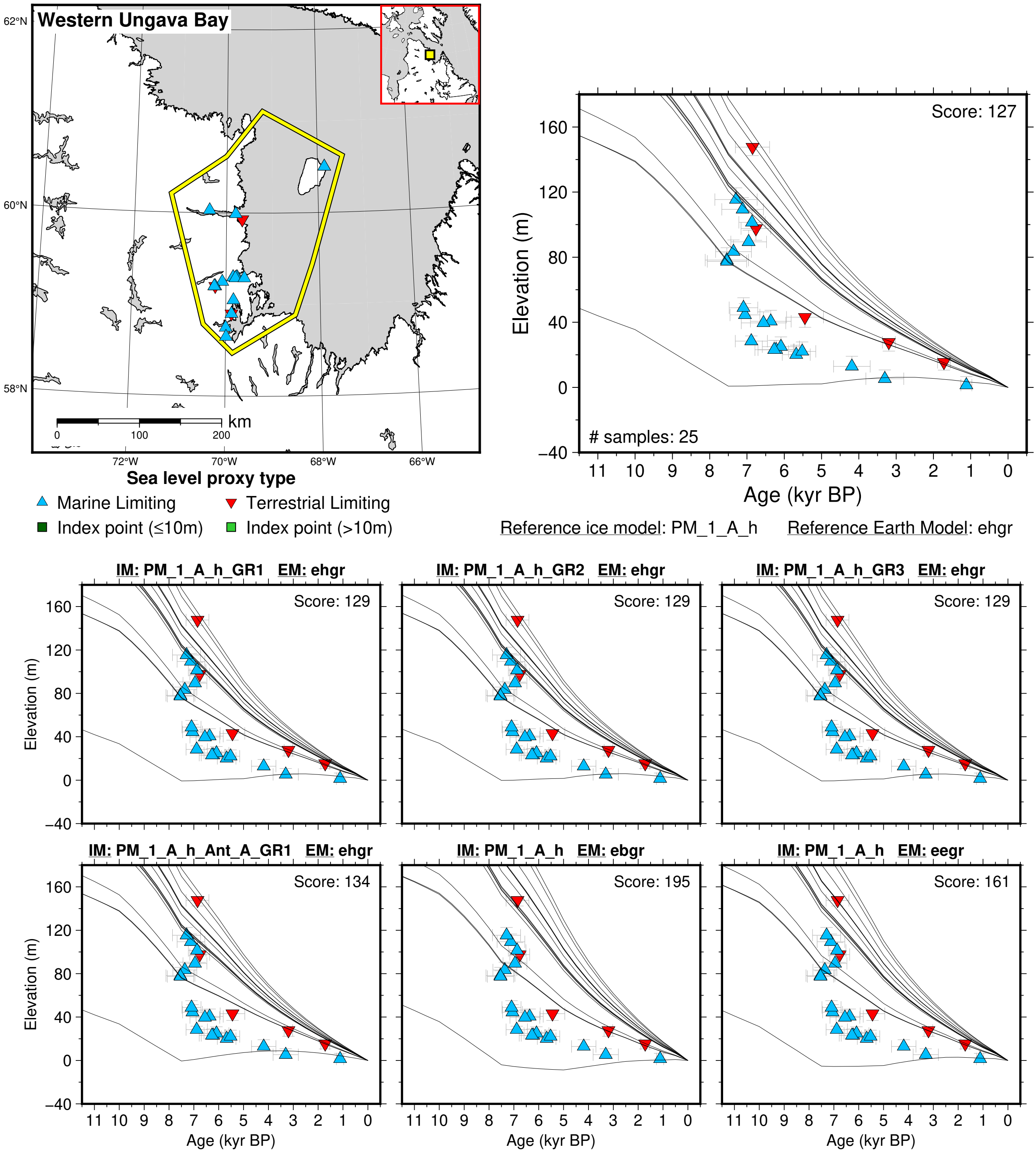

Figure 223: Paleo-sea level and comparison of six models for subregion: Hudson Strait, location: Western Ungava Bay. References: Gray et al. (1980, 1993); Lauriol and Gray (1987); Lauriol et al. (1979); Løken (1978); Simon et al. (2016); Vacchi et al. (2018).

6.9 North America Atlantic

6.9.1 Eastern United States

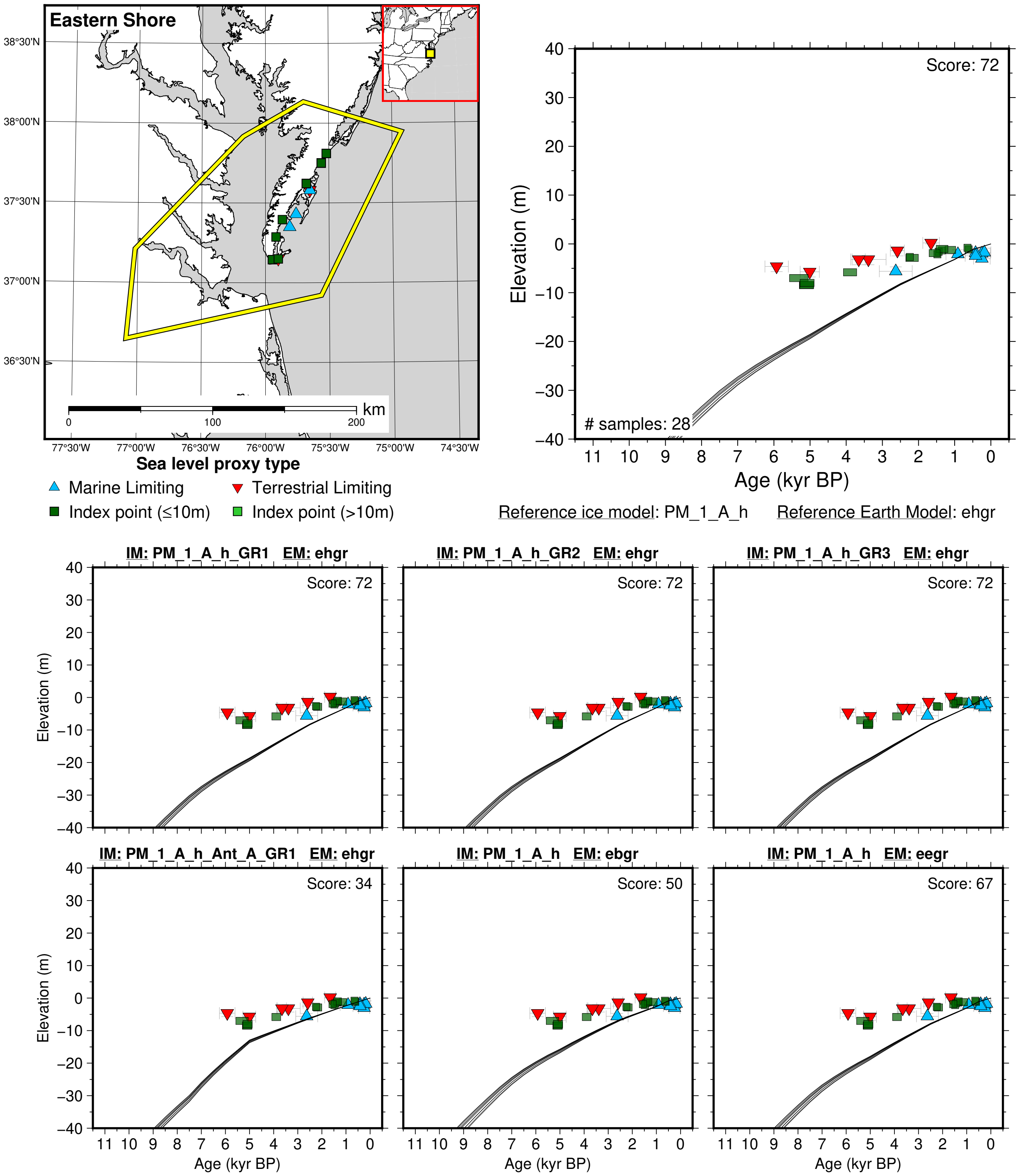

Figure 224: Paleo-sea level and comparison of six models for subregion: Eastern United States, location: Eastern Shore. References: Engelhart and Horton (2012); Engelhart et al. (2009); Finkelstein and Ferland (1987); Newman and Rusnak (1965); van de Plassche (1990).

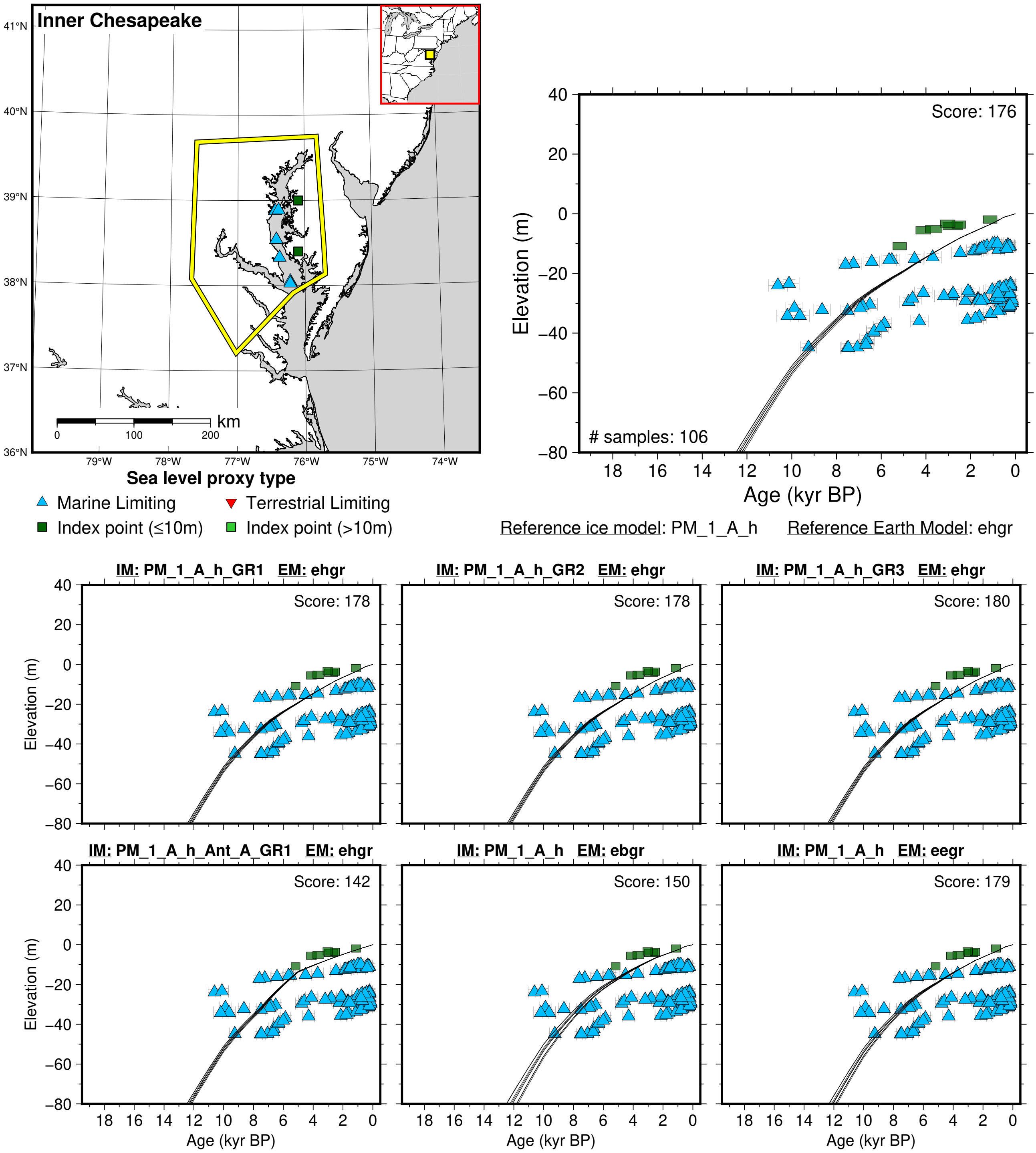

Figure 225: Paleo-sea level and comparison of six models for subregion: Eastern United States, location: Inner Chesapeake. References: Cinquemani et al. (1982); Colman et al. (2002); Engelhart and Horton (2012).

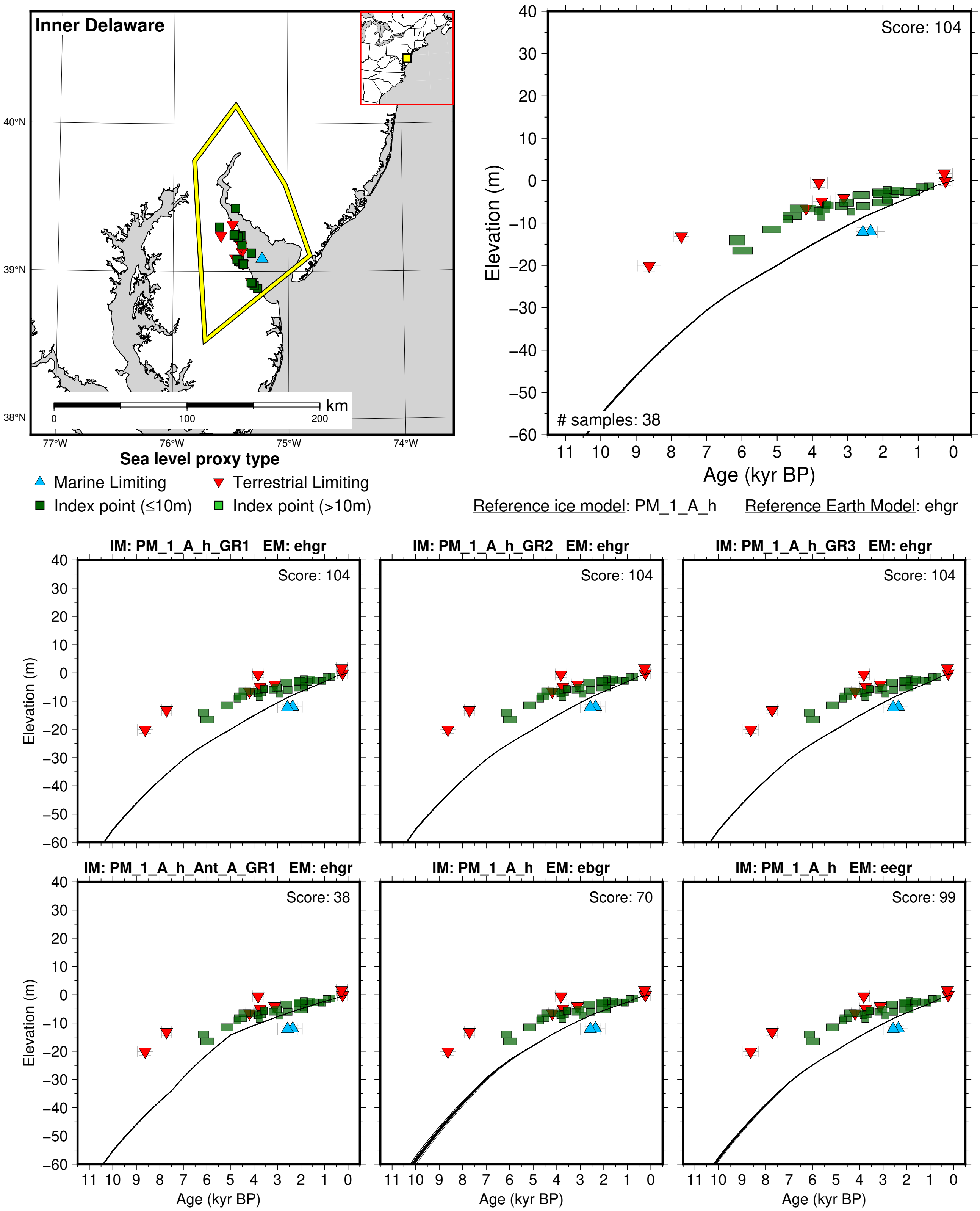

Figure 226: Paleo-sea level and comparison of six models for subregion: Eastern United States, location: Inner Delaware. References: Belknap (1975); Engelhart and Horton (2012); Kraft (1976); Leorri et al. (2006); Marx (1981); Nikitina et al. (2000); Ramsey and Baxter (1996); Rogers and Pizzuto (1994).

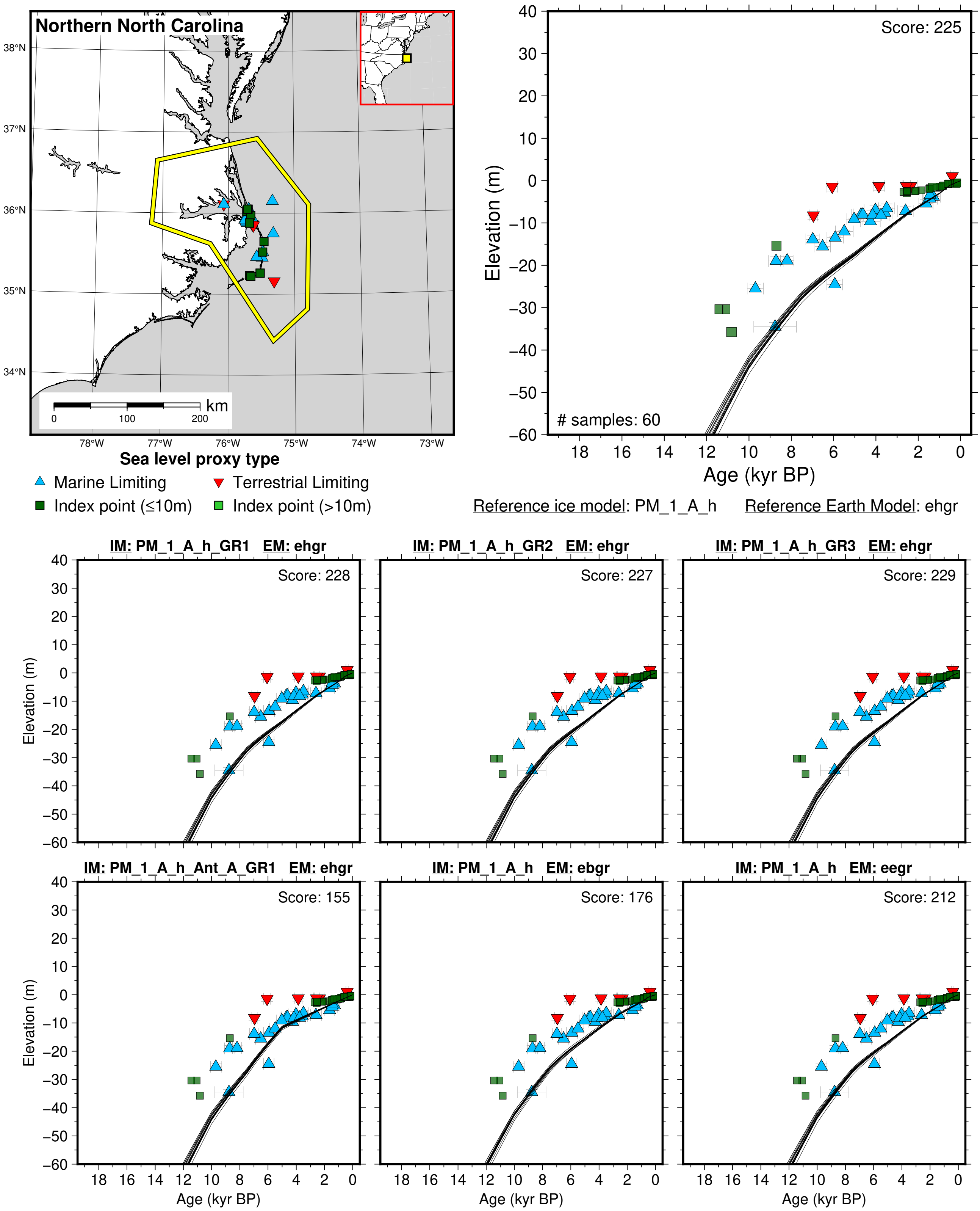

Figure 227: Paleo-sea level and comparison of six models for subregion: Eastern United States, location: Northern North Carolina. References: Emery et al. (1967); Engelhart and Horton (2012); Horton et al. (2009); Kemp (2009); Mallinson et al. (2005); Sears (1973); Stanton (2008).

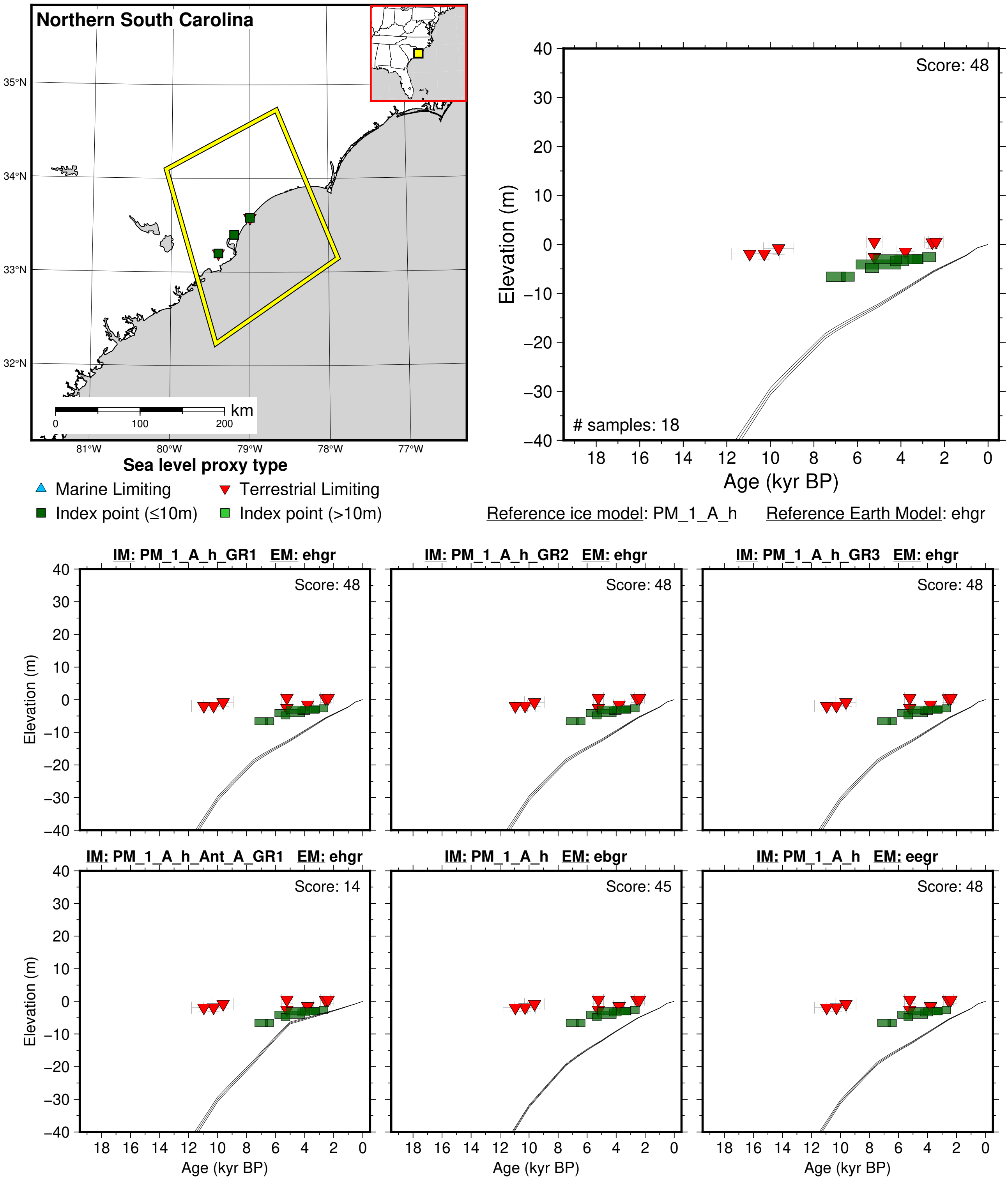

Figure 228: Paleo-sea level and comparison of six models for subregion: Eastern United States, location: Northern South Carolina. References: Cinquemani et al. (1982); Engelhart and Horton (2012); Gayes et al. (1992).

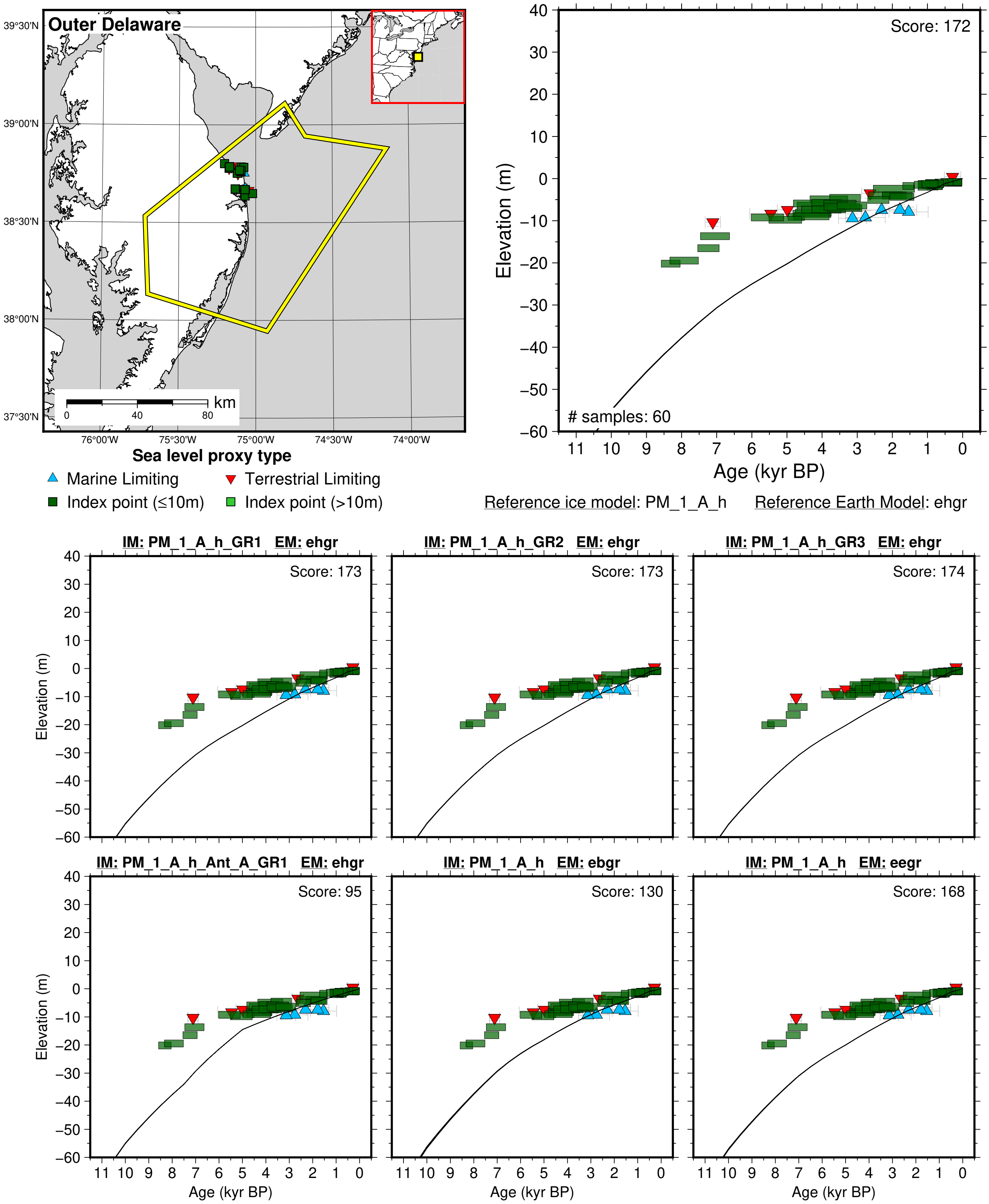

Figure 229: Paleo-sea level and comparison of six models for subregion: Eastern United States, location: Outer Delaware. References: Belknap (1975); Engelhart and Horton (2012); Fletcher et al. (1993); Nikitina et al. (2000); Ramsey and Baxter (1996).

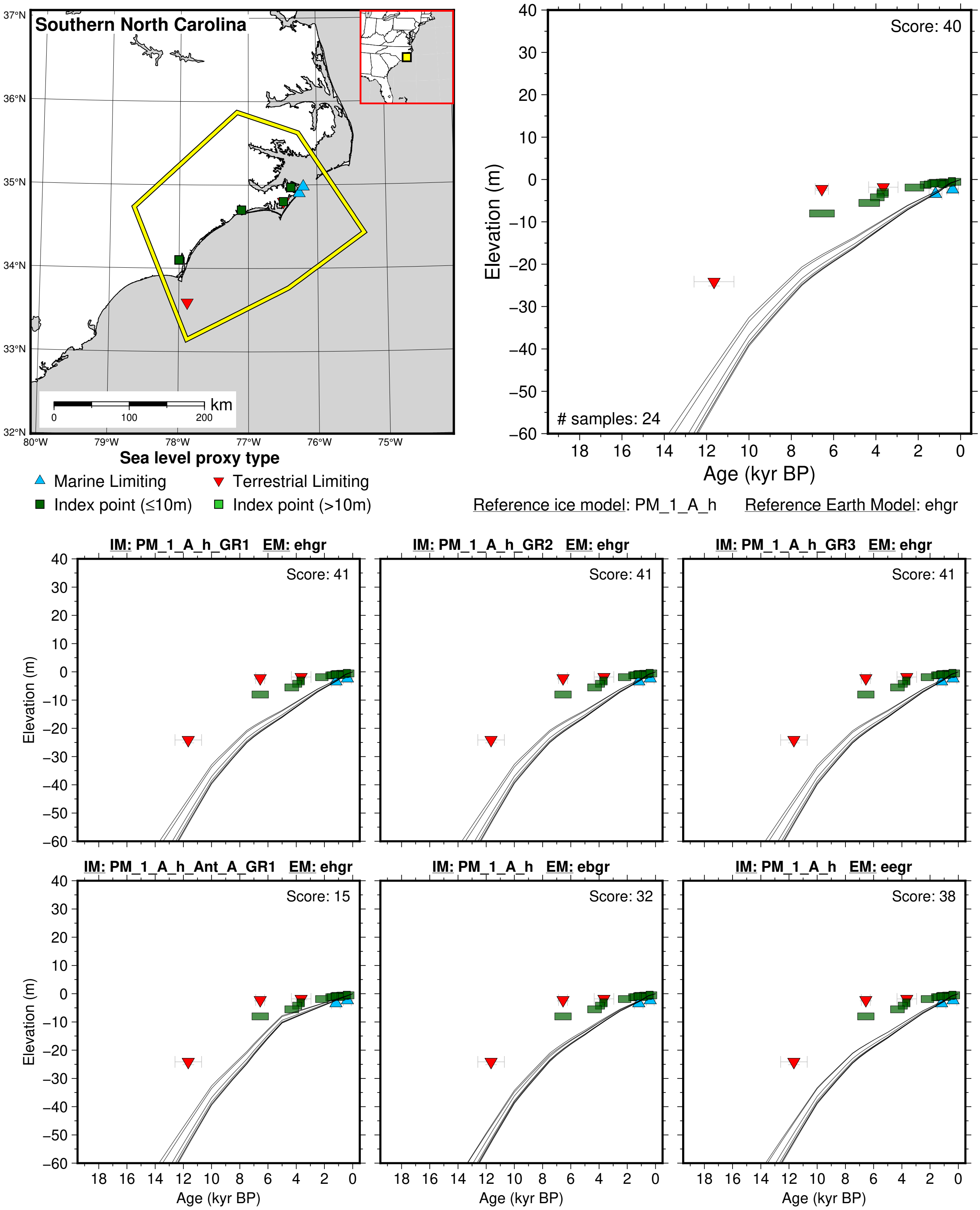

Figure 230: Paleo-sea level and comparison of six models for subregion: Eastern United States, location: Southern North Carolina. References: Cinquemani et al. (1982); Culver et al. (2007); Engelhart and Horton (2012); Field et al. (1979); Horton et al. (2009); Kemp (2009); Spaur and Snyder (1999).

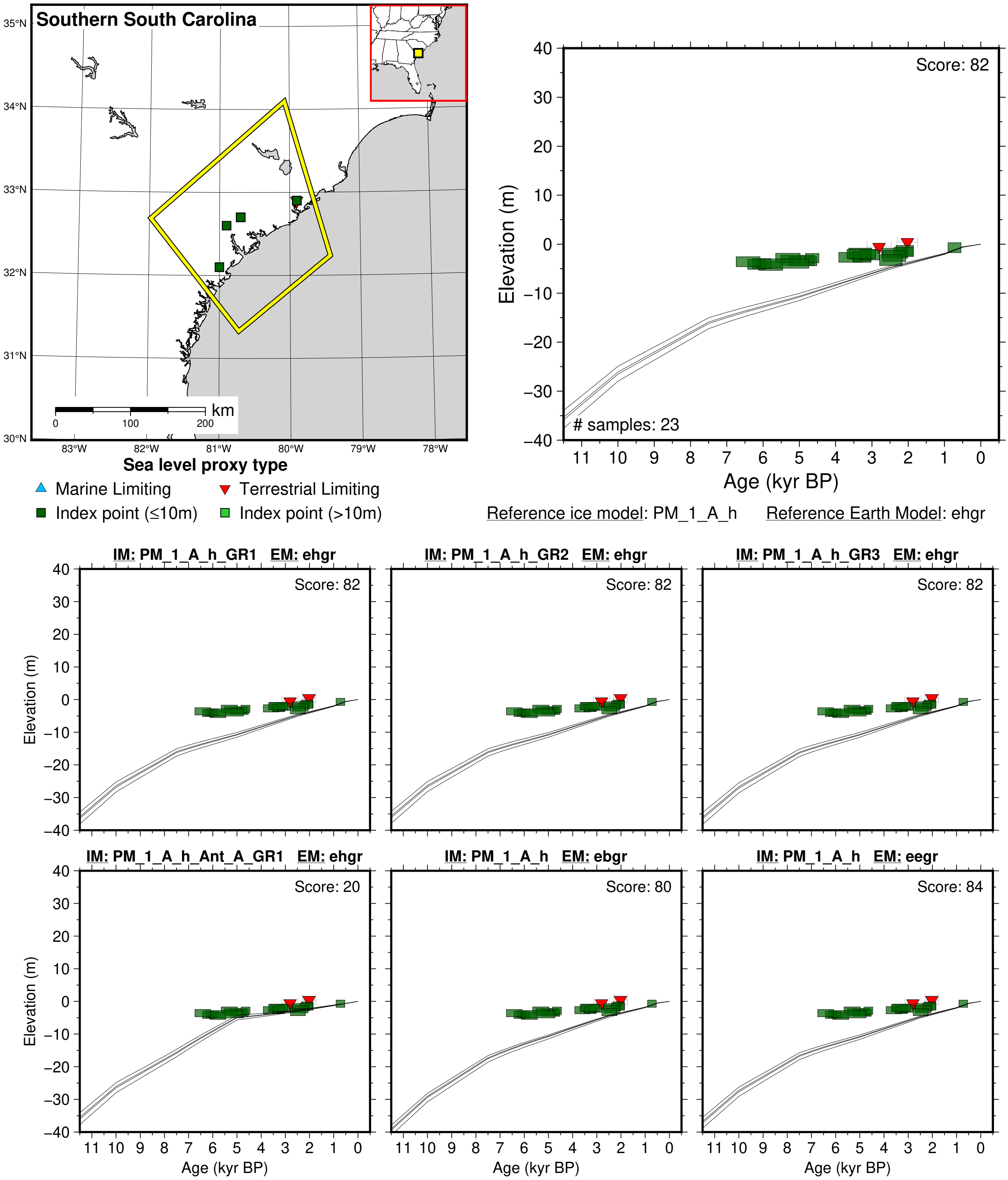

Figure 231: Paleo-sea level and comparison of six models for subregion: Eastern United States, location: Southern South Carolina. References: Cinquemani et al. (1982); Engelhart and Horton (2012).

6.9.2 Labrador

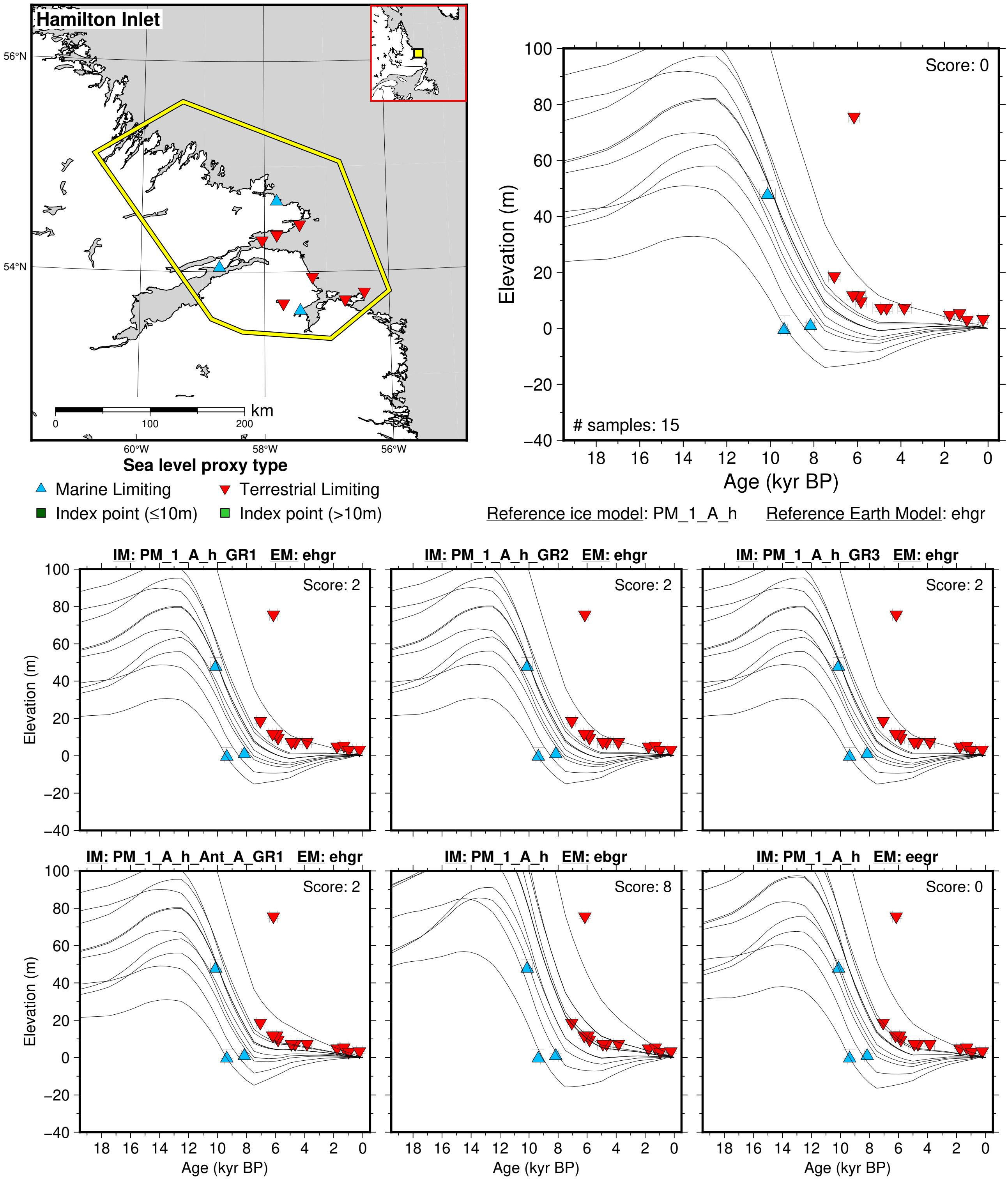

Figure 232: Paleo-sea level and comparison of six models for subregion: Labrador, location: Hamilton Inlet. References: Fitzhugh (1972, 1975); Lowdon and Blake (1975); Martindale et al. (2020); McNeely and Brennan (2005); Vacchi et al. (2018).

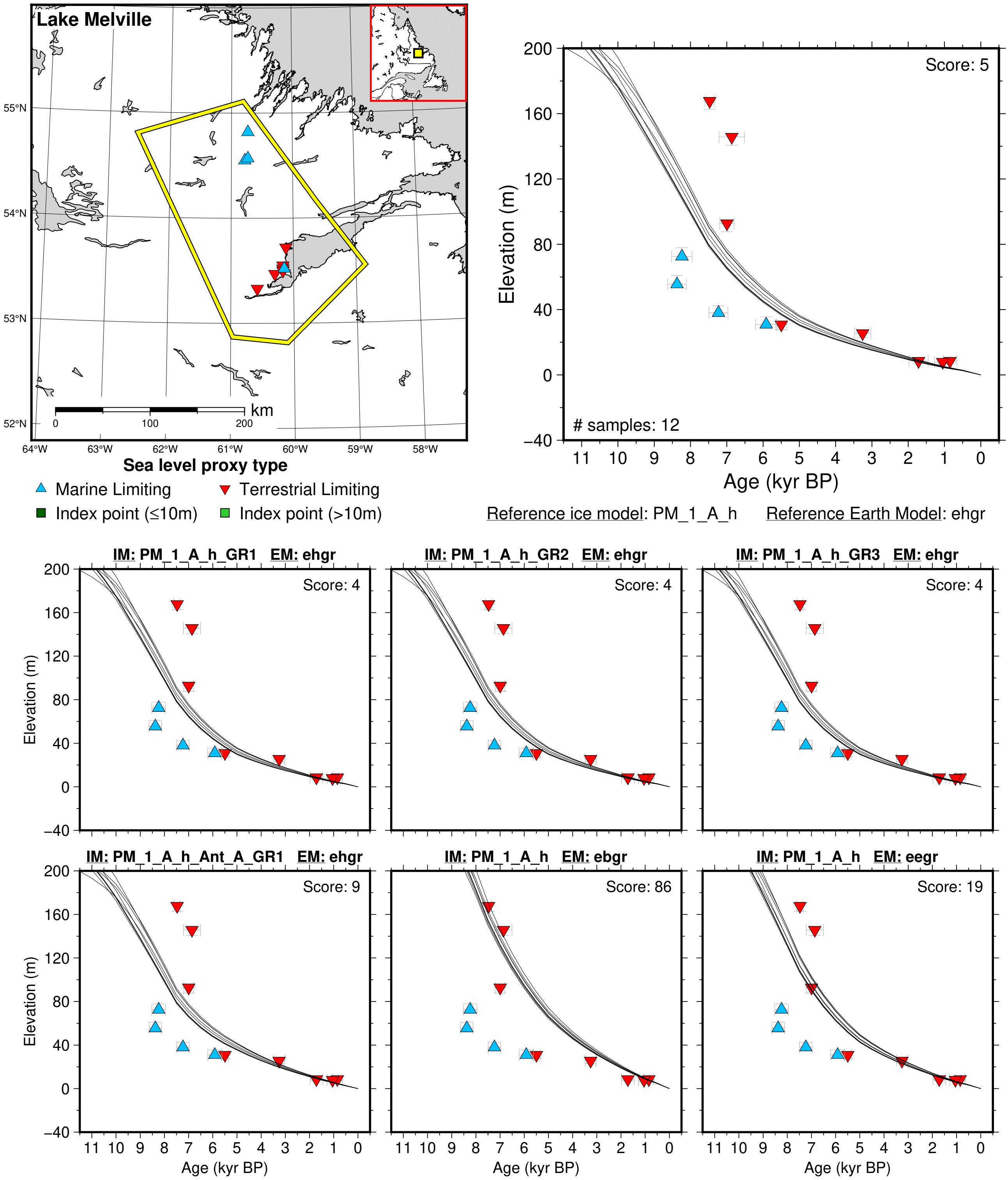

Figure 233: Paleo-sea level and comparison of six models for subregion: Labrador, location: Lake Melville. References: Awadallah and Batterson (1990); Batterson (1996); Jordan (1975); King (1985); Liverman (1997); Lowdon and Blake (1975); Martindale et al. (2020); McNeely and Brennan (2005); Vacchi et al. (2018).

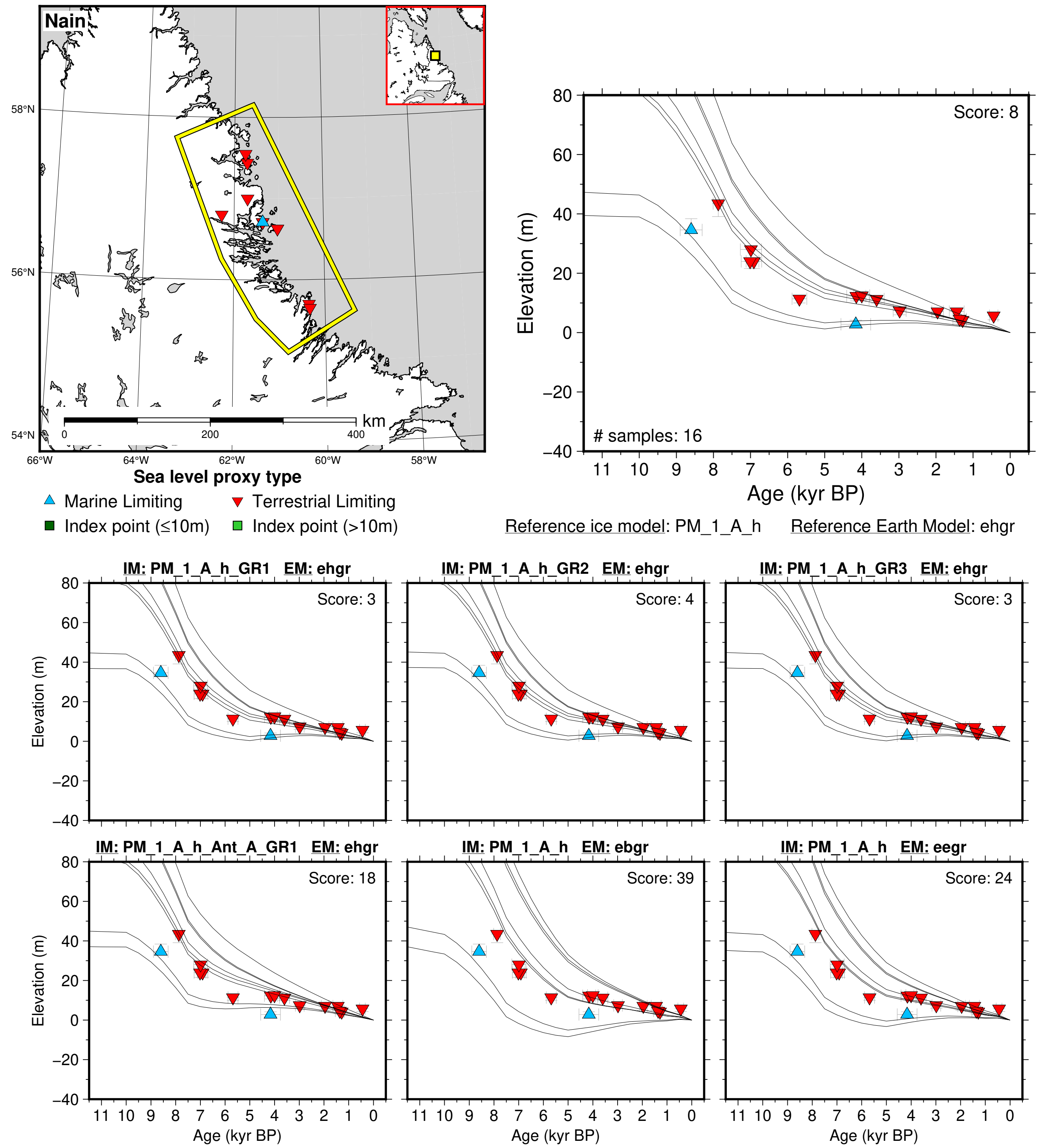

Figure 234: Paleo-sea level and comparison of six models for subregion: Labrador, location: Nain. References: Clark and Fitzhugh (1990); Martindale et al. (2020); Vacchi et al. (2018).

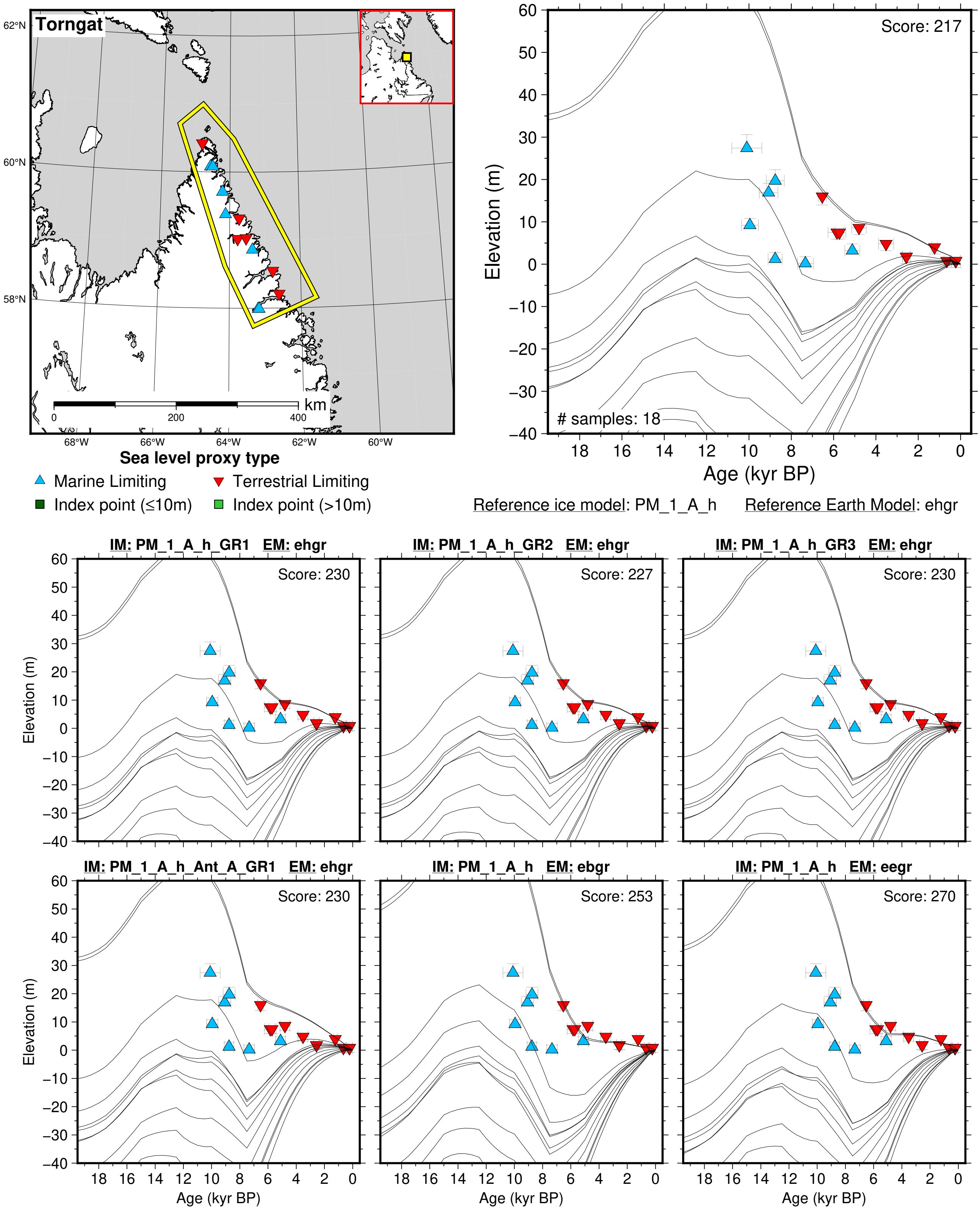

Figure 235: Paleo-sea level and comparison of six models for subregion: Labrador, location: Torngat. References: Dyke et al. (2003); Evans and Rogerson (1988); Lowdon and Blake (1975); Martindale et al. (2020); McNeely and Brennan (2005); Savoie and Gangloff (1980); Vacchi et al. (2018).

6.9.3 Maritimes

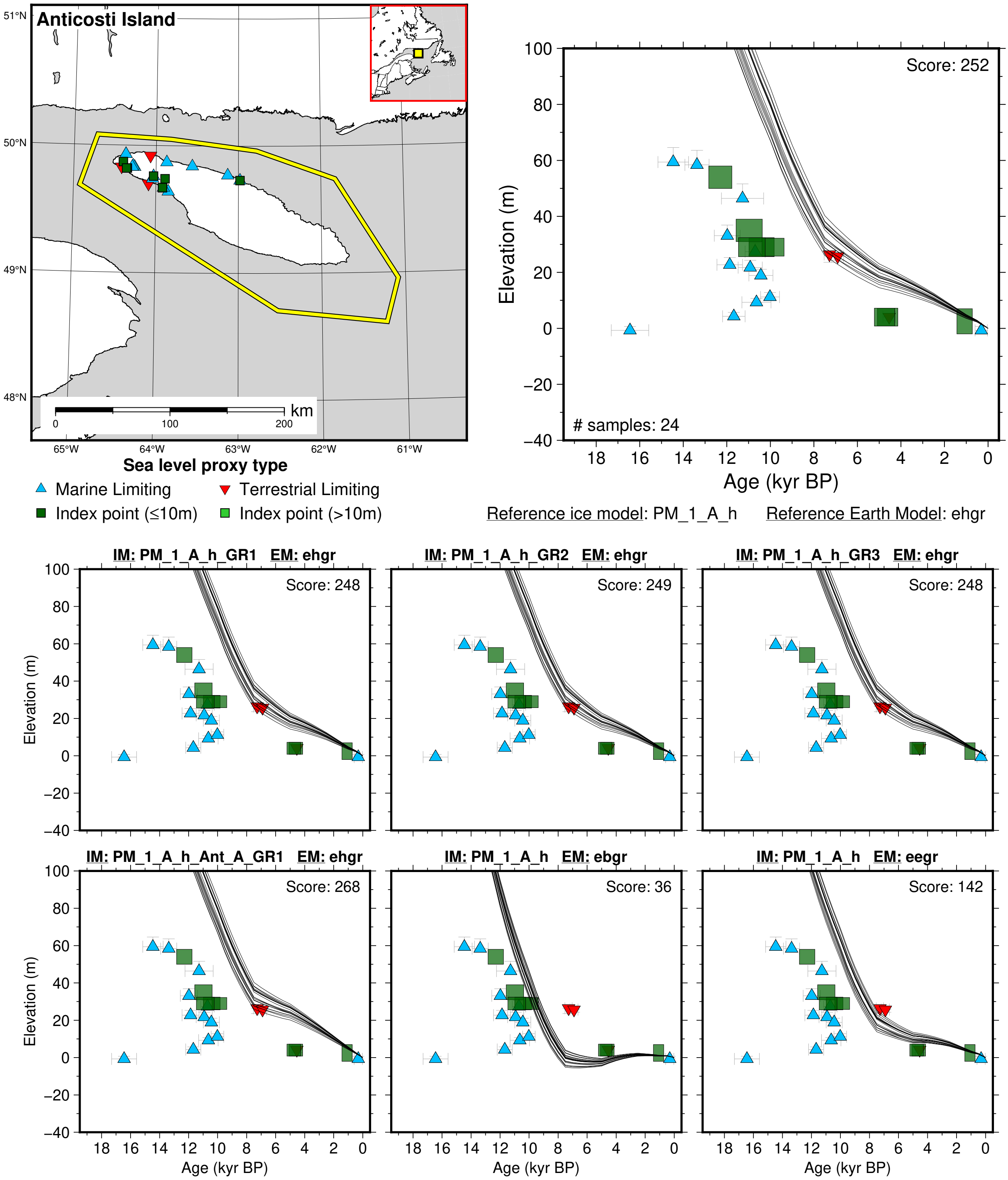

Figure 236: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Anticosti Island. References: Dubois et al. (1988); Lavoie and Filion (2001); Painchaud et al. (1984); Vacchi et al. (2018).

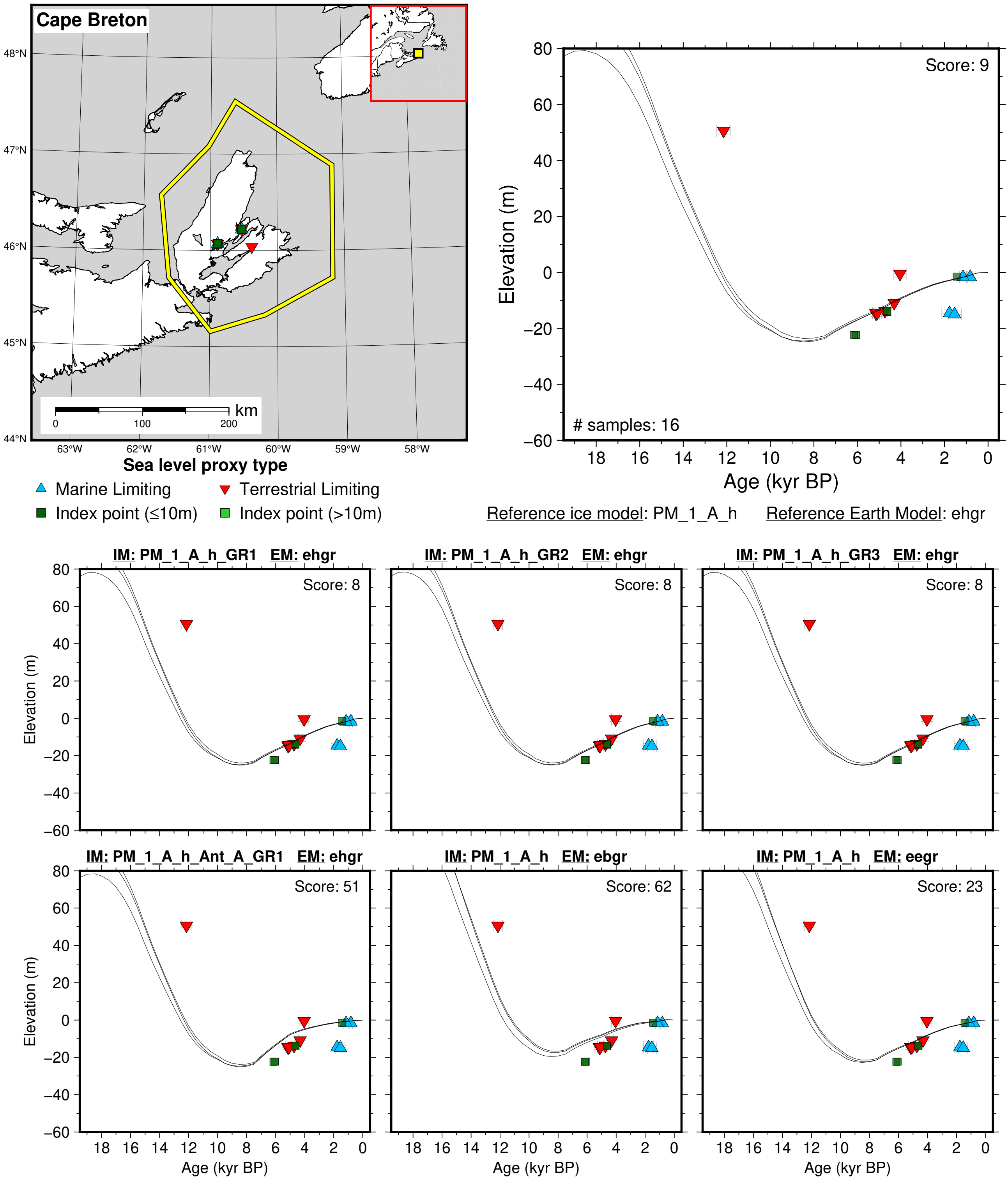

Figure 237: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Cape Breton. References: Blake and Lowdon (1976); Miller and Livingstone (1993); Shaw et al. (2009); Vacchi et al. (2018).

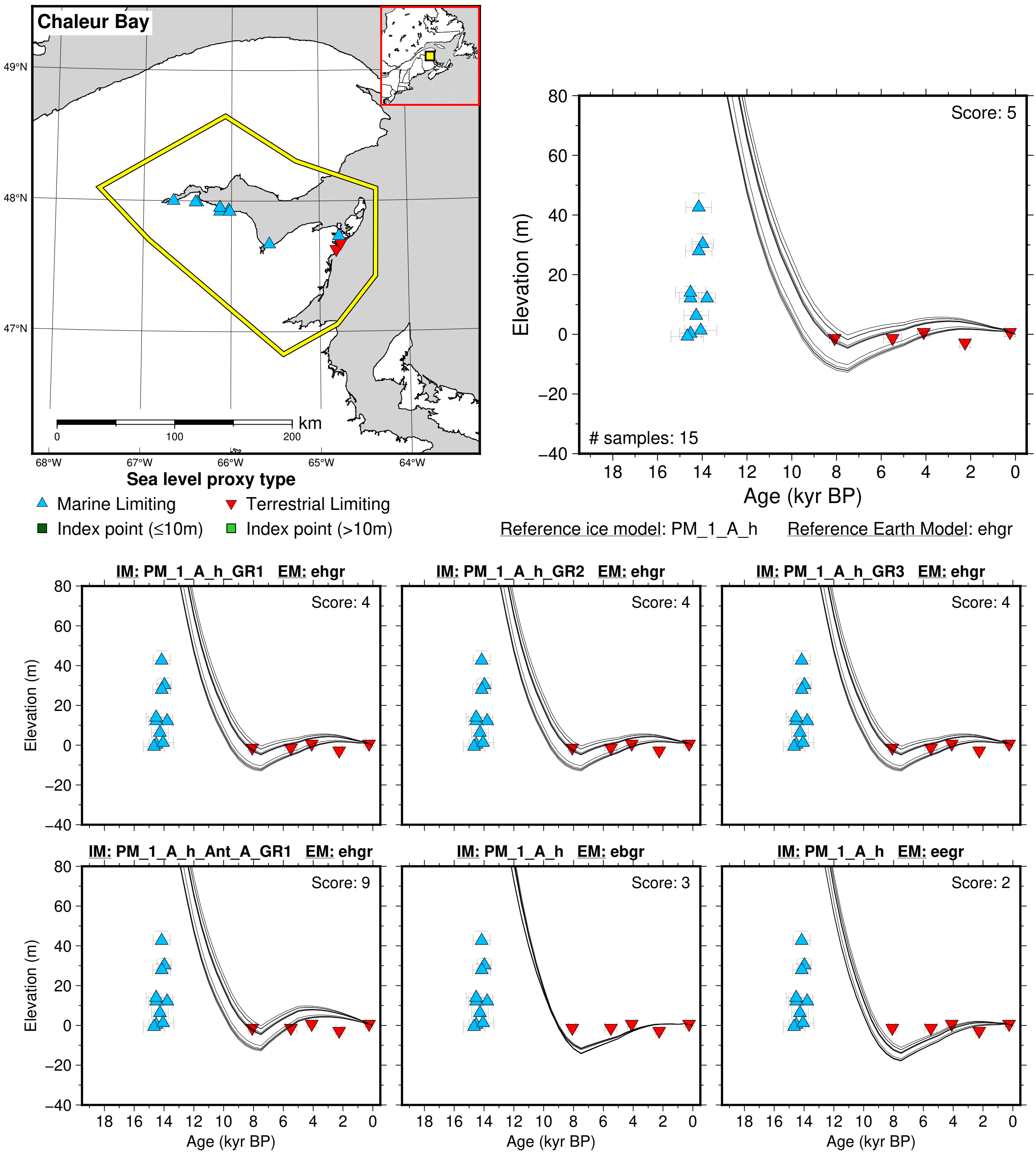

Figure 238: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Chaleur Bay. References: McNeely and Brennan (2005); Rampton et al. (1984); Vacchi et al. (2018).

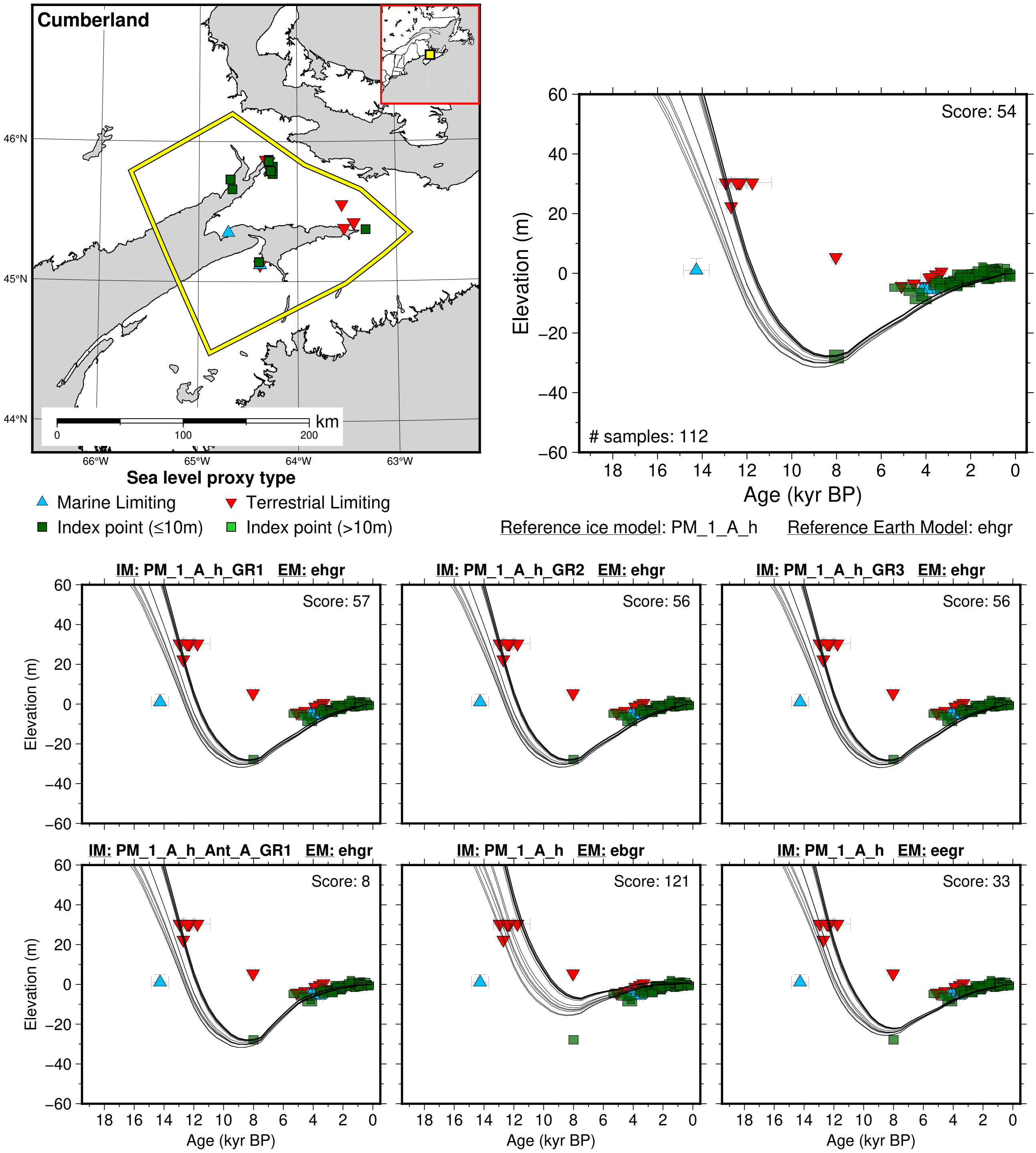

Figure 239: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Cumberland. References: Dalrymple and Zaitlin (1994); Scott and Greenberg (1983); Shaw et al. (2010); Stea and Wightman (1987); Stuckenrath et al. (1966); Vacchi et al. (2018).

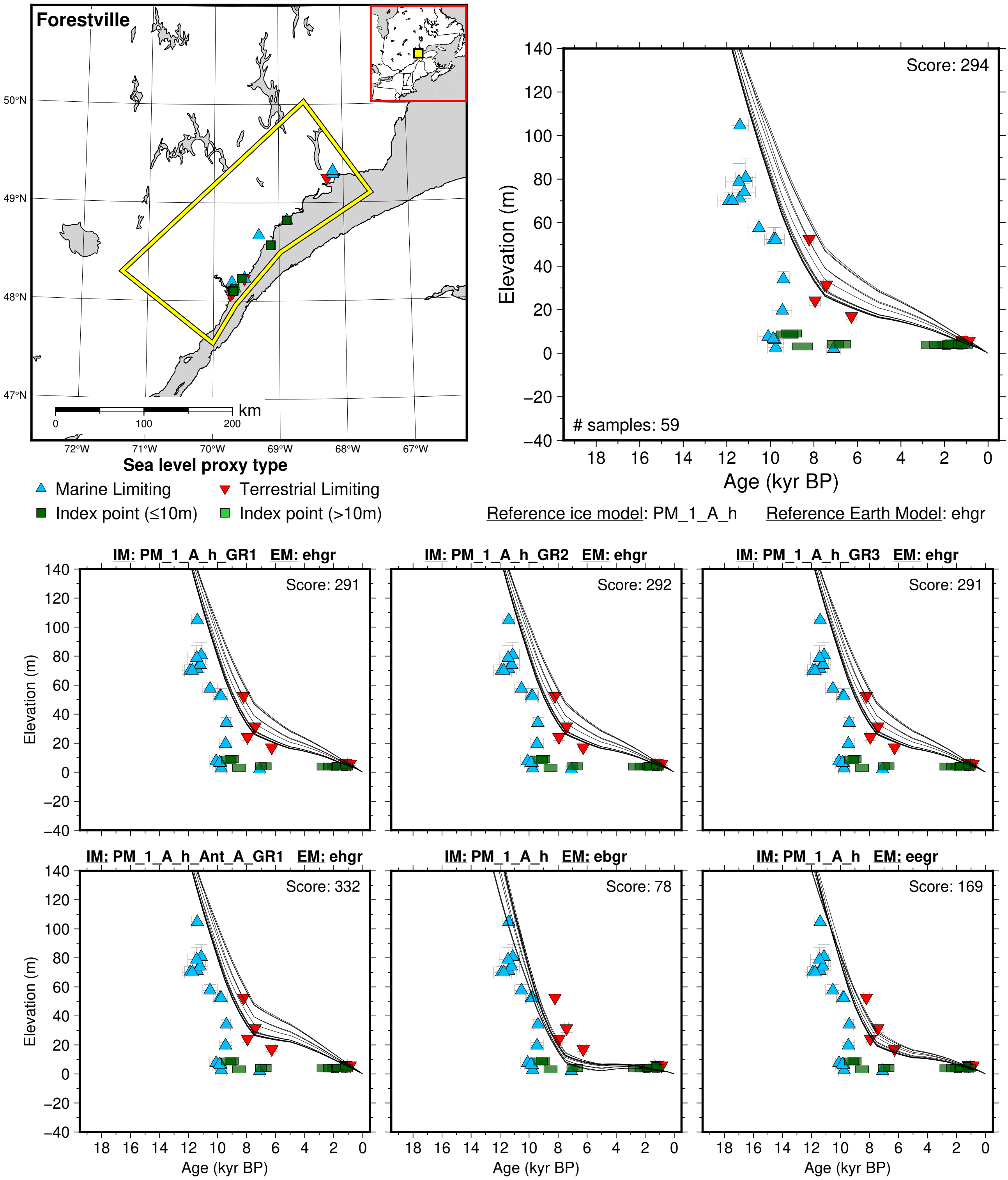

Figure 240: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Forestville. References: Dietrich et al. (2017); Dionne (1996, 2001b); Dionne and Occhietti (1996); Dionne et al. (2004); Dubois et al. (1988); Martindale et al. (2020); Vacchi et al. (2018).

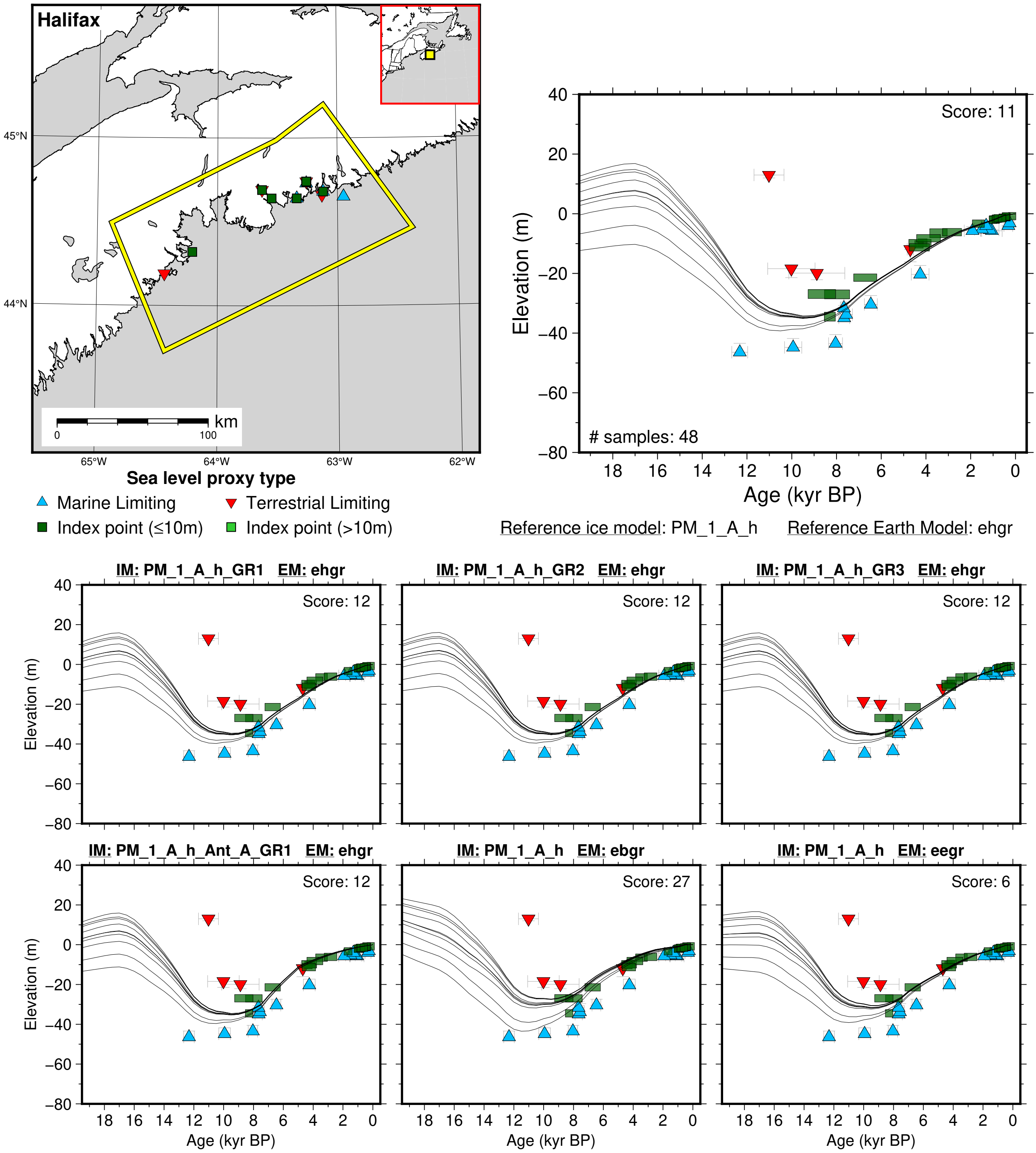

Figure 241: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Halifax. References: Blake (1988); Edgecombe et al. (1999); Gehrels et al. (2004, 2005); Miller et al. (1982); Scott and Medioli (1982); Scott et al. (1995); Shaw et al. (1993); Vacchi et al. (2018).

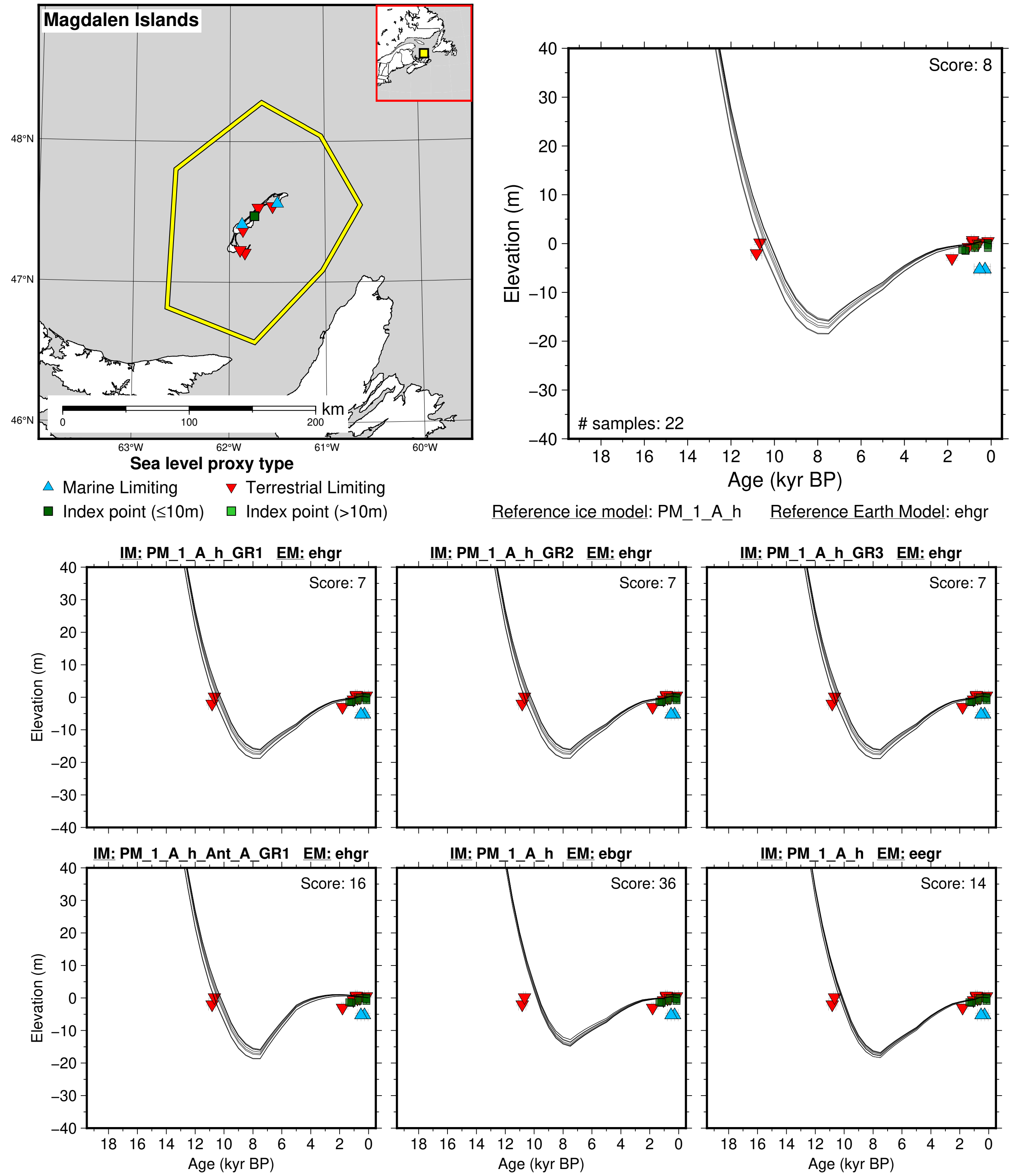

Figure 242: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Magdalen Islands. References: Barnett et al. (2017); Dredge et al. (1992); Rémillard et al. (2016, 2017); Vacchi et al. (2018).

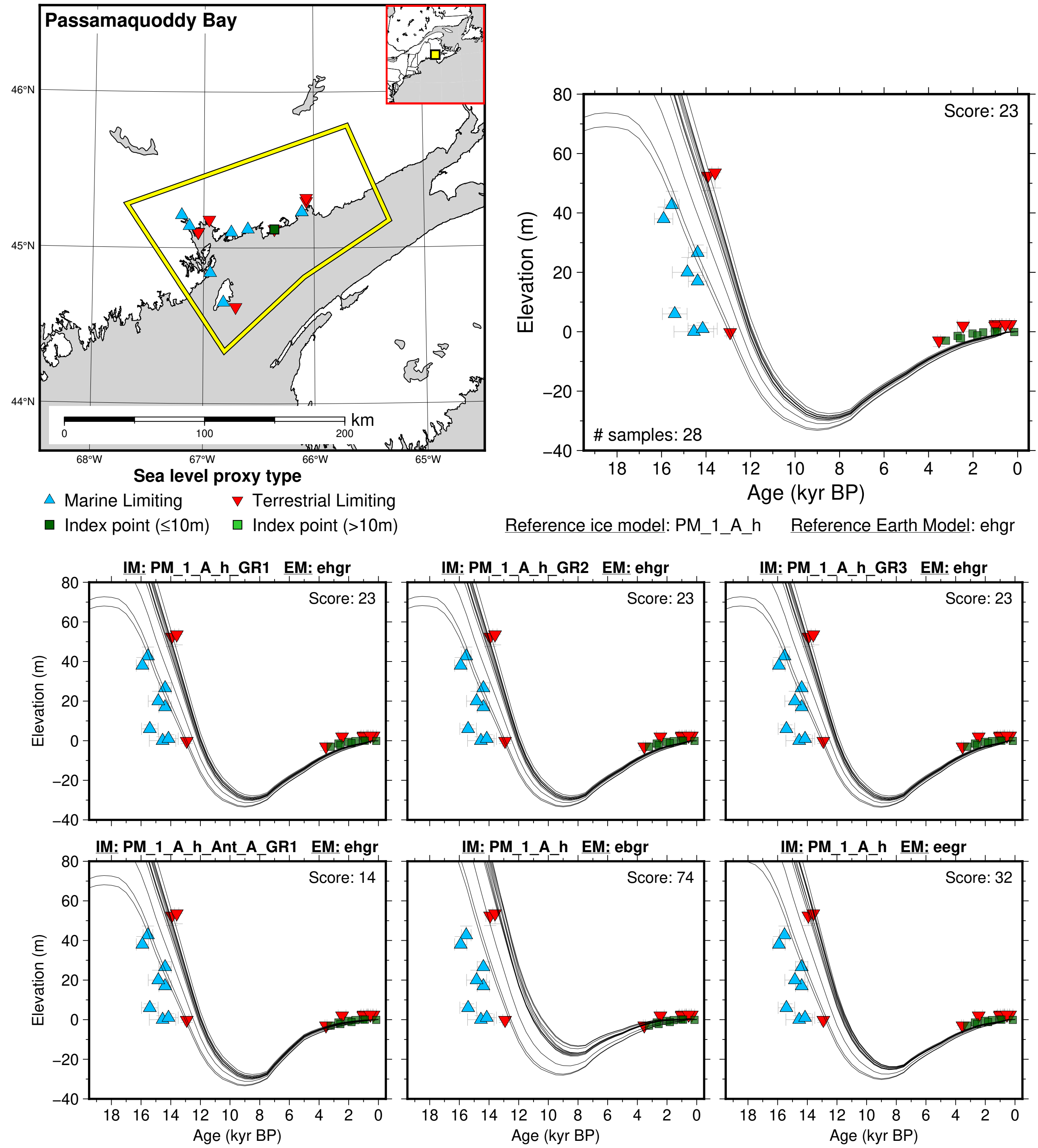

Figure 243: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Passamaquoddy Bay. References: Blake (1984); Gehrels et al. (2004); Martindale et al. (2020); McNeely (2005); Miller (1990); Nicks (1991); Rampton et al. (1984); Seaman (2004); Stea and Mott (1998); Vacchi et al. (2018).

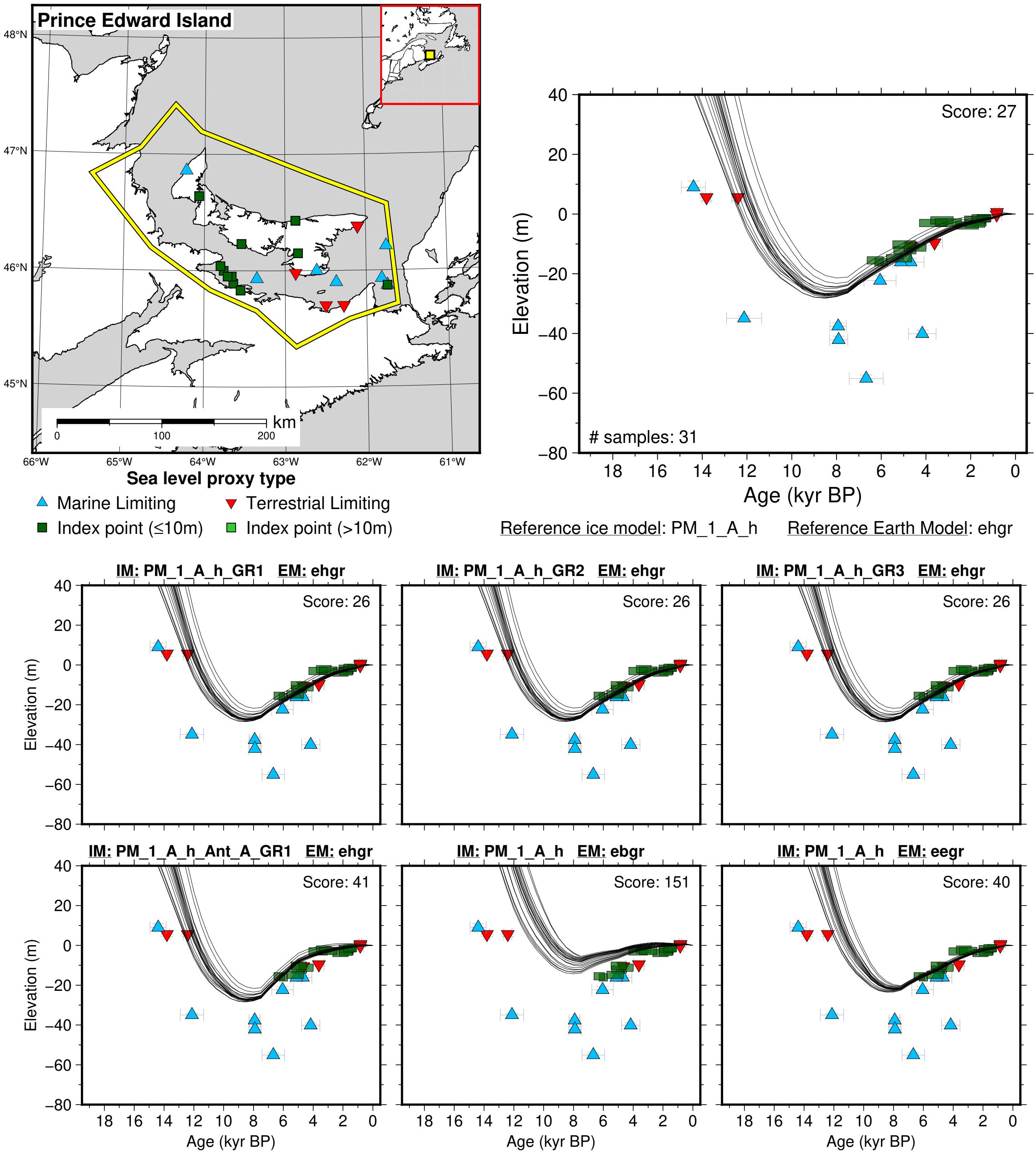

Figure 244: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Prince Edward Island. References: Kranck (1972); McCallum and Wittenberg (1965); McNeely and Brennan (2005); Ogden and Hart (1976); Scott et al. (1981, 1987); Stea and Mott (1989); Vacchi et al. (2018); Walton et al. (1961).

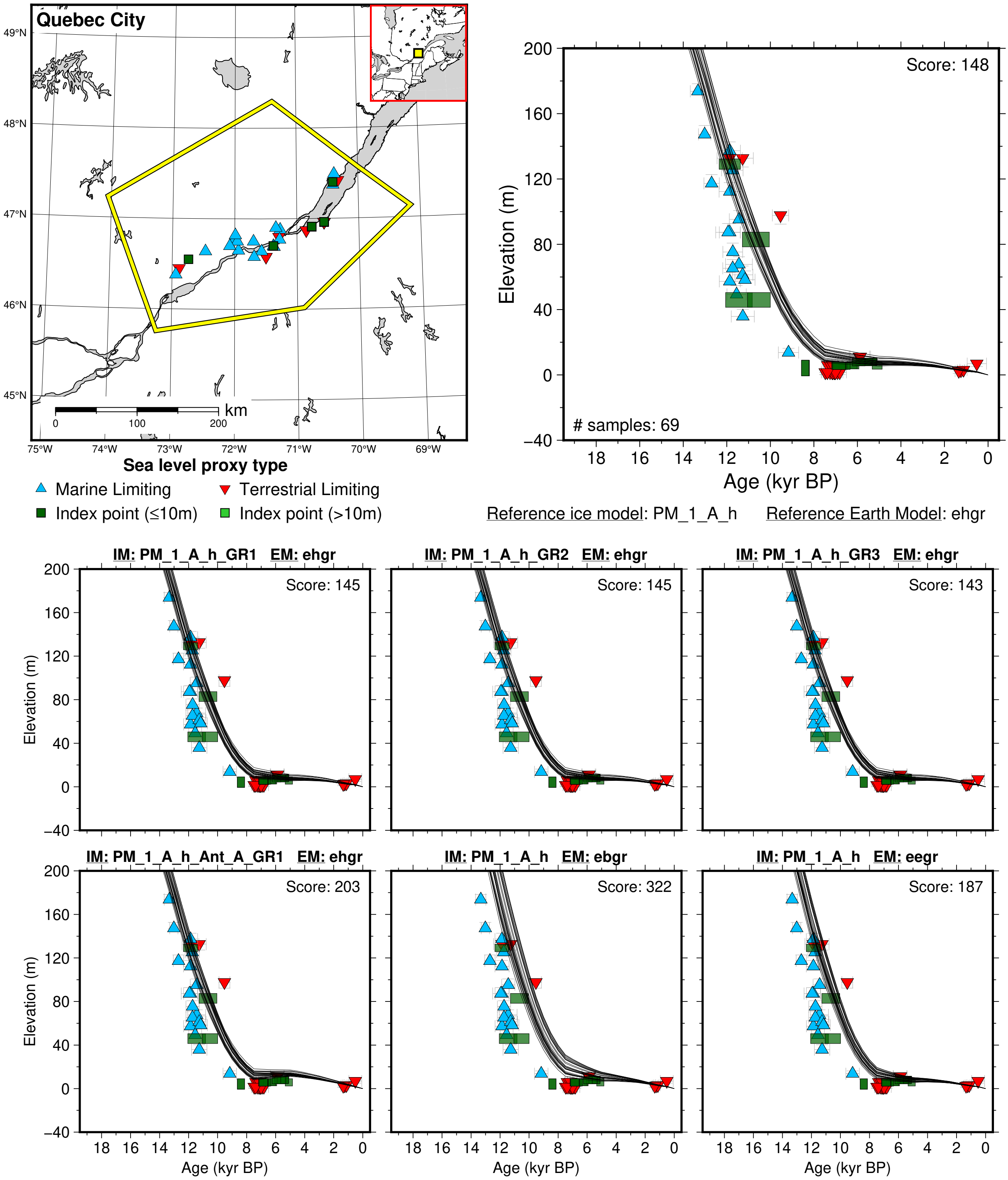

Figure 245: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Quebec City. References: Bhiry et al. (2000); Brodeur and Allard (1985); Dionne (1988, 1997, 1998); Filion (1987); Govare and Gangloff (1989); McNeely (2006); McNeely and Brennan (2005); Occhietti et al. (2001); Parent and Occhietti (1988); Samson et al. (1977); Vacchi et al. (2018).

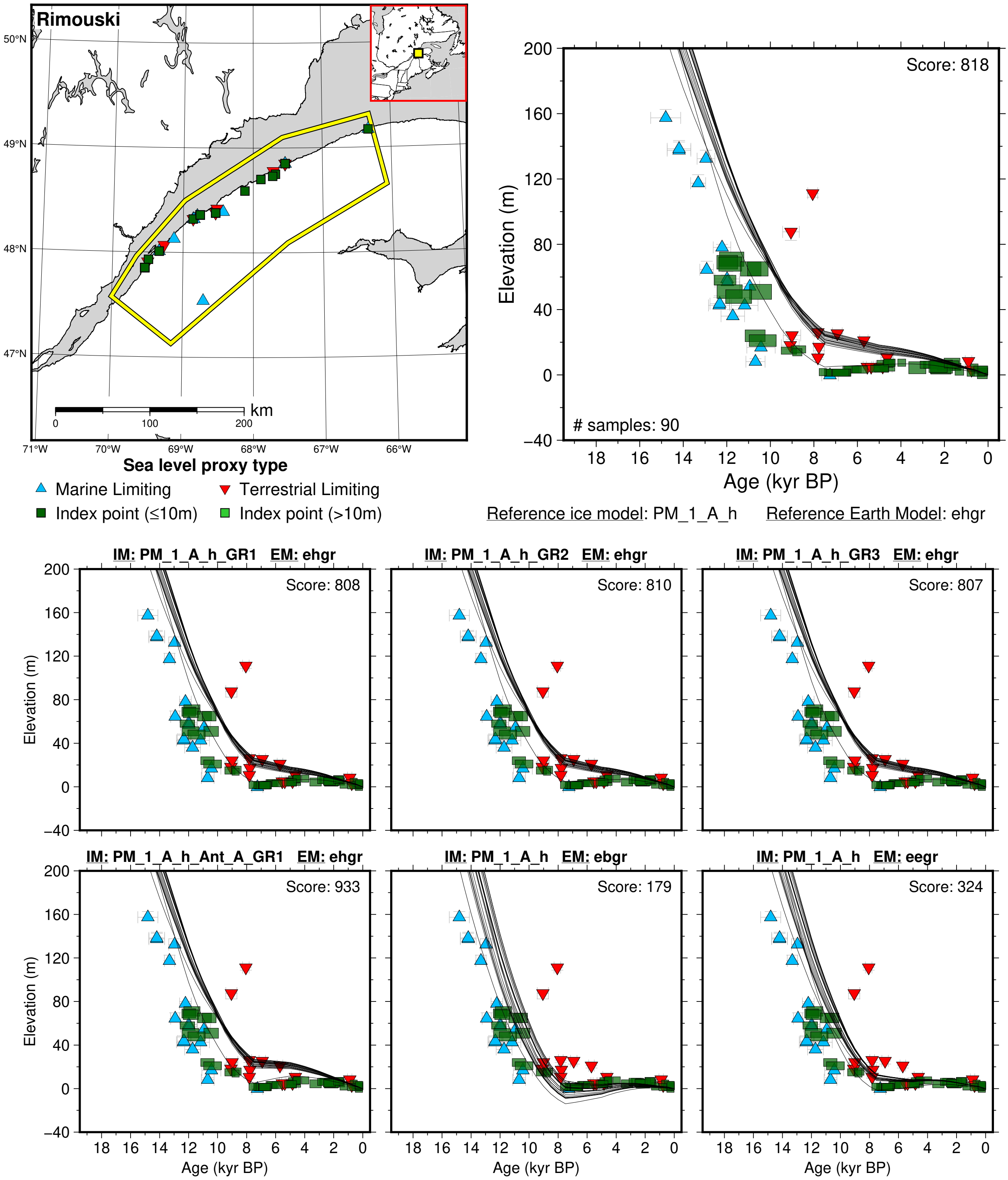

Figure 246: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Rimouski. References: Blake and Lowdon (1976); Dionne (1990, 1999, 2001a, 2005); Dionne and Coll (1995); Dyck and Fyles (1963); Harington (2003); Hétu (1998); Hétu and Bail (1996); Hétu (1994); Locat (1977); Vacchi et al. (2018).

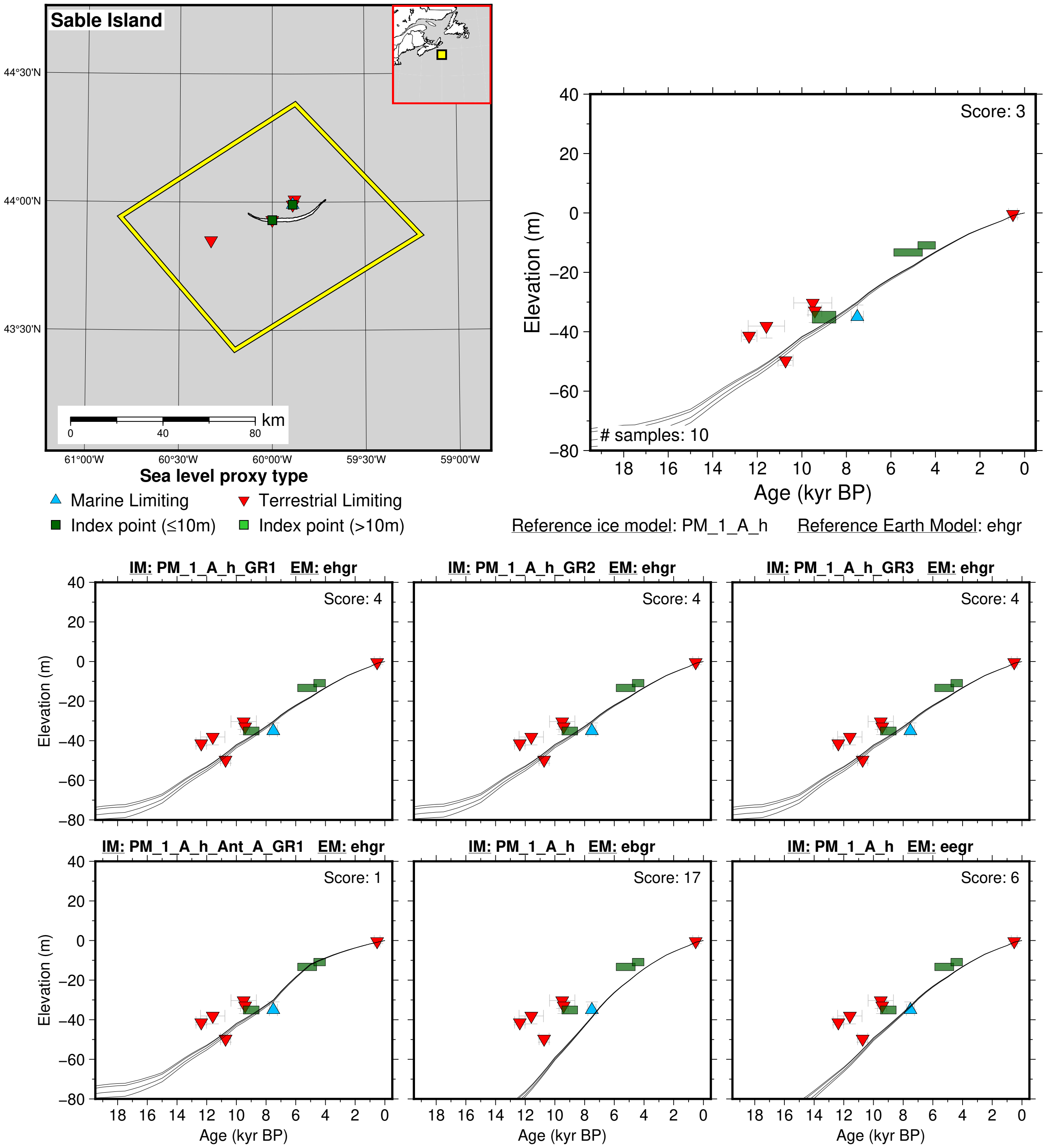

Figure 247: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Sable Island. References: Amos and Miller (1990); Scott et al. (1984, 1989); Vacchi et al. (2018).

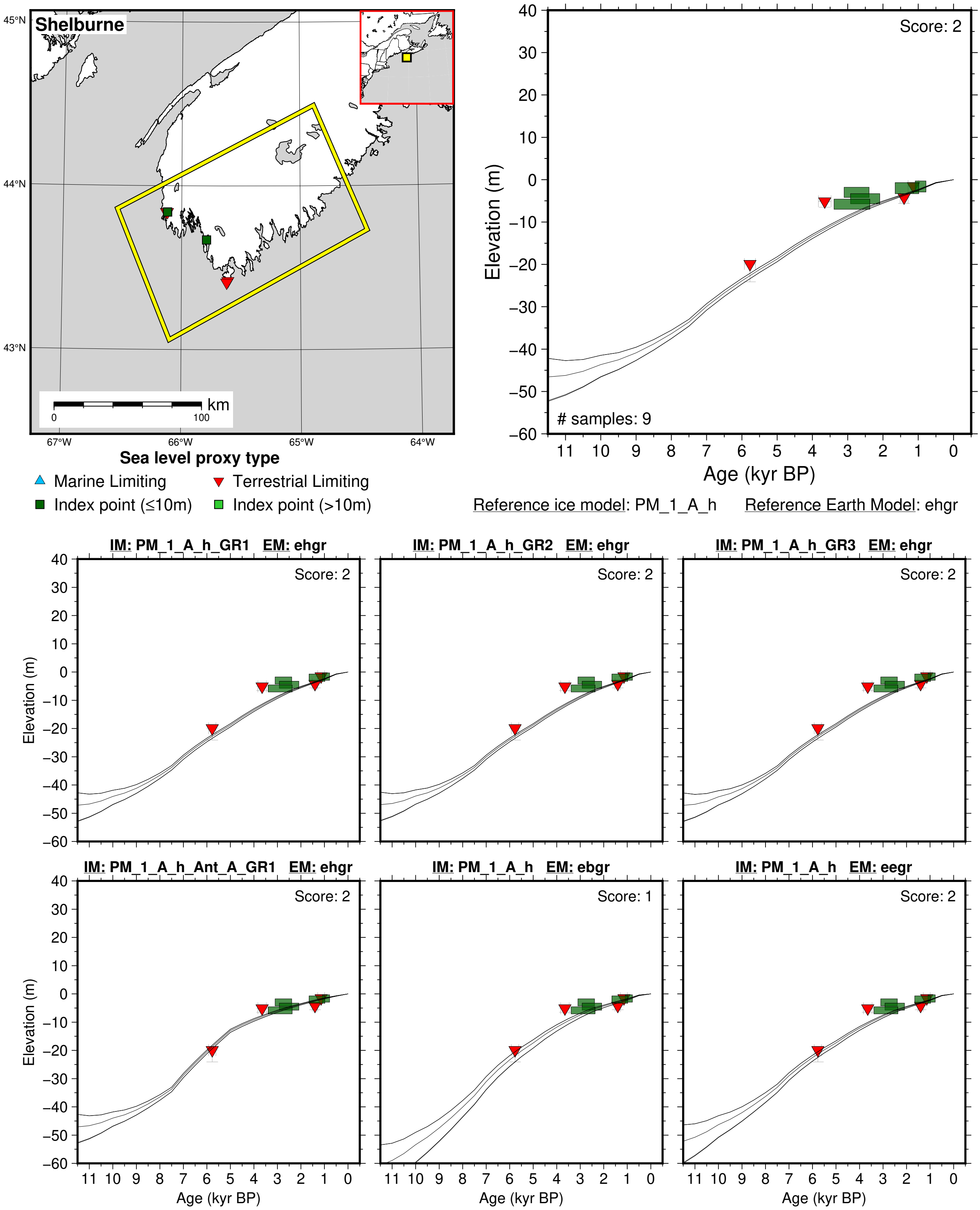

Figure 248: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Shelburne. References: Blake (1983); Lowdon and Blake (1970); Scott and Greenberg (1983); Vacchi et al. (2018).

6.9.4 Newfoundland

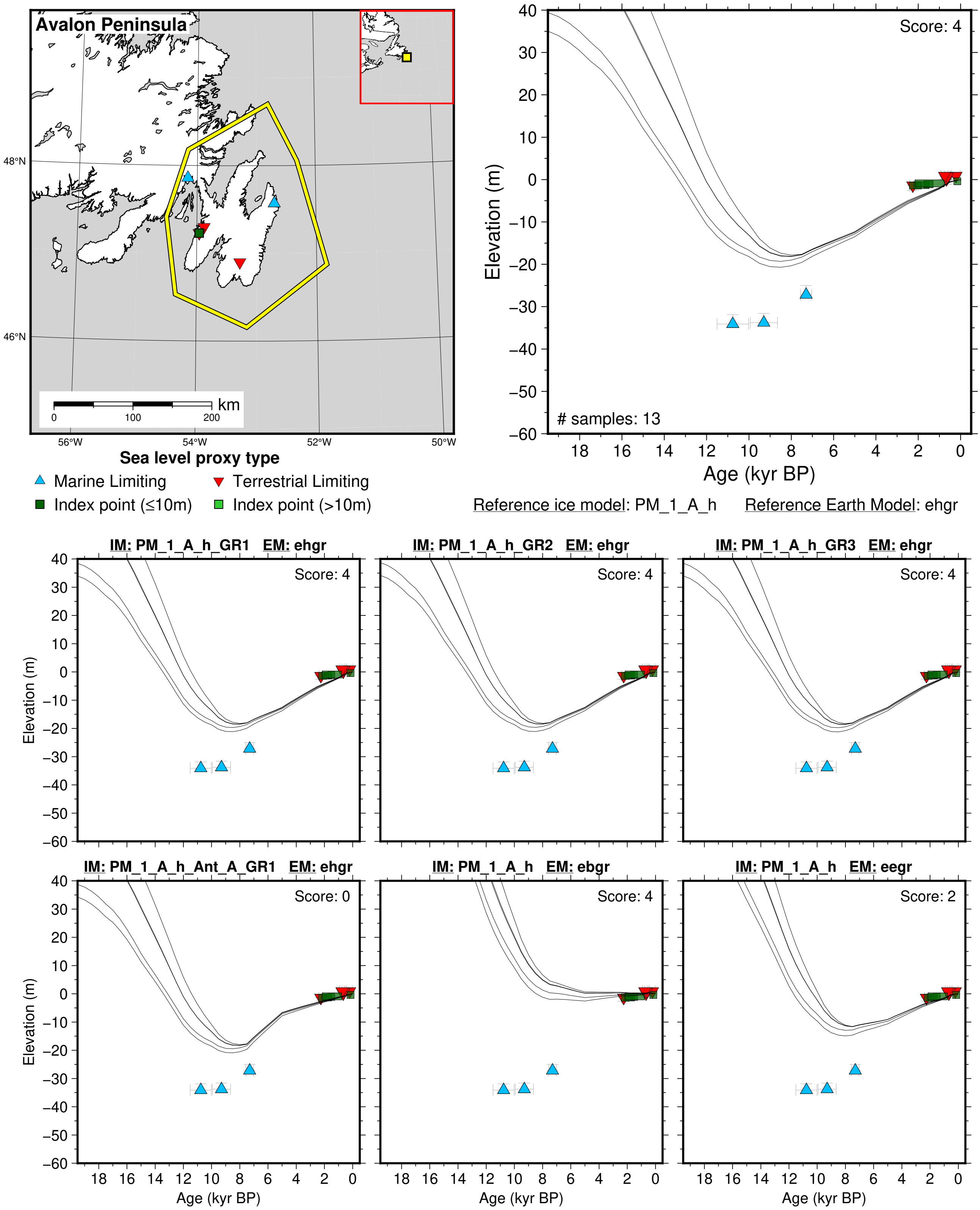

Figure 249: Paleo-sea level and comparison of six models for subregion: Newfoundland, location: Avalon Peninsula. References: Catto et al. (2000); Daly et al. (2007); MacPherson (1996); McNeely (2006); Shaw and Forbes (1995); Vacchi et al. (2018).

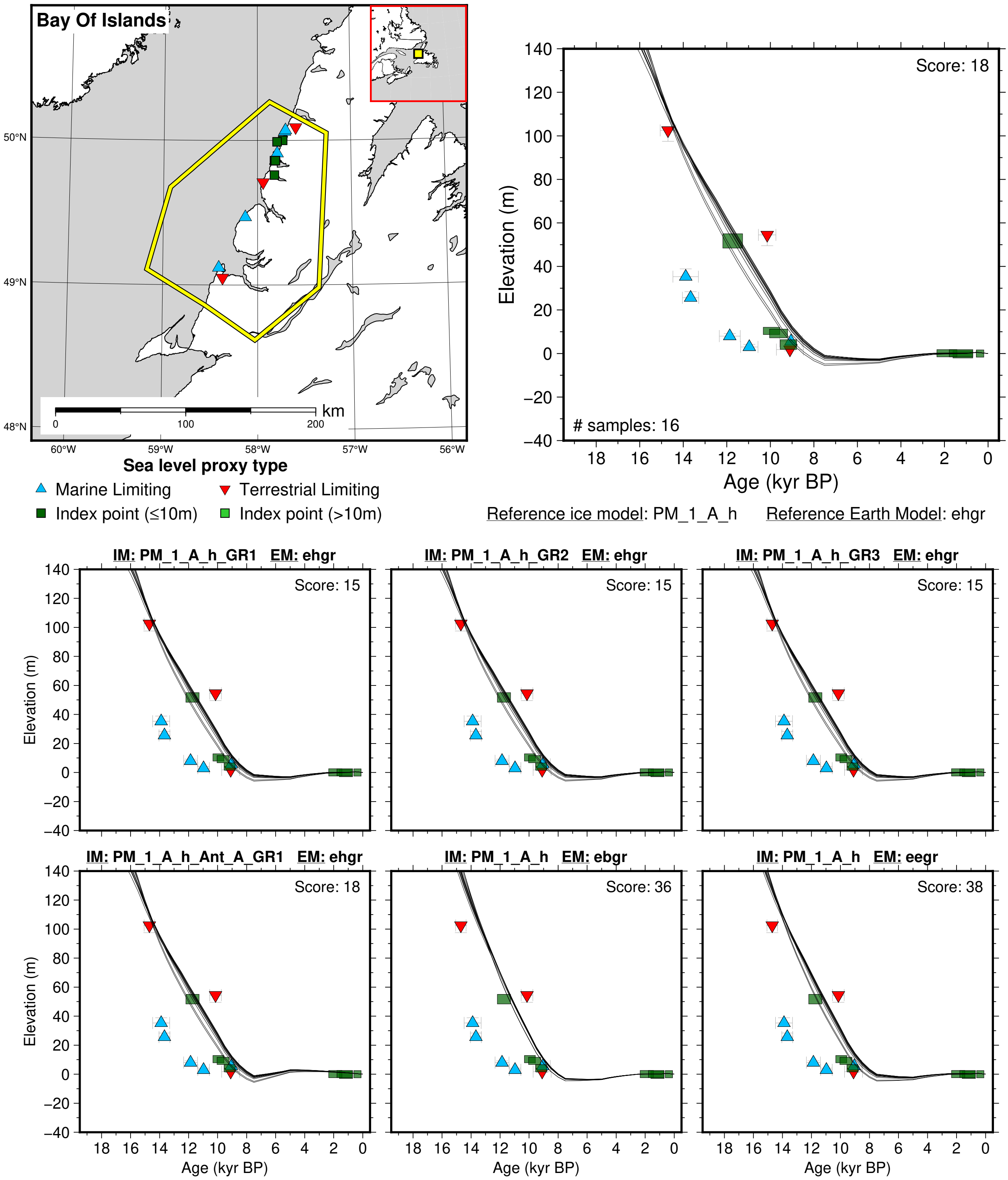

Figure 250: Paleo-sea level and comparison of six models for subregion: Newfoundland, location: Bay Of Islands. References: Brookes et al. (1985); Brookes and Stevens (1985); Daly et al. (2007); Grant (1994); McNeely and Brennan (2005); McNeely and McCuaig (1991); Vacchi et al. (2018).

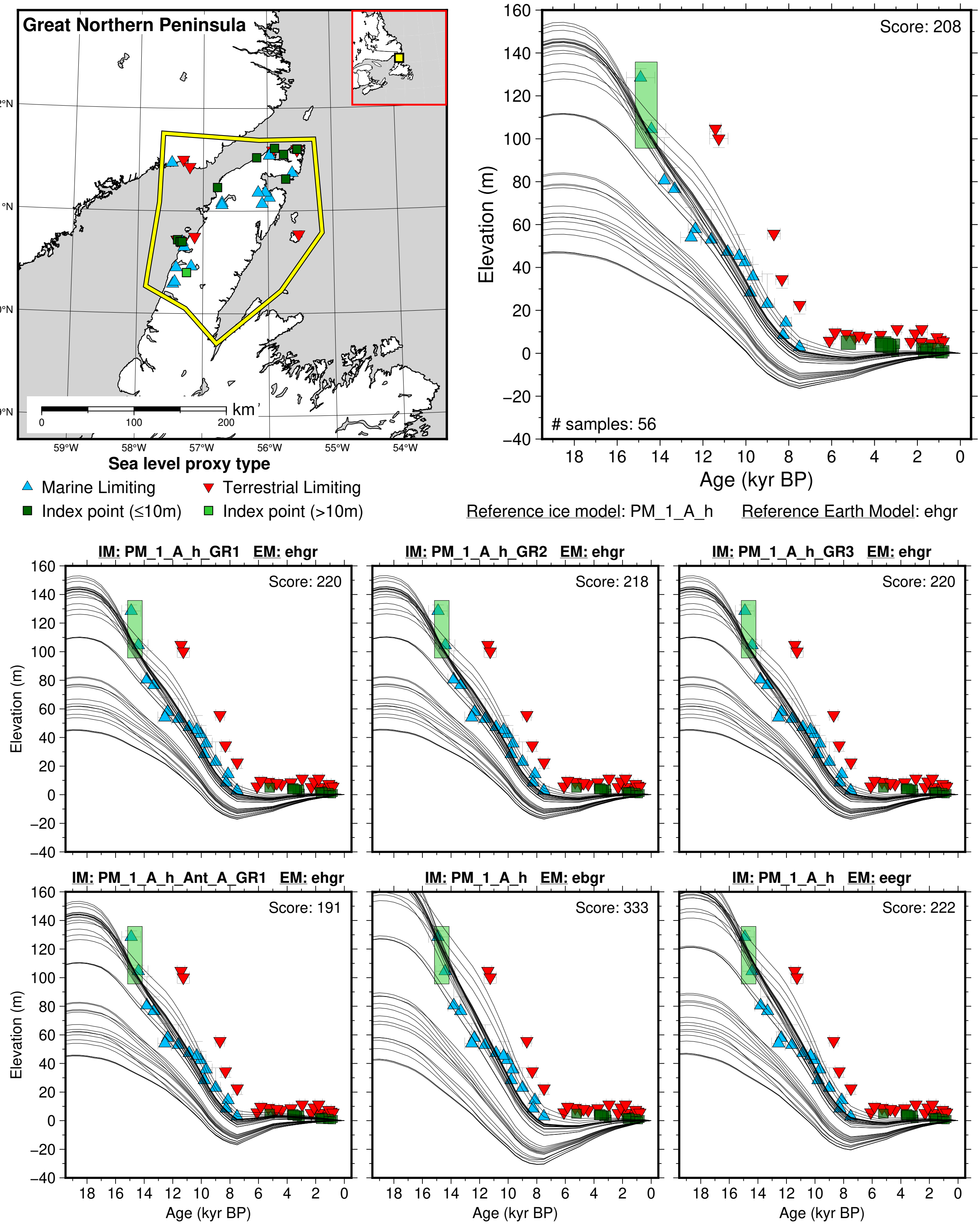

Figure 251: Paleo-sea level and comparison of six models for subregion: Newfoundland, location: Great Northern Peninsula. References: Bell et al. (2005); Grant (1992, 1994); Martindale et al. (2020); McNeely and Jorgensen (1993); McNeely and McCuaig (1991); Nydal (1989); Tuck (1971); Vacchi et al. (2018).

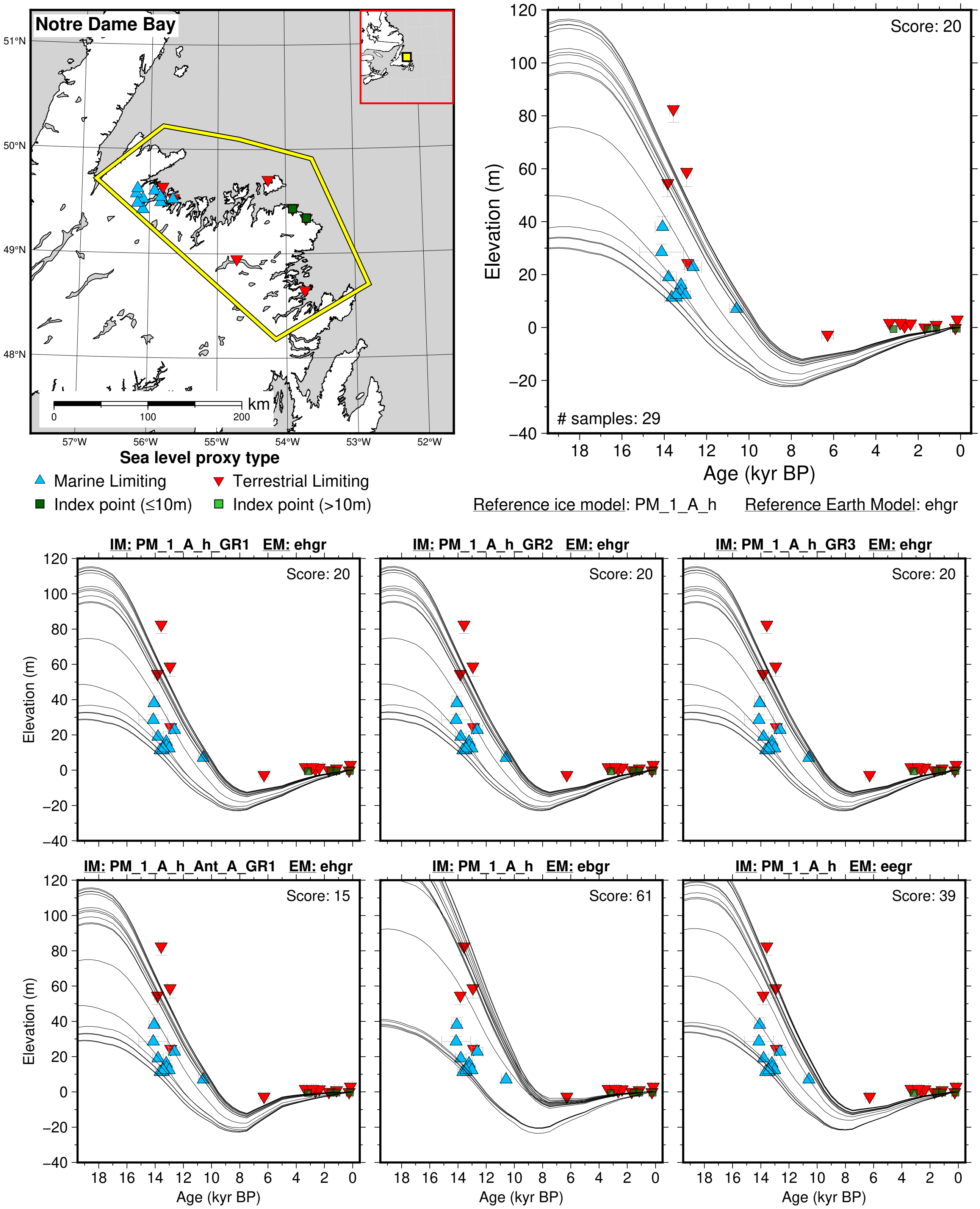

Figure 252: Paleo-sea level and comparison of six models for subregion: Newfoundland, location: Notre Dame Bay. References: Blake (1983); Daly et al. (2007); Dyck and Fyles (1963); McNeely and Brennan (2005); McNeely and McCuaig (1991); Scott et al. (1991); Shaw and Edwardson (1994); Vacchi et al. (2018).

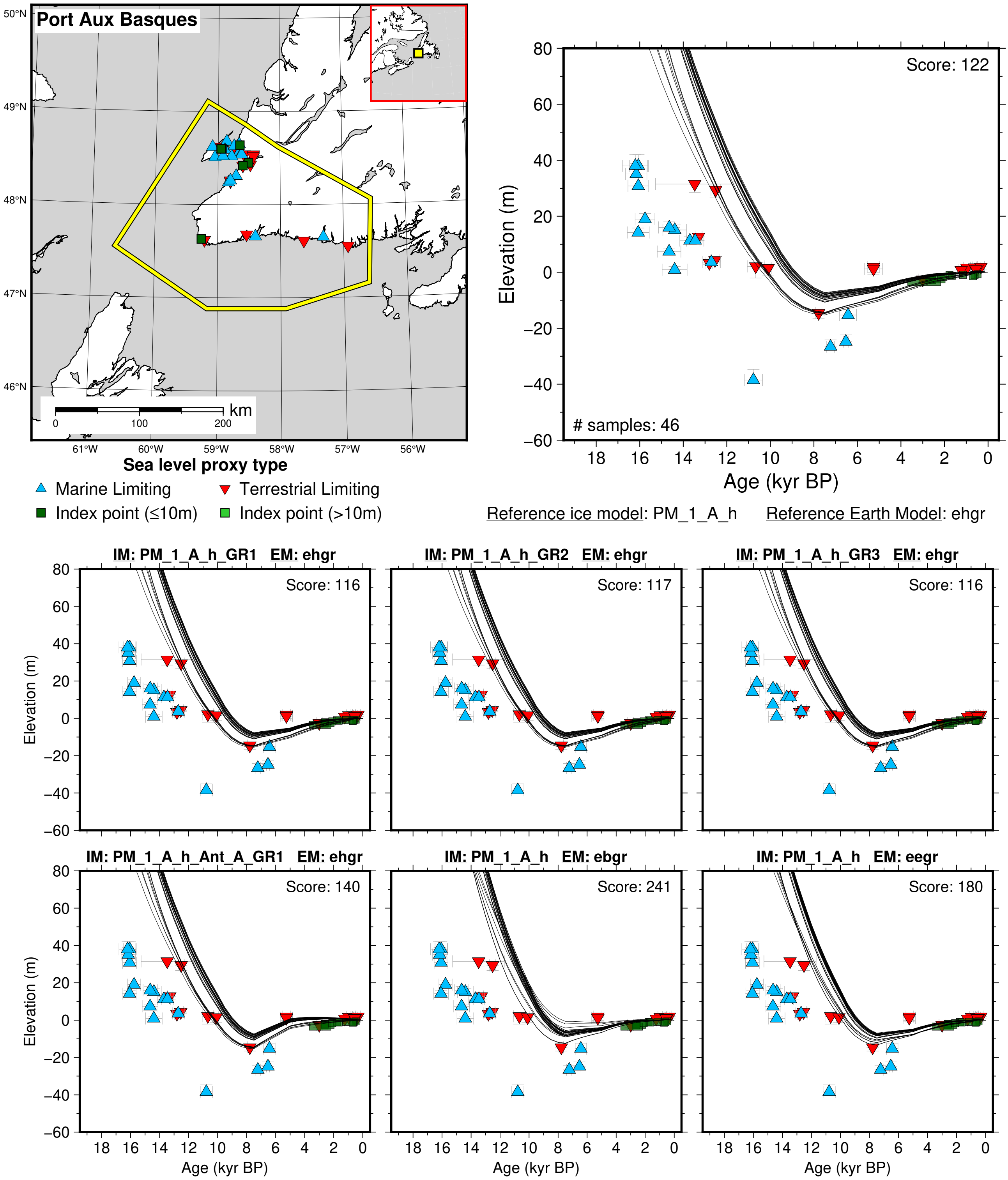

Figure 253: Paleo-sea level and comparison of six models for subregion: Newfoundland, location: Port Aux Basques. References: Bell et al. (2003); Blake (1988); Brookes et al. (1985); Daly et al. (2007); Dyke et al. (2003); Forbes et al. (1993); Kemp et al. (2017); Lowdon and Blake (1980); Lowdon et al. (1971); McNeely (2002); McNeely and Atkinson (1995); McNeely and Brennan (2005); McNeely and Jorgensen (1992, 1993); McNeely and McCuaig (1991); Shaw and Forbes (1987, 1995); Shaw and Potter (2015); Vacchi et al. (2018).

6.9.5 Northeastern United States

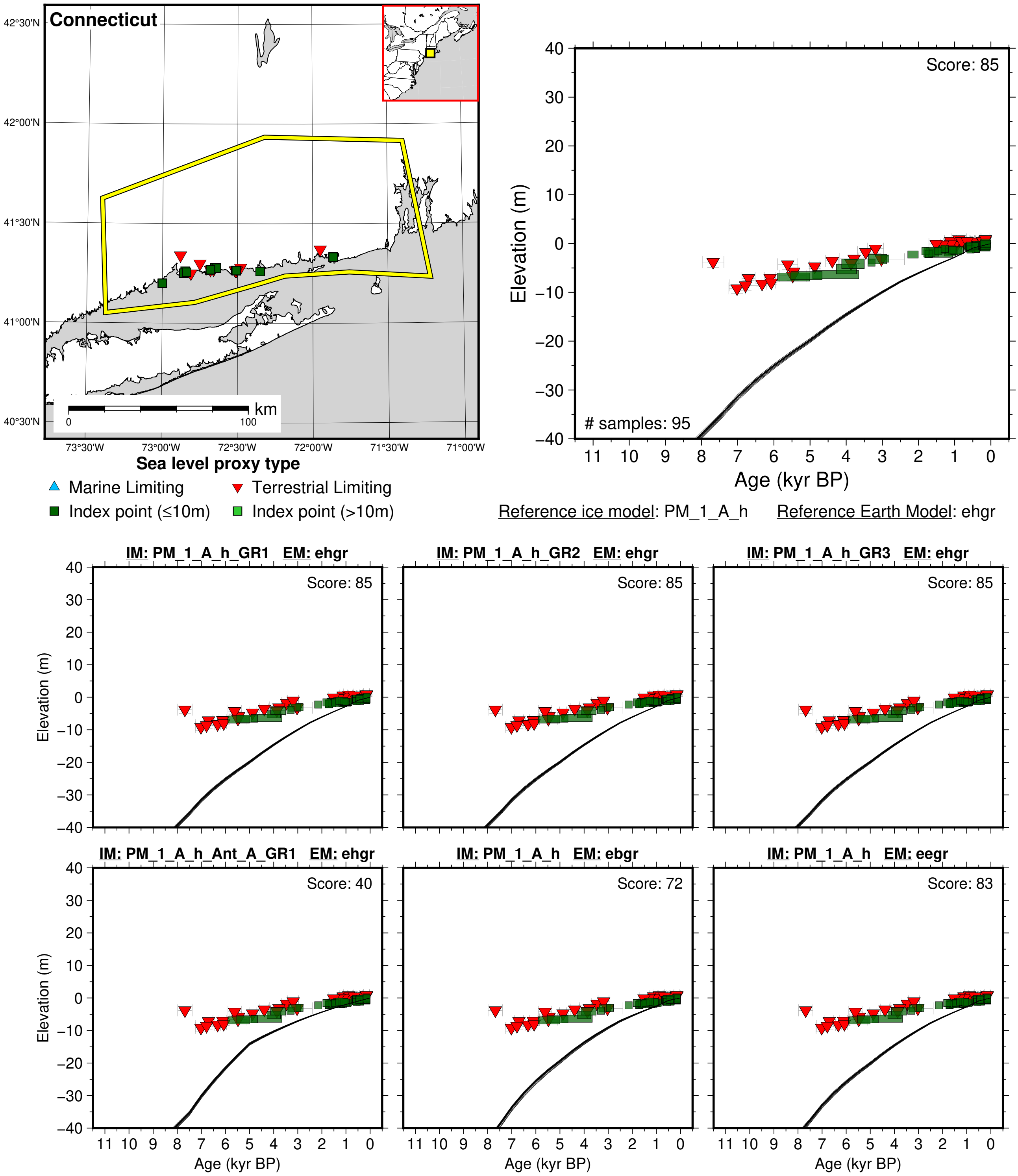

Figure 254: Paleo-sea level and comparison of six models for subregion: Northeastern United States, location: Connecticut. References: Bloom (1963); Cinquemani et al. (1982); Donnelly et al. (2004); Engelhart and Horton (2012); Nydick et al. (1995); Redfield and Rubin (1962); van de Plassche (1991); van de Plassche et al. (1989, 1998, 2002).

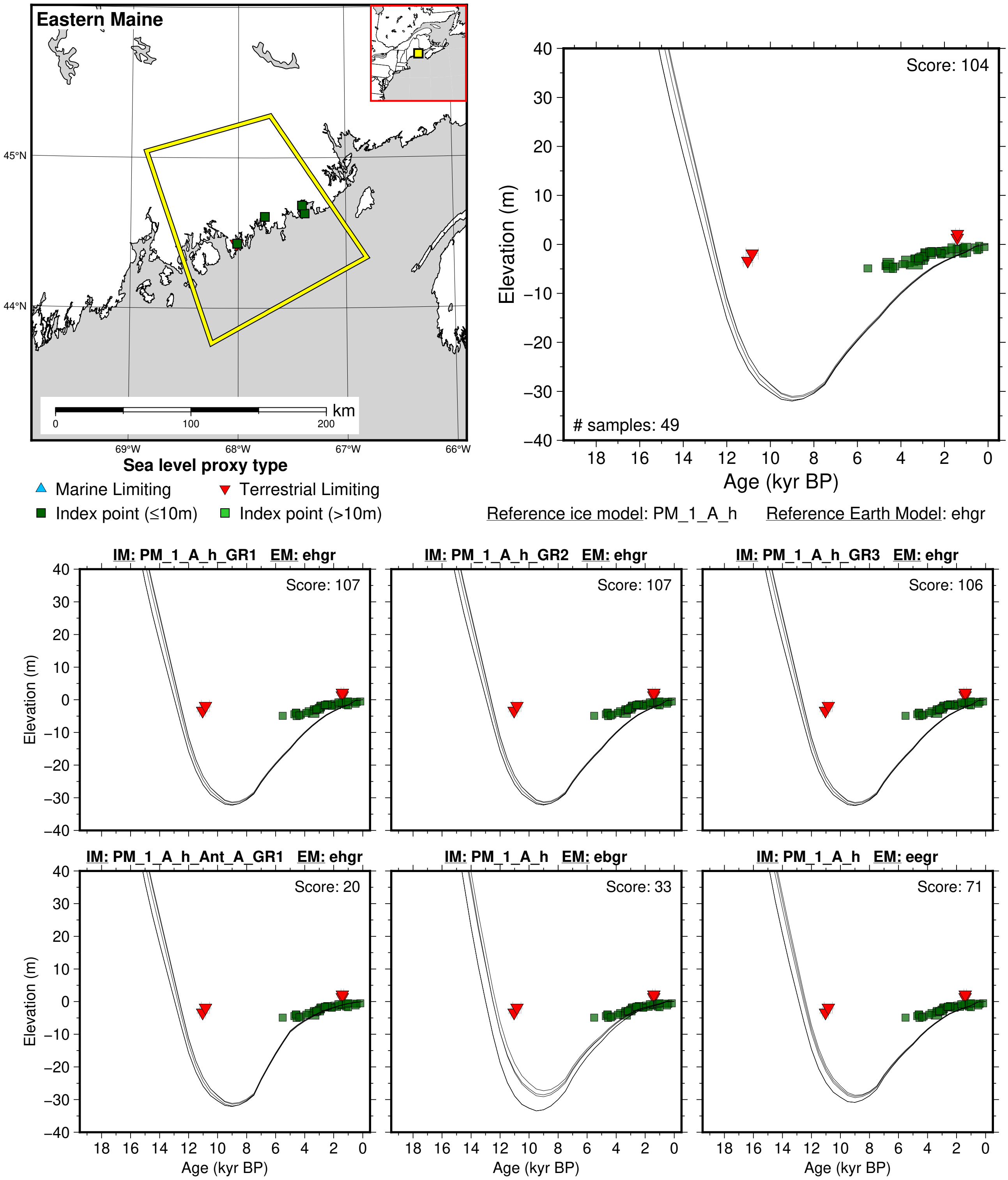

Figure 255: Paleo-sea level and comparison of six models for subregion: Northeastern United States, location: Eastern Maine. References: Belknap et al. (1989); Engelhart and Horton (2012); Gehrels (1999); Gehrels and Belknap (1993); Gehrels et al. (1996).

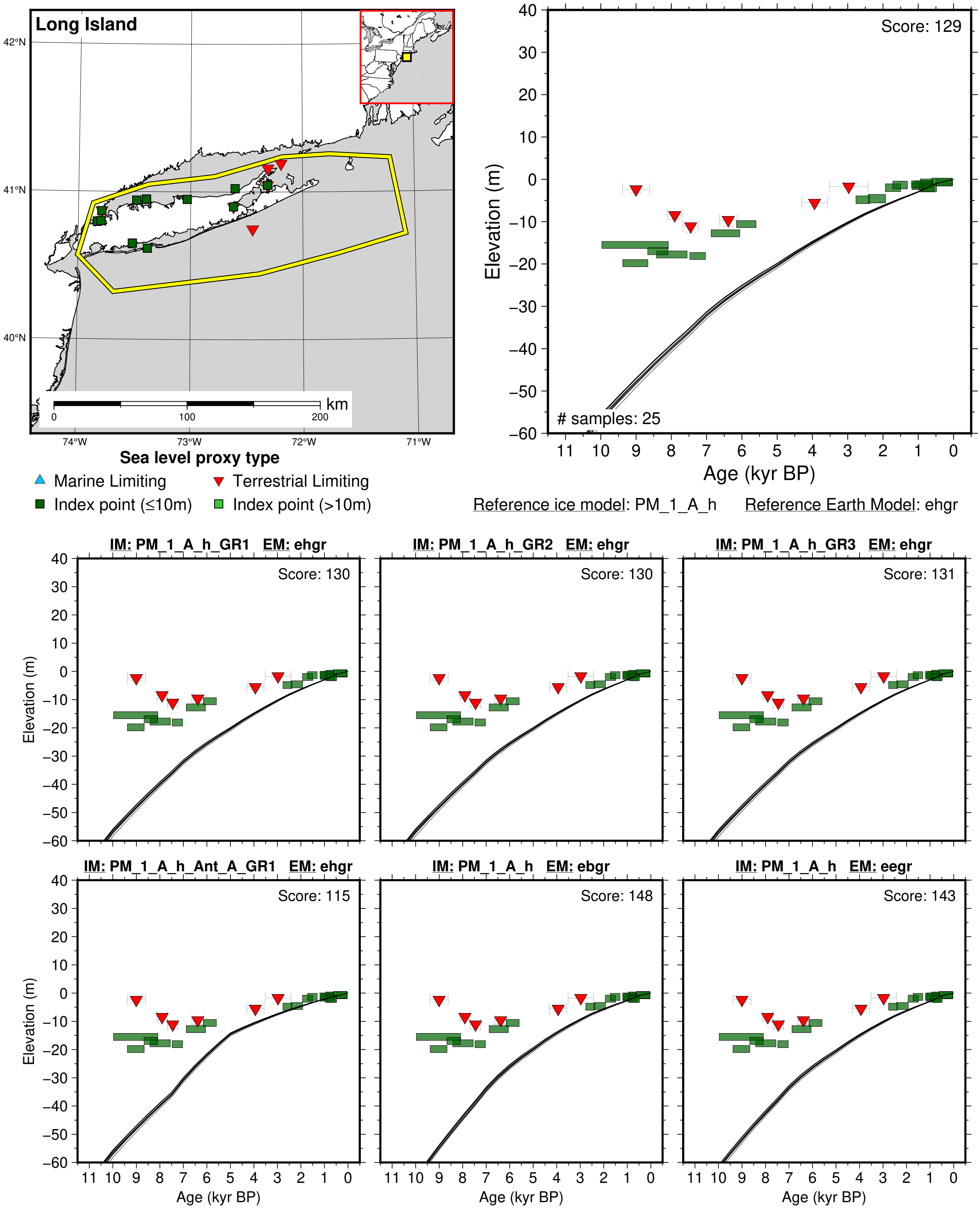

Figure 256: Paleo-sea level and comparison of six models for subregion: Northeastern United States, location: Long Island. References: Bloom (1963); Cinquemani et al. (1982); Engelhart and Horton (2012); Field et al. (1979); Pardi and Newman (1980); Pardi et al. (1984); Redfield (1967); Redfield and Rubin (1962).

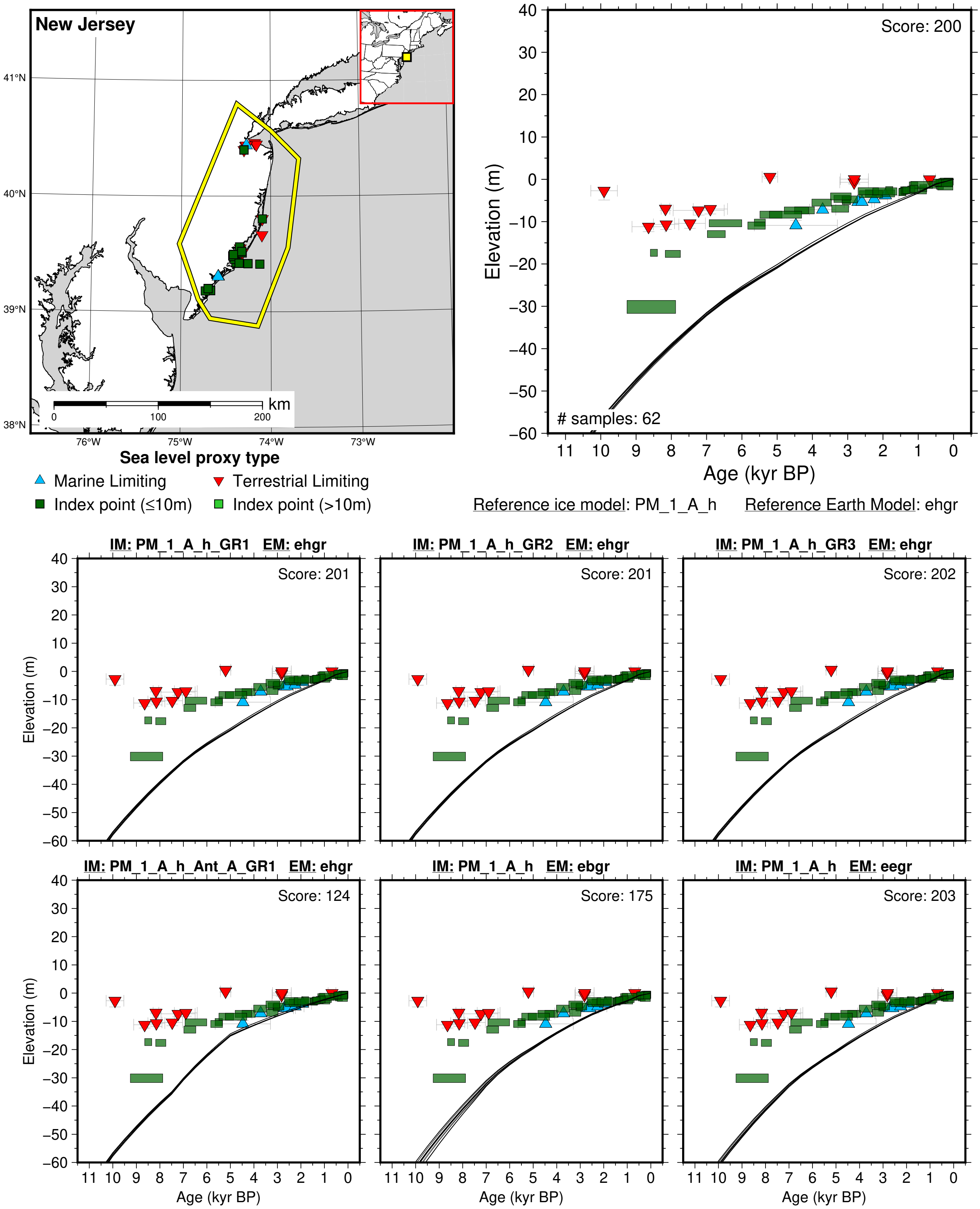

Figure 257: Paleo-sea level and comparison of six models for subregion: Northeastern United States, location: New Jersey. References: Cinquemani et al. (1982); Donnelly et al. (2001); Engelhart and Horton (2012); Field et al. (1979); Miller et al. (2009); Pardi et al. (1984); Psuty (1986); Stuiver and Daddario (1963).

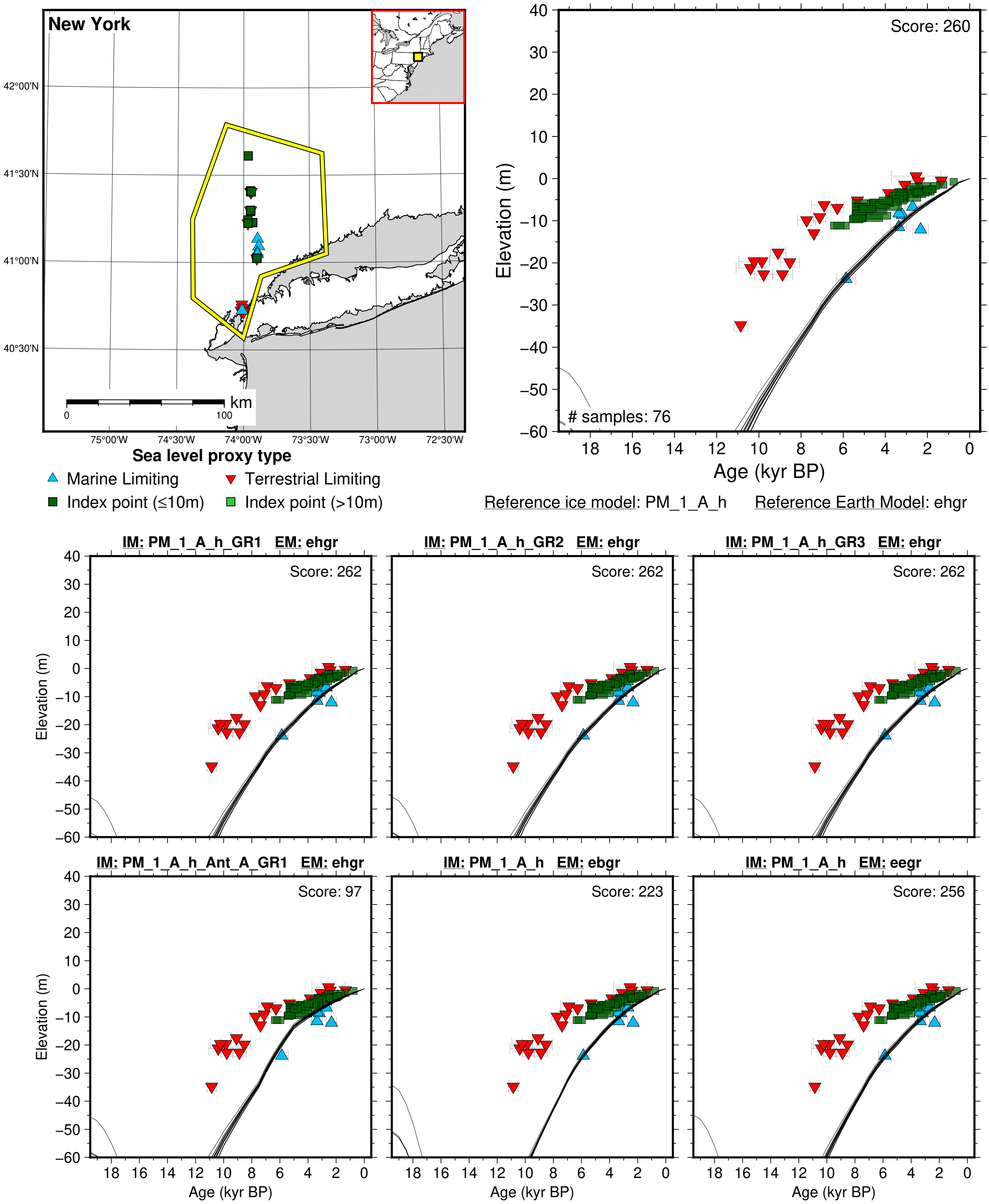

Figure 258: Paleo-sea level and comparison of six models for subregion: Northeastern United States, location: New York. References: Engelhart and Horton (2012); Olson and Broecker (1961); Pardi et al. (1984); Slagle et al. (2006).

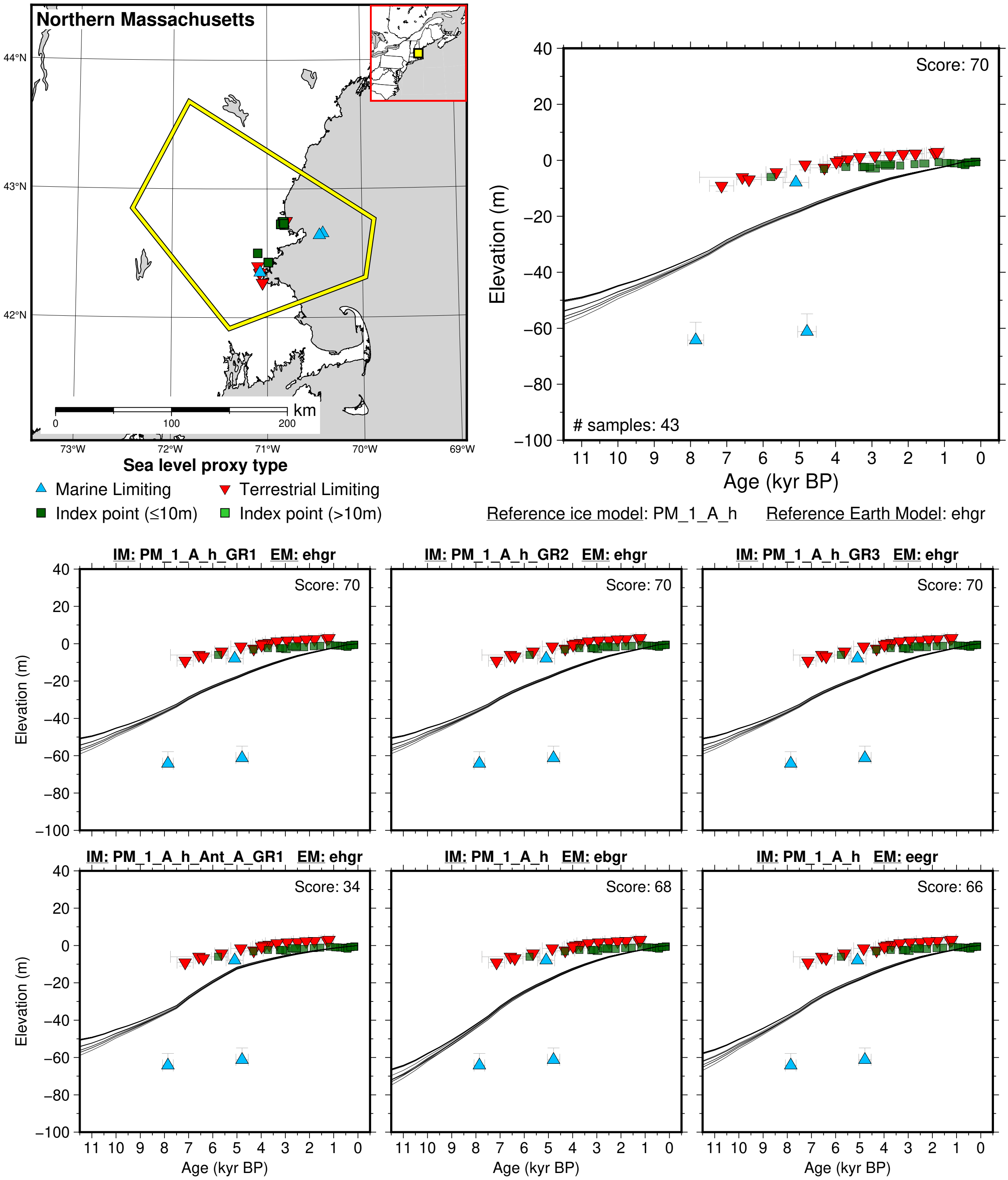

Figure 259: Paleo-sea level and comparison of six models for subregion: Northeastern United States, location: Northern Massachusetts. References: Donnelly (2006); Engelhart and Horton (2012); Kaye and Barghoorn (1964); Kirwan et al. (2011); Newman et al. (1980); Oldale et al. (1993); Redfield (1967); Redfield and Rubin (1962).

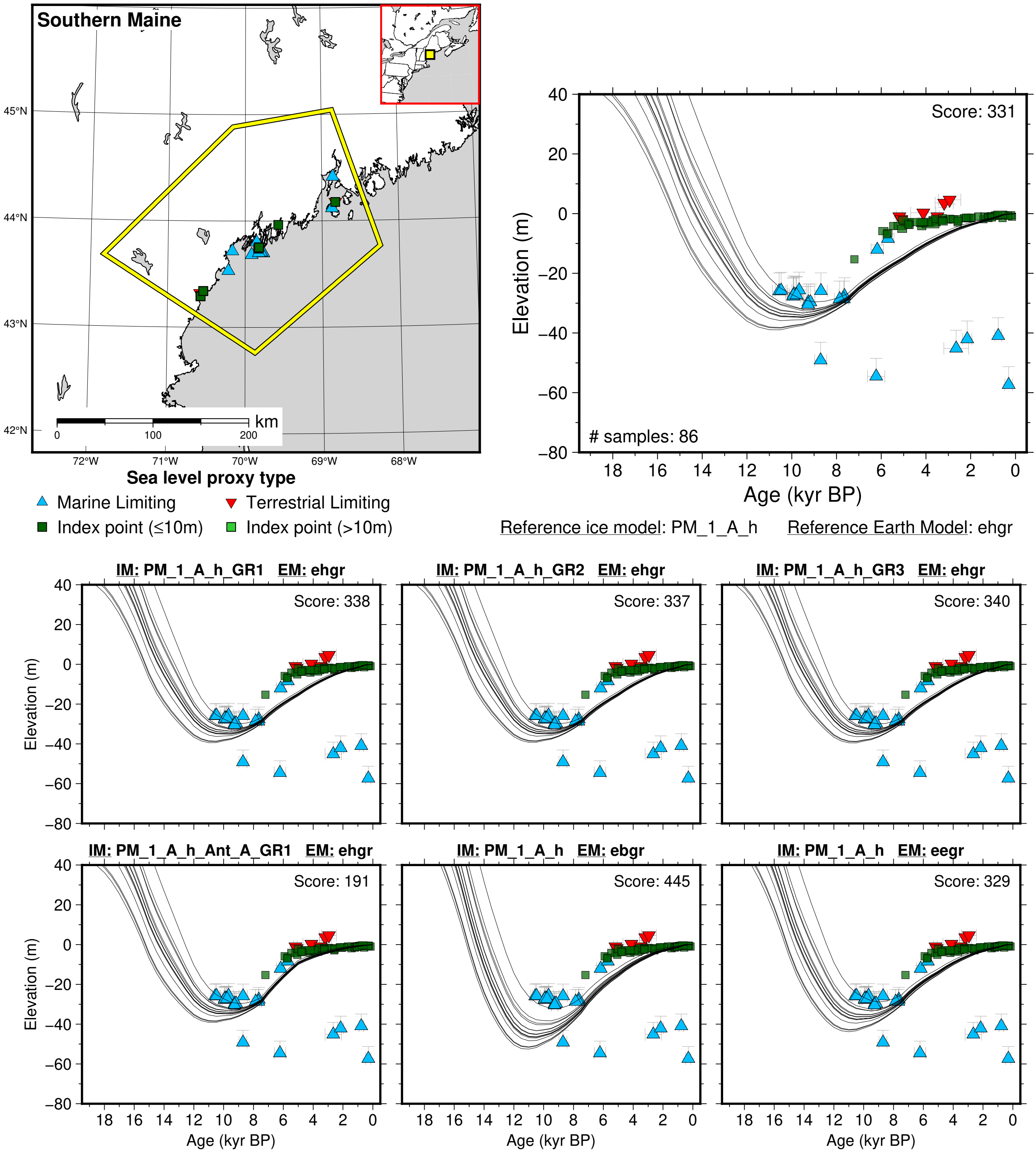

Figure 260: Paleo-sea level and comparison of six models for subregion: Northeastern United States, location: Southern Maine. References: Barnhardt et al. (1995); Belknap et al. (1989); Bloom (1963); Engelhart and Horton (2012); Gehrels et al. (1996, 2002); Kelley et al. (1992, 1995).

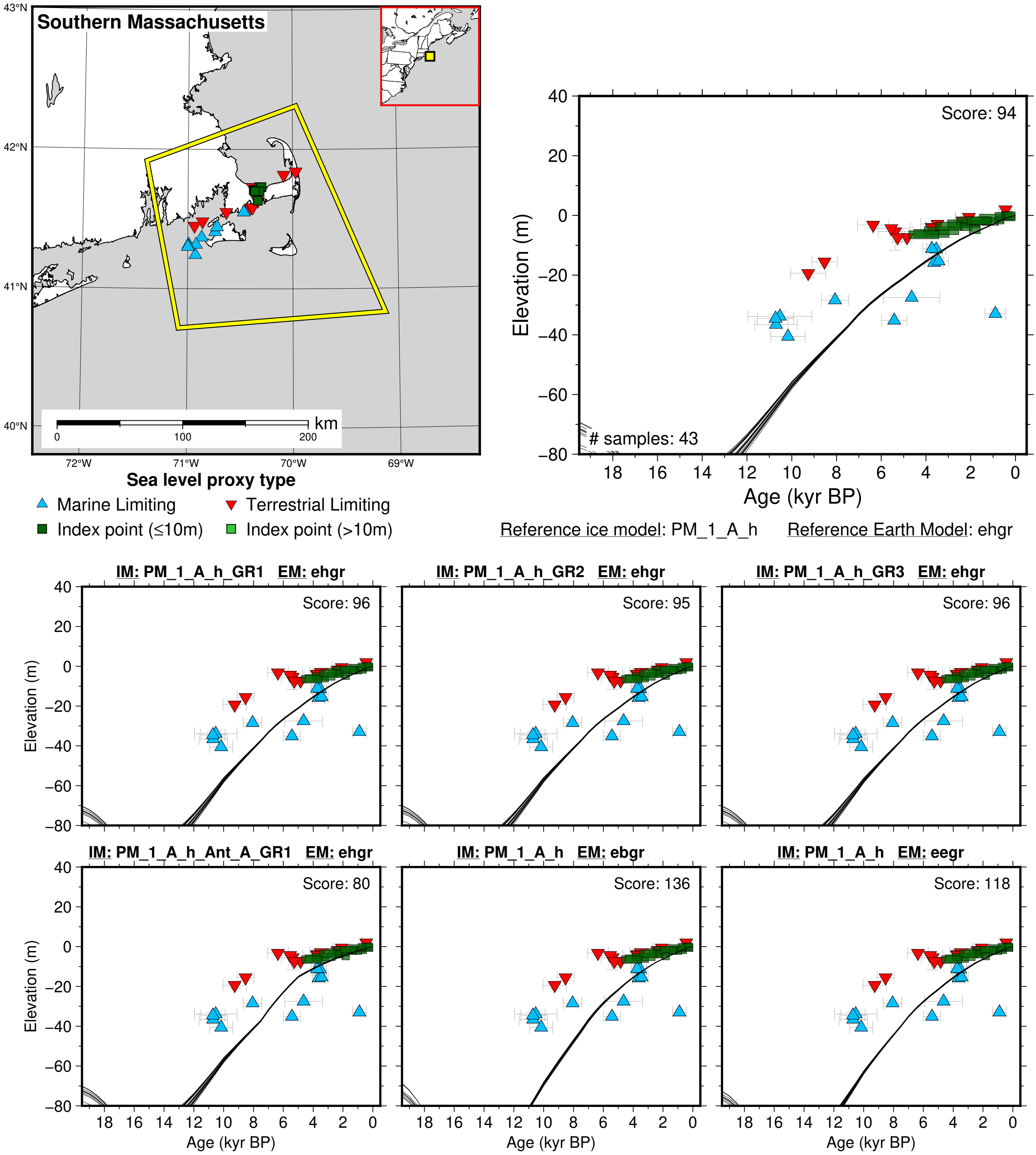

Figure 261: Paleo-sea level and comparison of six models for subregion: Northeastern United States, location: Southern Massachusetts. References: Emery et al. (1967); Engelhart and Horton (2012); Field et al. (1979); Gutierrez et al. (2003); Oldale and O'Hara (1980); Redfield (1967); Redfield and Rubin (1962); Stuiver et al. (1963).

6.10 Pacific Islands

6.10.1 French Polynesia

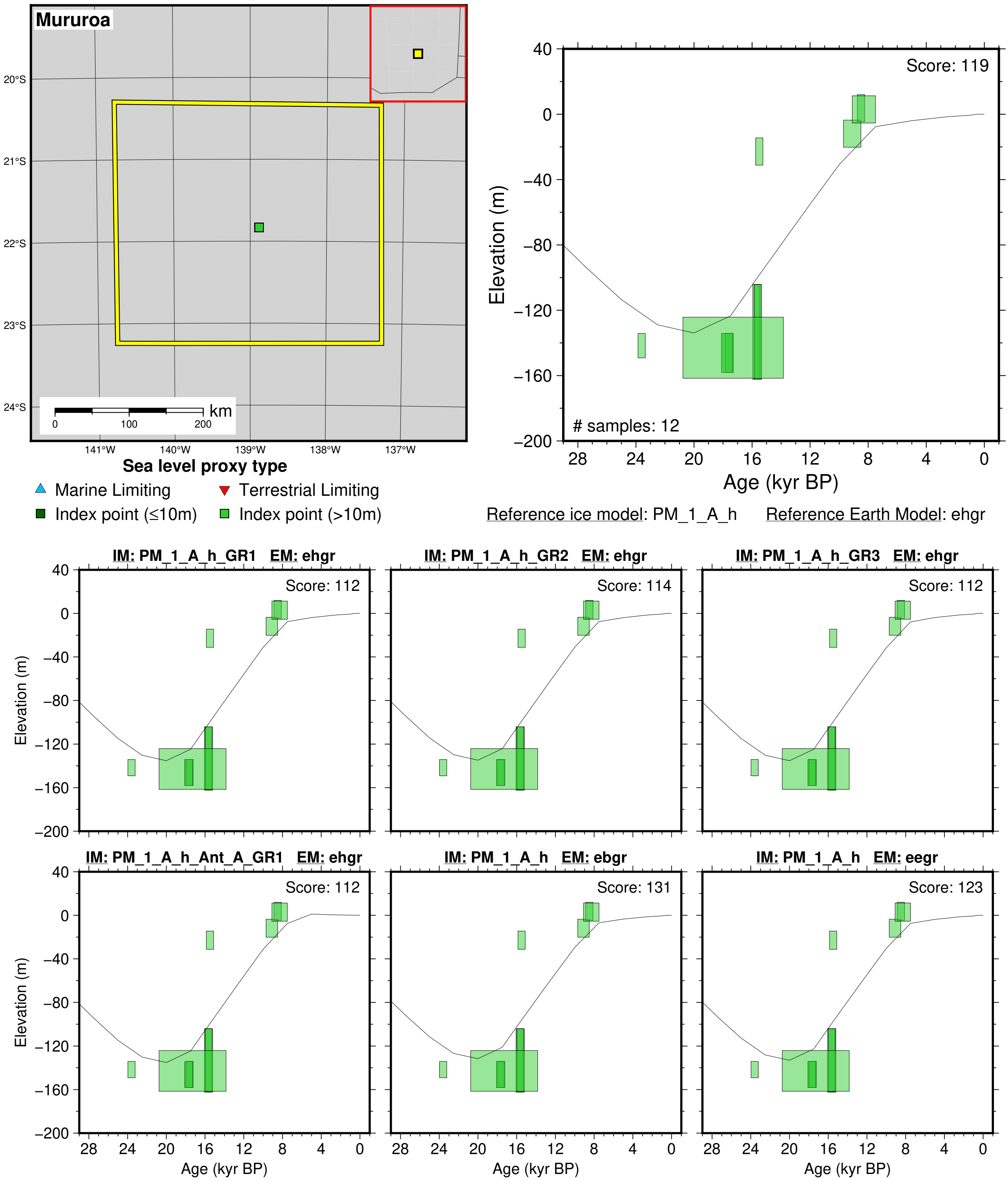

Figure 262: Paleo-sea level and comparison of six models for subregion: French Polynesia, location: Mururoa. References: Camoin et al. (2001); Hibbert et al. (2016).

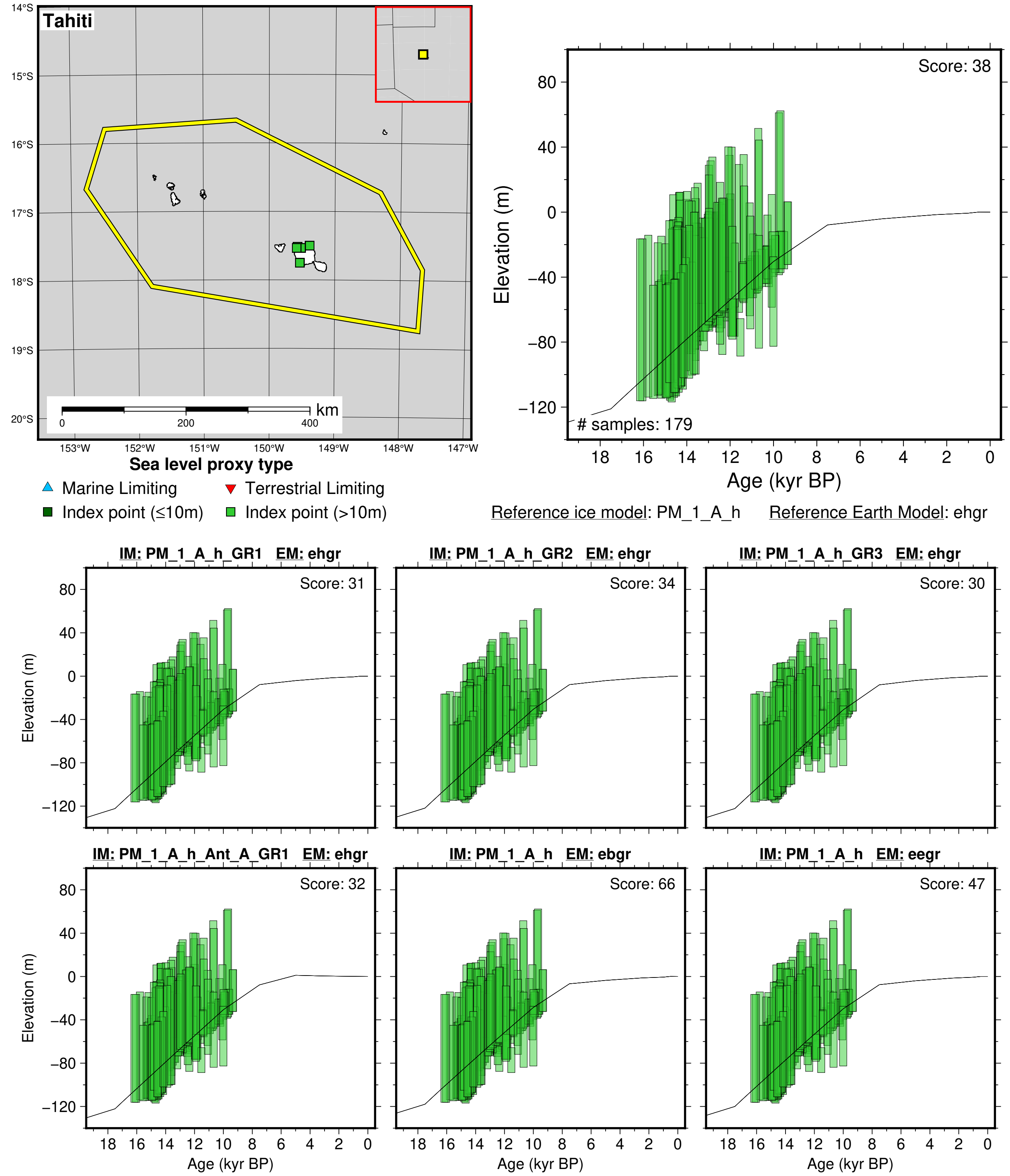

Figure 263: Paleo-sea level and comparison of six models for subregion: French Polynesia, location: Tahiti. References: Bard et al. (1996, 2010); Deschamps et al. (2012); Hibbert et al. (2016).

6.10.2 Melansia

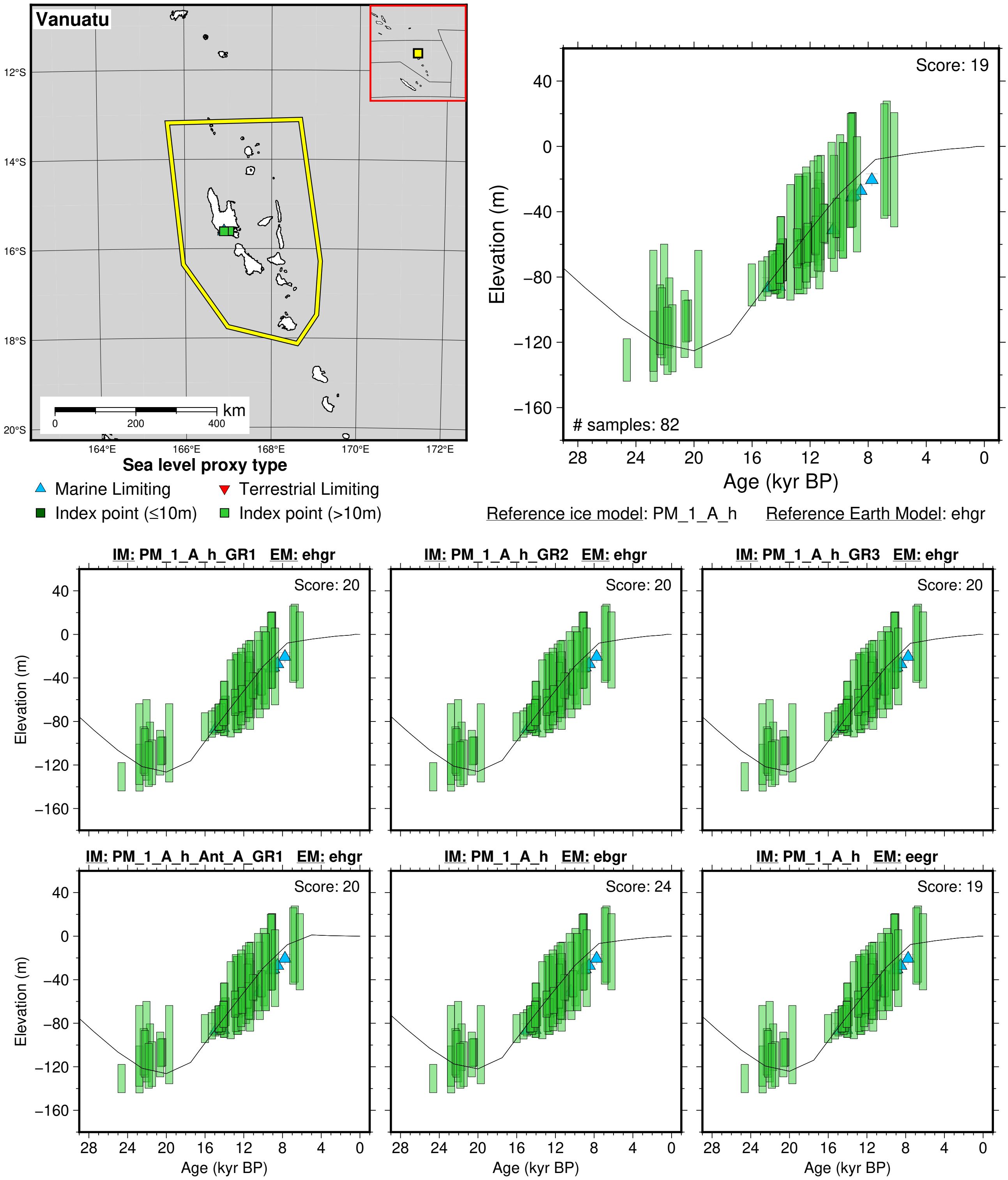

Figure 264: Paleo-sea level and comparison of six models for subregion: Melansia, location: Vanuatu. References: Cabioch et al. (2003); Cutler et al. (2004); Hibbert et al. (2016).

6.11 Proxy Based Sea Level

6.11.1 Red Sea

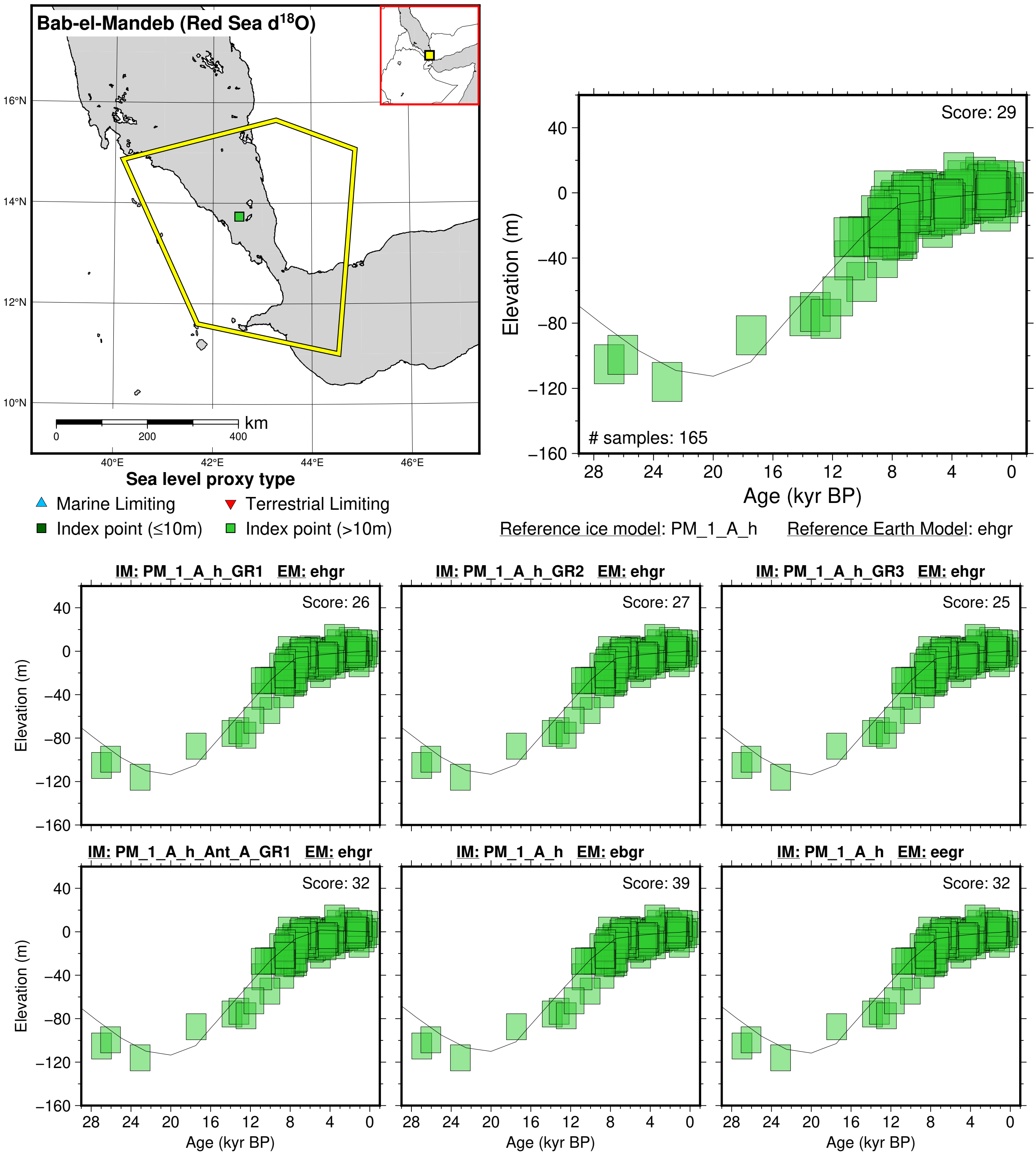

Figure 265: Paleo-sea level and comparison of six models for subregion: Red Sea, location: Bab-el-Mandeb (Red Sea δ^{18}O Proxy). References: Grant et al. (2012, 2014).

6.12 South Asia

6.12.1 Bay of Bengal

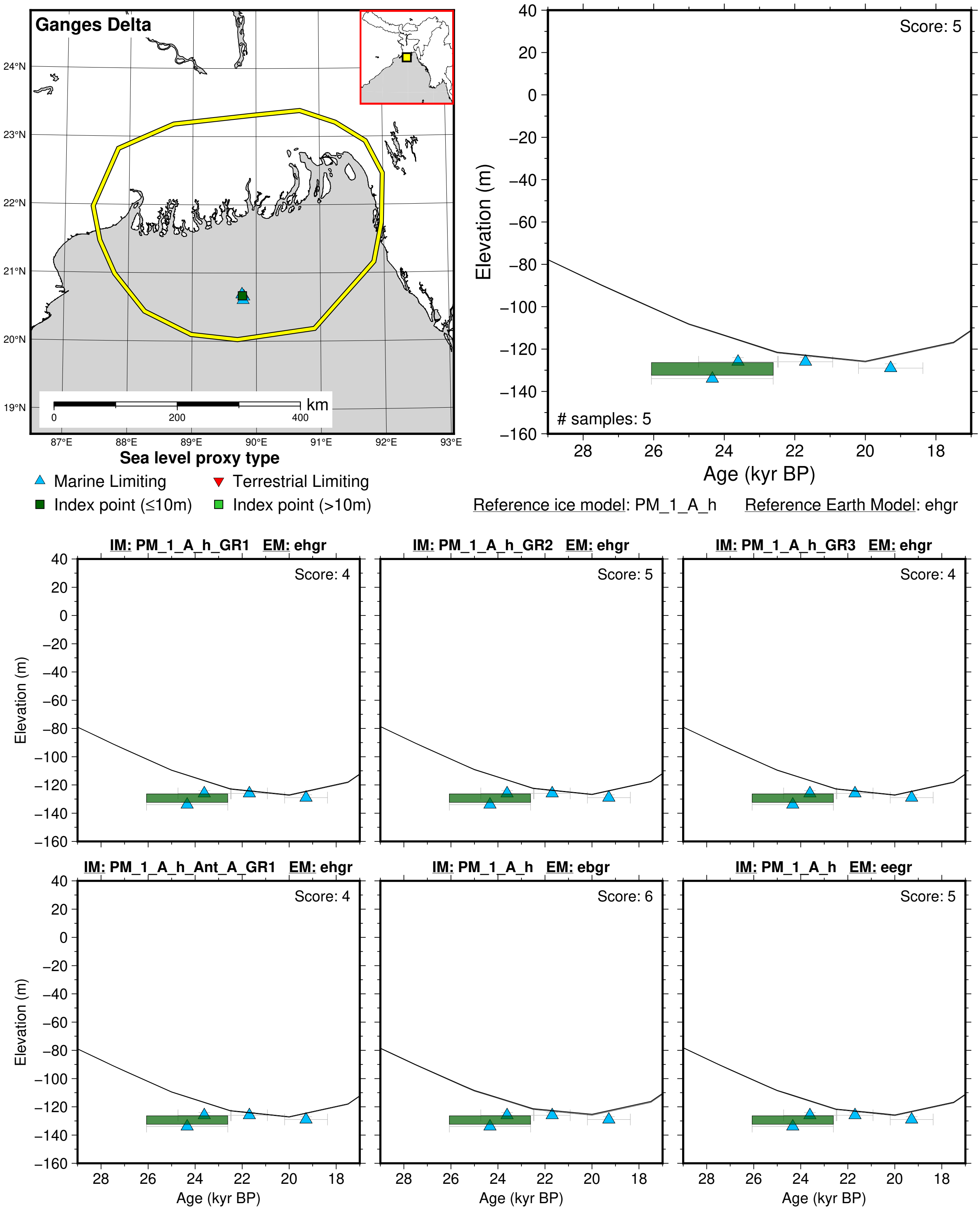

Figure 266: Paleo-sea level and comparison of six models for subregion: Bay of Bengal, location: Ganges Delta. References: Wiedicke et al. (1999).

6.13 Southeast Asia

6.13.1 Java Sea

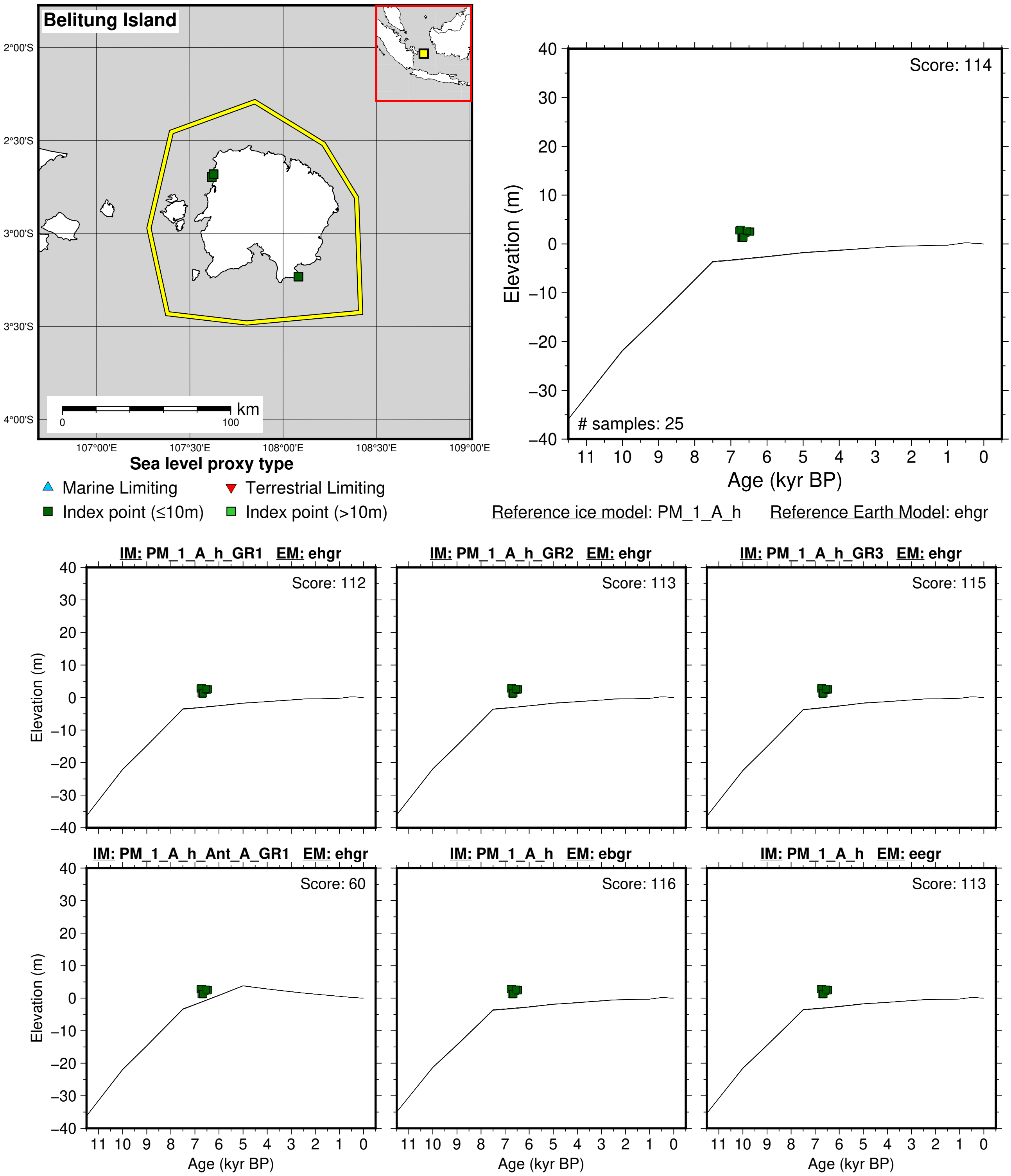

Figure 267: Paleo-sea level and comparison of six models for subregion: Java Sea, location: Belitung Island. References: Mann et al. (2019); Meltzner et al. (2017).

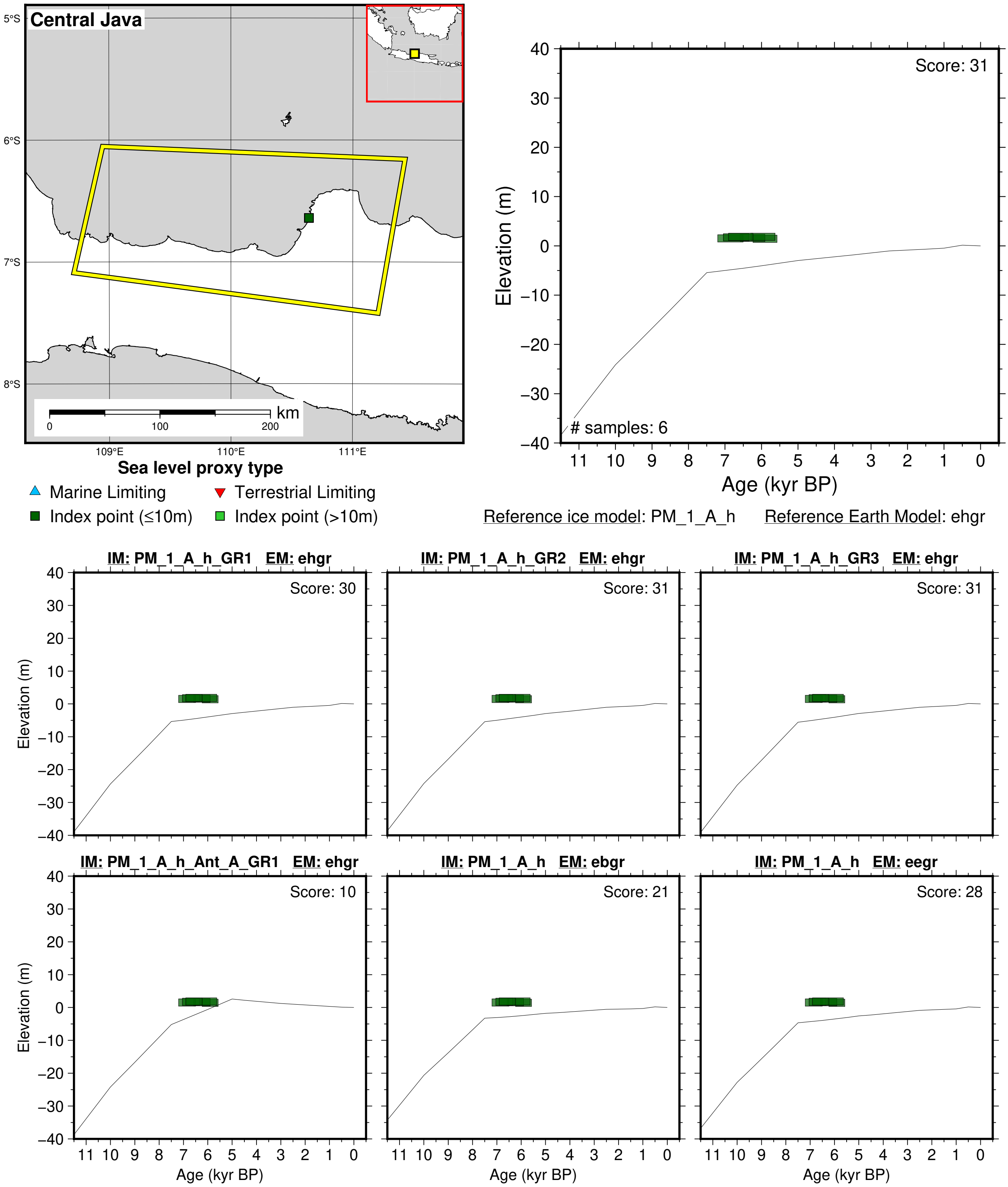

Figure 268: Paleo-sea level and comparison of six models for subregion: Java Sea, location: Central Java. References: Azmy et al. (2010); Mann et al. (2019).

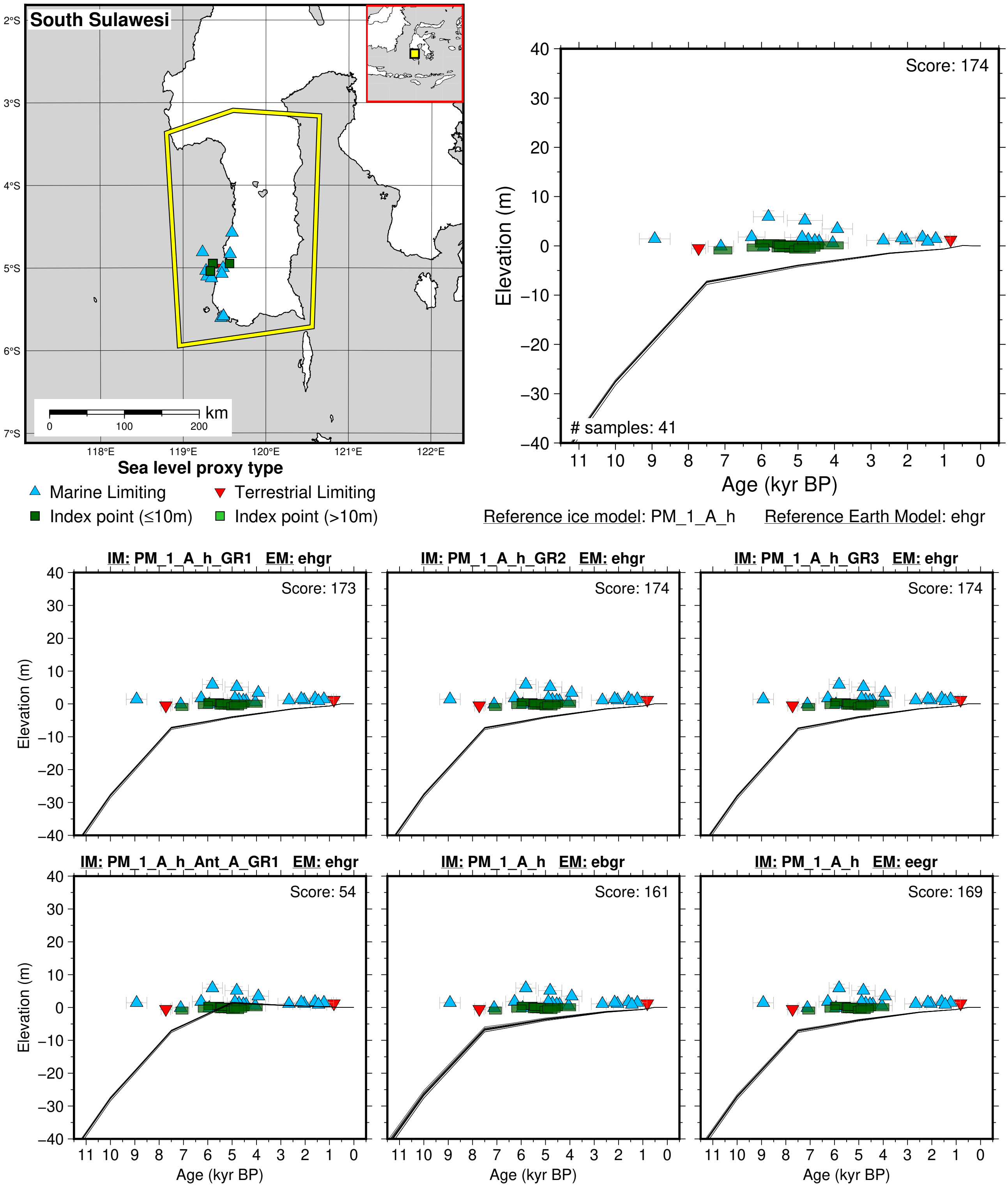

Figure 269: Paleo-sea level and comparison of six models for subregion: Java Sea, location: South Sulawesi. References: de Klerk (1982); Mann et al. (2016, 2019); Tjia et al. (1972).

6.13.2 Papua New Guinea

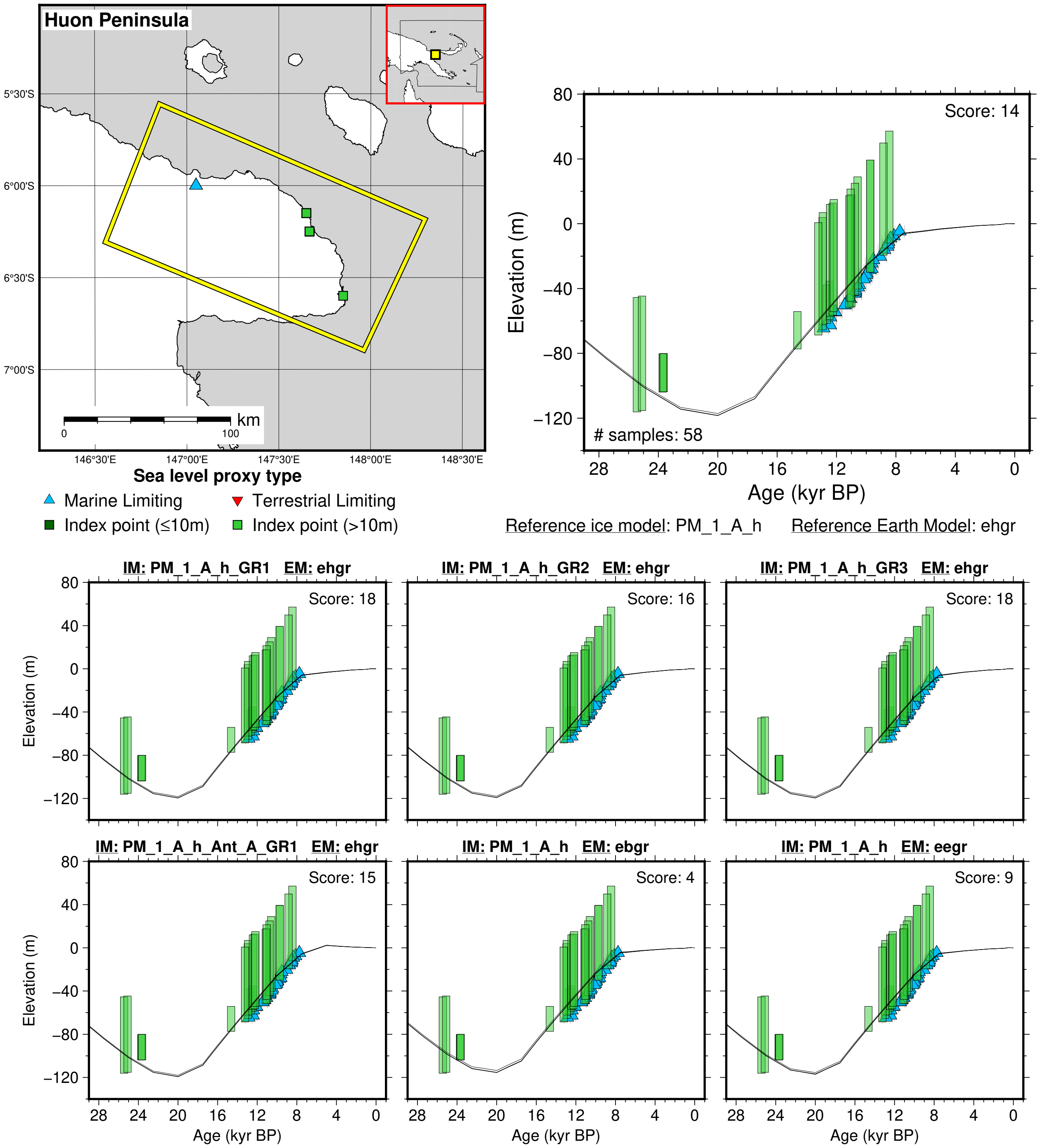

Figure 270: Paleo-sea level and comparison of six models for subregion: Papua New Guinea, location: Huon Peninsula. References: Chappell and Polach (1991); Cutler et al. (2003); Edwards et al. (1993); Hibbert et al. (2016); Mann et al. (2019).

6.13.3 South China Sea

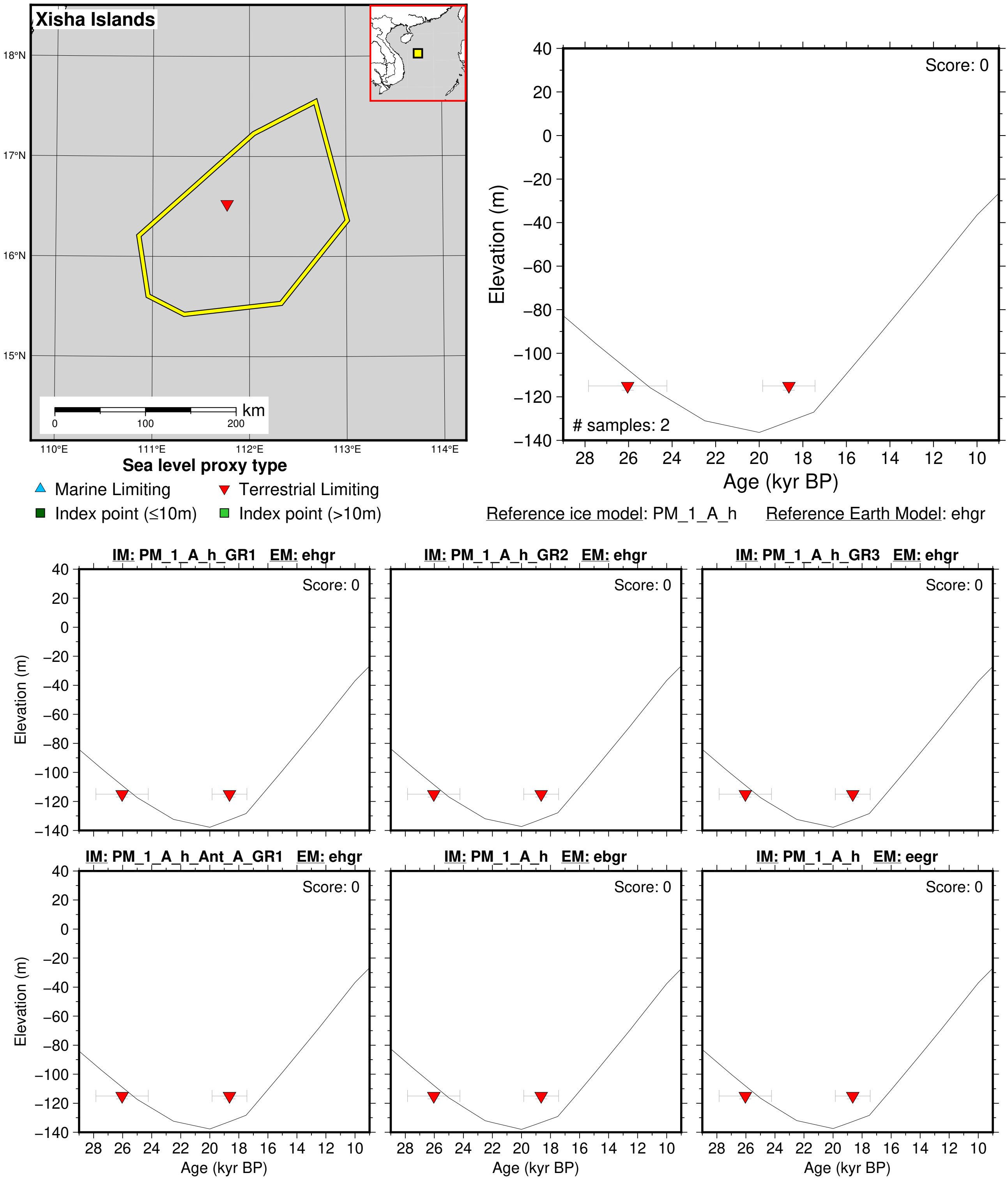

Figure 271: Paleo-sea level and comparison of six models for subregion: South China Sea, location: Xisha Islands. References: Yu et al. (2022).

6.13.4 Sundaland

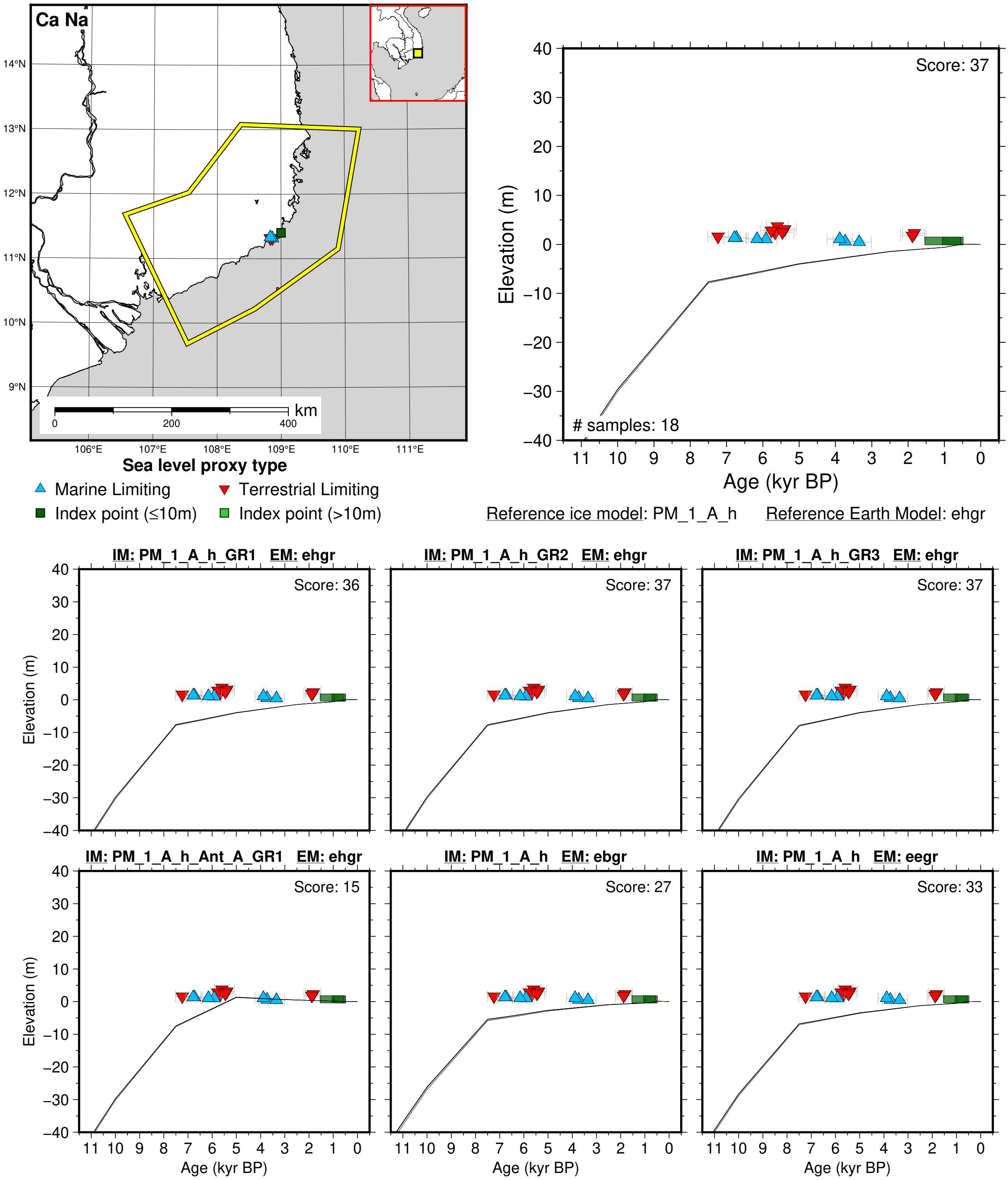

Figure 272: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Ca Na. References: Mann et al. (2019); Stattegger et al. (2013).

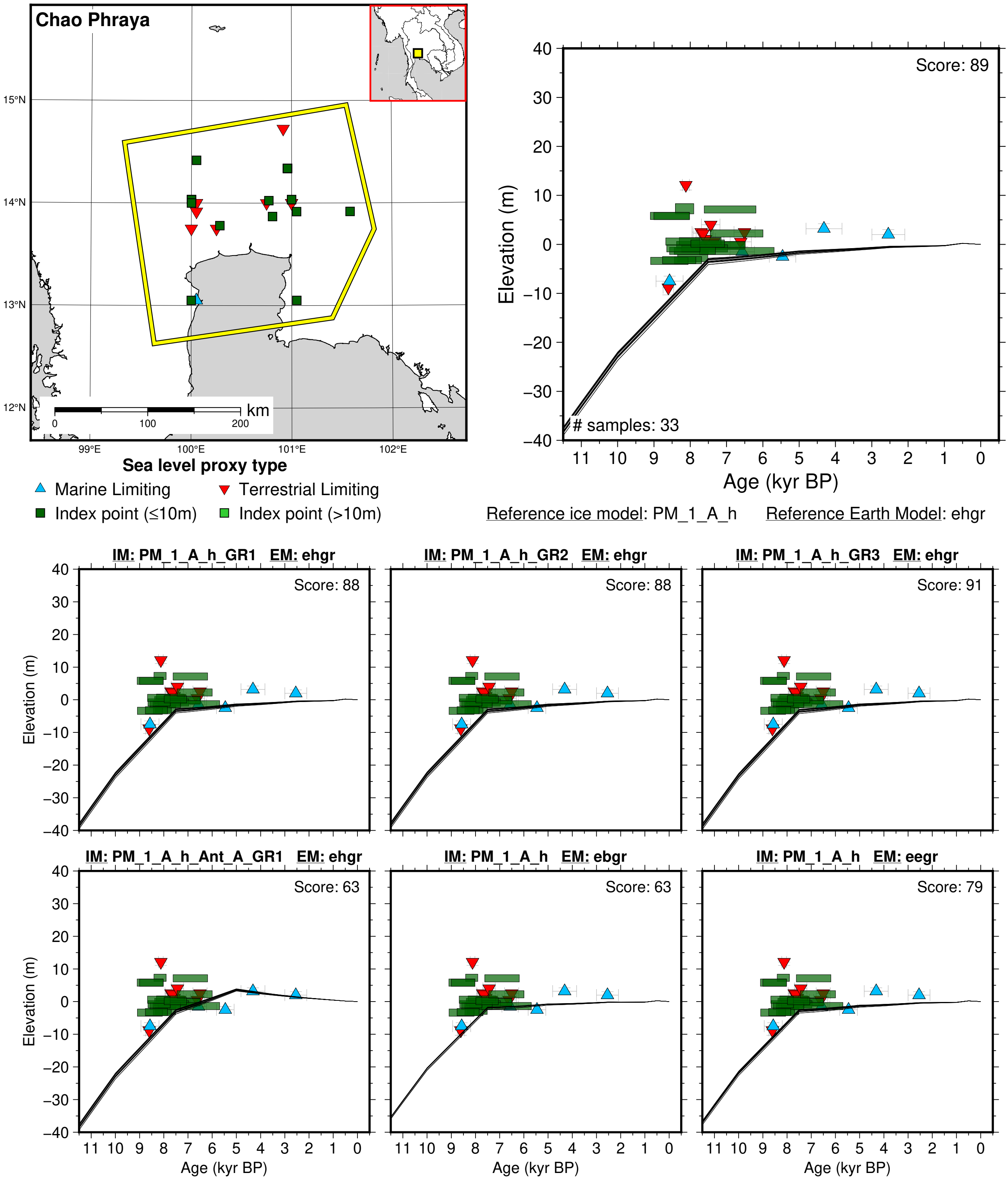

Figure 273: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Chao Phraya. References: Horton et al. (2005); Mann et al. (2019); Sinsakul (1992); Somboon (1988); Somboon and Thiramongkol (1992).

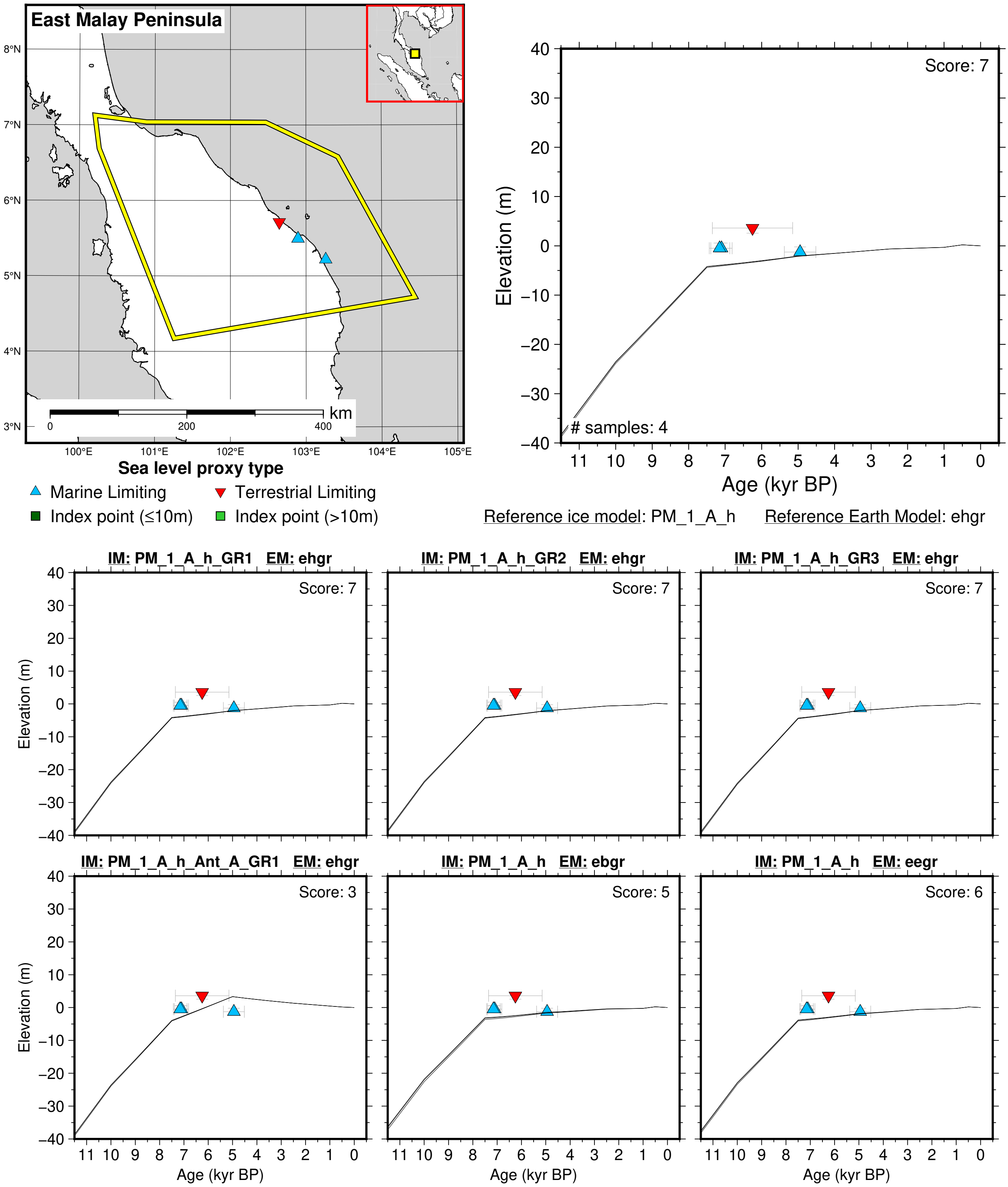

Figure 274: Paleo-sea level and comparison of six models for subregion: Sundaland, location: East Malay Peninsula. References: Mann et al. (2019); Parham et al. (2014); Tjia and Fujii (1992).

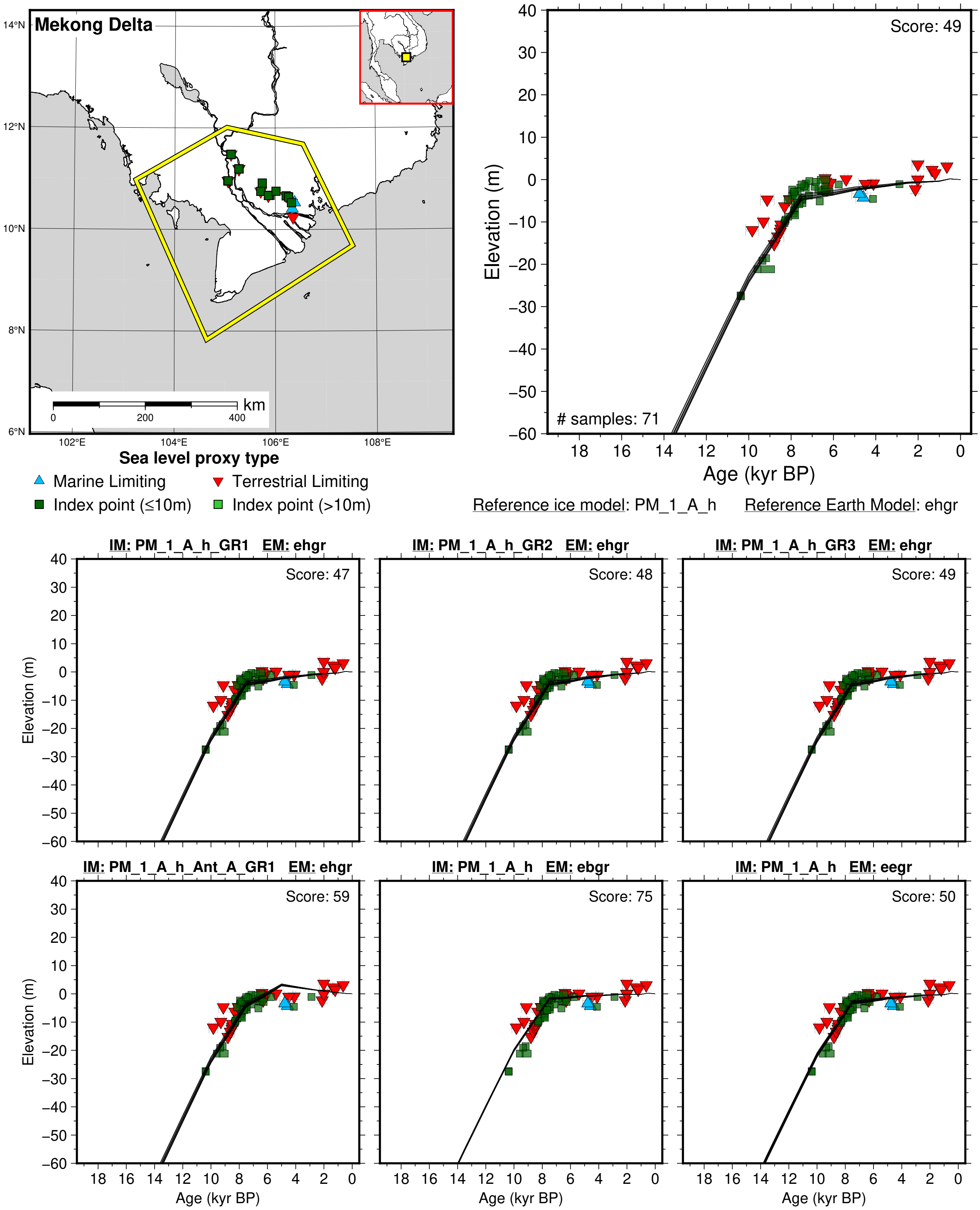

Figure 275: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Mekong Delta. References: Hanebuth et al. (2012); Mann et al. (2019); Stattegger et al. (2013); Tamura et al. (2007, 2009).

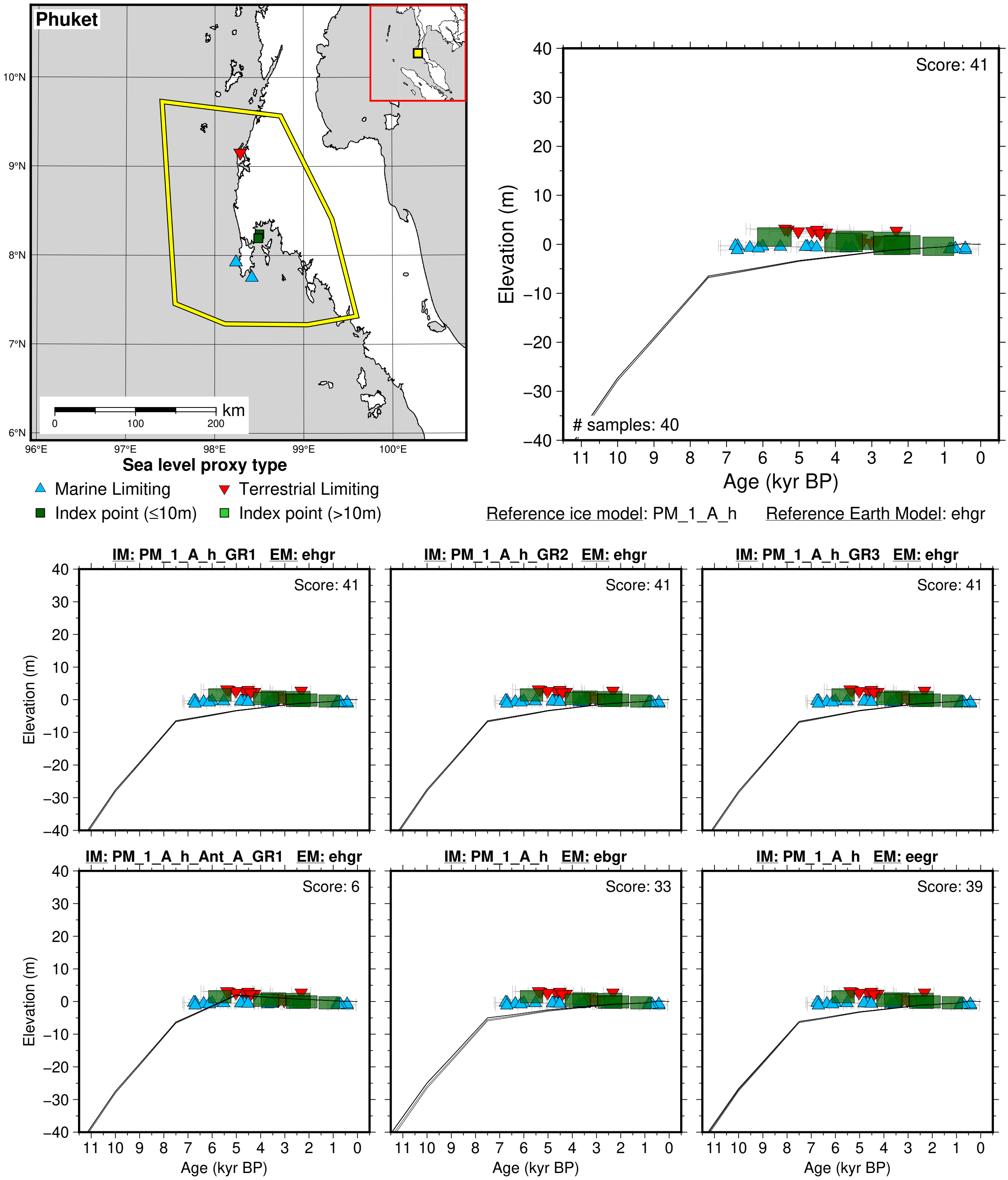

Figure 276: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Phuket. References: Mann et al. (2019); Scheffers et al. (2012); Scoffin and Le Tissier (1998).

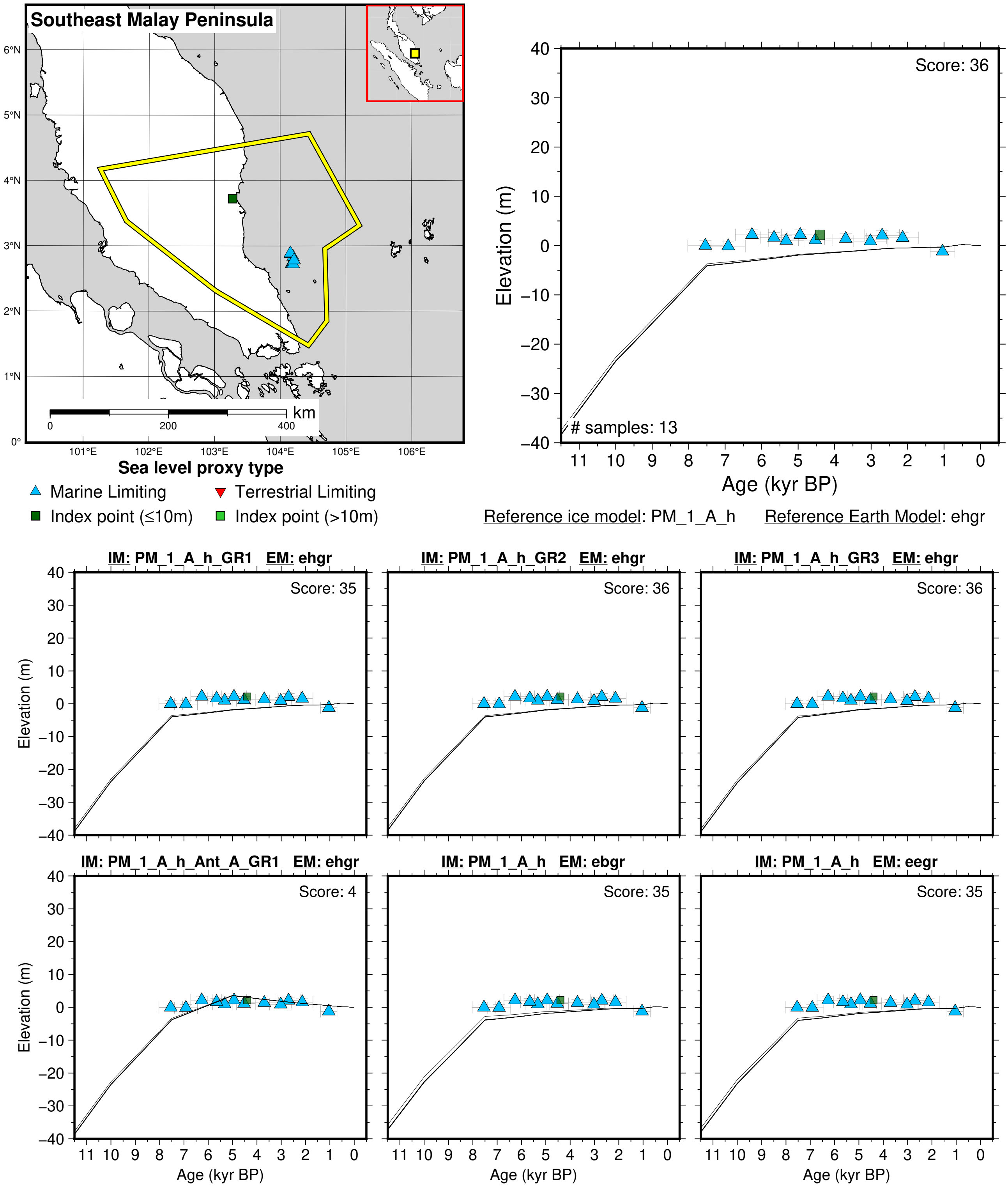

Figure 277: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Southeast Malay Peninsula. References: Hassan (2001); Horton et al. (2005); Mann et al. (2019); Tjia and Fujii (1992); Tjia et al. (1983).

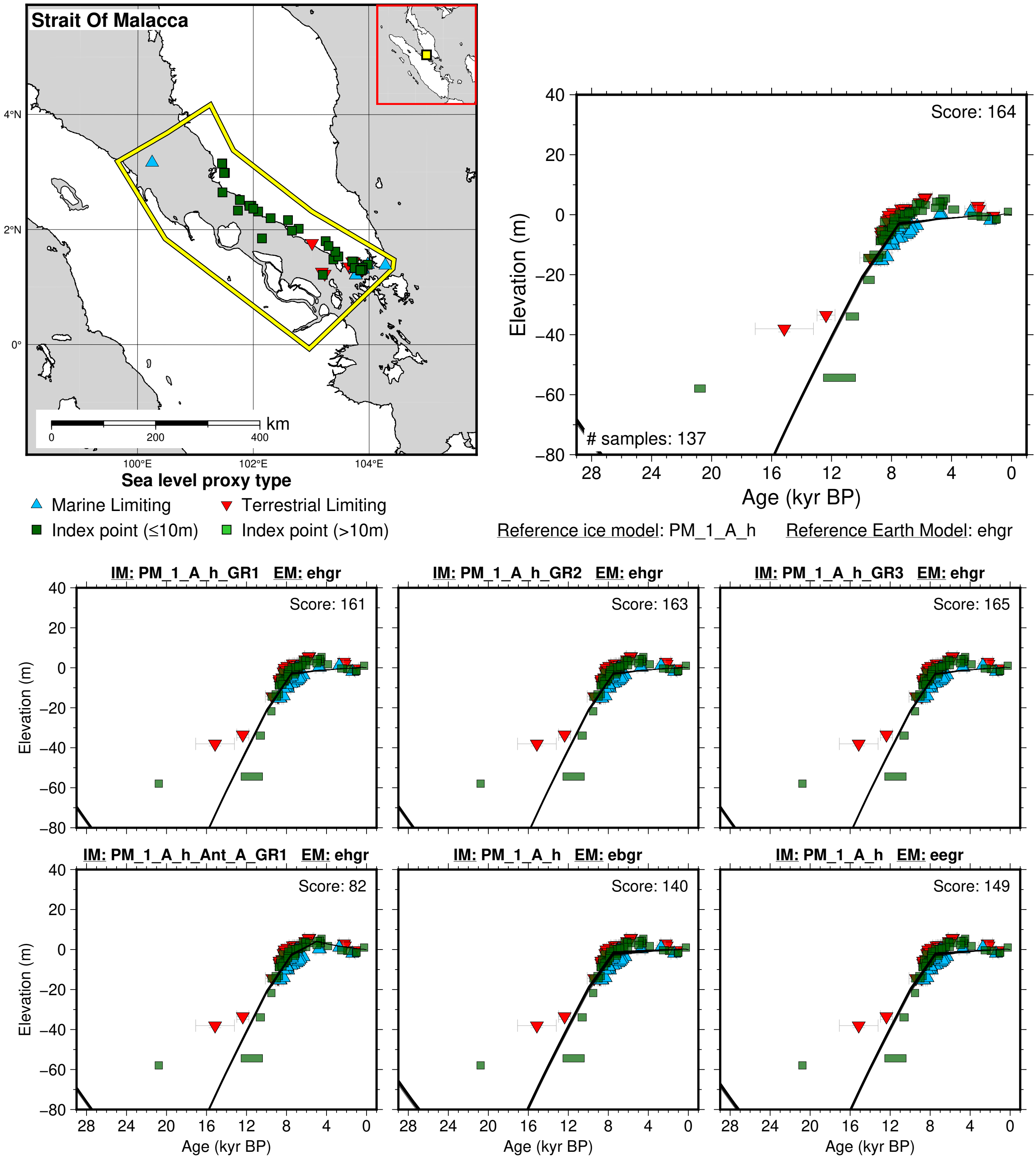

Figure 278: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Strait Of Malacca. References: Bird et al. (2007, 2010); Geyh et al. (1979); Hassan (2001); Hesp et al. (1998); Horton et al. (2005); Mann et al. (2019); Tjia and Fujii (1992).

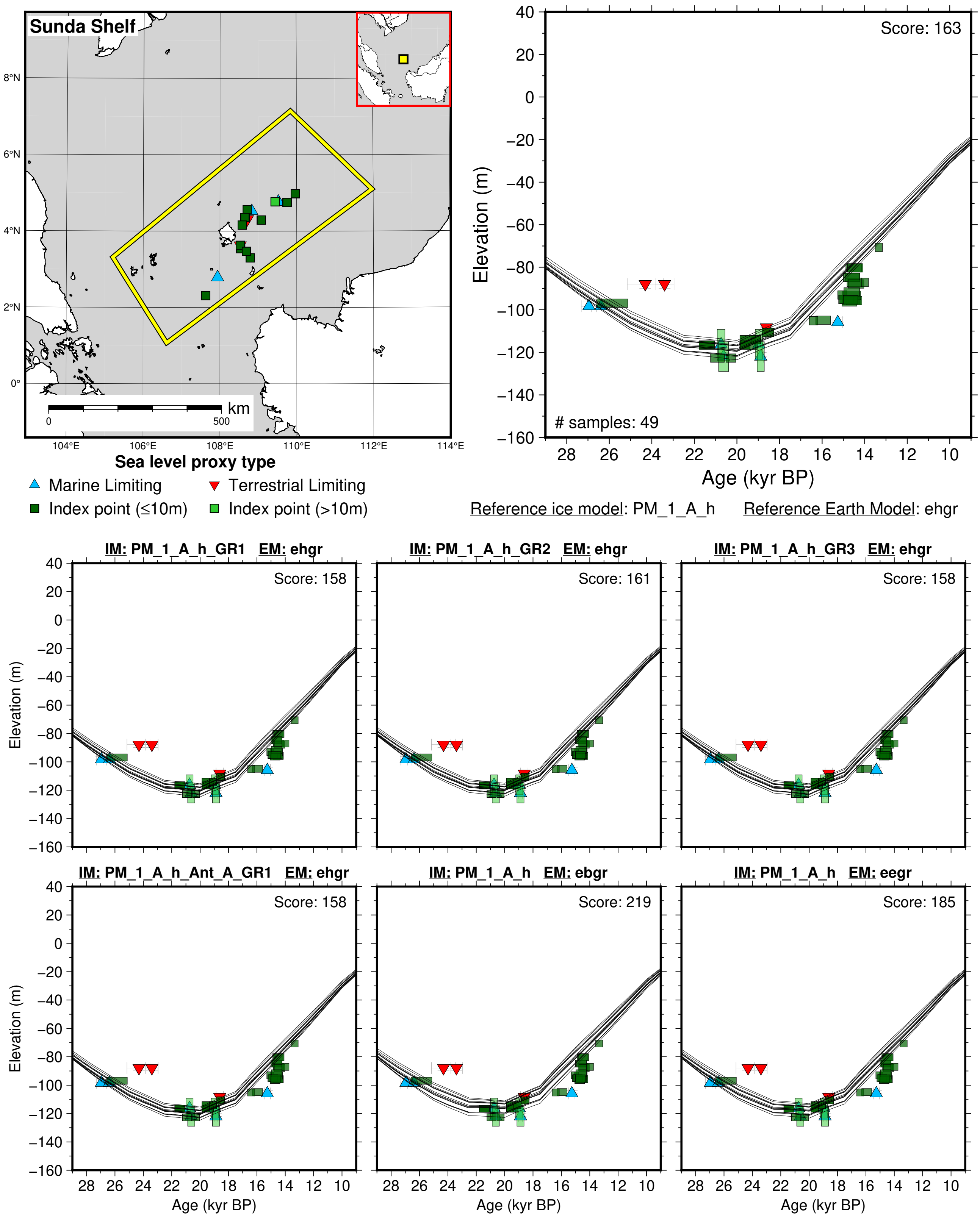

Figure 279: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Sunda Shelf. References: Hanebuth et al. (2000, 2003, 2009).

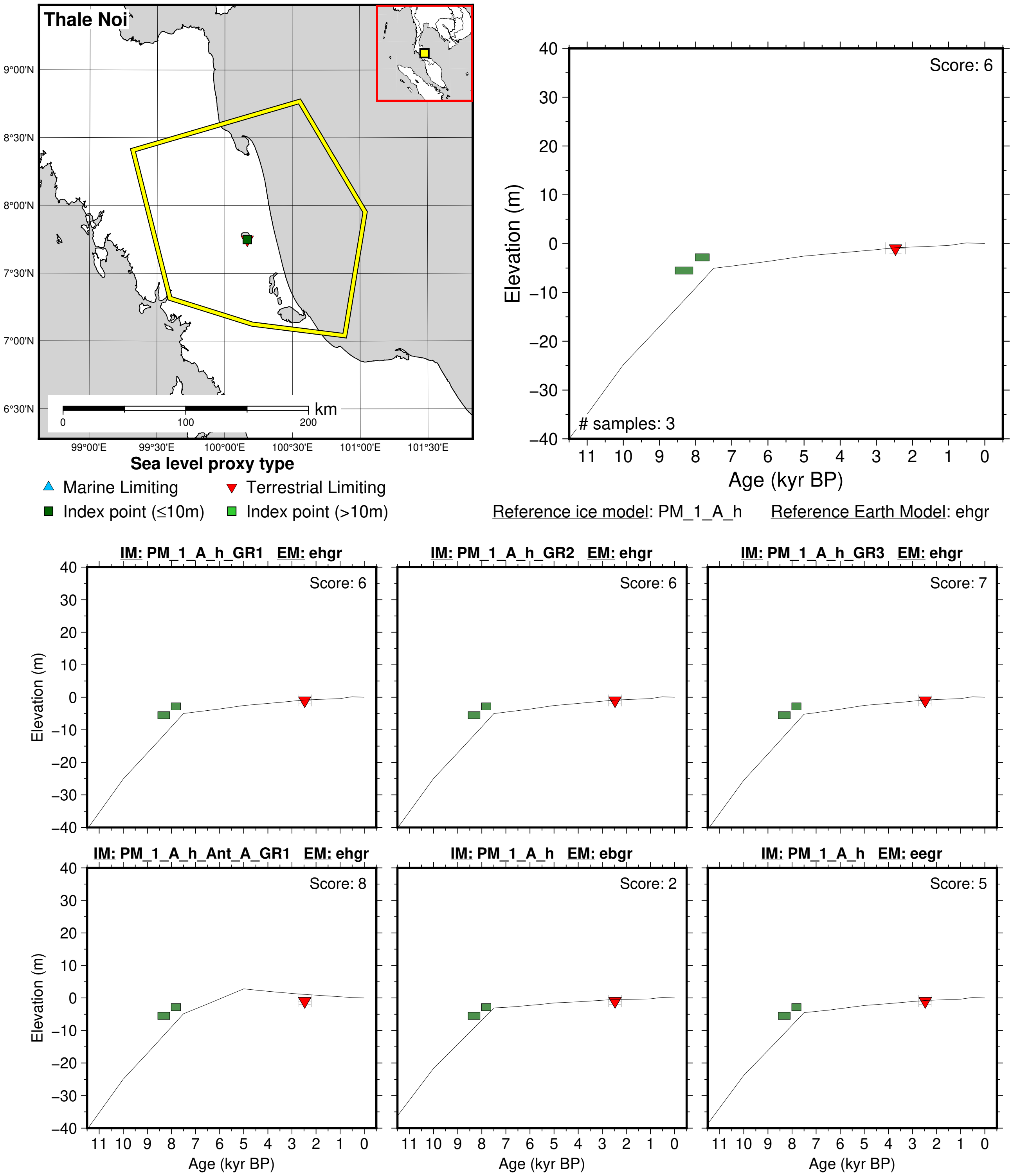

Figure 280: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Thale Noi. References: Horton et al. (2005); Mann et al. (2019).

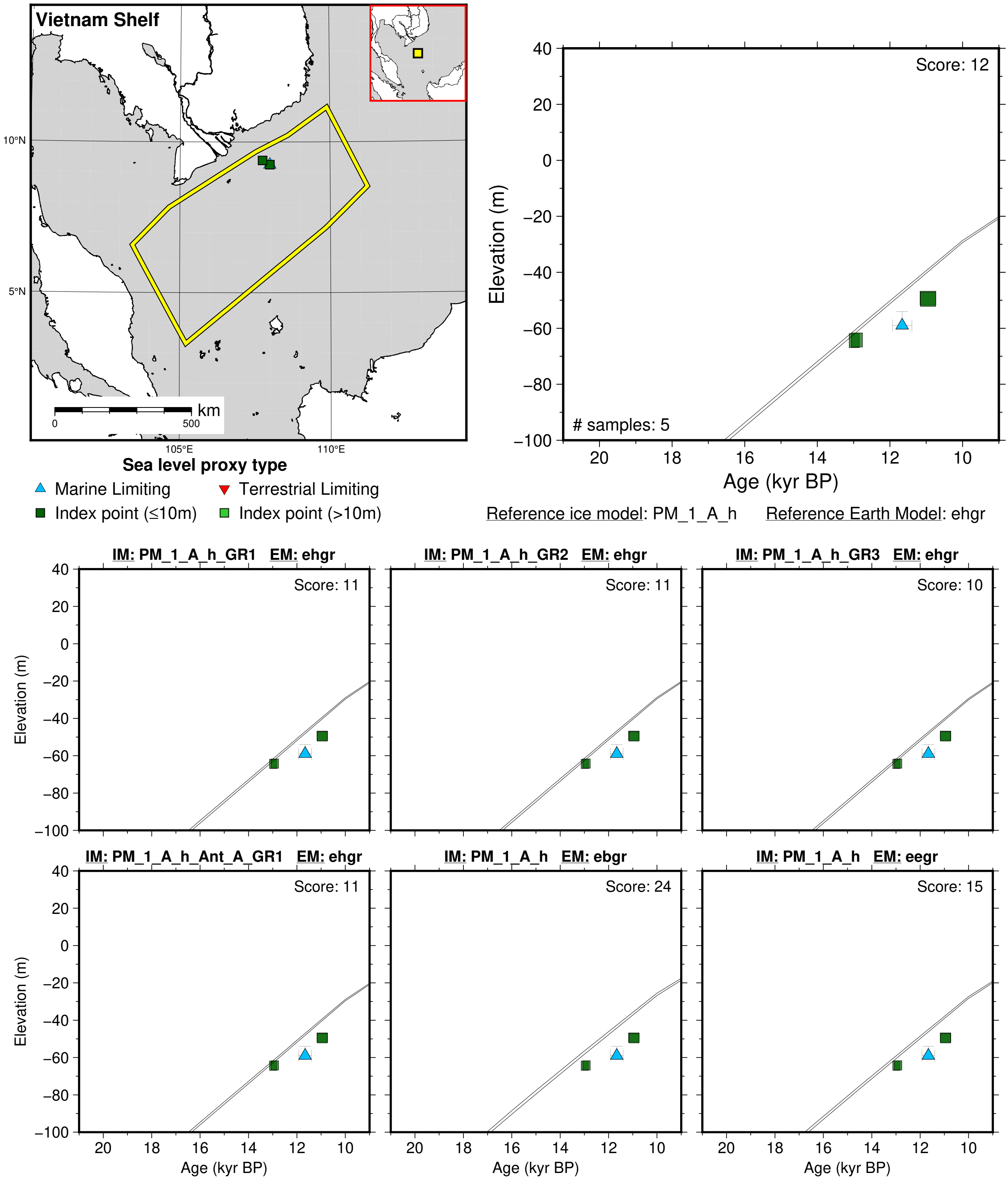

Figure 281: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Vietnam Shelf. References: Hanebuth et al. (2000).

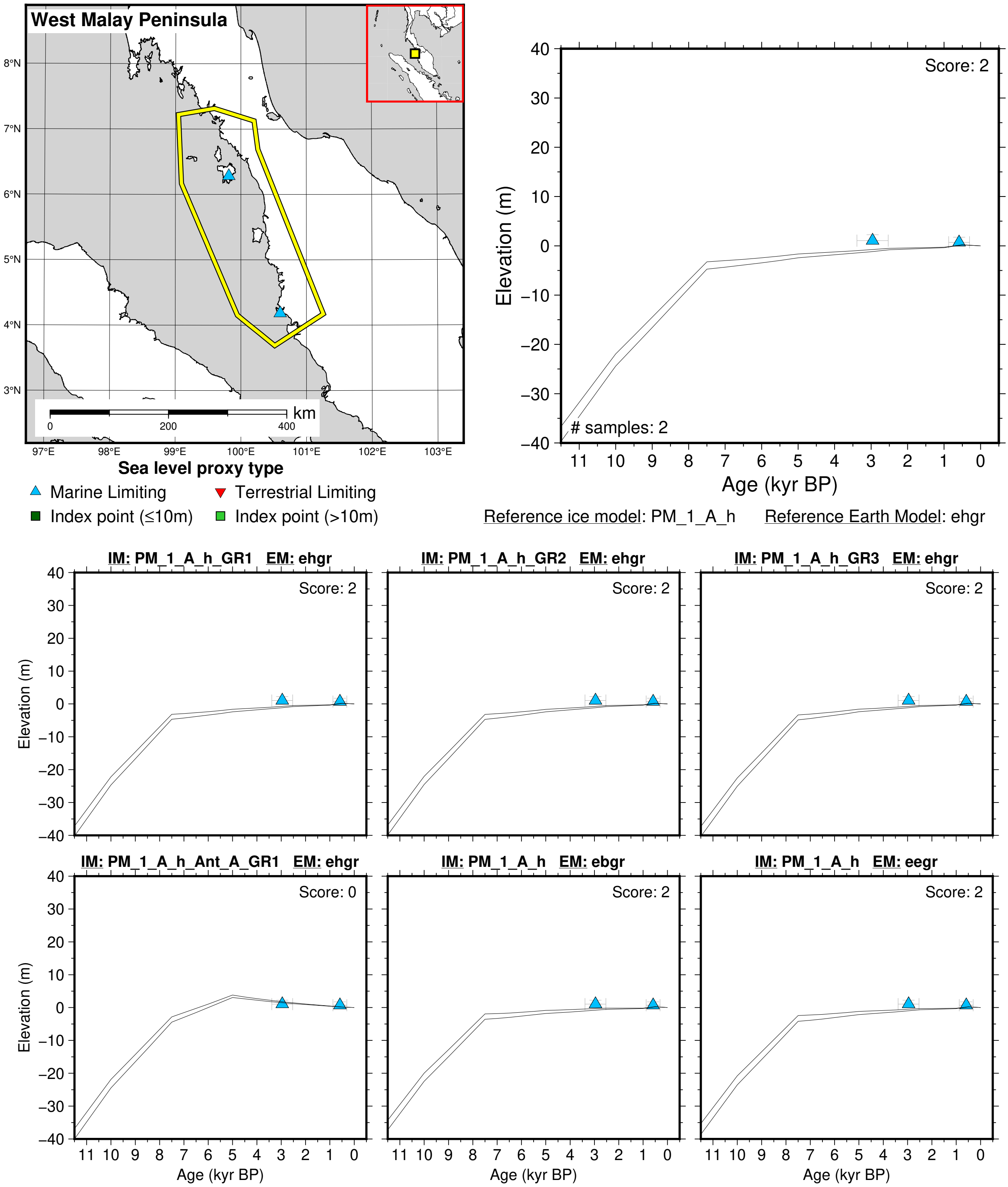

Figure 282: Paleo-sea level and comparison of six models for subregion: Sundaland, location: West Malay Peninsula. References: Mann et al. (2019); Tjia and Fujii (1992); Tjia et al. (1972).

7 MIS 3 and 4 – Sea level Indicators and Proxies

MIS 3 is an interstadial period that stretches between about 55 and 27 kyr before present. MIS 4 is a glacial period when the ice sheets significantly expanded in North America and Europe, between about 70 and 55 kyr. There are few sea level proxies from this time interval for three main reasons. First, such deposits are hard to date, because the material is near or beyond the limits of radiocarbon dating. Second, the geological evidence in many areas was eroded by the subsequent rise in sea level during the MIS 1 and 2 deglaciation. As a result, many of the proxies are only preserved in places where there is a substantial tectonic uplift rate. Third, relative sea level during MIS 3 and 4 likely never exceeded -30 m, so the deposits are likely below the depth limit of most coring survey methods.

7.1 Antarctica

7.1.1 East Antarctica

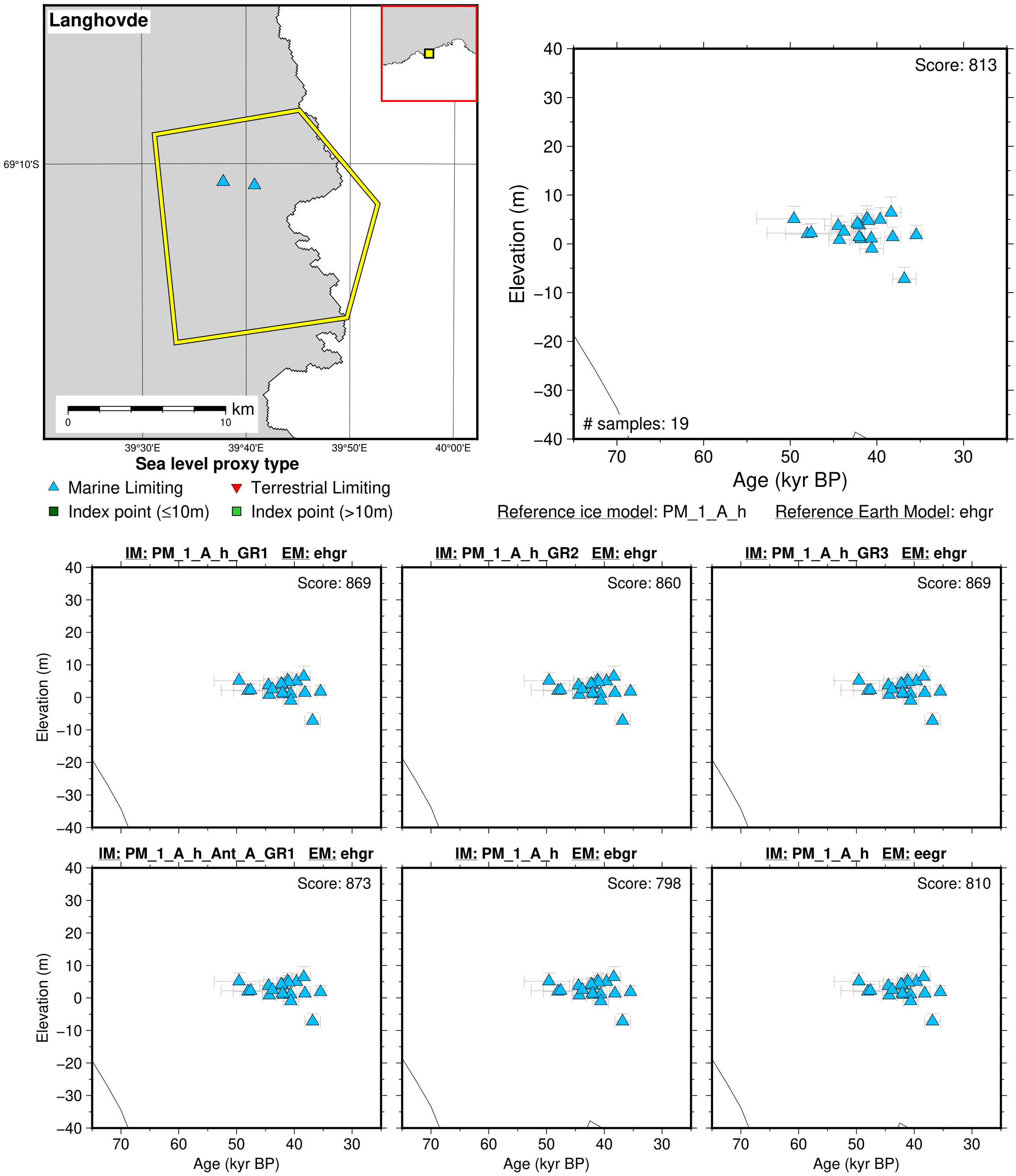

Figure 283: Paleo-sea level and comparison of six models for subregion: East Antarctica, location: Langhovde. References: Igarashi et al. (1995a,b); Ishiwa et al. (2021); Maemoku et al. (1997); Miura et al. (1998).

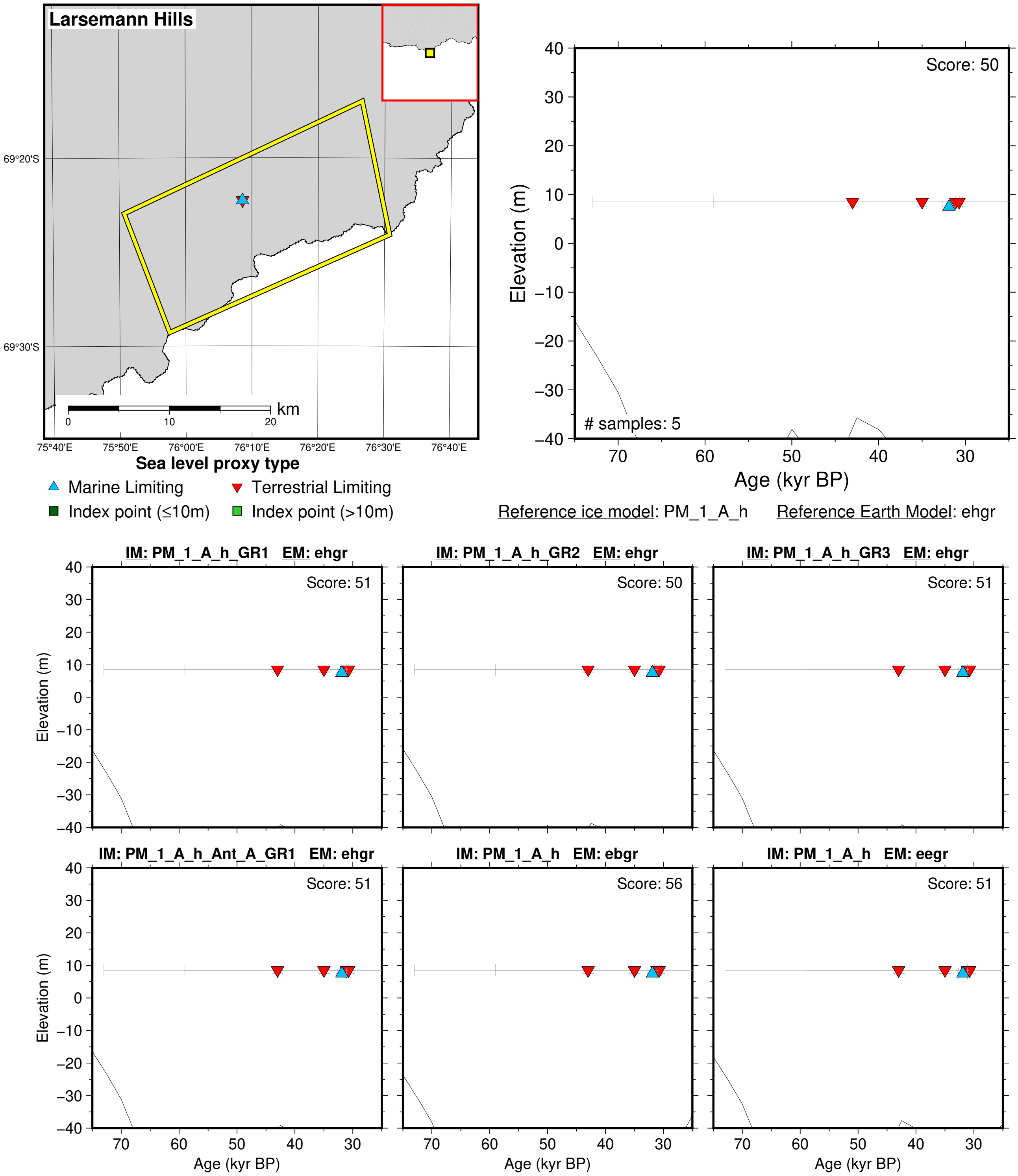

Figure 284: Paleo-sea level and comparison of six models for subregion: East Antarctica, location: Larsemann Hills. References: Hodgson et al. (2009); Ishiwa et al. (2021).

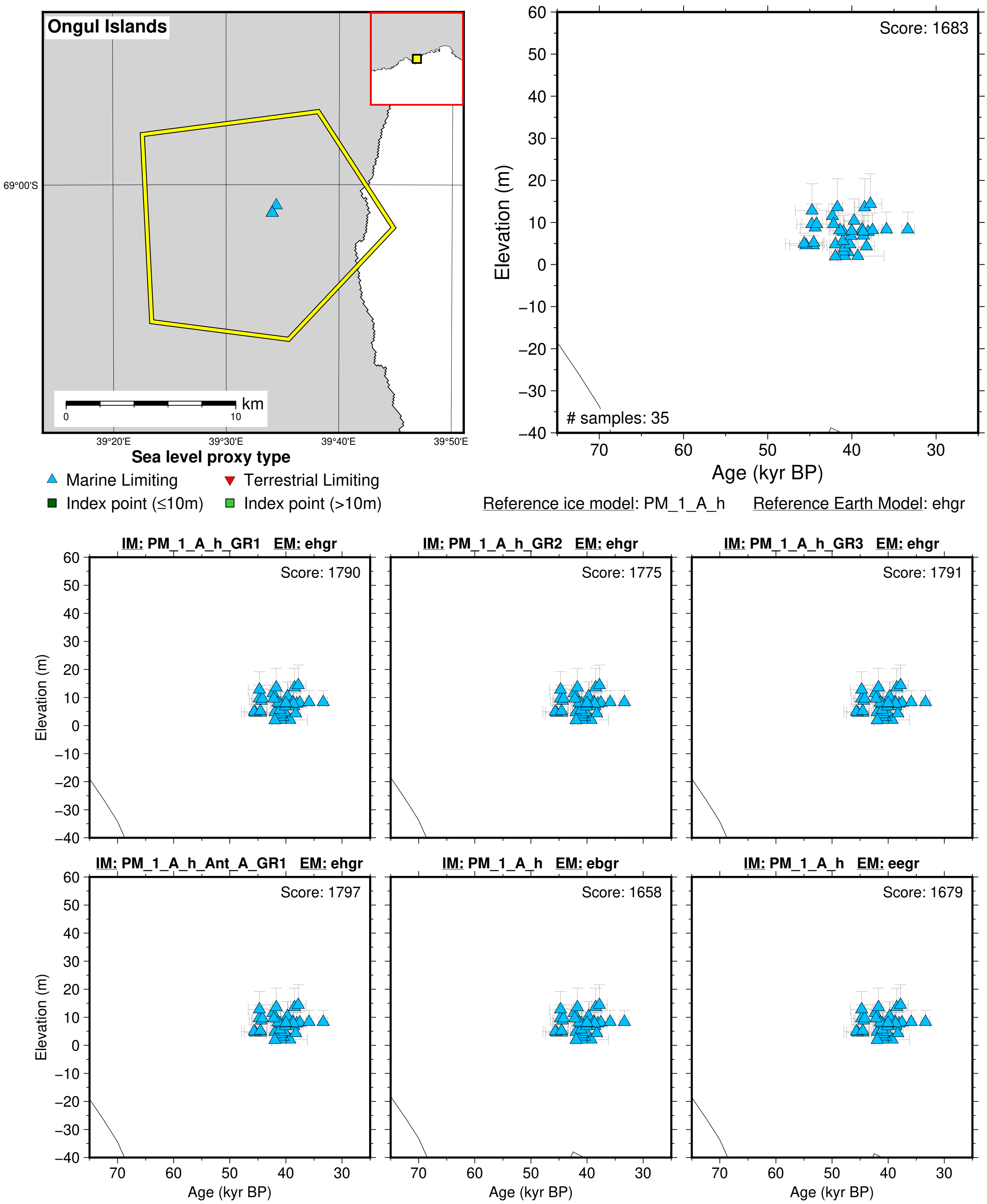

Figure 285: Paleo-sea level and comparison of six models for subregion: East Antarctica, location: Ongul Islands. References: Hirakawa and Sawagaki (1998); Igarashi et al. (1995a,b); Ishiwa et al. (2021); Miura et al. (1998).

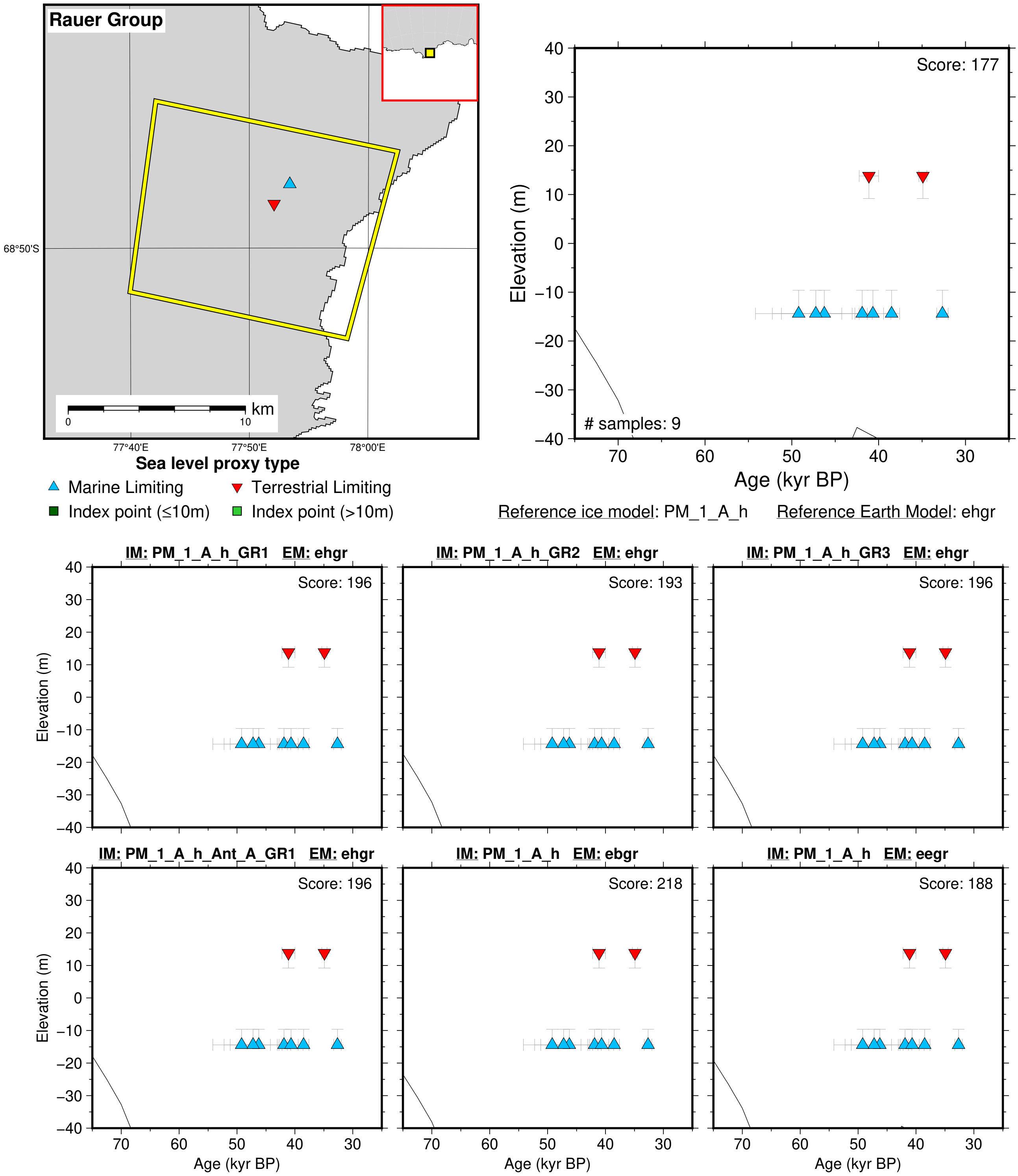

Figure 286: Paleo-sea level and comparison of six models for subregion: East Antarctica, location: Rauer Group. References: Berg et al. (2010a, 2016); Ishiwa et al. (2021).

7.2 Australia

7.2.1 Northern Australia

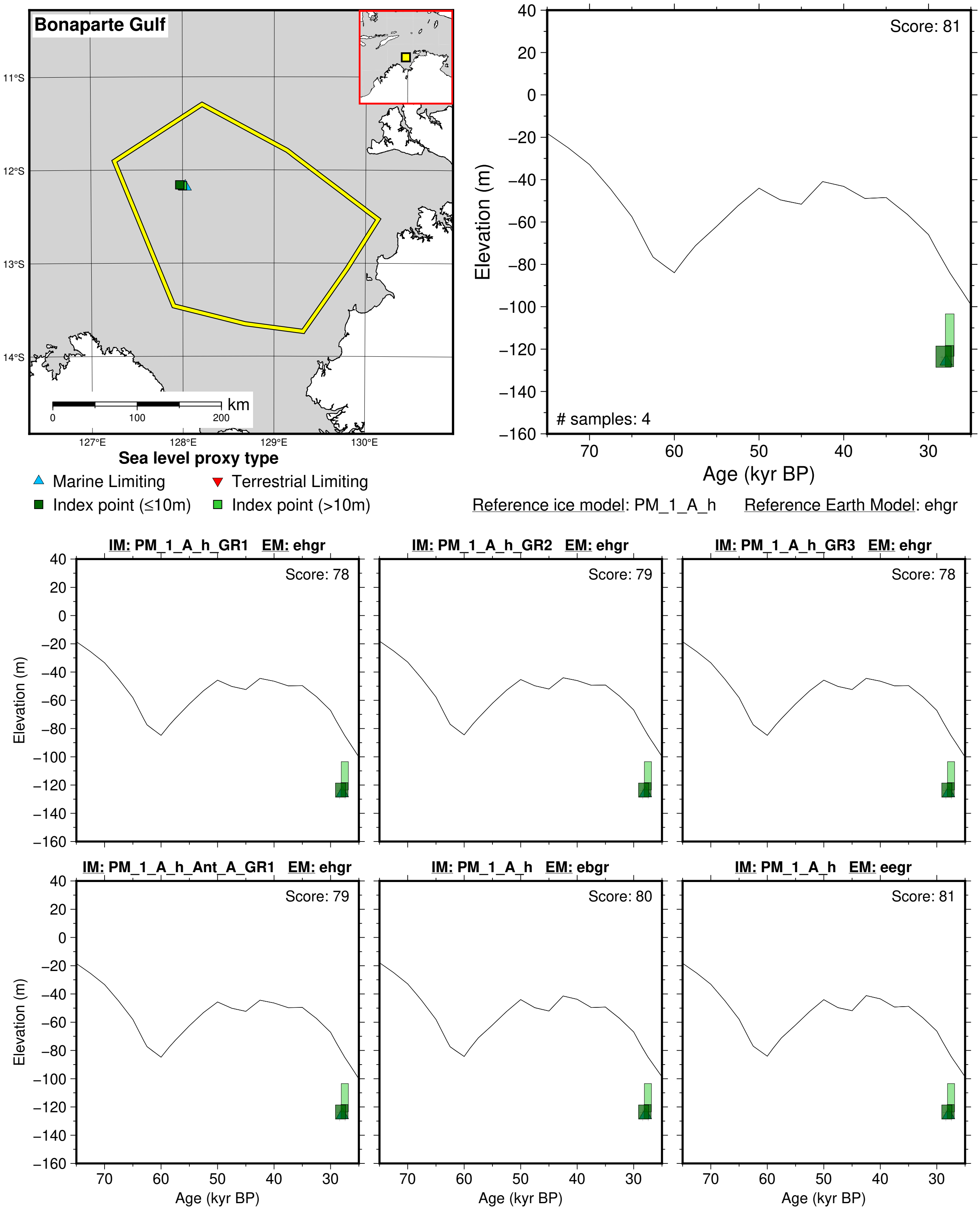

Figure 287: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: Bonaparte Gulf. References: Ishiwa et al. (2019); Yokoyama et al. (2000).

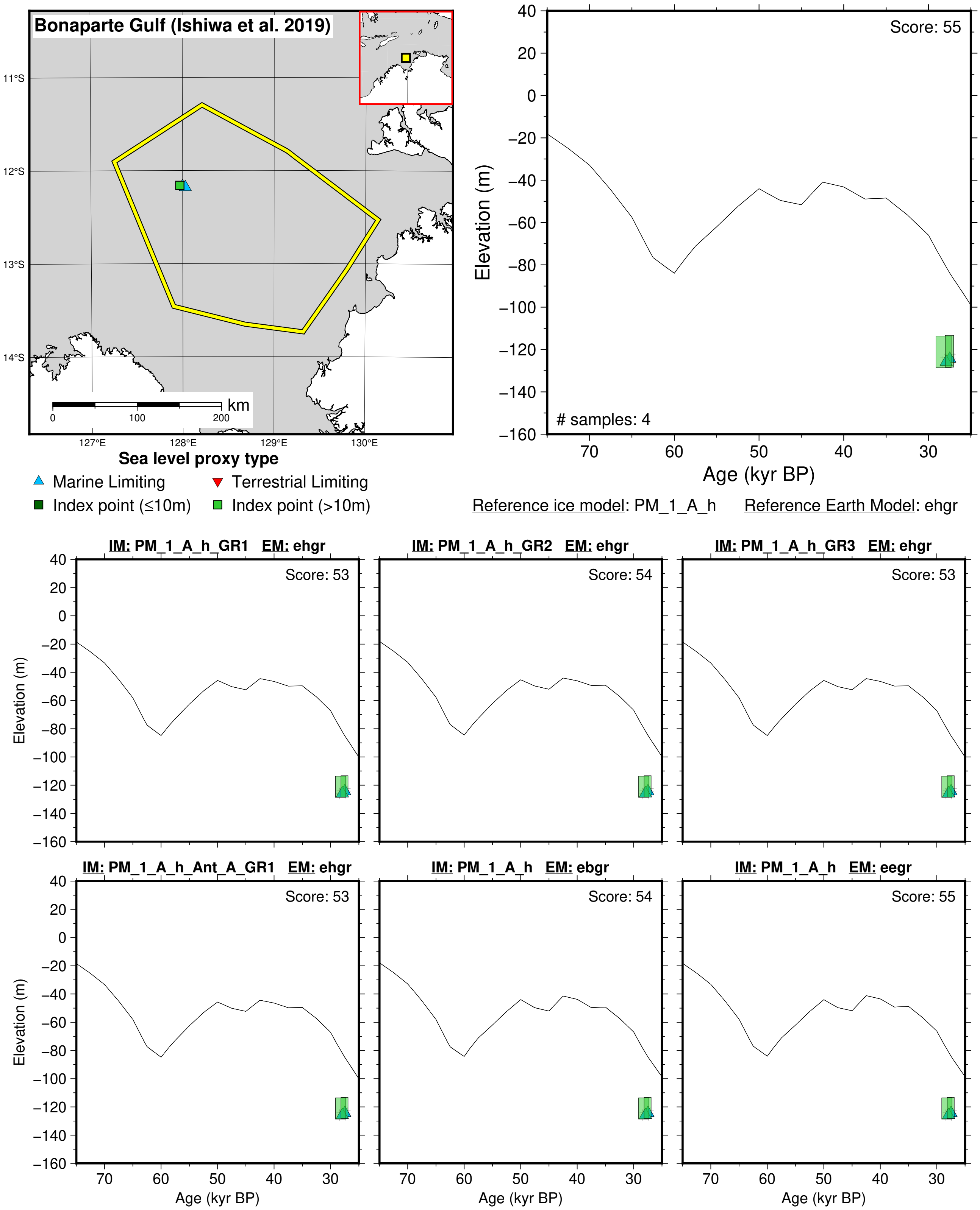

Figure 288: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: Bonaparte Gulf (Ishiwa *et al.* 2019 interpretation). References: Ishiwa et al. (2019); Yokoyama et al. (2000).

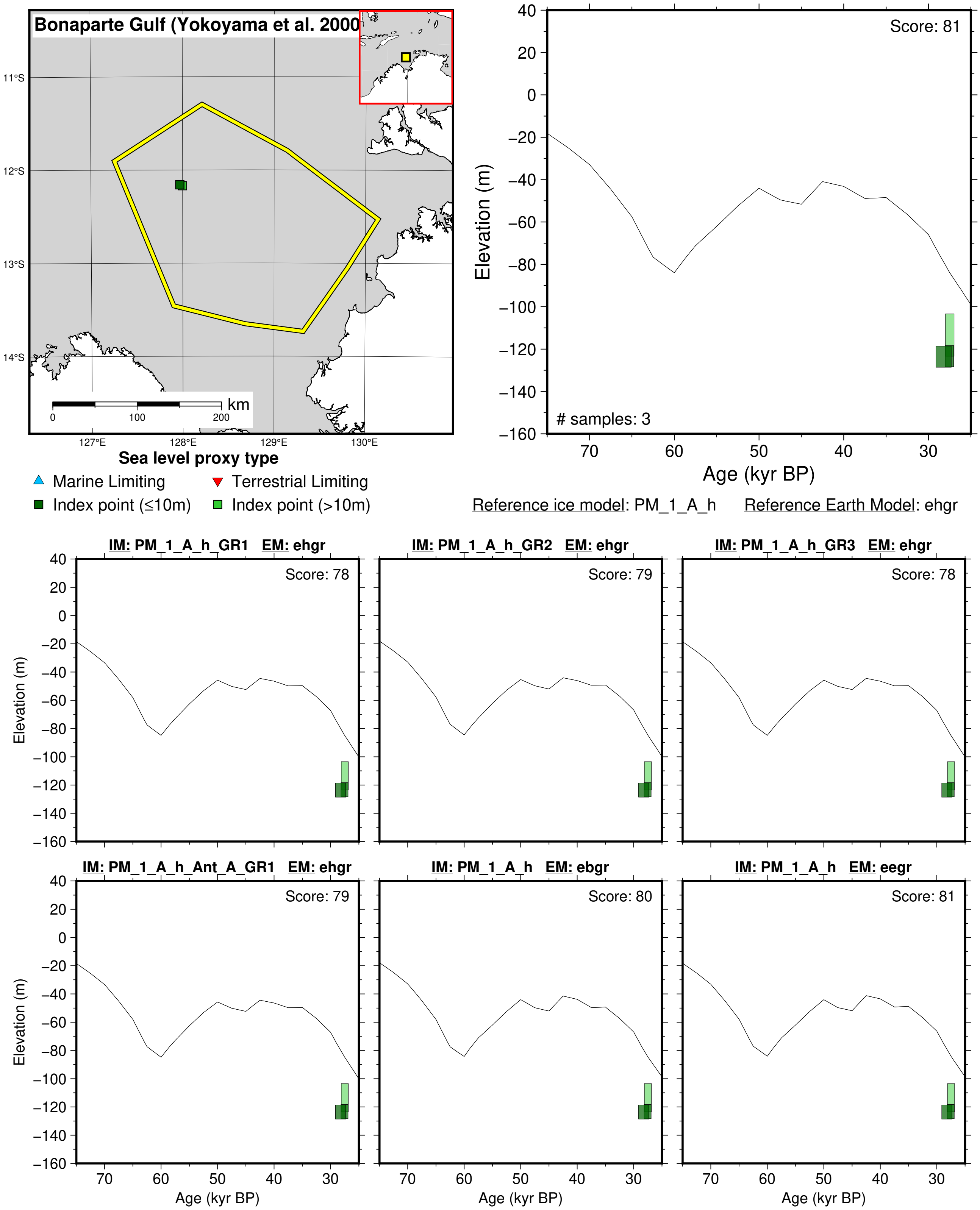

Figure 289: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: Bonaparte Gulf (Yokoyama *et al.* 2000 interpretation). References: Yokoyama et al. (2000).

7.2.2 Queensland

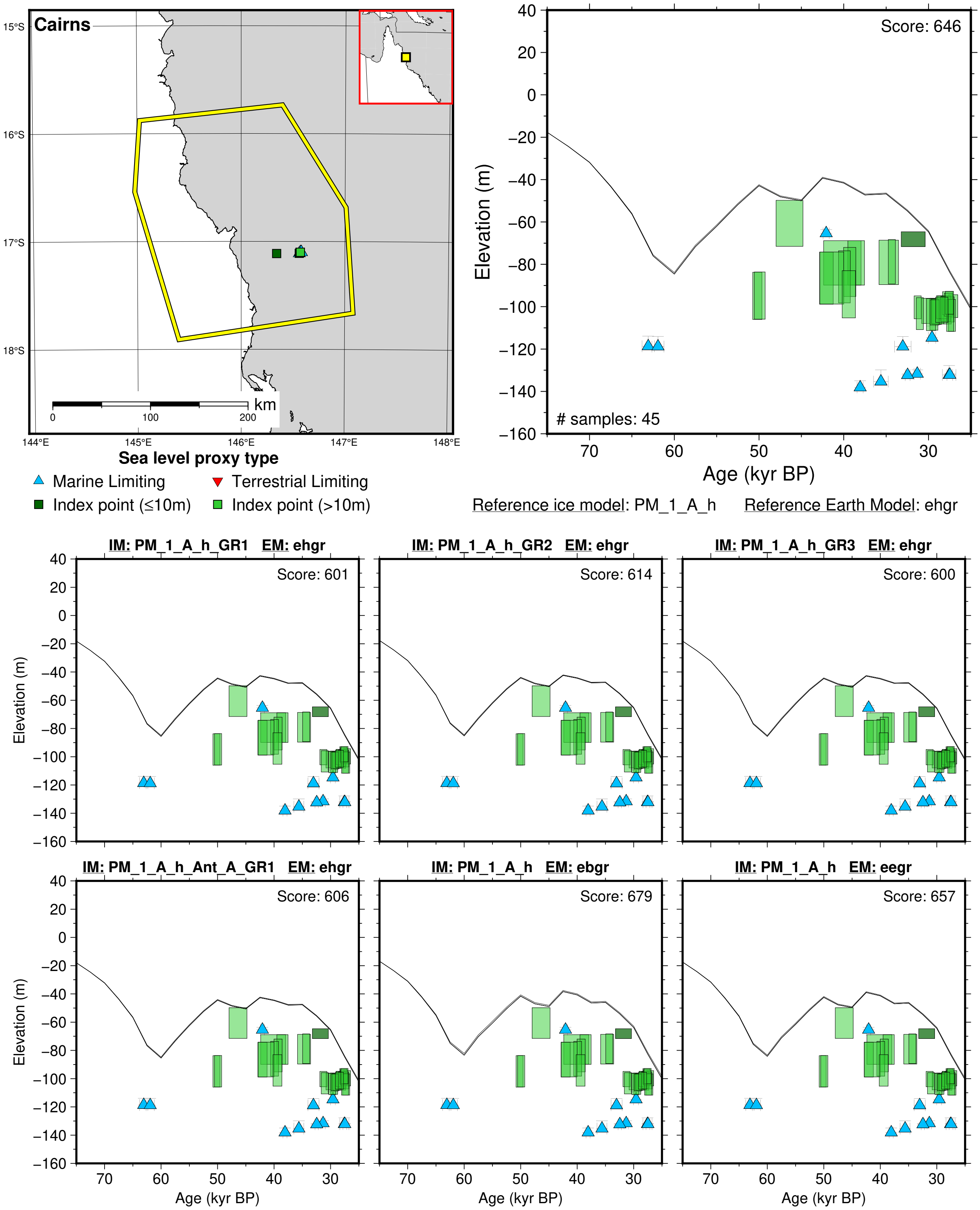

Figure 290: Paleo-sea level and comparison of six models for subregion: Queensland, location: Cairns. References: Larcombe et al. (1995); Lewis et al. (2013); Yokoyama et al. (2018).

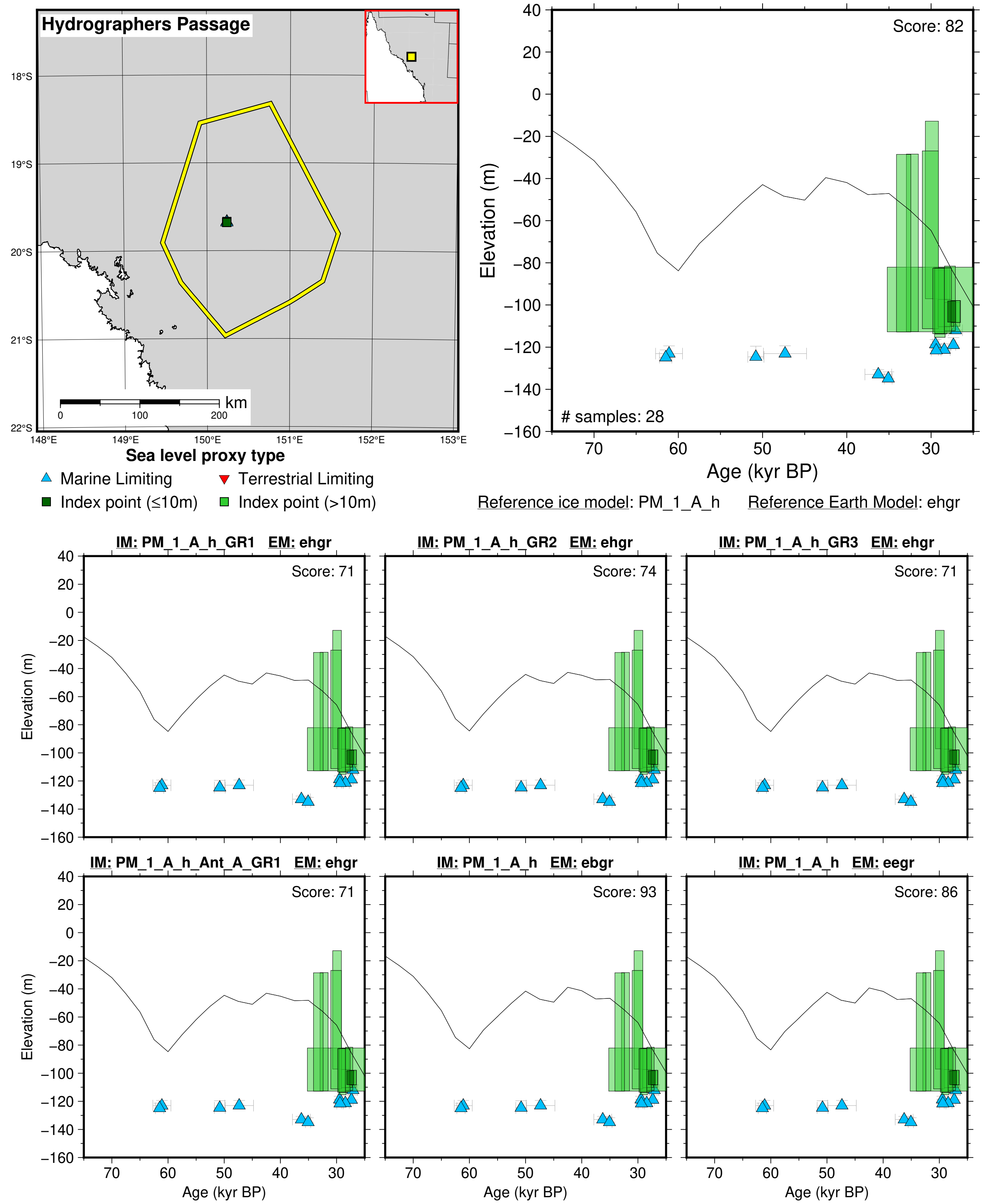

Figure 291: Paleo-sea level and comparison of six models for subregion: Queensland, location: Hydrographers Passage. References: Yokoyama et al. (2018).

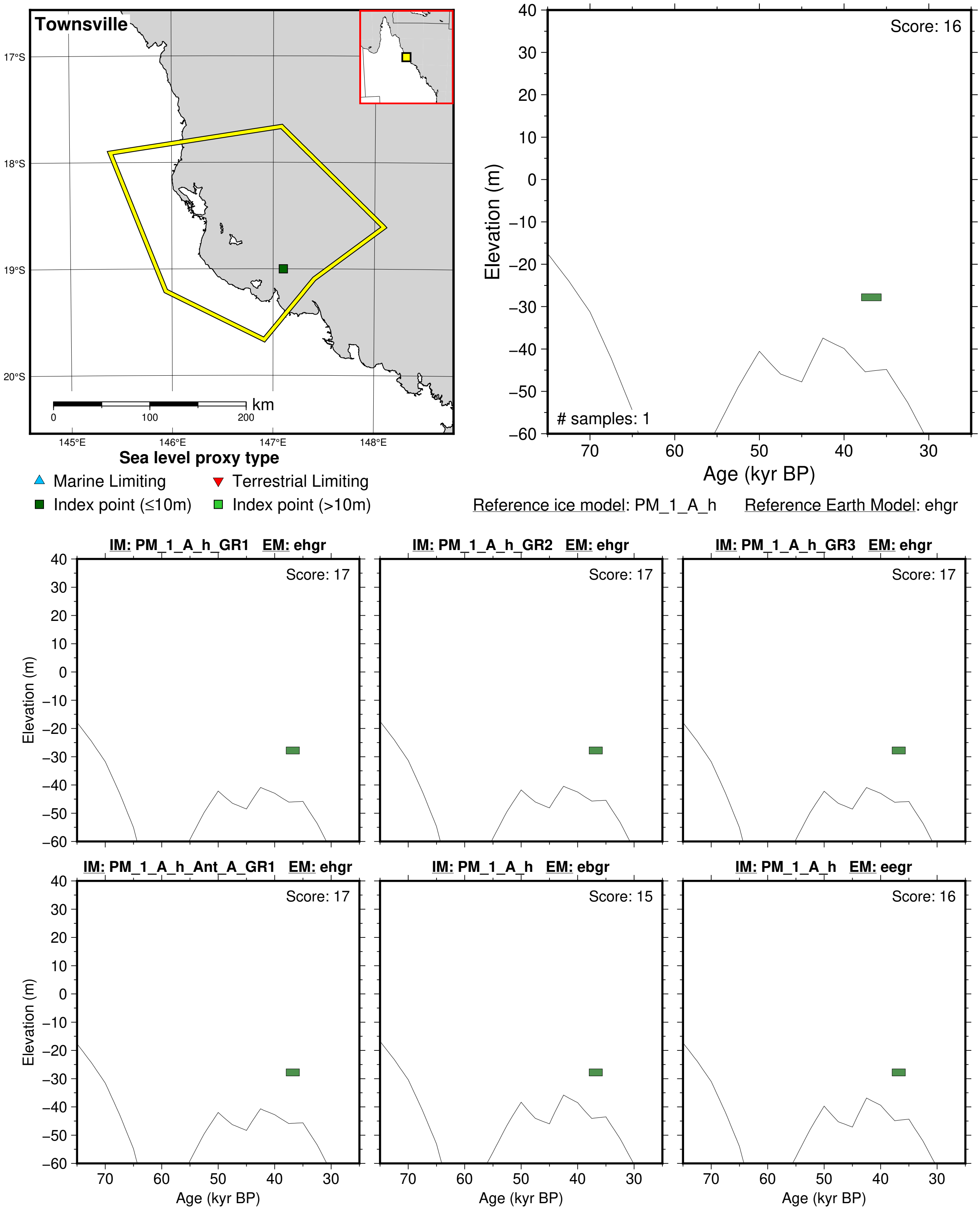

Figure 292: Paleo-sea level and comparison of six models for subregion: Queensland, location: Townsville. References: Larcombe et al. (1995); Lewis et al. (2013); Ohlenbusch (1991).

7.3 Caribbean

7.3.1 Lesser Antilles

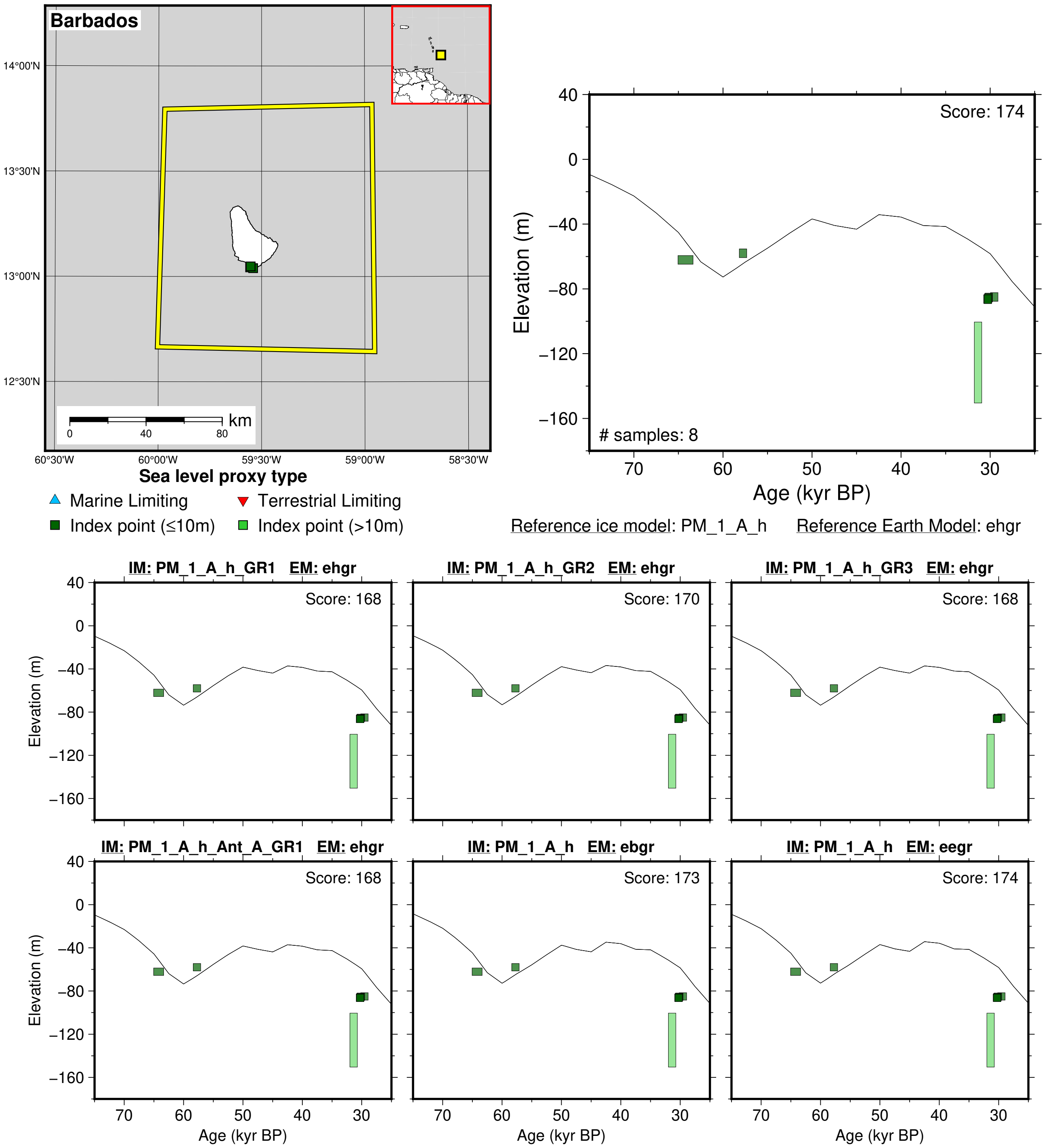

Figure 293: Paleo-sea level and comparison of six models for subregion: Lesser Antilles, location: Barbados. References: Abdul et al. (2016); Fairbanks (1988); Peltier and Fairbanks (2006).

7.4 East Asia

7.4.1 Ryukyu Islands

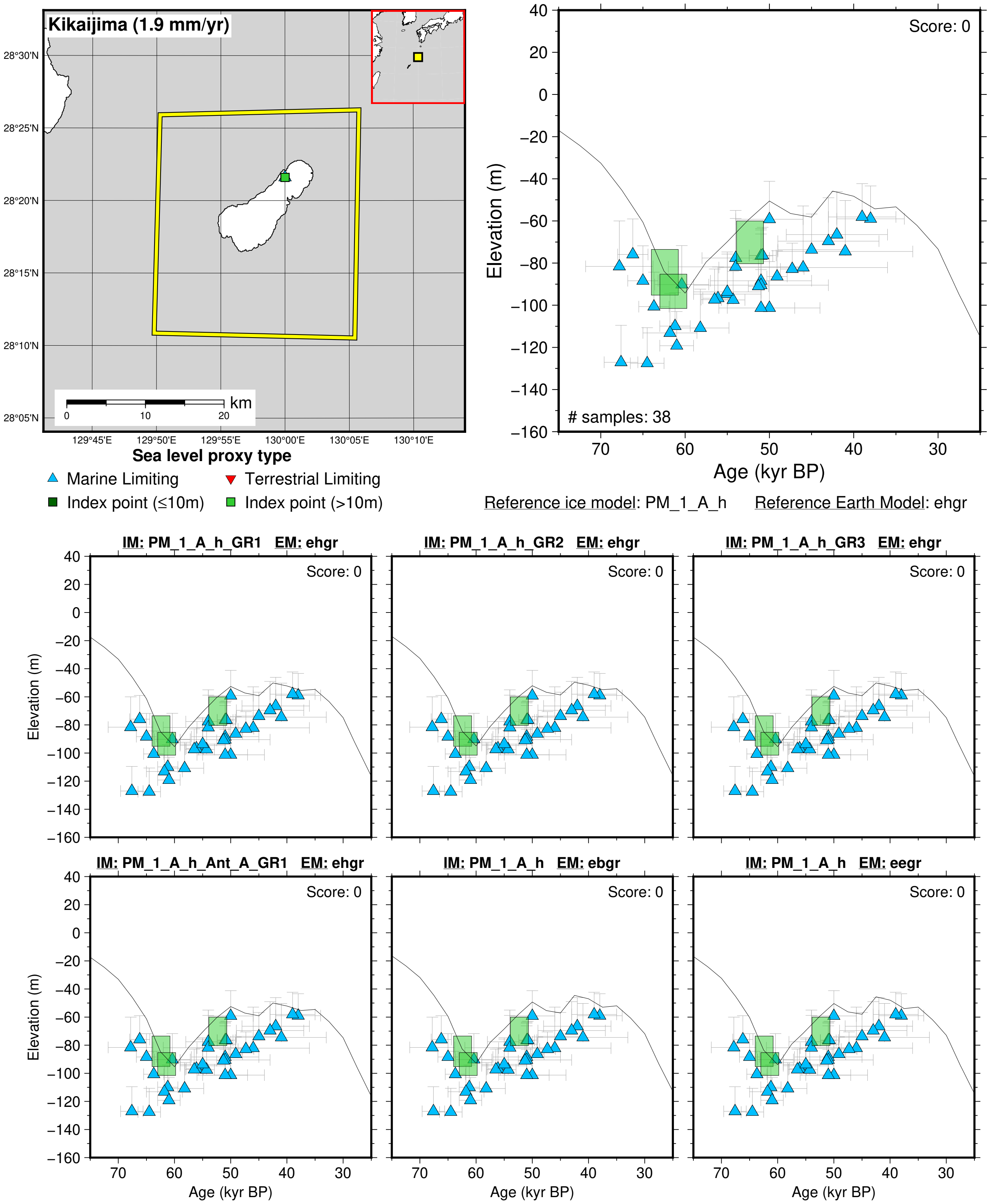

Figure 294: Paleo-sea level and comparison of six models for subregion: Ryukyu Islands, location: Kikaijima (1.9 mm/yr uplift rate). References: Konishi et al. (1974); Omura (1988); Omura and Konishi (1970); Omura et al. (1985, 2000); Sasaki et al. (2004).

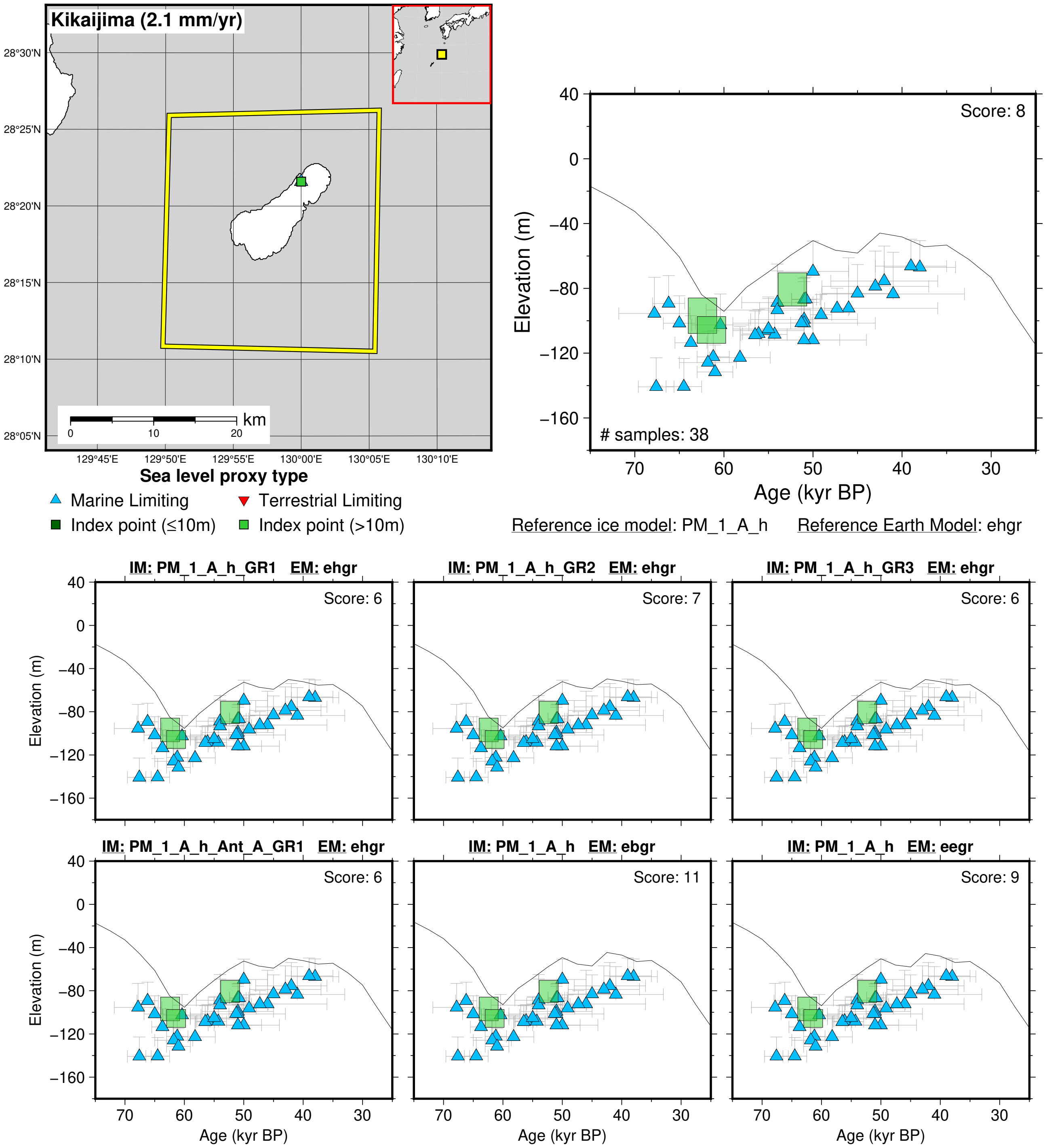

Figure 295: Paleo-sea level and comparison of six models for subregion: Ryukyu Islands, location: Kikaijima (2.1 mm/yr uplift rate). References: Konishi et al. (1974); Omura (1988); Omura and Konishi (1970); Omura et al. (1985, 2000); Sasaki et al. (2004).

7.4.2 Sea of Japan - East Sea

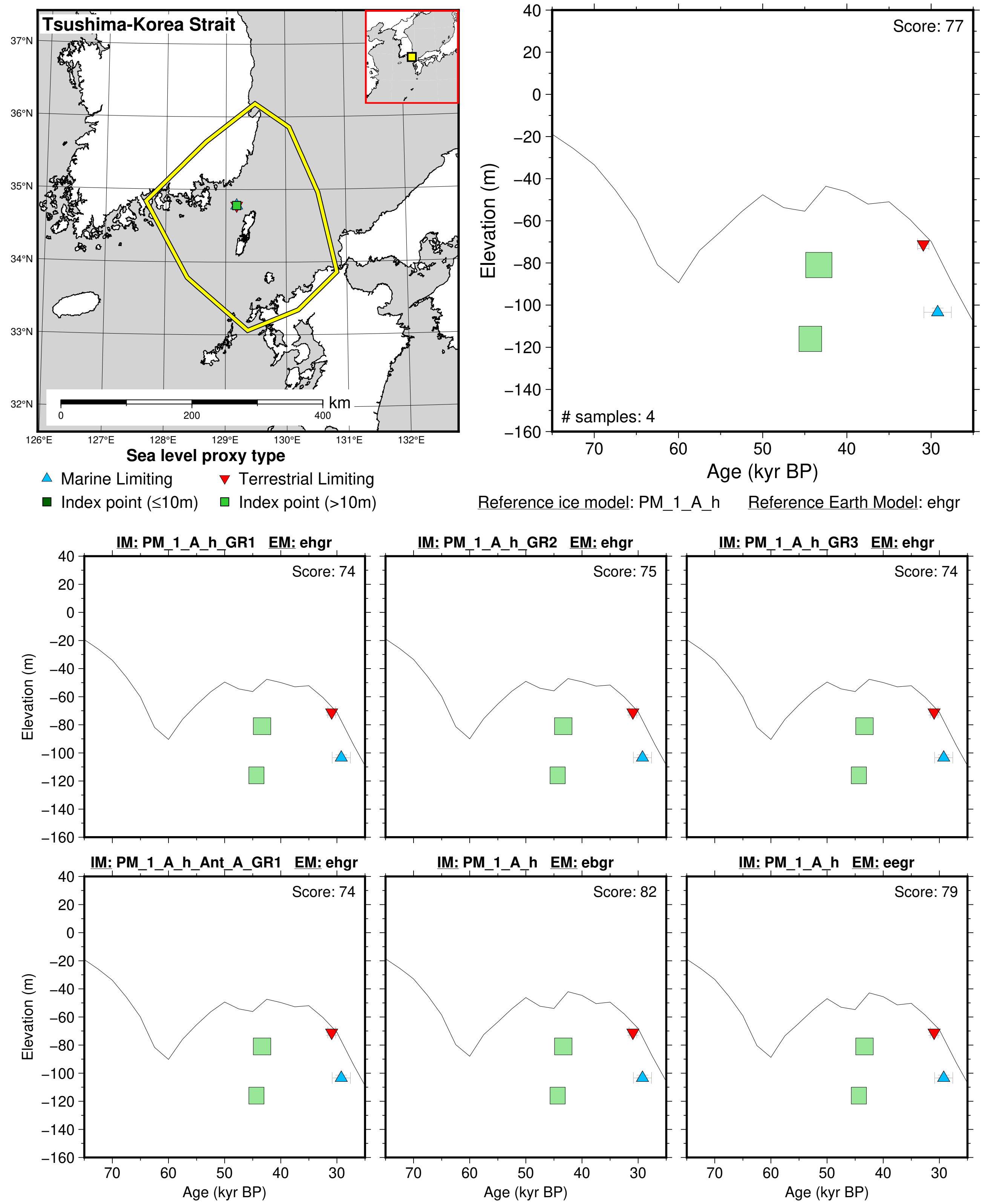

Figure 296: Paleo-sea level and comparison of six models for subregion: Sea of Japan - East Sea, location: Tsushima-Korea Strait. References: Park et al. (2000).

7.4.3 Yellow Sea

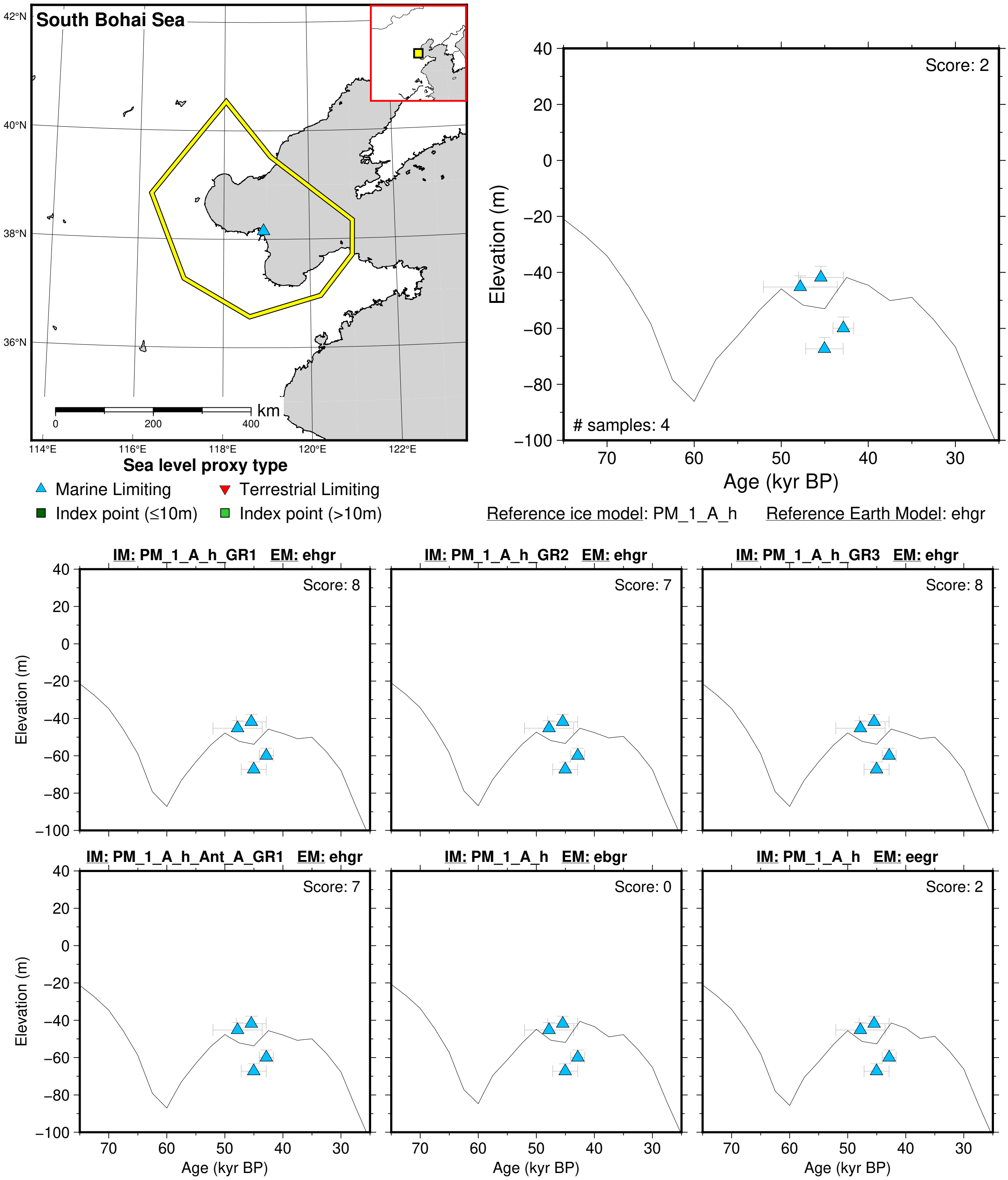

Figure 297: Paleo-sea level and comparison of six models for subregion: Yellow Sea, location: South Bohai Sea. References: Liu et al. (2009); Pico et al. (2016).

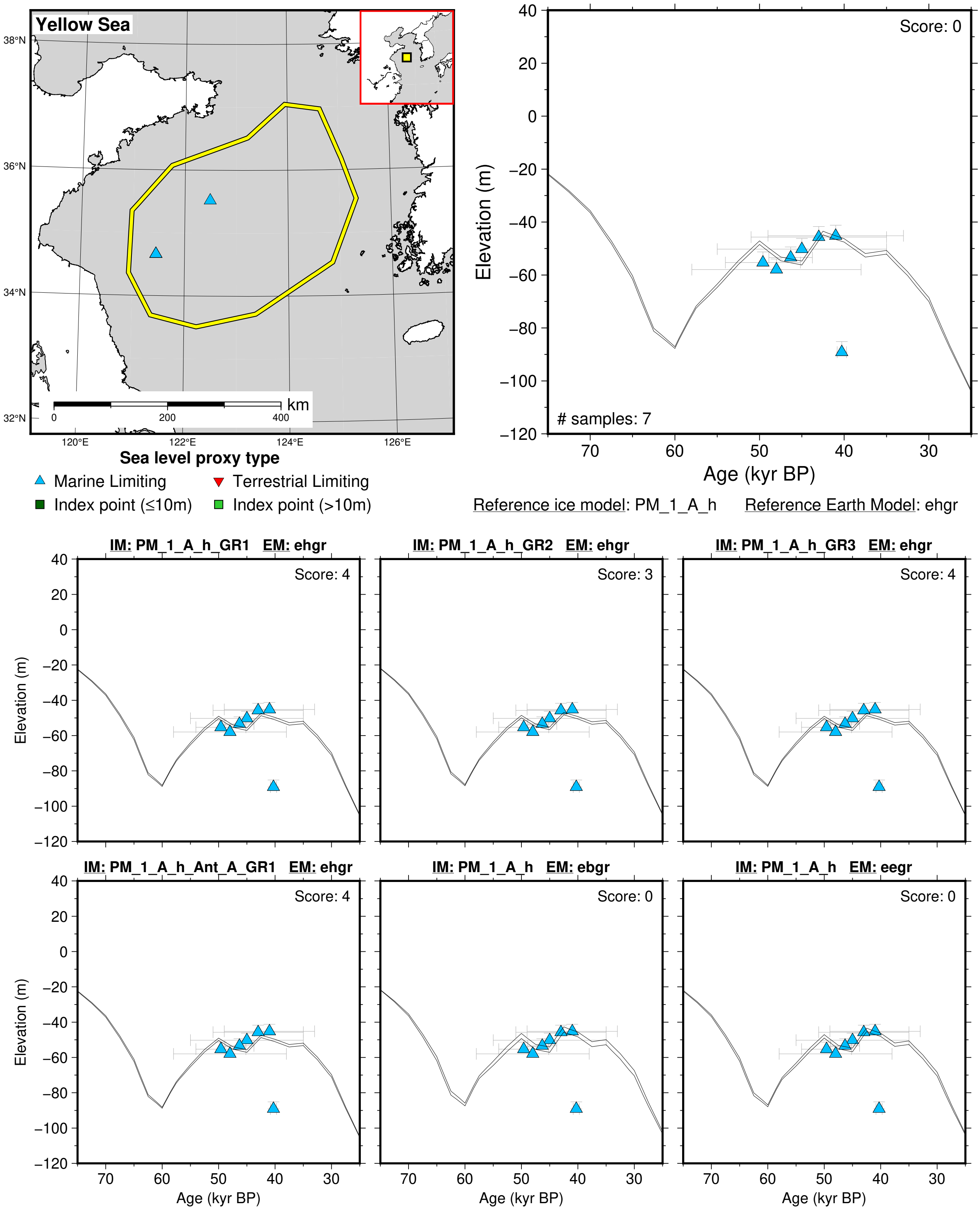

Figure 298: Paleo-sea level and comparison of six models for subregion: Yellow Sea, location: Yellow Sea. References: Liu et al. (2010); Pico et al. (2016); Wang et al. (2014).

7.5 Greenland

7.5.1 Northeast Greenland

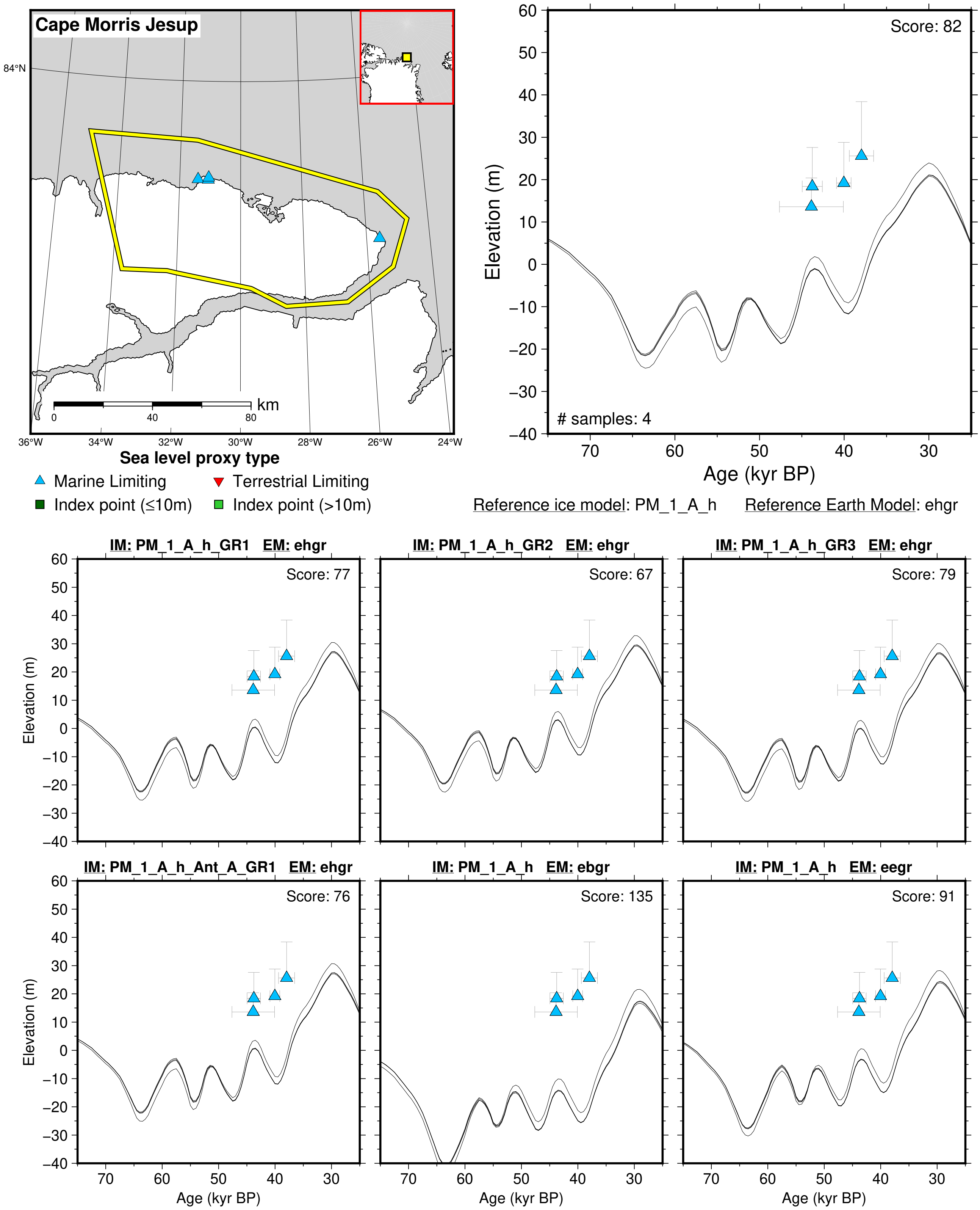

Figure 299: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Cape Morris Jesup. References: Funder et al. (2011).

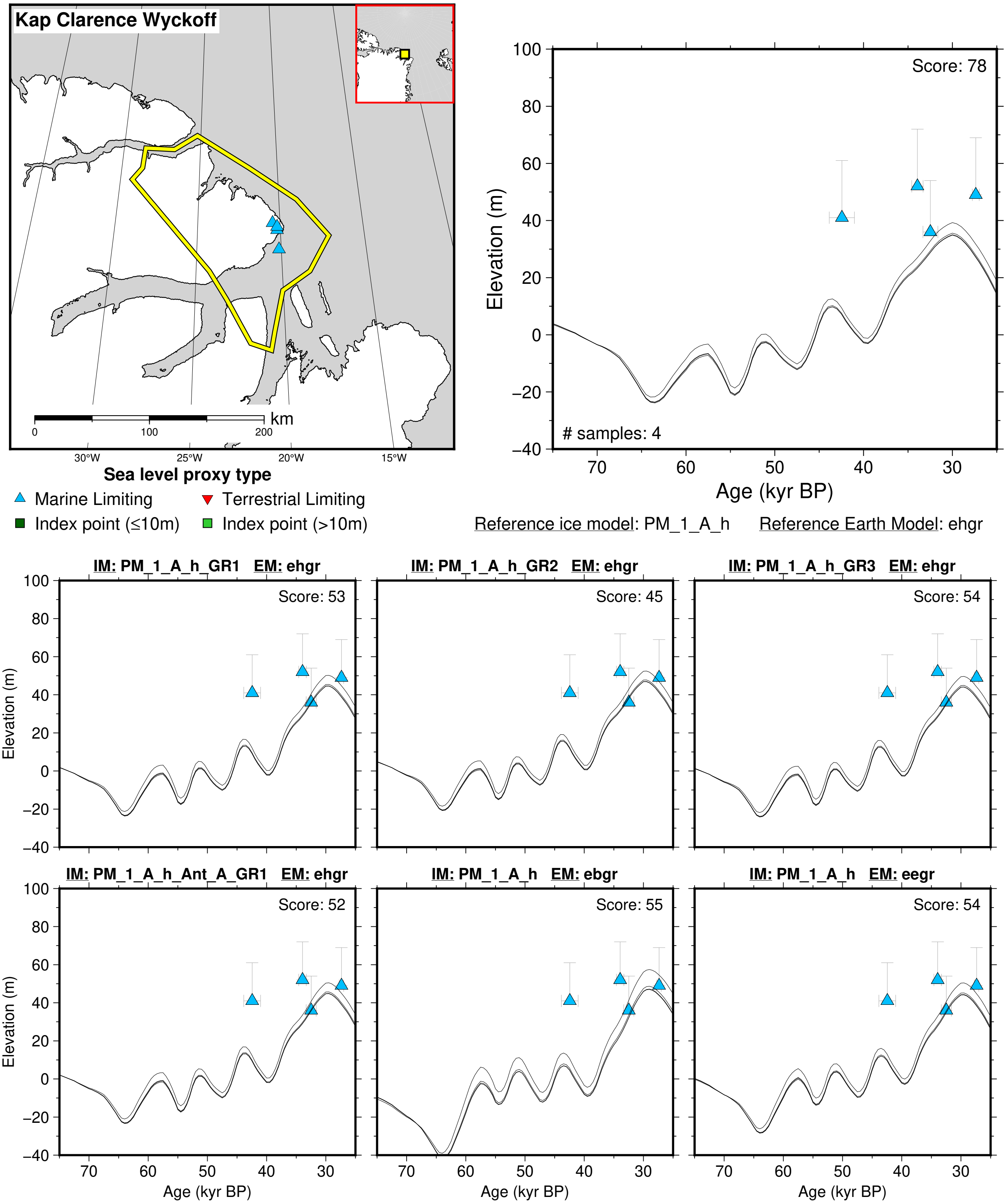

Figure 300: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Kap Clarence Wyckoff. References: Funder et al. (2011).

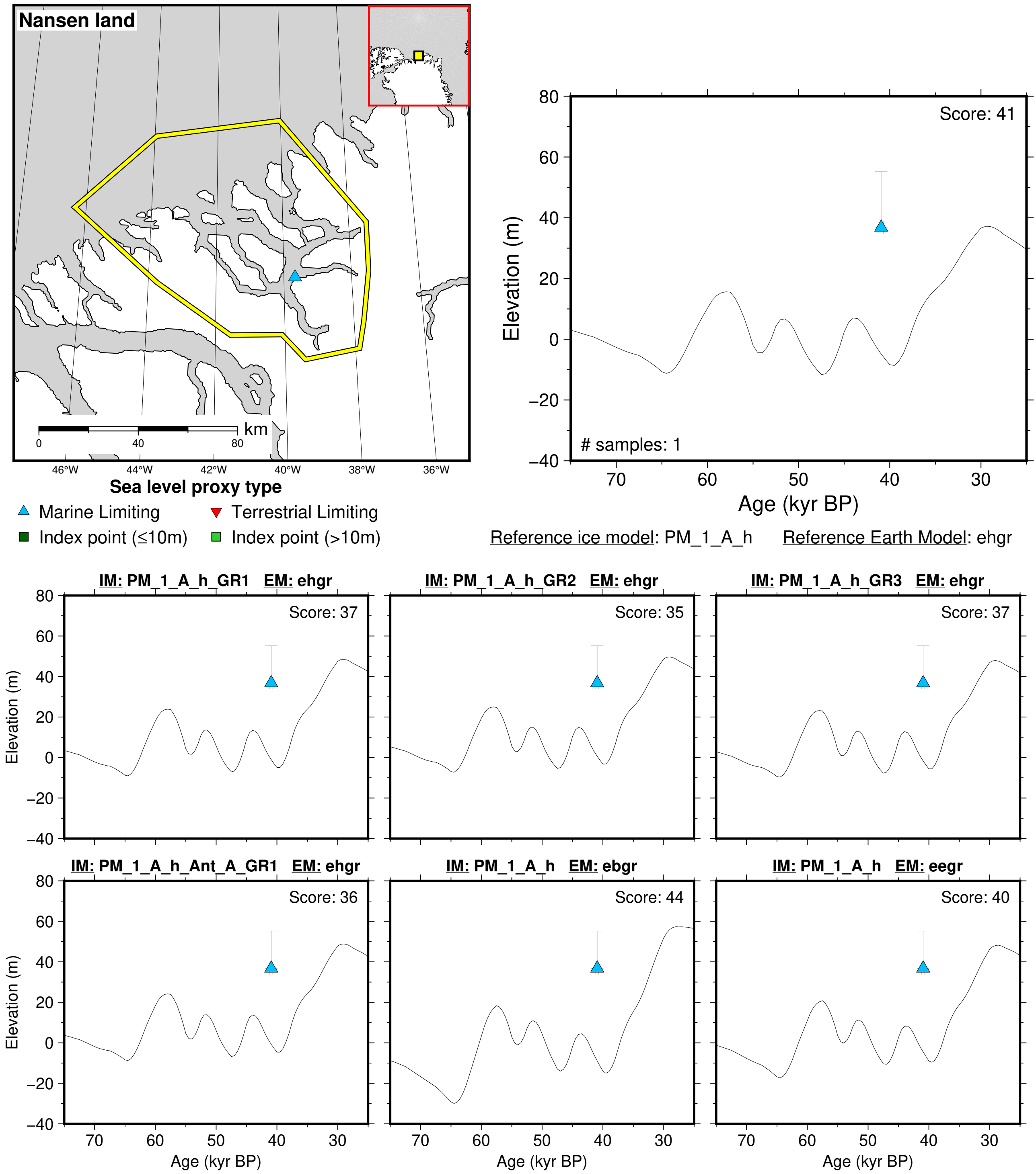

Figure 301: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Nansen land. References: Landvik et al. (2001).

7.6 North America Atlantic

7.6.1 Eastern United States

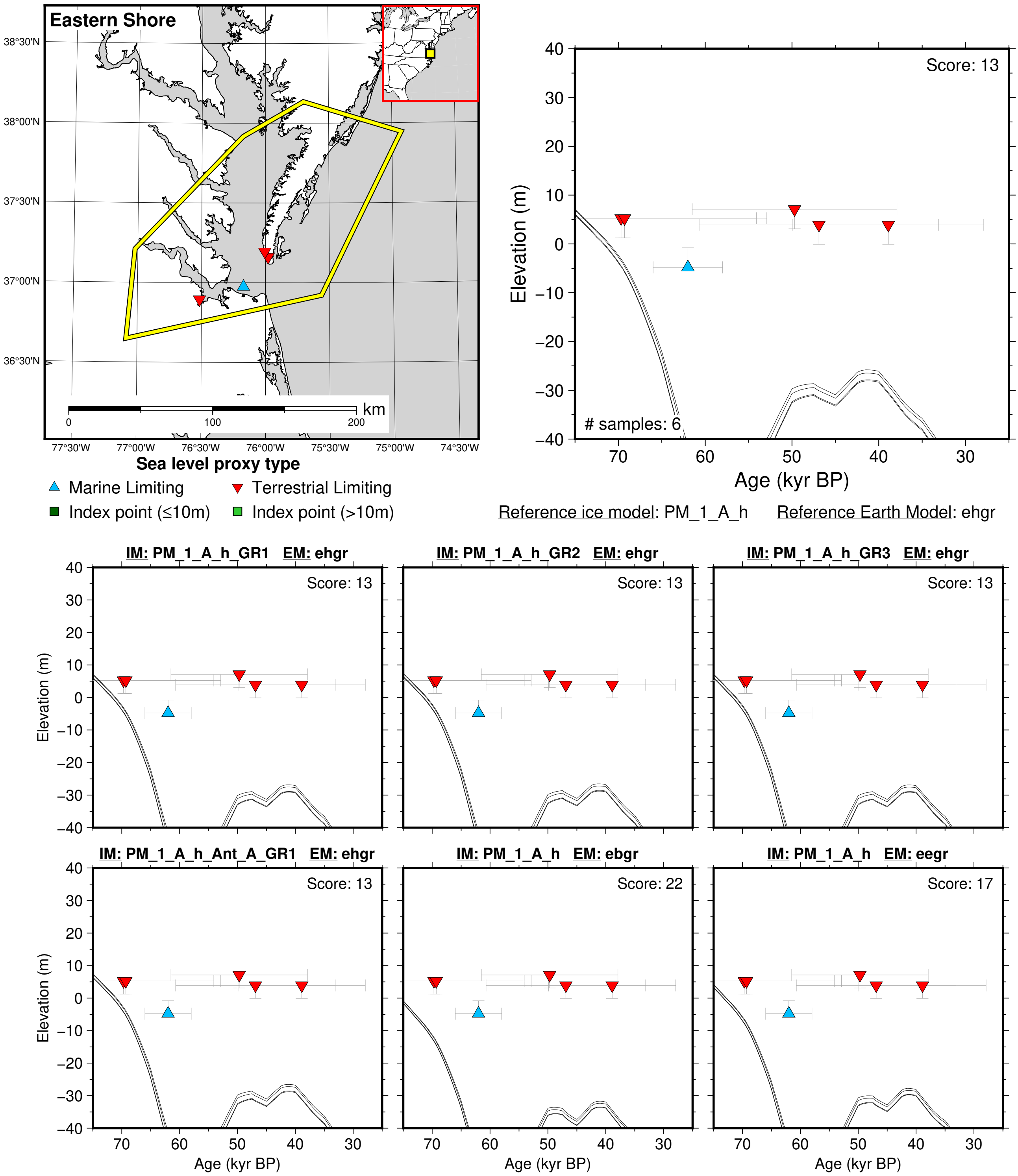

Figure 302: Paleo-sea level and comparison of six models for subregion: Eastern United States, location: Eastern Shore. References: Engelhart and Horton (2012); Mixon et al. (1982); Parham et al. (2013); Scott (2006).

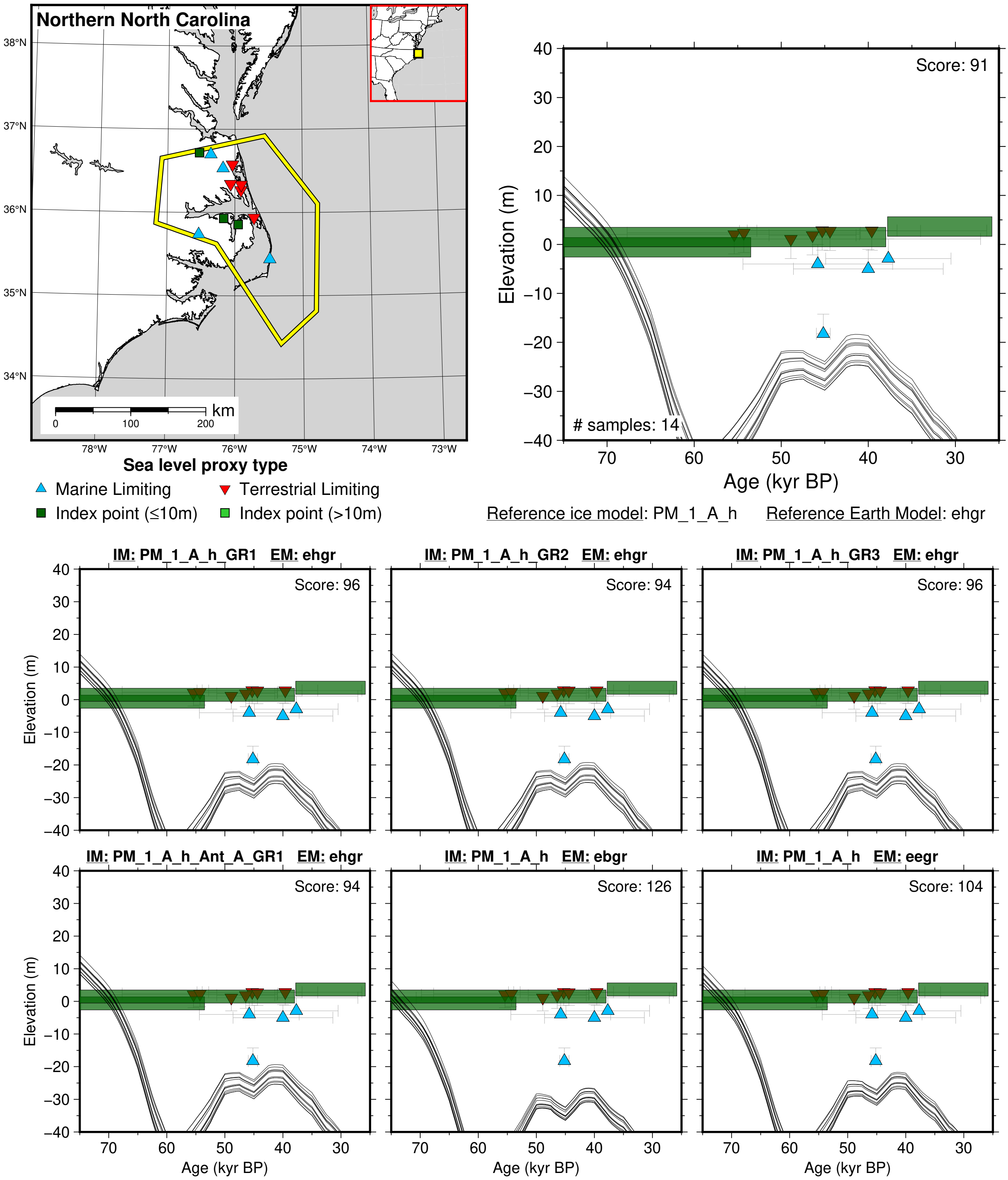

Figure 303: Paleo-sea level and comparison of six models for subregion: Eastern United States, location: Northern North Carolina. References: Culver et al. (2011); Mallinson et al. (2008); Parham et al. (2013); Pico et al. (2017); Scott (2006).

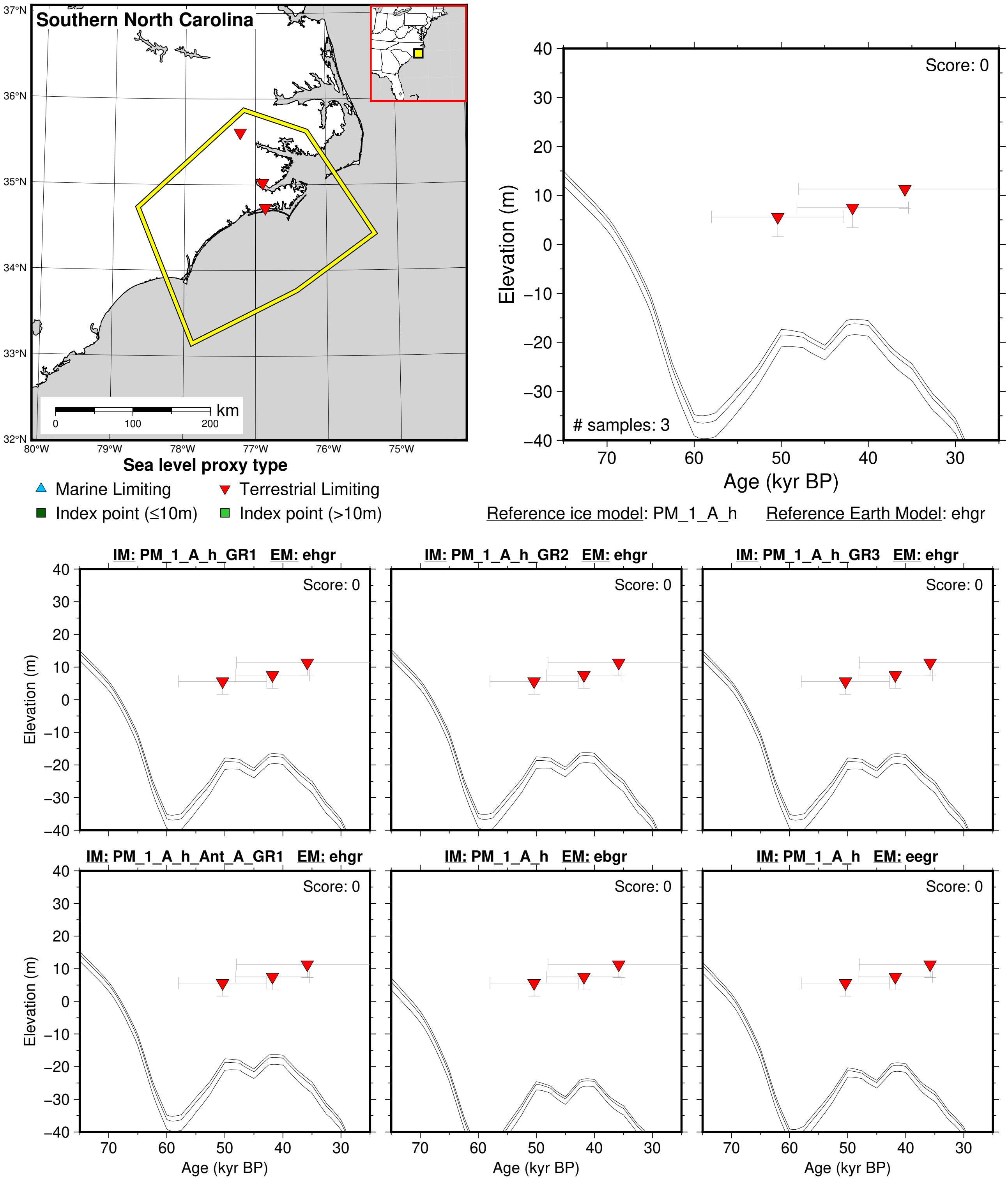

Figure 304: Paleo-sea level and comparison of six models for subregion: Eastern United States, location: Southern North Carolina. References: Best (2010); Moore (2009); Parham et al. (2013); Pico et al. (2017).

7.7 Pacific Islands

7.7.1 French Polynesia

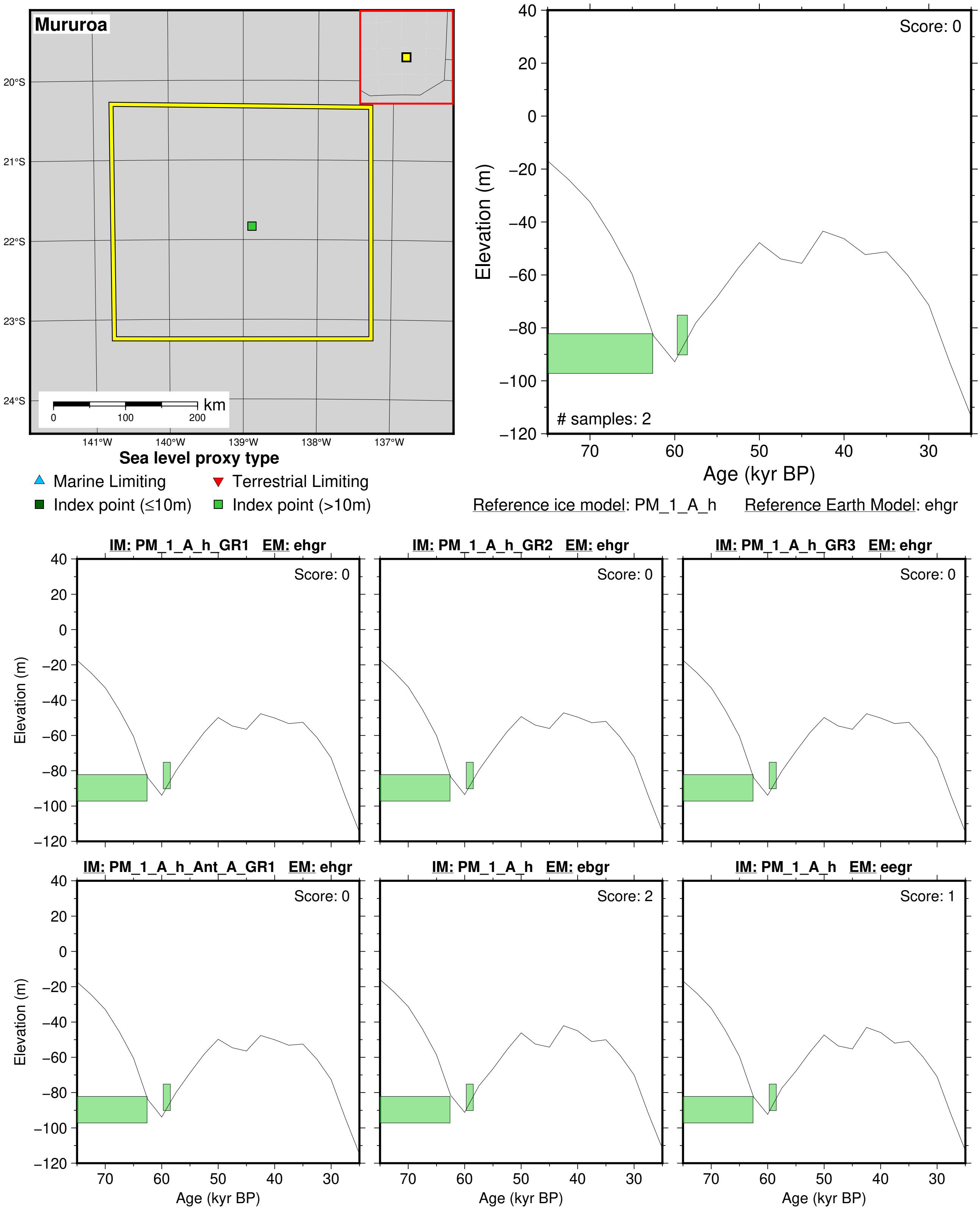

Figure 305: Paleo-sea level and comparison of six models for subregion: French Polynesia, location: Mururoa. References: Camoin et al. (2001); Hibbert et al. (2016).

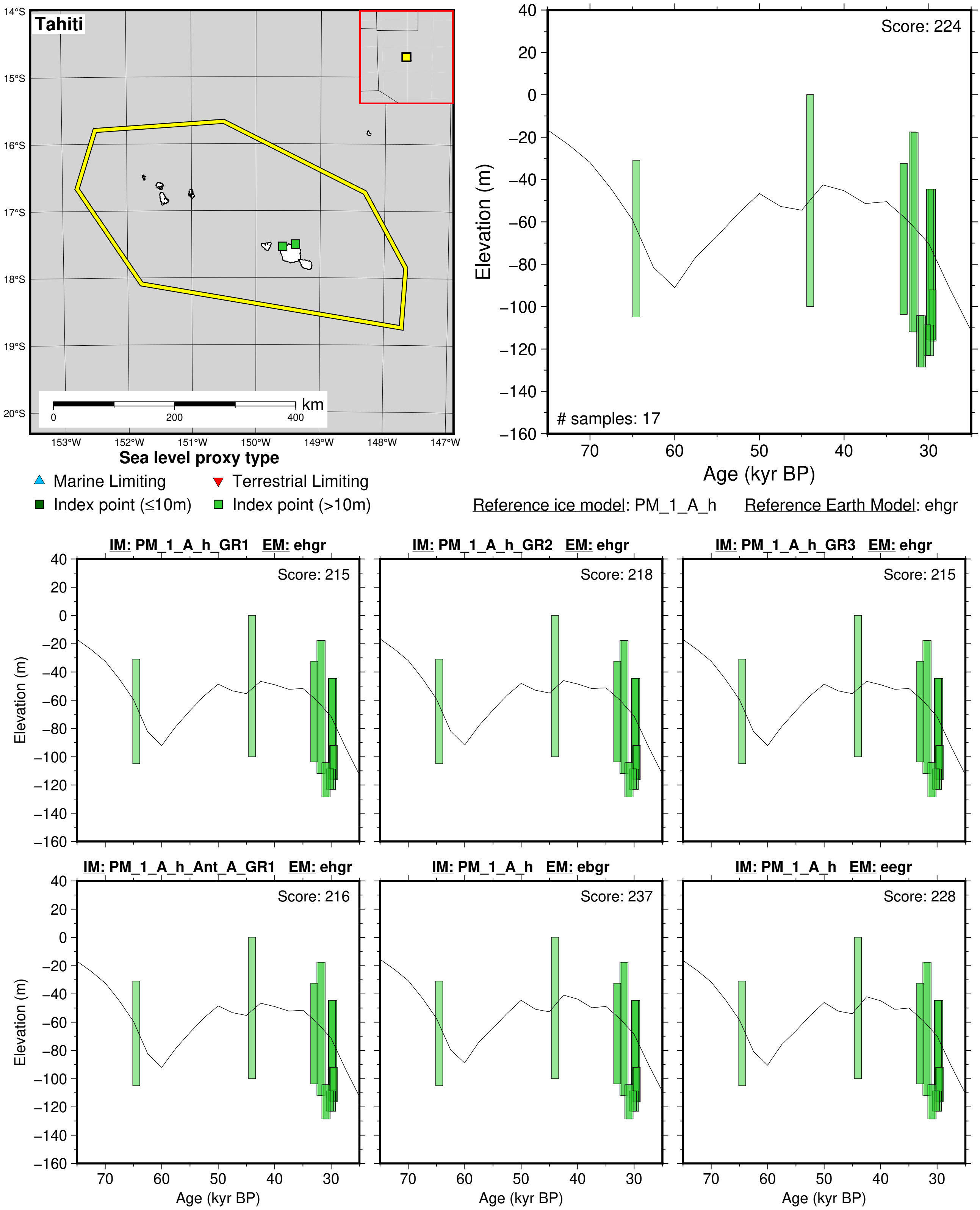

Figure 306: Paleo-sea level and comparison of six models for subregion: French Polynesia, location: Tahiti. References: Hibbert et al. (2016); Thomas et al. (2009).

7.7.2 Melansia

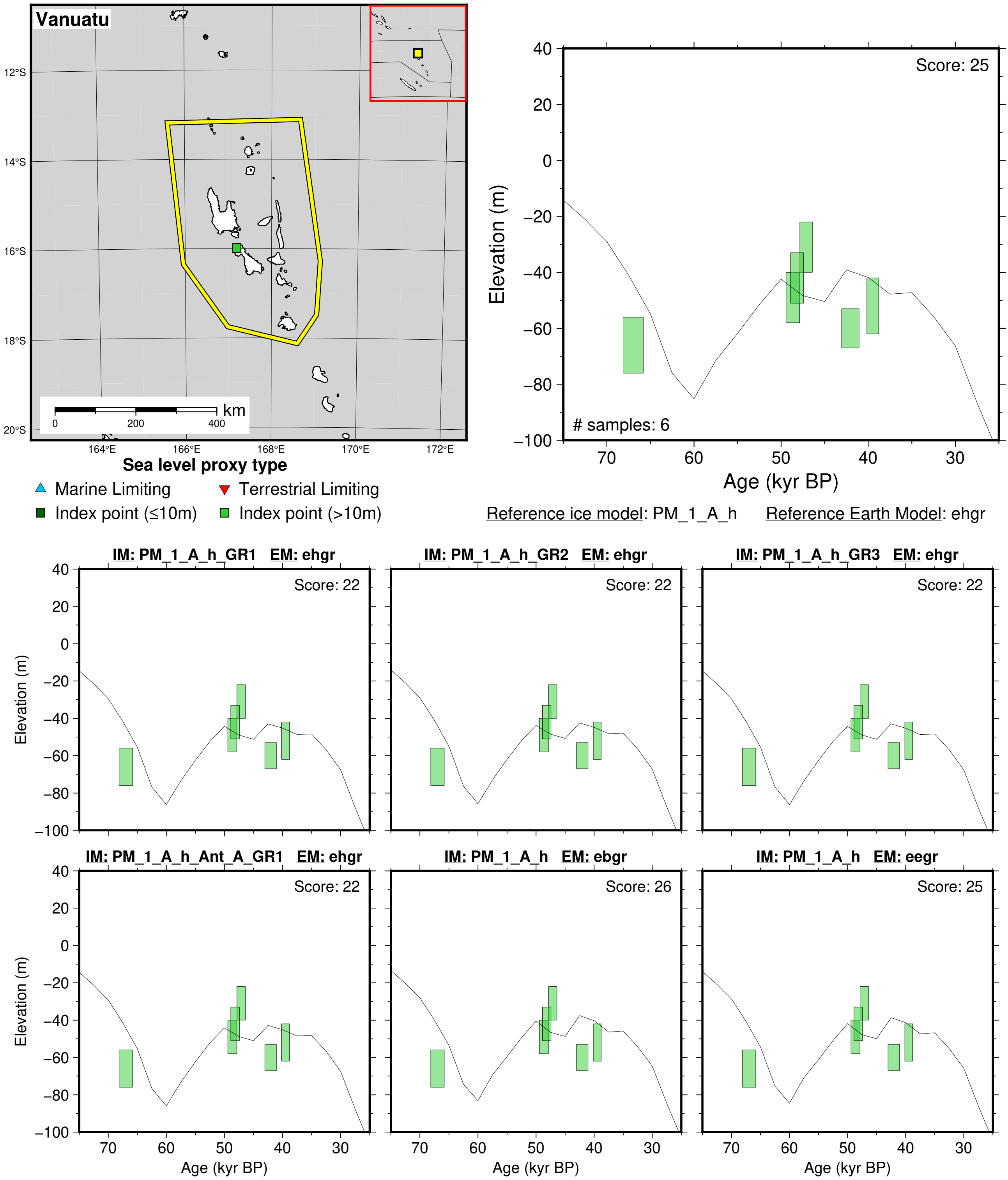

Figure 307: Paleo-sea level and comparison of six models for subregion: Melansia, location: Vanuatu. References: Cabioch and Ayliffe (2001).

7.8 Proxy Based Sea Level

7.8.1 Java Sea

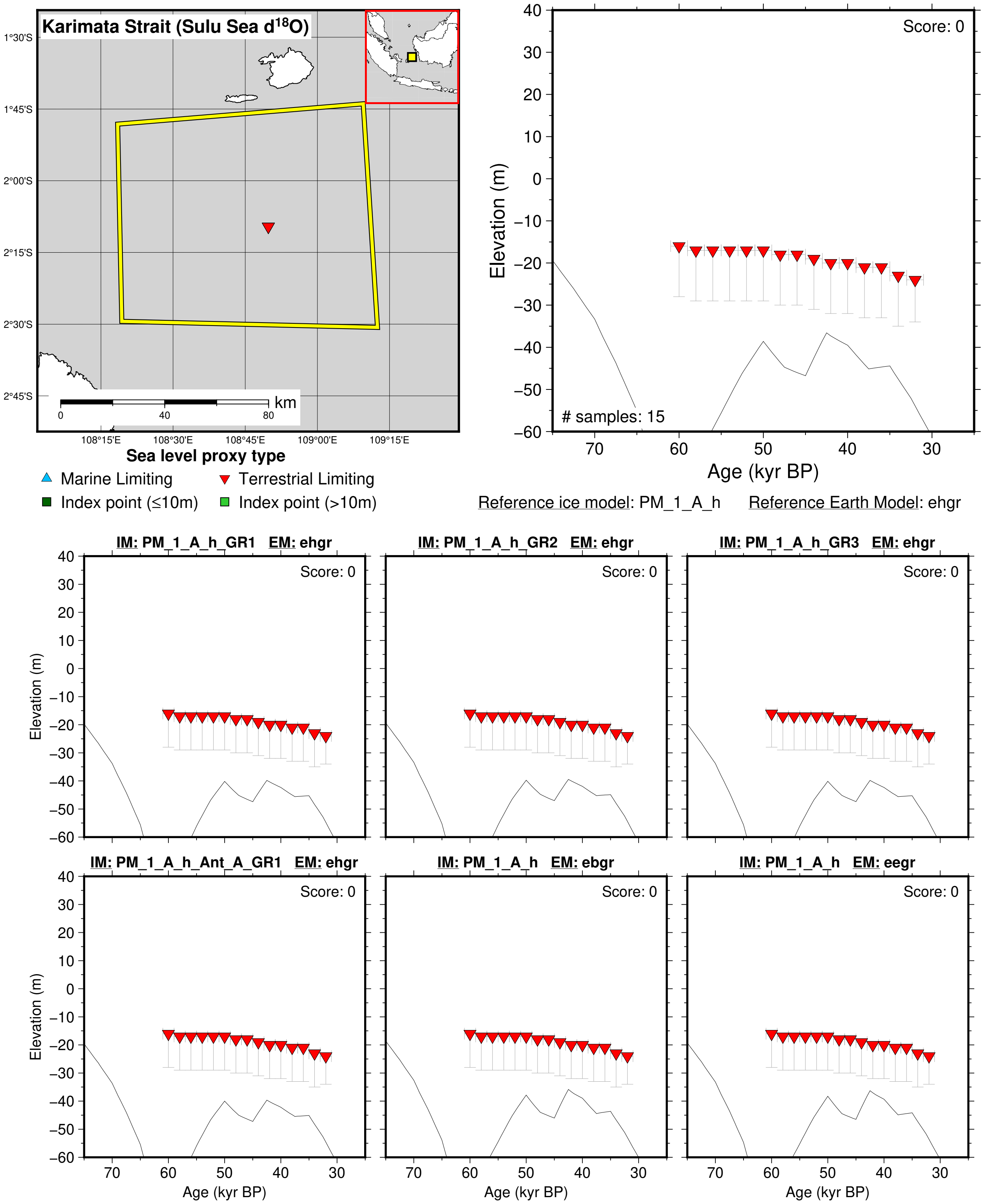

Figure 308: Paleo-sea level and comparison of six models for subregion: Java Sea, location: Karimata Strait (Sulu Sea δ^{18}O Proxy). References: Weiss et al. (2022).

7.8.2 Red Sea

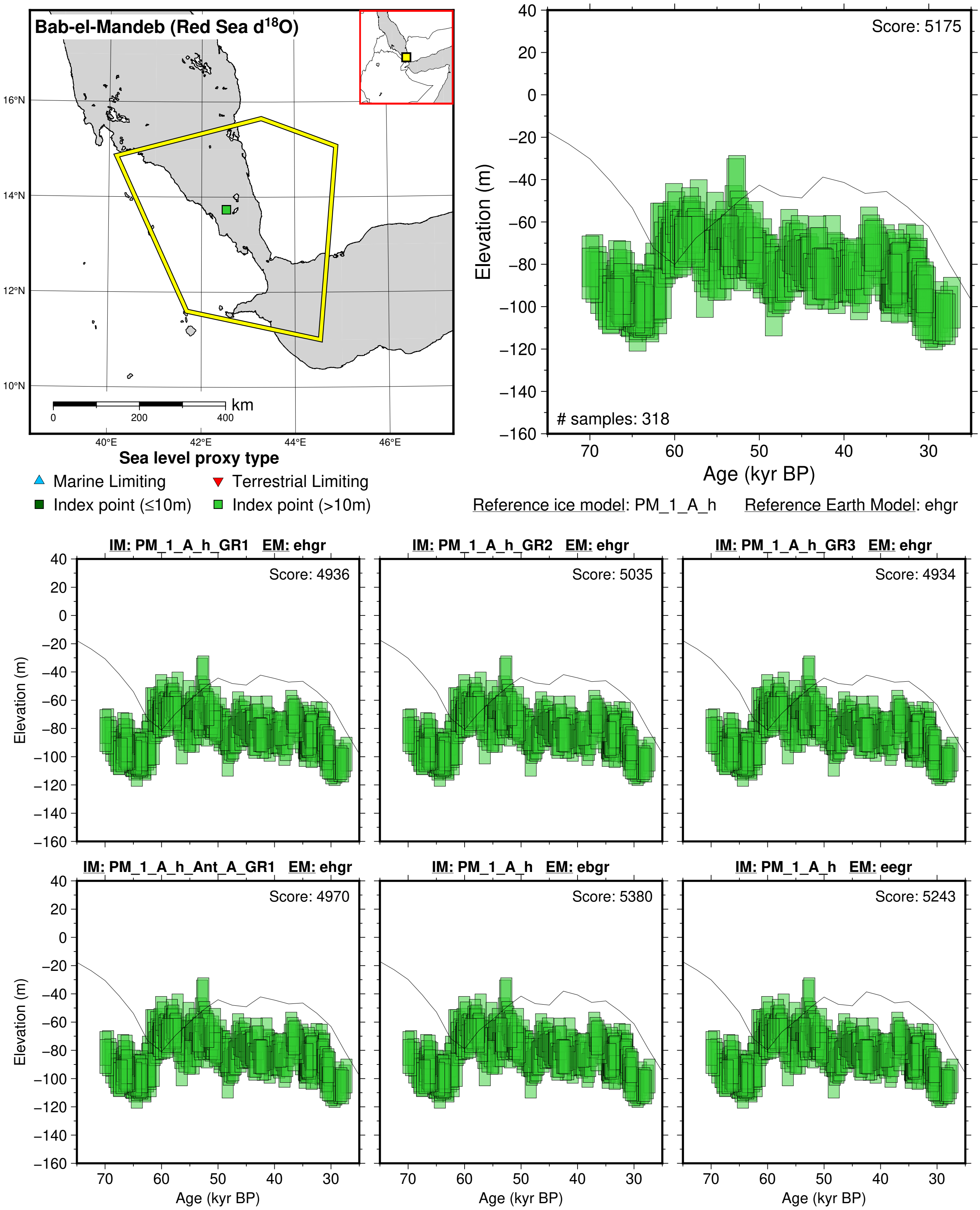

Figure 309: Paleo-sea level and comparison of six models for subregion: Red Sea, location: Bab-el-Mandeb (Red Sea δ^{18}O Proxy). References: Grant et al. (2012, 2014).

7.9 South Asia

7.9.1 Bay of Bengal

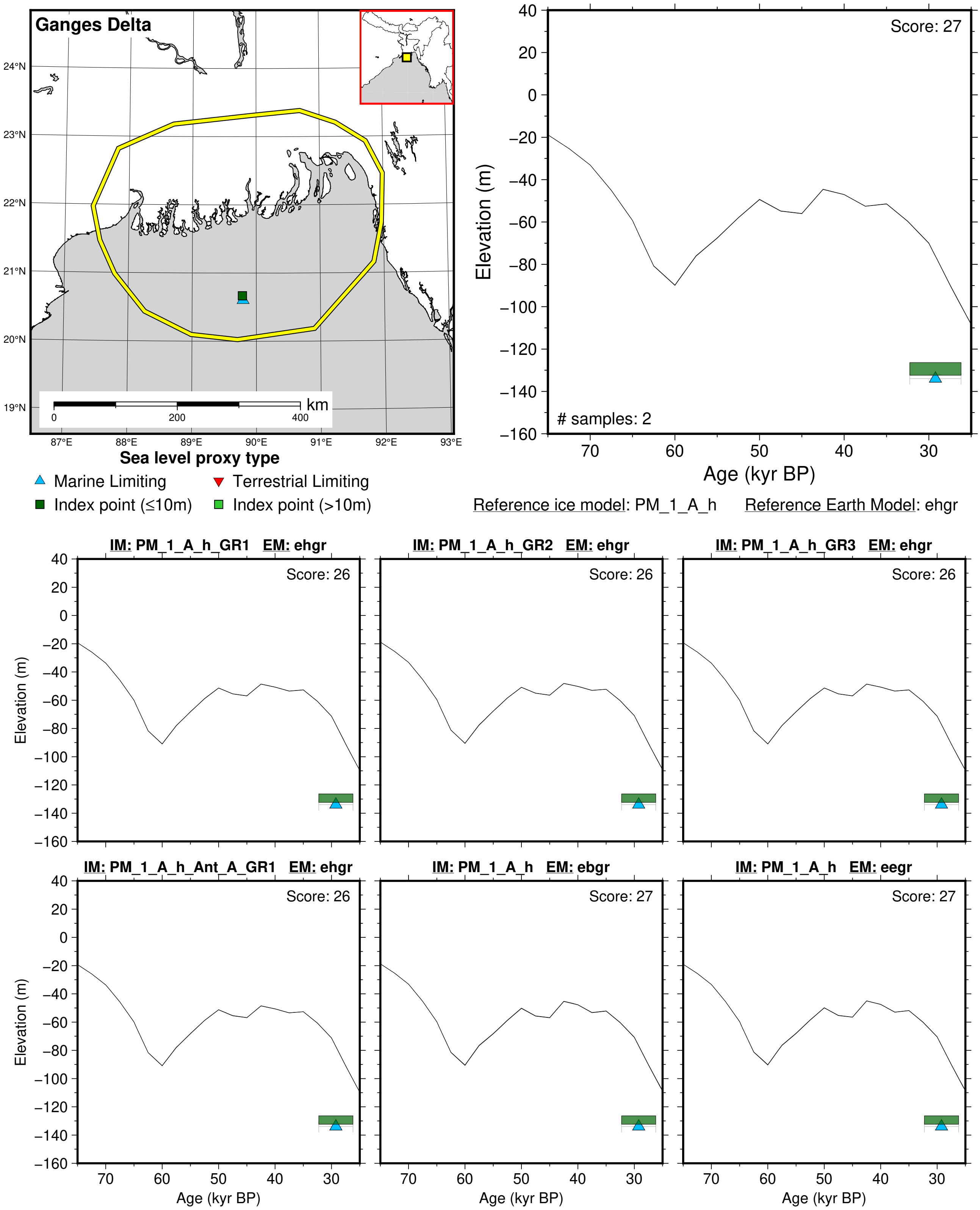

Figure 310: Paleo-sea level and comparison of six models for subregion: Bay of Bengal, location: Ganges Delta. References: Wiedicke et al. (1999).

7.10 Southeast Asia

7.10.1 Papua New Guinea

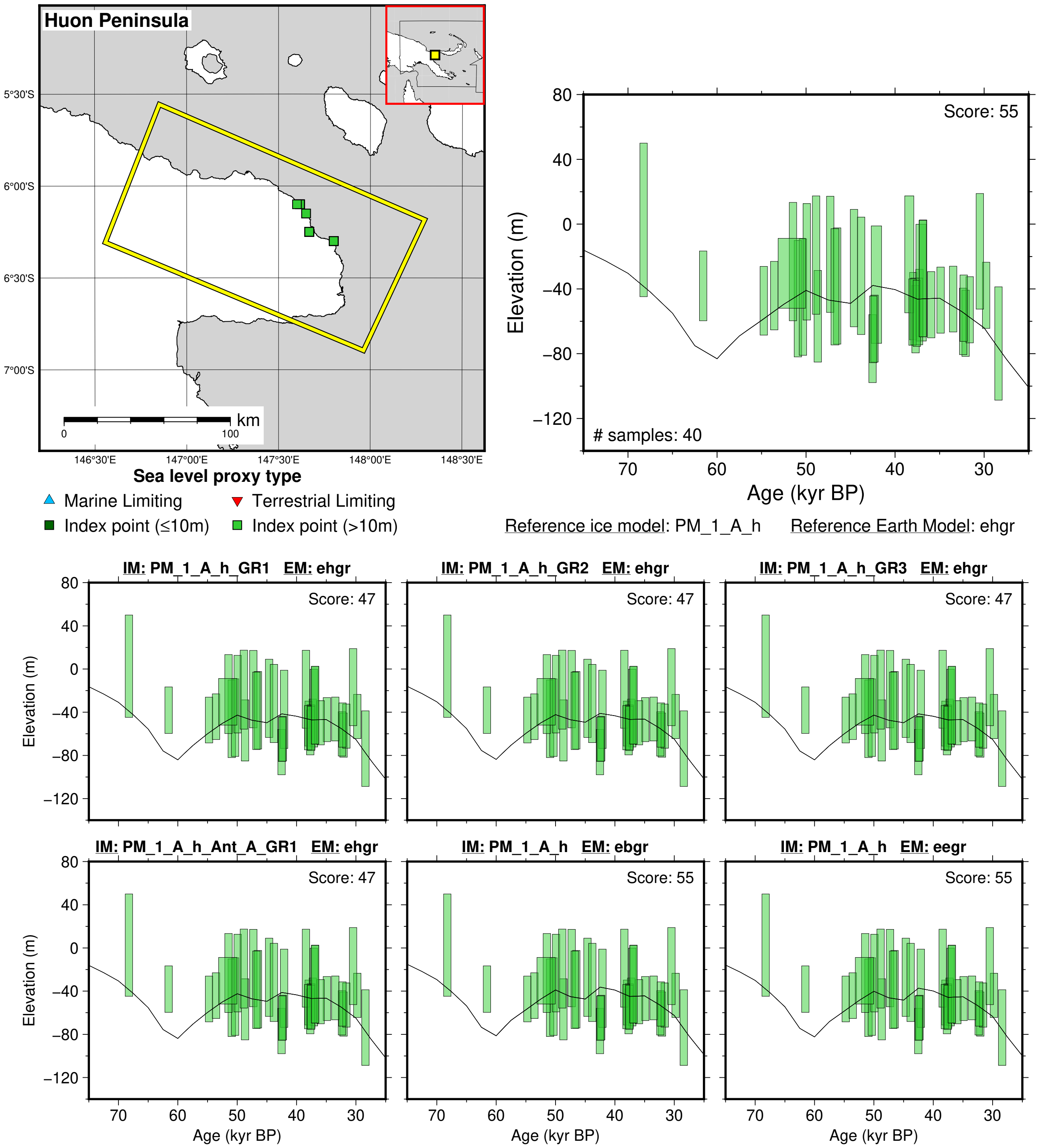

Figure 311: Paleo-sea level and comparison of six models for subregion: Papua New Guinea, location: Huon Peninsula. References: Chappell et al. (1996); Cutler et al. (2003); Hibbert et al. (2016); Yokoyama et al. (2001).

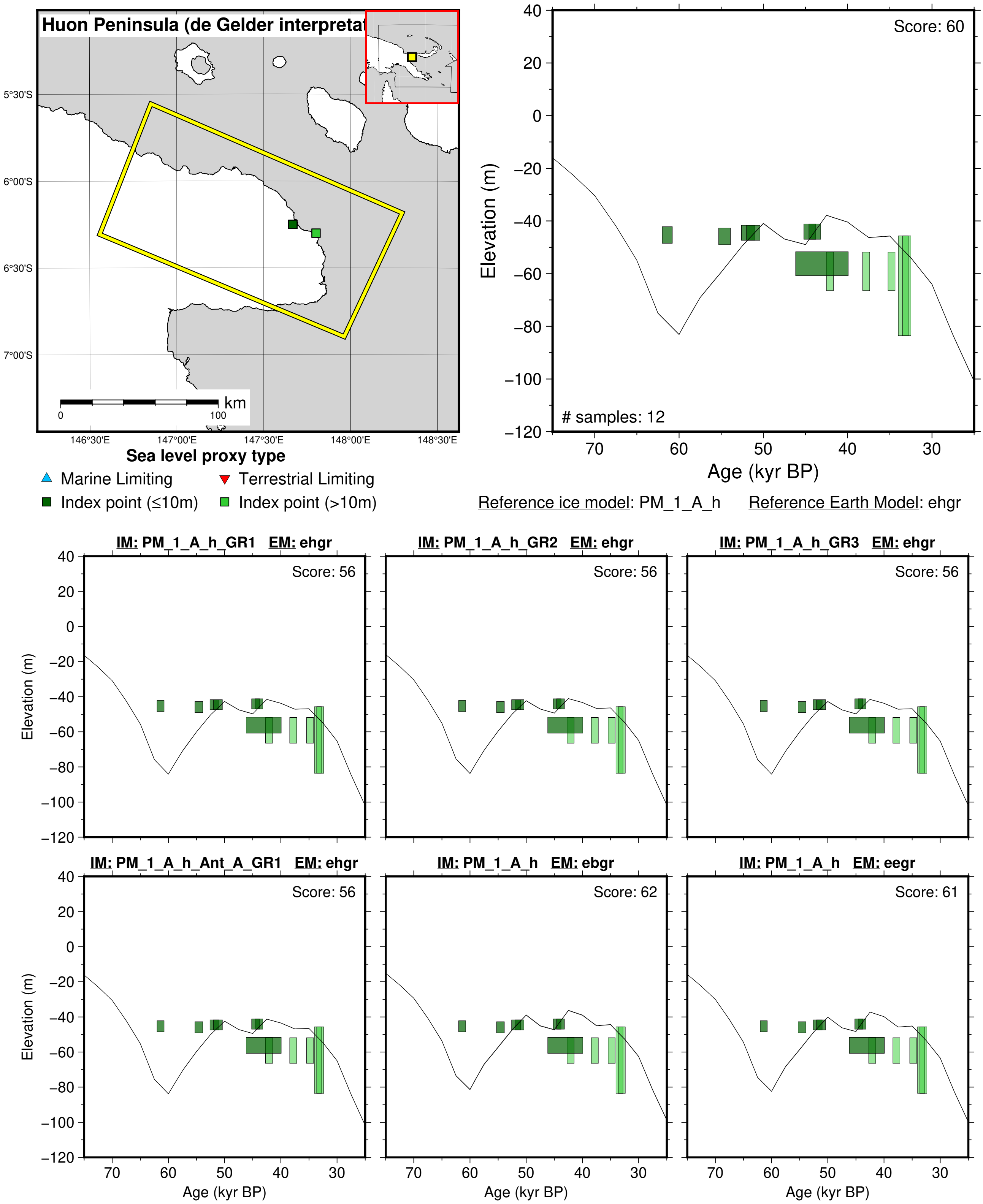

Figure 312: Paleo-sea level and comparison of six models for subregion: Papua New Guinea, location: Huon Peninsula (Interpretation by de Gelder *et al.*). References: Chappell (2002); Chappell et al. (1996); de Gelder et al. (2022).

7.10.2 South China Sea

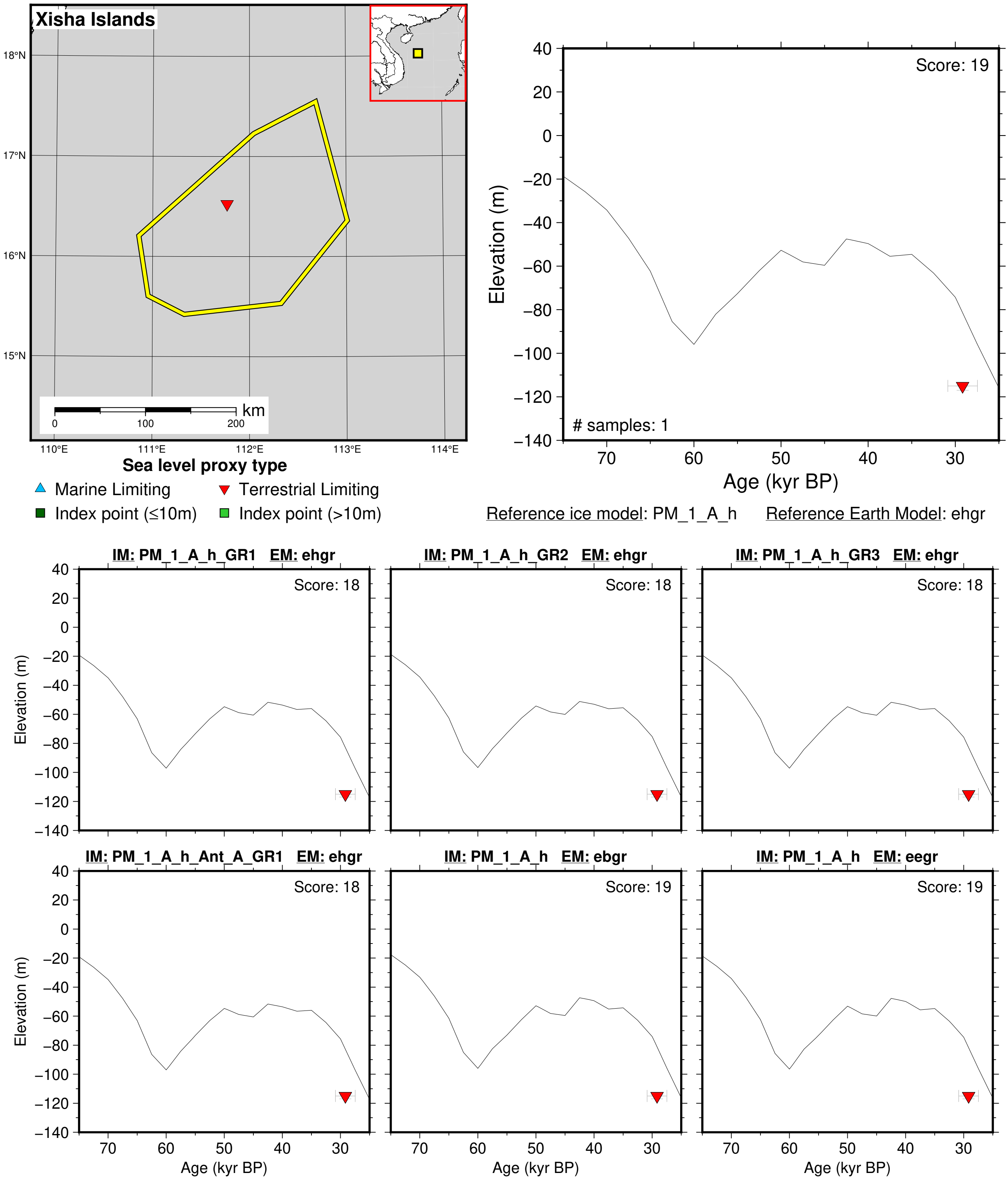

Figure 313: Paleo-sea level and comparison of six models for subregion: South China Sea, location: Xisha Islands. References: Yu et al. (2022).

7.10.3 Sundaland

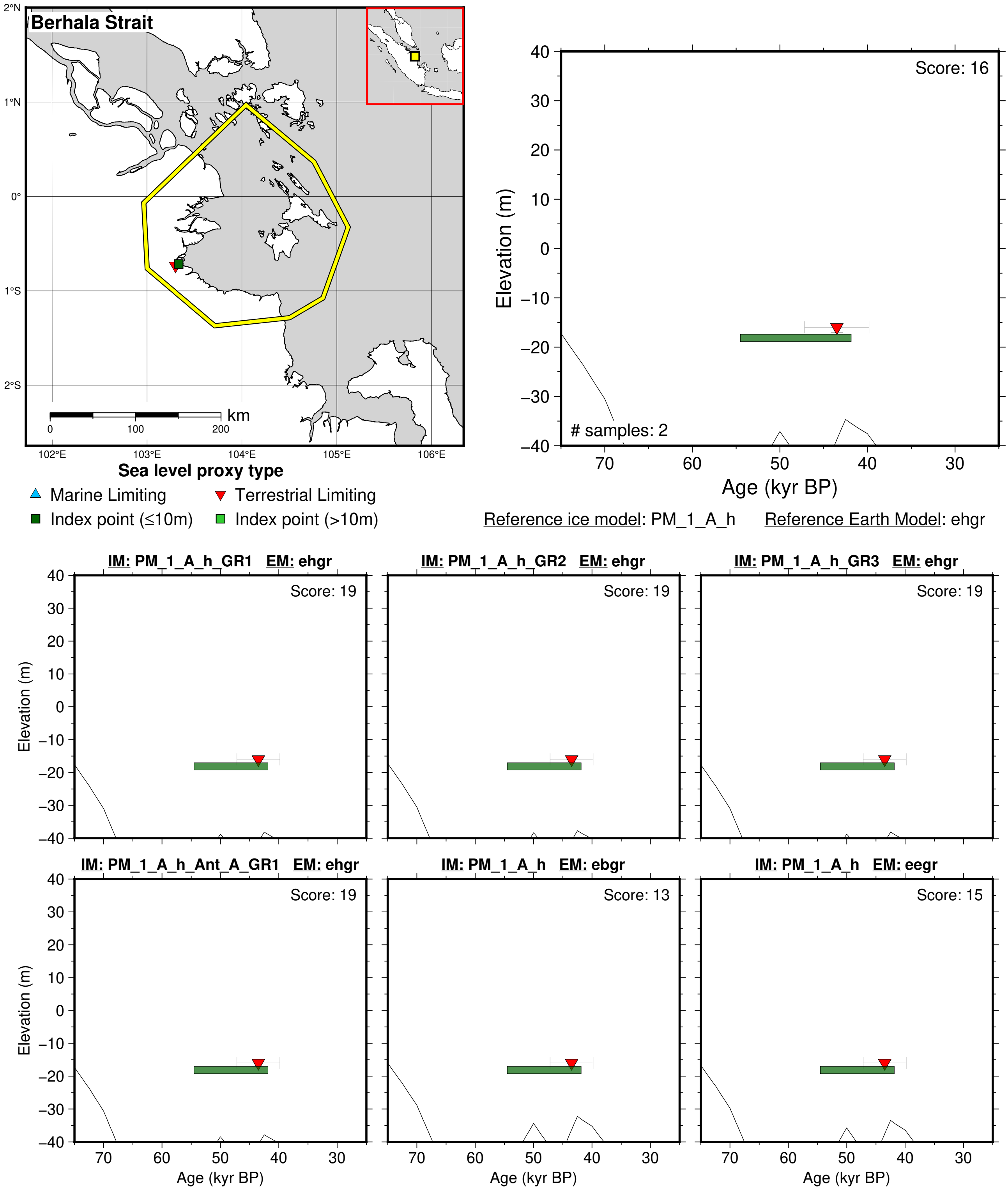

Figure 314: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Berhala Strait. References: Geyh et al. (1979); Mann et al. (2019).

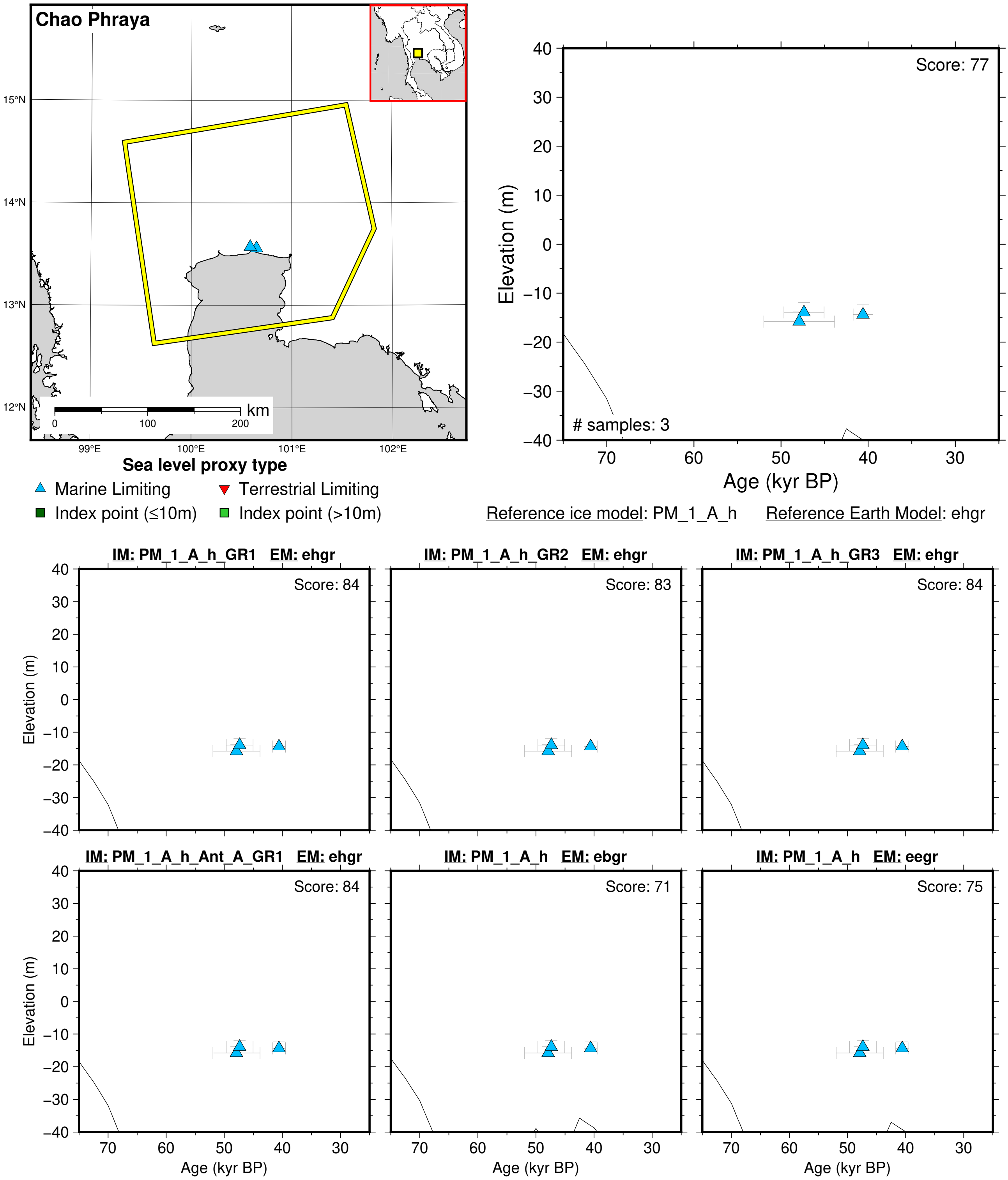

Figure 315: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Chao Phraya. References: Mann et al. (2019); Tanabe et al. (2003).

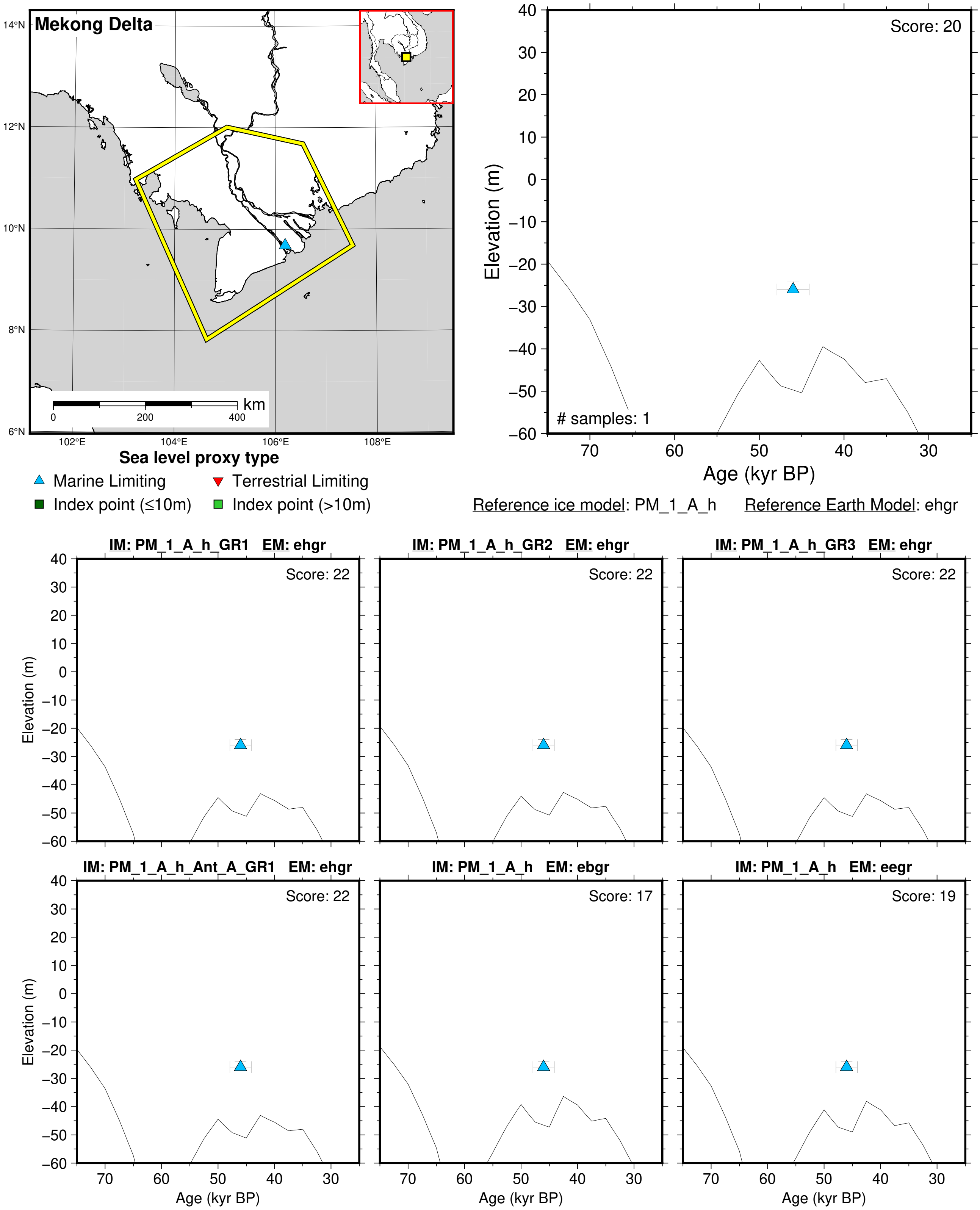

Figure 316: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Mekong Delta. References: Mann et al. (2019); Ta et al. (2002).

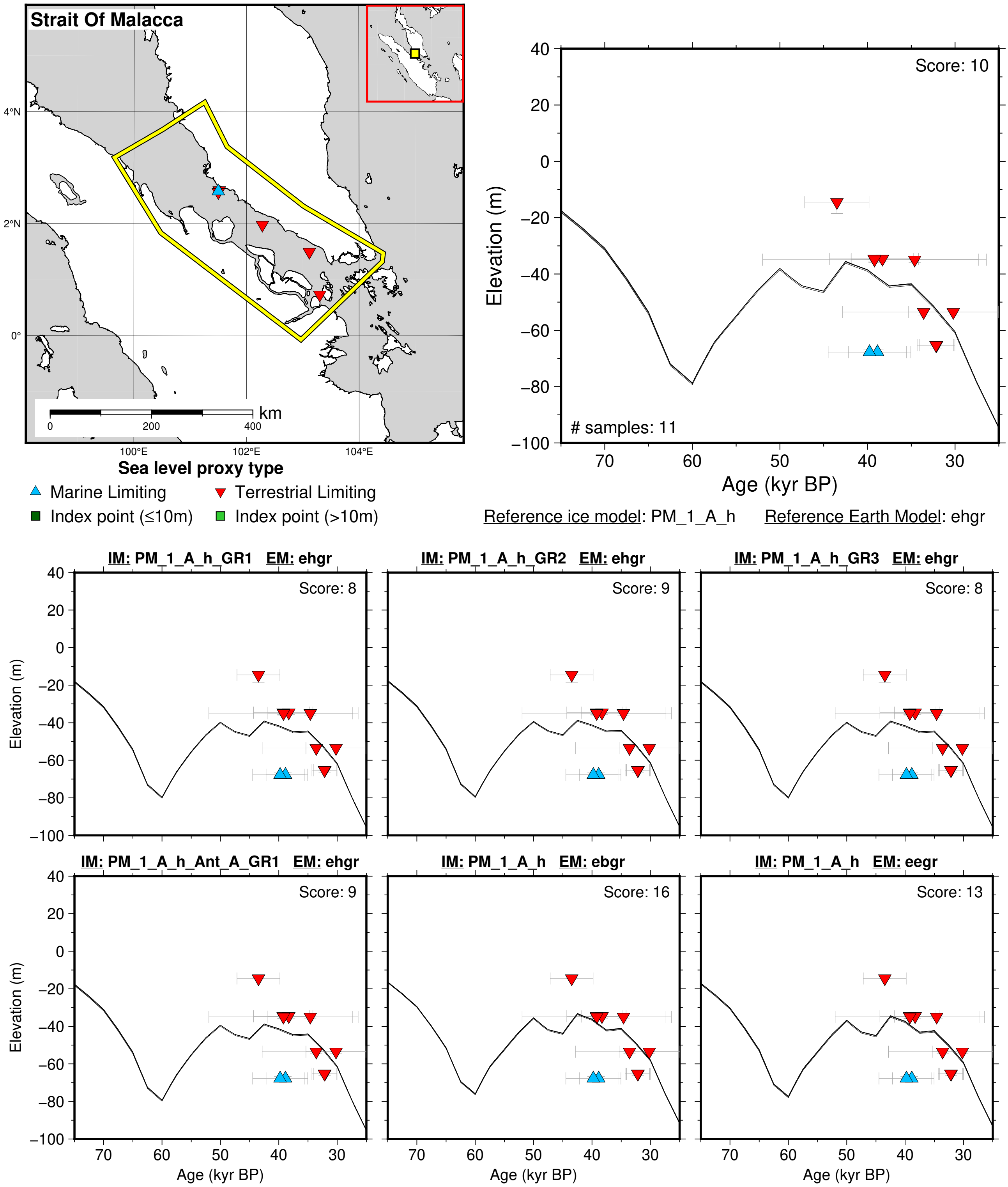

Figure 317: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Strait Of Malacca. References: Geyh et al. (1979); Mann et al. (2019).

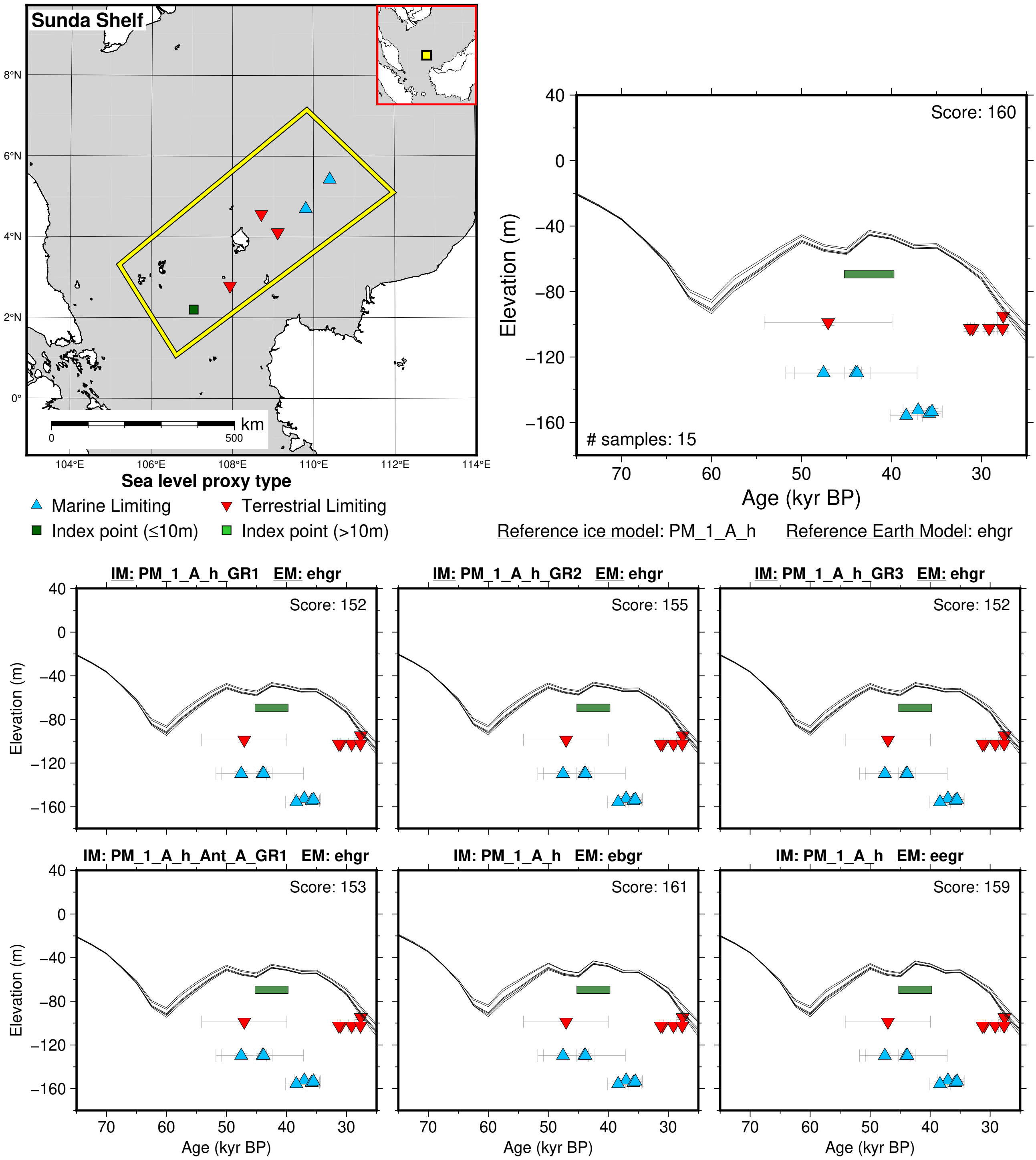

Figure 318: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Sunda Shelf. References: Hanebuth et al. (2003); Steinke et al. (2003).

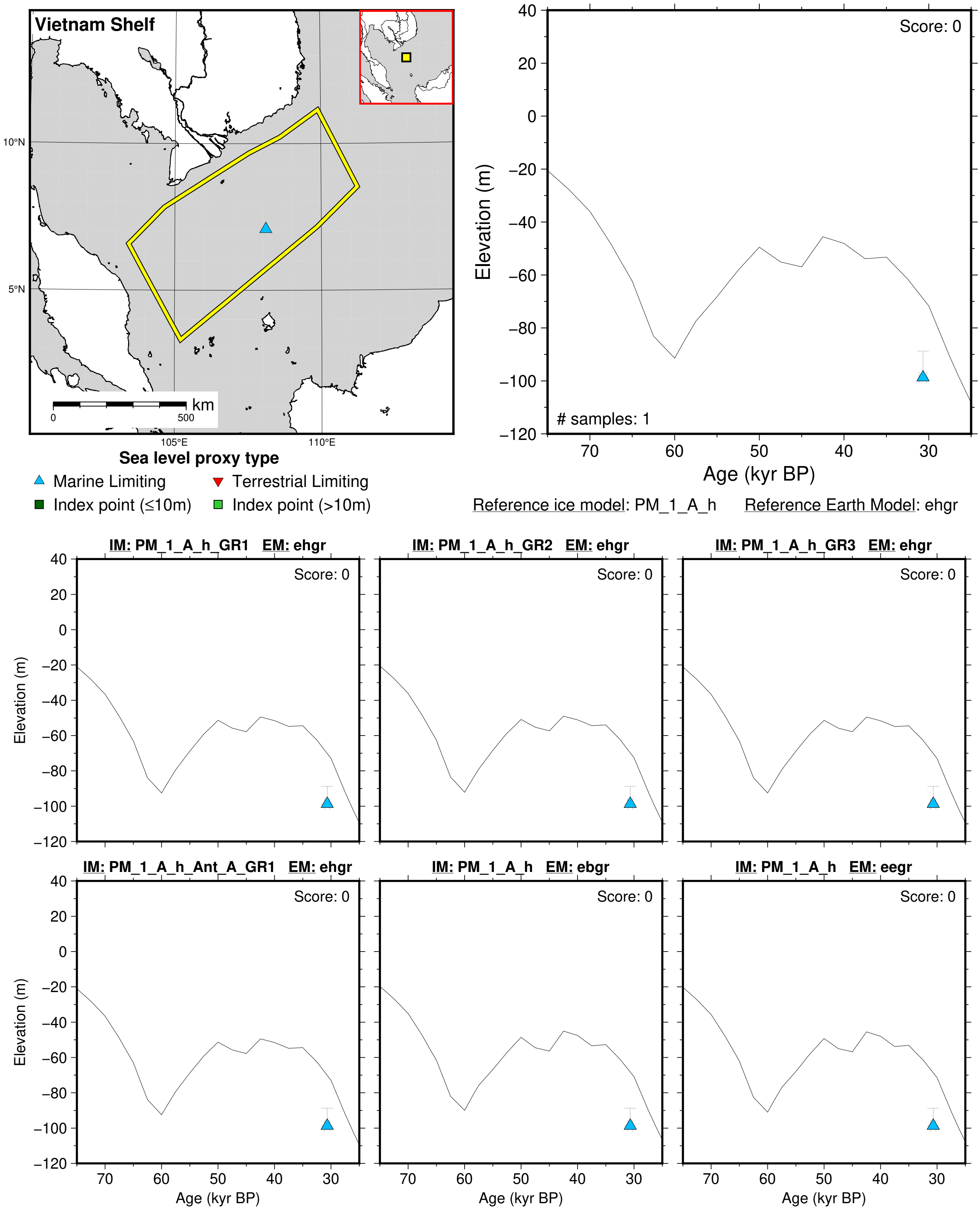

Figure 319: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Vietnam Shelf. References: Schimanski and Stattegger (2005).

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