

Global Archive of Paleo Sea Level Indicators and Proxies (GAPSLIP), version 2.0

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1 Introduction

One of the primary ways to assess the quality of paleo ice sheet reconstructions is to calculate the sea level change using a glacial isostatic adjustment (GIA) program, and compare the modelled sea level with records of past relative sea level. By comparing the spatial and temporal pattern of sea level changes, it becomes possible to deduce the history of the evolution of ice sheets. To accomplish this, I have created a framework called the Global Archive of Paleo Sea Level Indicators and Proxies (GAPSLIP). This framework can be found on Github (https://github.com/evangowan/paleo_sea_level), and is constantly being updated with new data. It contains a database of sea level indicators, that give an estimate of the position of past sea level, as well as marine and terrestrial limiting data and other sea level proxies. It also provides scripts to plot the data and put it into a unified report, like the one you are reading now.

There have been recent efforts to compile sea level records into a unified format. Most notably the HOLSEA project has been set up for compiling records of the past 15,000 years (Khan et al., 2019), and the WALIS (World Atlas of Last Interglacial Shorelines) database for the last interglacial period from 115,000 to 130,000 years ago (Rovere et al., 2023). For the HOLSEA project, regional scrutinized datasets have been assembled and placed into spreadsheets. The WALIS is a unified SQL database. At present, the HOLSEA project has many areas without compilations. There is also a lack of data compilations for the period between about 70,000 years ago to 15,000 years ago.

For the purpose of GIA assessment, it is necessary to put these compilations into a format that makes data-model comparison possible. The information provided in the HOLSEA formatted spreadsheets makes it easy to do this, but other datasets found outside of this framework often require additional information that may need to be manually collected. For example, sometimes the location of the data is presented only in a map in the study, so this must be determined using an external program like Google Earth. I have noted all the alterations and additions that were needed before inclusion in the database in the “scratch_datasets” folder in the Github repository.

The framework of this database makes it possible to re-calibrate radiocarbon dates, as many of the compilations were produced prior to the 2020 update of the calibration curves. The Marine20 marine calibration curve (Heaton et al., 2020) invalidated previous reservoir corrections due to a shift in the average ocean age, so it also was necessary to create new corrections via the Calib web tool (<http://calib.org/marine/>). Marine material in this database have been calibrated using Marine20 (Heaton et al., 2020), Northern Hemisphere terrestrial material with IntCal20 (Reimer et al., 2020), and Southern Hemisphere terrestrial material with SHCal20 (Hogg et al., 2020). All radiocarbon dates have been calibrated using OxCal version 4.4.4 (Bronk Ramsey, 2009). The database spreadsheets list the age uncertainty as 1-sigma. In the plots the calibrated ages, and the non-radiocarbon ages, are displayed and analyzed using 2-sigma limits.

Whenever possible, I have tried to track down the original references to the data. This gives credit to the original authors, and also makes it easy for people to find more information if they need it. As of version 2.0, there are 1040 references in the database, most of which are data references. The references are collected in a bibtex file. For non-English studies, I have created fields that include the names, titles and journal names in the original language if available. Titles have been translated using DeepL (<https://www.deepl.com/translator>) when an English title is not given.

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 disorganized 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: May 11, 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 linearly interpolated version, which should produce more accurate results in ice covered areas. This interpolation has 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.

3.2 Earth models

ehgr - 120 km thick lithosphere, 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) referred 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 have 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

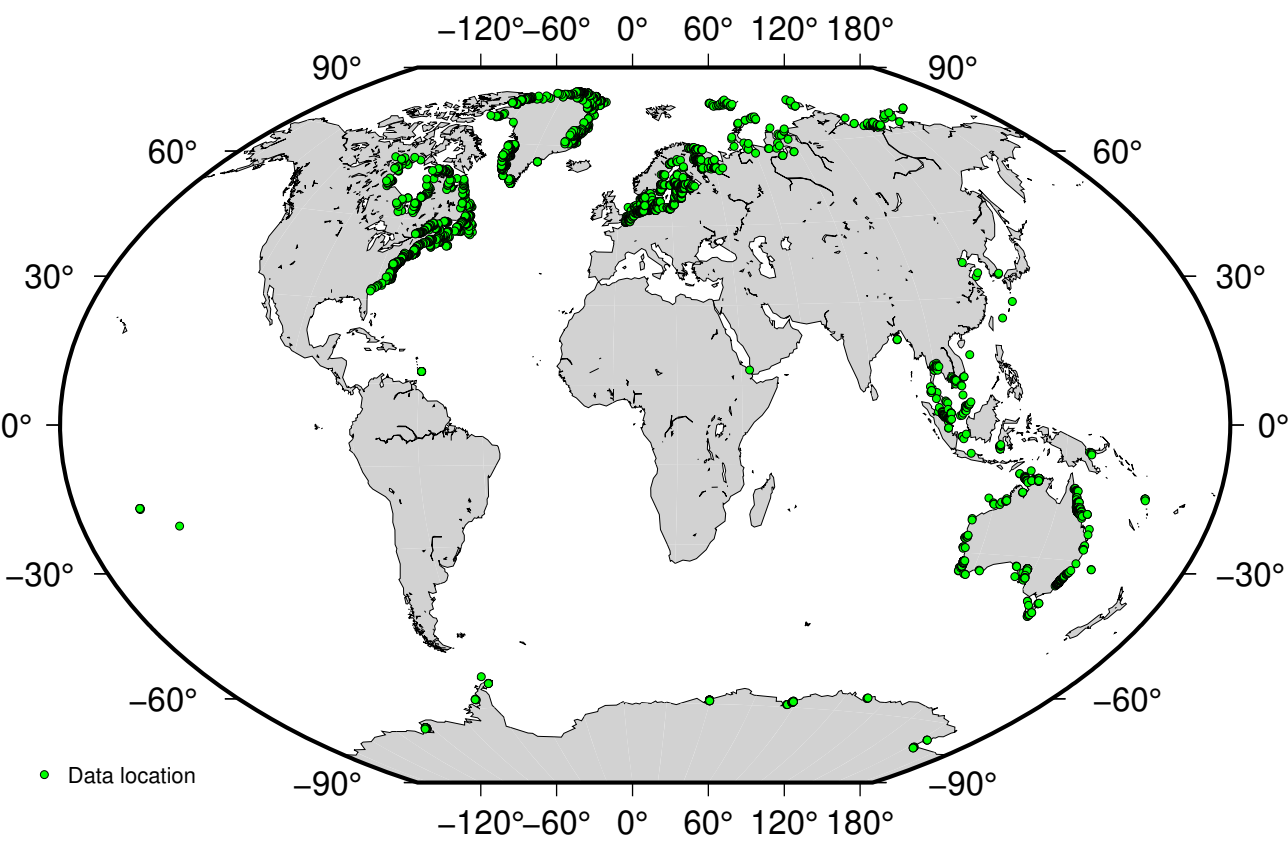


Figure 1: Map showing the location of data entered into the database.

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
Total	170	94	55	21	559
Langhovde	51	51	0	0	210
Larsemann Hills	12	2	10	0	53
Ongul Islands	36	7	29	0	48
Rauer Group	32	24	8	0	68
Southern Scott Coast	8	1	0	7	145
Terra Nova Bay	13	4	4	5	7
Vestfold Hills	13	5	0	8	1
Windmill Islands	5	0	4	1	27

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
Total	93	13	54	26	179
James Ross Island	9	9	0	0	0
King George Island	8	0	7	1	10
Marguerite Bay	13	1	12	0	87
Pine Island Bay	63	3	35	25	82

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
Total	249	139	6	104	228
Lord Howe Island	5	0	0	5	20
Nambucca Heads	5	0	0	5	16
Newcastle	12	0	0	12	51
Sydney	32	3	2	27	43
Ulladulla	74	50	0	24	39
Wollongong	121	86	4	31	59

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
Total	268	39	0	229	564
Bonaparte Gulf	90	19	0	71	211
Bonaparte Gulf SLI	84	20	0	64	135
Ishiwa2019					
Bonaparte Gulf SLI	16	0	0	16	191
Yokoyama2000					
Cambridge Gulf	4	0	0	4	0
Darwin	5	0	0	5	3
Eastern Timor Sea	1	0	0	1	0
Sahul Shelf SLI	2	0	0	2	0
Ishiwa2019					
Sahul Shelf SLI	2	0	0	2	0
Yokoyama2000					
South Alligator River	64	0	0	64	24

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
Total	1078	62	0	1016	4748
Bowen	57	0	0	57	428
Brisbane	7	0	0	7	20
Cairns	322	6	0	316	1722
Cape Melville	69	18	0	51	237
Gladstone	3	0	0	3	5
Hydrographers Passage	281	38	0	243	590
Sunshine Coast	3	0	0	3	14
Townsville	336	0	0	336	1732

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
Total	208	80	0	128	511
Franklin Harbour	15	7	0	8	42
Gulf St Vincent	84	32	0	52	197
Port Lincoln	12	2	0	10	37
Redcliff	73	24	0	49	171
Smoky Bay	24	15	0	9	64

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
Total	28	5	7	16	38
Circular Head	1	0	1	0	0
Flinders Island	4	1	0	3	5
Glamorgan-Spring Bay	12	0	0	12	27
Hobart	9	4	4	1	6
King Island	2	0	2	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
Total	176	0	0	176	634
Albany	4	0	0	4	7
Broome	2	0	0	2	2
Bunbury	22	0	0	22	38
Cape Leeuwin	4	0	0	4	6
Esperance	3	0	0	3	7
Exmouth Gulf	17	0	0	17	6
Geraldton	30	0	0	30	69
King Sound	9	0	0	9	0
Perth	63	0	0	63	104
Rowley Shoals	10	0	0	10	370
Shark Bay	12	0	0	12	25

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
Total	196	0	0	196	1029
Barbados	196	0	0	196	1029

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
Total	7	6	1	0	1
Miyakojima	7	6	1	0	1

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
Total	13	6	0	7	264
Tsushima-Korea Strait	13	6	0	7	264

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
Total	170	21	0	149	582
Proliv Markama	123	15	0	108	398
Zemlya Georga	44	4	0	40	138
Zemlya Zichy	3	2	0	1	46

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
Total	90	8	19	63	286
Baydaratskaya Bay	2	0	1	1	4
Gulf of Ob	11	0	8	3	1
Kara Sea shelf	2	2	0	0	0
Khalmyer Bay	5	0	3	2	226
Ostrov Sibiryakova	3	0	3	0	0
Pechora Sea	5	4	1	0	41
Severnny Island North	36	0	0	36	12
Severnny Island West	19	1	0	18	2
Vaygach Island	3	0	0	3	0
Yuzhny Island	4	1	3	0	0

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
Total	43	16	1	26	86
Murmansk	21	8	1	12	29
Pechengsky	17	7	0	10	41
Voronya River	5	1	0	4	16

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
Total	125	90	23	12	760
Lena Delta	60	60	0	0	285
New Siberian Islands	8	0	0	8	13
Olenyok Gulf	29	18	11	0	30
Severnaya Zemlya	16	5	11	0	325
West Laptev Sea	10	7	1	2	71
Zhokhov Island	2	0	0	2	36

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
Total	177	16	41	120	314
Belomorsk	8	0	7	1	0
Chupa Bay	15	0	3	12	82
Dvina Gulf	82	4	12	66	47
Eastern Kola Peninsula	5	0	5	0	0
Engozero	8	0	1	7	9
Kandalaksha	8	1	0	7	33
Kholmogorsky	3	0	3	0	0
Lesozavodskiy	13	5	0	8	22
Onega Peninsula	9	3	2	4	8
Rugozerskiy Peninsula	15	1	8	6	15
Umba	11	2	0	9	98

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
Total	315	38	174	103	4310
Helsinki	9	0	0	9	151
Hiiumaa	50	14	28	8	437
Lahemaa	7	0	0	7	55
Narva-Luga	58	11	37	10	438
Paldiski	7	0	0	7	80
Parnu	92	3	79	10	1811
Porvoo	10	0	0	10	125
Riga	20	7	13	0	91
Salo	18	0	0	18	343
South Saaremaa	7	0	6	1	156
St Petersburg	1	0	0	1	4
Tallinn	20	0	8	12	382
Virolahti	4	0	0	4	89
Vyborgsky District	6	0	0	6	110
West Gulf Of Riga	6	3	3	0	38

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
Total	76	0	2	74	860
Aland	3	0	0	3	28
Alvsbyn	6	0	2	4	37
Angermanland	14	0	0	14	106
Central Finland	1	0	0	1	20
Gastrikland	16	0	0	16	57
Gunnarsbyn	8	0	0	8	134
Oulu	2	0	0	2	28
Satakunta	1	0	0	1	21
South Lapland	4	0	0	4	29
South Ostrobothnia	3	0	0	3	58
Turku	18	0	0	18	342

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
Total	417	20	59	338	757
Belgium	22	0	0	22	65
Bremerhaven	51	0	0	51	41
Central Netherlands	27	0	0	27	105
Dogger Bank	1	0	0	1	16
Elbe	23	0	0	23	6
German Bight	13	0	0	13	49
Ho Bugt	20	0	0	20	26
Langeoog	1	0	0	1	0
Limfjord	27	20	7	0	23
Netherlands Wadden Sea	5	0	0	5	12
Norderney	56	0	0	56	33
Oyster Ground	2	0	0	2	3
Rotterdam	165	0	52	113	368
Southern Bight	4	0	0	4	10

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
Total	339	200	107	32	346
Asa	5	0	0	5	64
Bohuslan	5	0	0	5	25
Goteborg	2	0	0	2	33
Halmstad	1	0	0	1	16
Kattegat	26	26	0	0	0
Kieler Bucht	3	3	0	0	19
Laesoe	3	2	0	1	1
Lillebaelt	25	14	11	0	67
Samso Belt	66	47	8	11	9
Storebaelt	65	25	38	2	46
Copenhagen	78	28	49	1	35
Treoa Moellebugt	4	4	0	0	0
Vendsyssel Thy	56	51	1	4	31

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
Total	489	112	206	171	1586
Achterwasser	26	0	6	20	76
Arkona Basin East	30	29	0	1	205
Arkona Basin West	24	12	11	1	52
Baltic South	2	2	0	0	7
Baltic Southwest	7	6	0	1	6
Blekinge	38	2	10	26	117
Curonian Spit	1	1	0	0	0
Fakse Bugt	11	7	4	0	132
Havang	54	1	43	10	84
Lithuania	43	25	18	0	142
Lubeck	69	18	36	15	290
Ostergotland	6	0	0	6	29
Rugen	53	5	8	40	211
Salt Meadows	43	0	1	42	110
Sodermanland	9	0	0	9	44
South Vistula	49	2	47	0	27
Ustka	2	0	2	0	0
Ventspils	5	1	4	0	48
West Gulf Of Gdansk	17	1	16	0	6

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
Total	534	443	29	62	6881
Cape Morris Jesup	73	67	6	0	841
Danmarks Fjord	30	27	0	3	733
Frederick E Hyde Fjord	16	14	1	1	259
Germania Land	14	14	0	0	255
Hochstetter Forland	20	12	8	0	228
Hold With Hope	17	16	0	1	84
Independence Fjord	12	11	1	0	69
JP Koch Fjord	2	2	0	0	33
Jameson Land	17	12	5	0	57
Kap Clarence Wyckoff	32	29	0	3	795
Kempes Fjord	10	10	0	0	31
Kong Oscars Fjord	53	50	0	3	183
Nansen land	6	6	0	0	90
Nioghalvfjedsfjorden	17	17	0	0	220
Prinsesse Ingeborg Halvø	67	63	1	3	1102
Renland	5	4	1	0	0
Schuchert Dal	97	63	0	34	1631
Traill Oe	19	18	0	1	94
Young Sound	27	8	6	13	176

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
Total	150	81	6	63	2035
Bessel Fjord	36	3	0	33	373
Cass Fjord	16	15	1	0	122
Hall Land	66	37	0	29	528
Inglefield Fjord	10	6	4	0	191
Nordvestoe	3	3	0	0	93
Thule	11	10	0	1	668
Tuttulissuaq	1	0	1	0	0
Warming Land	4	4	0	0	51
Wulff land	3	3	0	0	9

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
Total	6	0	2	4	20
Ammassalik	6	0	2	4	20

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
Total	320	114	59	147	11283
Akulliit	24	10	1	13	719
Alluttoq Island	10	0	2	8	284
Egalussuit Tasiat	5	5	0	0	252
Ikertooq Fjord	7	5	0	2	416
Ilulissat	12	2	3	7	201
Itilleq	11	2	0	9	265
Kangerluk	9	0	0	9	447
Kangerlussuaq	34	20	4	10	935
Kannala	33	3	3	27	1125
Kapisillit	26	8	17	1	235
Maniitsoq	5	5	0	0	251
Nanortalik	24	0	0	24	917
Nuuk	44	25	19	0	1096
Paamiut	10	0	1	9	541
Qaqortoq	30	11	0	19	1410
Qeqertarsuatsiaat	11	11	0	0	730
Sisimiut	12	3	0	9	1215
Tasiussarsuaq	13	4	9	0	244

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
Total	243	114	68	61	2508
Churchill	23	10	7	6	122
East James Bay	36	20	9	7	589
Inukjuak	21	11	2	8	72
Ivujivik	21	14	2	5	40
Kivalliq	31	21	5	5	226
Umiujaq	94	34	33	27	1358
West James Bay	17	4	10	3	101

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
Total	86	65	18	3	943
Kangiqsujuaq	14	13	1	0	138
Southern Ungava Bay	7	2	2	3	106
Sugluk	40	30	10	0	572
Western Ungava Bay	25	20	5	0	127

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
Total	357	138	38	181	919
Eastern Shore	28	7	6	15	72
Inner Chesapeake	106	99	0	7	176
Inner Delaware	38	2	8	28	104
Northern North Carolina	60	23	6	31	225
Northern South Carolina	18	0	8	10	48
Outer Delaware	60	5	5	50	172
Southern North Carolina	24	2	3	19	40
Southern South Carolina	23	0	2	21	82

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
Total	61	16	45	0	230
Hamilton Inlet	15	3	12	0	0
Lake Melville	12	4	8	0	5
Nain	16	2	14	0	8
Torngat	18	7	11	0	217

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
Total	533	121	122	290	1654
Anticosti Island	24	13	3	8	252
Cape Breton	16	4	7	5	9
Chaleur Bay	15	10	5	0	5
Cumberland	112	6	15	91	54
Forestville	59	18	7	34	294
Halifax	48	15	4	29	11
Magdalen Islands	22	2	11	9	8
Passamaquoddy Bay	28	8	11	9	23
Prince Edward Island	31	9	6	16	27
Quebec City	69	18	28	23	148
Rimouski	90	17	15	58	818
Sable Island	10	1	6	3	3
Shelburne	9	0	4	5	2

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
Total	160	53	61	46	372
Avalon Peninsula	13	3	5	5	4
Bay Of Islands	16	5	3	8	18
Great Northern Peninsula	56	16	23	17	208
Notre Dame Bay	29	12	13	4	20
Port Aux Basques	46	17	17	12	122

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
Total	479	51	117	311	1273
Connecticut	95	0	41	54	85
Eastern Maine	49	0	4	45	104
Long Island	25	0	6	19	129
New Jersey	62	6	11	45	200
New York	76	6	19	51	260
Northern Massachusetts	43	3	16	24	70
Southern Maine	86	24	6	56	331
Southern Massachusetts	43	12	14	17	94

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
Total	191	0	0	191	157
Mururoa	12	0	0	12	119
Tahiti	179	0	0	179	38

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
Total	82	11	0	71	19
Vanuatu	82	11	0	71	19

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
Total	165	0	0	165	29
Bab-el-Mandeb proxy	165	0	0	165	29

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
Total	5	4	0	1	5
Ganges Delta	5	4	0	1	5

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
Total	72	18	2	52	319
Belitung Island	25	0	0	25	114
Central Java	6	0	0	6	31
South Sulawesi	41	18	2	21	174

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
Total	58	35	0	23	14
Huon Peninsula	58	35	0	23	14

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
Total	2	0	2	0	0
Xisha Islands	2	0	2	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
Total	375	88	104	183	606
Ca Na	18	7	8	3	37
Chao Phraya	33	5	9	19	89
East Malay Peninsula	4	3	1	0	7
Mekong Delta	71	2	24	45	49
Phuket	40	20	13	7	41
Southeast Malay Peninsula	13	12	0	1	36
Strait Of Malacca	137	29	45	63	164
Sunda Shelf	49	7	3	39	163
Thale Noi	3	0	1	2	6
Vietnam Shelf	5	1	0	4	12
West Malay Peninsula	2	2	0	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
Total	68	62	6	0	2723
Langhovde	19	19	0	0	813
Larsemann Hills	5	1	4	0	50
Ongul Islands	35	35	0	0	1683
Rauer Group	9	7	2	0	177

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
Total	11	3	0	8	217
Bonaparte Gulf	4	1	0	3	81
Bonaparte Gulf SLI	4	2	0	2	55
Ishiwa2019					
Bonaparte Gulf SLI	3	0	0	3	81
Yokoyama2000					

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
Total	74	22	0	52	744
Cairns	45	11	0	34	646
Hydrographers Passage	28	11	0	17	82
Townsville	1	0	0	1	16

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
Total	8	0	0	8	174
Barbados	8	0	0	8	174

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
Total	76	70	0	6	8
Kikaijima 1.9 mm	38	35	0	3	0
Kikaijima 2.1 mm	38	35	0	3	8

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
Total	4	1	1	2	77
Tsushima-Korea Strait	4	1	1	2	77

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
Total	11	11	0	0	2
South Bohai Sea	4	4	0	0	2
Yellow Sea	7	7	0	0	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
Total	9	9	0	0	201
Cape Morris Jesup	4	4	0	0	82
Kap Clarence Wyckoff	4	4	0	0	78
Nansen land	1	1	0	0	41

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
Total	23	5	15	3	104
Eastern Shore	6	1	5	0	13
Northern North Carolina	14	4	7	3	91
Southern North Carolina	3	0	3	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
Total	19	0	0	19	224
Mururoa	2	0	0	2	0
Tahiti	17	0	0	17	224

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
Total	6	0	0	6	25
Vanuatu	6	0	0	6	25

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
Total	15	0	15	0	0
Karimata Strait proxy	15	0	15	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
Total	318	0	0	318	5175
Bab-el-Mandeb proxy	318	0	0	318	5175

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
Total	2	1	0	1	27
Ganges Delta	2	1	0	1	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
Total	52	0	0	52	115
Huon Peninsula	40	0	0	40	55
Huon Peninsula de Gelder	12	0	0	12	60

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
Total	1	0	1	0	19
Xisha Islands	1	0	1	0	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
Total	33	14	17	2	283
Berhala Strait	2	0	1	1	16
Chao Phraya	3	3	0	0	77
Mekong Delta	1	1	0	0	20
Strait Of Malacca	11	2	9	0	10
Sunda Shelf	15	7	7	1	160
Vietnam Shelf	1	1	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 too 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

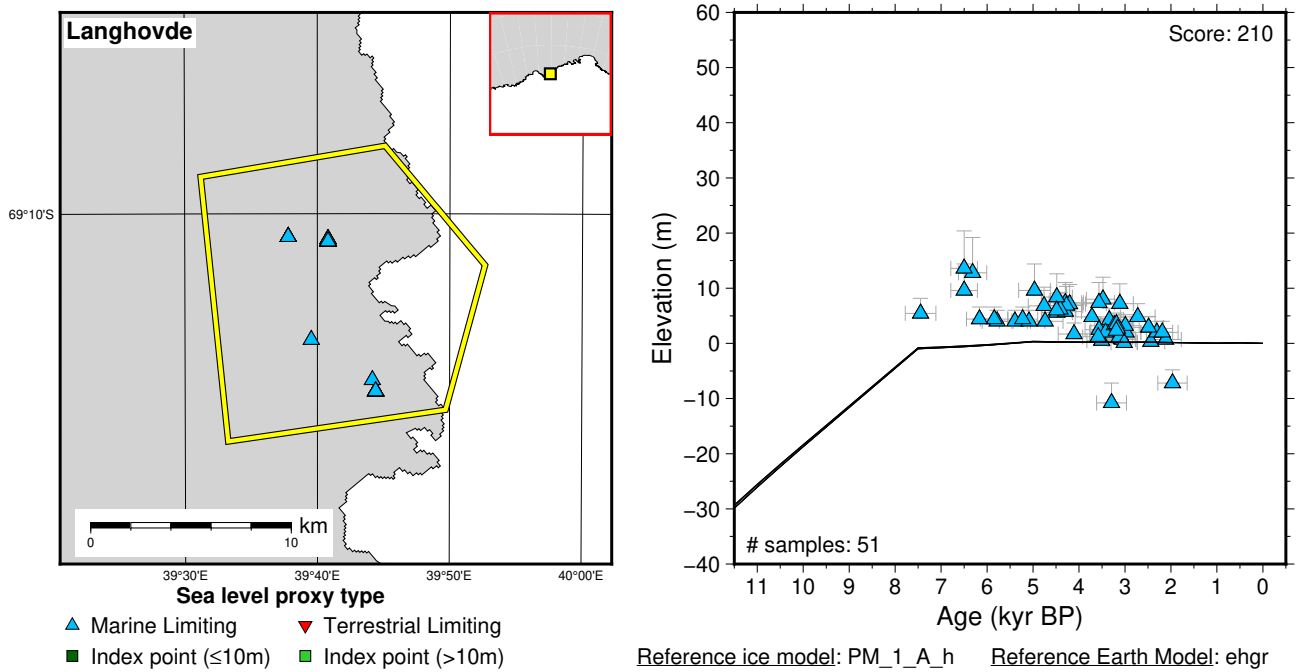


Figure 2: Paleo-sea level and comparison of six models for subregion: East Antarctica, location: Langhovde. References: Hayashi and Yoshida (1994); Hirakawa and Sawagaki (1998); Igarashi et al. (1995a,b); Ishiwa et al. (2021); Maemoku et al. (1997); Miura et al. (1998); Verleyen et al. (2017).

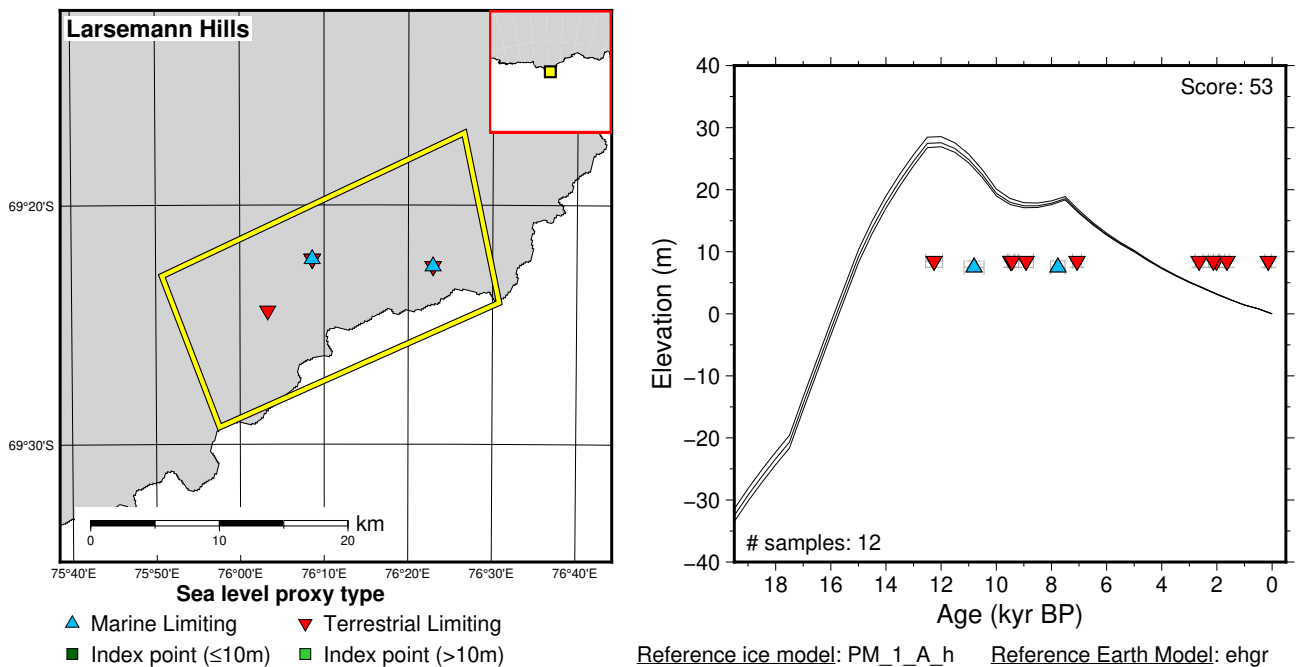


Figure 3: Paleo-sea level and comparison of six models for subregion: East Antarctica, location: Larsemann Hills. References: Hodgson et al. (2009); Ishiwa et al. (2021); Verleyen et al. (2005).

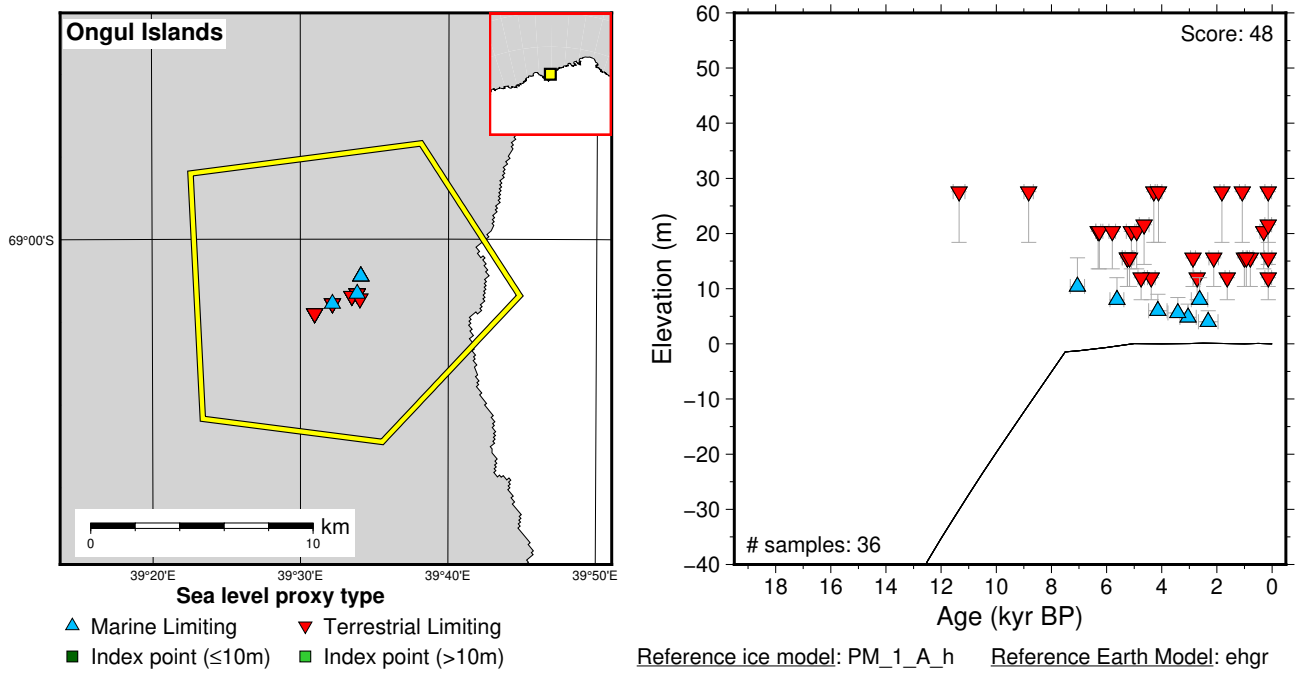


Figure 4: Paleo-sea level and comparison of six models for subregion: East Antarctica, location: Ongul Islands. References: Hirakawa and Sawagaki (1998); Ishiwa et al. (2021); Miura et al. (1998); Verleyen et al. (2017).

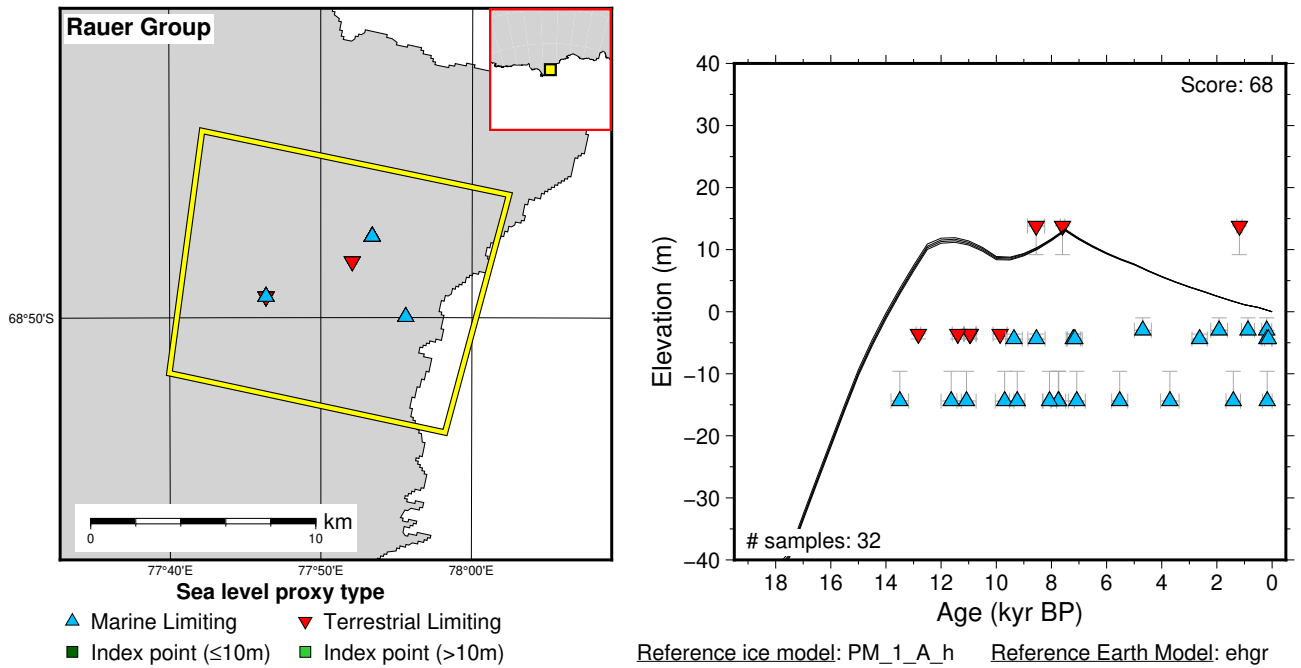
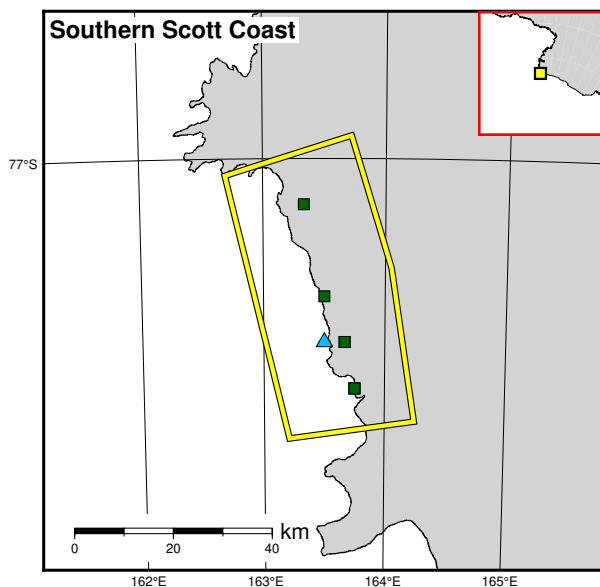
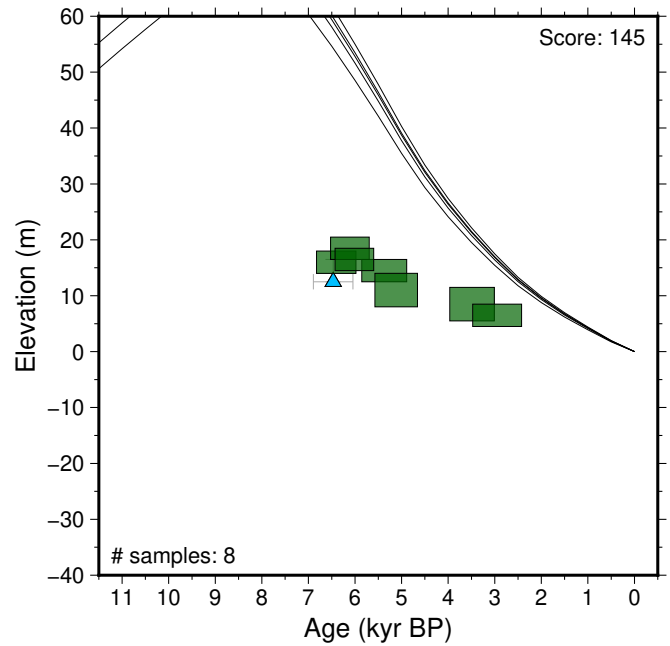


Figure 5: Paleo-sea level and comparison of six models for subregion: East Antarctica, location: Rauer Group. References: Berg et al. (2010a,b, 2016); Hodgson et al. (2016); Ishiwa et al. (2021).



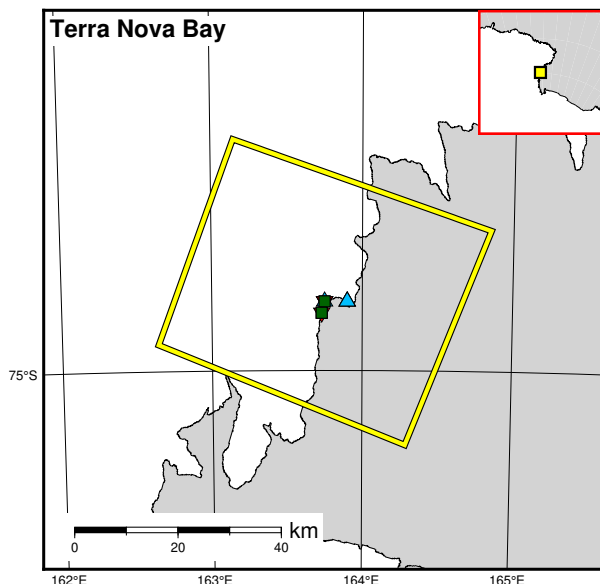
Sea level proxy type

- ▲ Marine Limiting
- Index point ($\leq 10\text{m}$)
- ▼ Terrestrial Limiting
- Index point ($> 10\text{m}$)



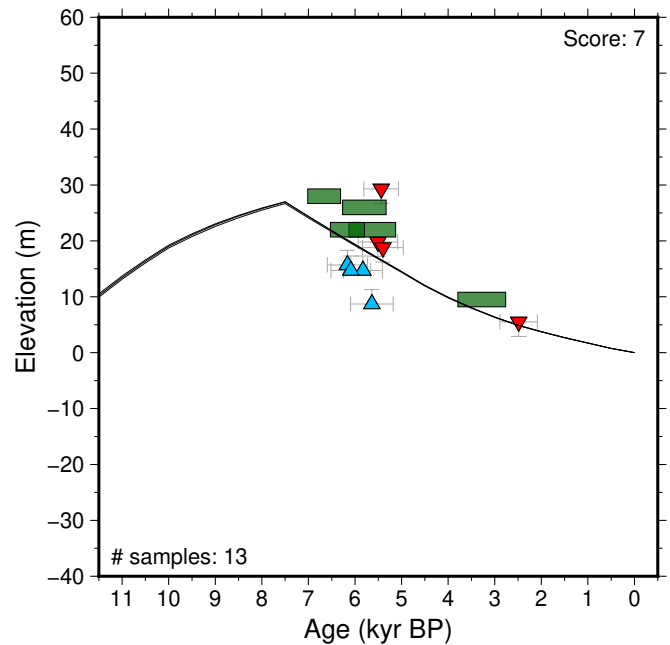
Reference ice model: PM_1_A_h Reference Earth Model: ehgr

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).



Sea level proxy type

- ▲ Marine Limiting
- Index point ($\leq 10\text{m}$)
- ▼ Terrestrial Limiting
- Index point ($> 10\text{m}$)



Reference ice model: PM_1_A_h Reference Earth Model: ehgr

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).

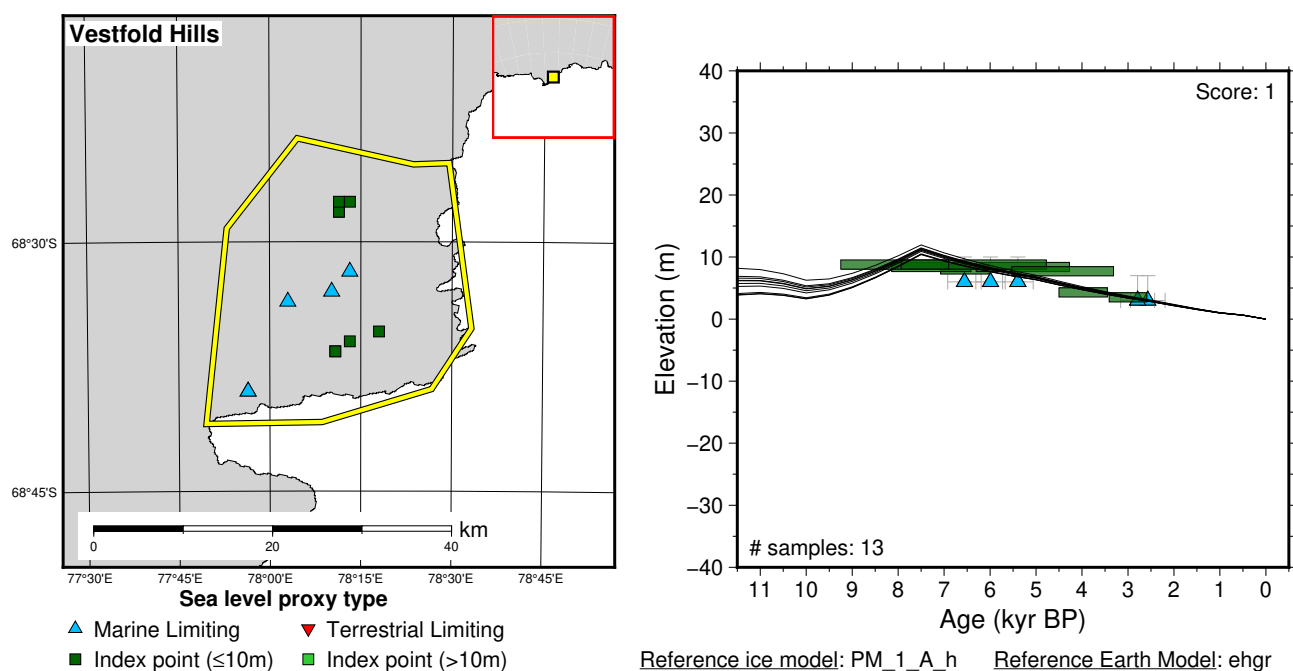


Figure 8: Paleo-sea level and comparison of six models for subregion: East Antarctica, location: Vestfold Hills. References: Briggs and Tarasov (2013); Zhang and Peterson (1984); Zwartz et al. (1998).

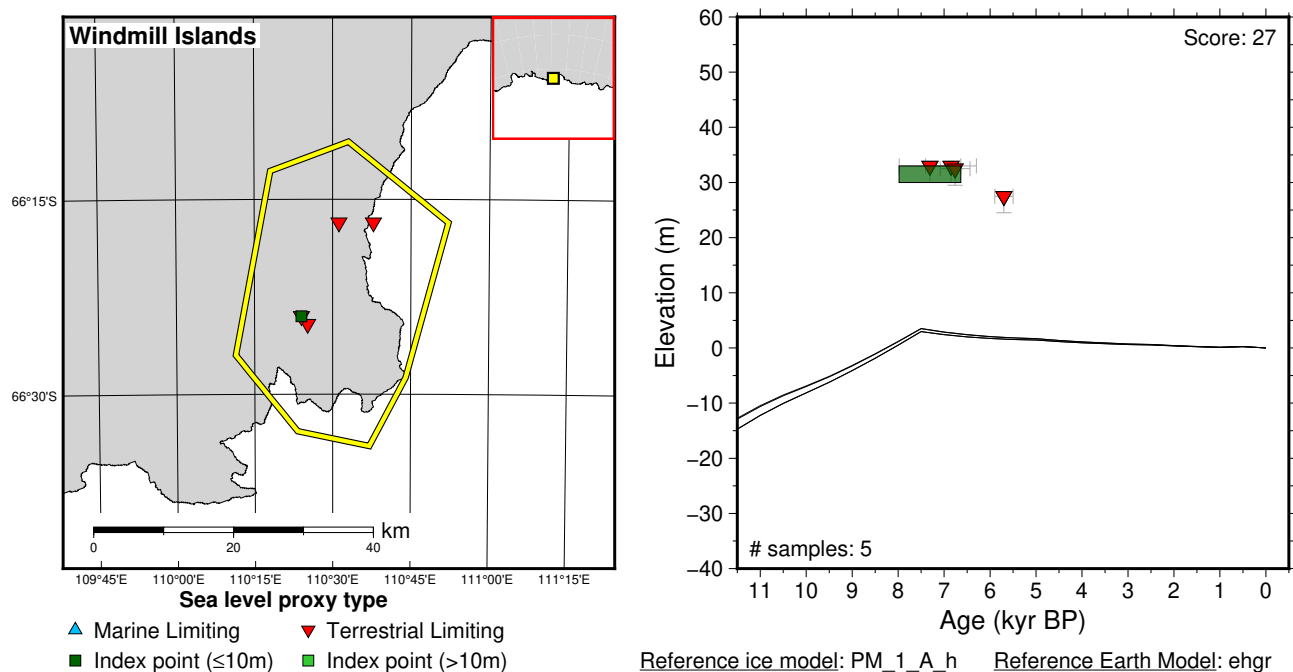


Figure 9: Paleo-sea level and comparison of six models for subregion: East Antarctica, location: Windmill Islands. References: Briggs and Tarasov (2013); Goodwin (1993); Goodwin and Zweck (2000).

6.1.2 West Antarctica

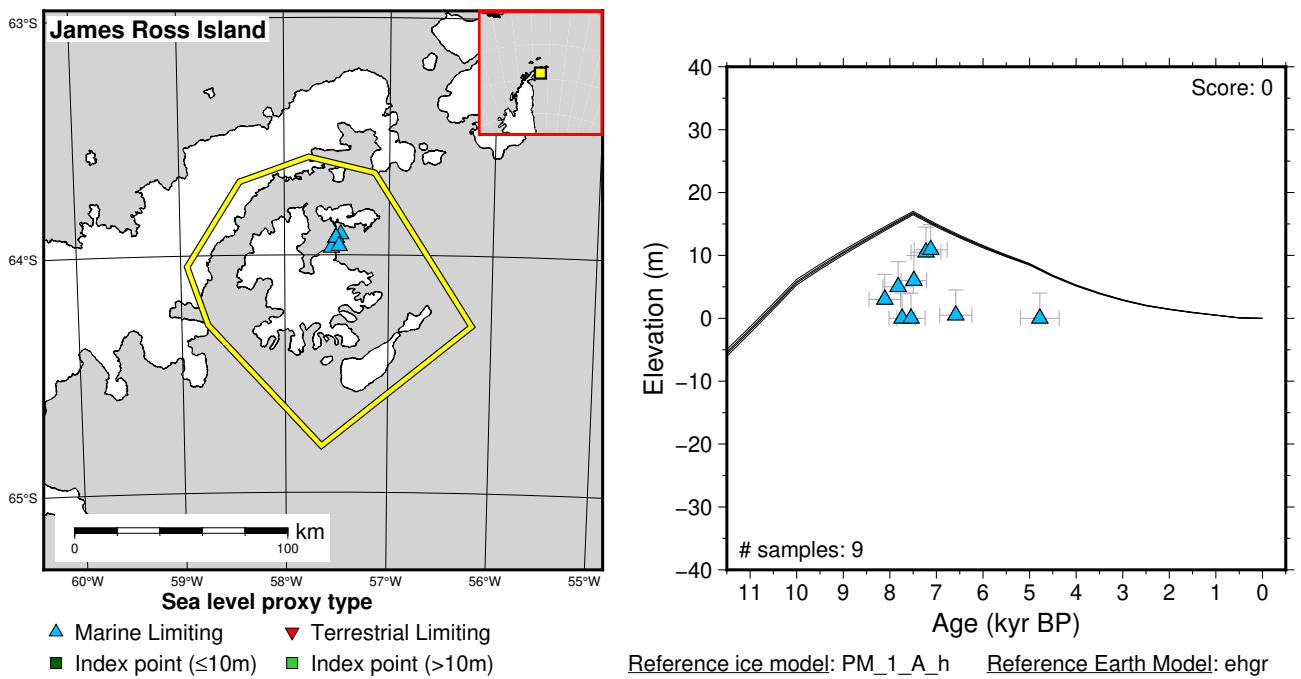


Figure 10: Paleo-sea level and comparison of six models for subregion: West Antarctica, location: James Ross Island. References: Hjort et al. (1997).

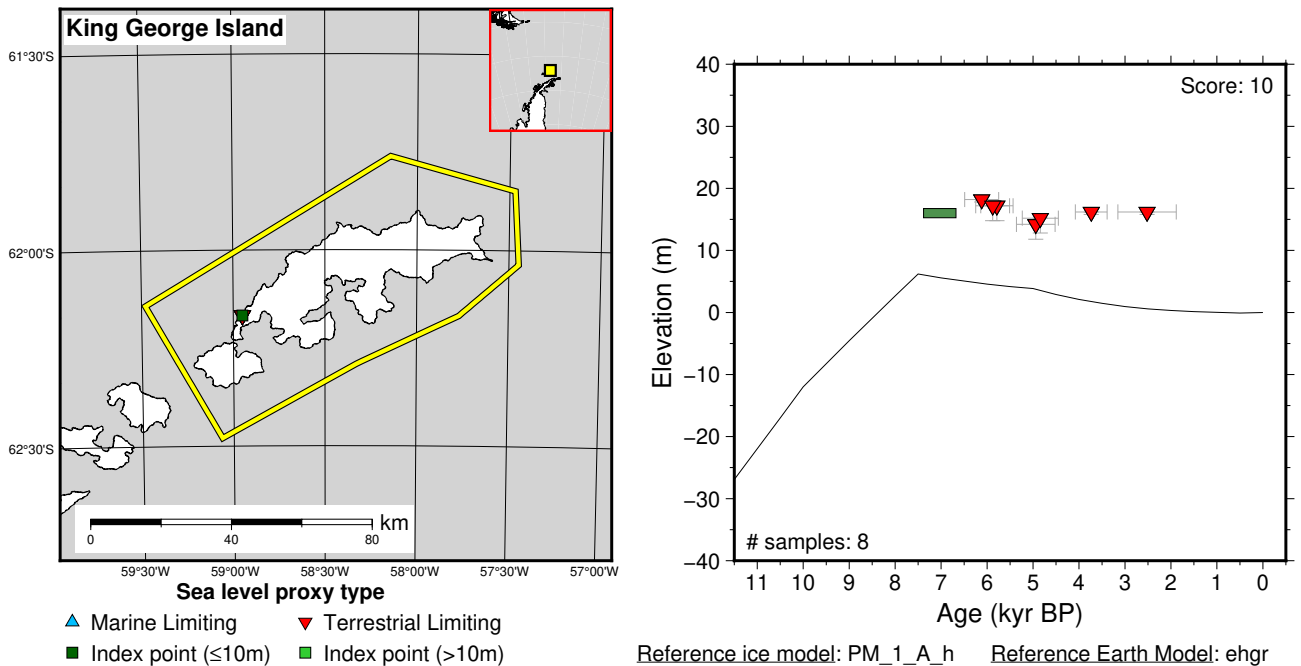


Figure 11: Paleo-sea level and comparison of six models for subregion: West Antarctica, location: King George Island. References: Barsch and Mäusbacher (1986); Bentley et al. (2005); Briggs and Tarasov (2013); Del Valle et al. (2002); Martinez-Macchiavello et al. (1996); Schmidt et al. (1990).

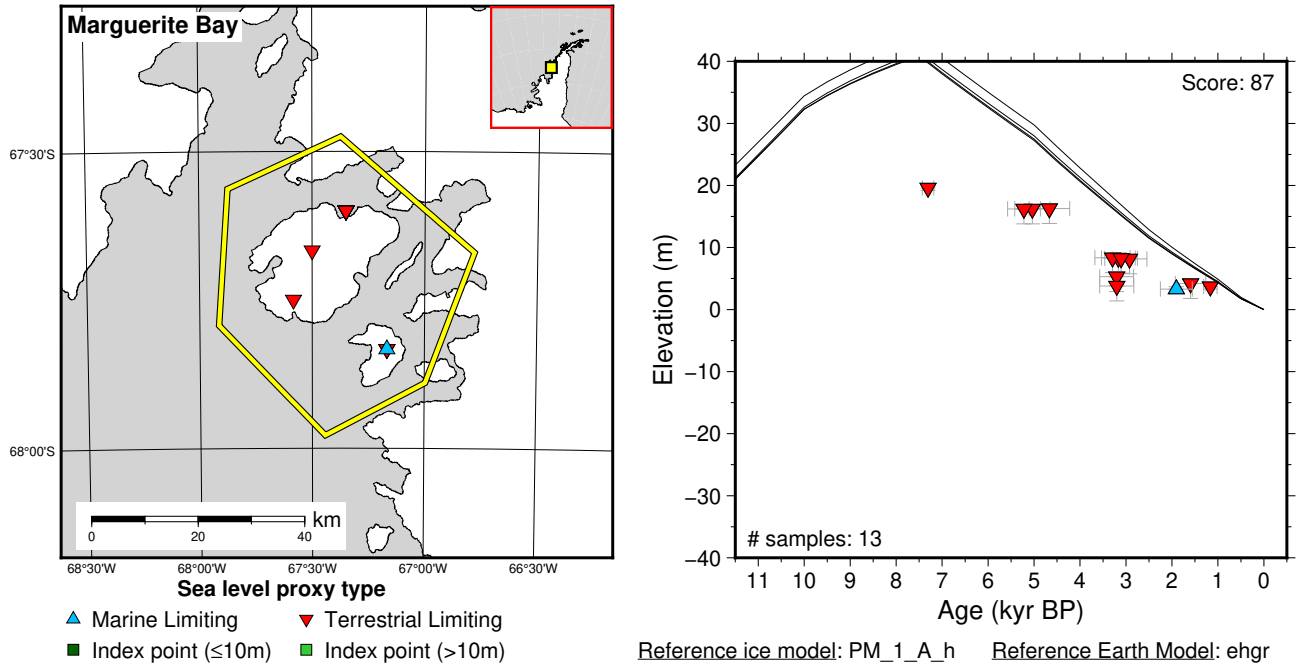


Figure 12: Paleo-sea level and comparison of six models for subregion: West Antarctica, location: Marguerite Bay. References: Bentley et al. (2005); Briggs and Tarasov (2013); Emslie and McDaniel (2002); Wasell and Håkansson (1992).

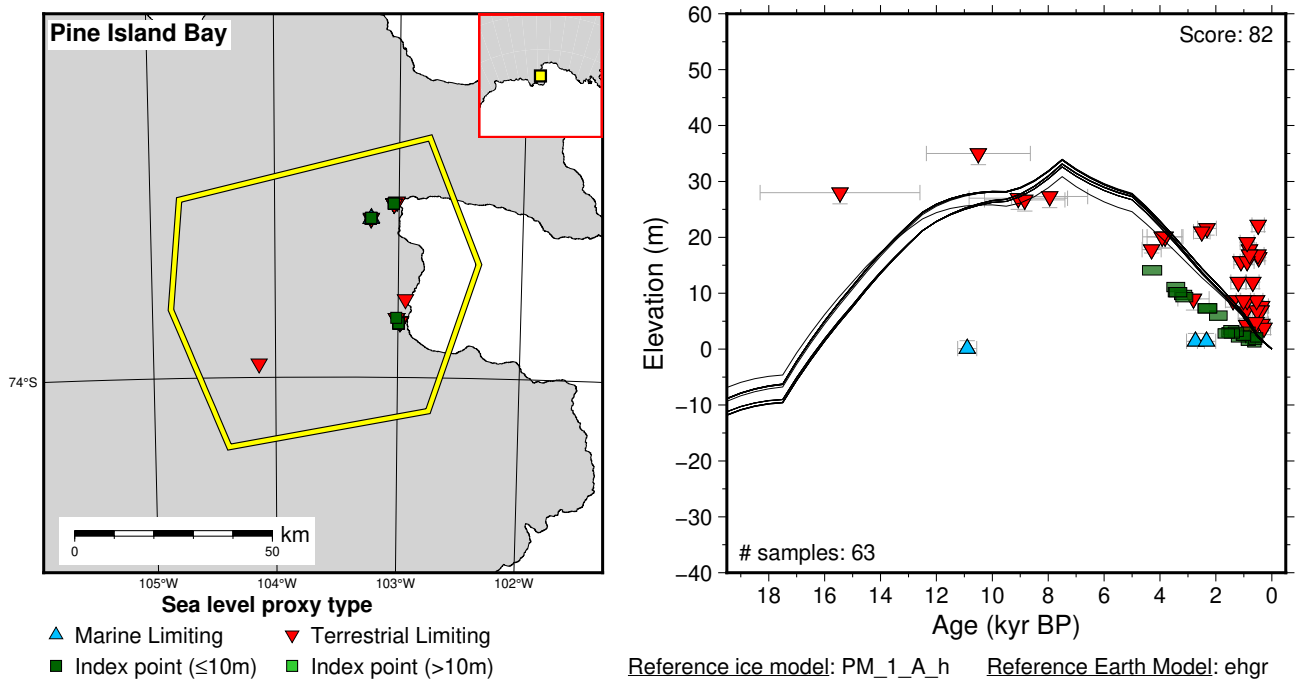


Figure 13: Paleo-sea level and comparison of six models for subregion: West Antarctica, location: Pine Island Bay. References: Braddock et al. (2022); Johnson et al. (2008); Lindow et al. (2014).

6.2 Australia

6.2.1 New South Wales

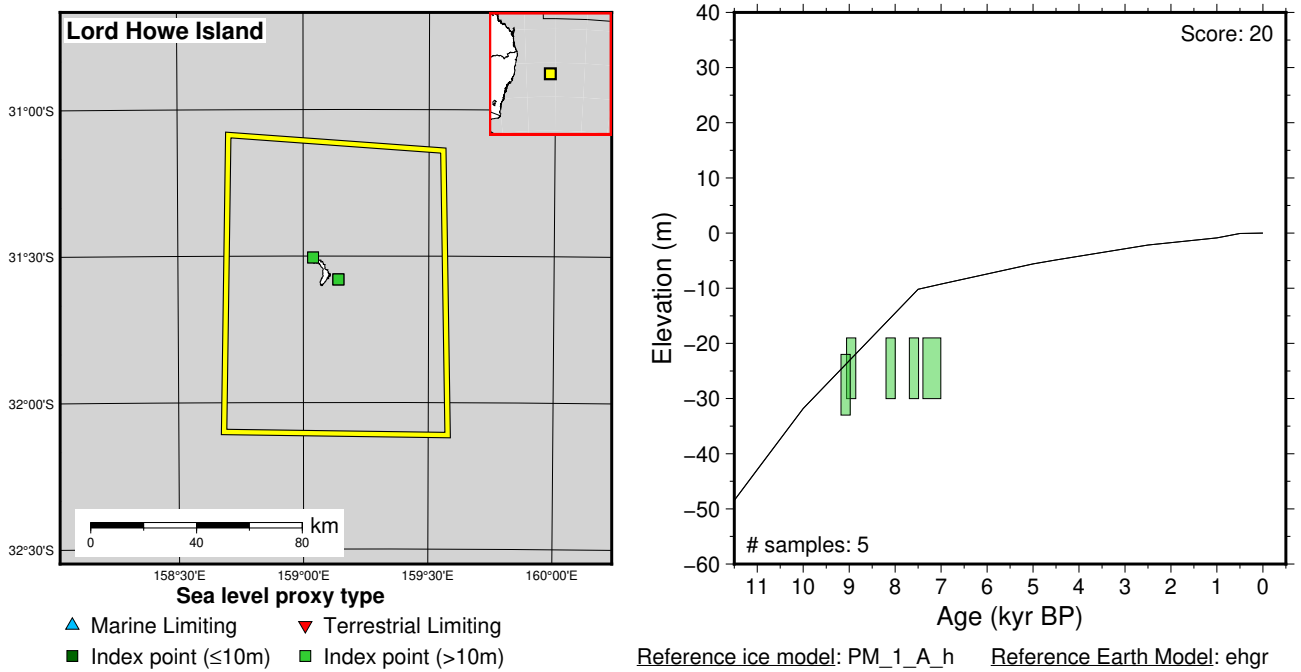


Figure 14: Paleo-sea level and comparison of six models for subregion: New South Wales, location: Lord Howe Island. References: Lewis et al. (2013); Woodroffe et al. (2010).

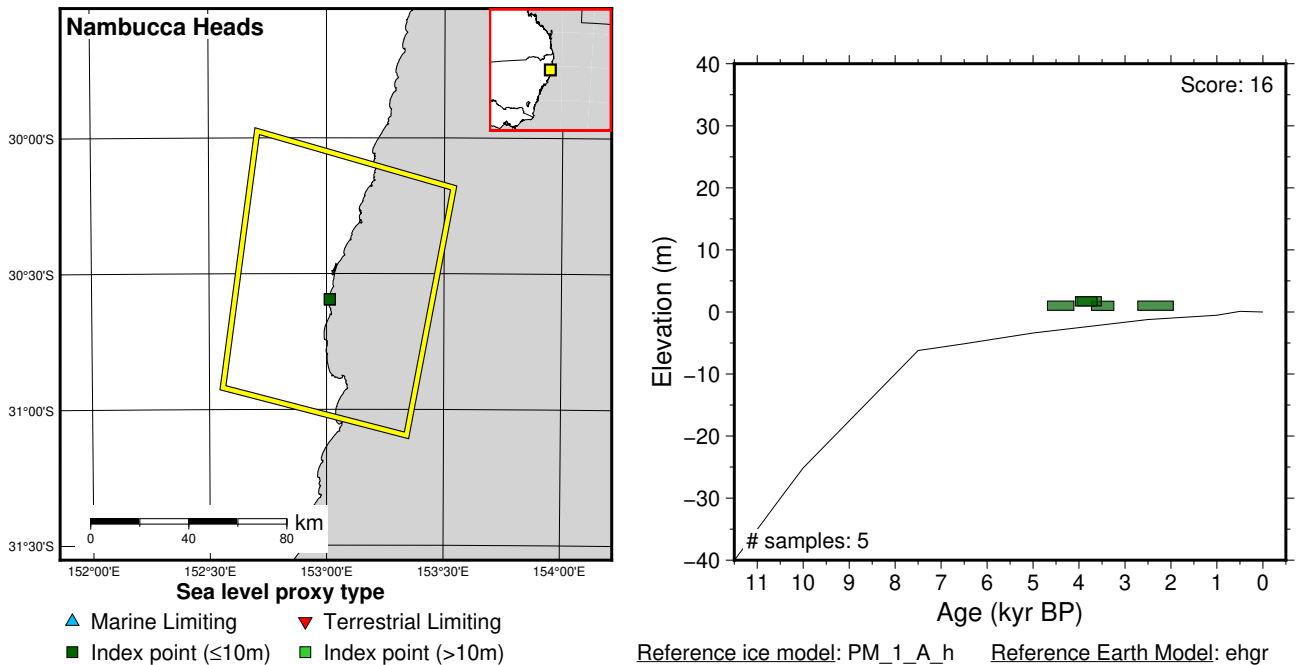


Figure 15: Paleo-sea level and comparison of six models for subregion: New South Wales, location: Nambucca Heads. References: Baker et al. (2001a,b); Flood and Frankel (1989); Haworth et al. (2002); Lewis et al. (2013); Sloss et al. (2007).

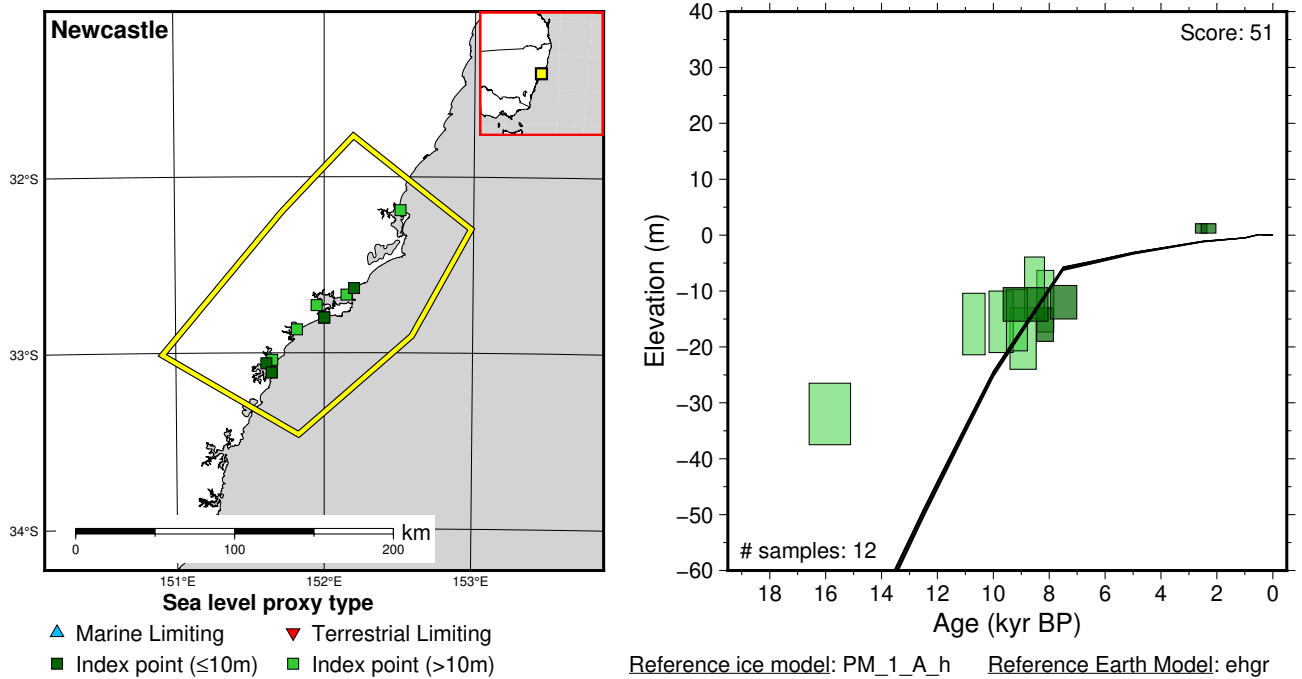


Figure 16: Paleo-sea level and comparison of six models for subregion: New South Wales, location: Newcastle. References: Baker et al. (2001a,b); Gillespie and Temple (1976); Haworth et al. (2002); Lewis et al. (2013); Sloss et al. (2007); Thom and Chappell (1975); Thom and Roy (1983).

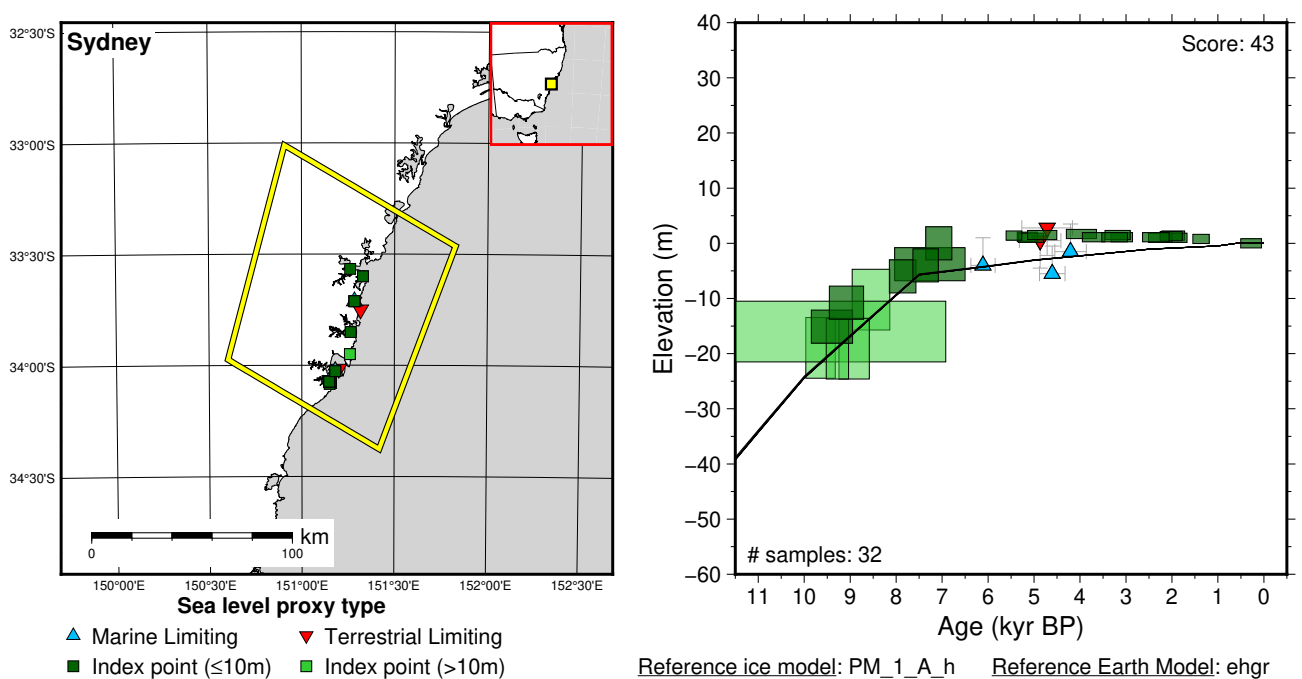


Figure 17: Paleo-sea level and comparison of six models for subregion: New South Wales, location: Sydney. References: Baker et al. (2001a); Baker and Haworth (2000, 1997); Baker et al. (2001b); Haworth et al. (2002); Lewis et al. (2013); Roy and Crawford (1981); Sloss et al. (2007); Thom and Chappell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

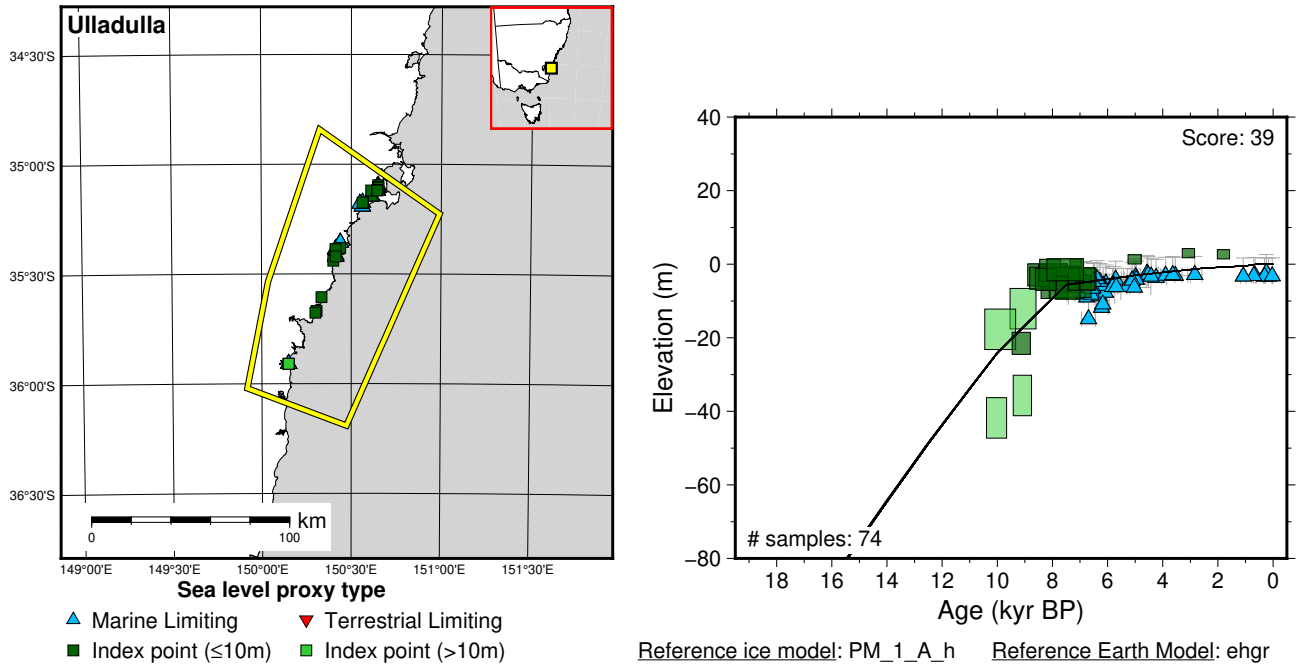


Figure 18: Paleo-sea level and comparison of six models for subregion: New South Wales, location: Ulladulla. References: Baker et al. (2001b); Haworth et al. (2002); Lewis et al. (2013); Sloss et al. (2004); Sloss (2005); Sloss et al. (2006, 2007, 2019); Thom and Chappell (1975).

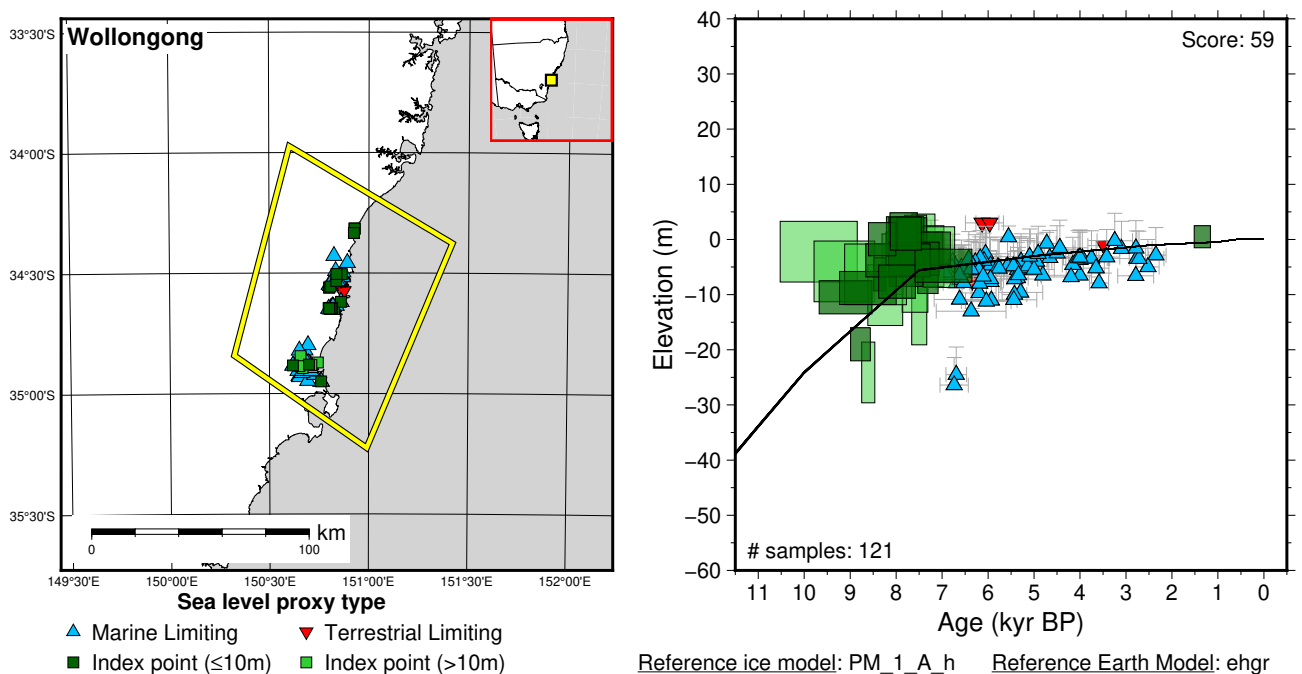


Figure 19: Paleo-sea level and comparison of six models for subregion: New South Wales, location: Wollongong. References: Bryant et al. (1992); Carne (1981); Jones et al. (1979); Jones (1990); Lewis et al. (2013); Murray-Wallace et al. (2000); Panayotou (2004); Sloss et al. (2004); Sloss (2005); Sloss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

6.2.2 Northern Australia

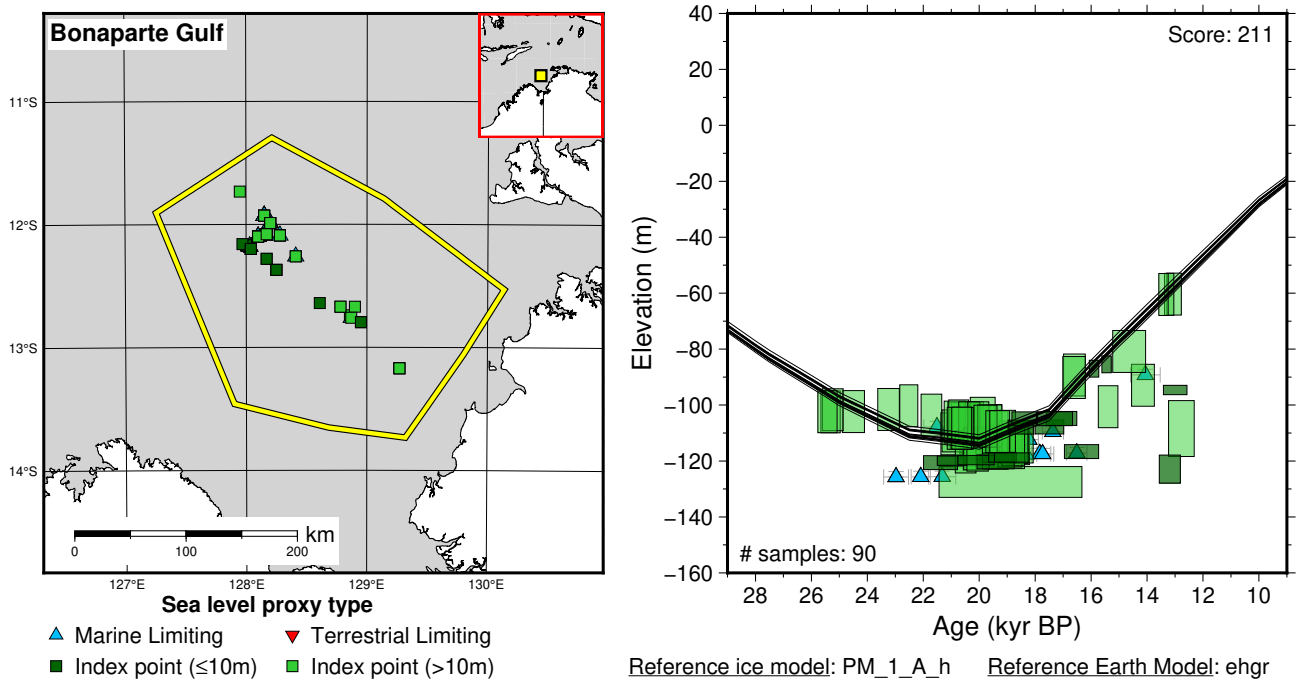


Figure 20: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: Bonaparte Gulf. References: Hubbs and Bien (1967); Ishiwa et al. (2019); Lewis et al. (2013); Nicholas et al. (2014); van Andel et al. (1967); Yokoyama et al. (2000).

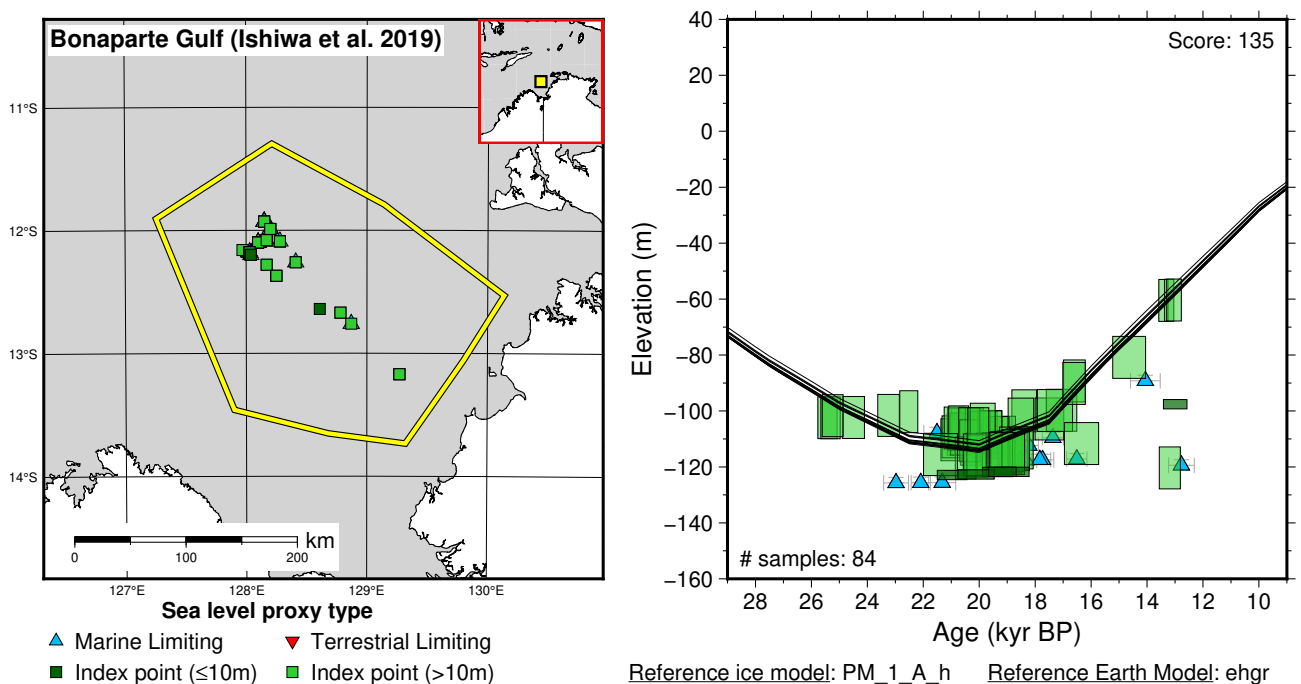


Figure 21: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: Bonaparte Gulf (Ishiwa et al. 2019 interpretation). References: Ishiwa et al. (2019); Yokoyama et al. (2000).

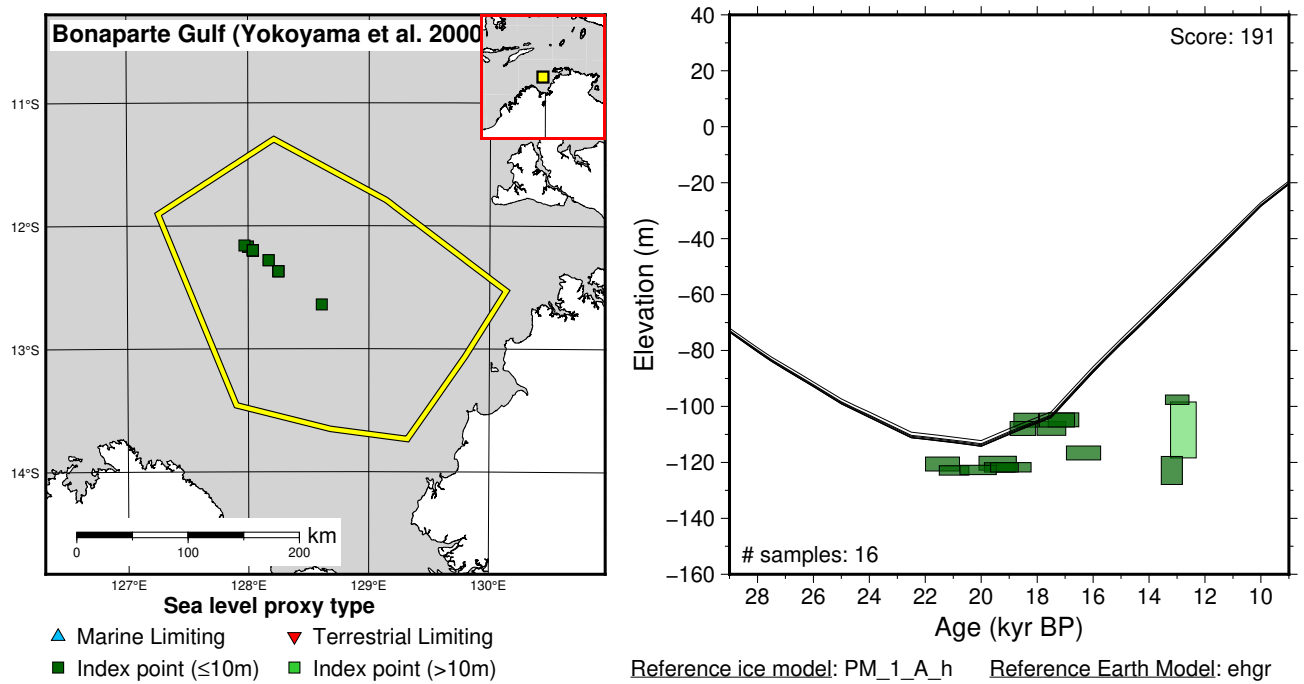


Figure 22: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: Bonaparte Gulf (Yokoyama *et al.* 2000 interpretation). References: Yokoyama *et al.* (2000).

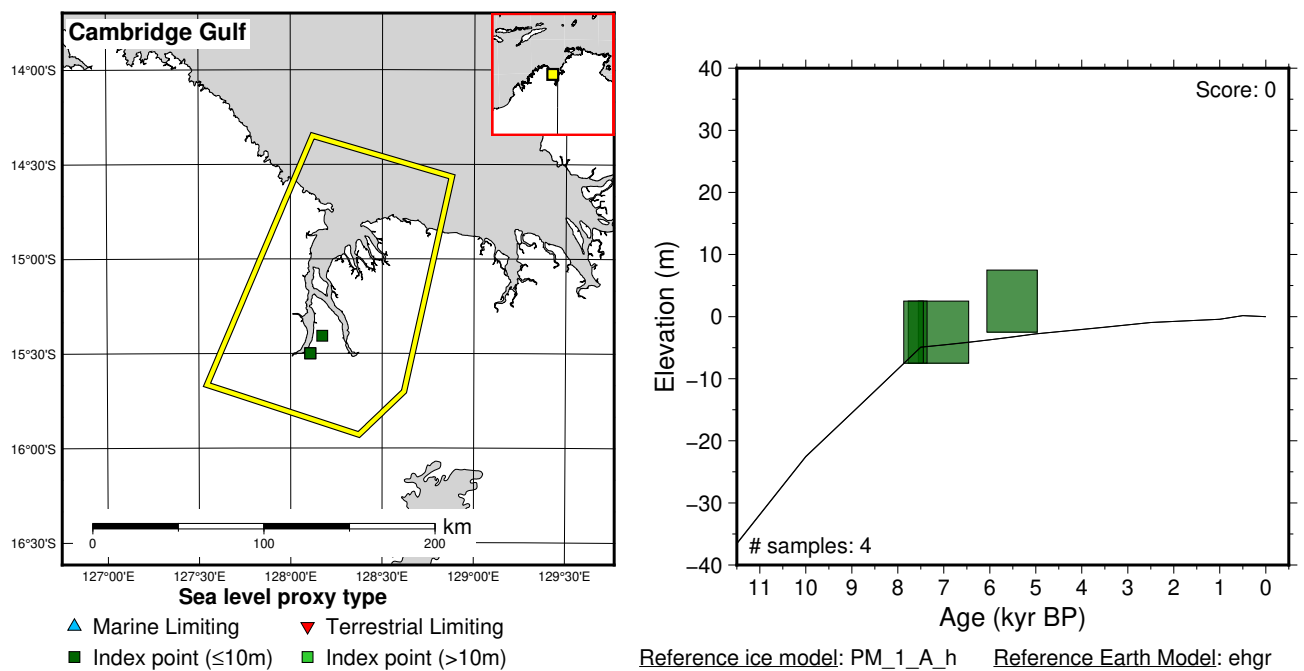


Figure 23: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: Cambridge Gulf. References: Lewis *et al.* (2013); Thom *et al.* (1975).

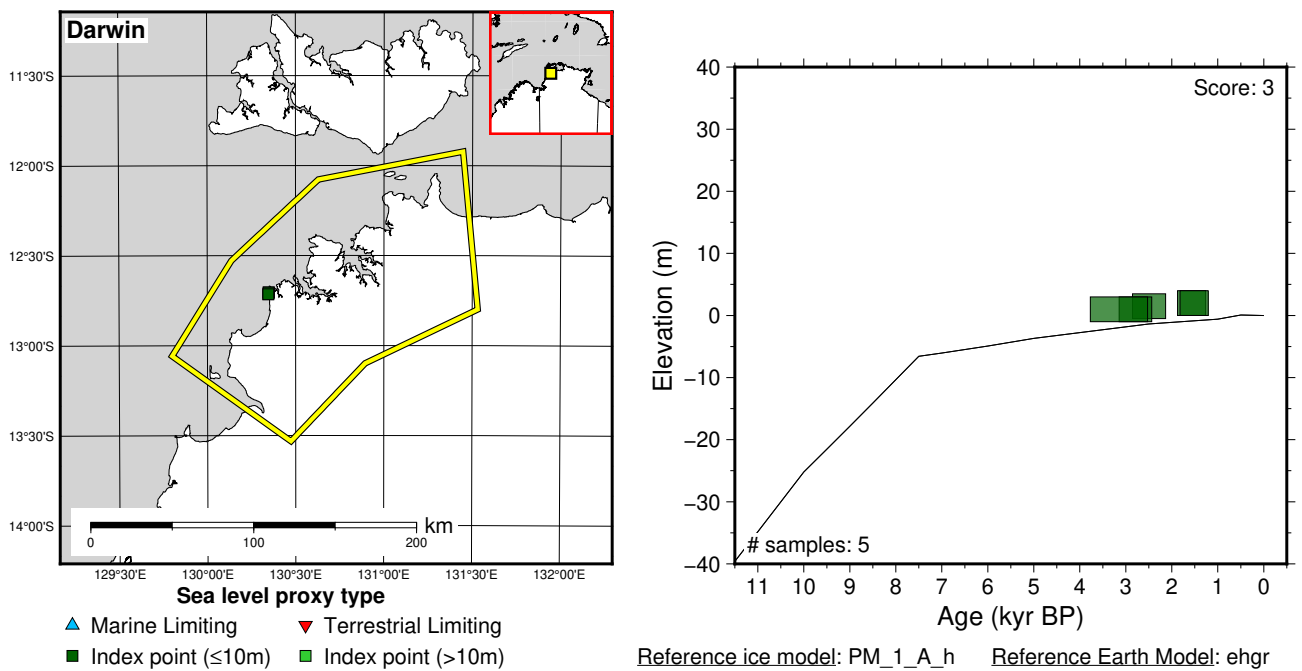


Figure 24: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: Darwin. References: Lewis et al. (2013); Nott (1996).

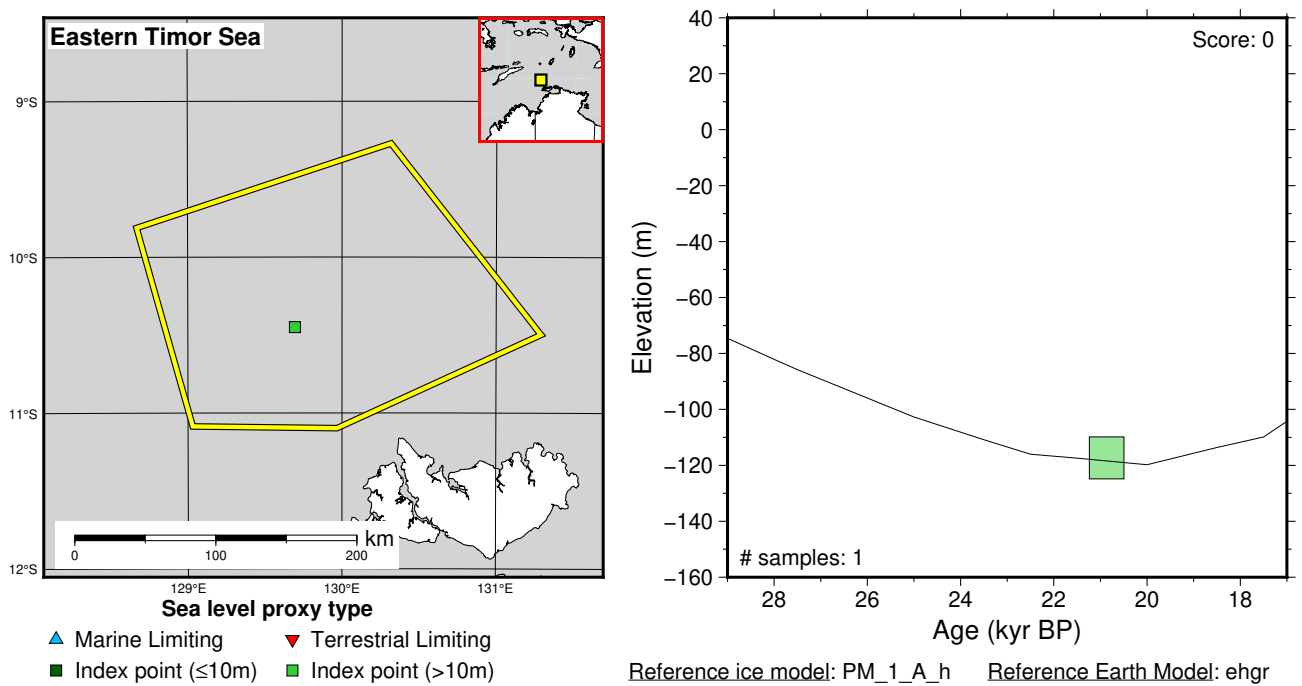


Figure 25: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: Eastern Timor Sea. References: Nicholas et al. (2014).

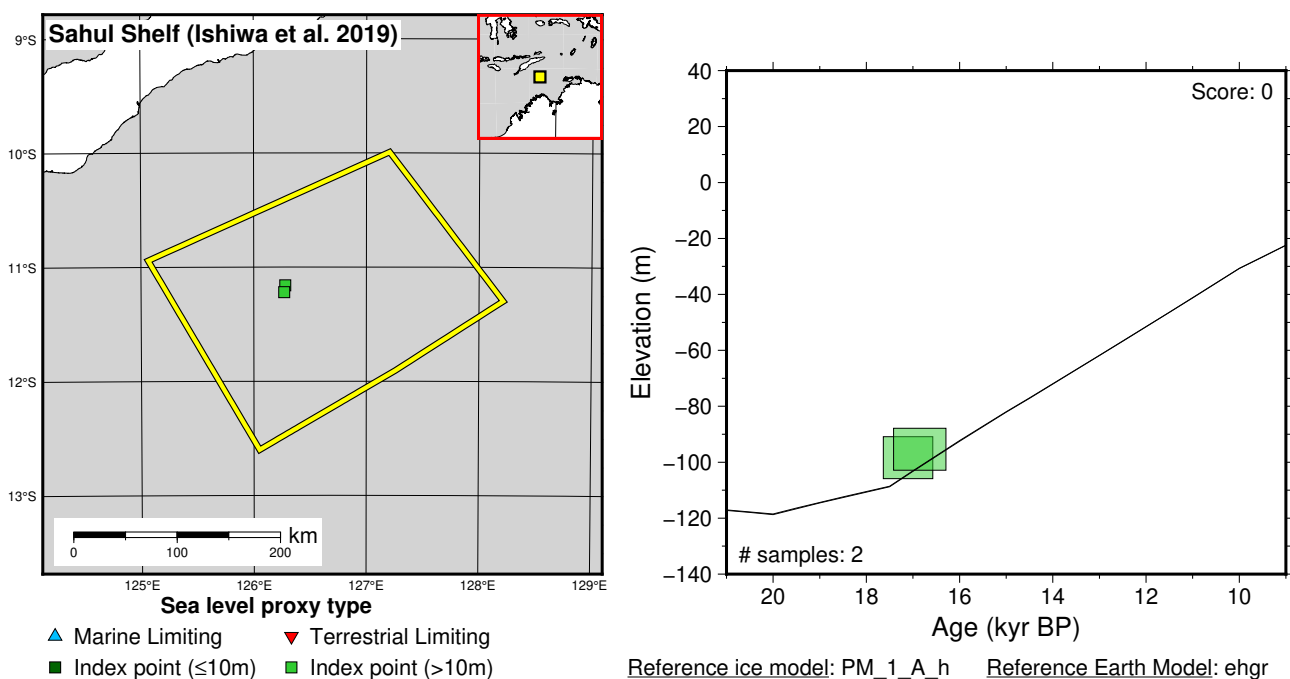


Figure 26: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: Sahul Shelf (Ishiwa *et al.* 2019 interpretation). References: Yokoyama *et al.* (2000).

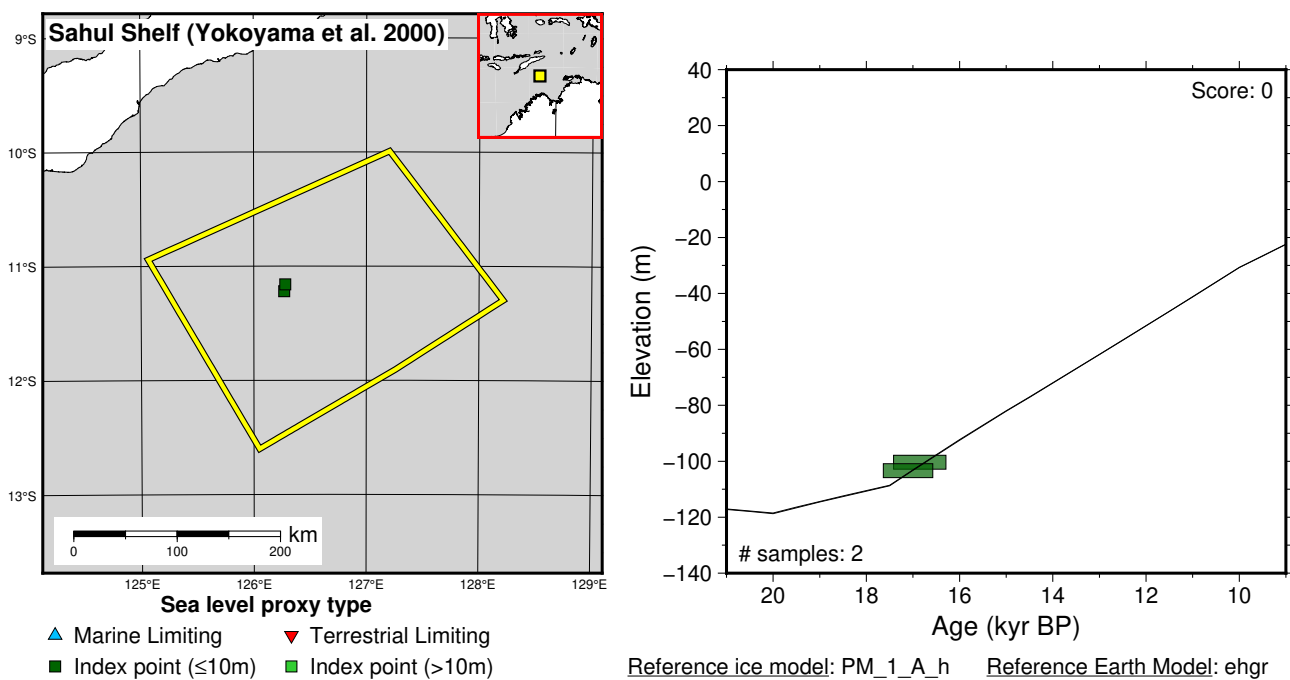


Figure 27: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: Sahul Shelf (Yokoyama *et al.* 2000 interpretation). References: Yokoyama *et al.* (2000).

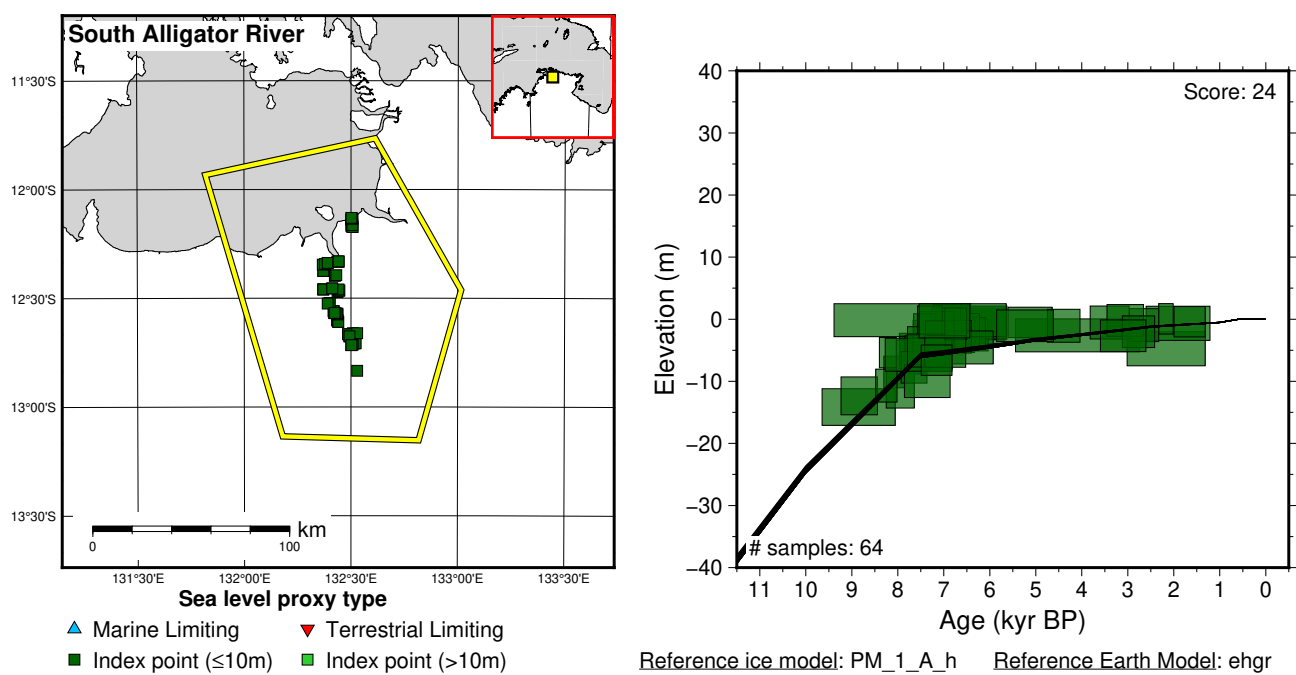


Figure 28: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: South Alligator River. References: Lewis et al. (2013); Woodroffe et al. (1986, 1985, 1987).

6.2.3 Queensland

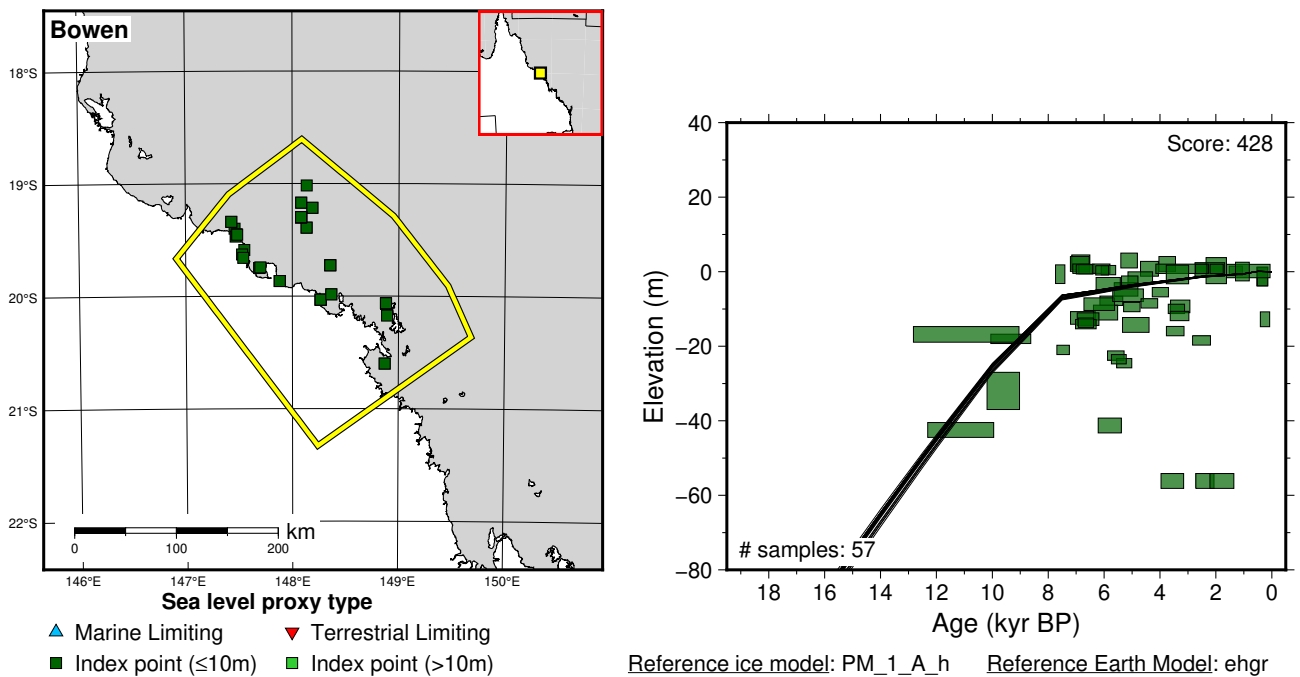


Figure 29: Paleo-sea level and comparison of six models for subregion: Queensland, location: Bowen. References: Belperio (1978, 1979); Blake (1994); Chappell et al. (1983); Harris et al. (1990); Heap et al. (2002); Hopley (1980, 1983); Hopley et al. (1978, 1983); Larcombe et al. (1995); Lewis et al.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

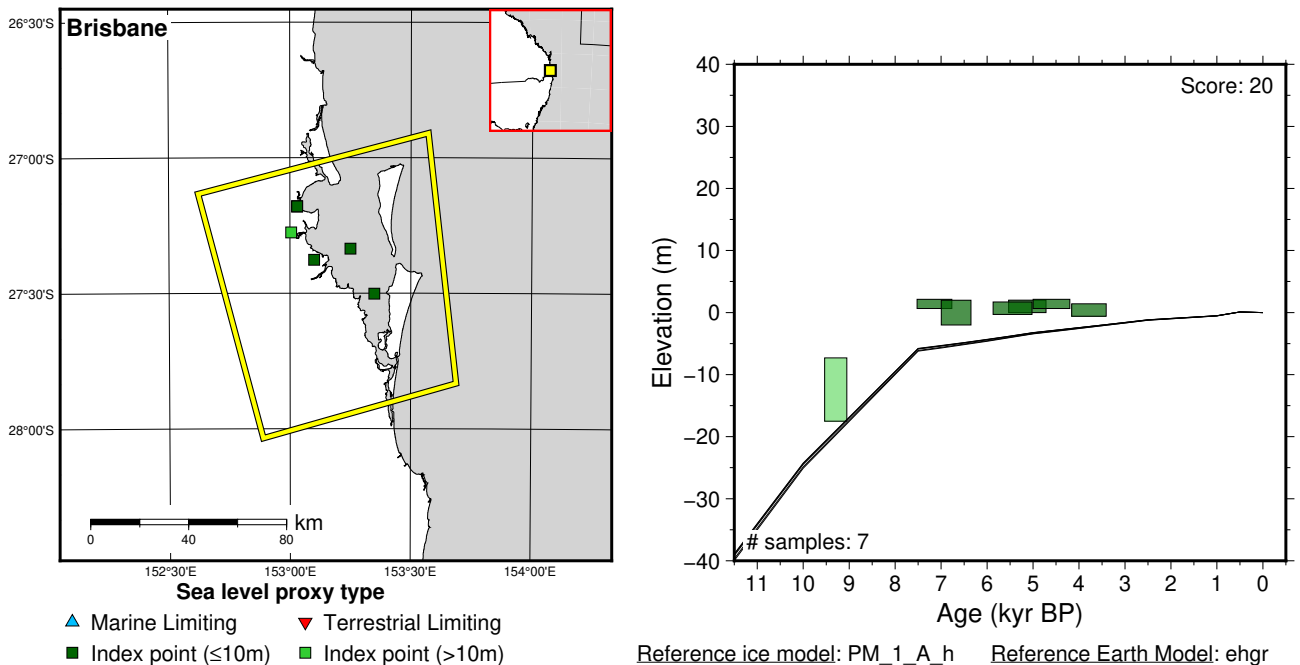


Figure 30: Paleo-sea level and comparison of six models for subregion: Queensland, location: Brisbane. References: Flood (1983); Hekel et al. (1979); Hofmann (1980); Jones et al. (1978); Lewis et al. (2013).

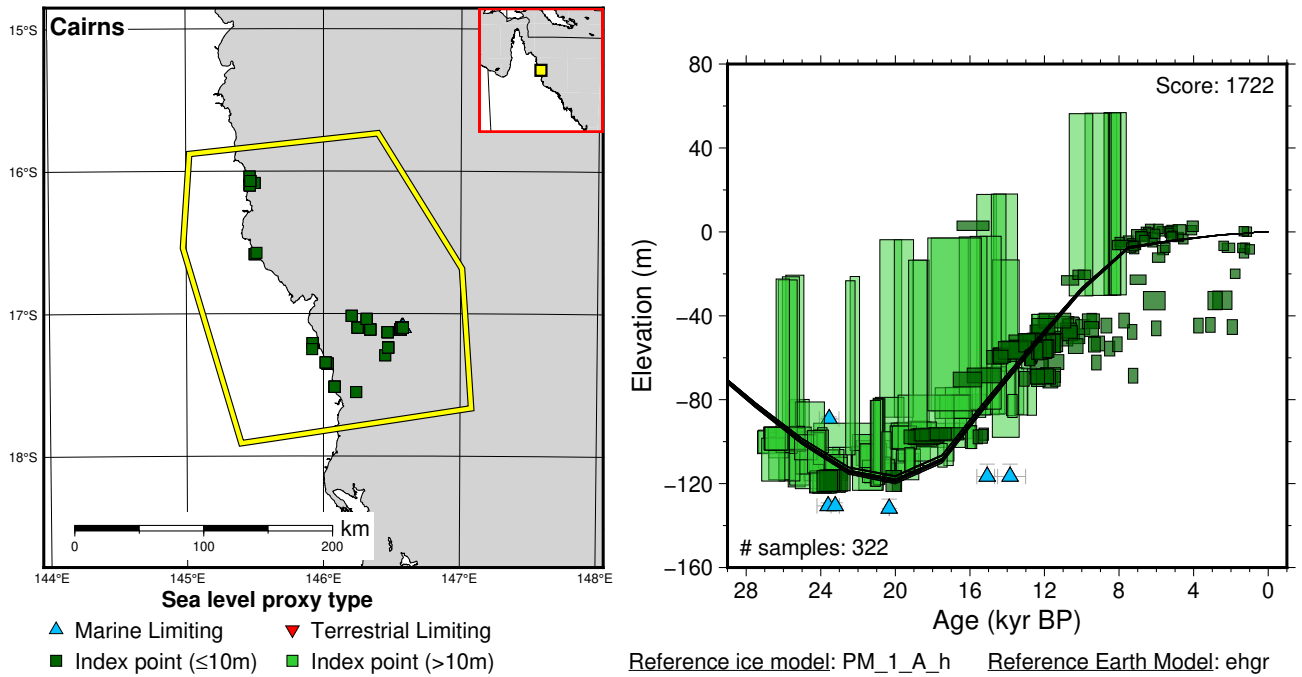


Figure 31: Paleo-sea level and comparison of six models for subregion: Queensland, location: Cairns. References: Bird (1971); Chappell et al. (1983); Crowley et al. (1990); Gagan (1990); Gagan et al. (1994); Grant-Taylor and Rafter (1963); Johnson and Carter (1987); Larcombe et al. (1995); Lewis et al.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

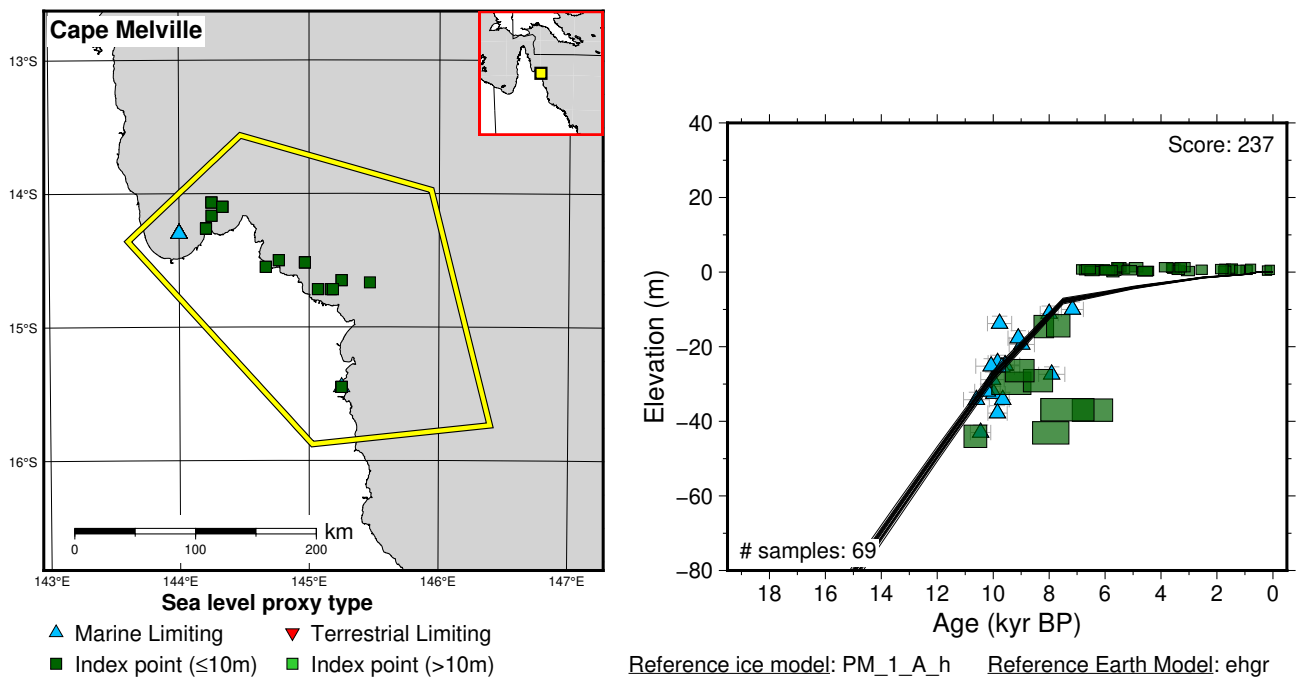


Figure 32: Paleo-sea level and comparison of six models for subregion: Queensland, location: Cape Melville. References: Chappell et al. (1983); Higley (2000); Lewis et al. (2013); Salama (1991); Zwartz (1995).

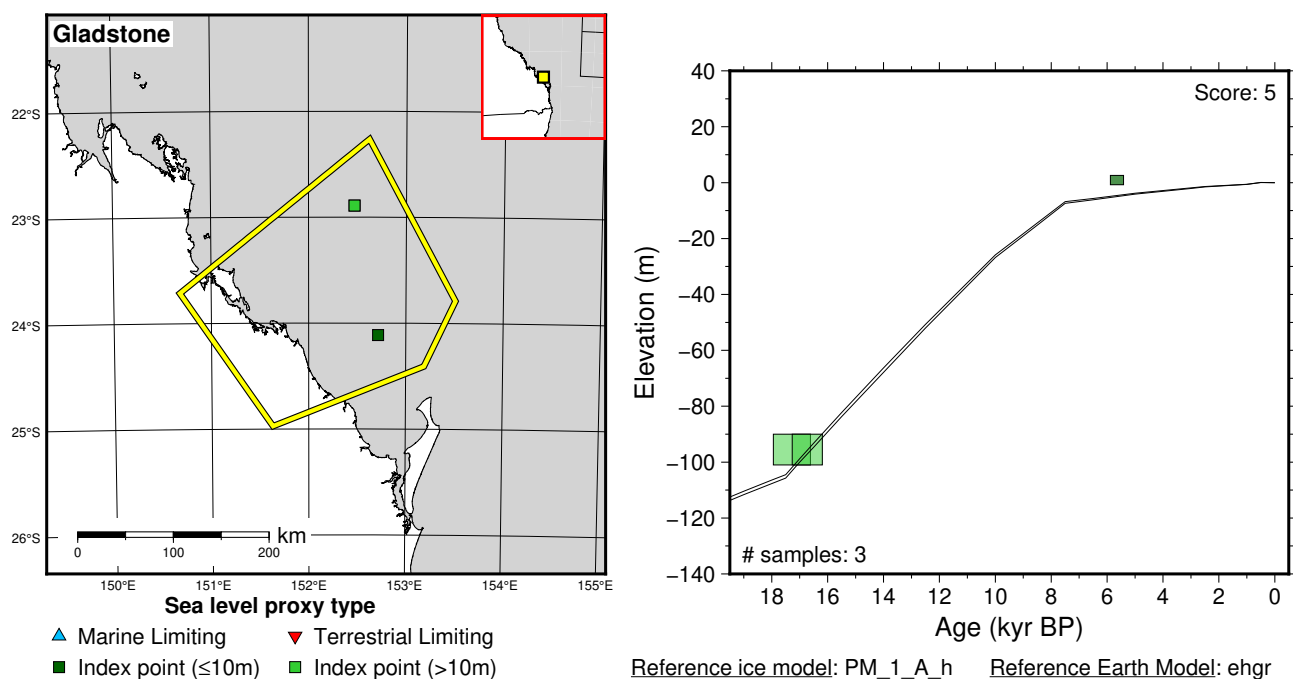


Figure 33: Paleo-sea level and comparison of six models for subregion: Queensland, location: Gladstone. References: Flood (1983); Lewis et al. (2013); Yokoyama et al. (2006).

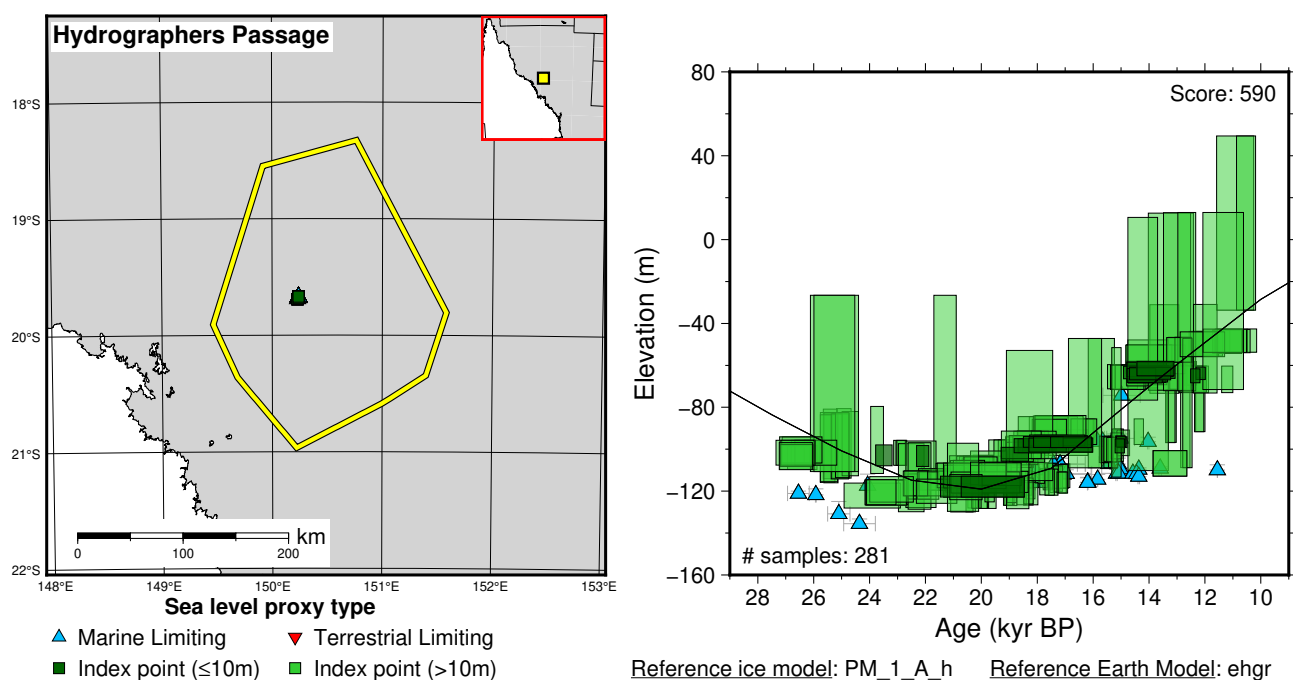


Figure 34: Paleo-sea level and comparison of six models for subregion: Queensland, location: Hydrographers Passage. References: Yokoyama et al. (2018).

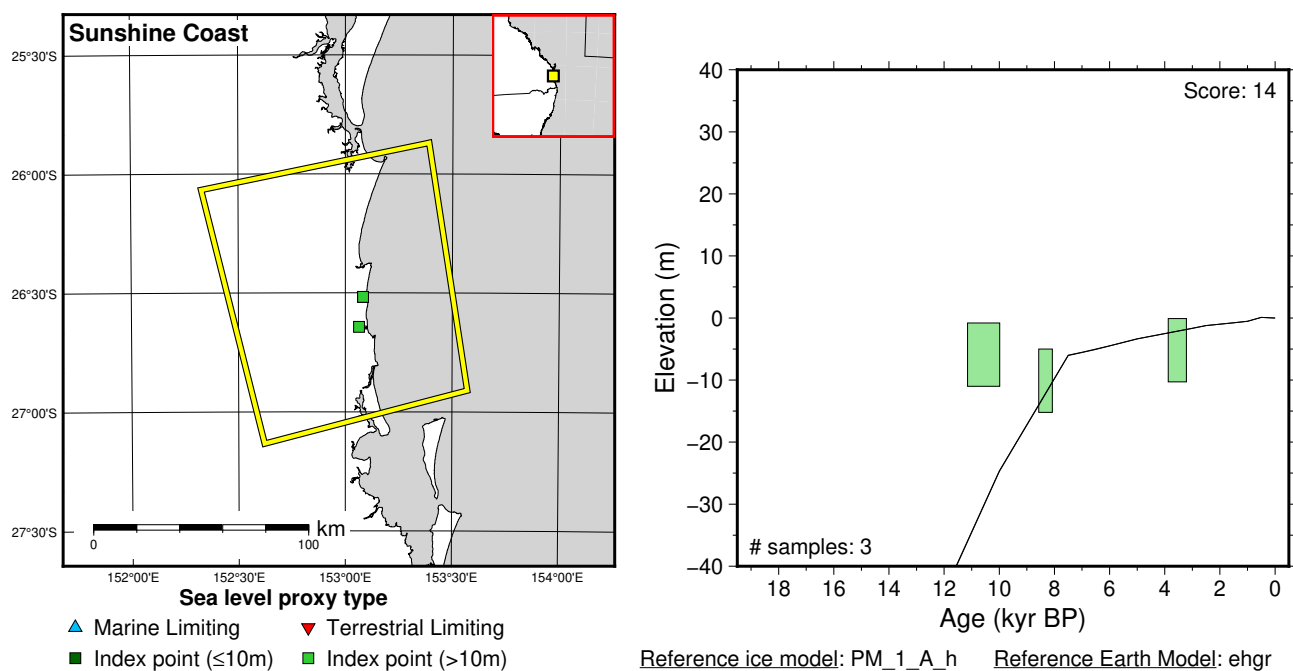


Figure 35: Paleo-sea level and comparison of six models for subregion: Queensland, location: Sunshine Coast. References: Lewis et al. (2013); Thom et al. (1969); Wood (1972).

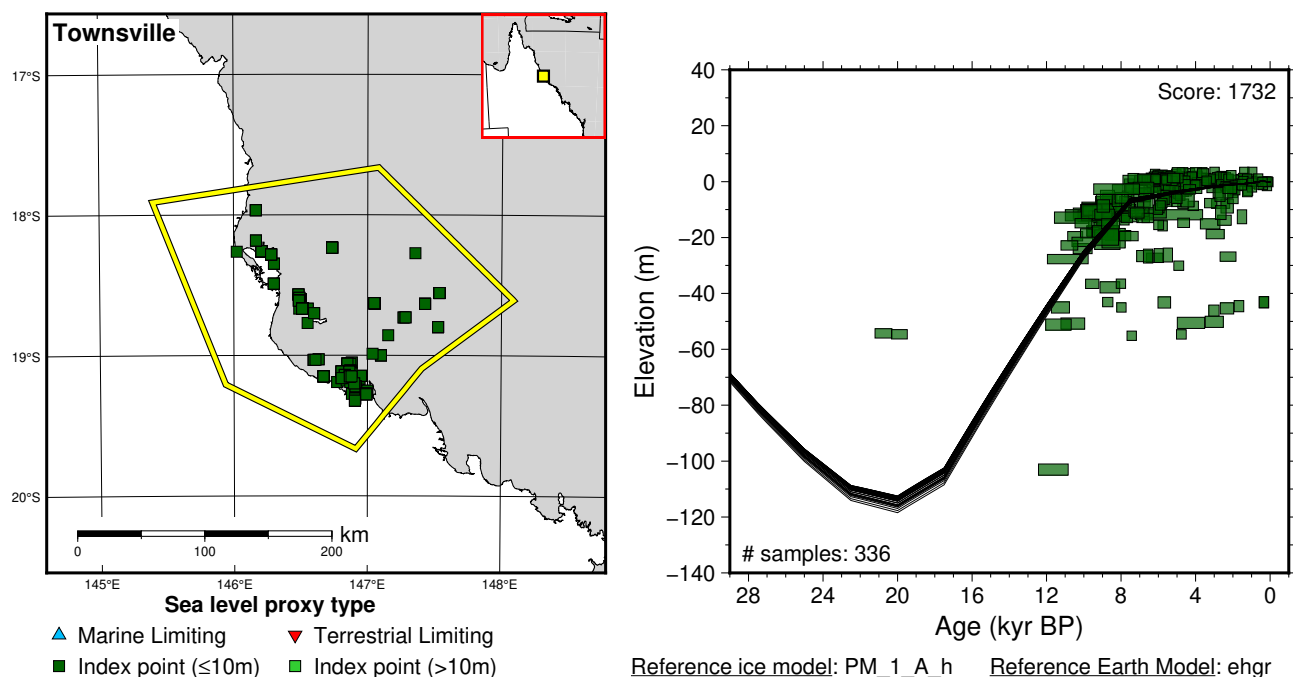


Figure 36: Paleo-sea level and comparison of six models for subregion: Queensland, location: Townsville. References: Beaman et al. (1994); Belperio (1978, 1979); Carter et al. (1993); Chappell et al. (1983); Gill and Hopley (1972); Grindrod and Rhodes (1984); Harris et al. (1990); Higley (2000); Hopley (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

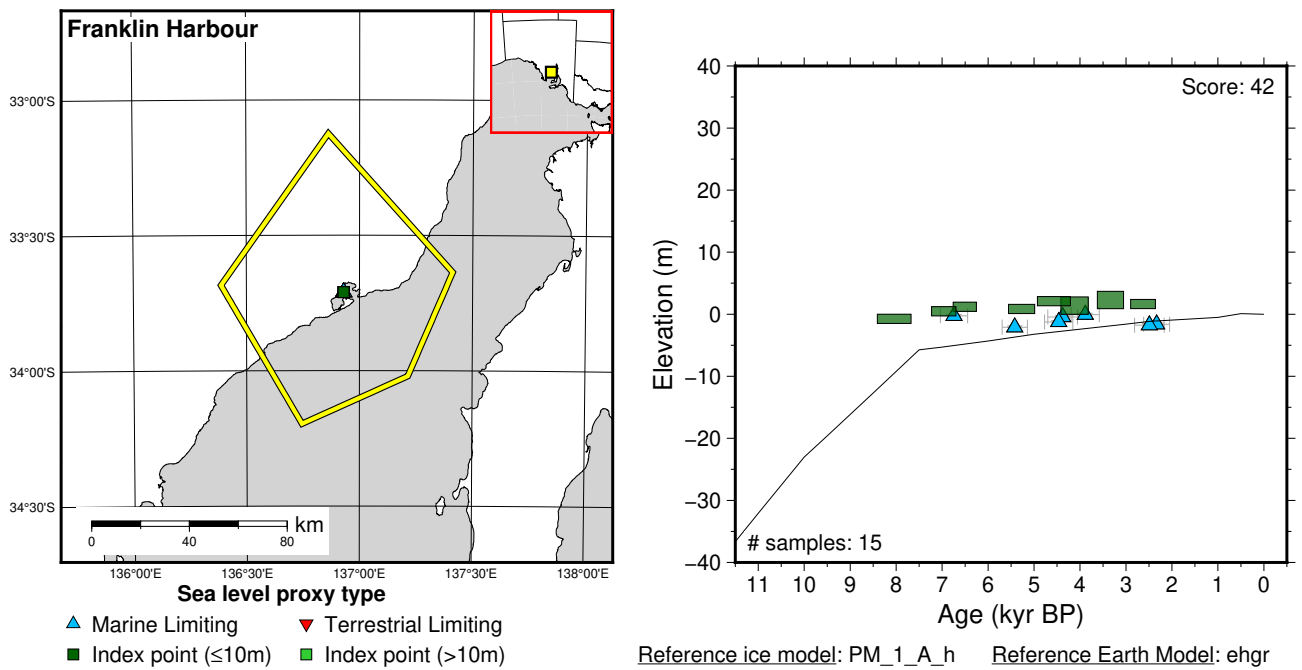


Figure 37: Paleo-sea level and comparison of six models for subregion: South Australia, location: Franklin Harbour. References: Belperio et al. (2002); Lewis et al. (2013); Short et al. (1986).

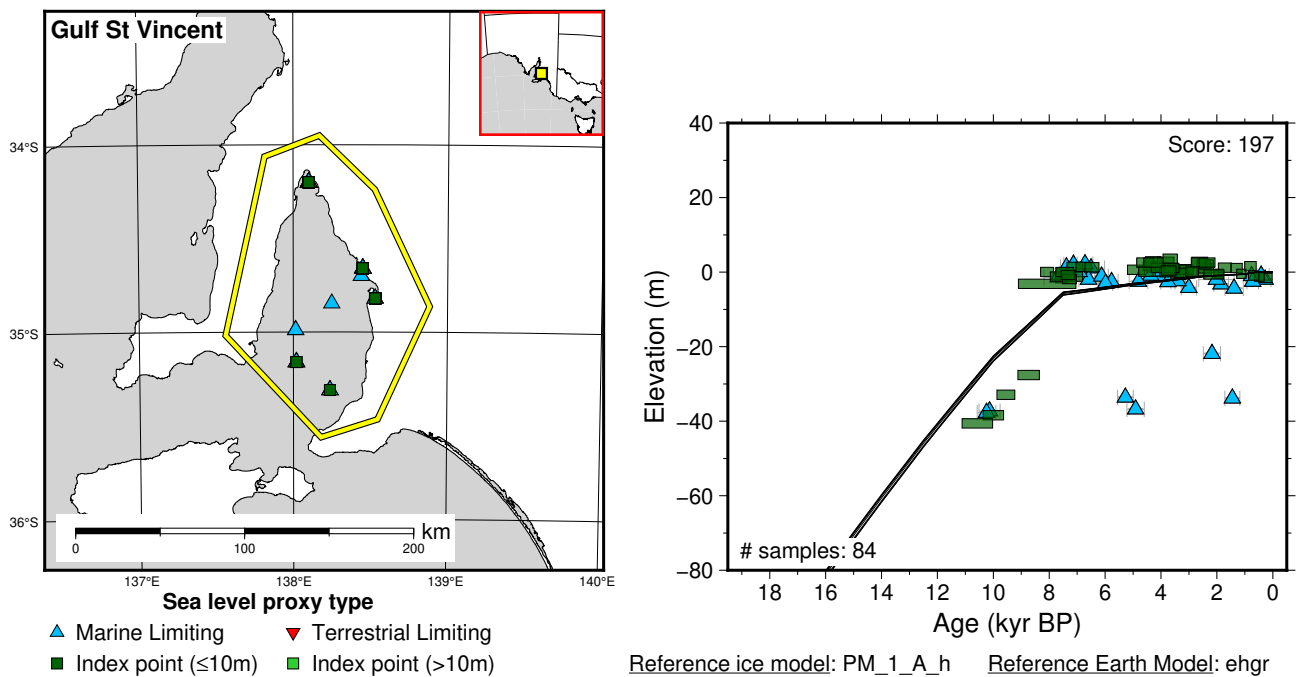


Figure 38: Paleo-sea level and comparison of six models for subregion: South Australia, location: Gulf St Vincent. References: Belperio (1993); Belperio et al. (1983, 2002); Cann et al. (1988, 1993); Lewis et al. (2013); Murray-Wallace et al. (1993).

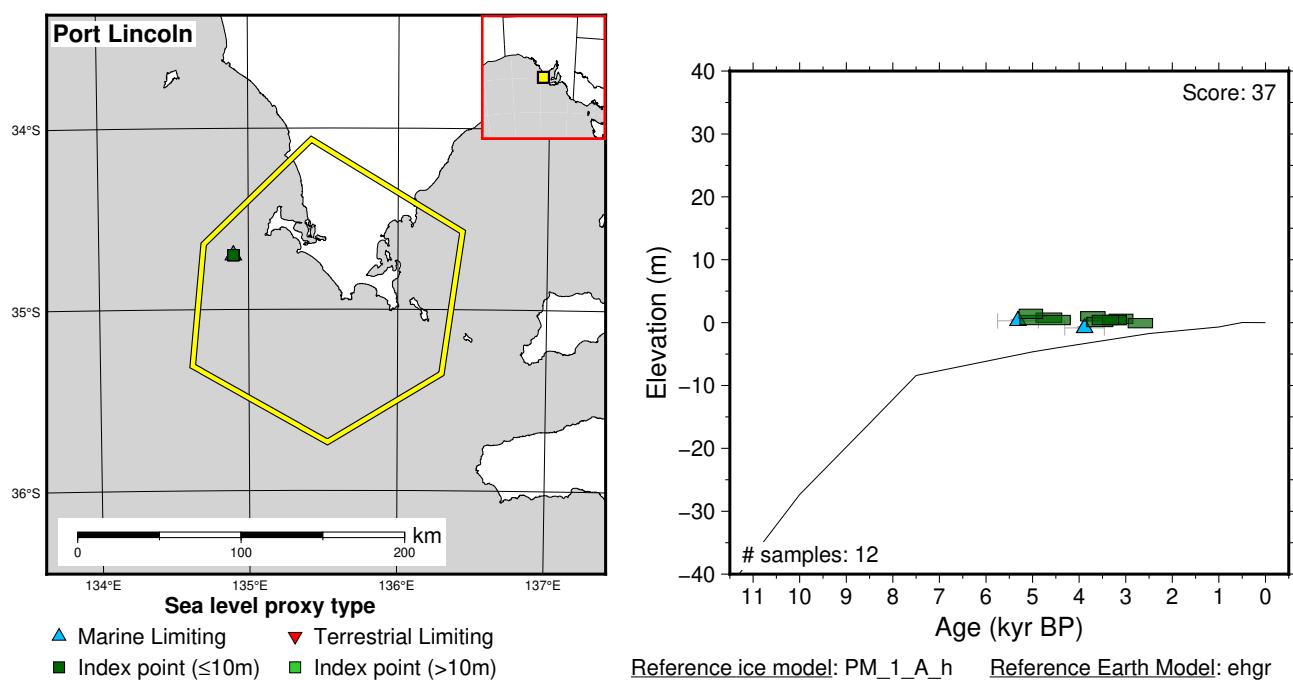


Figure 39: Paleo-sea level and comparison of six models for subregion: South Australia, location: Port Lincoln. References: Belperio et al. (2002); Lewis et al. (2013); Short et al. (1986).

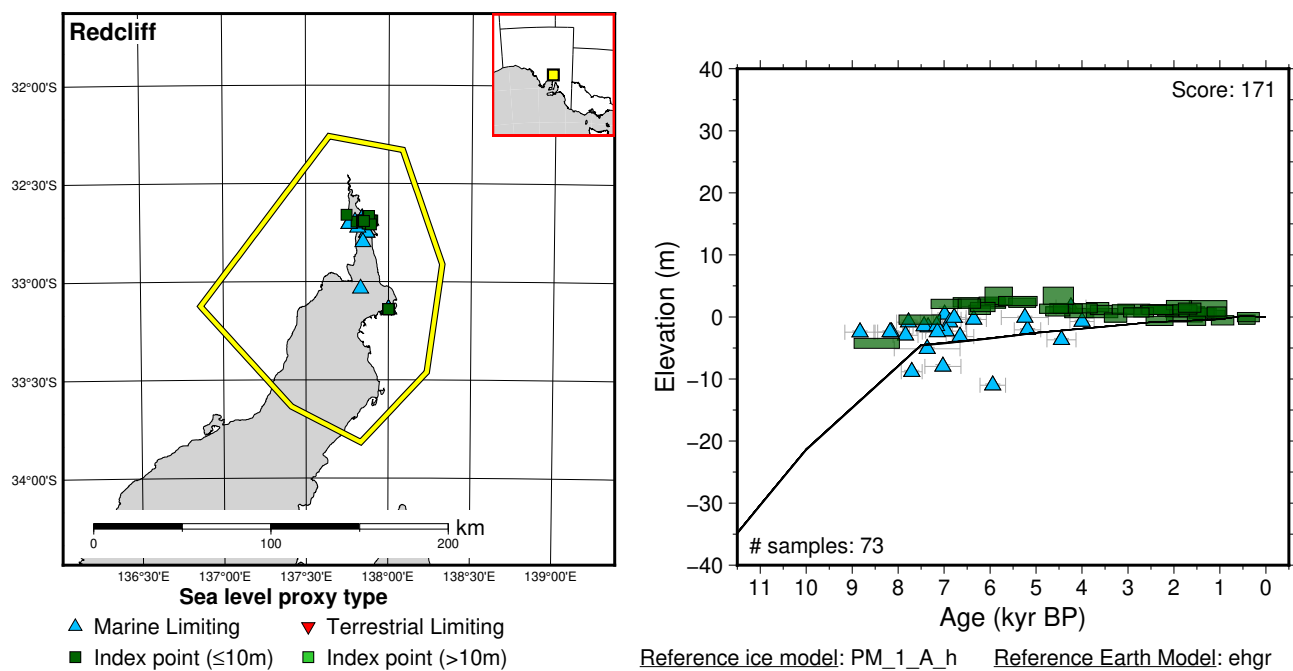


Figure 40: Paleo-sea level and comparison of six models for subregion: South Australia, location: Redcliff. References: Belperio et al. (1984, 2002); Harvey et al. (1999); Lewis et al. (2013).

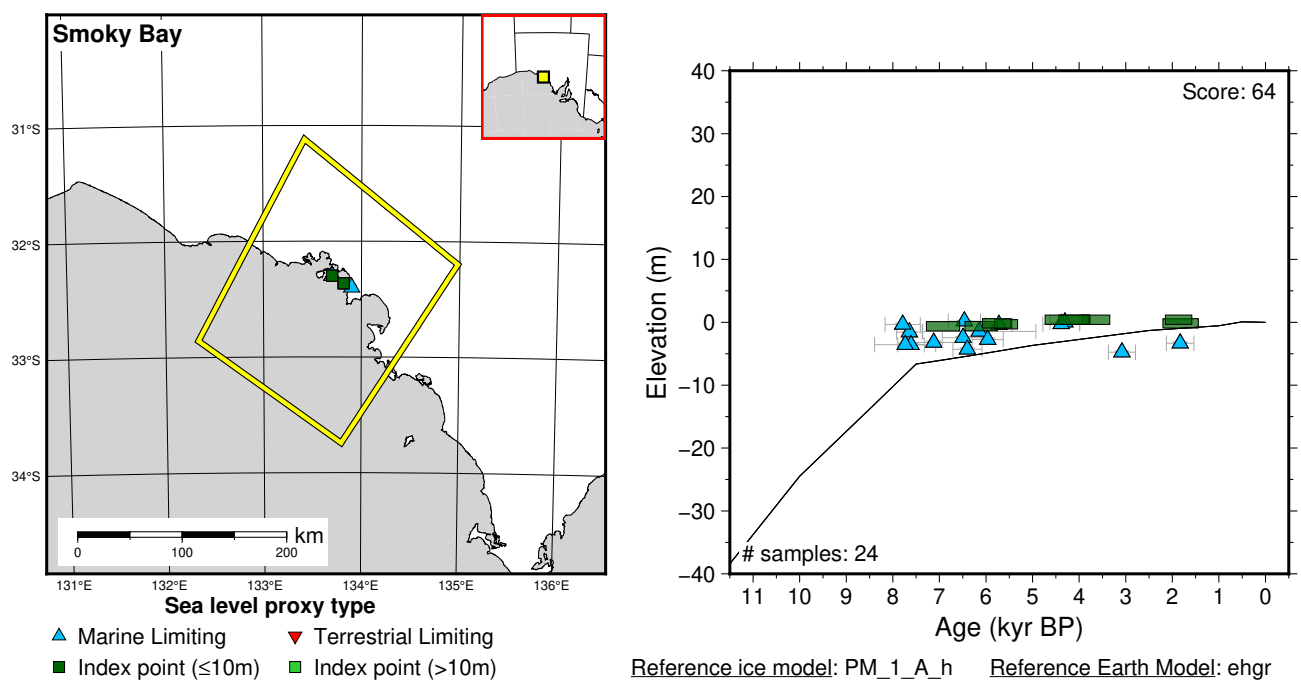


Figure 41: Paleo-sea level and comparison of six models for subregion: South Australia, location: Smoky Bay. References: Belperio et al. (2002); Lewis et al. (2013); Murray-Wallace et al. (1993); Short et al. (1986).

6.2.5 Tasmania

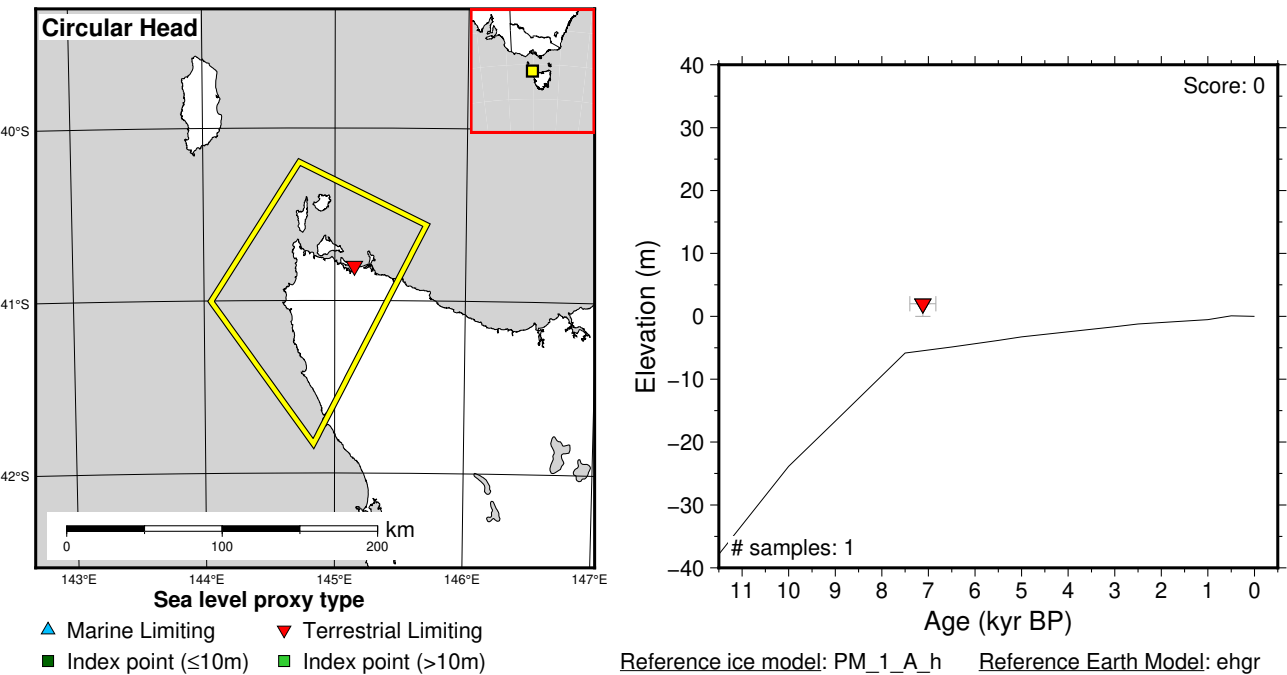


Figure 42: Paleo-sea level and comparison of six models for subregion: Tasmania, location: Circular Head. References: Morrison (2019); Murray-Wallace and Goede (1995).

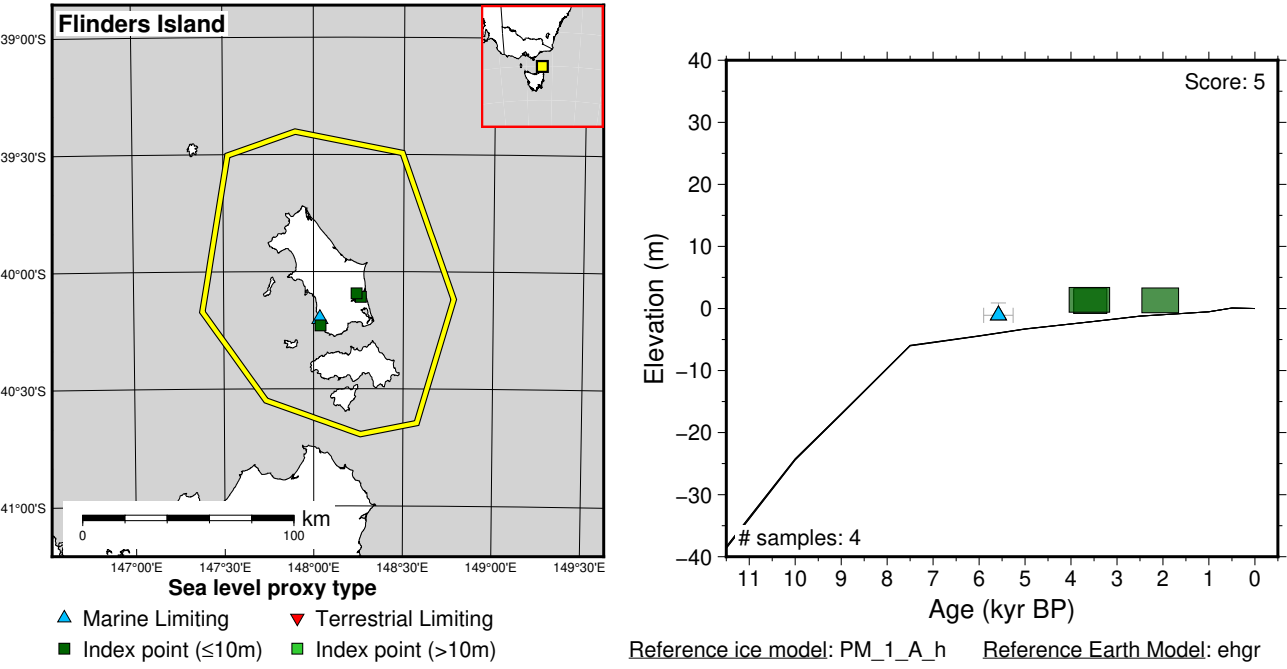


Figure 43: Paleo-sea level and comparison of six models for subregion: Tasmania, location: Flinders Island. References: Morrison (2019); Murray-Wallace and Goede (1995).

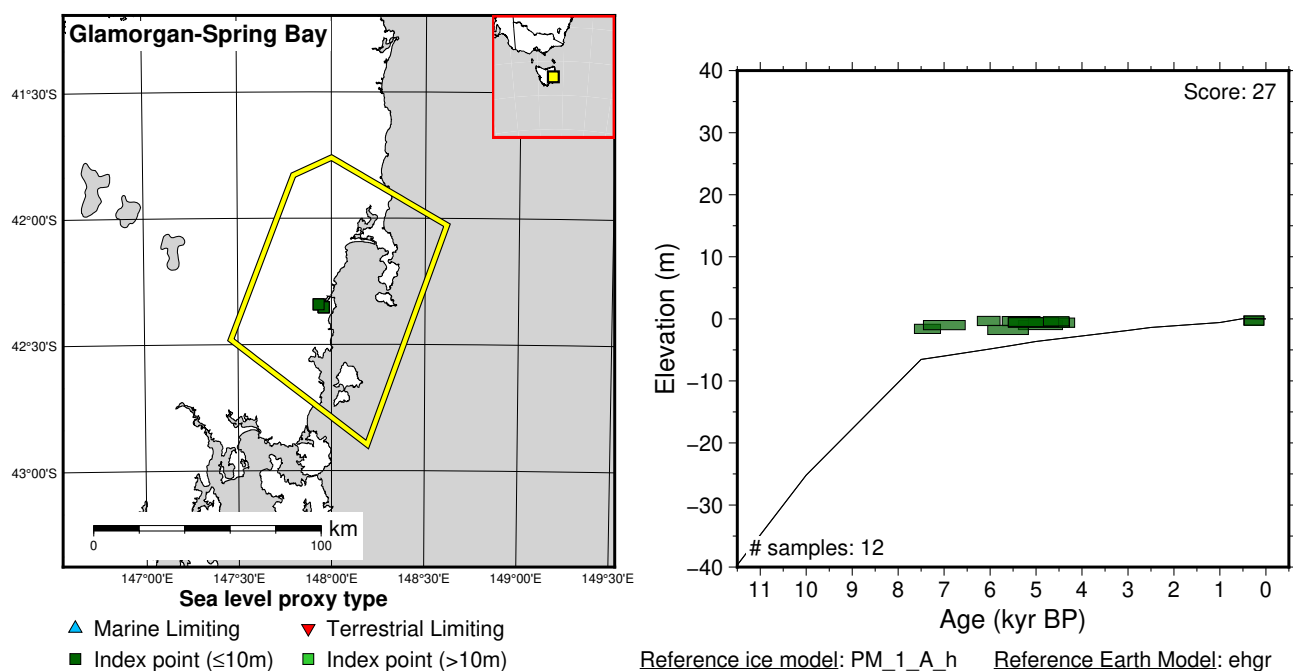


Figure 44: Paleo-sea level and comparison of six models for subregion: Tasmania, location: Glamorgan-Spring Bay. References: Gehrels et al. (2012); Morrison (2019).

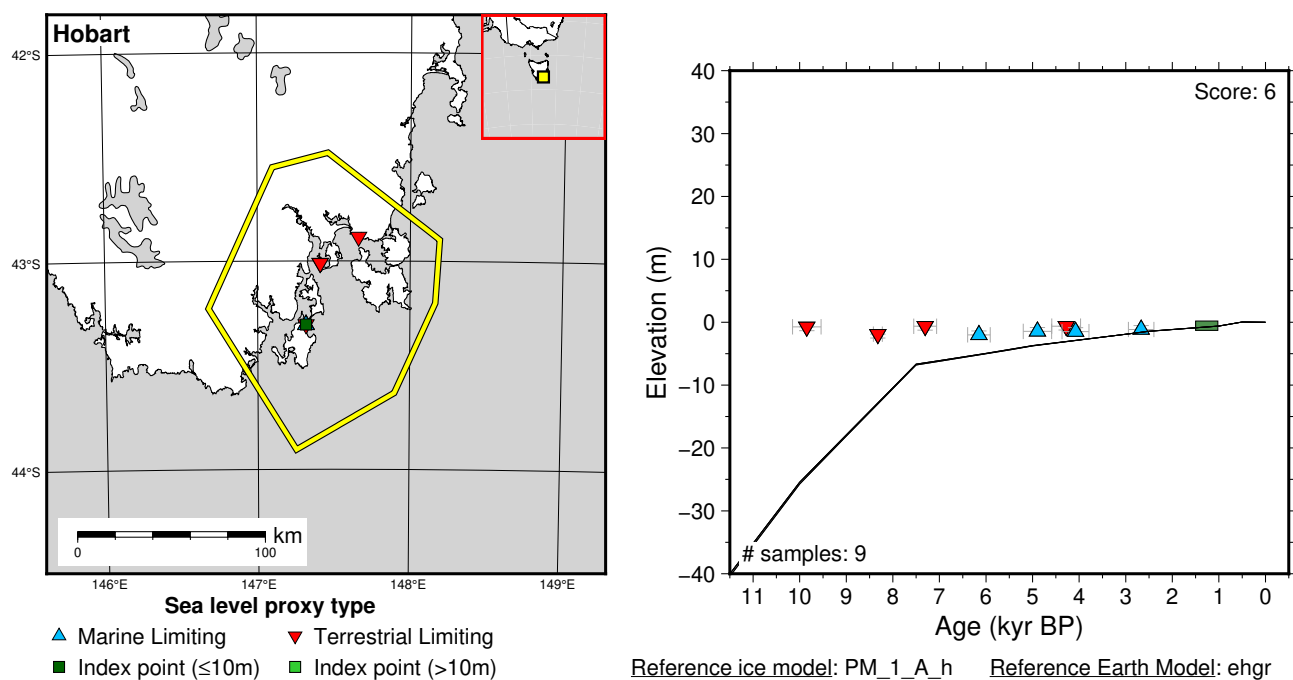


Figure 45: Paleo-sea level and comparison of six models for subregion: Tasmania, location: Hobart. References: Clark et al. (2011); Morrison (2019).

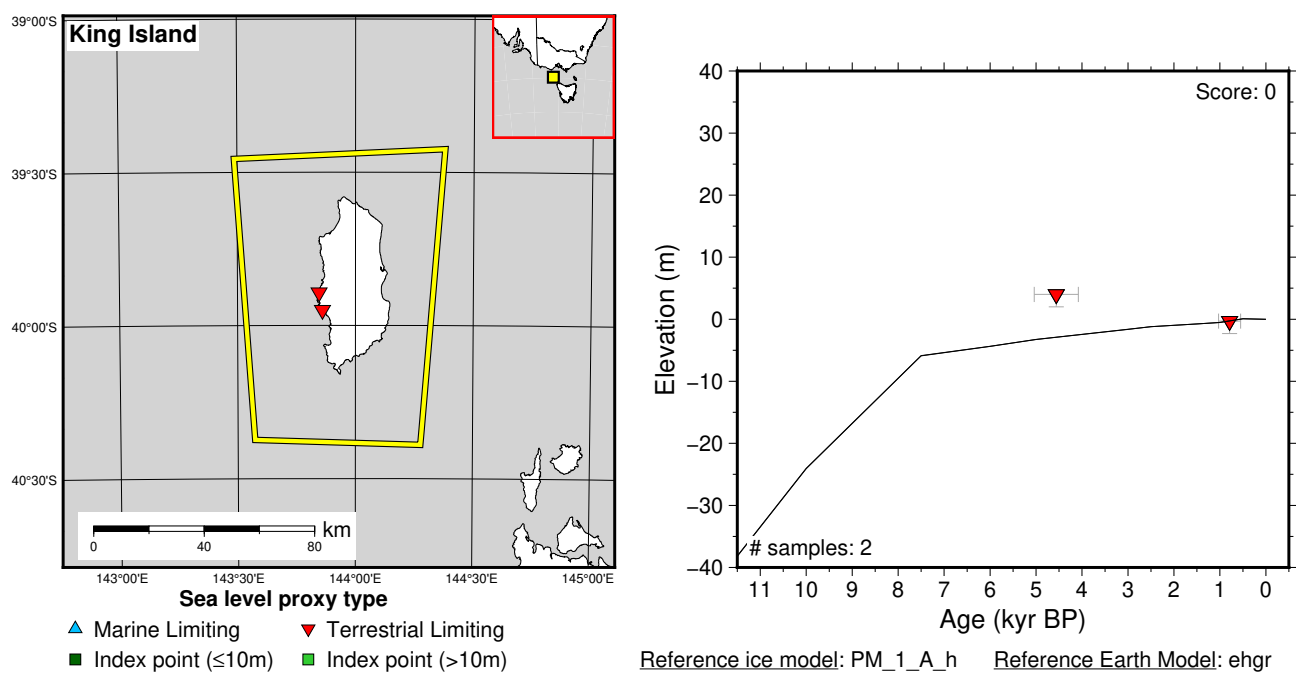


Figure 46: Paleo-sea level and comparison of six models for subregion: Tasmania, location: King Island. References: Morrison (2019); Murray-Wallace and Goede (1995).

6.2.6 Western Australia

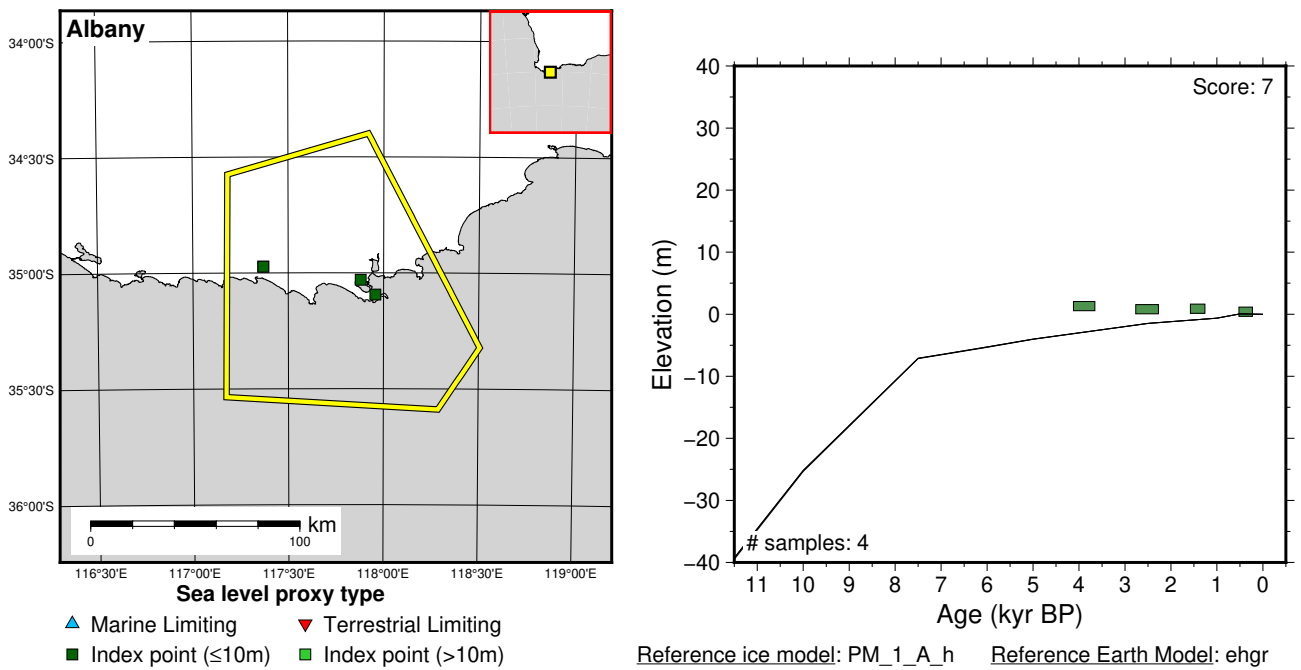


Figure 47: Paleo-sea level and comparison of six models for subregion: Western Australia, location: Albany. References: Baker et al. (2005); Lewis et al. (2013).

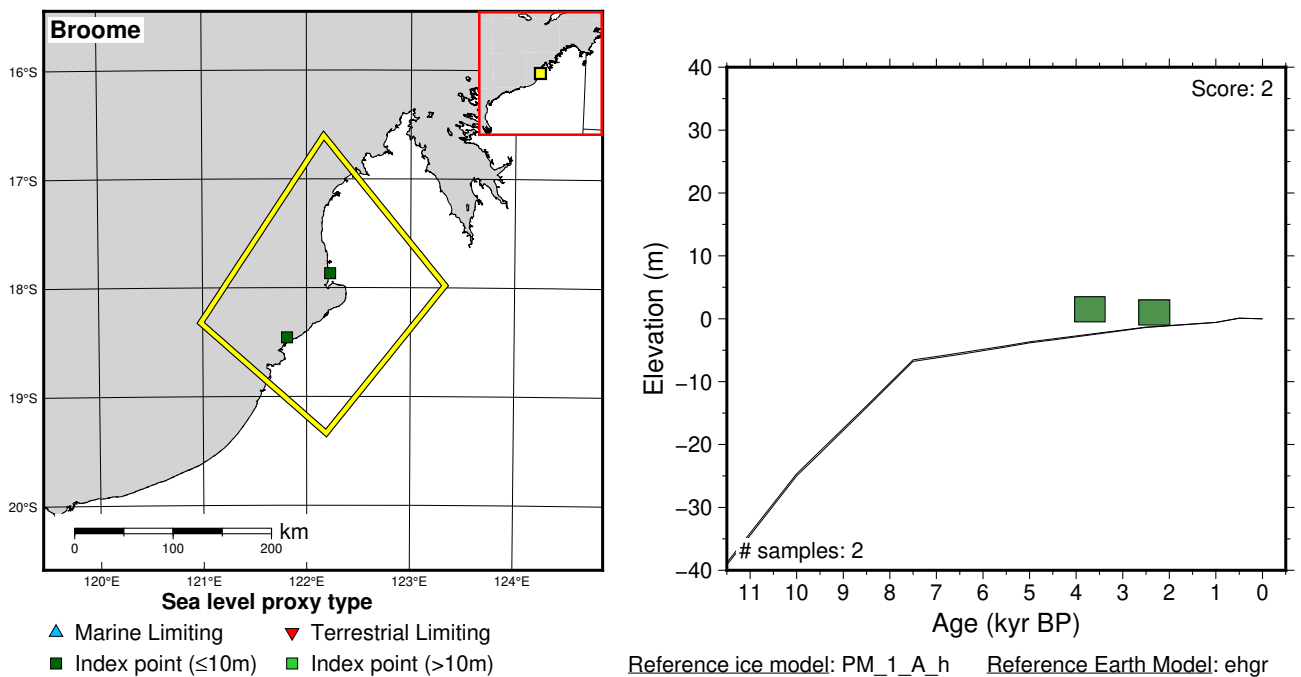


Figure 48: Paleo-sea level and comparison of six models for subregion: Western Australia, location: Broome. References: Hearty et al. (2006); Lessa and Masselink (2006); Lewis et al. (2013).

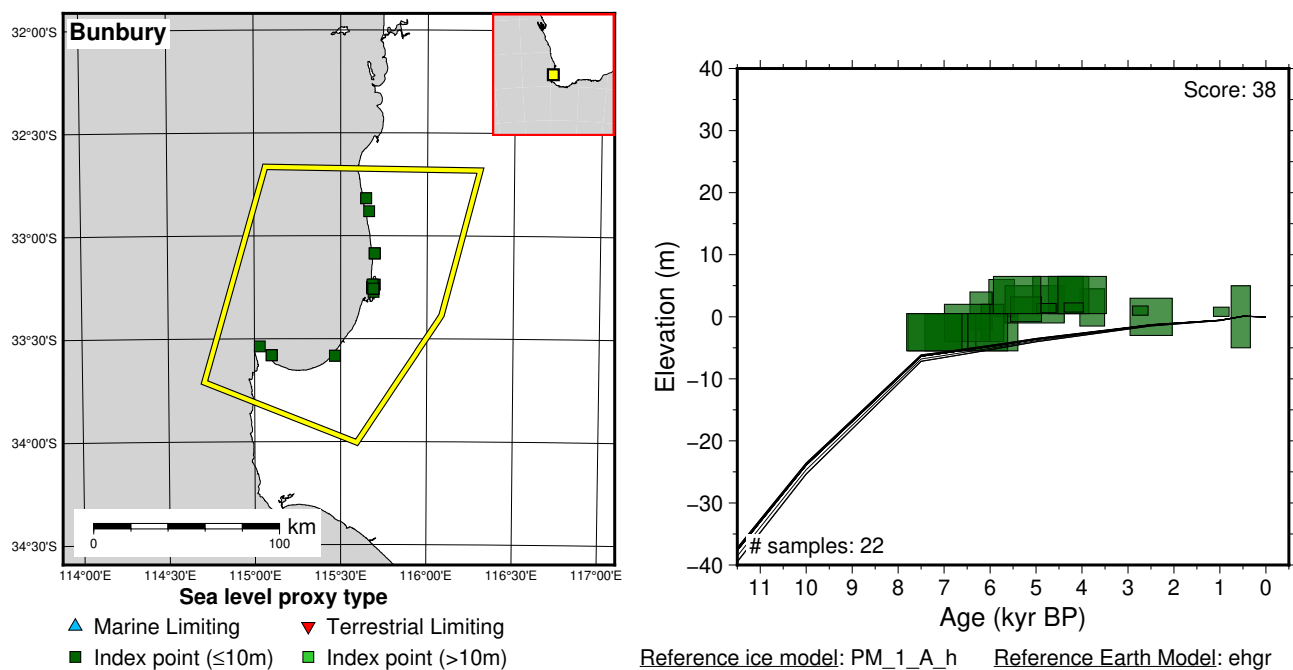


Figure 49: Paleo-sea level and comparison of six models for subregion: Western Australia, location: Bunbury. References: Baker et al. (2005); Buckley and Valdes-Pages (1981); Lewis et al. (2013); Searle and Logan (1978); Semeniuk (1985, 1996).

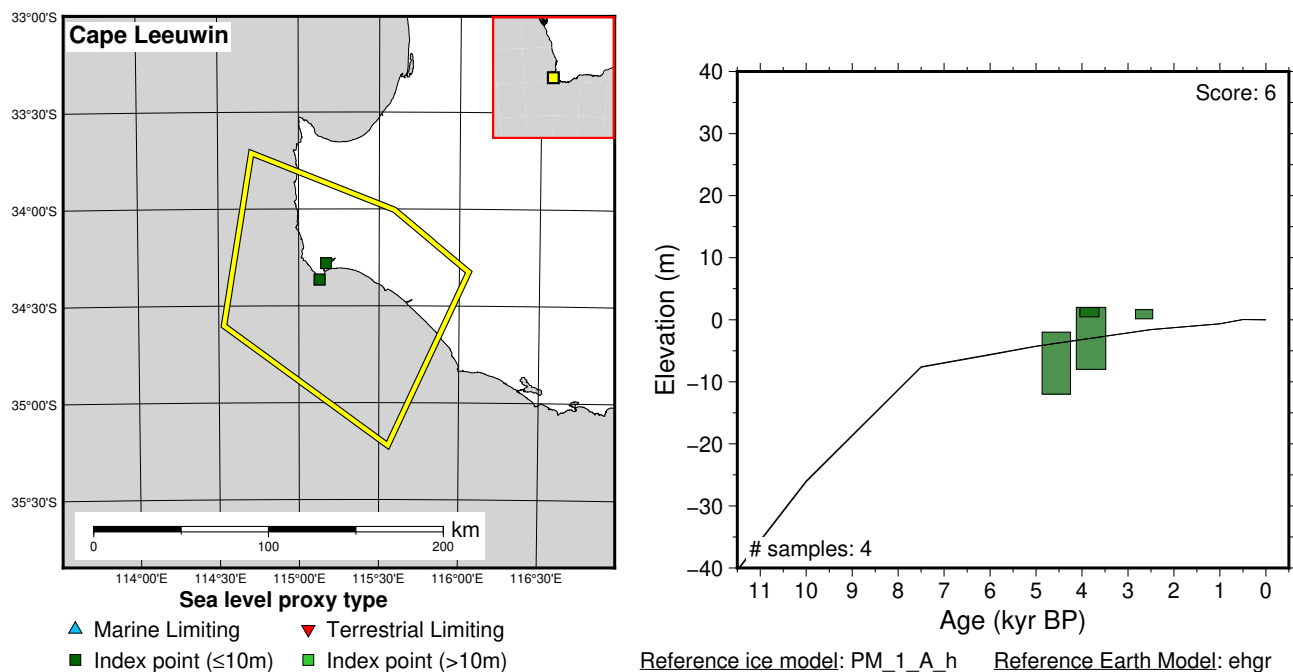


Figure 50: Paleo-sea level and comparison of six models for subregion: Western Australia, location: Cape Leeuwin. References: Baker et al. (2005); Lewis et al. (2013); Sas (1974).

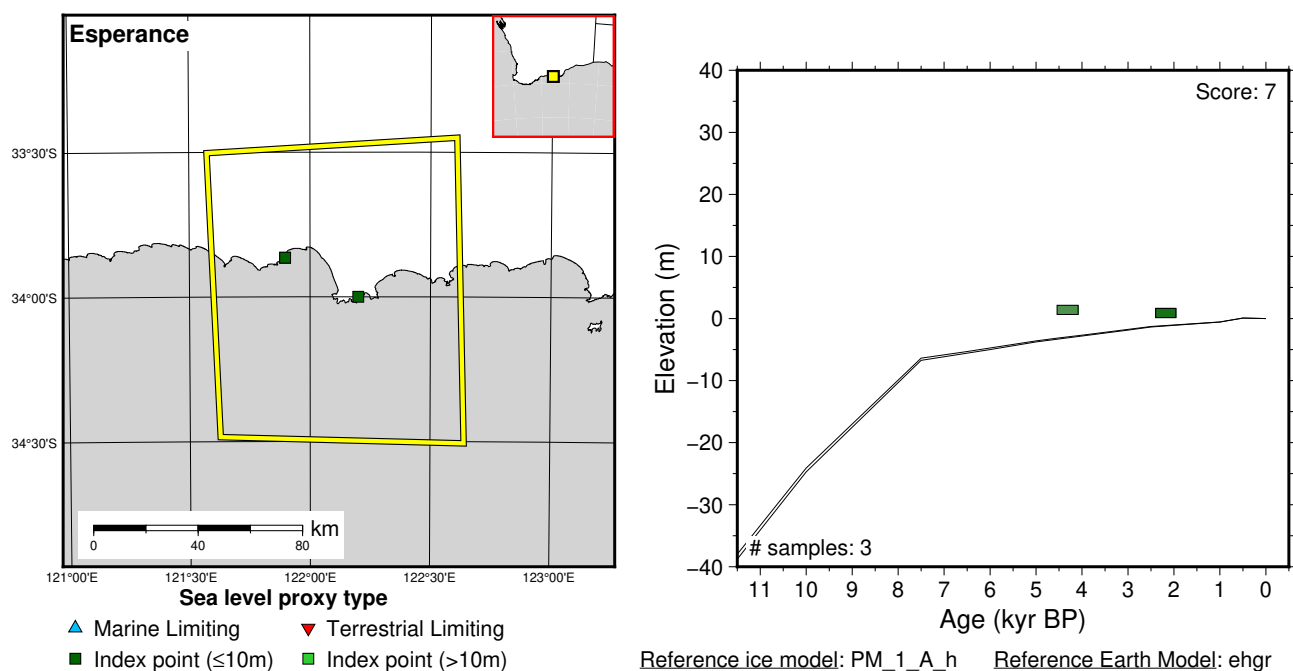


Figure 51: Paleo-sea level and comparison of six models for subregion: Western Australia, location: Esperance. References: Baker et al. (2005); Lewis et al. (2013).

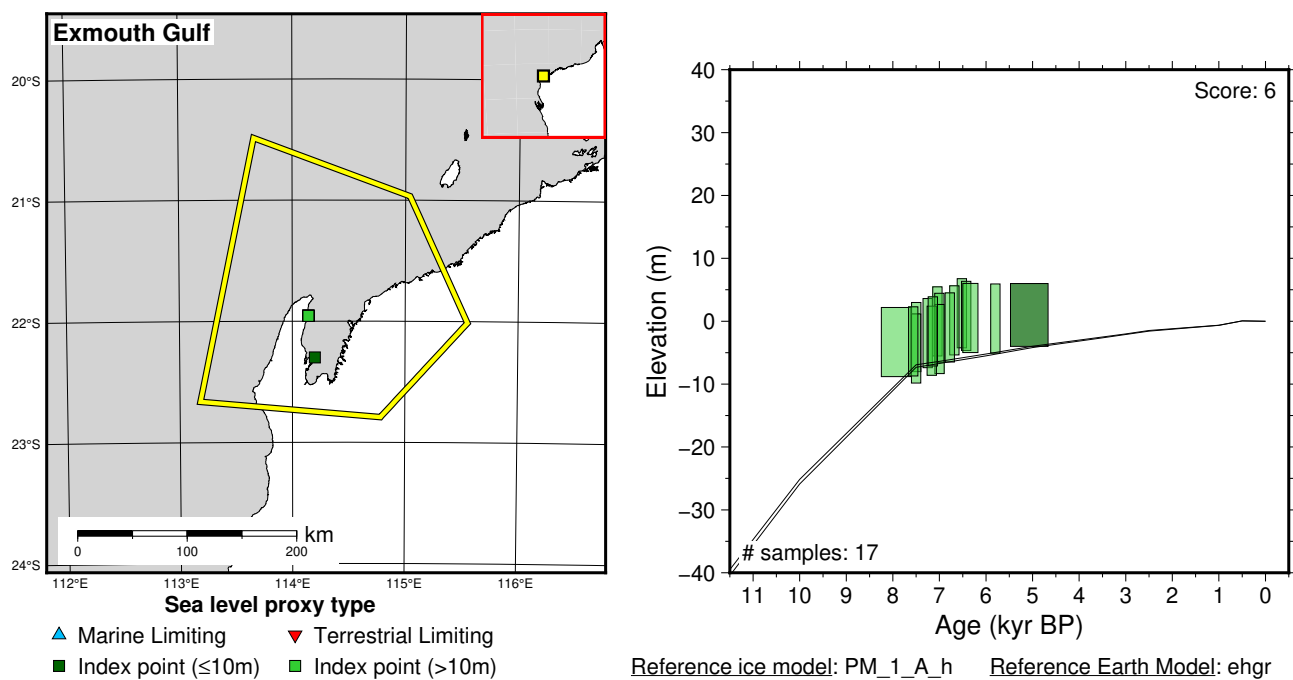


Figure 52: Paleo-sea level and comparison of six models for subregion: Western Australia, location: Exmouth Gulf. References: Lewis et al. (2013); Logan et al. (1970); Twigg and Collins (2010).

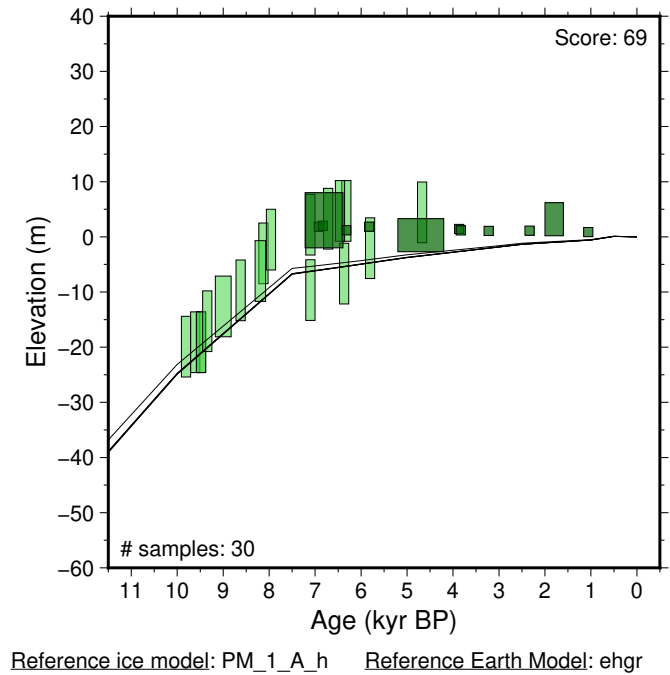
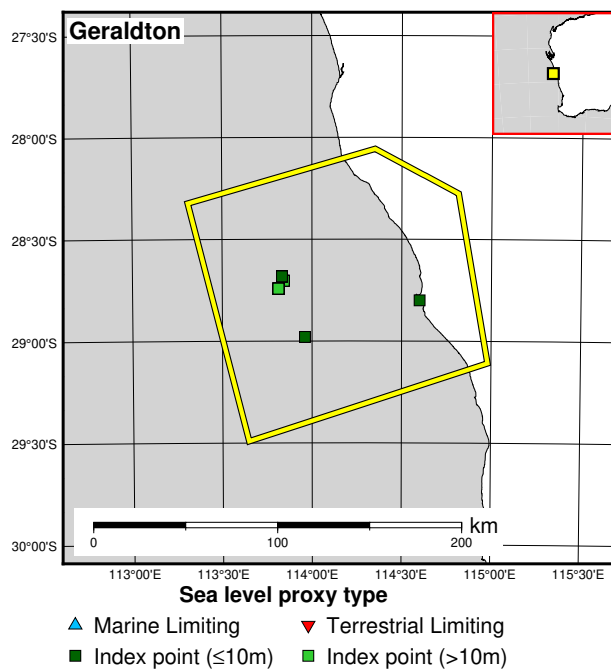


Figure 53: Paleo-sea level and comparison of six models for subregion: Western Australia, location: Geraldton. References: Collins et al. (2006); Eisenhauer et al. (1993); Lewis et al. (2013); Veeh and France (1988); Wyrwoll (1977).

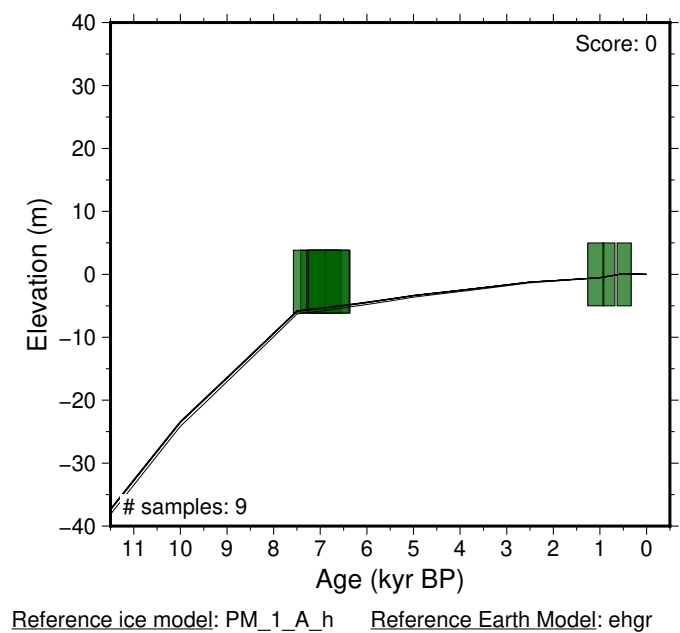
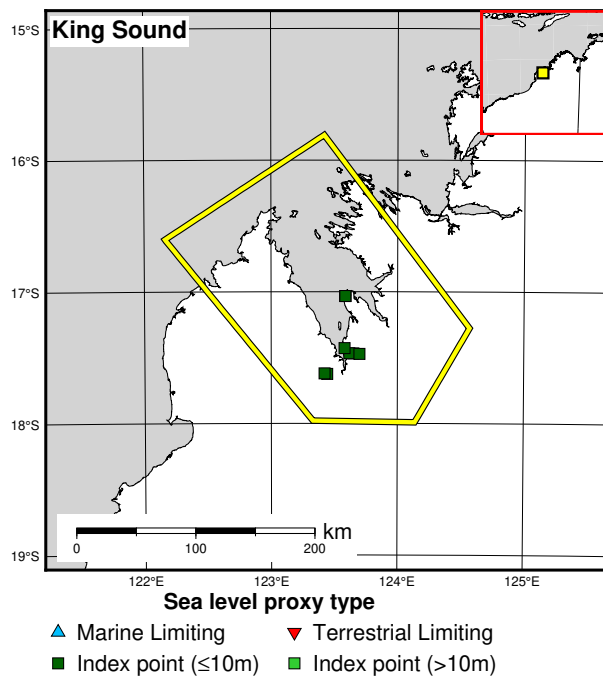


Figure 54: Paleo-sea level and comparison of six models for subregion: Western Australia, location: King Sound. References: Jennings (1975); Lewis et al. (2013).

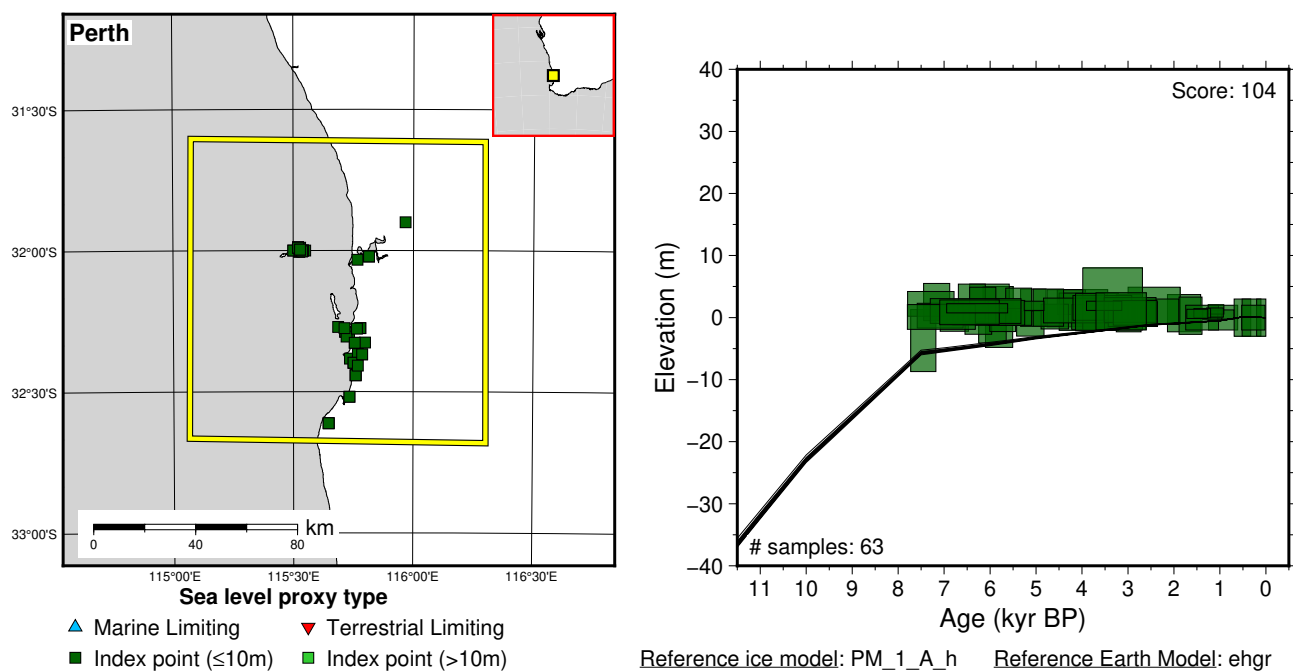


Figure 55: Paleo-sea level and comparison of six models for subregion: Western Australia, location: Perth. References: Baker et al. (2001b, 2005); Brown et al. (1980); Deevey et al. (1959); Gillespie and Temple (1976); Kendrick (1977); Kigoshi et al. (1973); Lewis et al. (2013); Playford (1988); Searle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

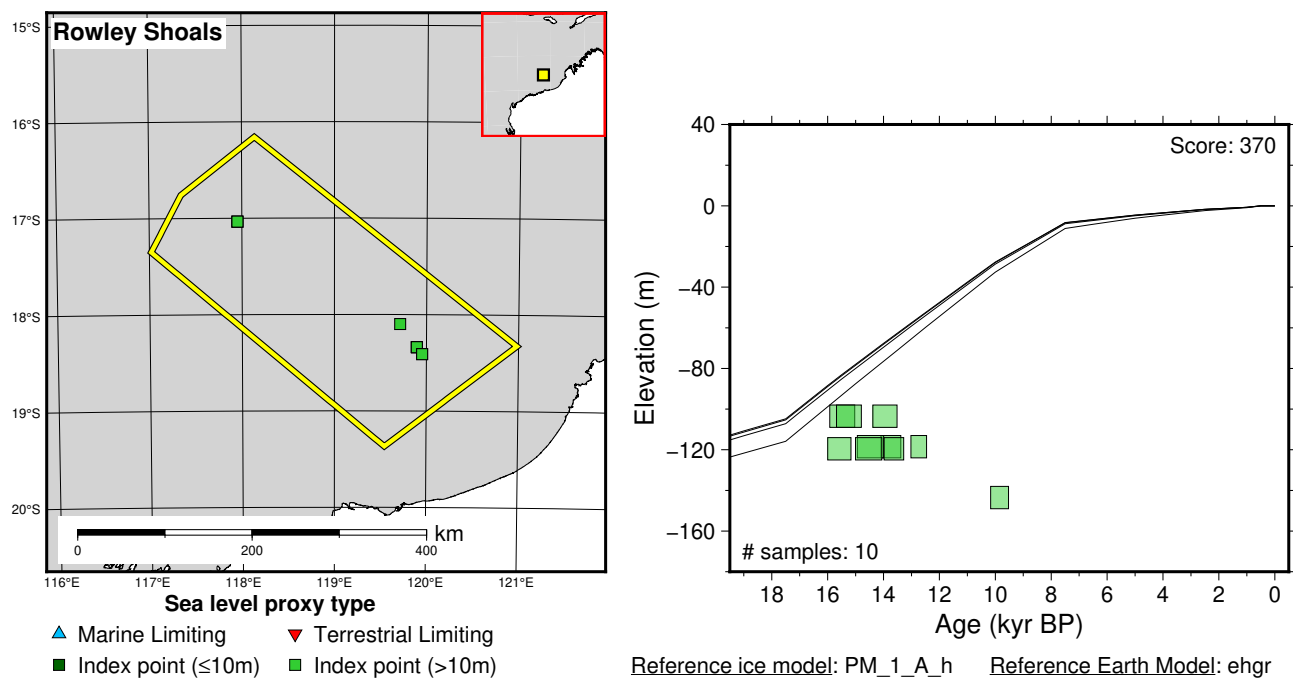


Figure 56: Paleo-sea level and comparison of six models for subregion: Western Australia, location: Rowley Shoals. References: James et al. (2004); Lewis et al. (2013).

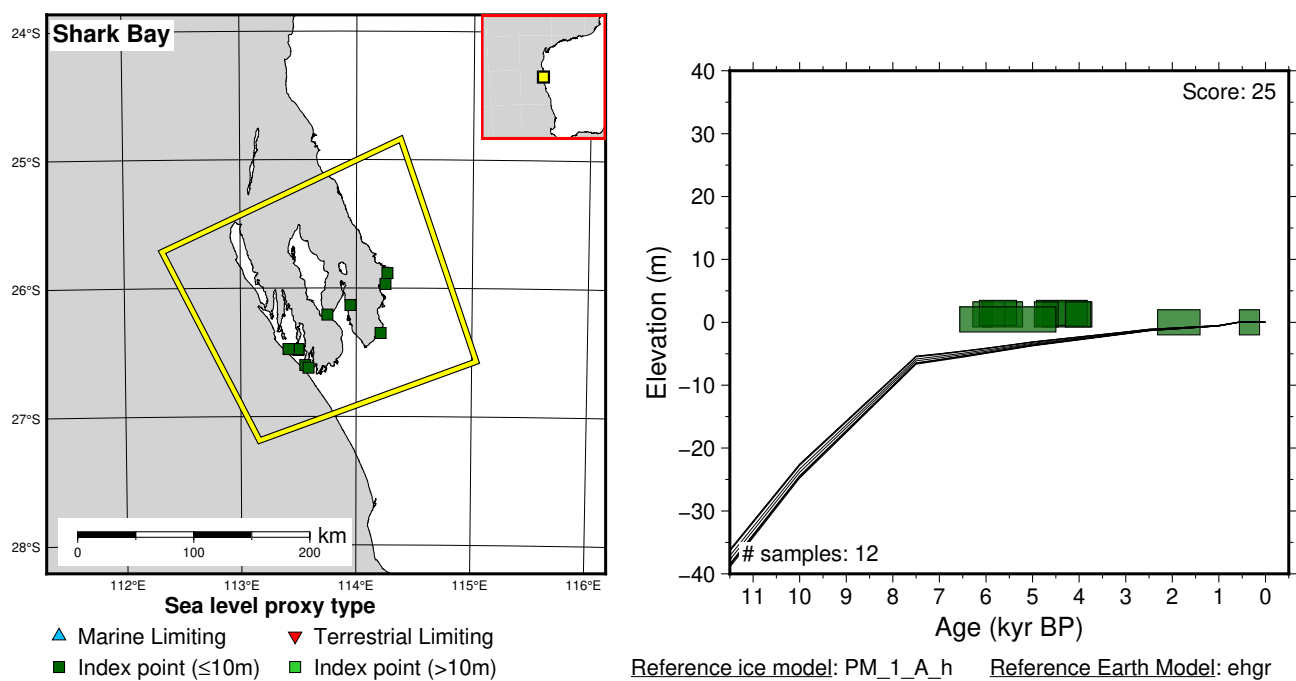


Figure 57: Paleo-sea level and comparison of six models for subregion: Western Australia, location: Shark Bay. References: Lewis et al. (2013); Logan et al. (1970); Noakes and Brandau (1971); Noakes et al. (1967, 1968); Read (1974).

6.3 Caribbean

6.3.1 Lesser Antilles

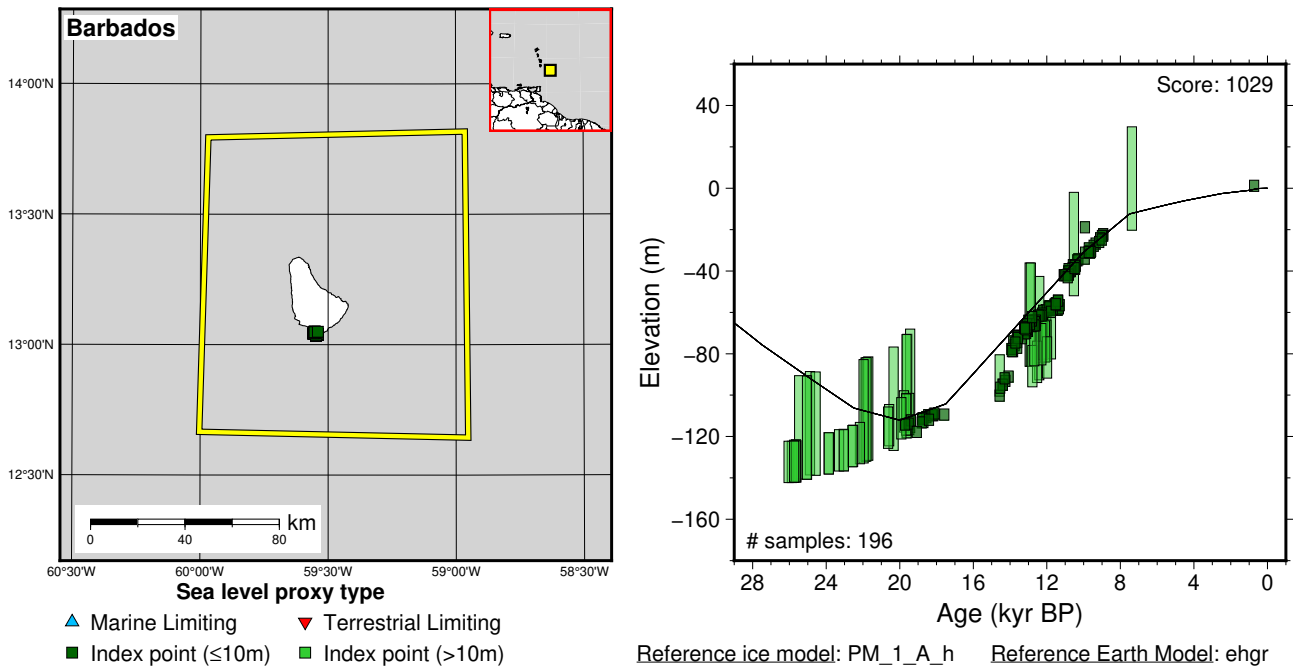


Figure 58: Paleo-sea level and comparison of six models for subregion: Lesser Antilles, location: Barbados. References: Abdul et al. (2016); Fairbanks (1988); Fairbanks et al. (2005); Mortlock et al. (2005, 2016); Peltier and Fairbanks (2006).

6.4 East Asia

6.4.1 Ryukyu Islands

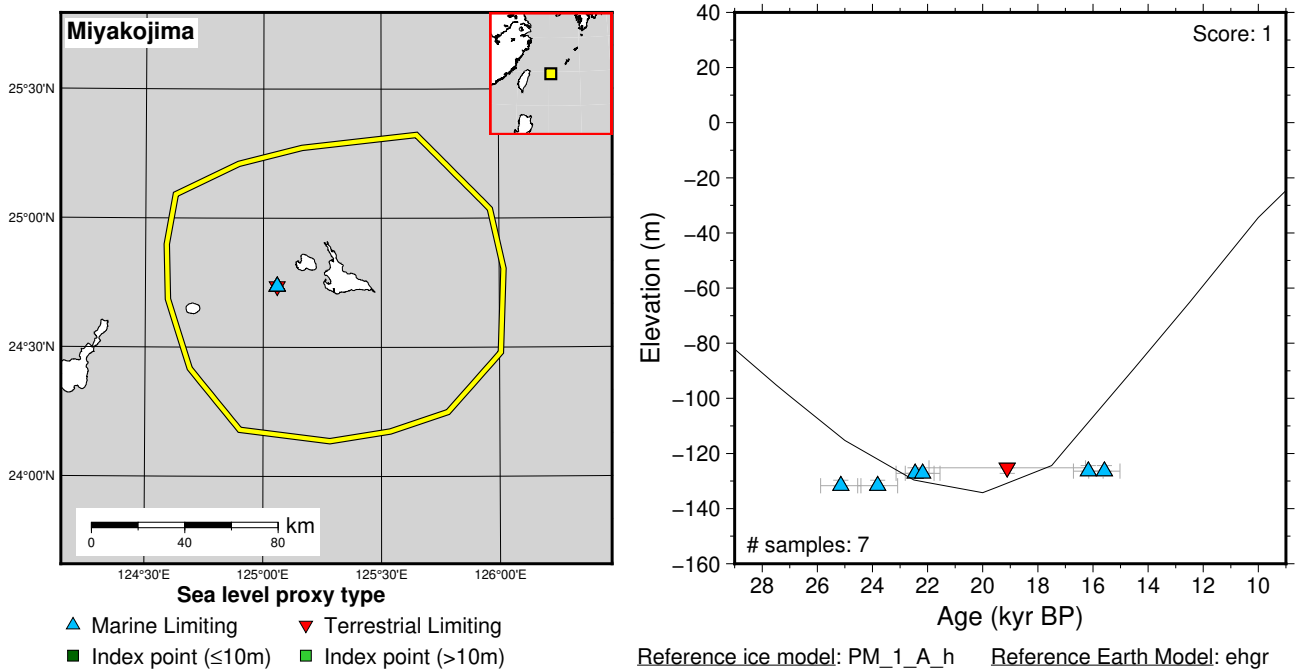


Figure 59: Paleo-sea level and comparison of six models for subregion: Ryukyu Islands, location: Miyakojima. References: Sasaki et al. (2006).

6.4.2 Sea of Japan - East Sea

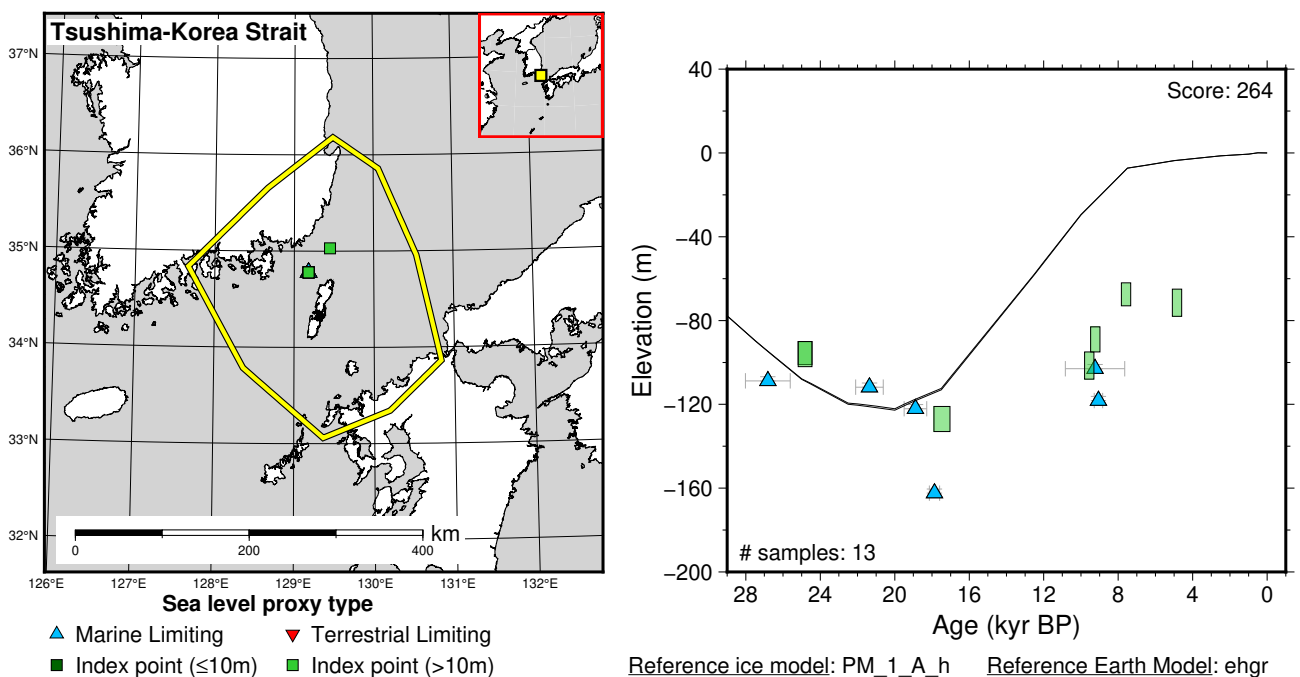


Figure 60: Paleo-sea level and comparison of six models for subregion: Sea of Japan - East Sea, location: Tsushima-Korea Strait. References: Park et al. (2000).

6.5 Eurasian Arctic

6.5.1 Franz Josef Land

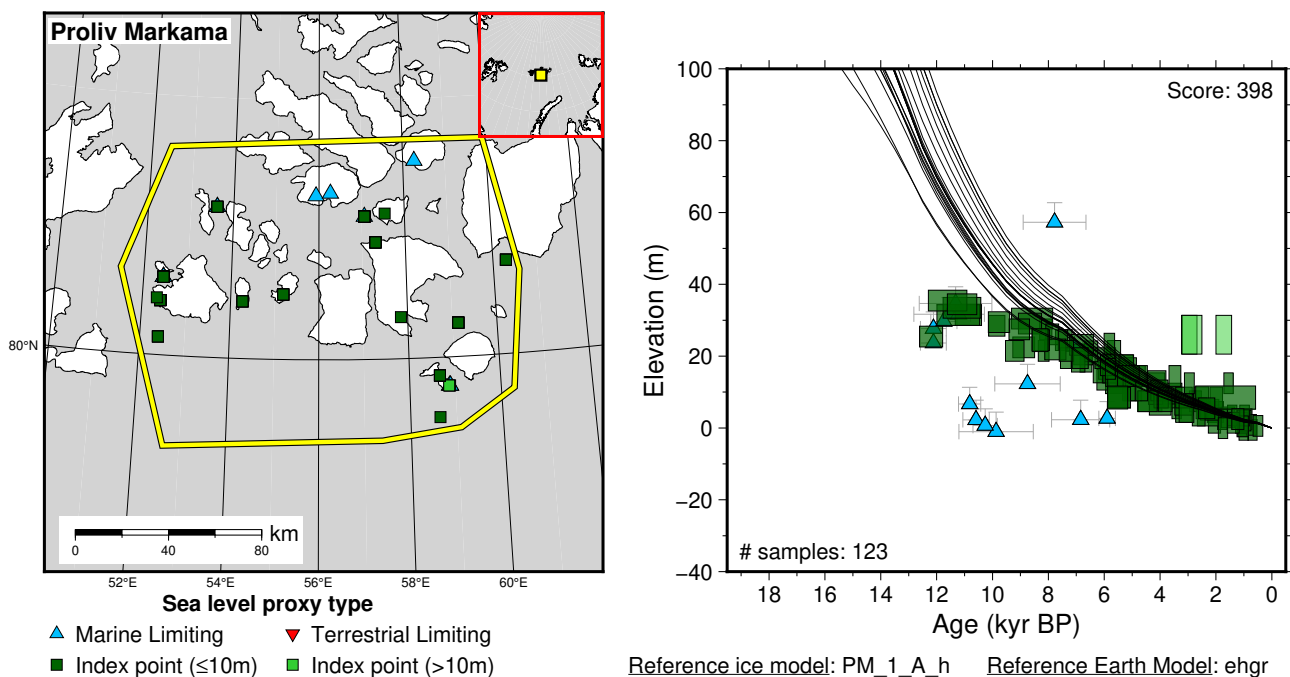


Figure 61: Paleo-sea level and comparison of six models for subregion: Franz Josef Land, location: Proliv Markama. References: Baranskaya et al. (2018a); Bolshiyarov et al. (2009); Forman and Polyak (1997); Forman et al. (1996, 2004); Grosswald (1963); Grosswald et al. (1973); Gusev et al. (2013b); Kovaleva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

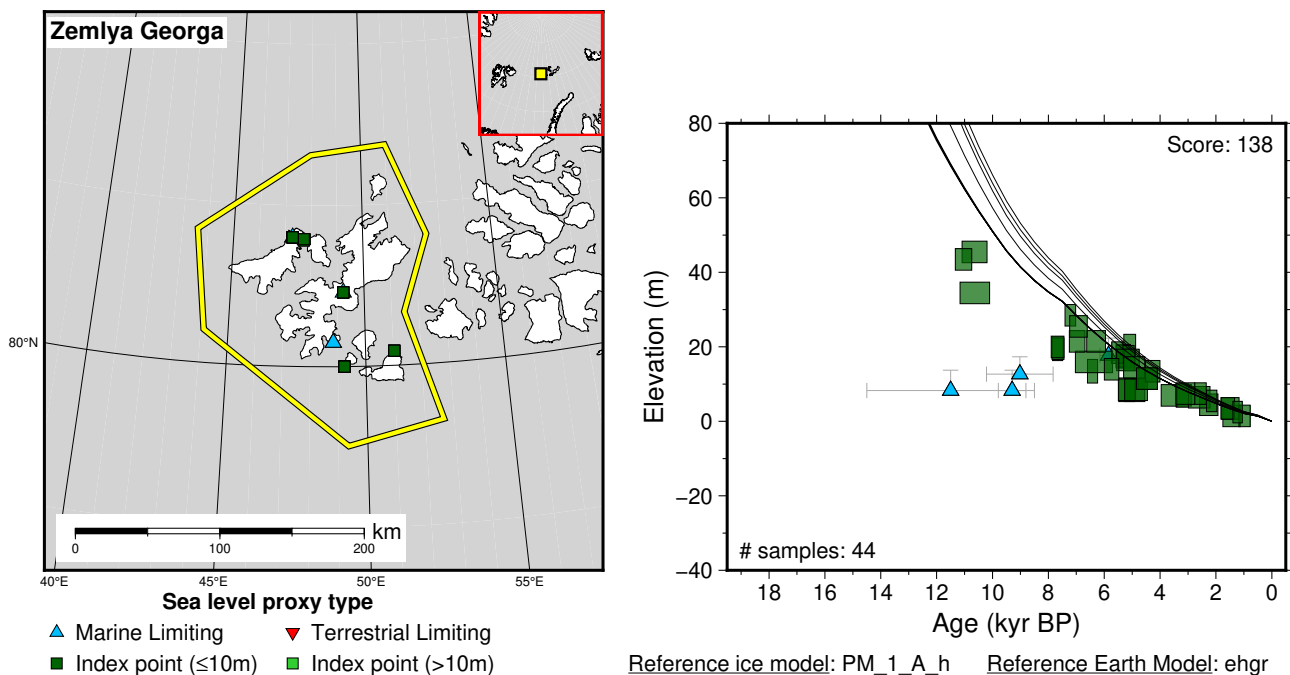


Figure 62: Paleo-sea level and comparison of six models for subregion: Franz Josef Land, location: Zemlya Georga. References: Baranskaya et al. (2018a); Bolshiyarov et al. (2009); Dibner (1965); Forman et al. (1996, 2004); Glazovskiy et al. (1992); Grosswald et al. (1973); Kovaleva (1974).

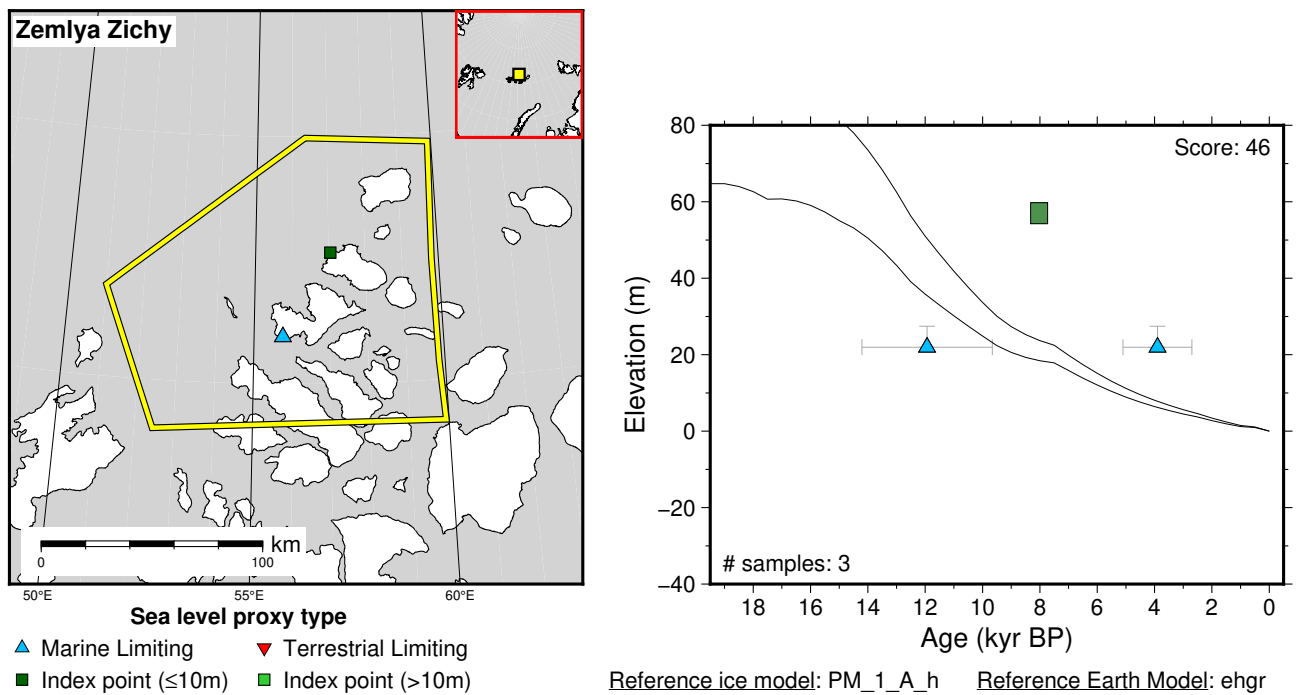


Figure 63: Paleo-sea level and comparison of six models for subregion: Franz Josef Land, location: Zemlya Zichy. References: Baranskaya et al. (2018a); Bolshiyarov et al. (2009).

6.5.2 Kara Sea - Novaya Zemlya

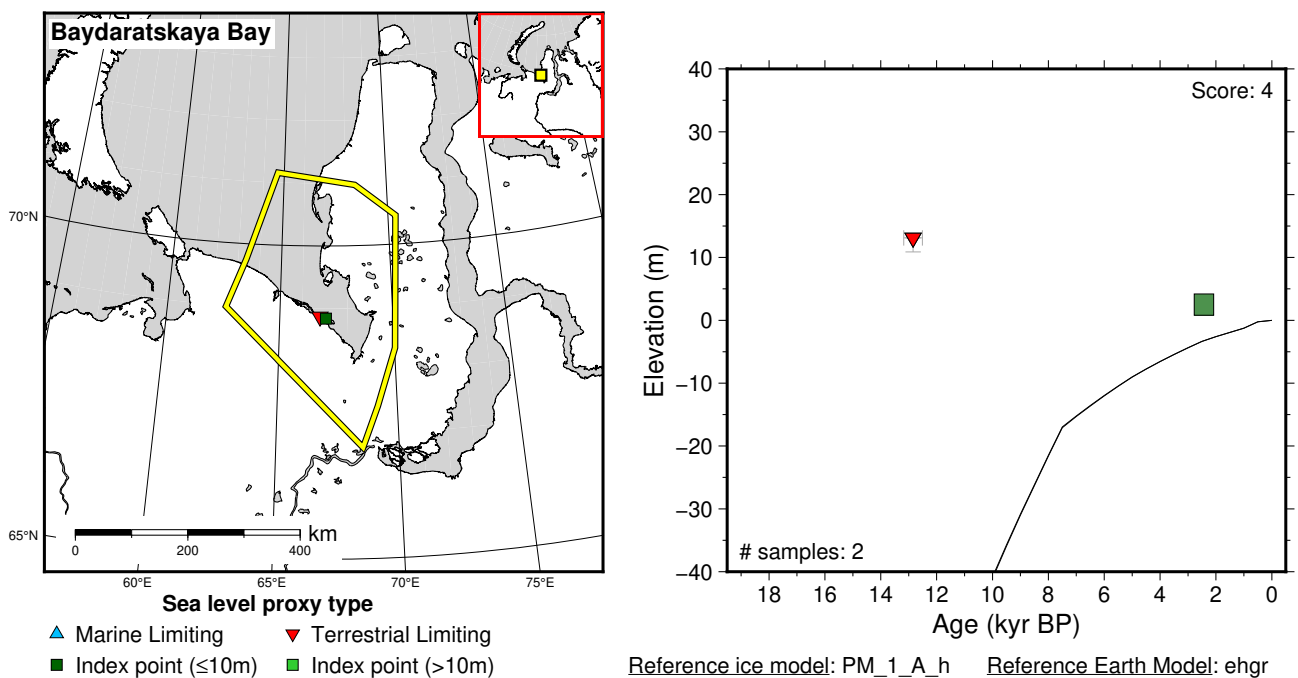


Figure 64: Paleo-sea level and comparison of six models for subregion: Kara Sea - Novaya Zemlya, location: Baydaratskaya Bay. References: Baranskaya et al. (2018a); Belova (2012); Romanenko et al. (2007).

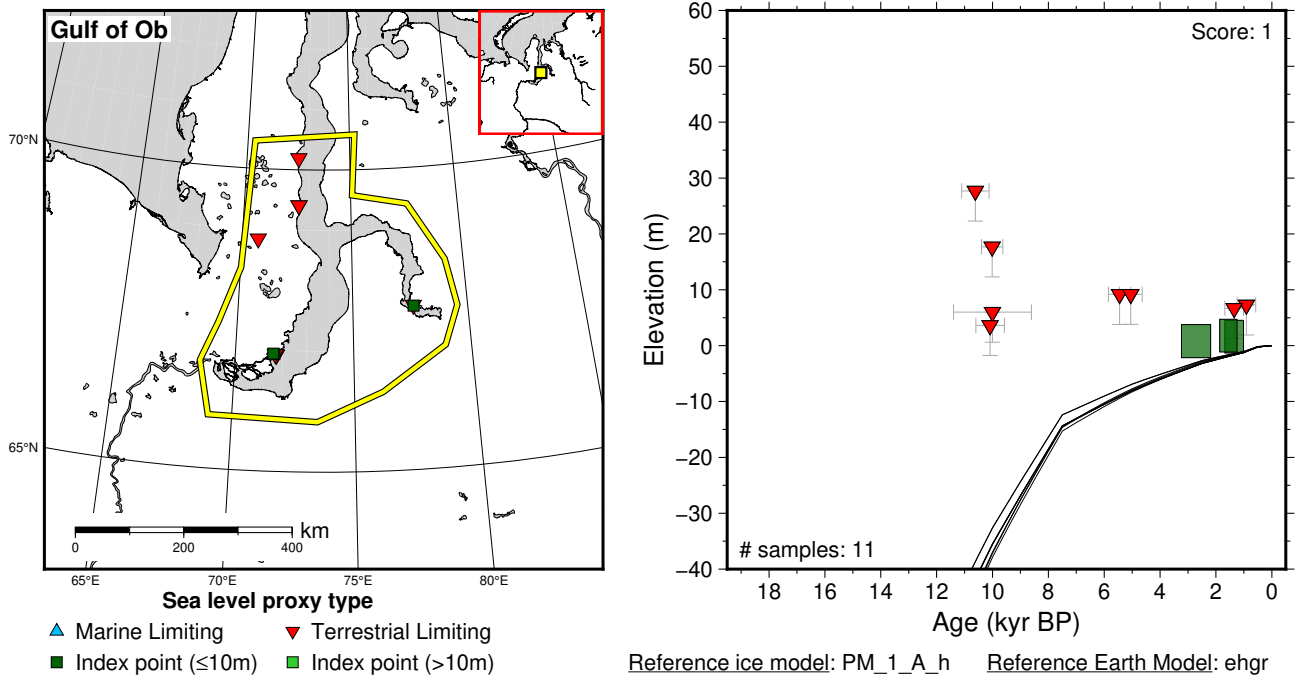


Figure 65: Paleo-sea level and comparison of six models for subregion: Kara Sea - Novaya Zemlya, location: Gulf of Ob. References: Astakhov and Nazarov (2010); Baranskaya et al. (2018a); Makeev (1988); Makeev et al. (1988).

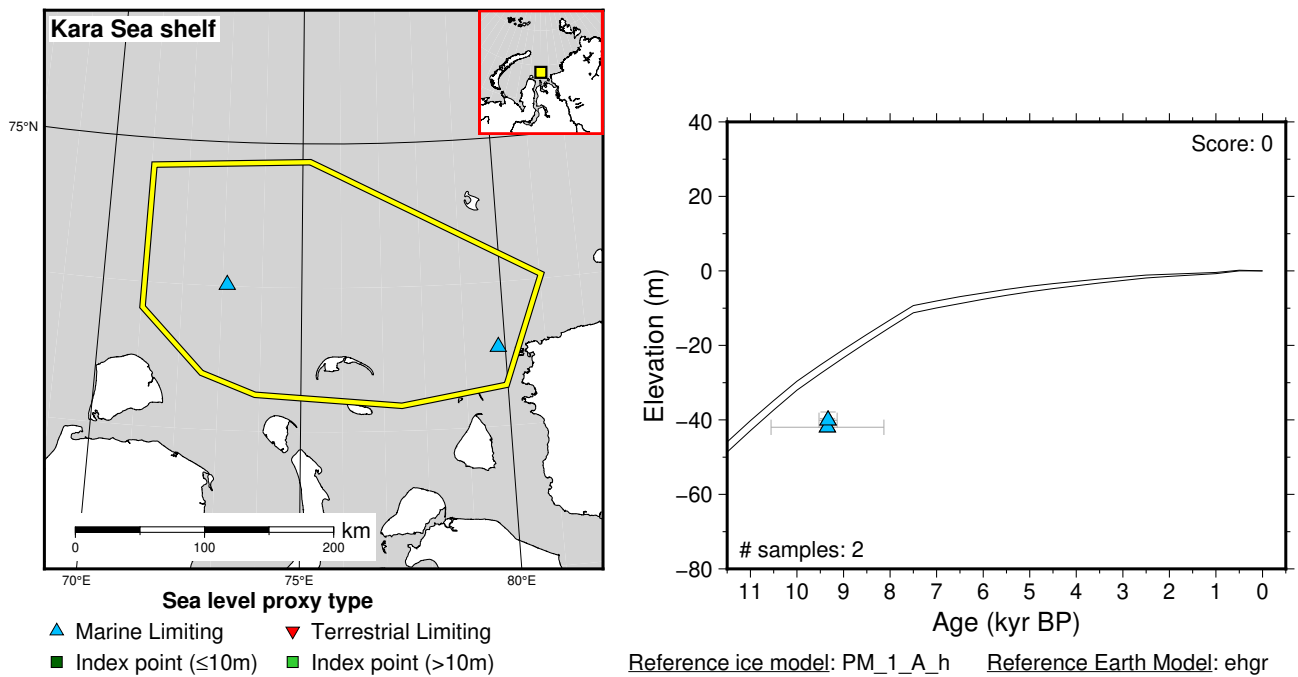


Figure 66: Paleo-sea level and comparison of six models for subregion: Kara Sea - Novaya Zemlya, location: Kara Sea shelf. References: Baranskaya et al. (2018a); Levitan et al. (2007); Polyakova and Stein (2004).

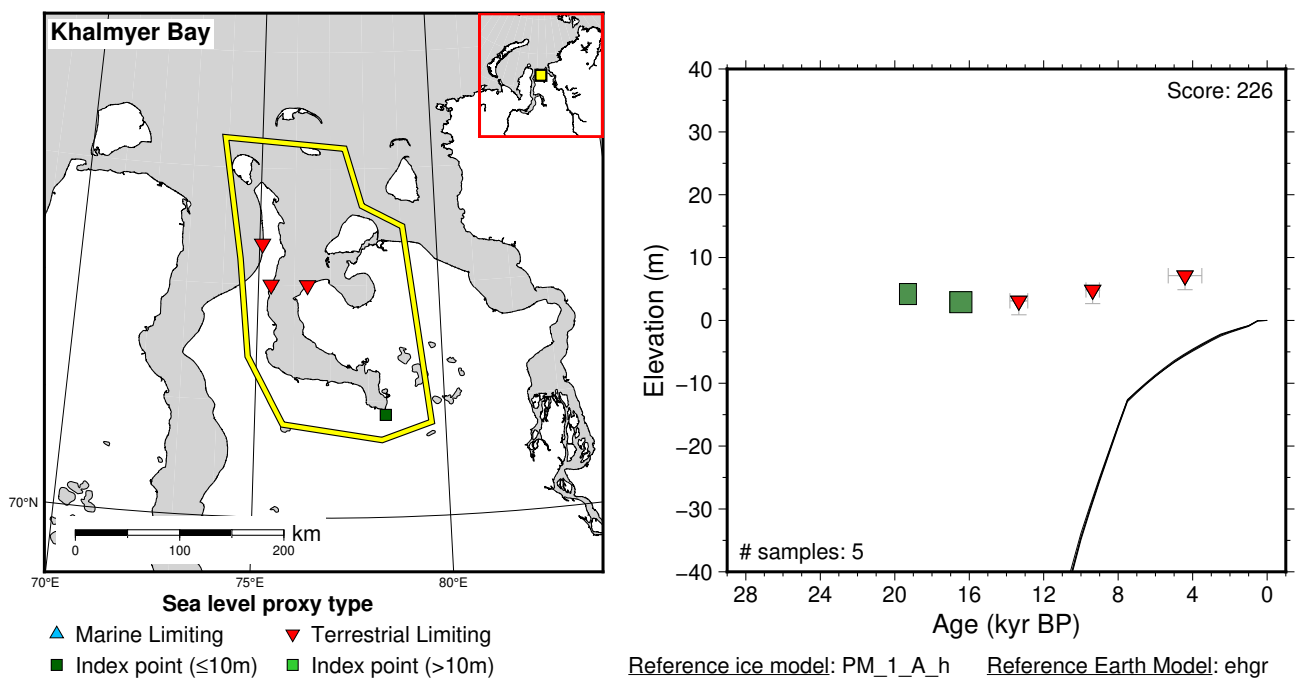


Figure 67: Paleo-sea level and comparison of six models for subregion: Kara Sea - Novaya Zemlya, location: Khalmyer Bay. References: Baranskaya et al. (2018a,b); Grigorieva (1987).

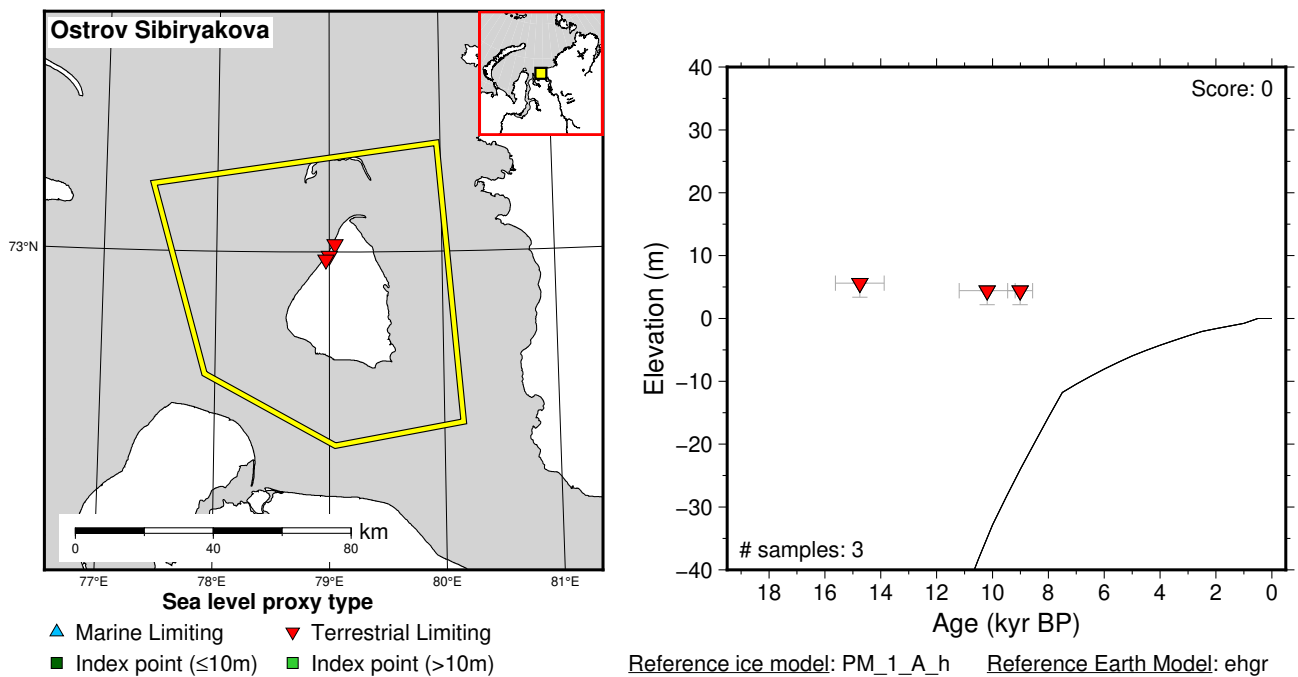


Figure 68: Paleo-sea level and comparison of six models for subregion: Kara Sea - Novaya Zemlya, location: Ostrov Sibiryakova. References: Baranskaya et al. (2018a); Gusev et al. (2013a).

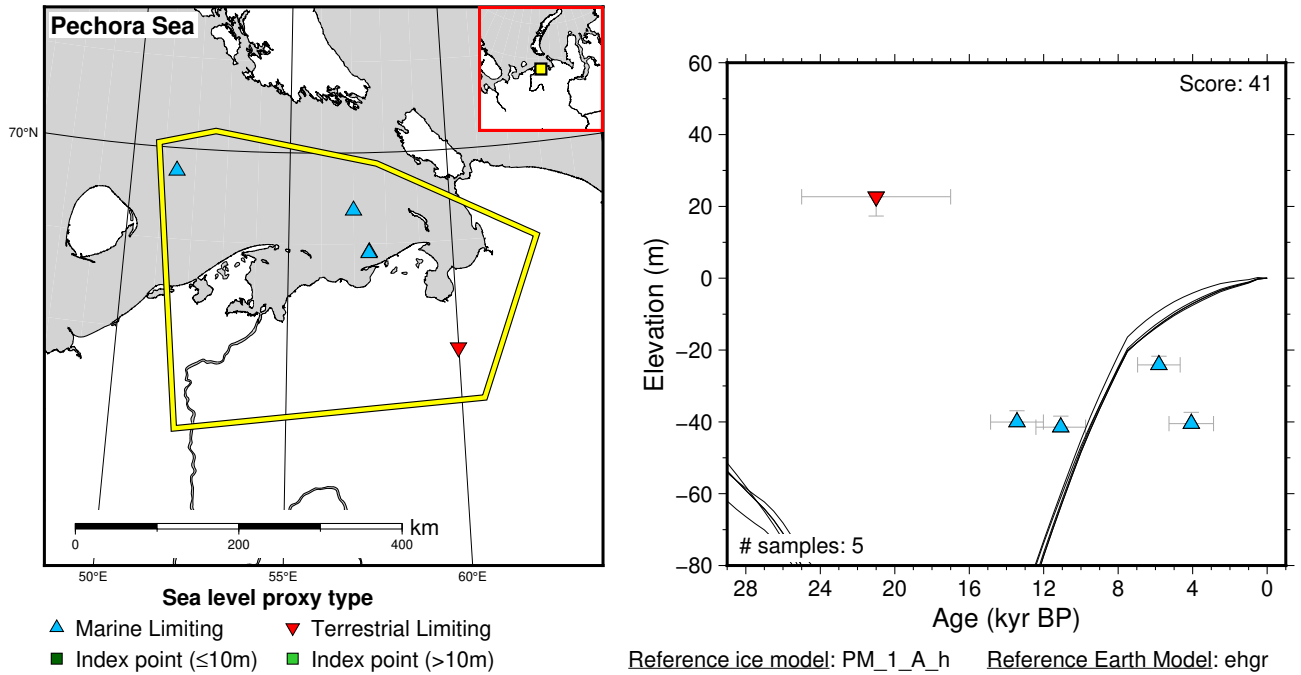


Figure 69: Paleo-sea level and comparison of six models for subregion: Kara Sea - Novaya Zemlya, location: Pechora Sea. References: Astakhov et al. (2007); Baranskaya et al. (2018a); Krapivner (2006); Polyak et al. (2000); Zhuravlev et al. (2013).

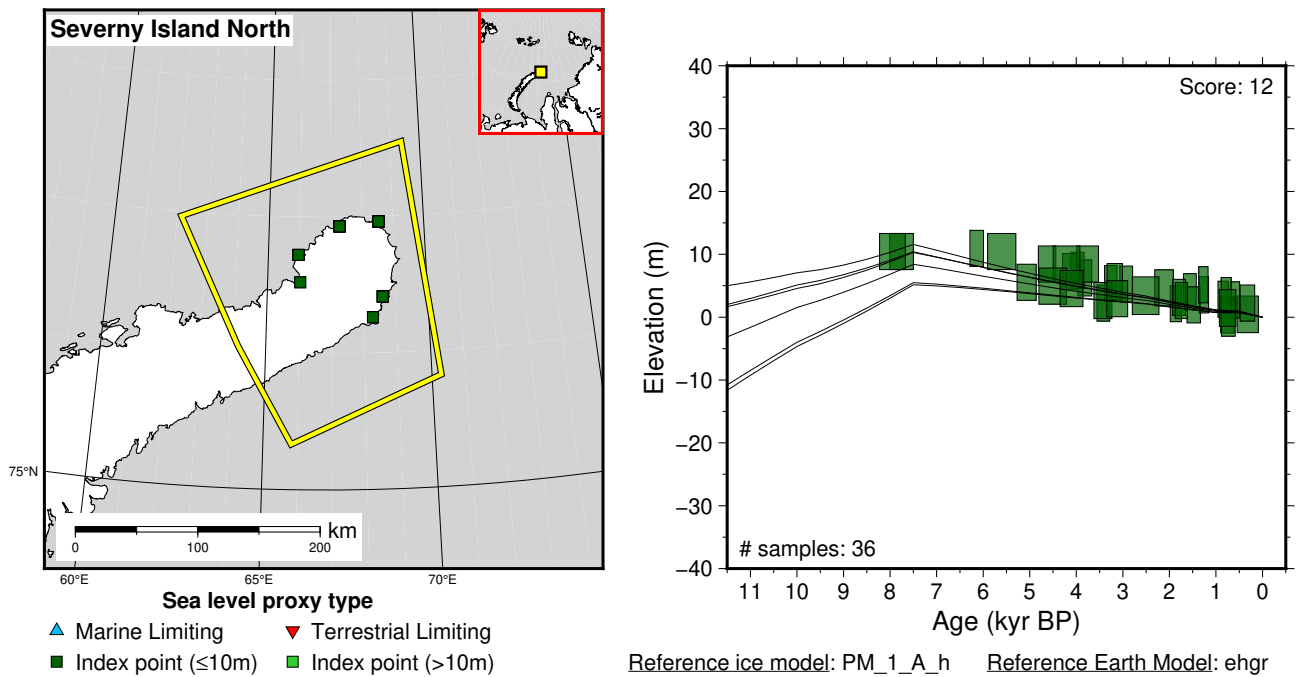


Figure 70: Paleo-sea level and comparison of six models for subregion: Kara Sea - Novaya Zemlya, location: Severny Island North. References: Baranskaya et al. (2018a); Forman et al. (1999, 2004); Gawronski and Zeeberg (1997); Zeeberg et al. (2001).

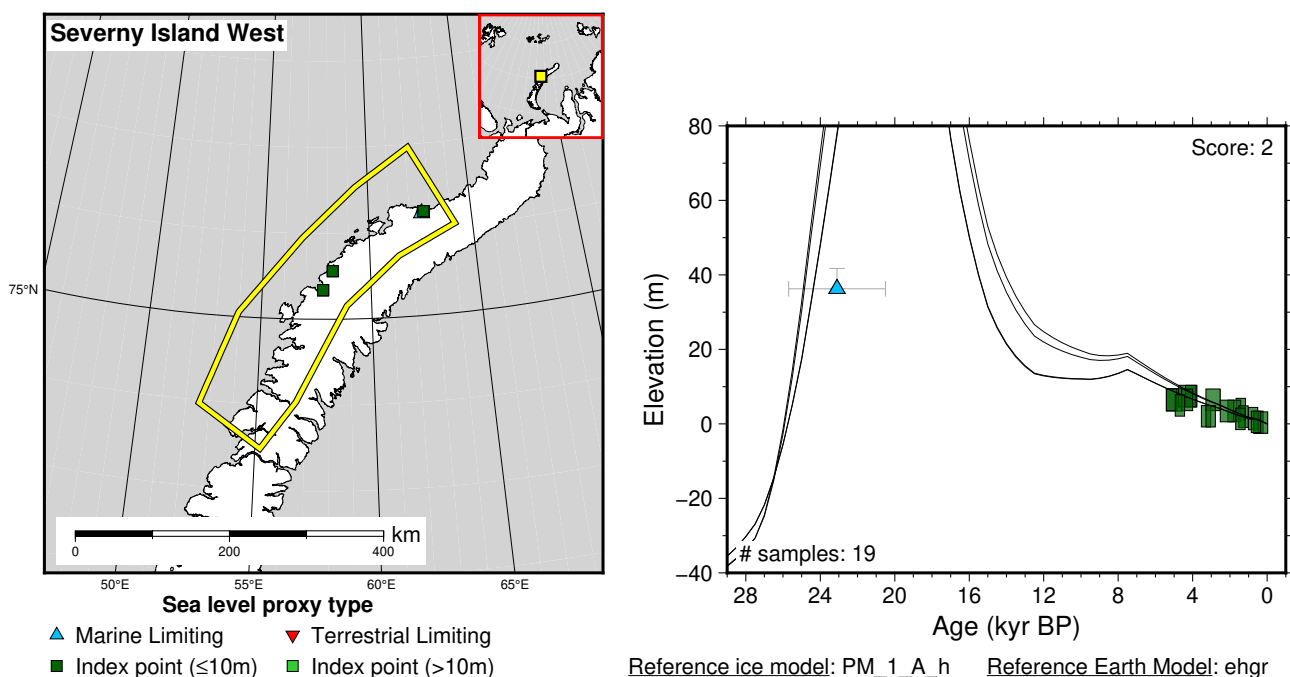


Figure 71: Paleo-sea level and comparison of six models for subregion: Kara Sea - Novaya Zemlya, location: Severny Island West. References: Baranskaya et al. (2018a); Bolshiyarov et al. (2009); Forman et al. (1999, 2004); Zeeberg et al. (2001).

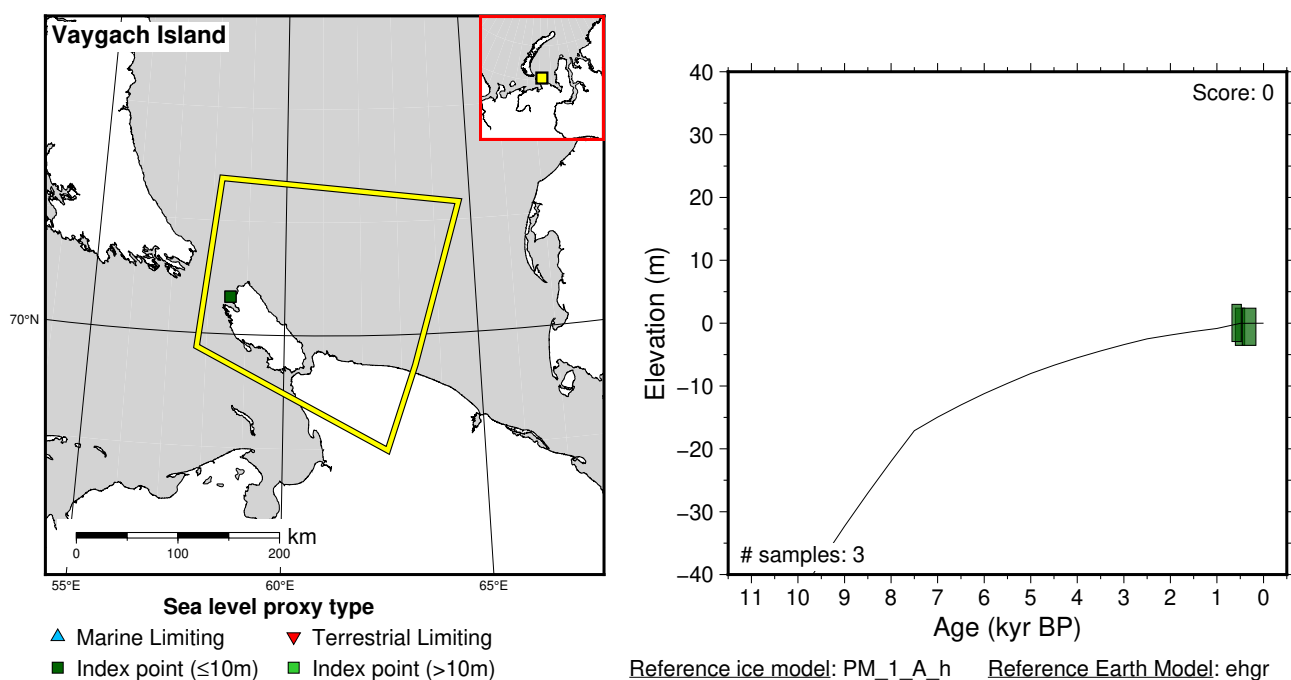


Figure 72: Paleo-sea level and comparison of six models for subregion: Kara Sea - Novaya Zemlya, location: Vaygach Island. References: Baranskaya et al. (2018a); Forman et al. (2004); Zeeberg et al. (2001).

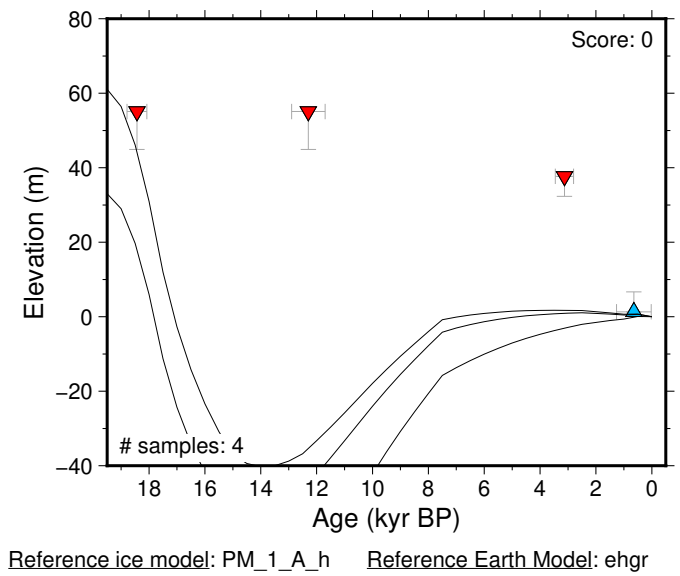
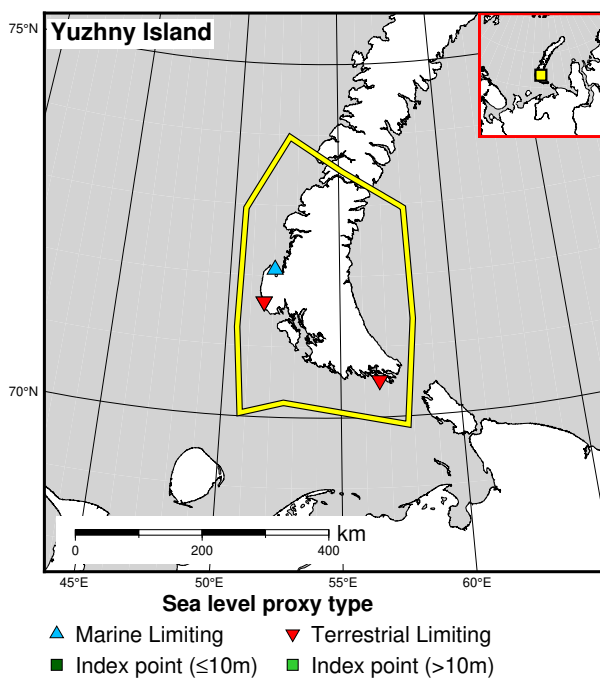


Figure 73: Paleo-sea level and comparison of six models for subregion: Kara Sea - Novaya Zemlya, location: Yuzhny Island. References: Baranskaya et al. (2018a); Bolshiyarov et al. (2006); Mangerud et al. (2008); Zhuravlev et al. (2013).

6.5.3 Southern Barents Sea

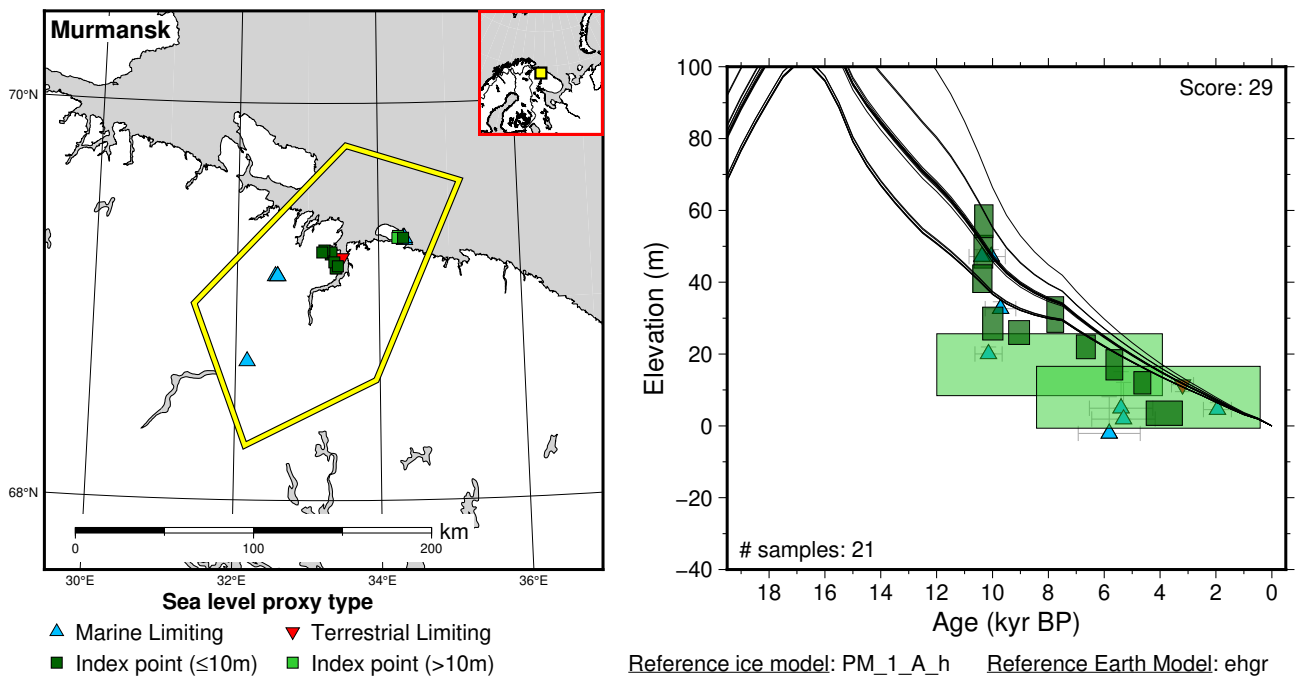


Figure 74: Paleo-sea level and comparison of six models for subregion: Southern Barents Sea, location: Murmansk. References: Arslanov et al. (1974); Baranskaya et al. (2018a); Corner et al. (2001); Gurevich and Liyva (1975); Gurina (1971); Mityaev M. V. (2008); Tanner (1907).

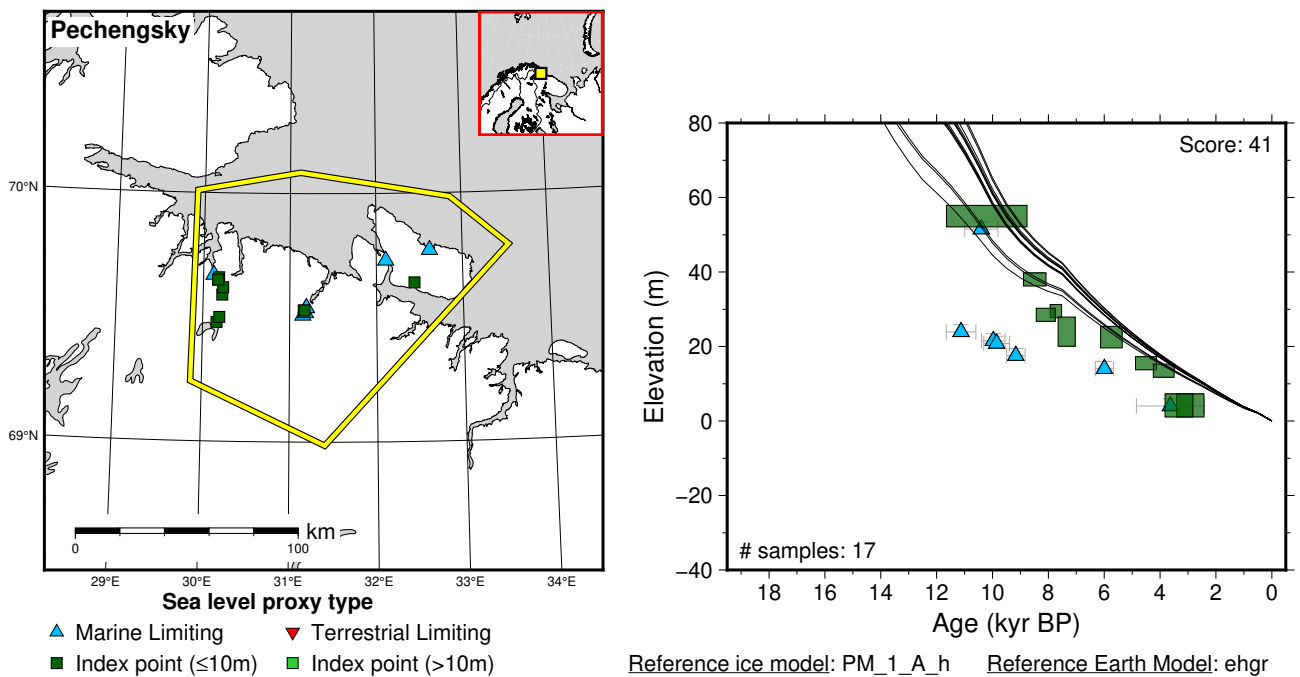


Figure 75: Paleo-sea level and comparison of six models for subregion: Southern Barents Sea, location: Pechengsky. References: Arslanov et al. (1974); Baranskaya et al. (2018a); Corner et al. (1999); Koshechkin (1979).

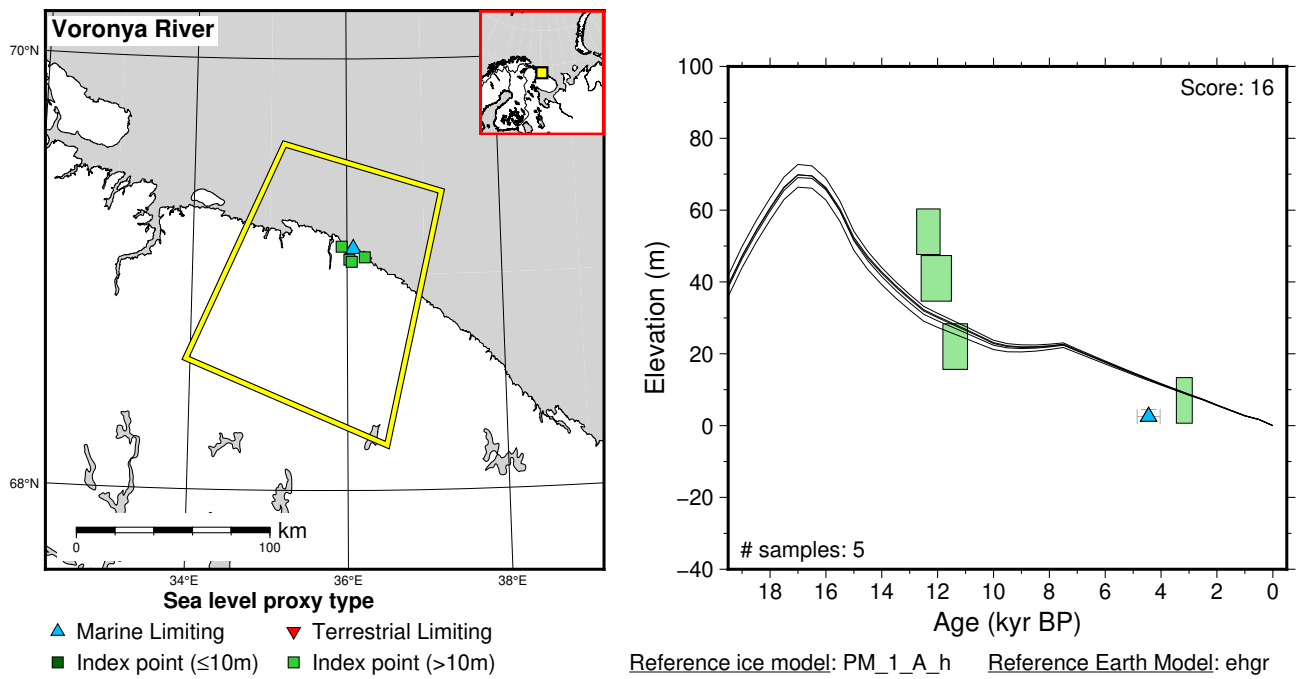


Figure 76: Paleo-sea level and comparison of six models for subregion: Southern Barents Sea, location: Voronya River. References: Arslanov et al. (1974); Baranskaya et al. (2018a); Snyder et al. (1997).

6.5.4 Western Siberia

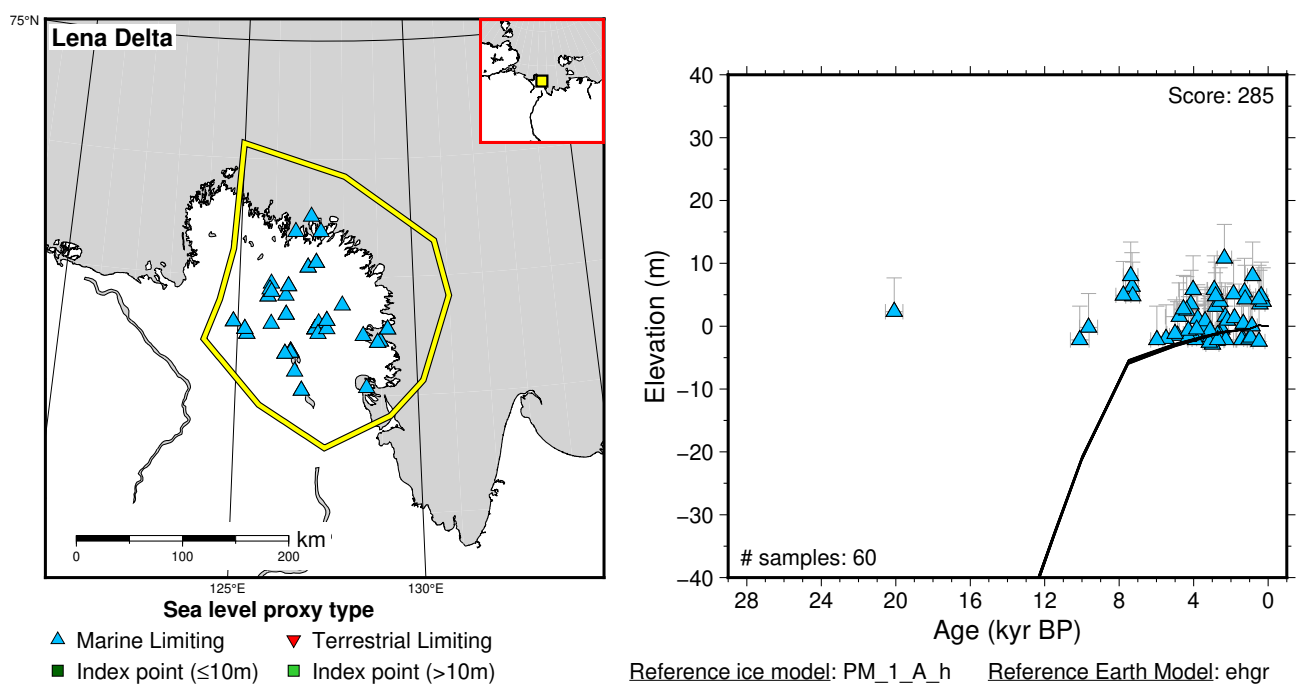


Figure 77: Paleo-sea level and comparison of six models for subregion: Western Siberia, location: Lena Delta. References: Baranskaya et al. (2018a); Makarov (2009).

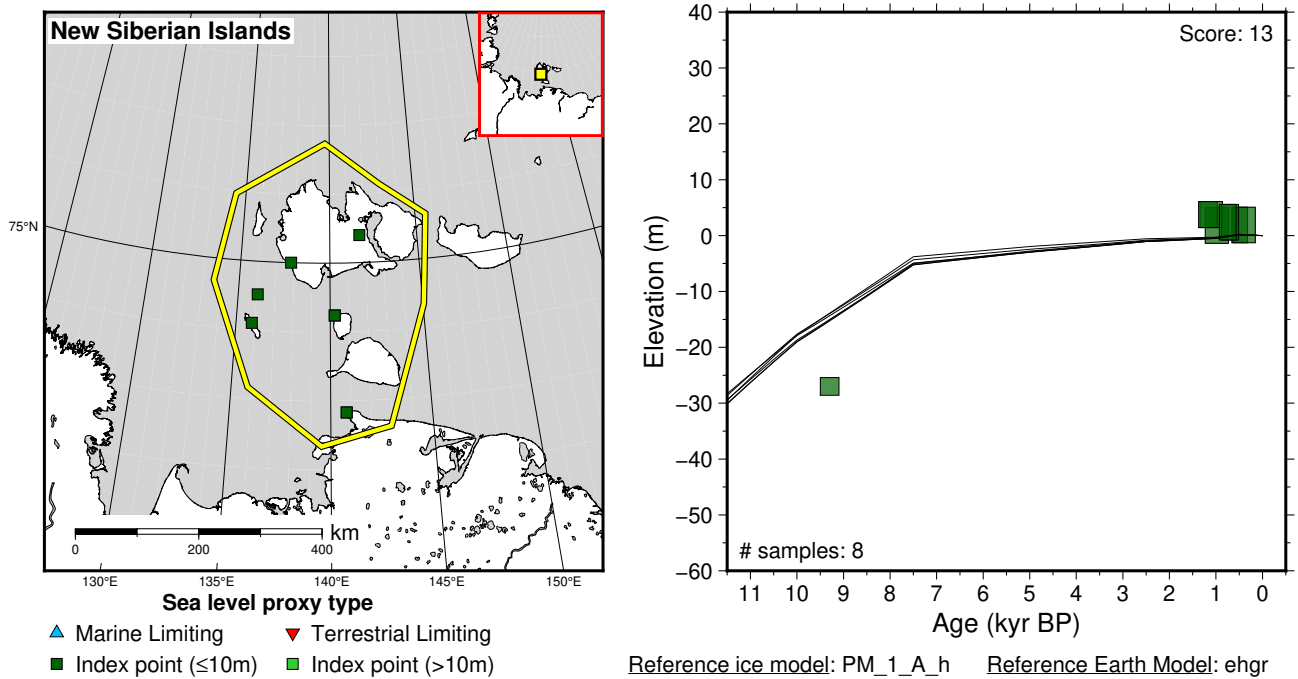


Figure 78: Paleo-sea level and comparison of six models for subregion: Western Siberia, location: New Siberian Islands. References: Anisimov et al. (2009a); Baranskaya et al. (2018a); Bolshiyarov et al. (2013); Polyakova et al. (2005).

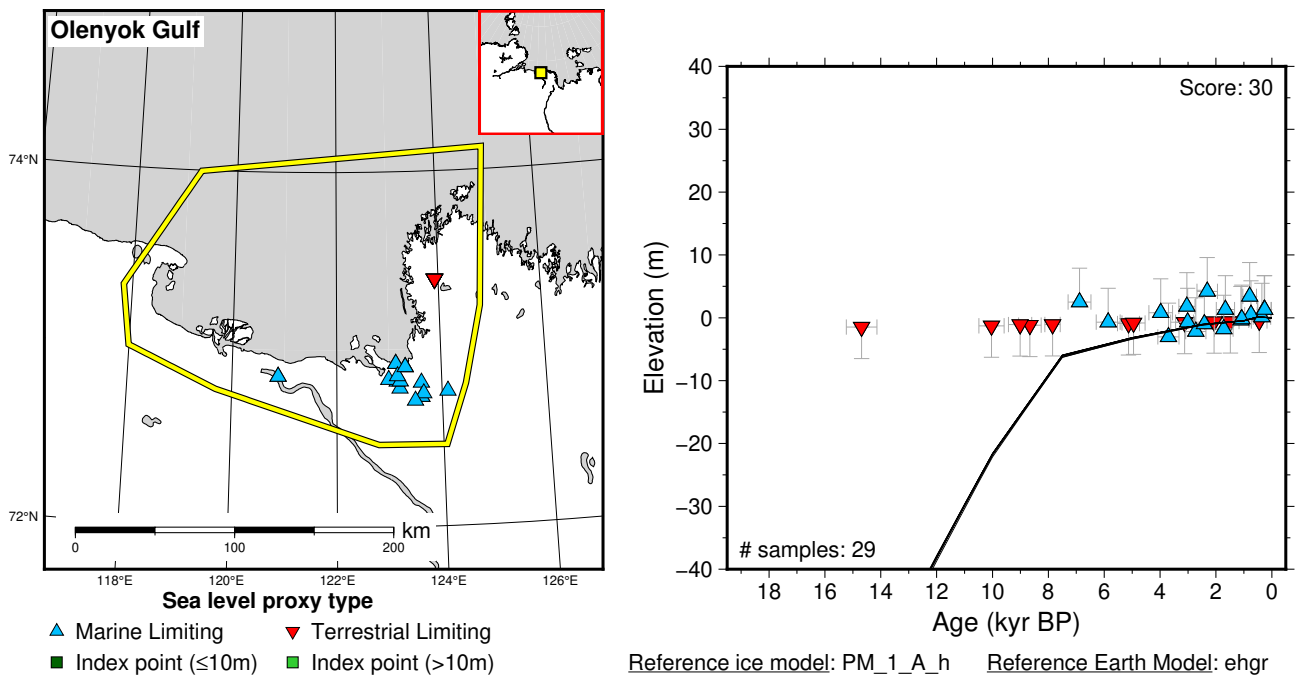


Figure 79: Paleo-sea level and comparison of six models for subregion: Western Siberia, location: Olenyok Gulf. References: Andreev et al. (2004); Baranskaya et al. (2018a); Bolshiyarov et al. (2013); Makarov (2009).

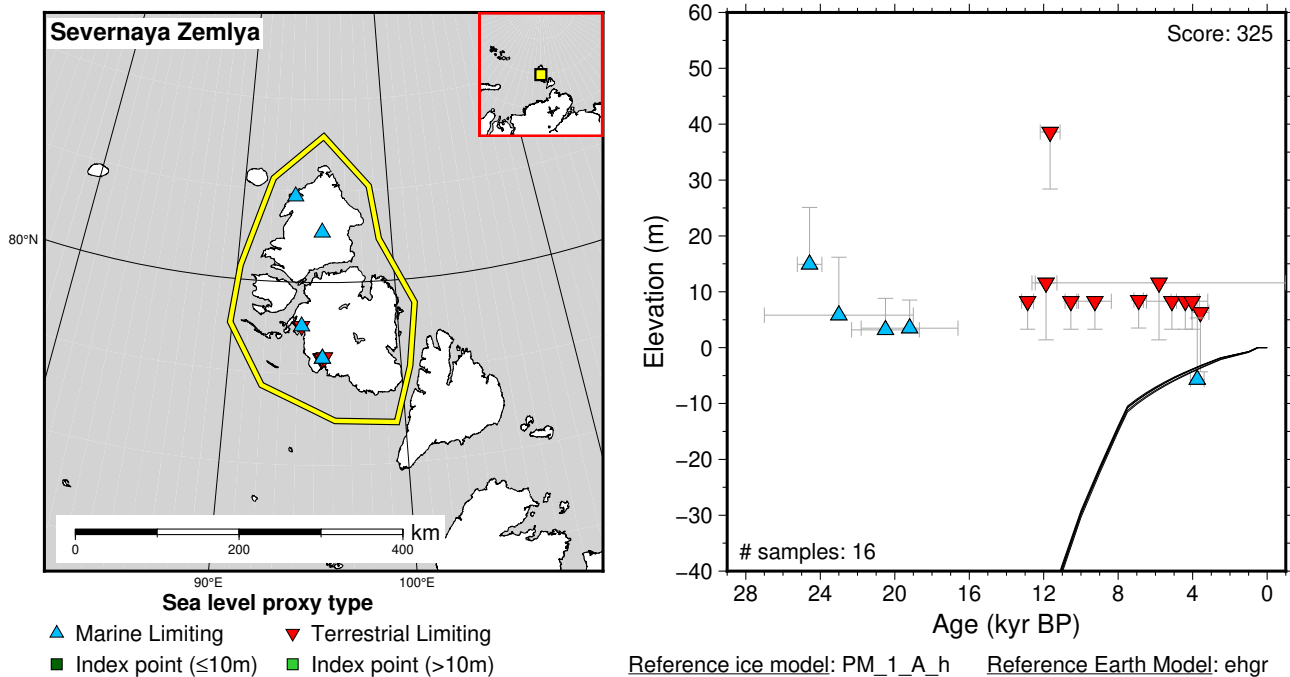


Figure 80: Paleo-sea level and comparison of six models for subregion: Western Siberia, location: Severnaya Zemlya. References: Baranskaya et al. (2018a); Bolshiyarov and Makeev (1995); Raab et al. (2003).

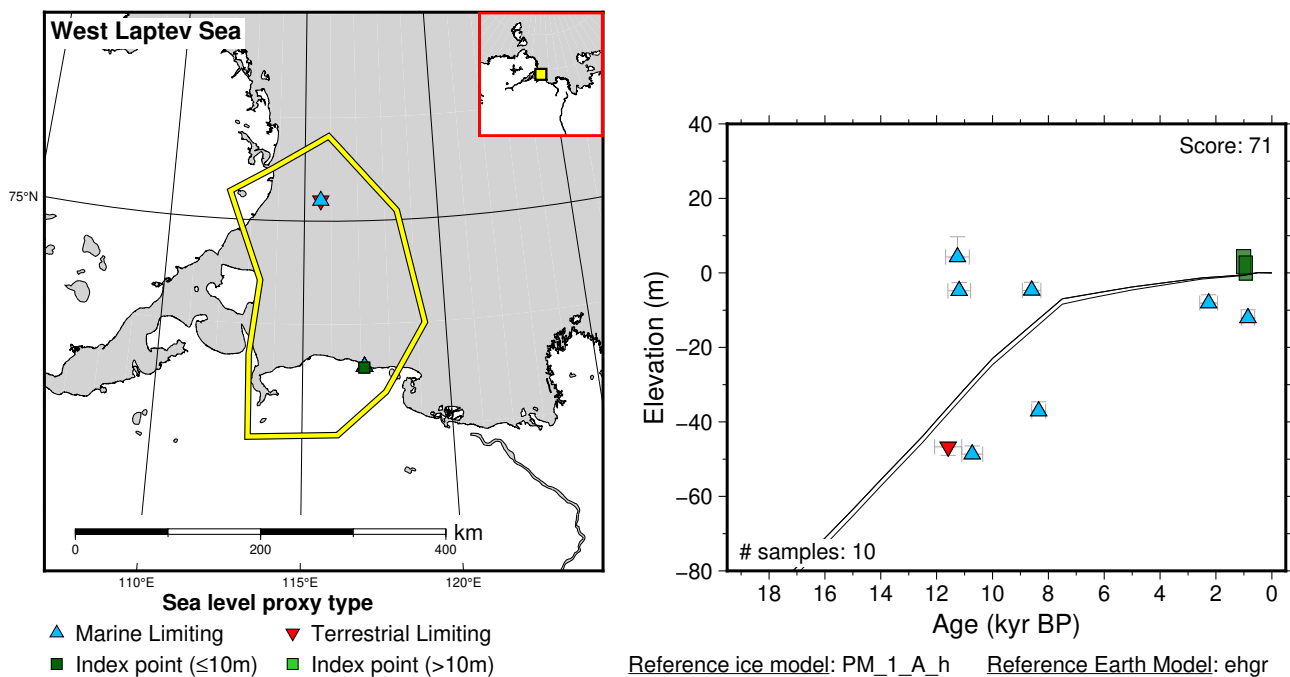


Figure 81: Paleo-sea level and comparison of six models for subregion: Western Siberia, location: West Laptev Sea. References: Baranskaya et al. (2018a); Bauch et al. (1999); Bolshiyarov et al. (2013); Winterfeld et al. (2011).

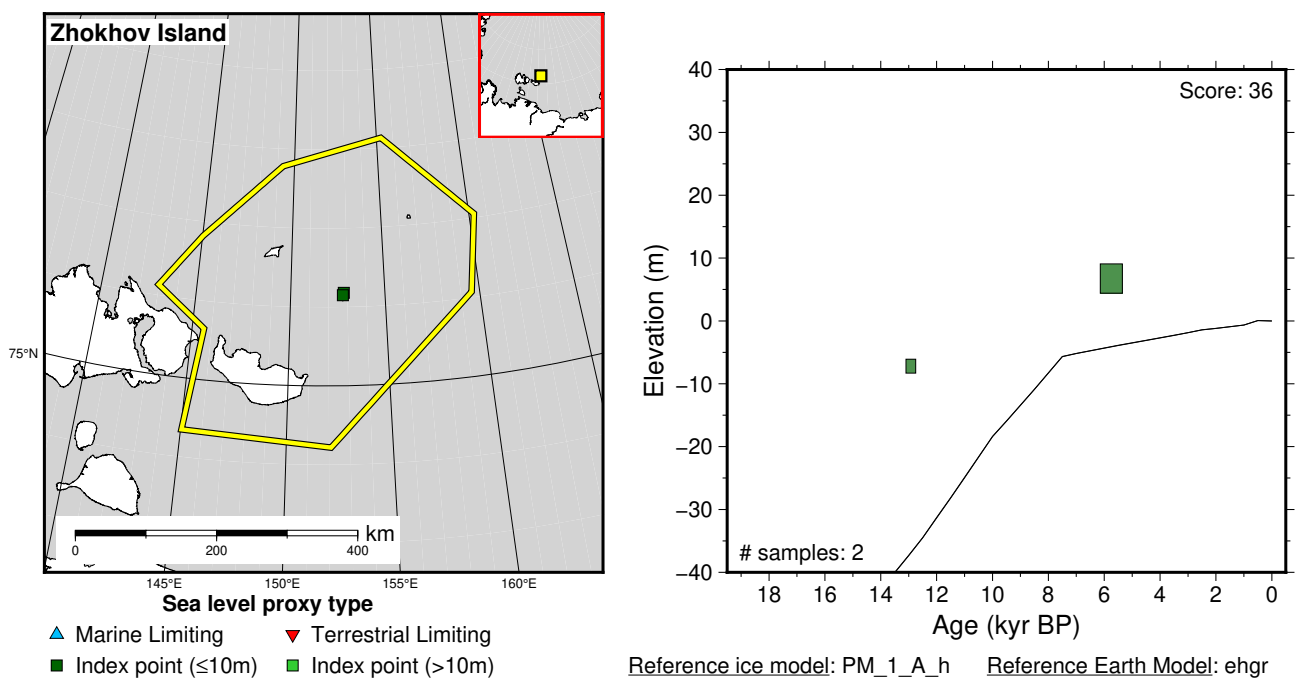


Figure 82: Paleo-sea level and comparison of six models for subregion: Western Siberia, location: Zhokhov Island. References: Anisimov et al. (2009b); Baranskaya et al. (2018a).

6.5.5 White Sea

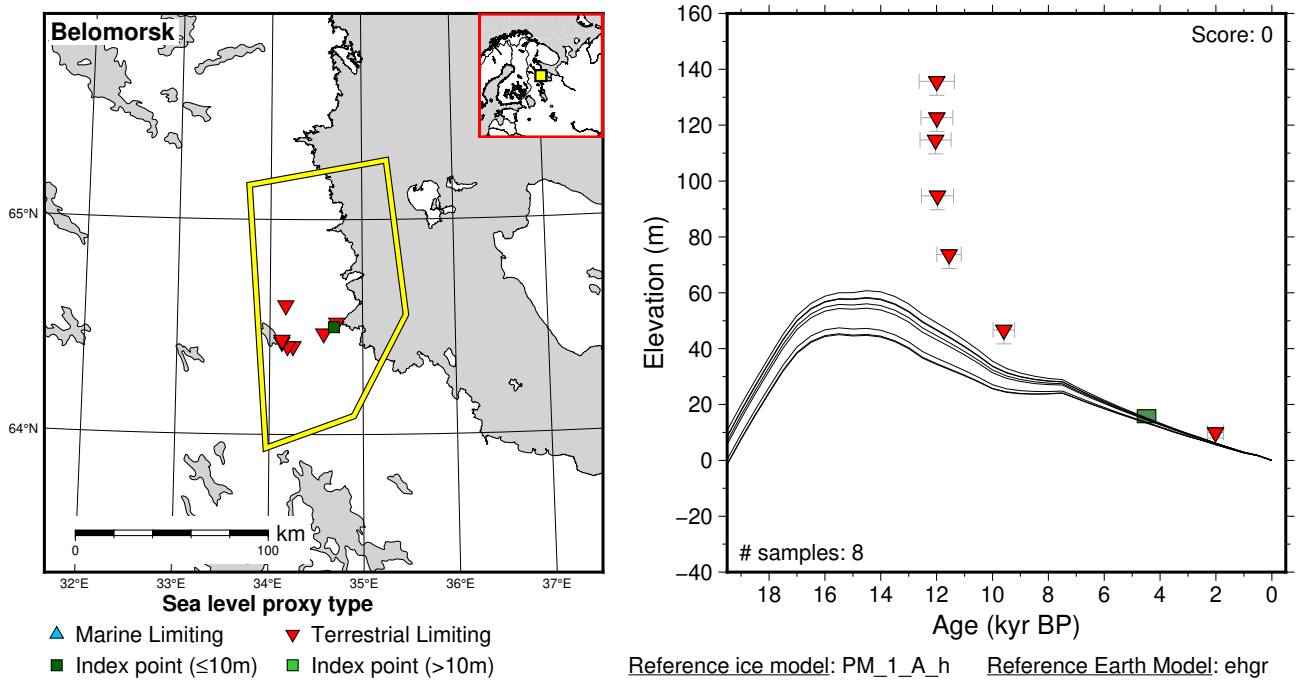


Figure 83: Paleo-sea level and comparison of six models for subregion: White Sea, location: Belomorsk. References: Baranskaya et al. (2018a); Devyatova and Liyva (1971); Koshechkin (1979); Lunkka et al. (2012).

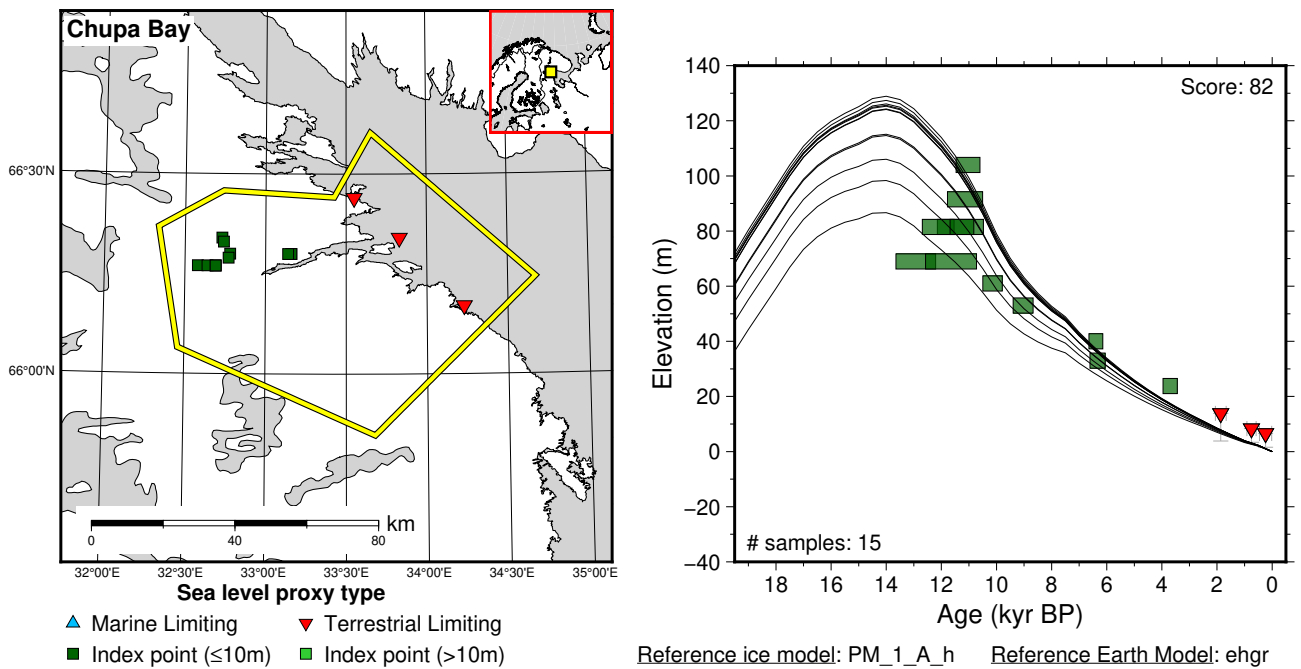


Figure 84: Paleo-sea level and comparison of six models for subregion: White Sea, location: Chupa Bay. References: Baranskaya and Romanenko (2015); Baranskaya et al. (2018a); Kolka et al. (2015).

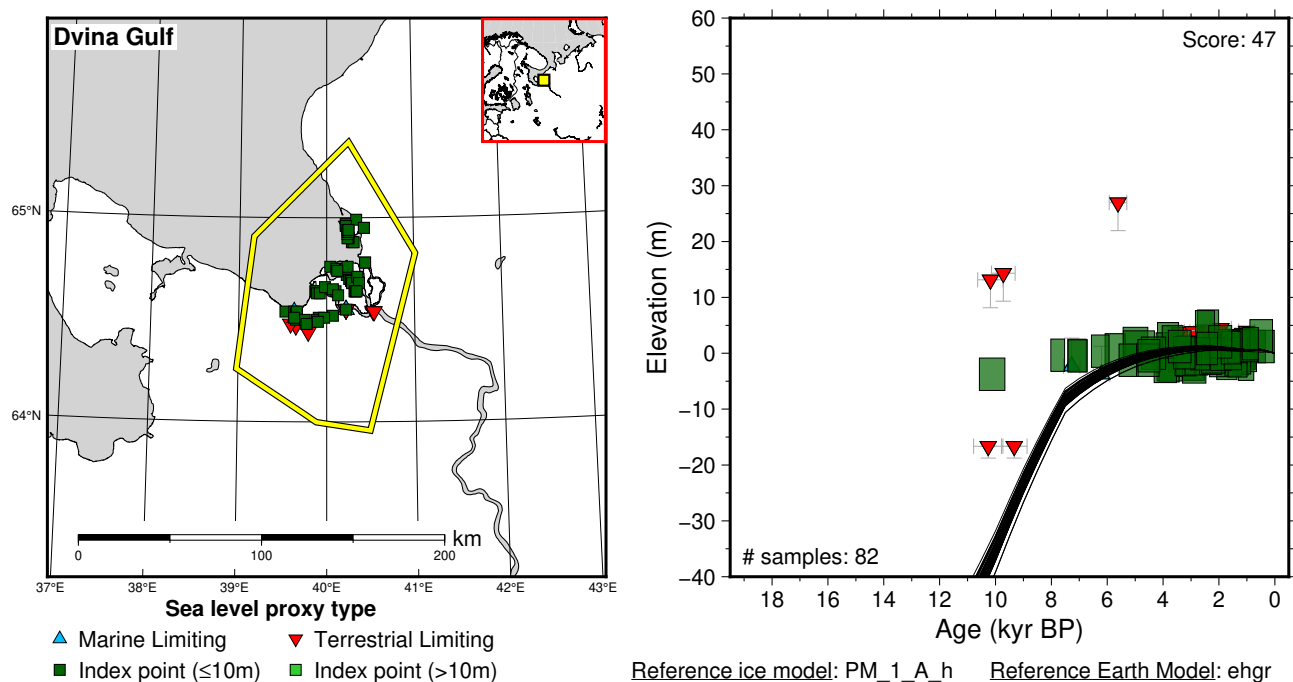


Figure 85: Paleo-sea level and comparison of six models for subregion: White Sea, location: Dvina Gulf. References: Baranskaya et al. (2018a); Koshechkin (1979); Zaretskaya et al. (2011).

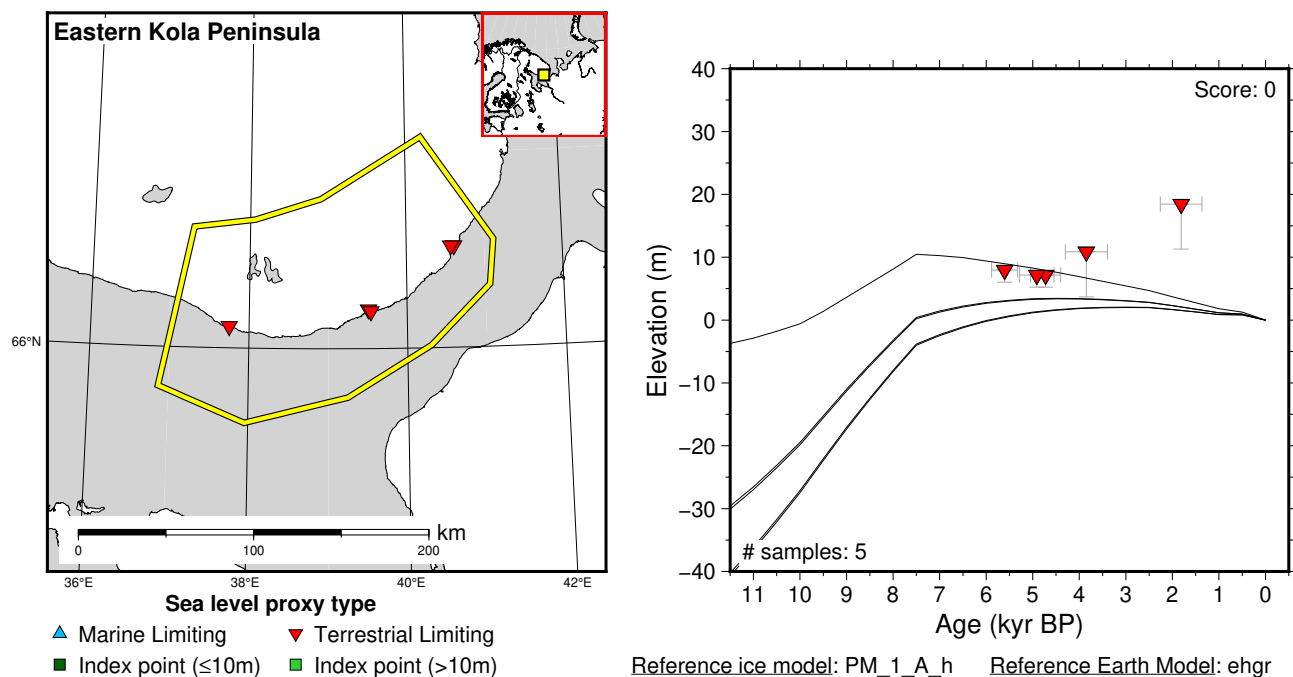


Figure 86: Paleo-sea level and comparison of six models for subregion: White Sea, location: Eastern Kola Peninsula. References: Arslanov et al. (1974); Baranskaya et al. (2018a); Koshechkin (1979).

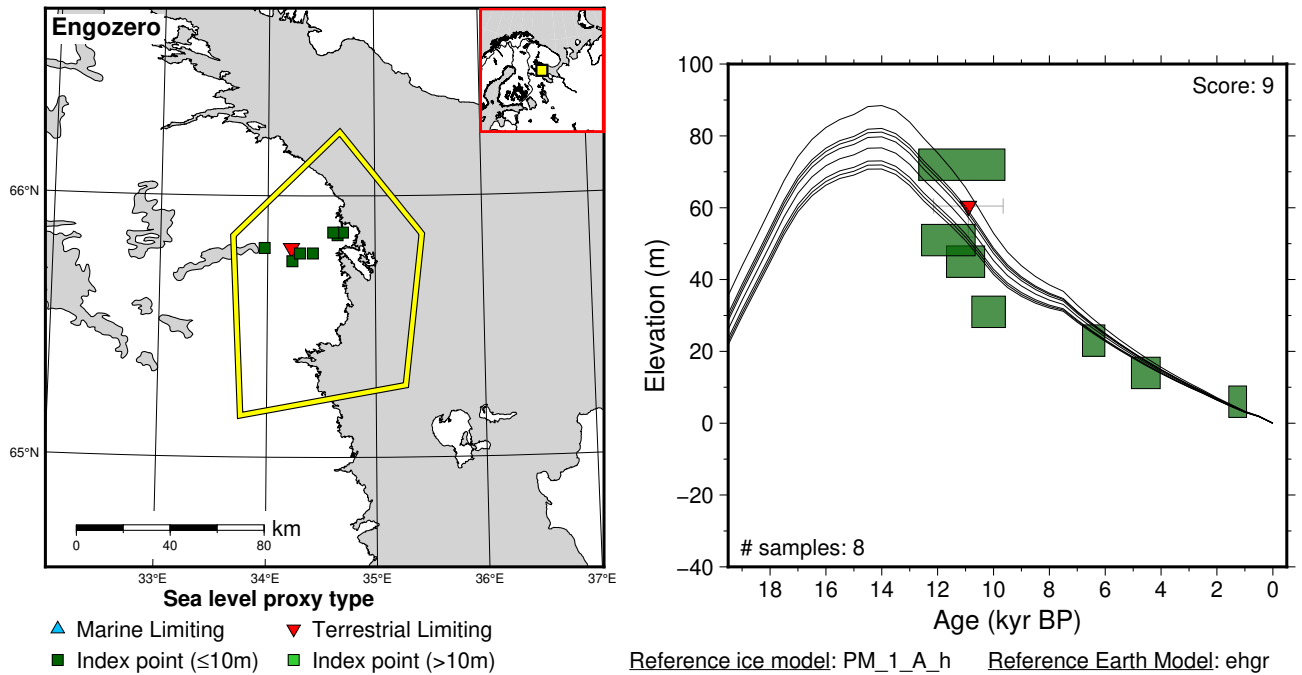


Figure 87: Paleo-sea level and comparison of six models for subregion: White Sea, location: Engozero. References: Baranskaya et al. (2018a); Kolka et al. (2013b).

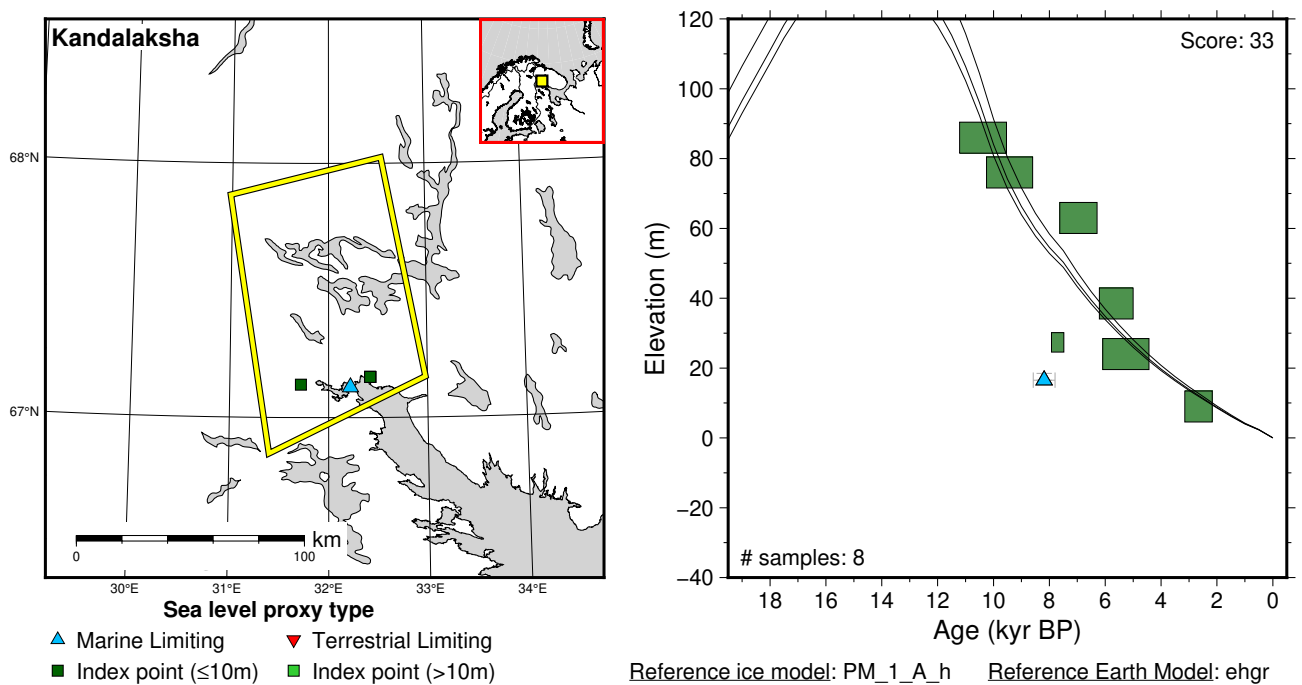


Figure 88: Paleo-sea level and comparison of six models for subregion: White Sea, location: Kandalaksha. References: Arslanov et al. (1974); Baranskaya et al. (2018a); Kolka and Korsakova (2010); Koshechkin (1979).

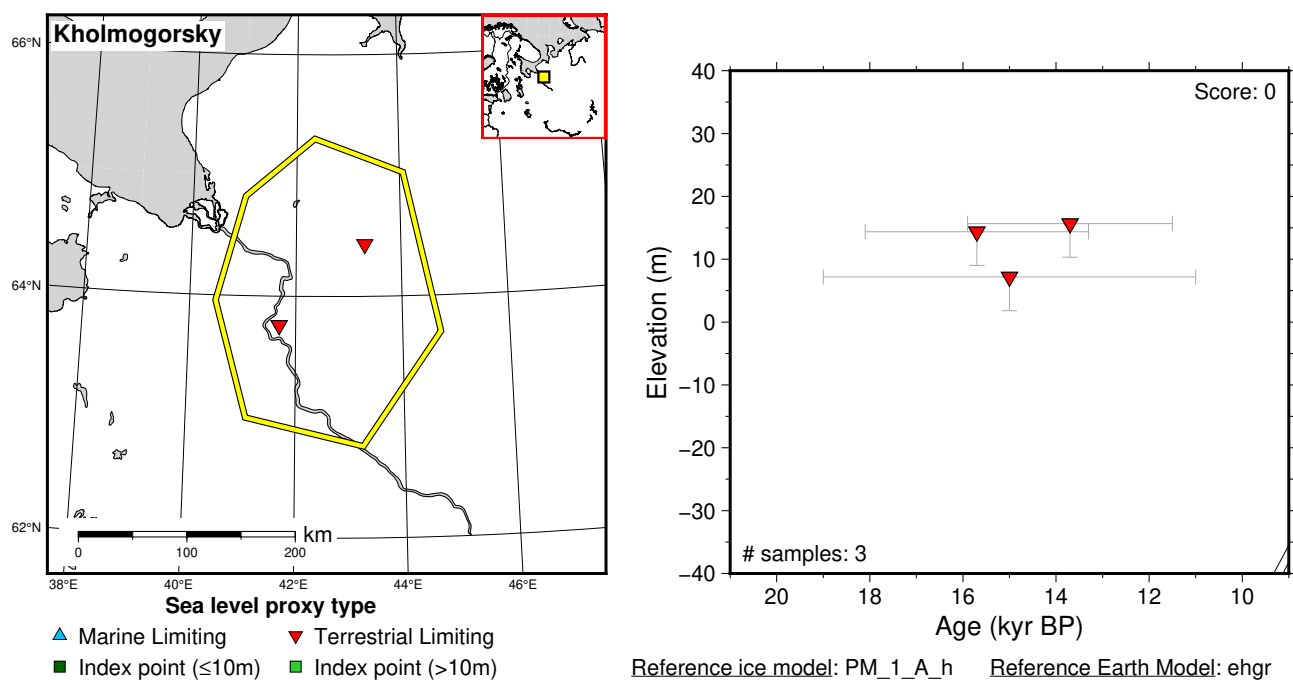


Figure 89: Paleo-sea level and comparison of six models for subregion: White Sea, location: Kholmogorsky. References: Baranskaya et al. (2018a); Larsen et al. (2006).

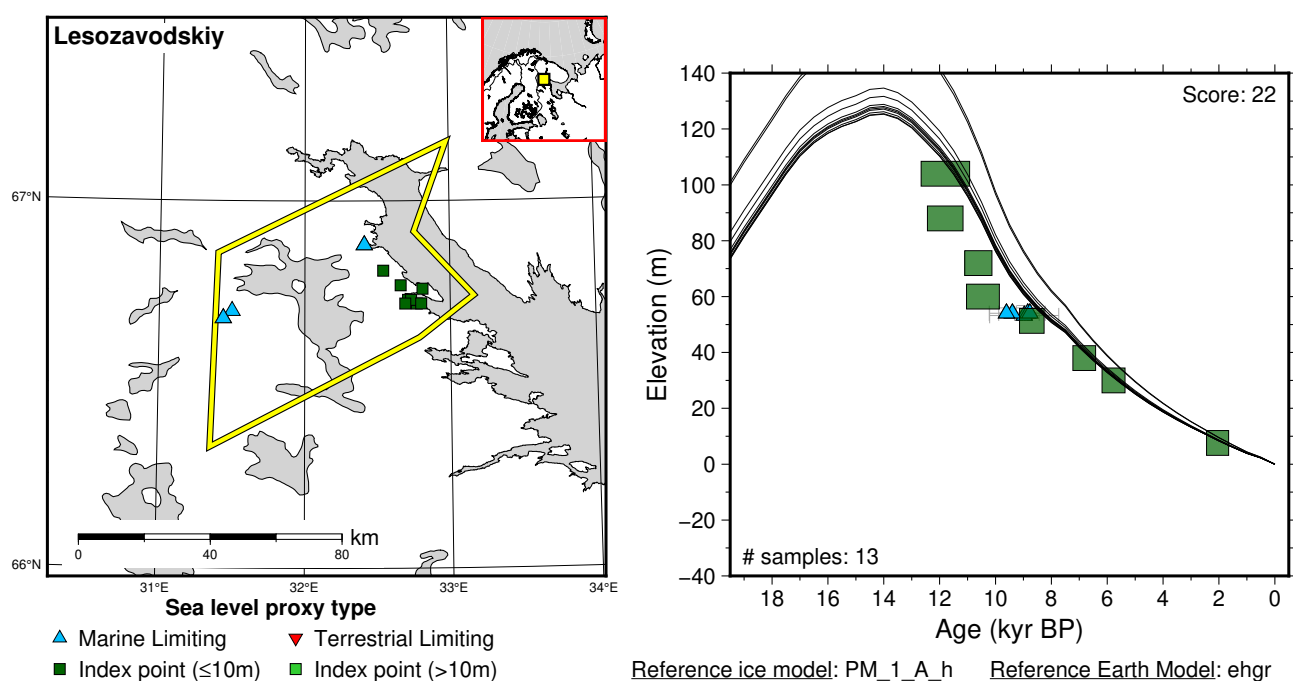


Figure 90: Paleo-sea level and comparison of six models for subregion: White Sea, location: Lesozavodskiy. References: Arslanov et al. (1974); Baranskaya et al. (2018a); Kolka et al. (2005); Koshechkin et al. (1973).

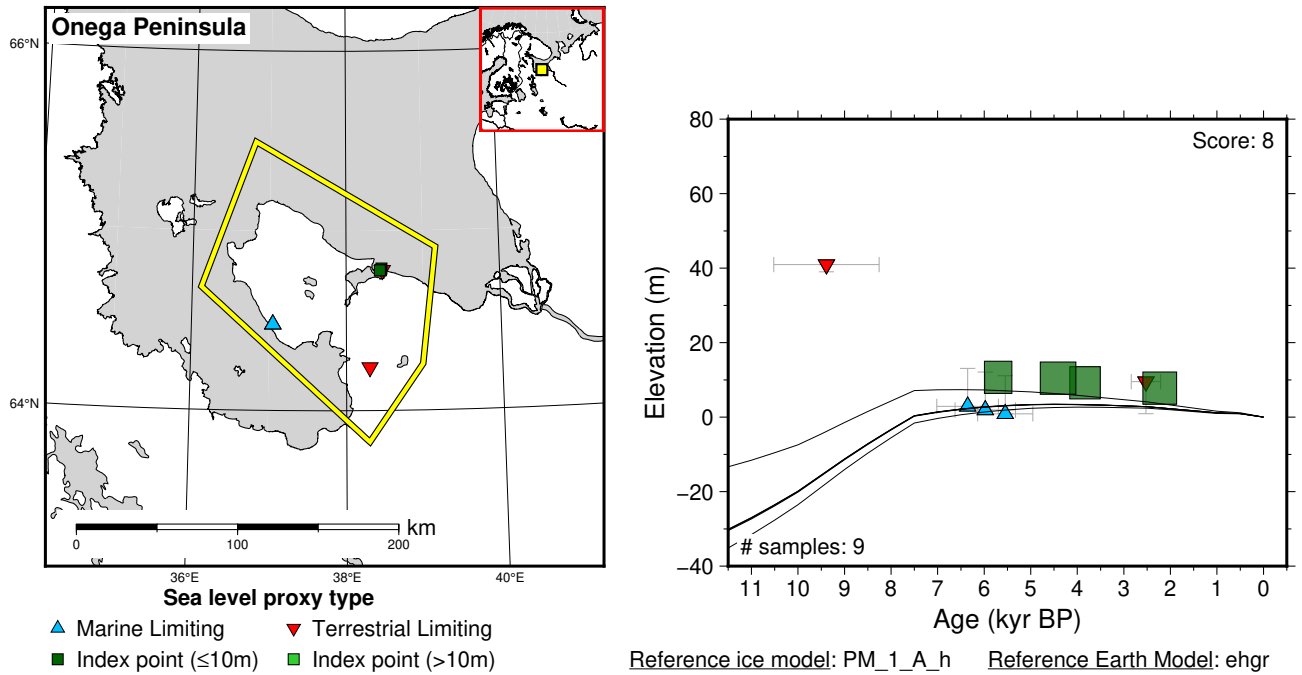


Figure 91: Paleo-sea level and comparison of six models for subregion: White Sea, location: Onega Peninsula. References: Baranskaya et al. (2018a); Boyarskaya et al. (1986); Koshechkin et al. (1973); Repkina et al. (in review).

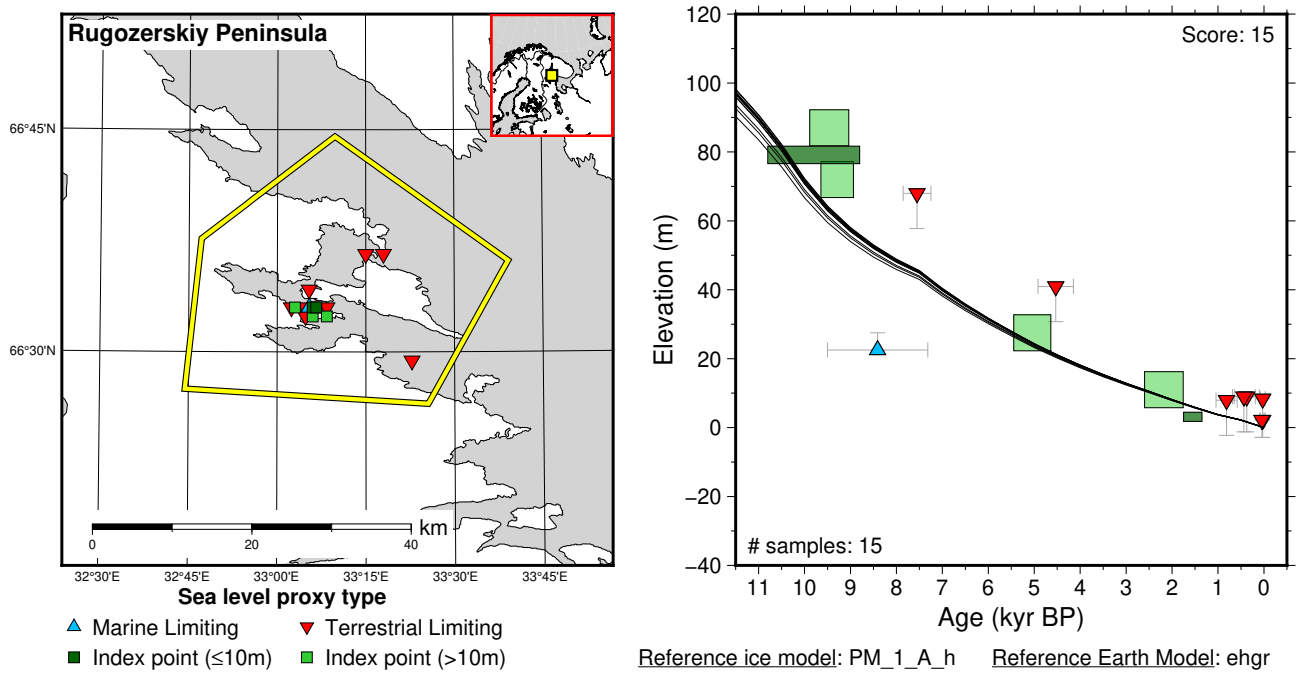


Figure 92: Paleo-sea level and comparison of six models for subregion: White Sea, location: Rugozerskiy Peninsula. References: Baranskaya (2015); Baranskaya et al. (2018a); Repkina and Romanenko (2016); Romanenko and Shilova (2012); Zaretskaya et al. (2013).

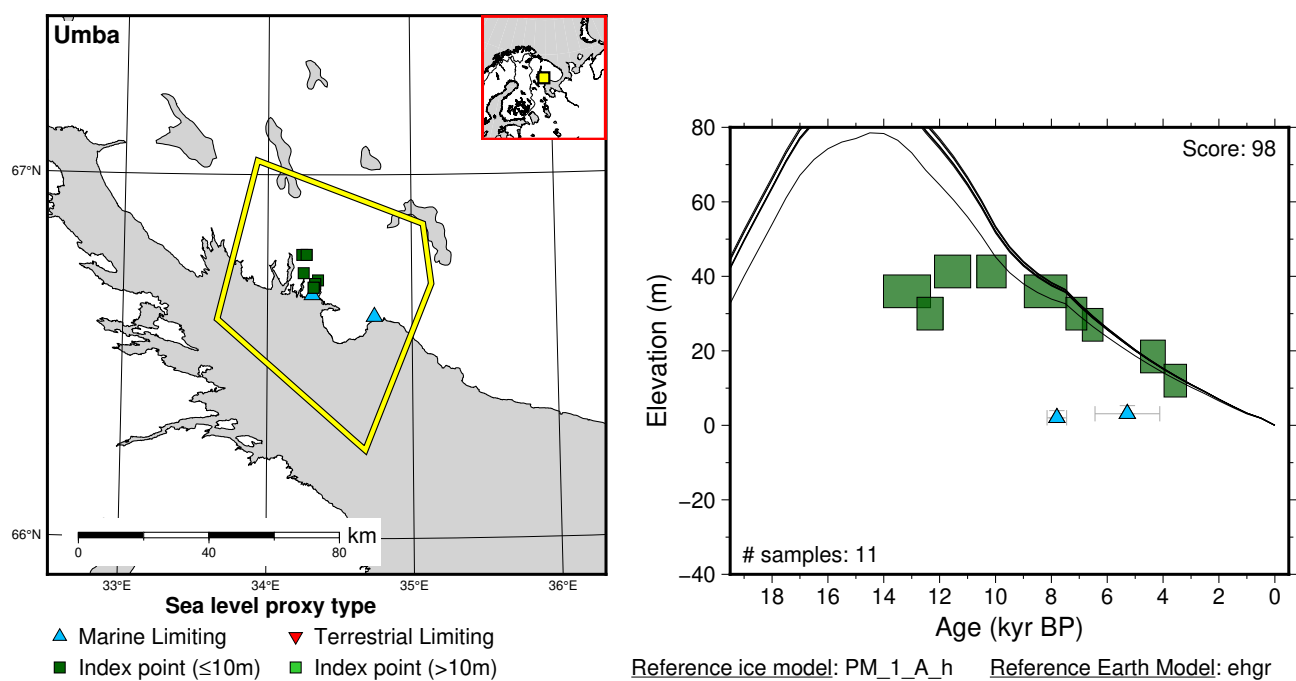


Figure 93: Paleo-sea level and comparison of six models for subregion: White Sea, location: Umba. References: Arslanov et al. (1974); Baranskaya et al. (2018a); Kolka et al. (2013a); Koshechkin (1979).

6.6 Europe

6.6.1 Gulfs Of Riga - Finland

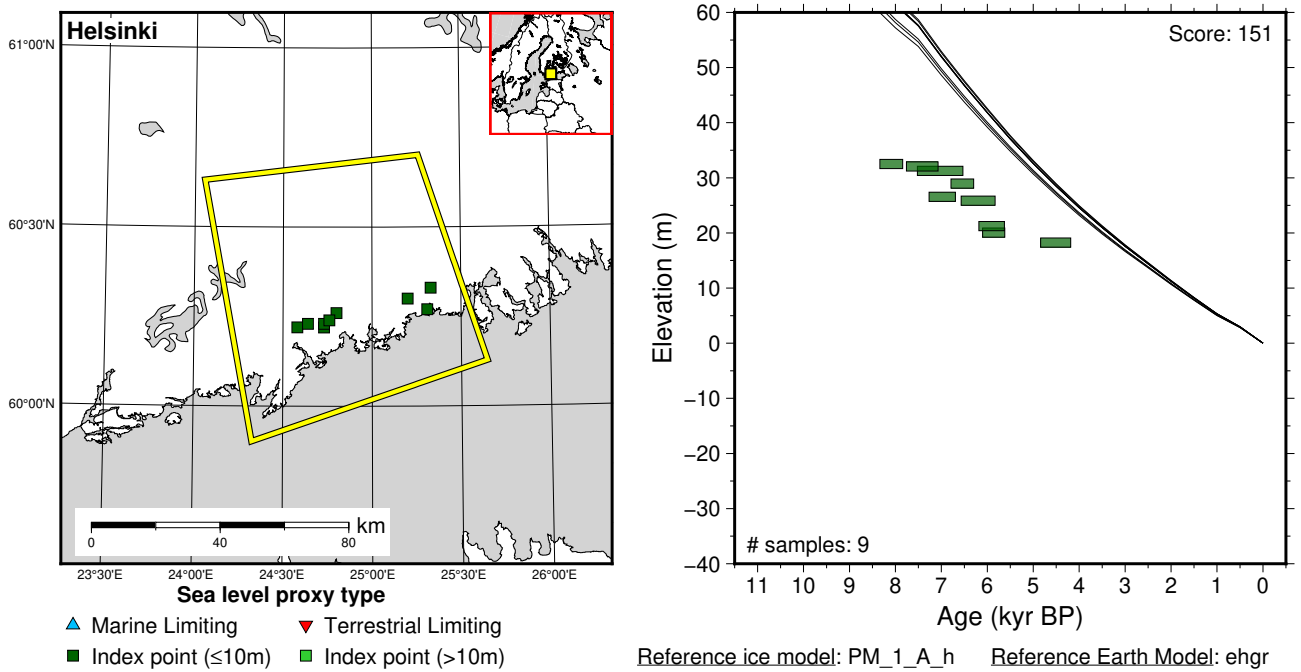


Figure 94: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: Helsinki. References: Alhonen (1972); Alhonen et al. (1978); Hyvärinen (1979, 1982, 1984); Rosentau et al. (2021); Seppä et al. (2000).

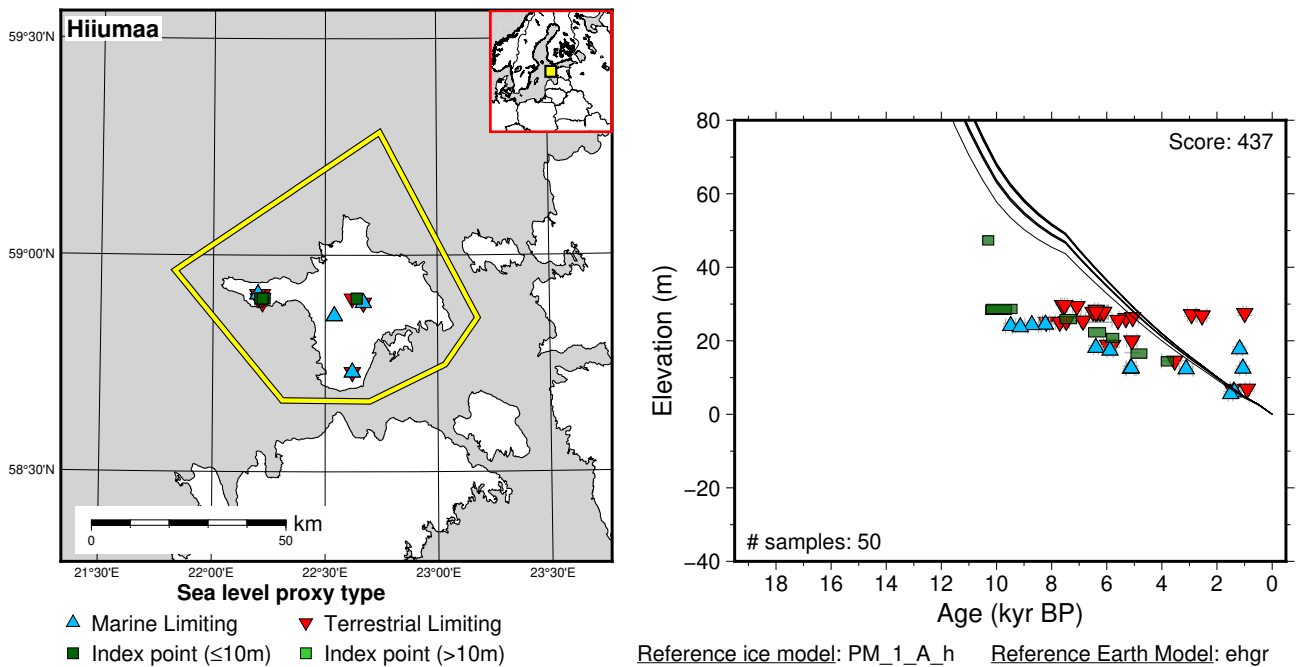


Figure 95: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: Hiiumaa. References: Kriiska (2002); Kriiska and Lõugas (1999); Kriiska et al. (2005); Königsson et al. (1998); Liiva et al. (1966); Rosentau et al. (2020, 2021); Sarv (1981); Vassiljev et al. (2015).

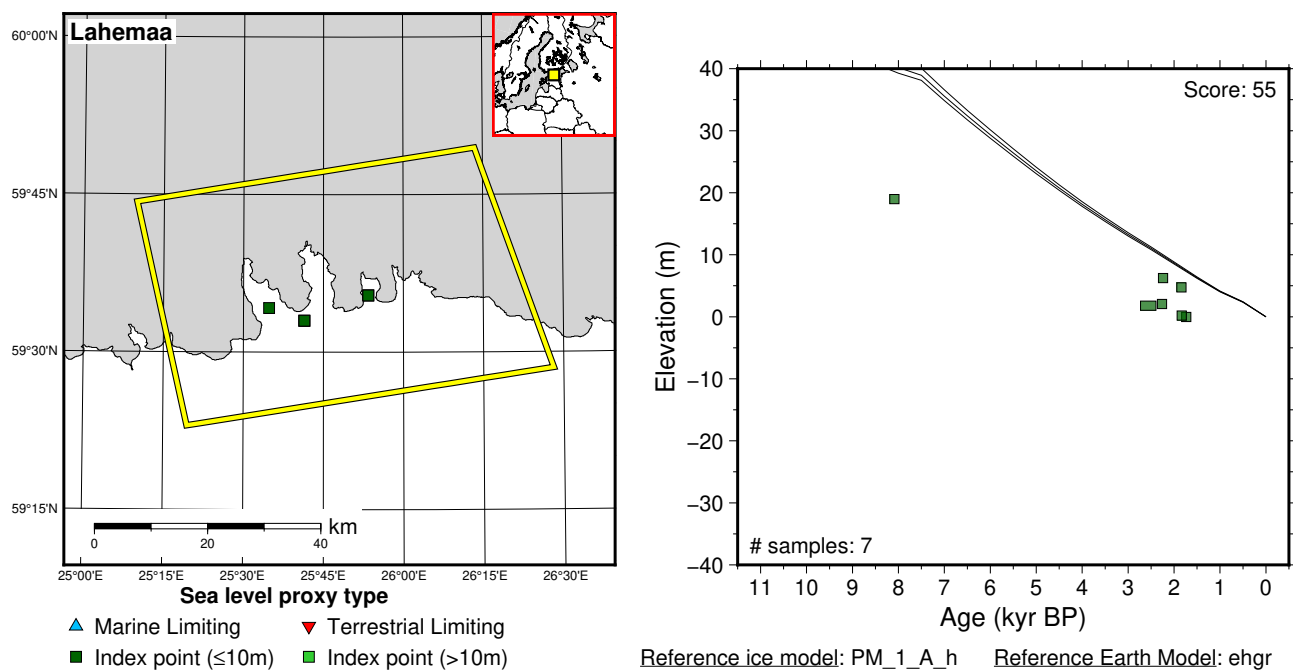


Figure 96: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: Lahemaa. References: Grudzinska et al. (2013); Muru et al. (2017); Rosentau et al. (2021); Saarse et al. (2009).

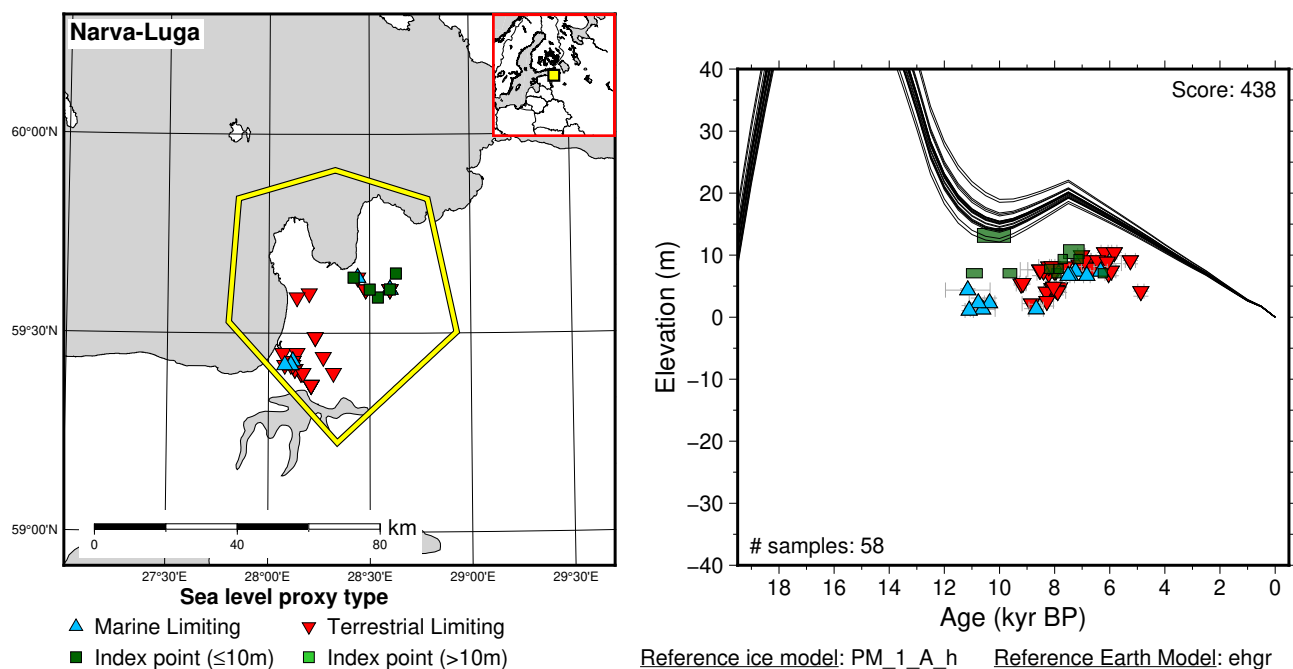


Figure 97: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: Narva-Luga. References: Jaanits and Liiva (1973); Kessel (1963); Kriiska (1995, 1996); Lepland et al. (1996); Rosentau et al. (2013, 2021); Saarse et al. (2003); Sandgren et al. (2004).

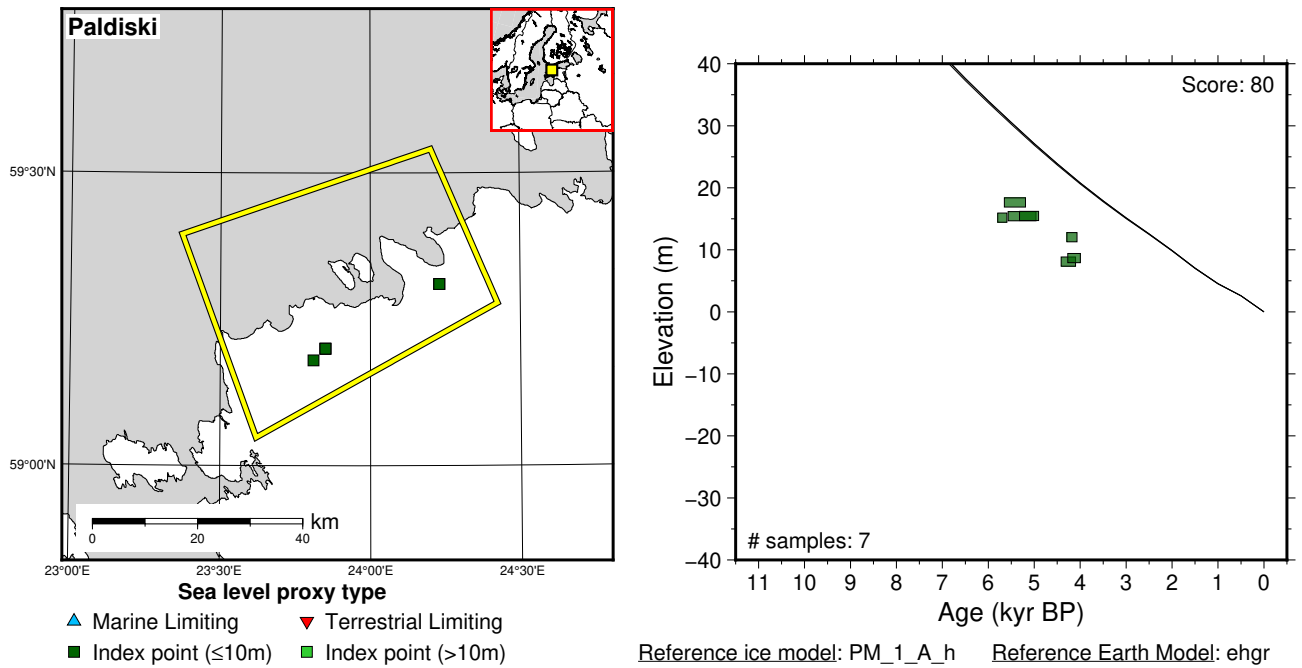


Figure 98: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: Paldiski. References: Grudzinska et al. (2013); Muru et al. (2017); Rosentau et al. (2021).

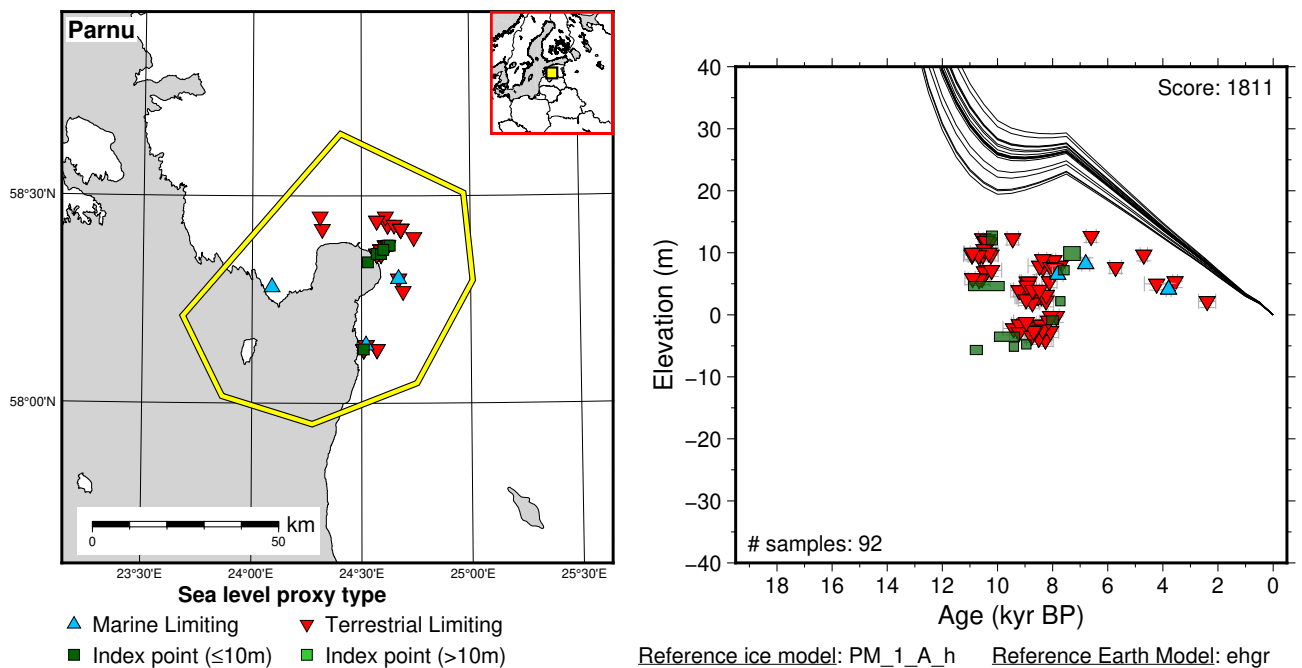


Figure 99: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: Parnu. References: H. (1975); Habicht et al. (2017); Haila and Raukas (1992); Hyvärinen et al. (1992); Ilves et al. (1974); Jaanits and Jaanits (1978); Jonuks (2013, 2016); Kessel and Punning (1969a,b, 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).

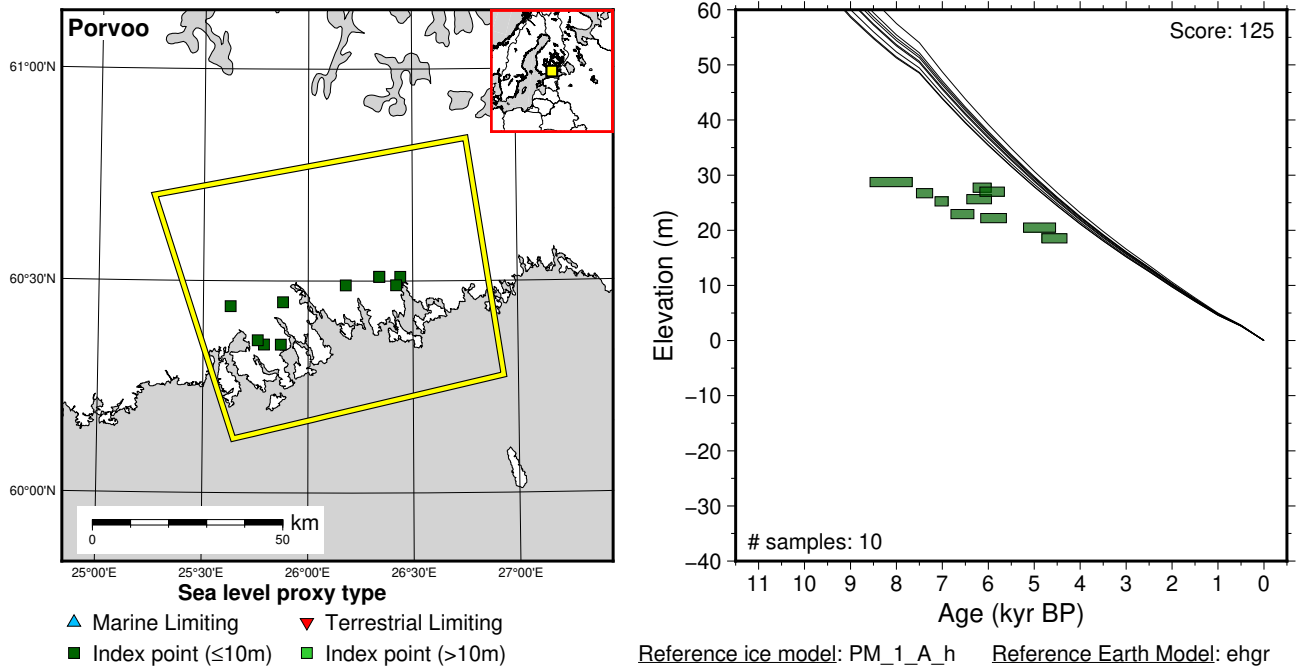


Figure 100: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: Porvoo. References: Donner and Eronen (1981); Eronen (1974); Haila et al. (1991); Jungner and Sonninen (1983); Miettinen et al. (1999); Rosentau et al. (2021).

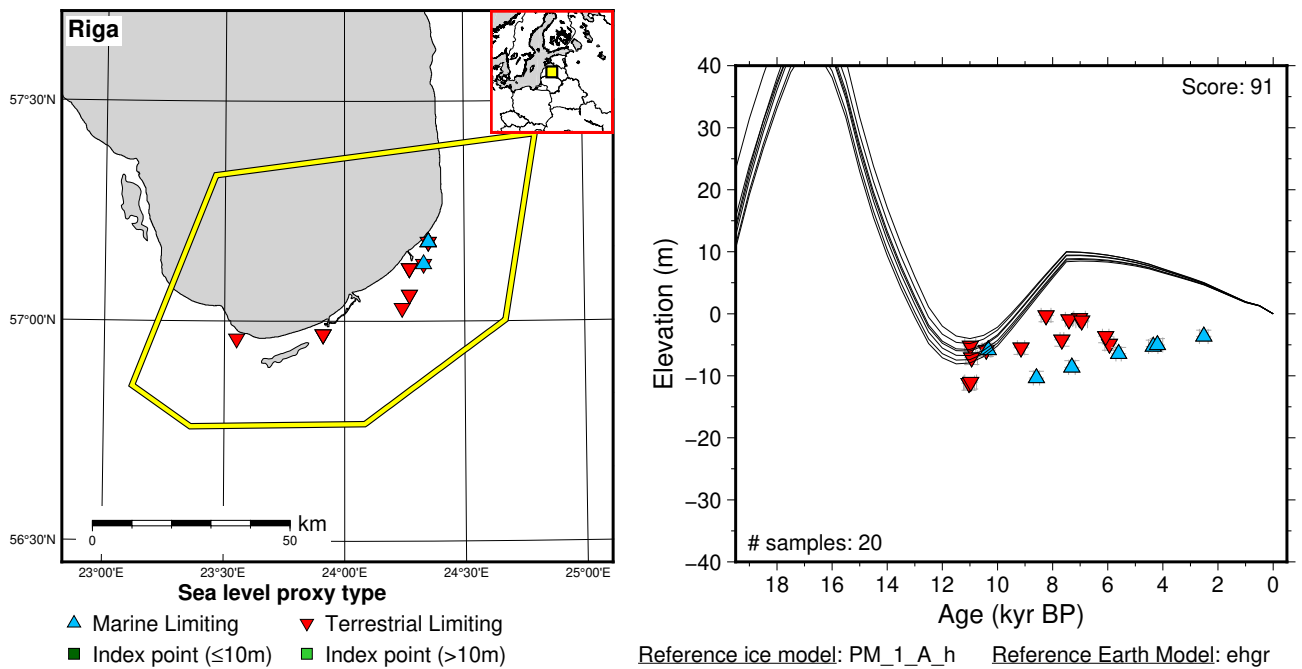


Figure 101: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: Riga. References: Eberhards (2008); Grudzinska (2015); Grudzinska et al. (2017); Rosentau et al. (2021).

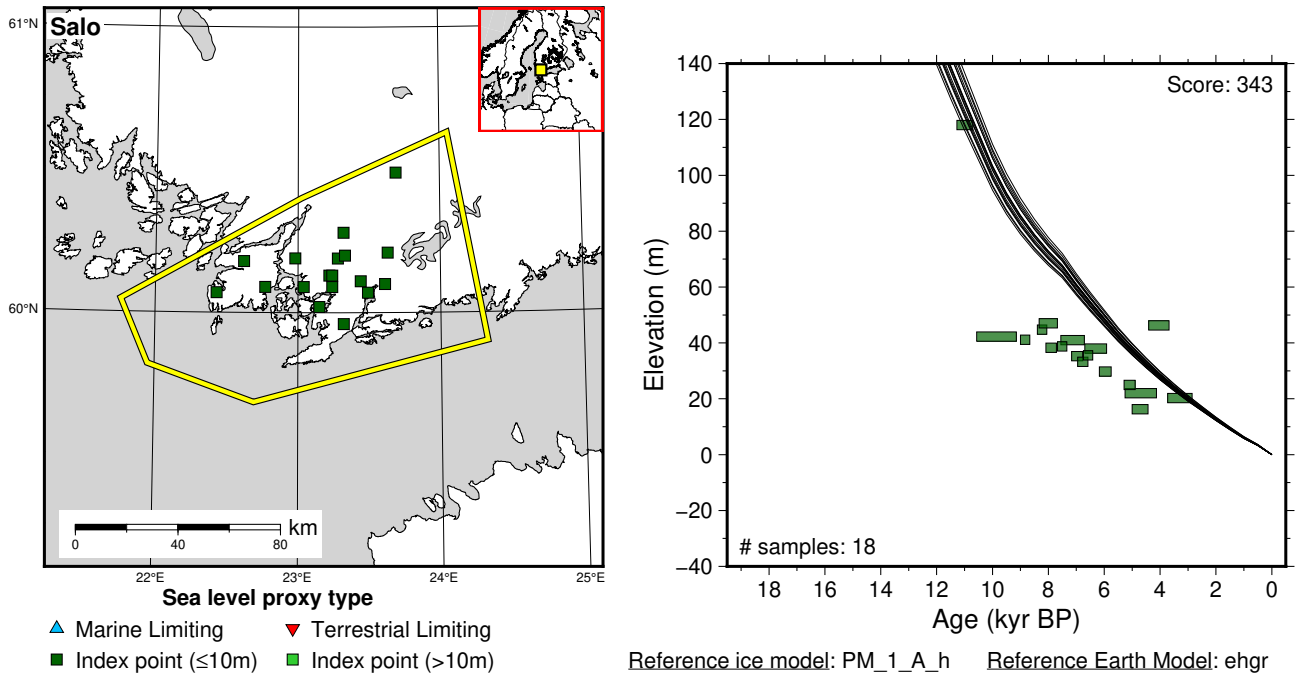


Figure 102: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: Salo. References: Eronen (1974); Eronen et al. (1993, 2001); Glückert (1976, 1978b); Leino (1973); Ristaniemi and Glückert (1988); Rosentau et al. (2021); Tolonen and Tolonen (1988).

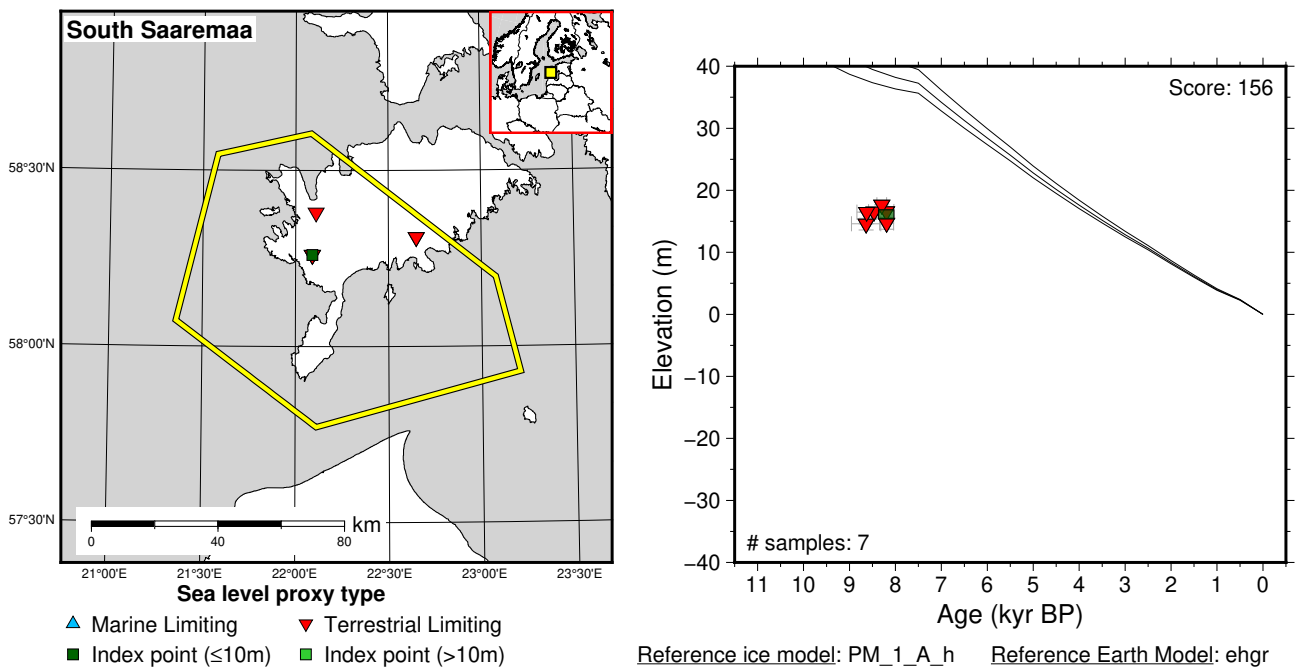


Figure 103: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: South Saaremaa. References: Reintam et al. (2008); Rosentau et al. (2021); Saarse et al. (2009).

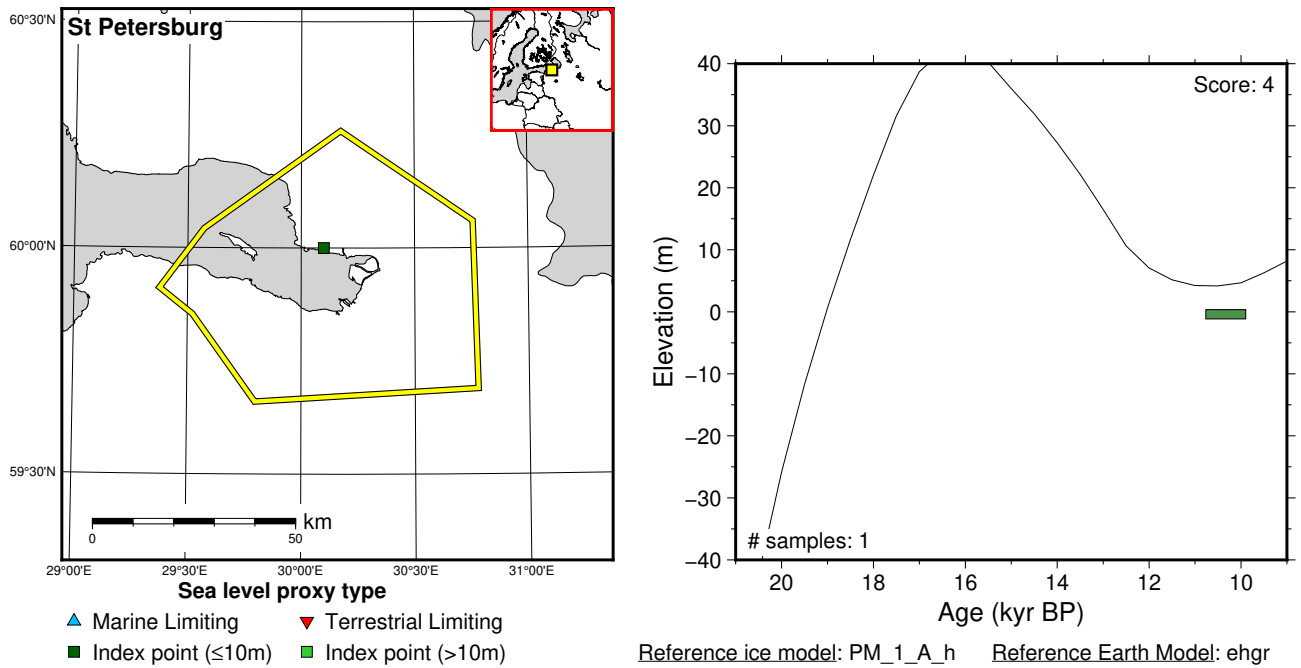


Figure 104: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: St Petersburg. References: Morozov (2014); Rosentau et al. (2021).

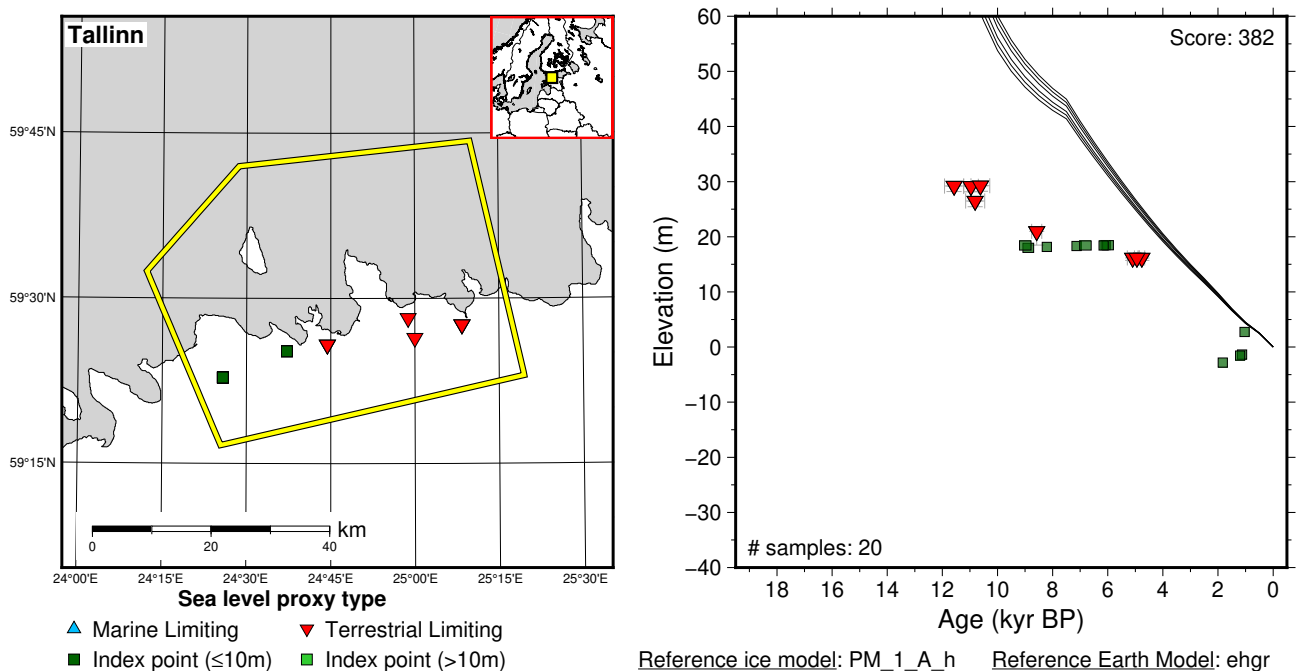
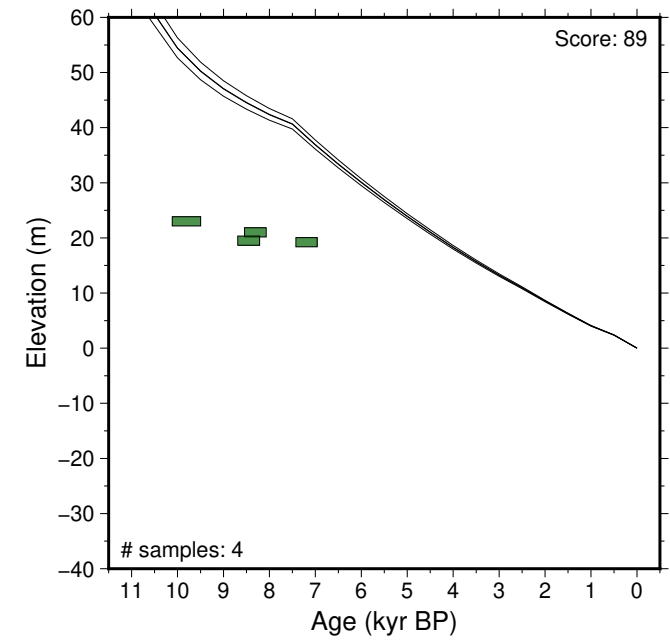
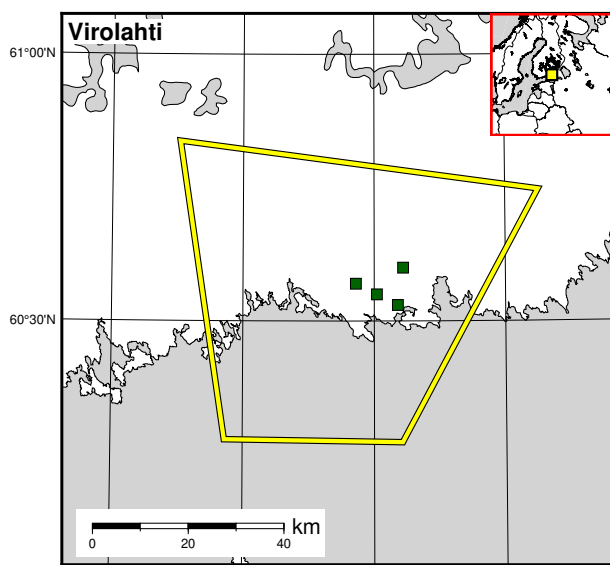
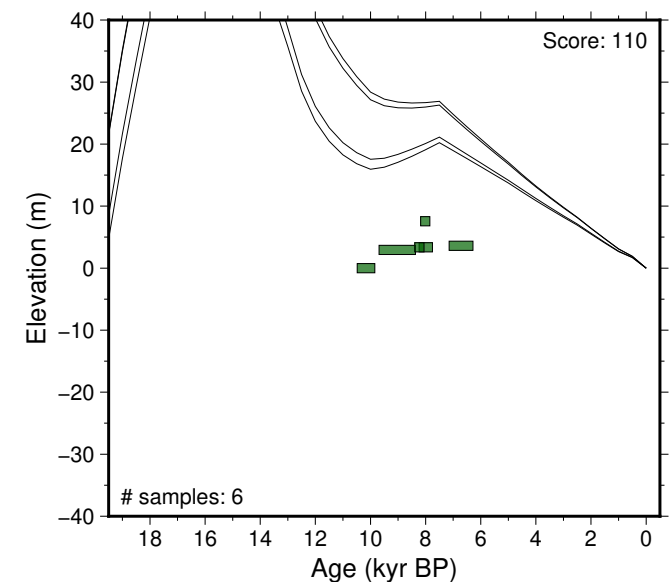
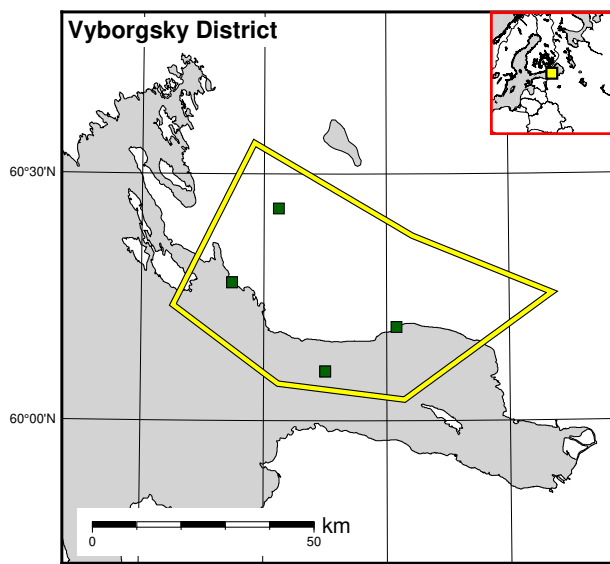


Figure 105: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: Tallinn. References: Grudzinska et al. (2014); Heinsalu (2000); Lõugas and Tomek (2013); Muru et al. (2017); Rosentau et al. (2021); Saarse et al. (2006, 2009); Veski (1998).



Reference ice model: PM_1_A_h Reference Earth Model: ehgr

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).



Reference ice model: PM_1_A_h Reference Earth Model: ehgr

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).

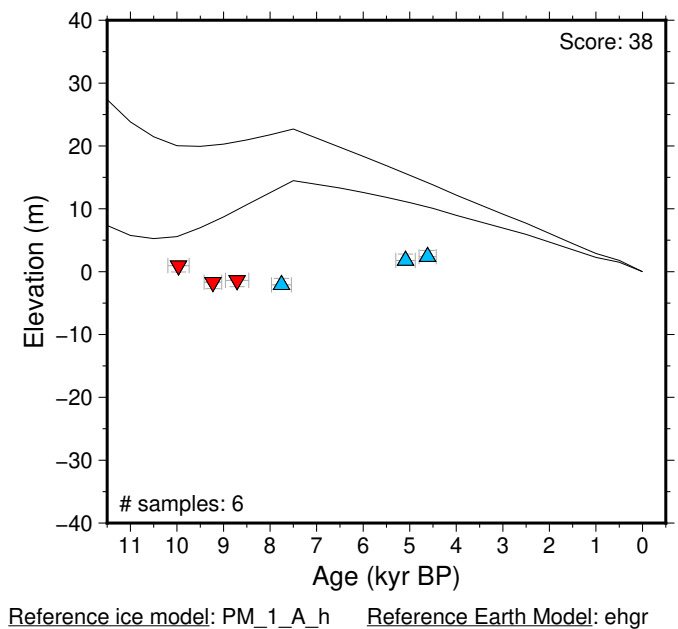
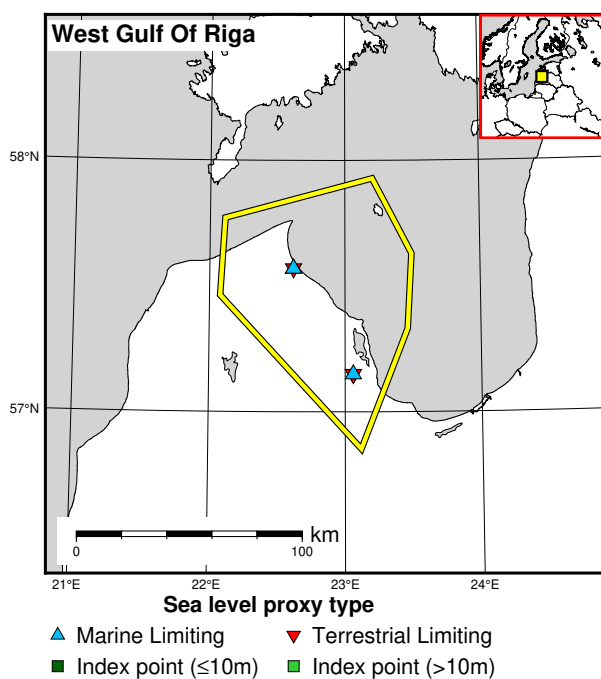


Figure 108: Paleo-sea level and comparison of six models for subregion: Gulfs Of Riga - Finland, location: West Gulf Of Riga. References: Eberhards (2006); Grudzinska (2011); Pujäte (2015); Punning et al. (1973); Rosentau et al. (2021); Veinbergs (1996).

6.6.2 North Baltic

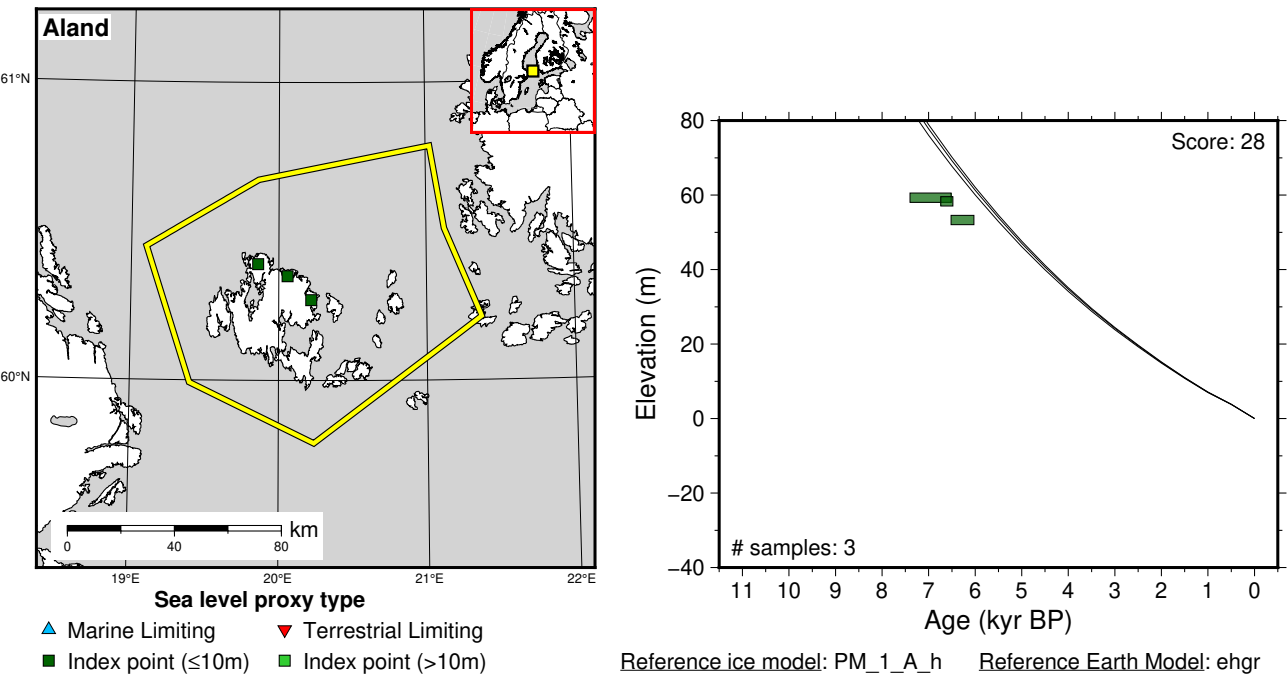


Figure 109: Paleo-sea level and comparison of six models for subregion: North Baltic, location: Åland. References: Glückert (1978a); Rosentau et al. (2021).

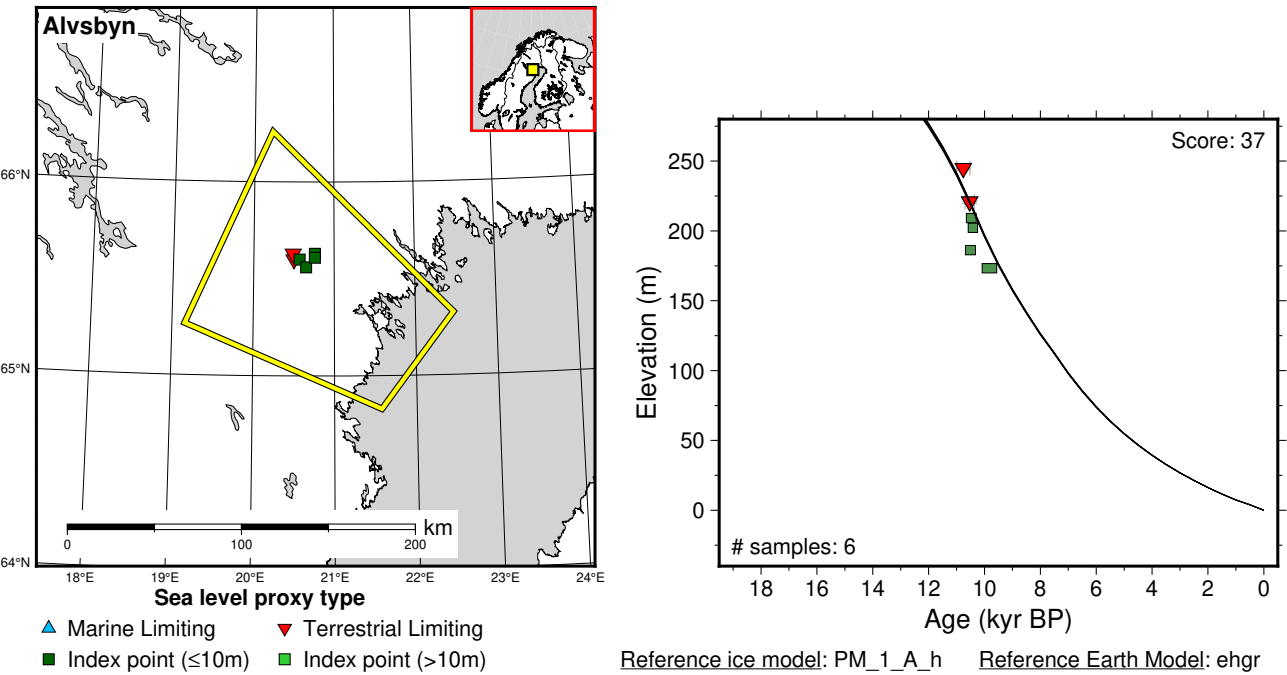
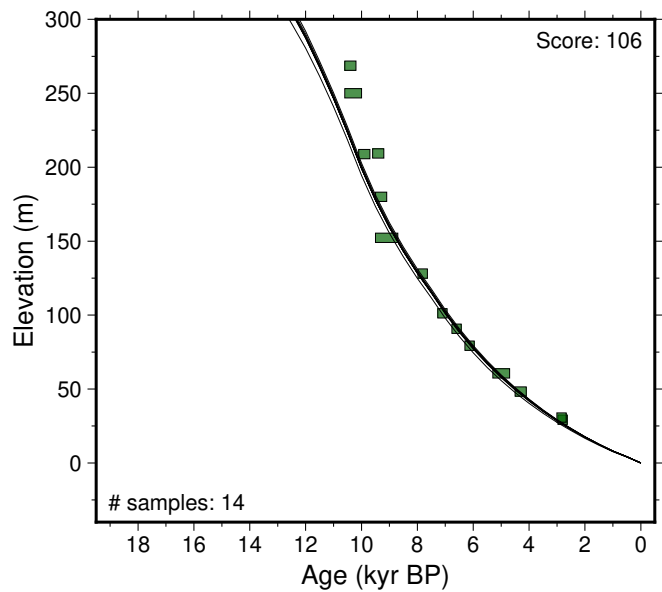
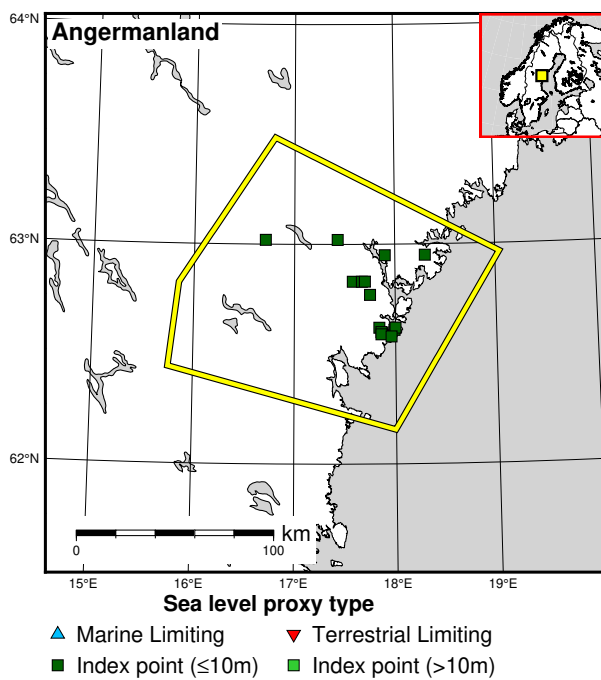
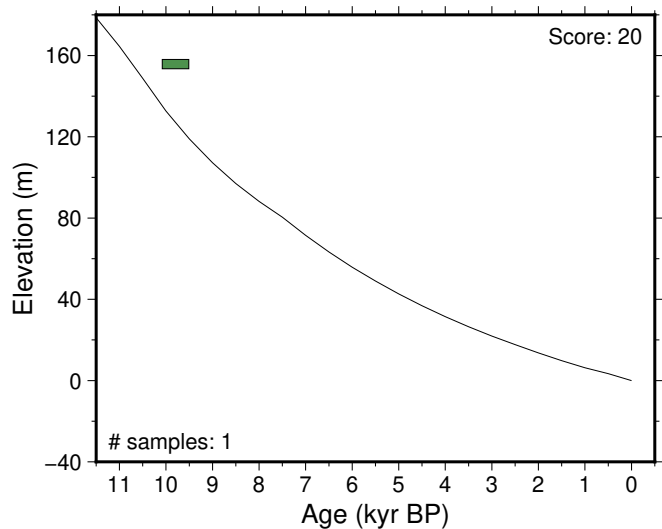
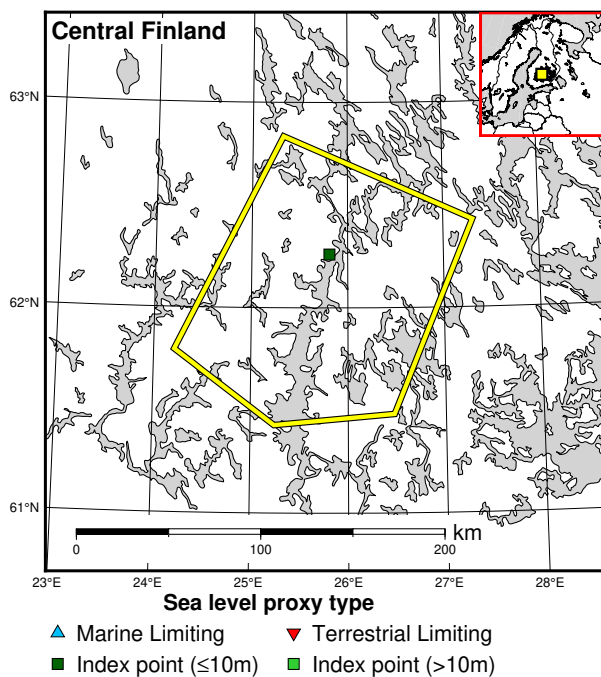


Figure 110: Paleo-sea level and comparison of six models for subregion: North Baltic, location: Ålvsbyn. References: Lindén et al. (2006); Rosentau et al. (2021).



Reference ice model: PM_1_A_h Reference Earth Model: ehgr

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).



Reference ice model: PM_1_A_h Reference Earth Model: ehgr

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

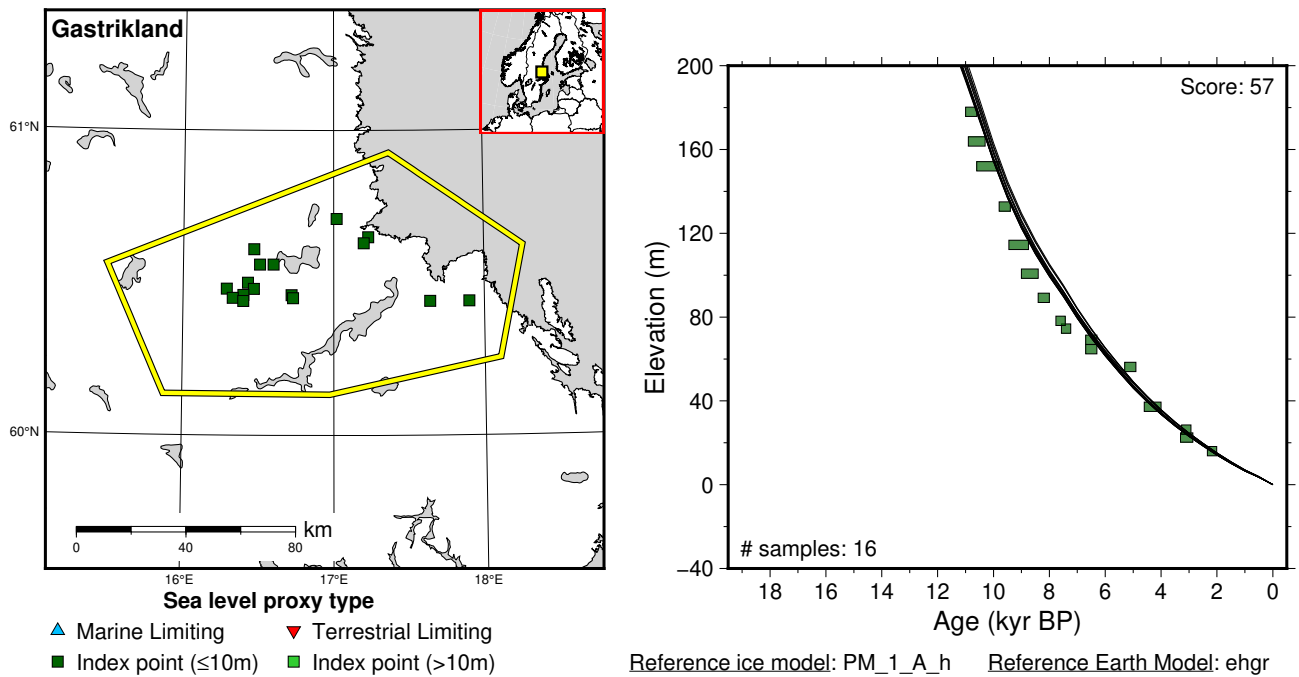


Figure 113: Paleo-sea level and comparison of six models for subregion: North Baltic, location: Gasterikland. References: Berglund (2005, 2010, 2012); Hedenström and Risberg (2003); Rosentau et al. (2021).

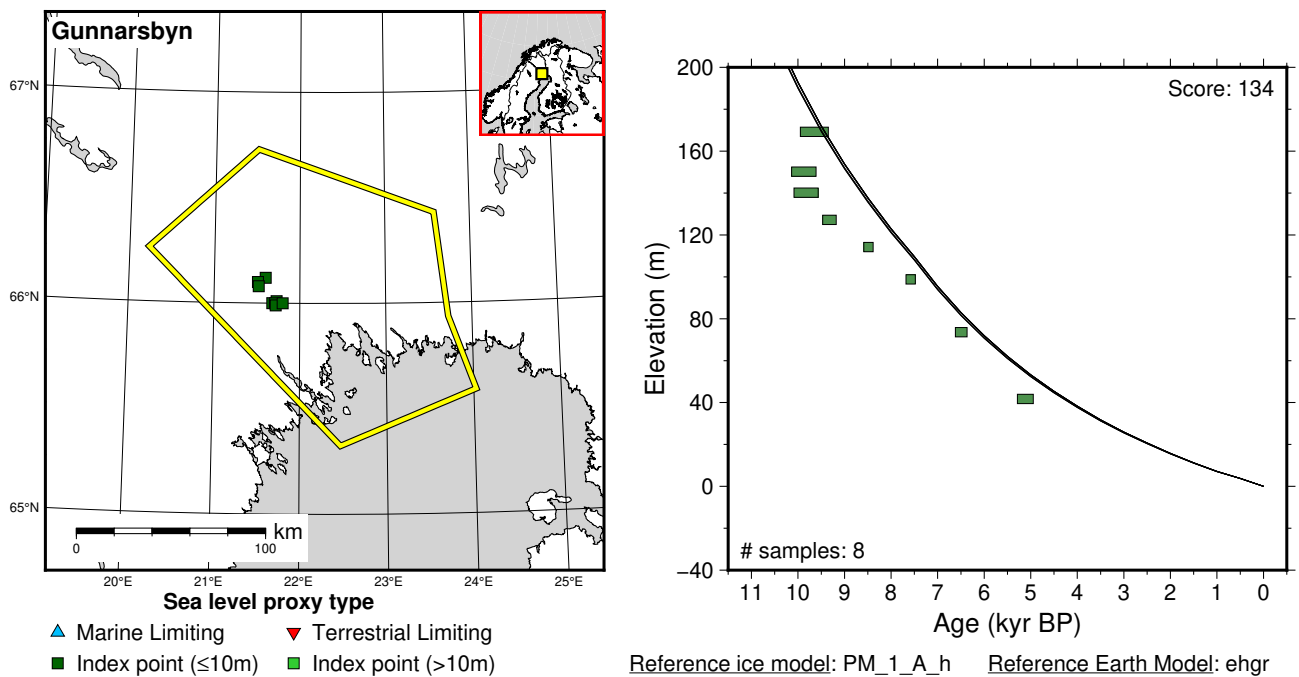


Figure 114: Paleo-sea level and comparison of six models for subregion: North Baltic, location: Gunnarsbyn. References: Lindén et al. (2006); Rosentau et al. (2021).

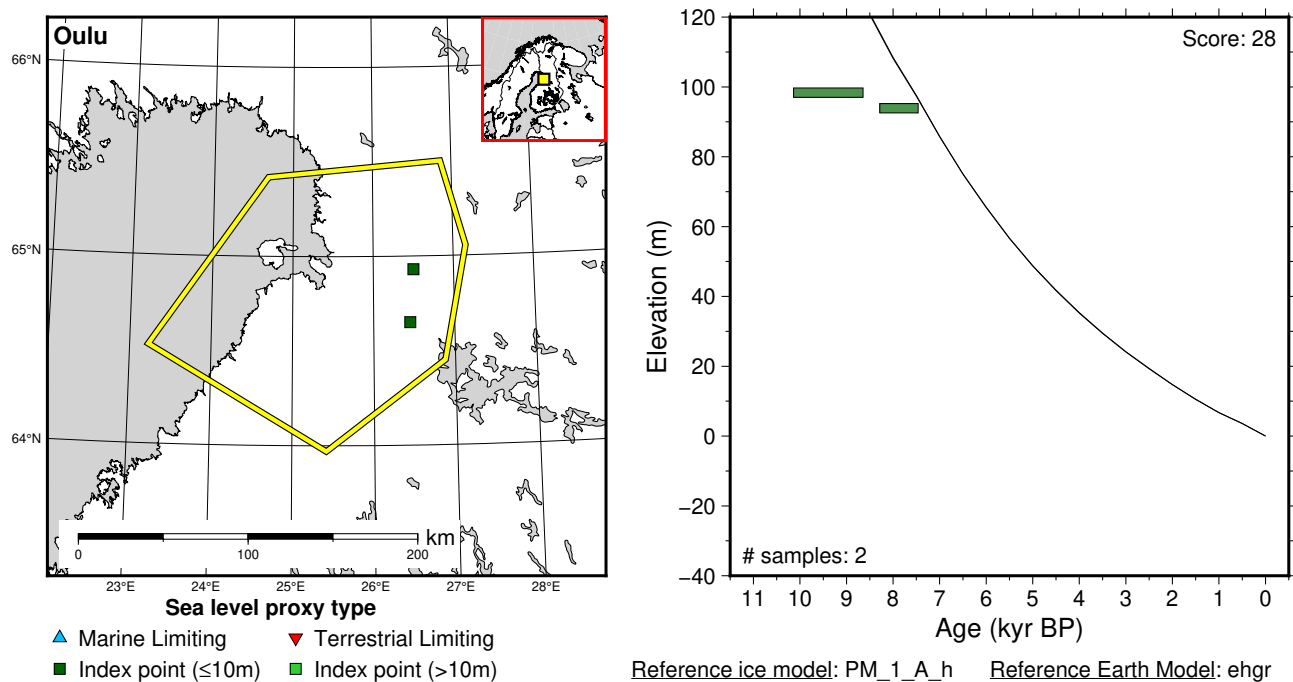


Figure 115: Paleo-sea level and comparison of six models for subregion: North Baltic, location: Oulu. References: Eronen (1974); Rosentau et al. (2021).

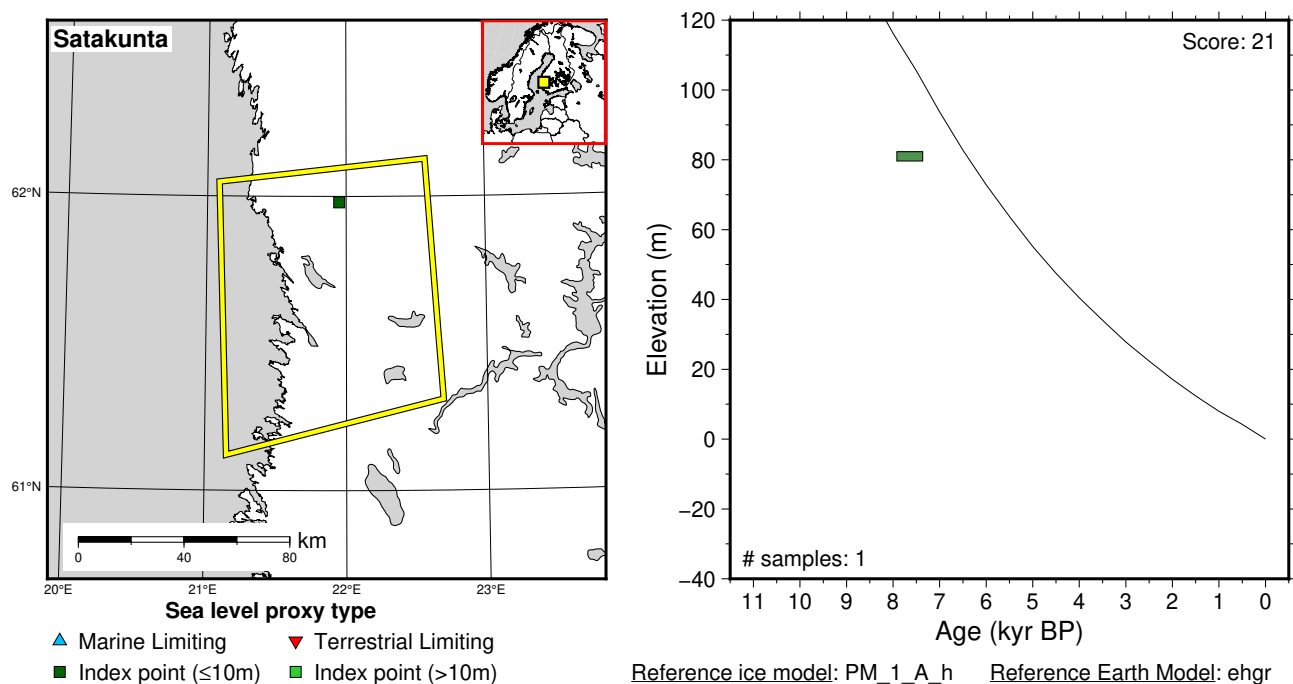


Figure 116: Paleo-sea level and comparison of six models for subregion: North Baltic, location: Satakunta. References: Rosentau et al. (2021); Salomaa (1982).

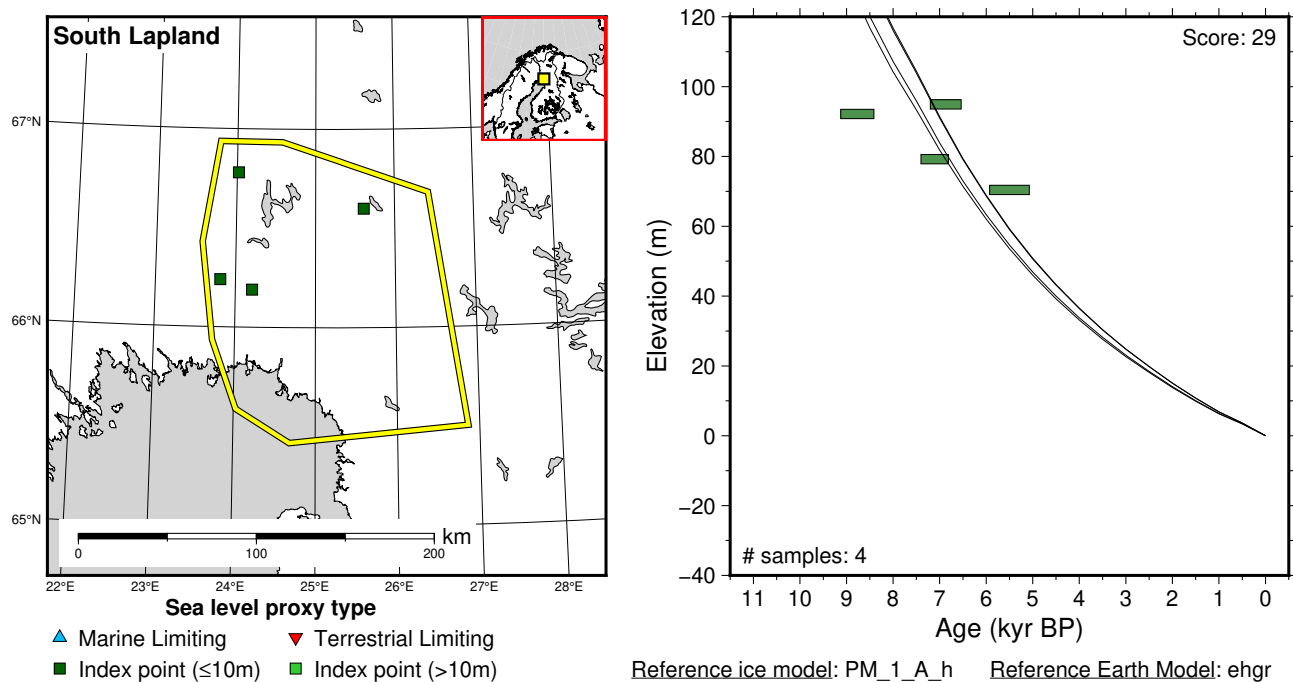


Figure 117: Paleo-sea level and comparison of six models for subregion: North Baltic, location: South Lapland. References: Eronen (1974); Rosentau et al. (2021); Saarnisto (1981).

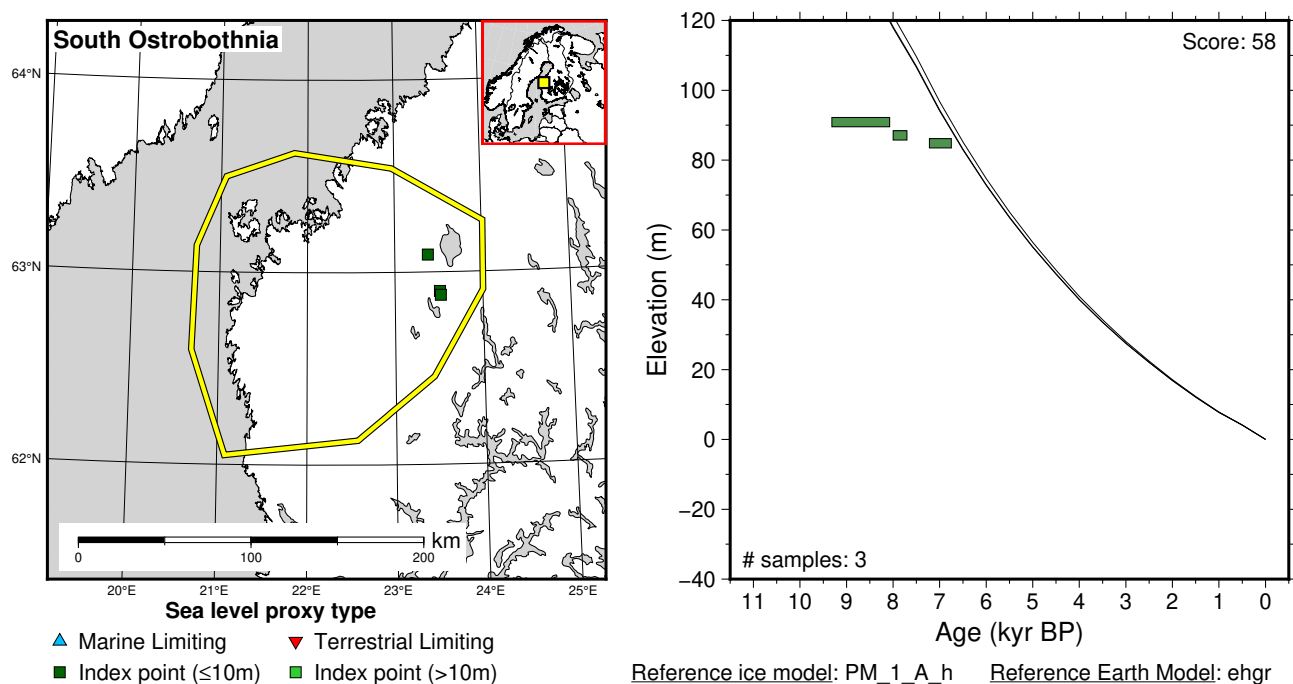


Figure 118: Paleo-sea level and comparison of six models for subregion: North Baltic, location: South Ostrobothnia. References: Eronen (1974); Glückert et al. (1993); Rosentau et al. (2021).

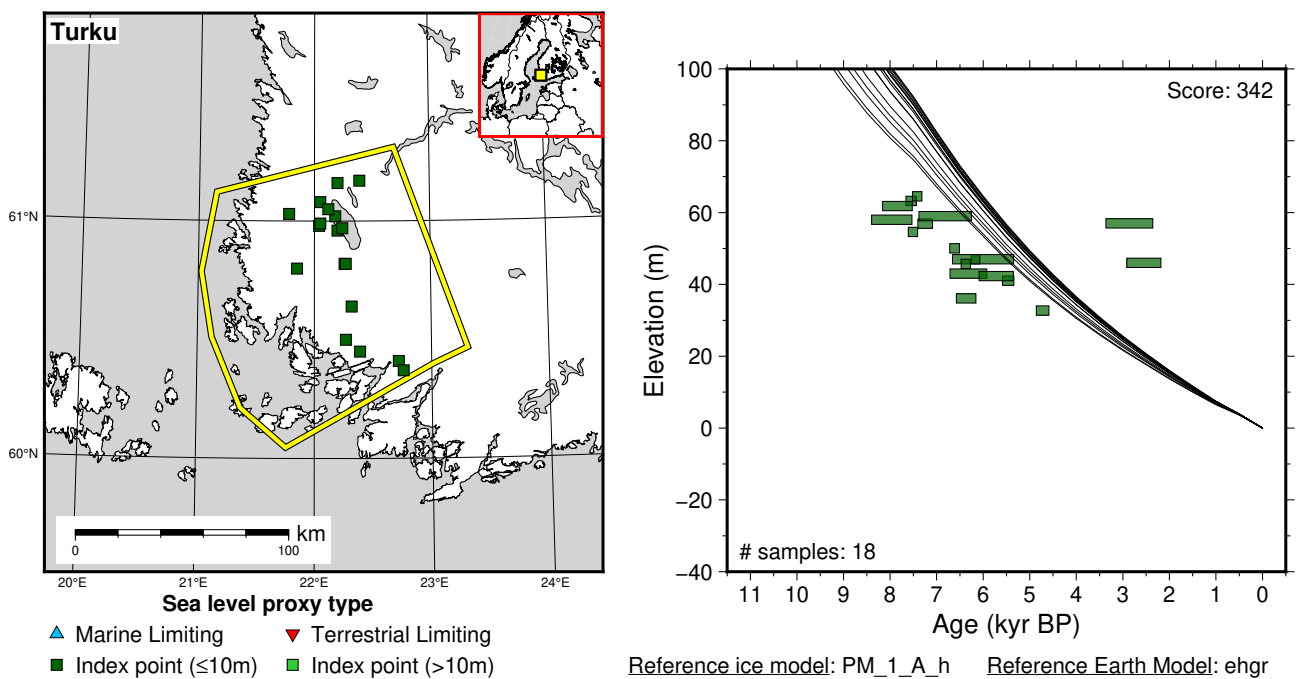


Figure 119: Paleo-sea level and comparison of six models for subregion: North Baltic, location: Turku. References: Eronen (1974); Eronen et al. (1982, 1995, 2001); Glückert (1976); Glückert et al. (1992); Rosentau et al. (2021).

6.6.3 North Sea

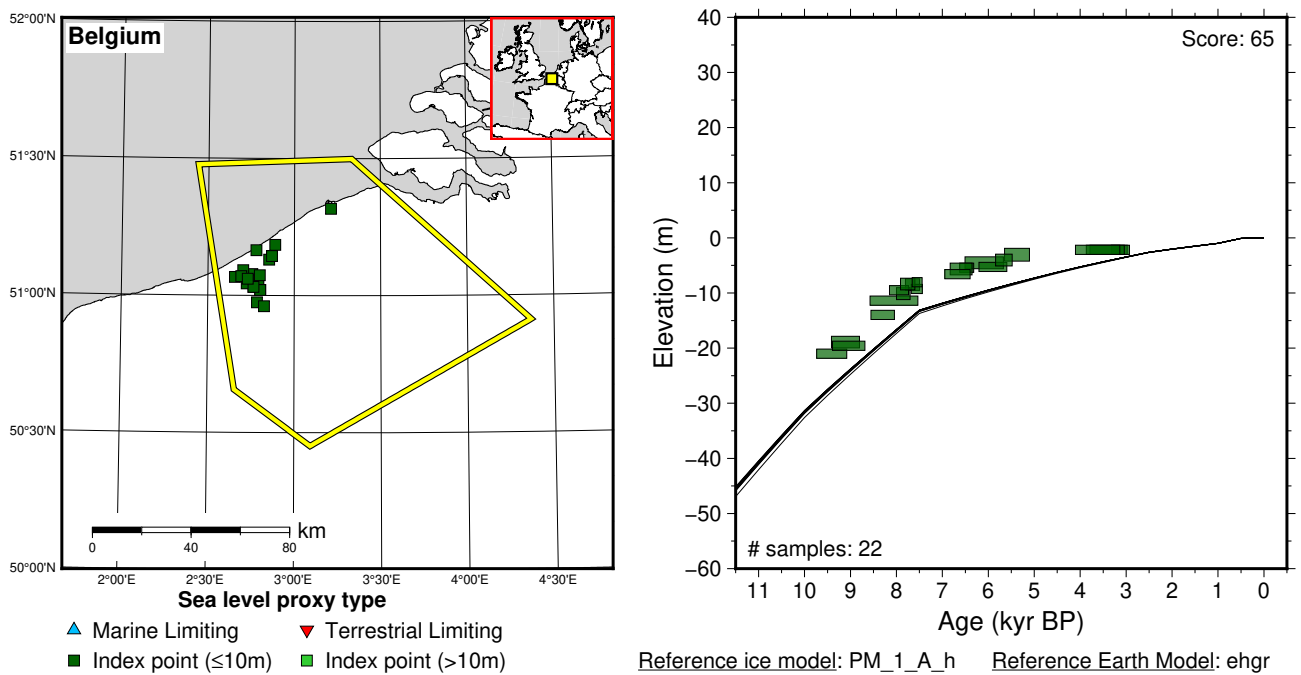


Figure 120: Paleo-sea level and comparison of six models for subregion: North Sea, location: Belgium. References: Denys and Baeteman (1995); Vink et al. (2007).

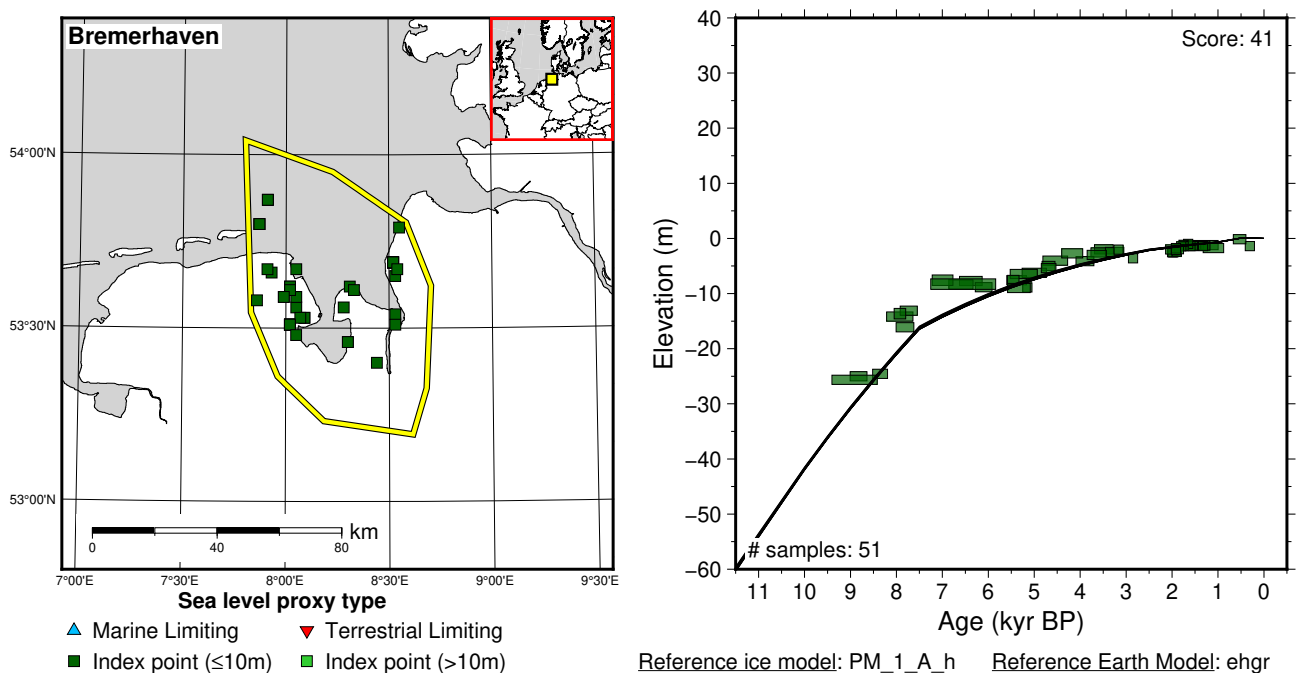


Figure 121: Paleo-sea level and comparison of six models for subregion: North Sea, location: Bremerhaven. References: Behre et al. (1975); Behre (2003, 2007); Behre and Kučan (1999); Brandt (1980, 1991); Ey (1995); Haarnagel (1979); Hanisch (1980); Körber-Grohne (1967); Ludwig et al. (1981); Preuss (1979);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

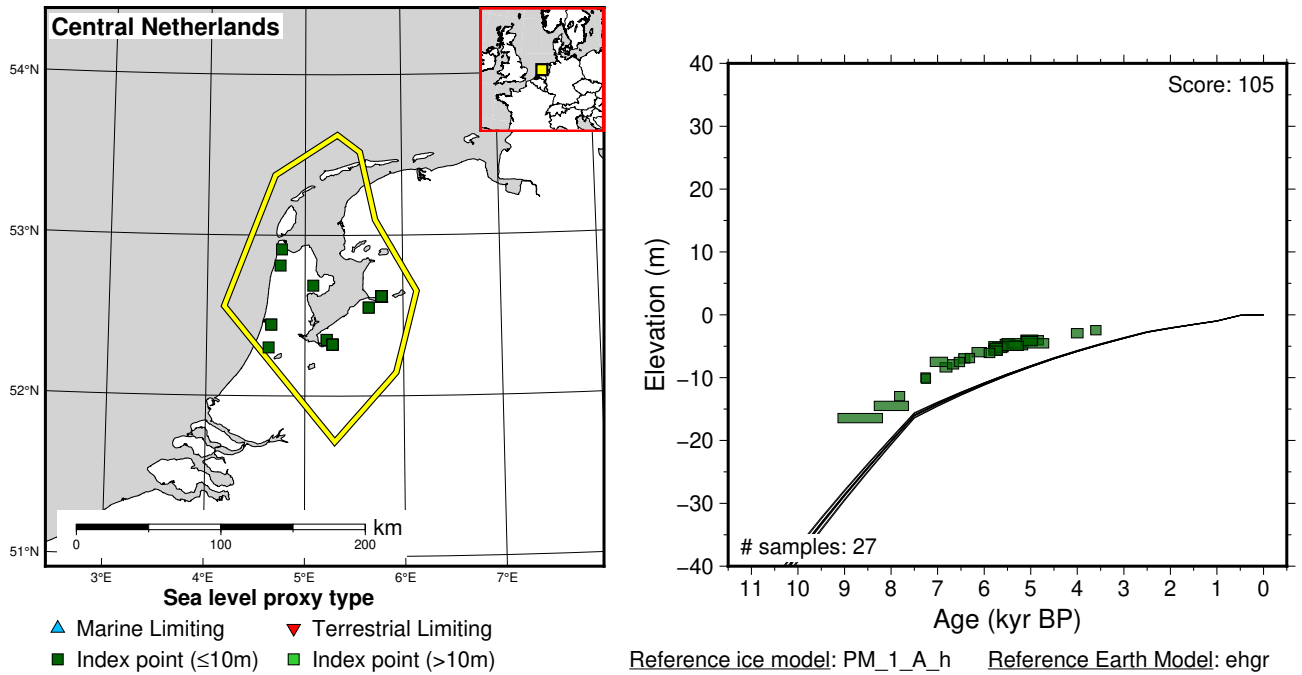


Figure 122: Paleo-sea level and comparison of six models for subregion: North Sea, location: Central Netherlands. References: Bennema (1954); Jelgersma (1961); Louwe Kooijmans (1976); Makaske et al. (2003); Roeleveld and Gotjé (1993); van de Plassche (1982); van de Plassche et al. (2005); Vink et al.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

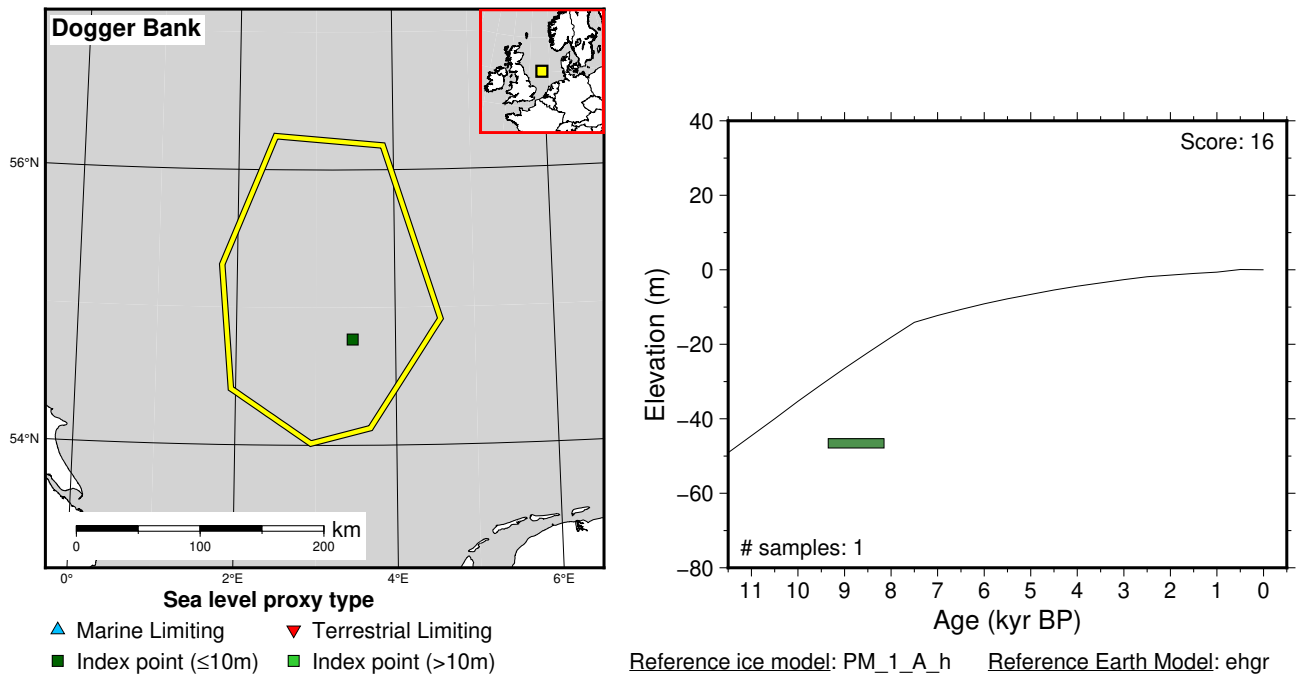


Figure 123: Paleo-sea level and comparison of six models for subregion: North Sea, location: Dogger Bank. References: Behre (2003, 2007); Behre and Menke (1969); Vink et al. (2007).

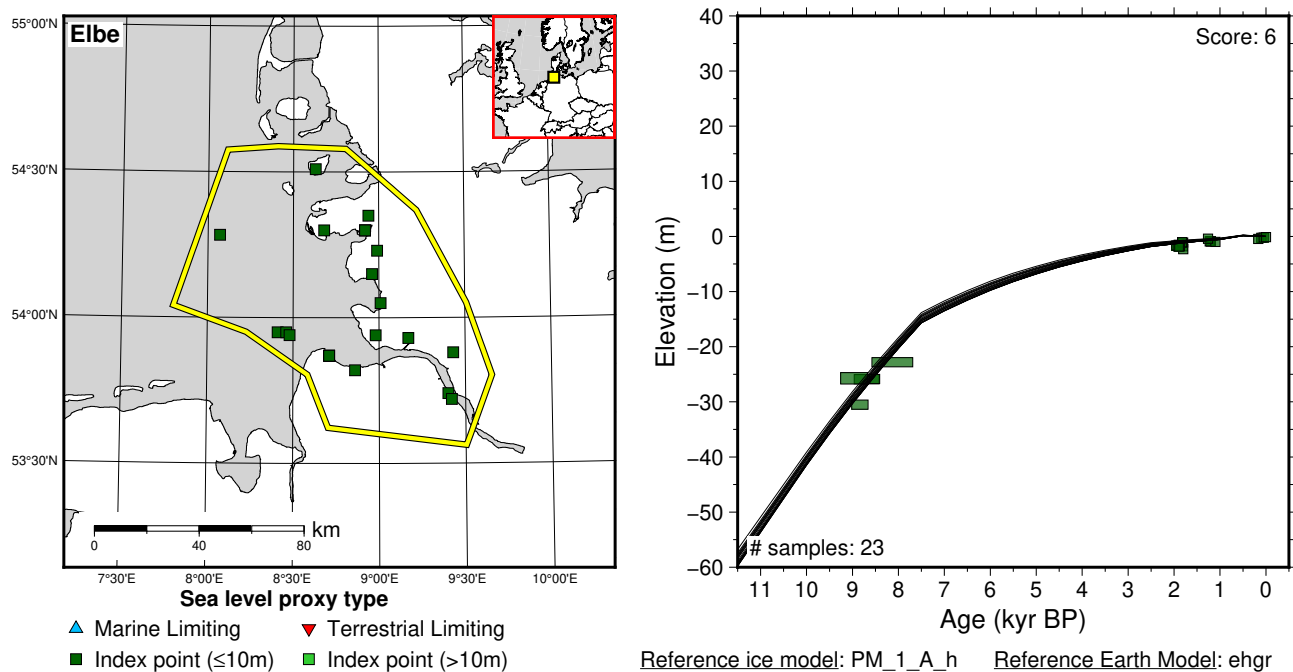


Figure 124: Paleo-sea level and comparison of six models for subregion: North Sea, location: Elbe. References: Bantelmann (1960, 1966, 1975); Bantelmann et al. (1984); Behre (2003, 2007); Behre et al. (1979); Brandt (1980); Higelke et al. (1984); Linke (1982); Meier (2001a,b); Menke (1976, 1988); Rohde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

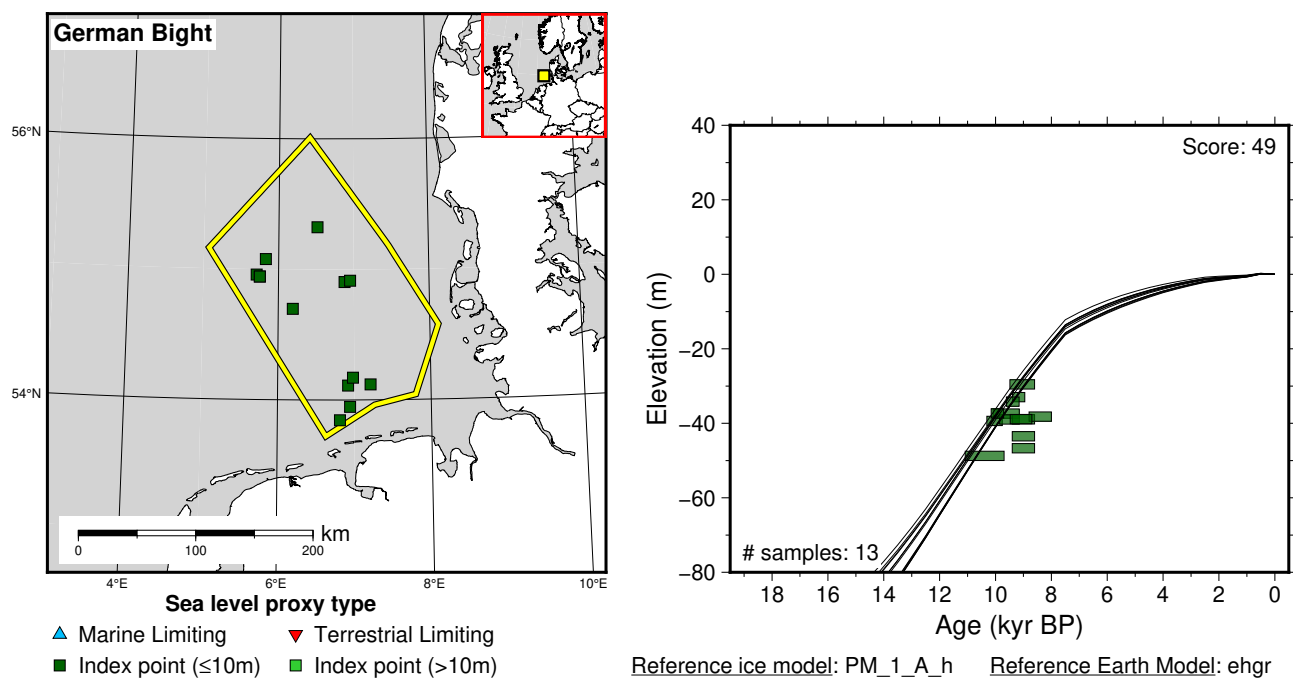


Figure 125: Paleo-sea level and comparison of six models for subregion: North Sea, location: German Bight. References: Behre (2003, 2007); Ludwig et al. (1979); Menke (1996); Streif et al. (1983); Vink et al. (2007).

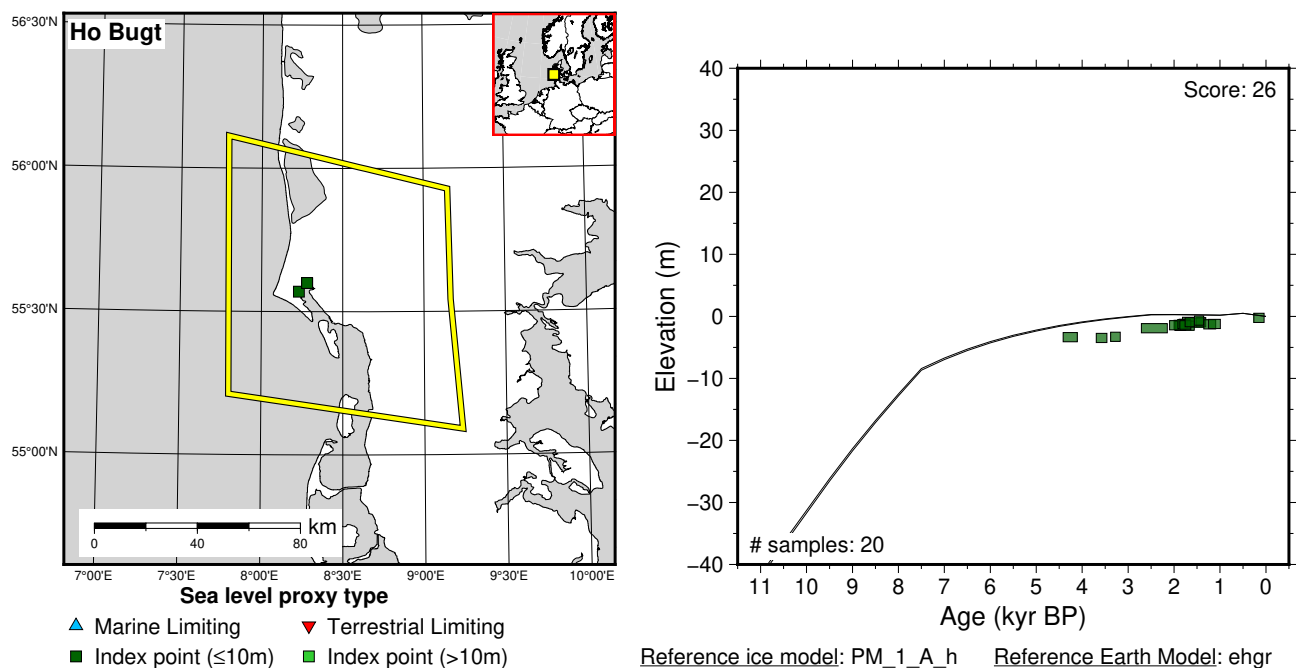


Figure 126: Paleo-sea level and comparison of six models for subregion: North Sea, location: Ho Bugt. References: Gehrels et al. (2006).

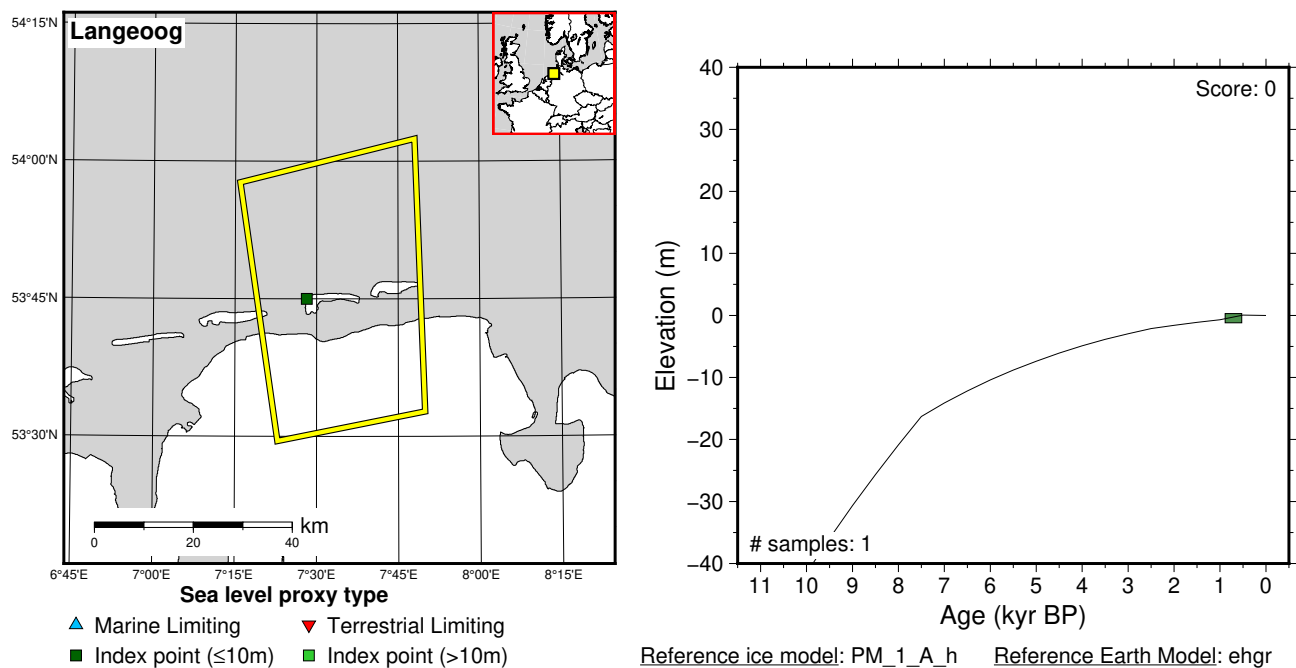


Figure 127: Paleo-sea level and comparison of six models for subregion: North Sea, location: Langeoog. References: Barckhausen (1969); Behre (2003, 2007); Vink et al. (2007).

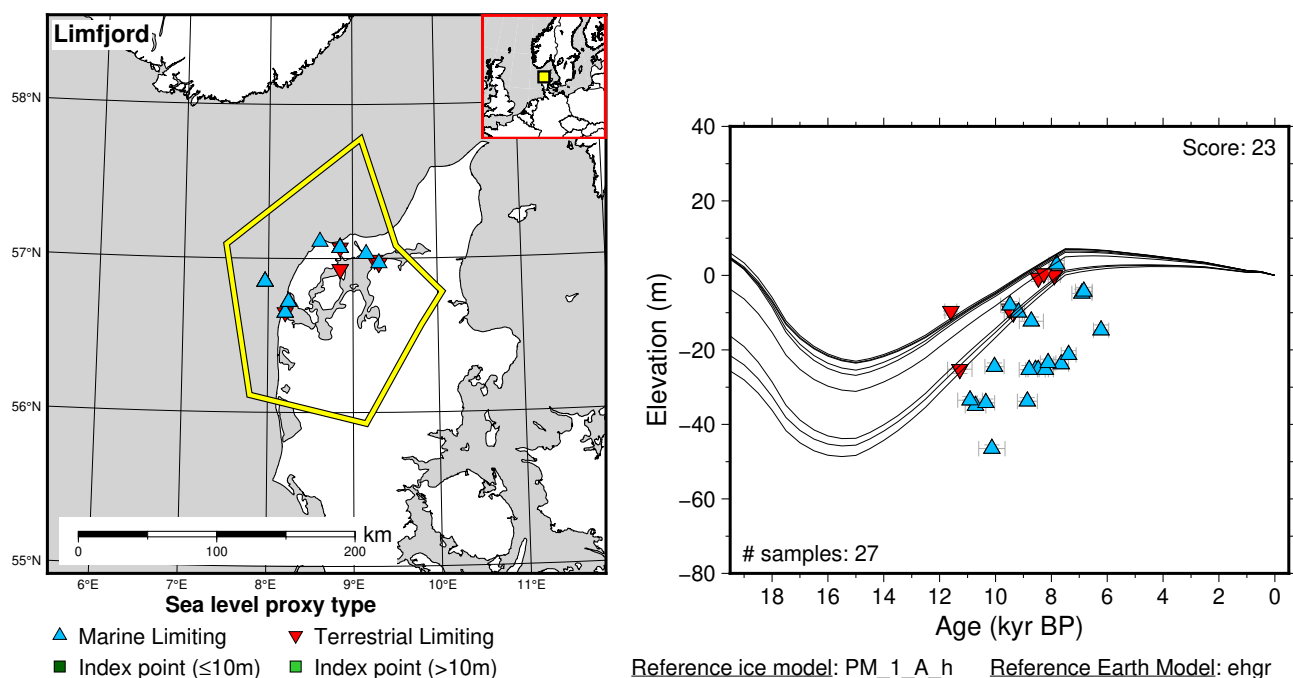


Figure 128: Paleo-sea level and comparison of six models for subregion: North Sea, location: Limfjord. References: Jessen et al. (2019); Nielsen (2010, 2013); Petersen (1975, 1981, 1985, 1998); Petersen and von Platen-Hallermund (2018).

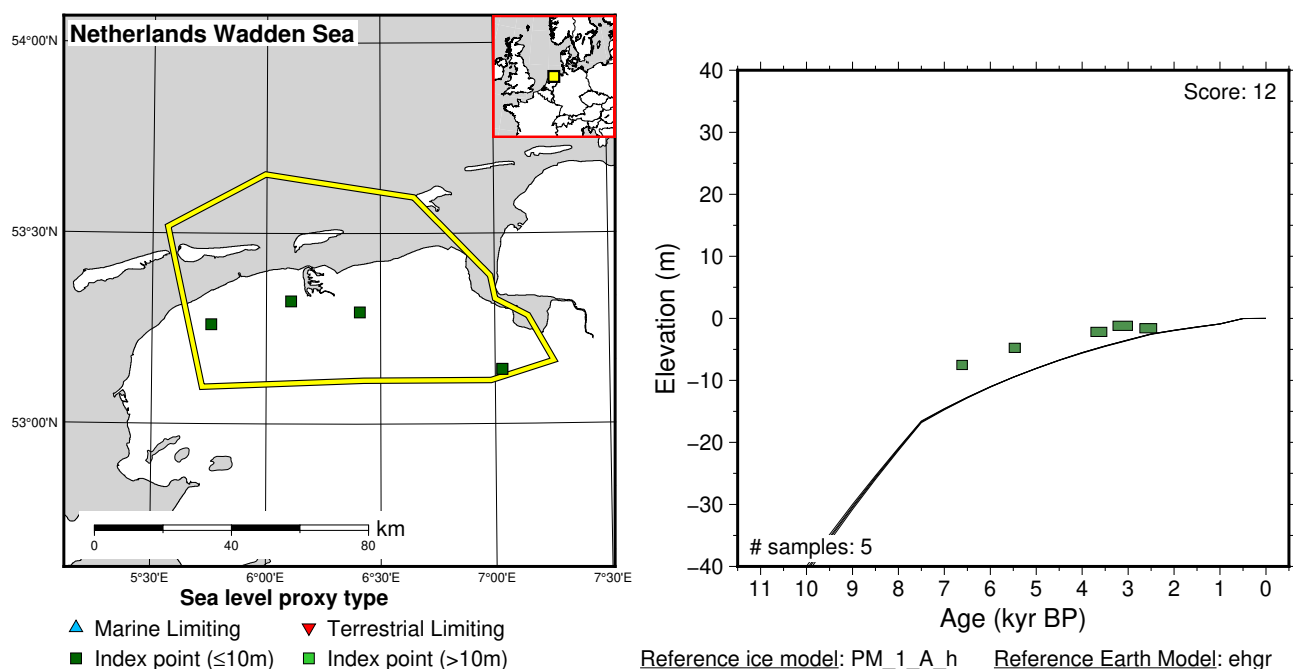


Figure 129: Paleo-sea level and comparison of six models for subregion: North Sea, location: Netherlands Wadden Sea. References: Griede (1978); Jelgersma (1961); Louwe Kooijmans (1976); van de Plassche (1982); Vink et al. (2007).

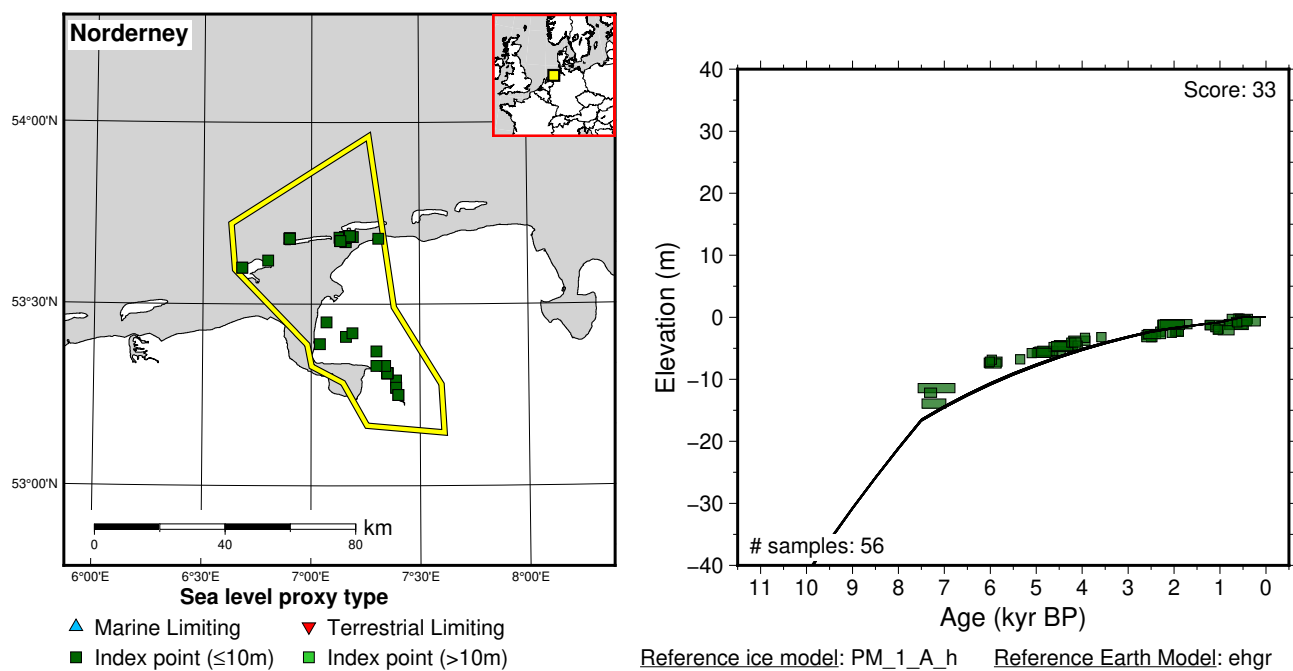


Figure 130: Paleo-sea level and comparison of six models for subregion: North Sea, location: Norderney. References: Barckhausen (1984); Behre (1970, 2003, 2007); Brandt (1980); Freund and Streif (2000); Haarnagel (1957, 1969, 1980); Reinhardt (1965); Scheder et al. (2019, 2022); Streif (1986); Vink et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

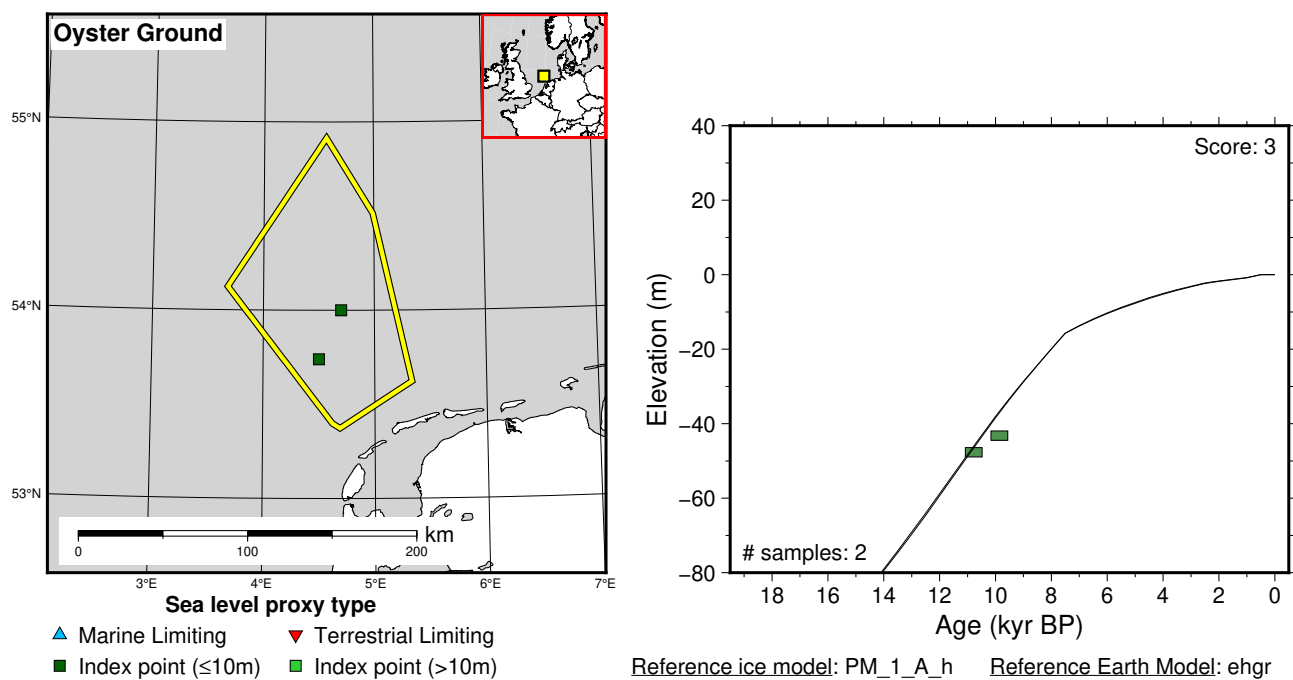


Figure 131: Paleo-sea level and comparison of six models for subregion: North Sea, location: Oyster Ground. References: Behre and Irion (1984); Behre (2003); Jelgersma (1979); Kiden et al. (2002); Vink et al. (2007).

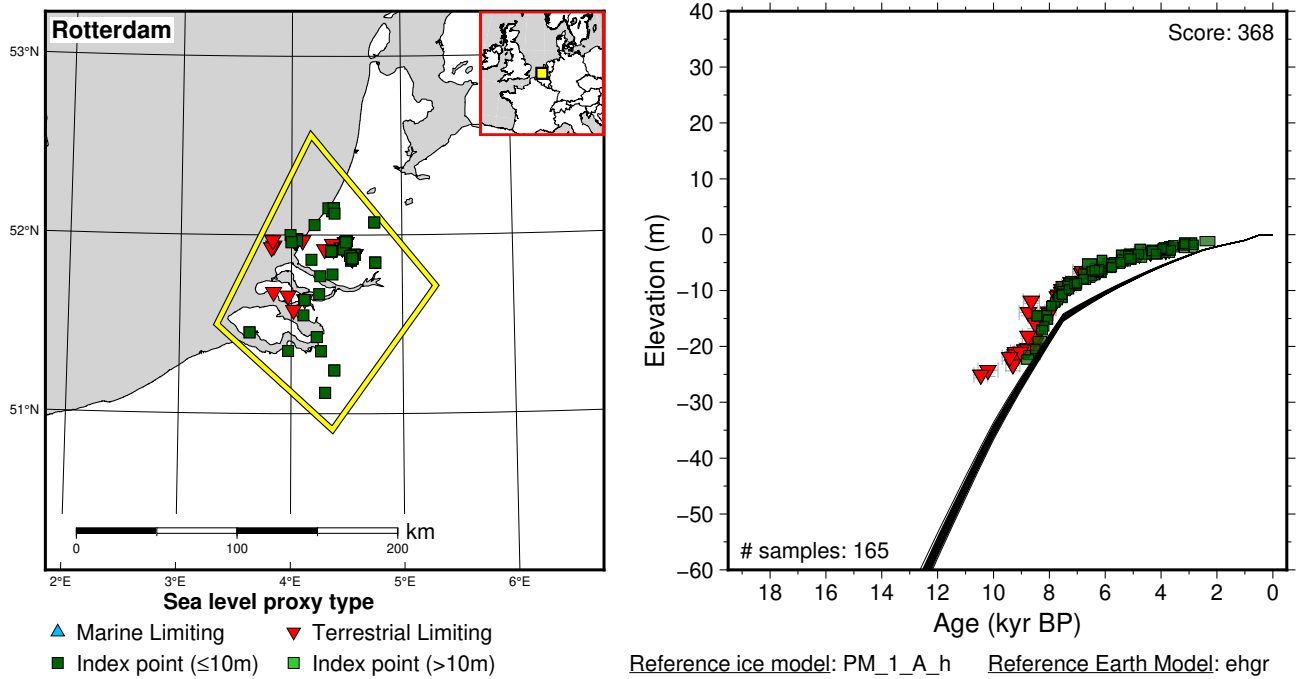


Figure 132: Paleo-sea level and comparison of six models for subregion: North Sea, location: Rotterdam. References: Bennema (1954); Berendsen et al. (2007); Hijma and Cohen (2010, 2019); Hijma et al. (2009); Jelgersma (1961); Kiden (1989, 1995); Louwe Kooijmans (1976); Louwe Kooijmans and van de Velde (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).

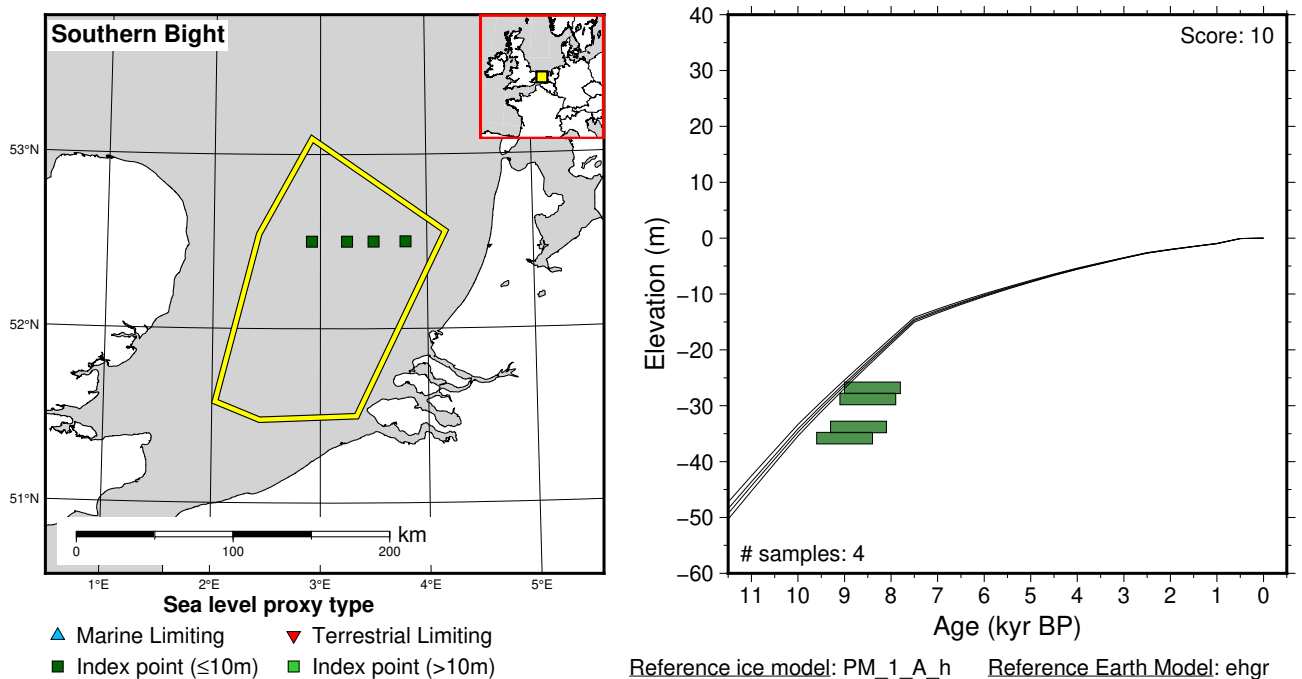


Figure 133: Paleo-sea level and comparison of six models for subregion: North Sea, location: Southern Bight. References: Jelgersma (1961); Kiden et al. (2002); Vink et al. (2007).

6.6.4 Skagerrak - Kattegat

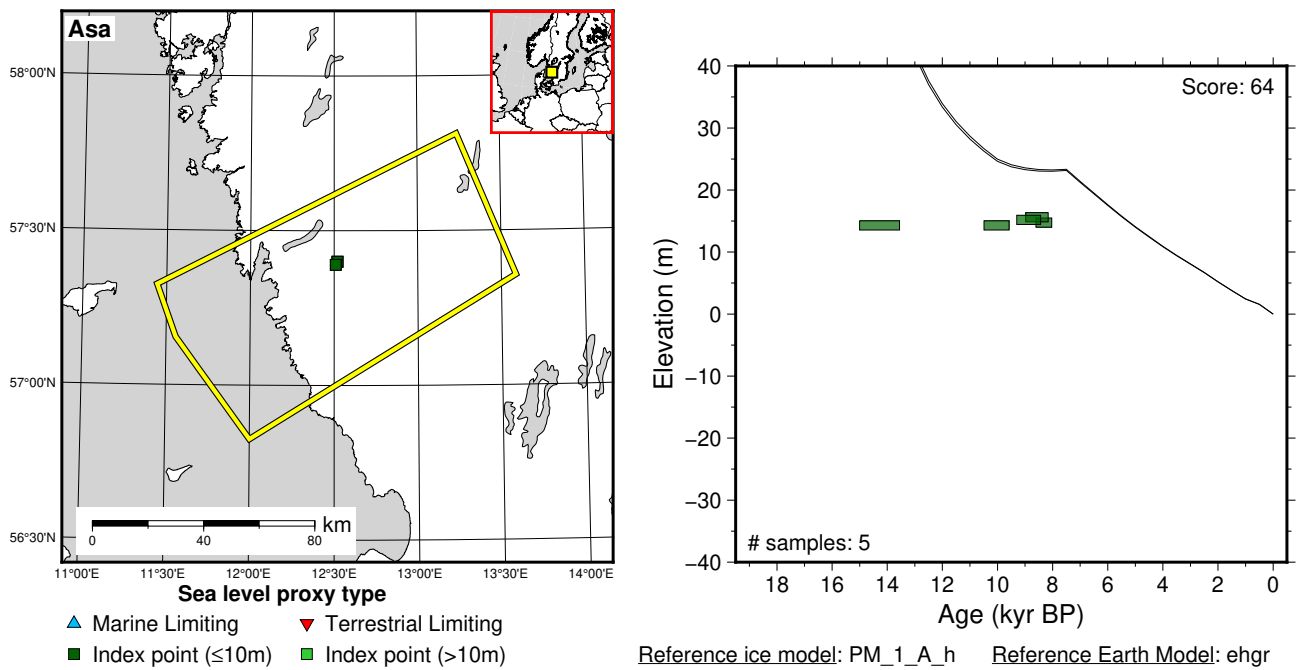


Figure 134: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Asa. References: Mörner (1969); Rosentau et al. (2021).

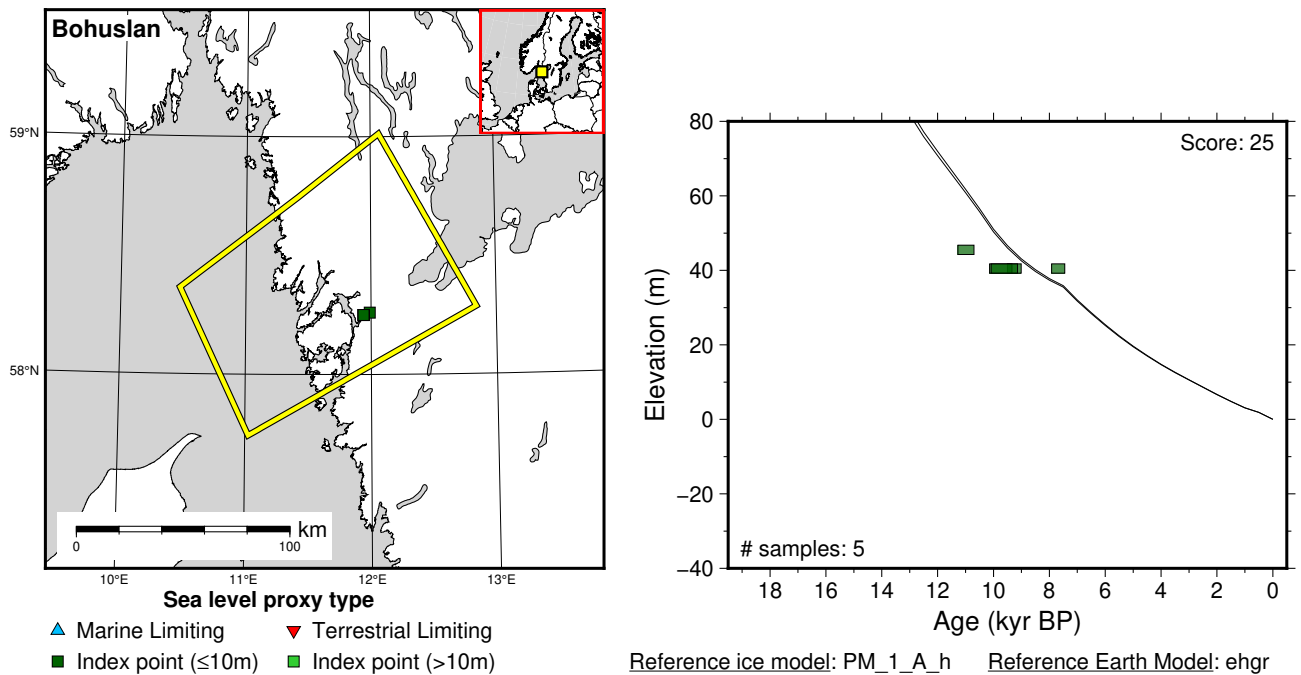


Figure 135: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Bohuslan. References: Persson (1973); Rosentau et al. (2021).

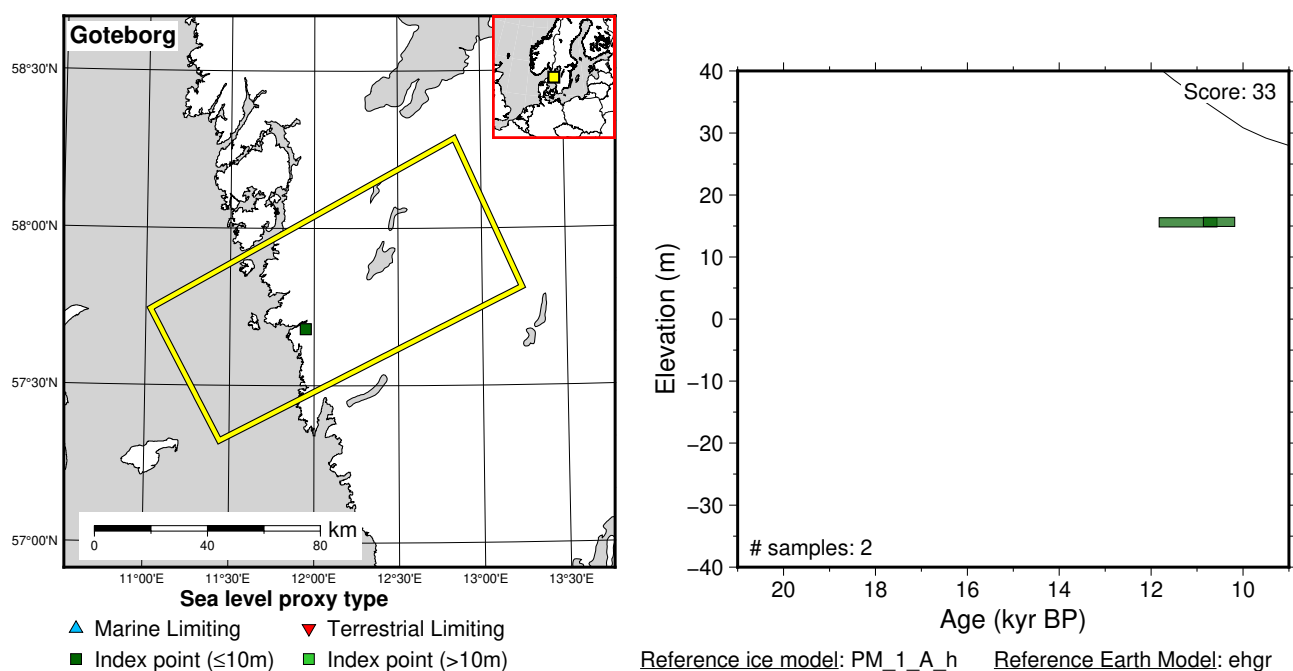


Figure 136: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Goteborg. References: Mörner (1969); Rosentau et al. (2021).

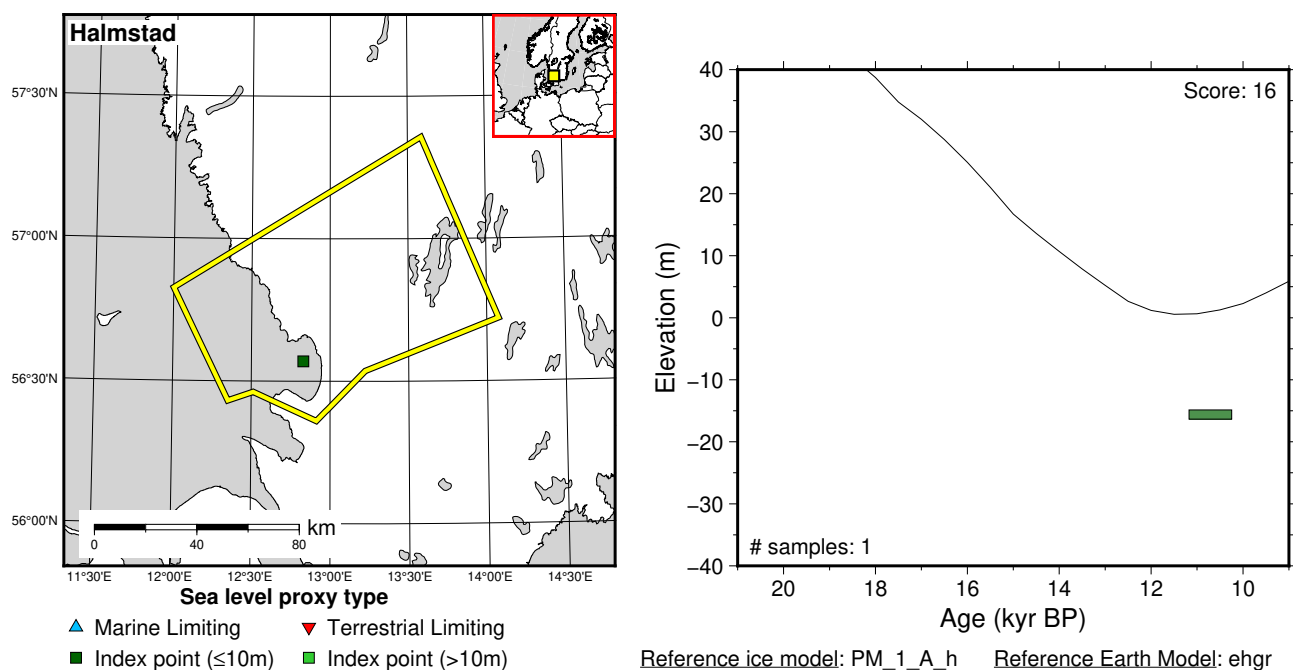


Figure 137: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Halmstad. References: Mörner (1969); Rosentau et al. (2021).

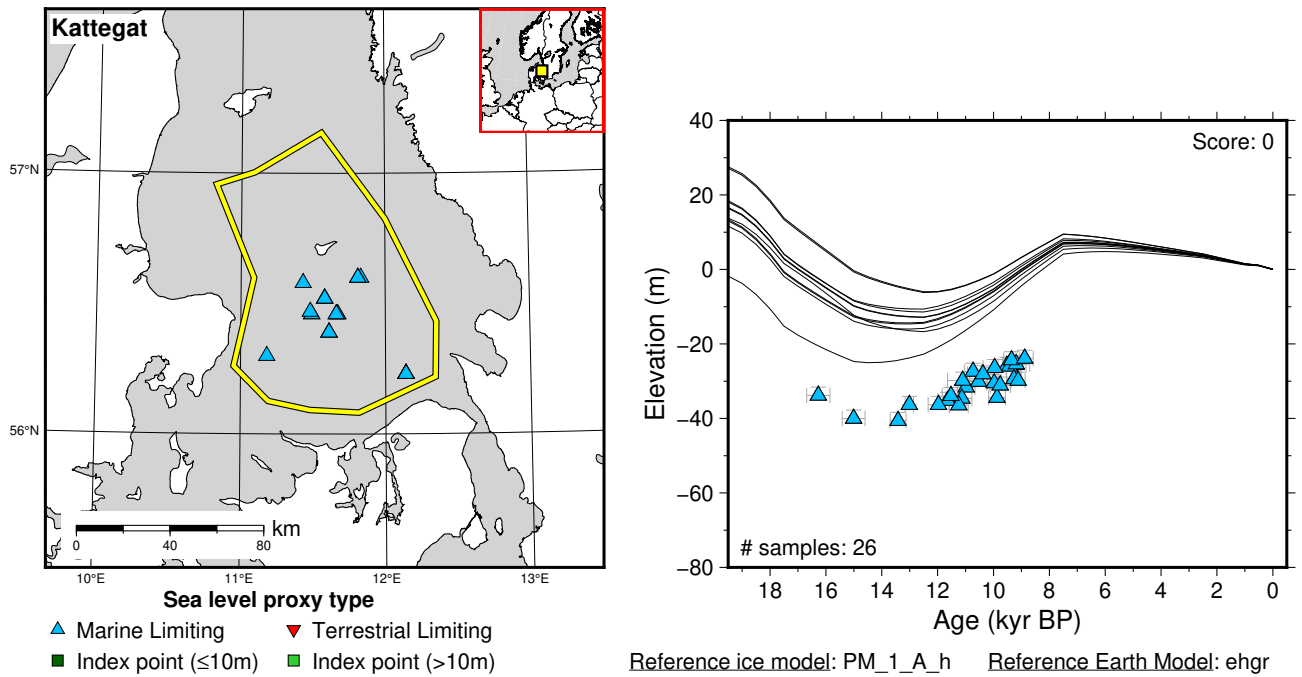


Figure 138: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Kattegat. References: Bendixen et al. (2017); Bennike et al. (2000); Christiansen et al. (1993); Jensen et al. (2002); Rosentau et al. (2021).

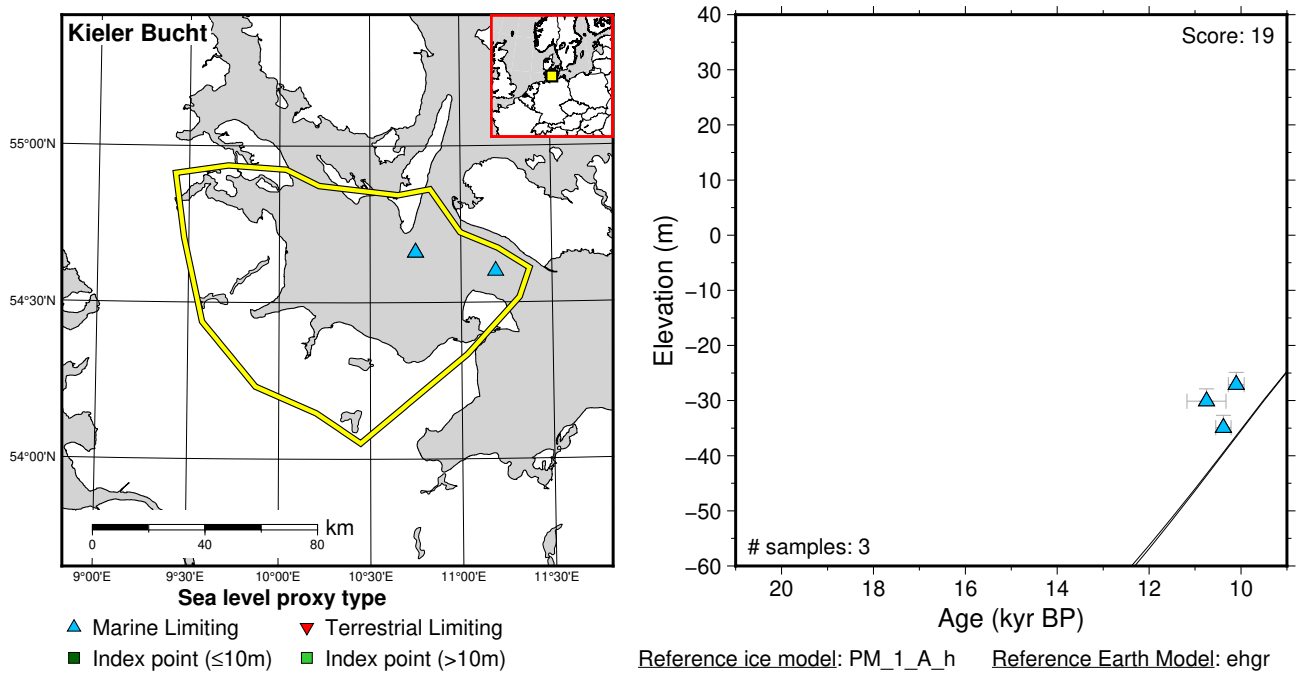


Figure 139: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Kieler Bucht. References: Bennike and Jensen (1998); Bennike et al. (2004); Rosentau et al. (2021).

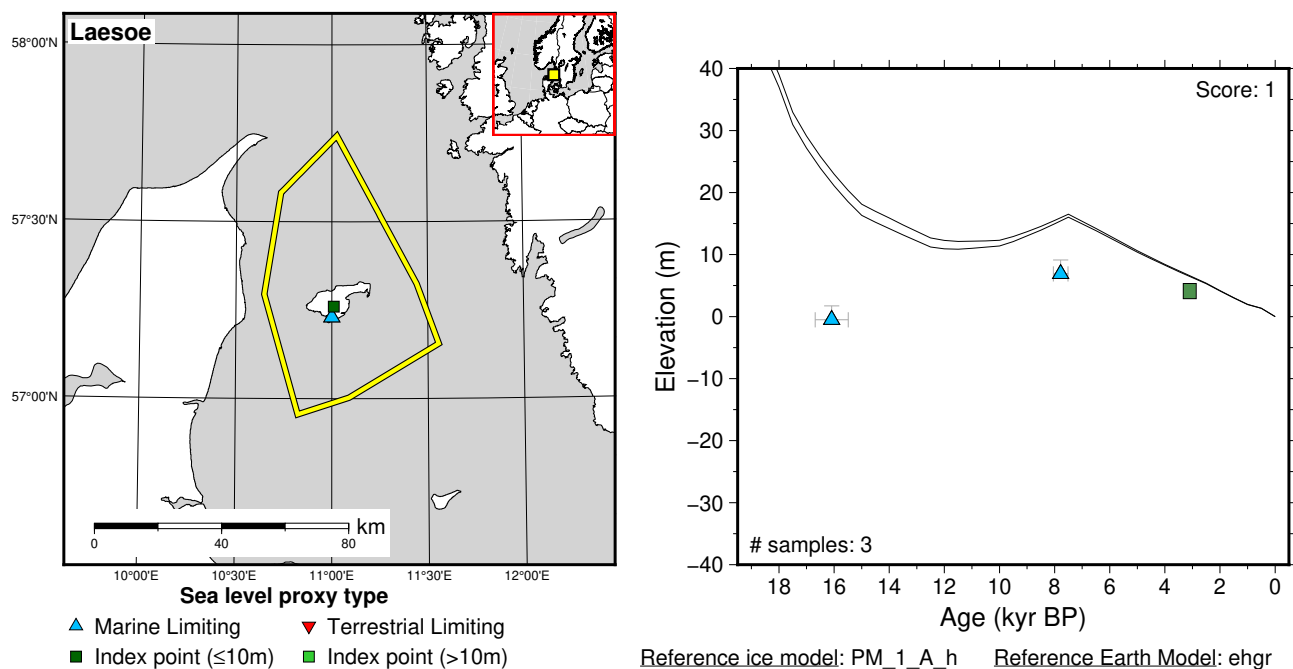


Figure 140: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Laesoe. References: Hansen (1977); Petersen and Rasmussen (1995); Rosentau et al. (2021).

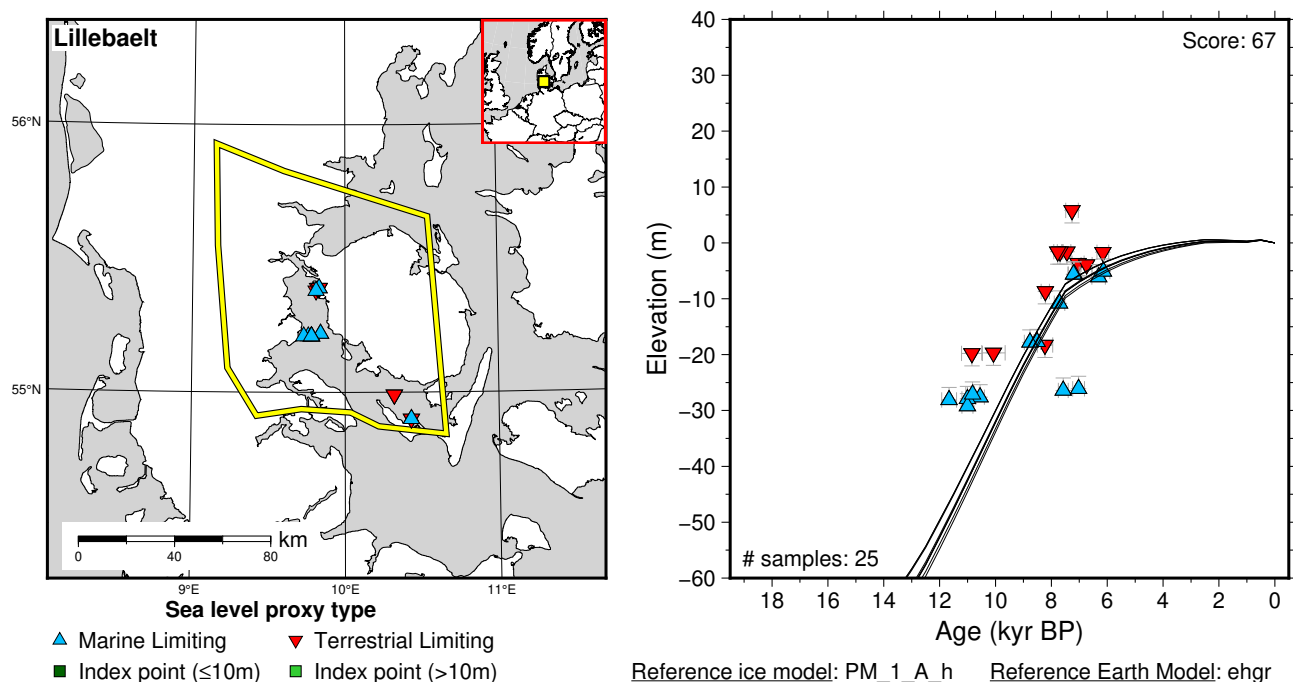


Figure 141: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Lillebaelt. References: Andersen (2013); Bennike and Jensen (2011); Krog (1979); Petersen and Rasmussen (1995); Rosentau et al. (2021); Skaarup and Grøn (2004); Tauber (1966).

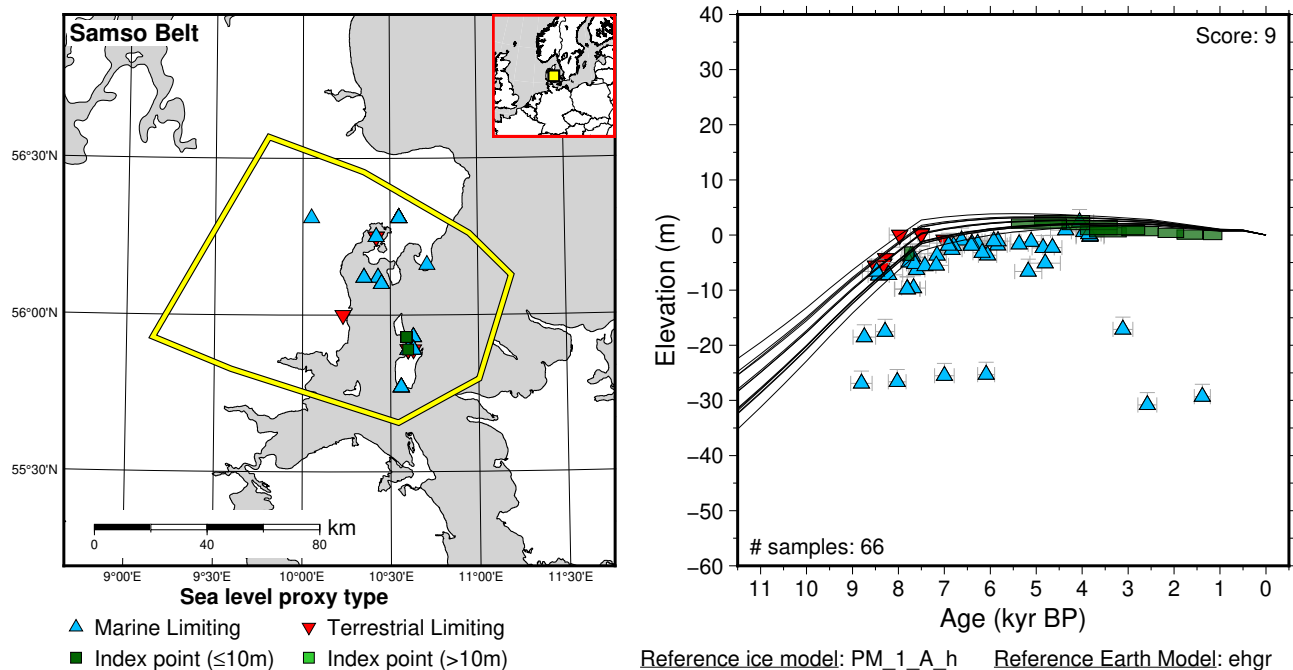


Figure 142: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Samso Belt. References: Fischer (2005); Hede et al. (2015); Jensen and Bennike (2009); Petersen (1993); Petersen and Rasmussen (1995); Rahbek and Rasmussen (1994); Rasmussen (1995); Rosentau et al.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

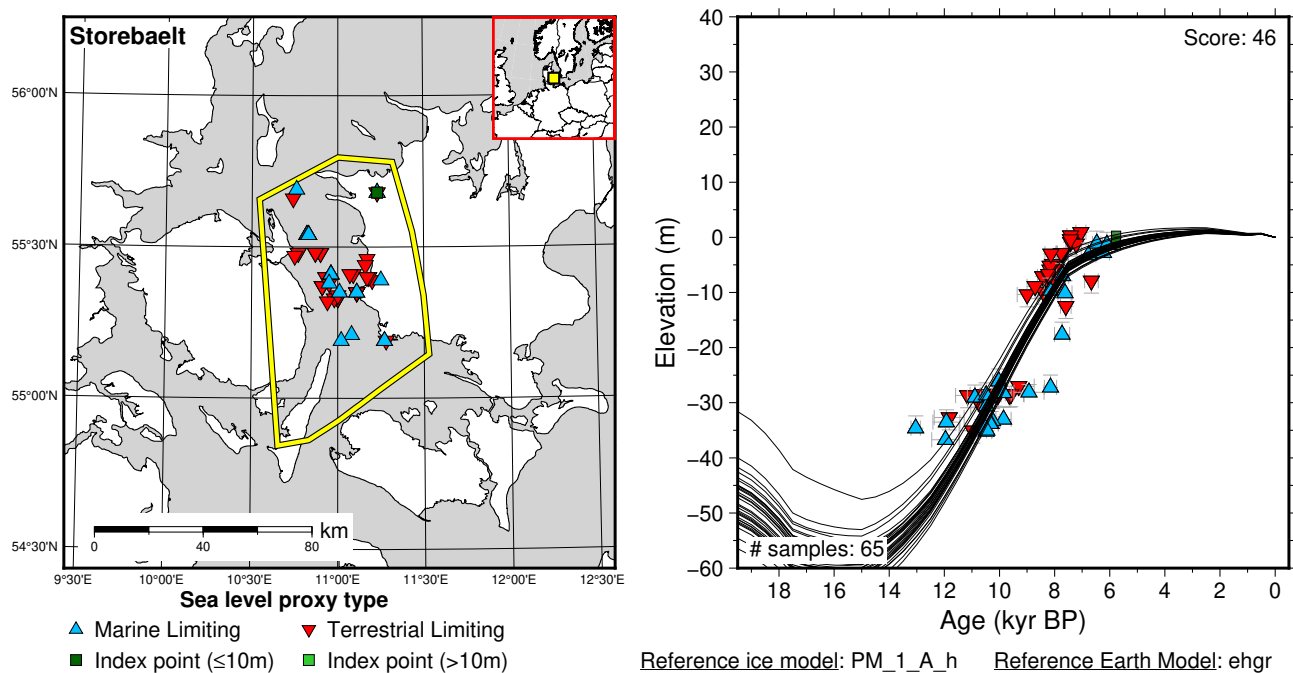


Figure 143: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Storebaelt. References: Bennike et al. (2004); Christensen et al. (1997); Hede (2003); Krog (1979); Petersen (1978); Rosentau et al. (2021); Winn et al. (1986).

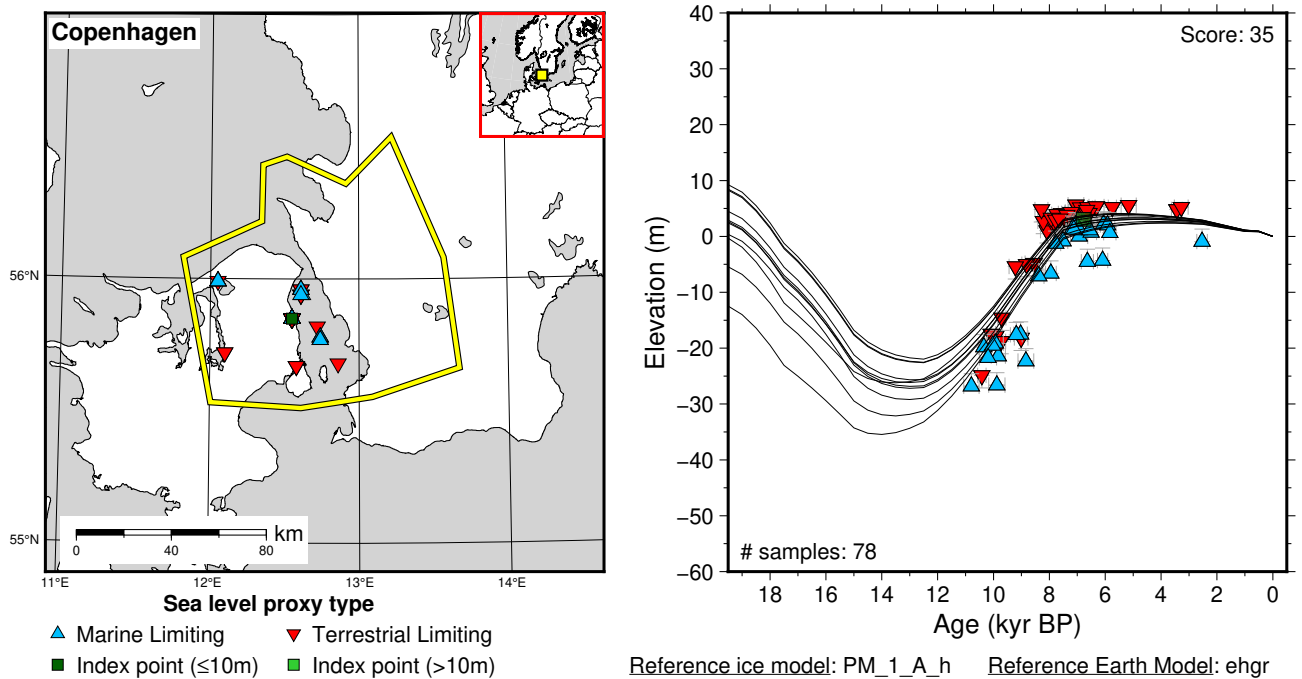


Figure 144: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Copenhagen. References: Bennike et al. (2012, 2017); Christensen (1982, 2014); Fischer (1993); Rasmussen (1992); Rosentau et al. (2021).

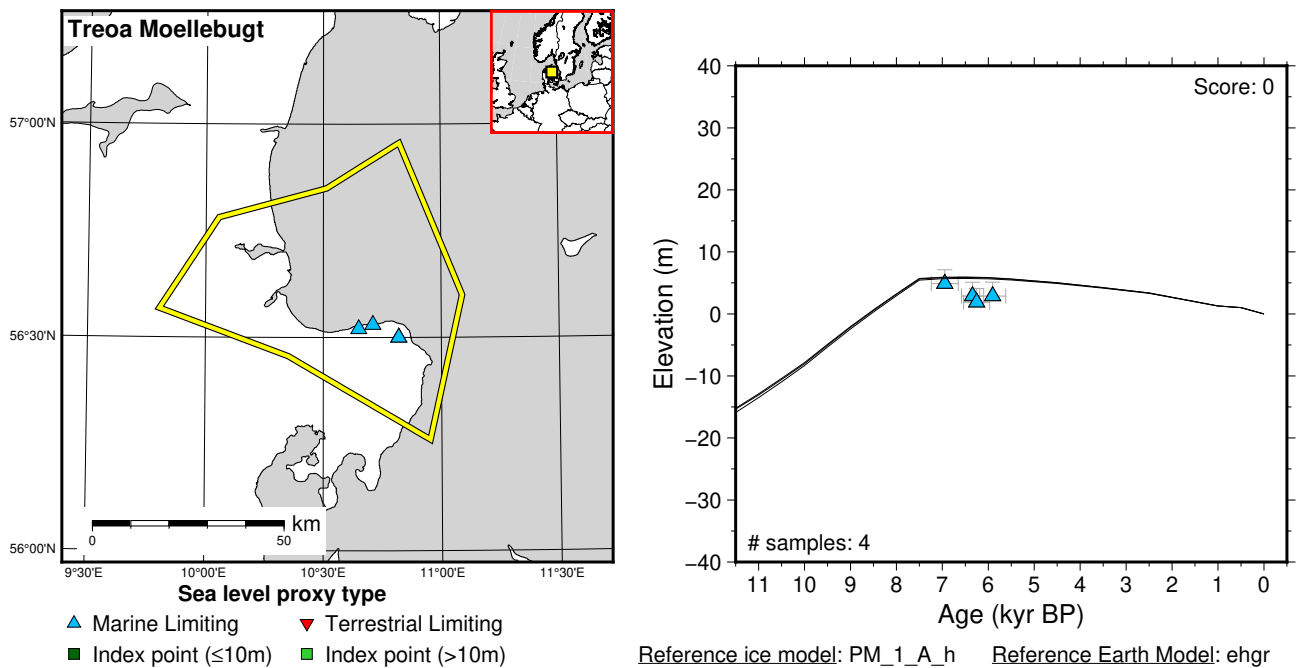


Figure 145: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Treoa Moellebugt. References: Petersen and Rasmussen (1995); Rosentau et al. (2021).

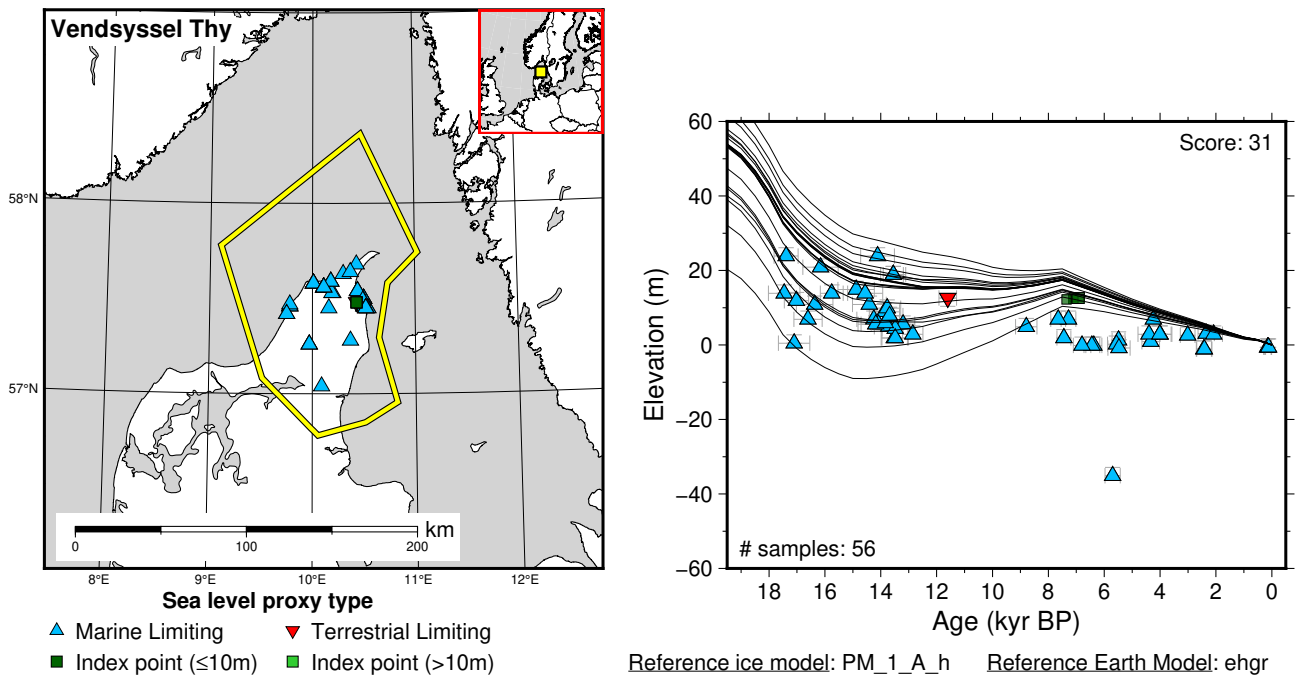


Figure 146: Paleo-sea level and comparison of six models for subregion: Skagerrak - Kattegat, location: Vendsyssel Thy. References: Aaris-Sørensen and Petersen (1984); Christensen and Nielsen (2008); Knudsen (1978); Krog and Tauber (1974); Petersen (1991); Petersen and Rasmussen (1995); Richardt (1996);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

6.6.5 South Baltic

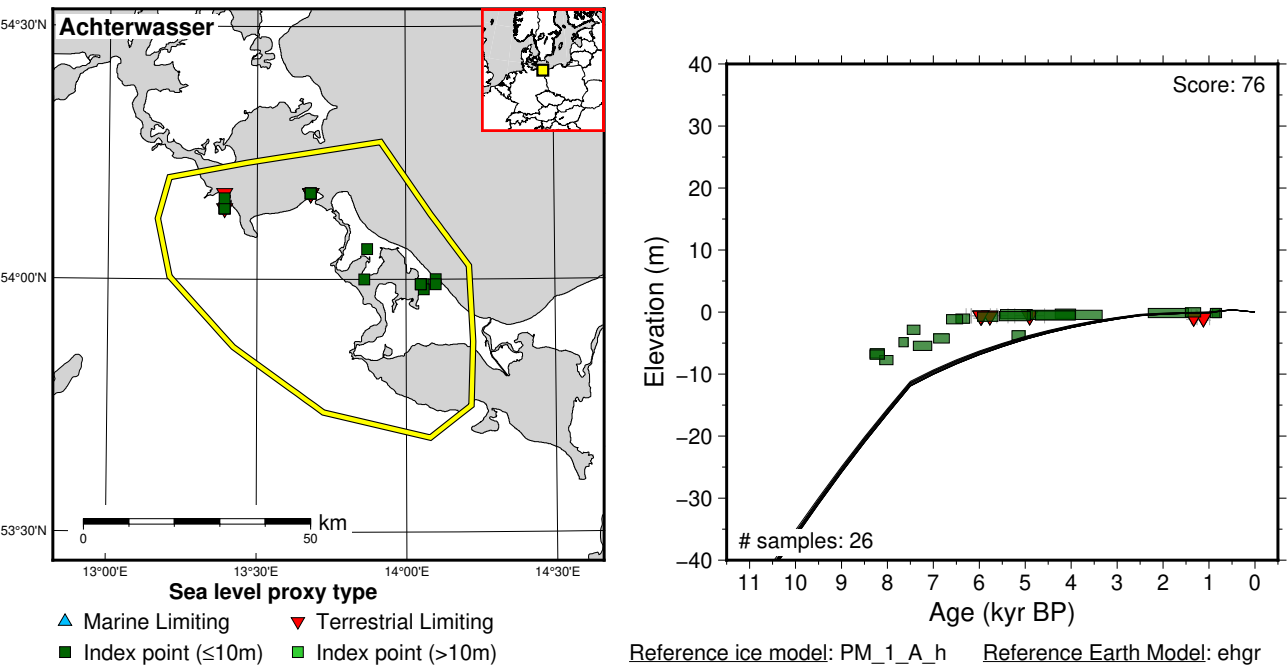


Figure 147: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Achterwasser. References: Hoffmann et al. (2009); Lampe and Janke (2004); Rosentau et al. (2021).

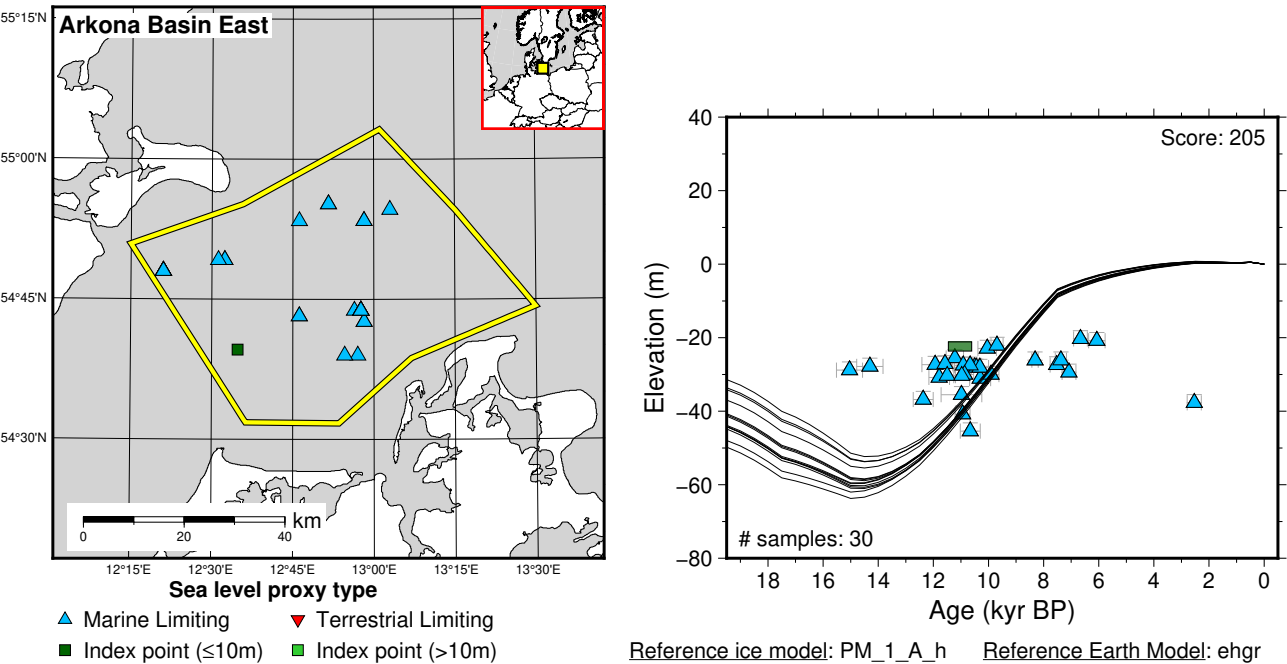


Figure 148: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Arkona Basin East. References: Bennike and Jensen (1998); Jensen et al. (1997); Rosentau et al. (2021).

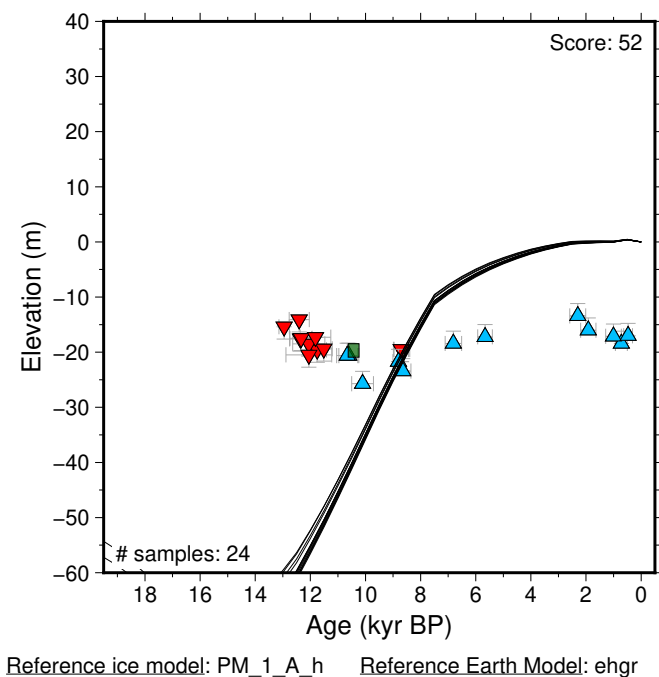
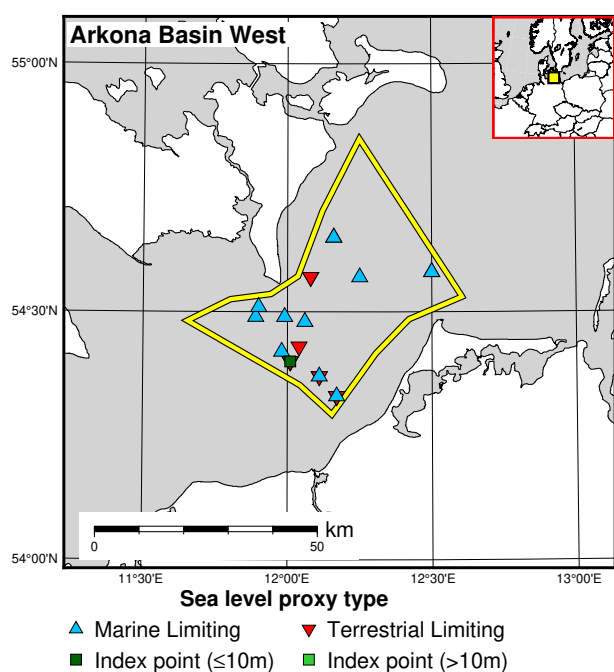


Figure 149: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Arkona Basin West. References: Bennike and Jensen (1998); Jensen et al. (1997); Rosentau et al. (2021).

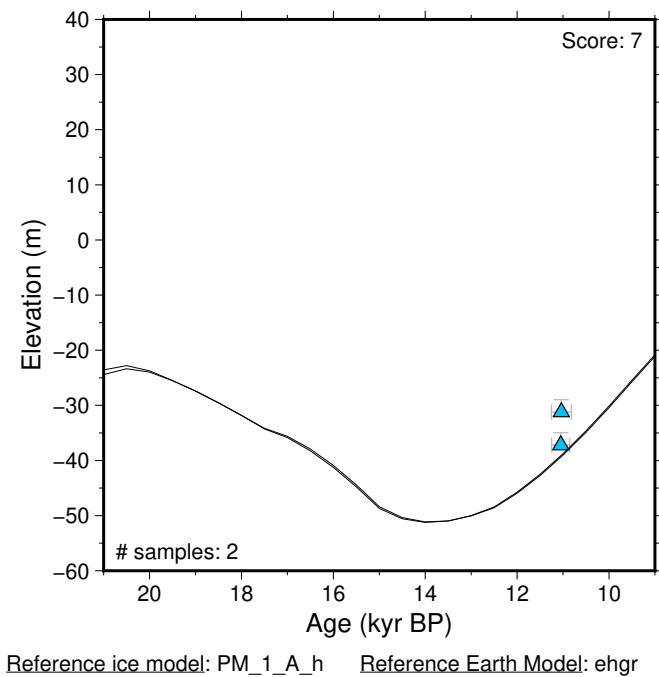
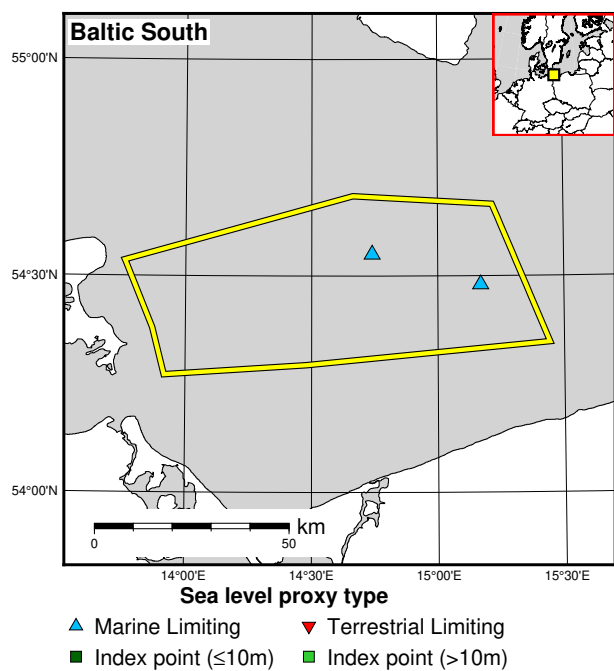


Figure 150: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Baltic South. References: Bennike and Lemke (2001); Rosentau et al. (2021).

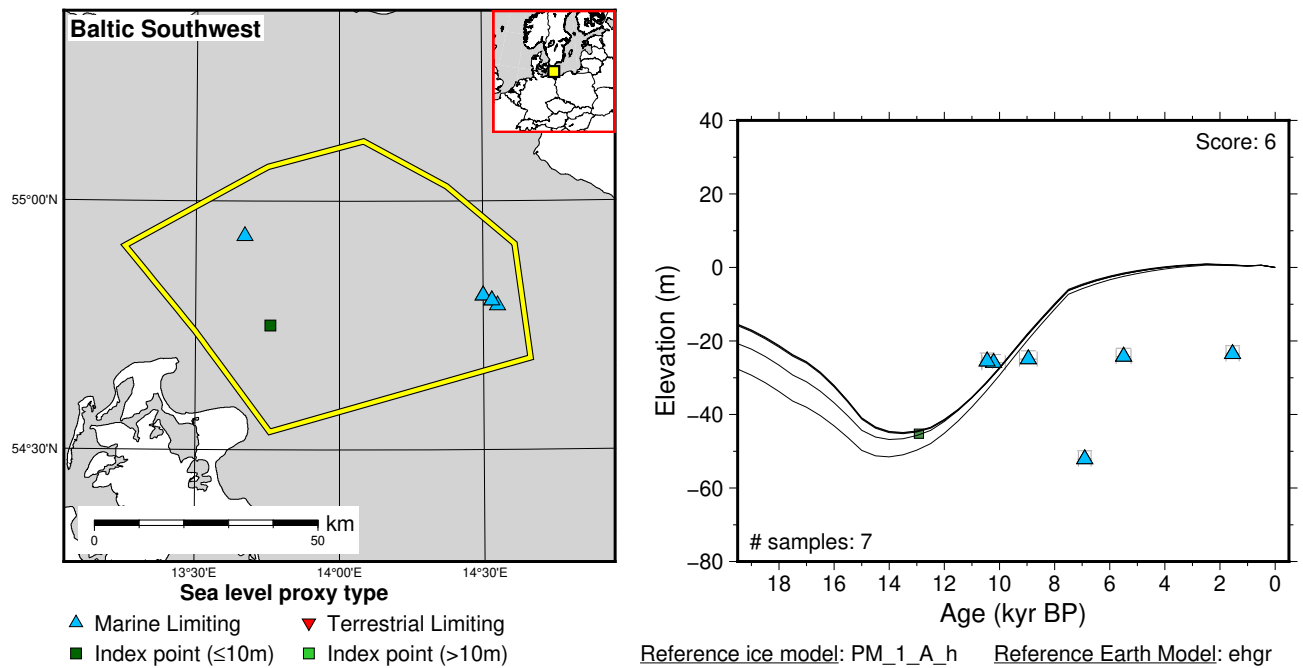


Figure 151: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Baltic Southwest. References: Bennike and Jensen (1998, 2013); Nielsen et al. (2004); Rosentau et al. (2021).

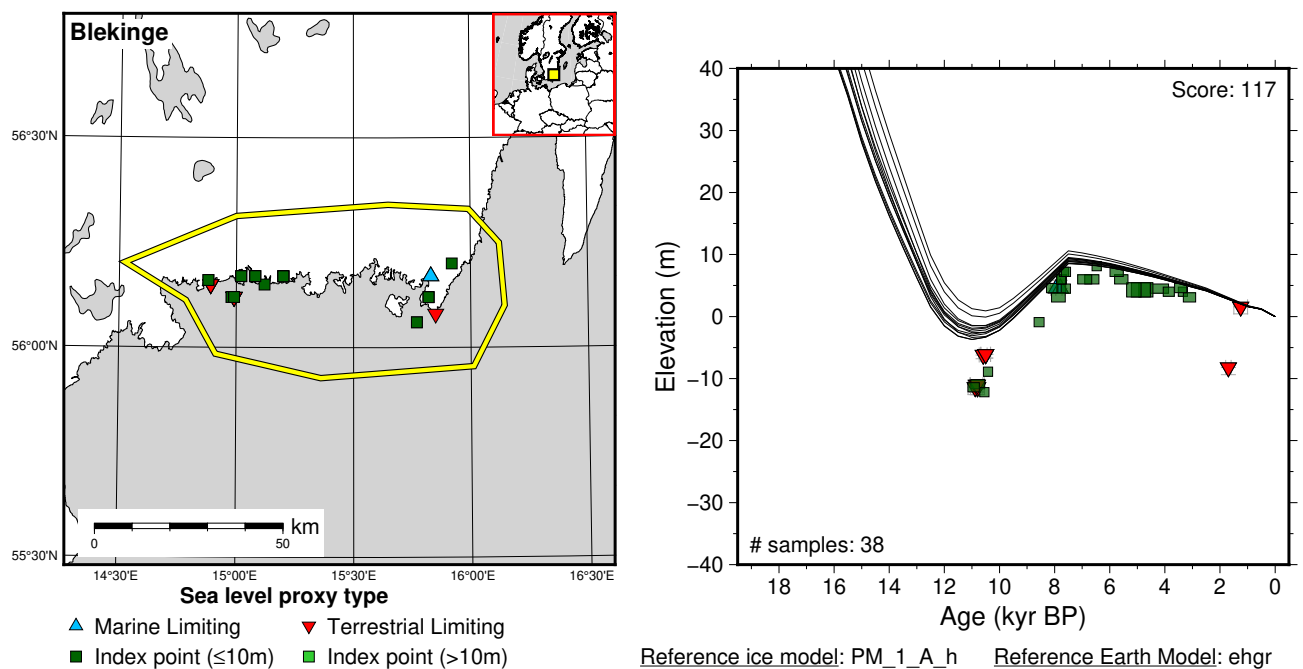


Figure 152: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Blekinge. References: Berglund (1964, 1971); Hansson (2018); Hansson et al. (2019); Liljegren (1970); Nylander (1969); Rosentau et al. (2021); Yu et al. (2003, 2005, 2007).

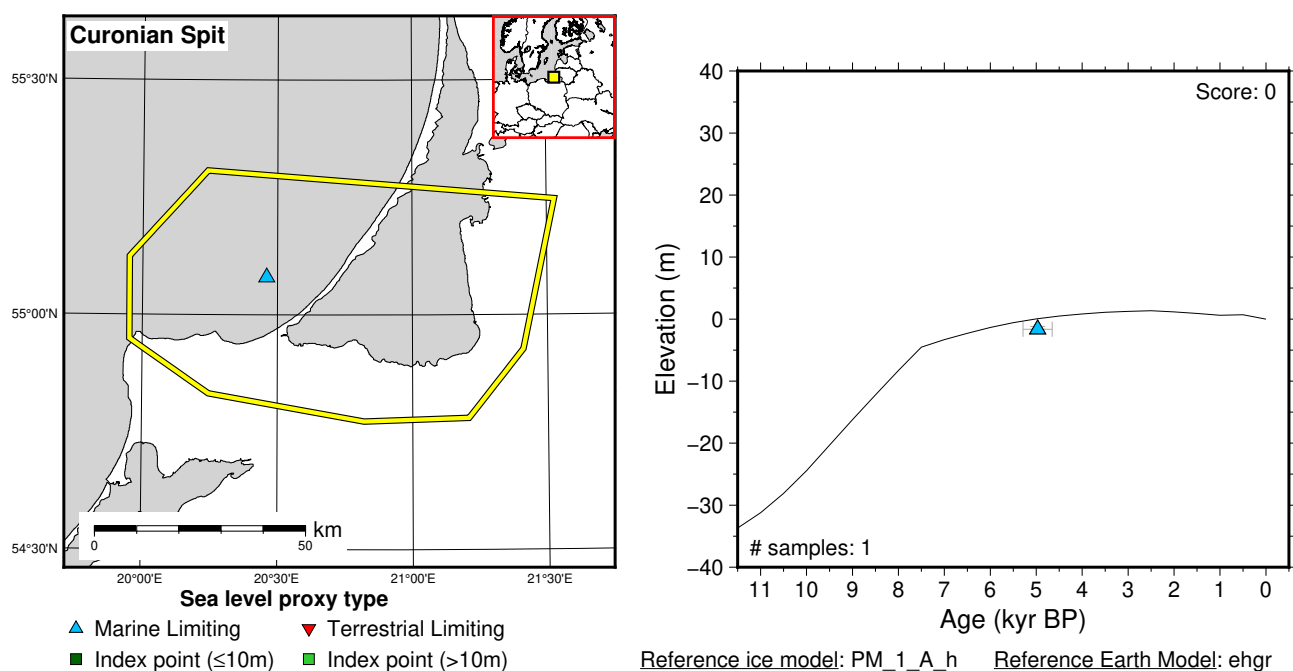


Figure 153: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Curonian Spit. References: Rosentau et al. (2021); Sergeev et al. (2015).

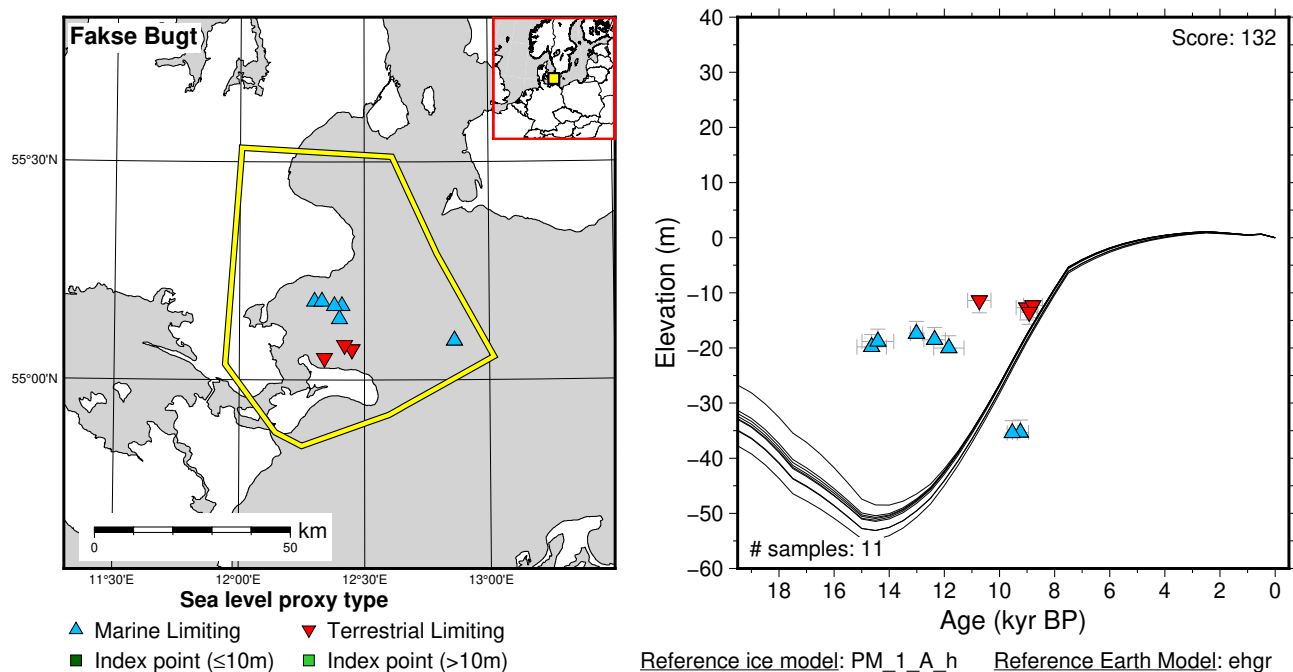


Figure 154: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Fakse Bugt. References: Bennike and Jensen (1995, 1998); Jensen and Stecher (1992); Rosentau et al. (2021).

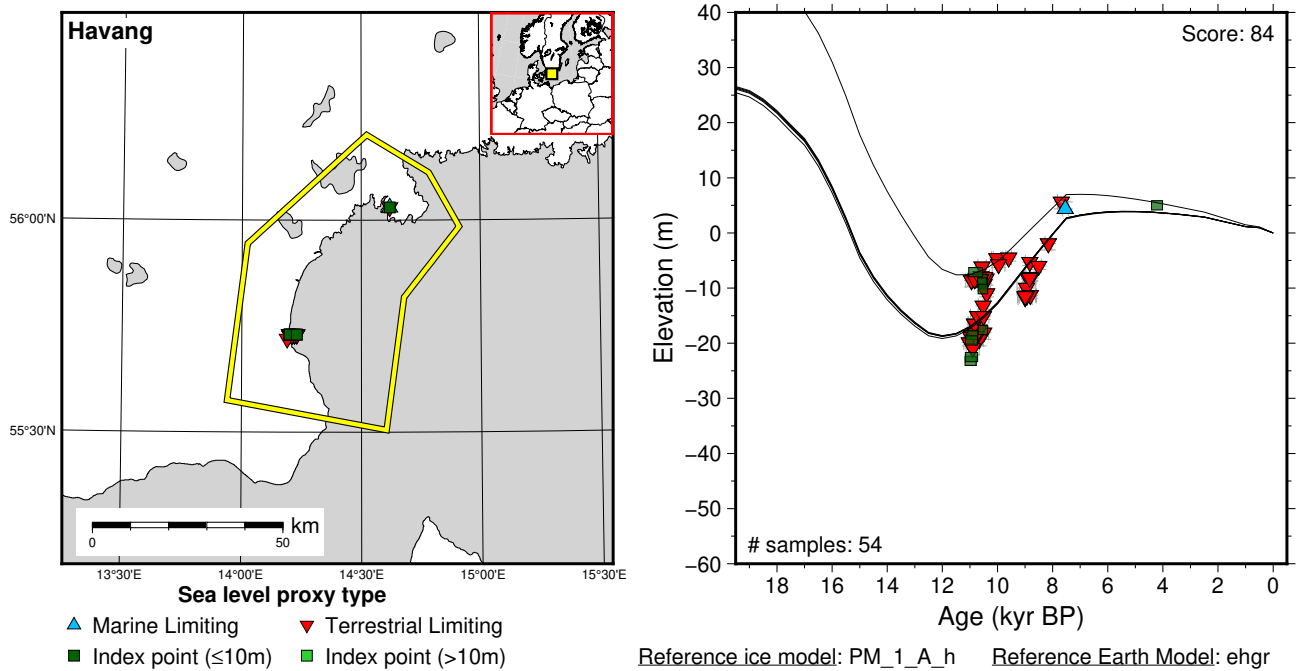


Figure 155: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Havang. References: Berglund (1971); Hansson (2018); Hansson et al. (2018a,b); Rosentau et al. (2021).

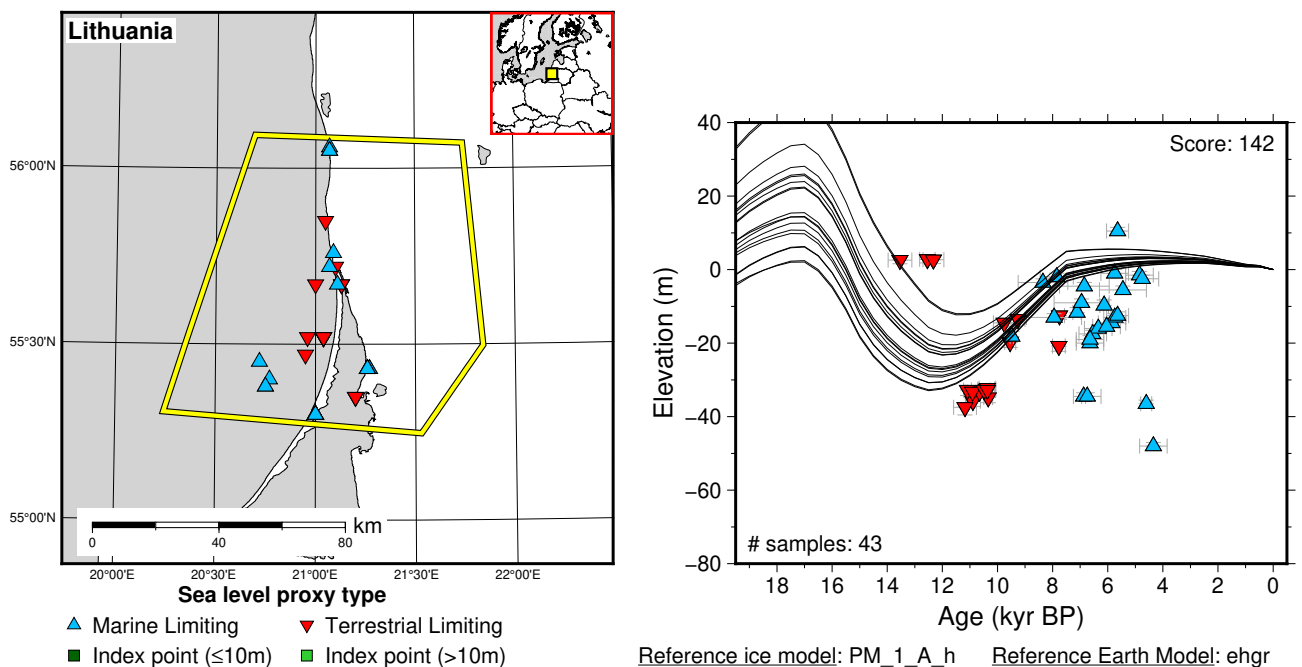


Figure 156: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Lithuania. References: Bitinas et al. (2000, 2001, 2002, 2003, 2017); Damušytė (2011); Gelumauskaitė (2009); Girininkas and Žulkus (2017); Rosentau et al. (2021); Trimonis et al. (2007); Žulkus and Girininkas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

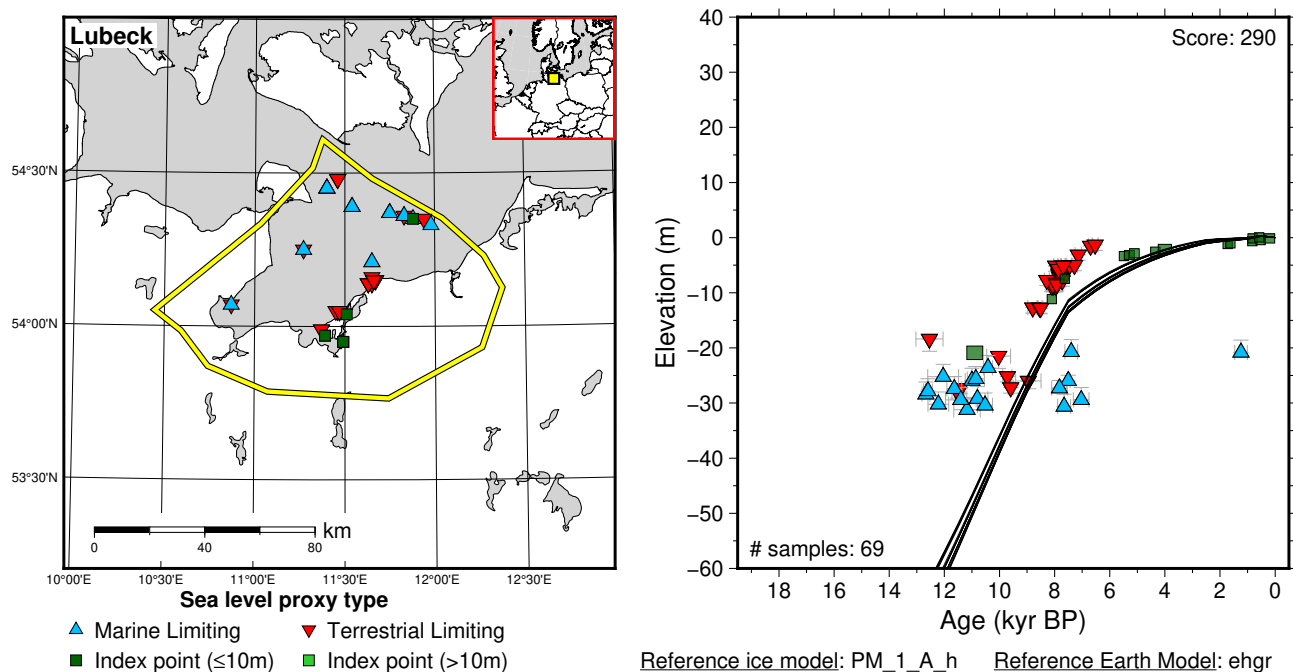


Figure 157: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Lubeck. References: Bennike and Jensen (1998); Bennike and Lemke (2001); Harders et al. (2005); Heinrich et al. (2018); Jensen et al. (1997, 2002); Lampe et al. (2010); Rosentau et al. (2021); Winn et al.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

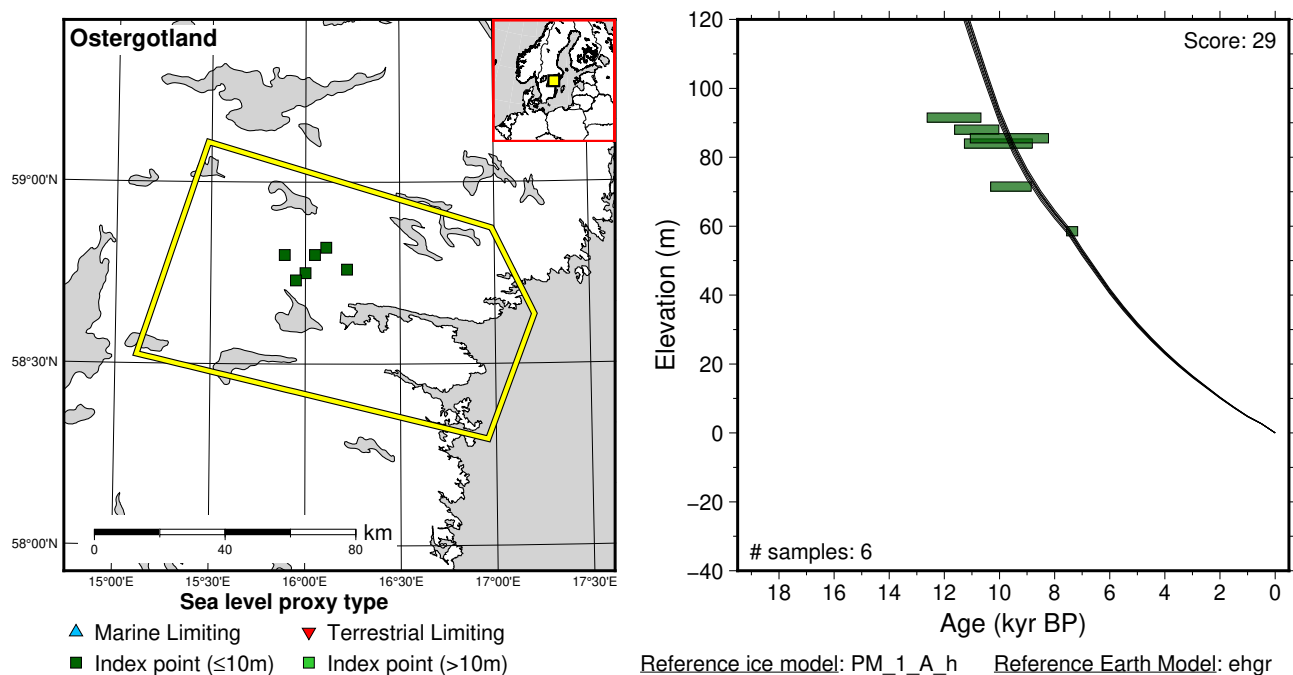


Figure 158: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Ostergotland. References: Persson (1979); Rosentau et al. (2021).

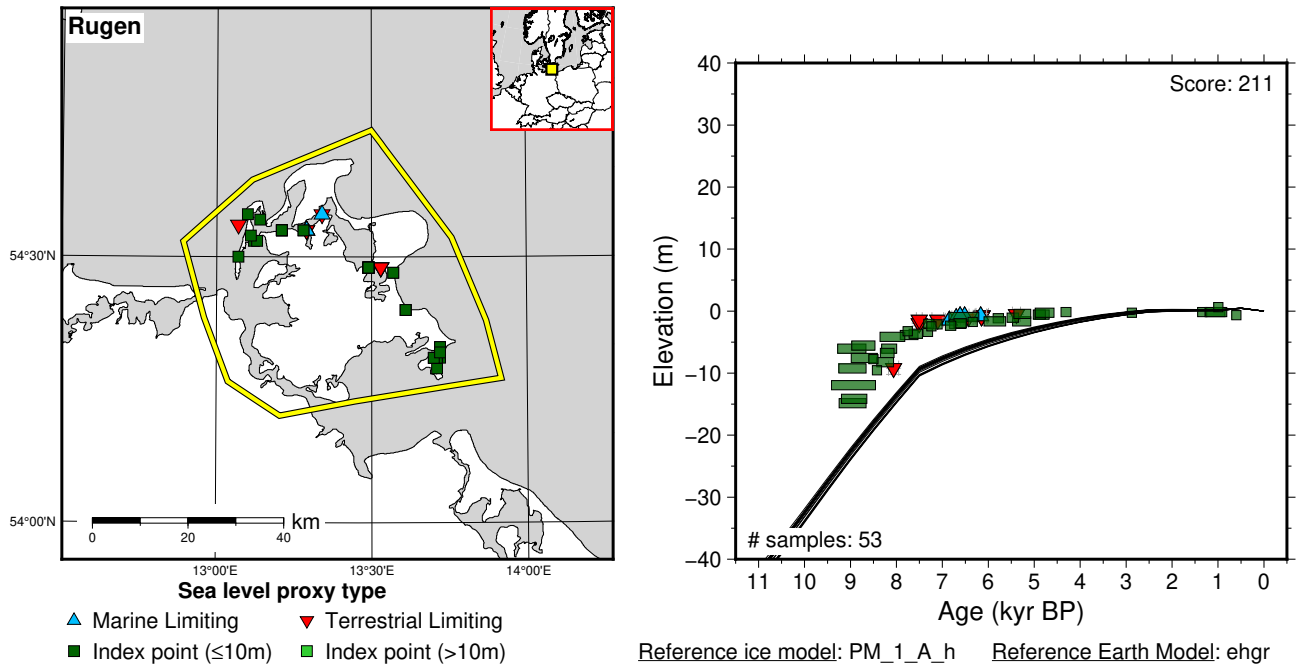


Figure 159: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Rugen. References: Hoffmann et al. (2009); Lampe et al. (2010); Naumann and Lampe (2011); Rosentau et al. (2021).

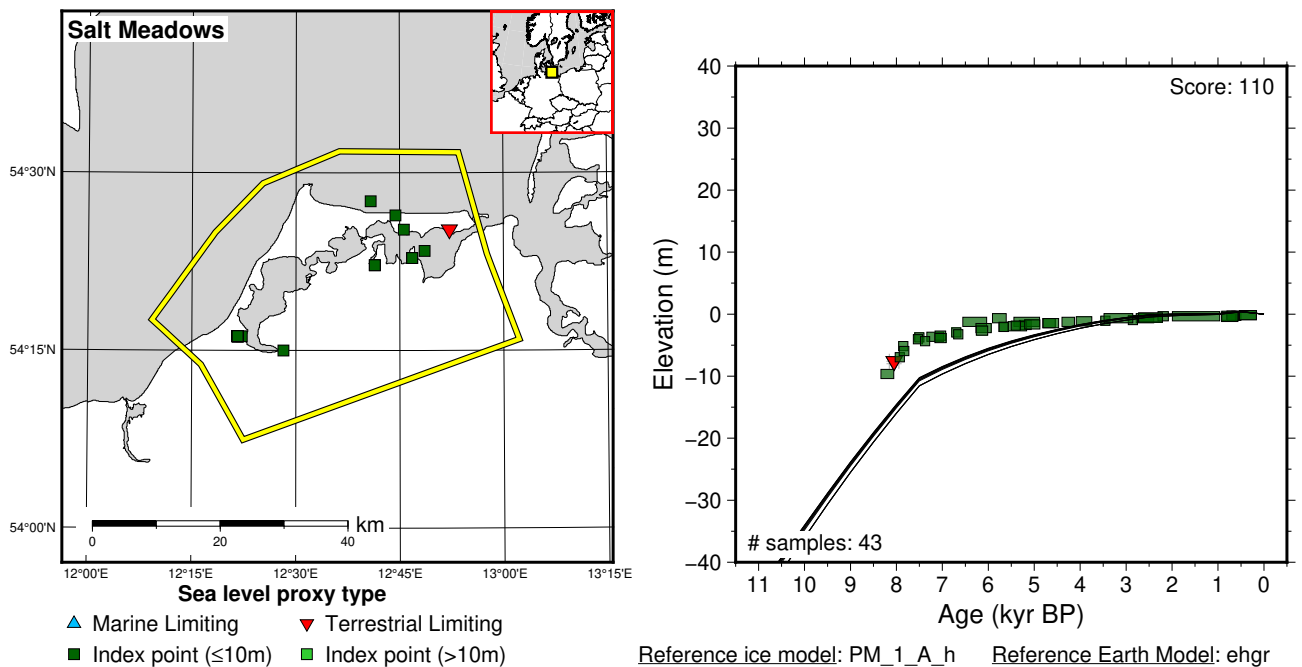


Figure 160: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Salt Meadows. References: Lampe and Janke (2004); Lampe et al. (2010); Naumann and Lampe (2011); Rosentau et al. (2021).

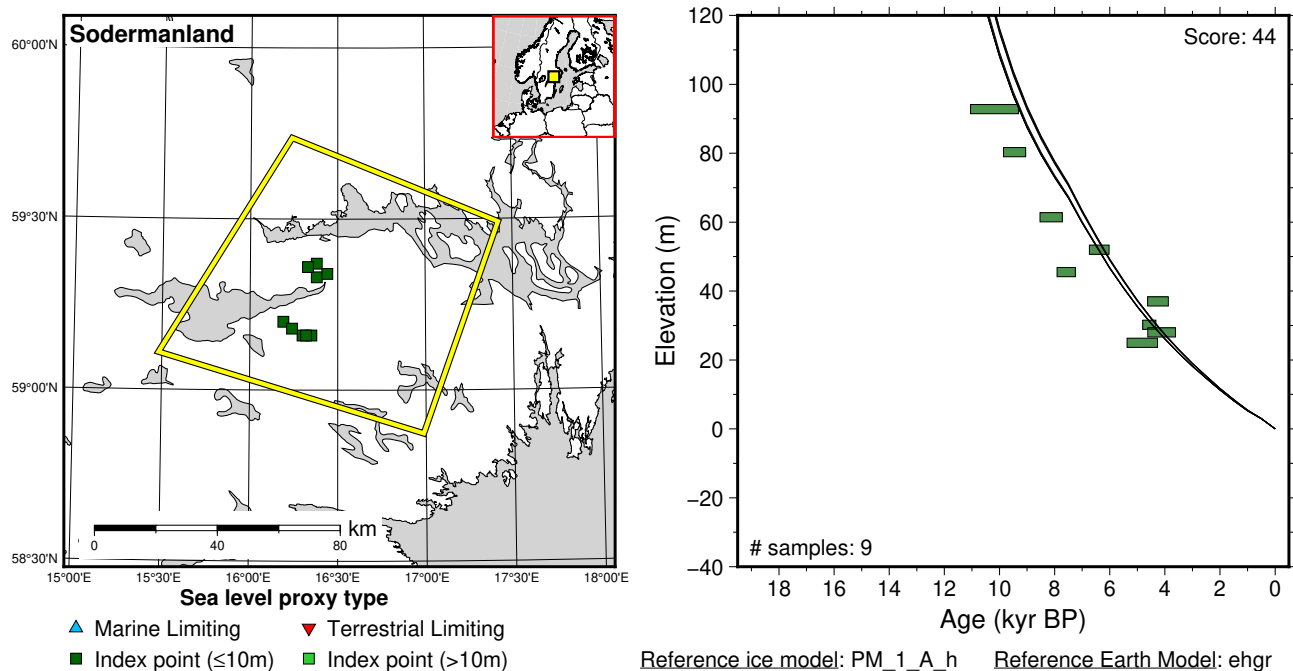


Figure 161: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Sodermanland. References: Robertsson (1991); Rosentau et al. (2021).

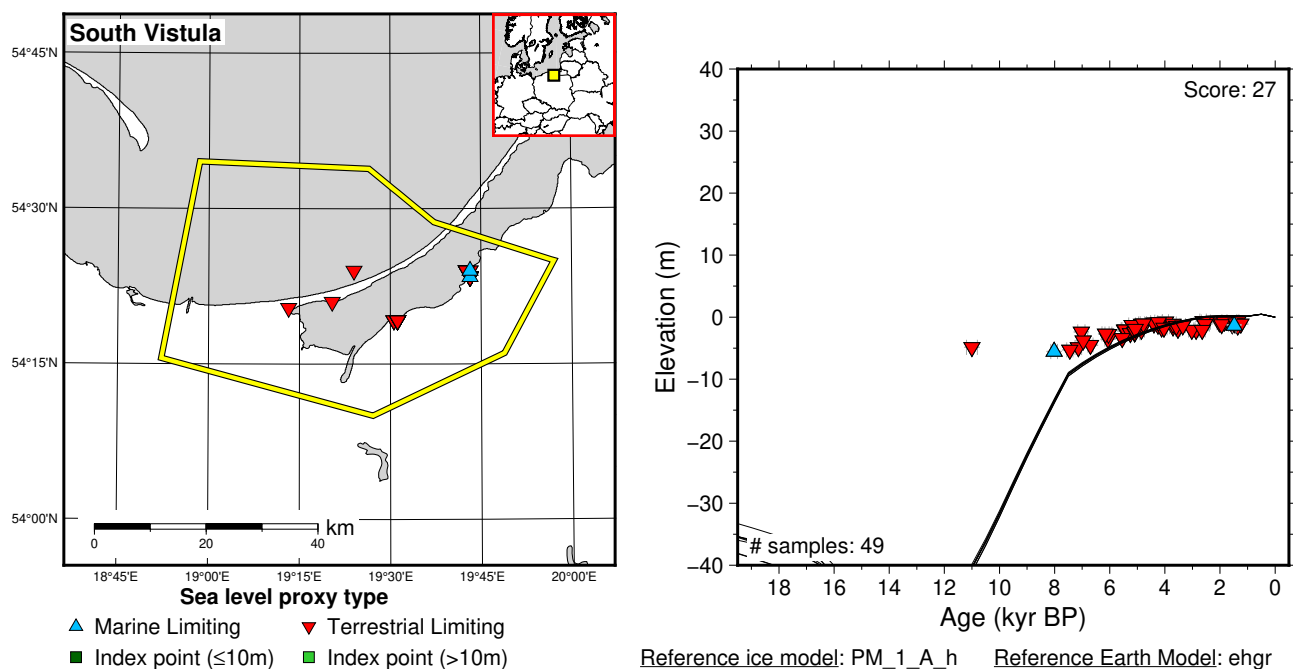


Figure 162: Paleo-sea level and comparison of six models for subregion: South Baltic, location: South Vistula. References: Miotk-Szpiganowicz (2016); Miotk-Szpiganowicz and Uścińowicz (2013); Rosentau et al. (2021).

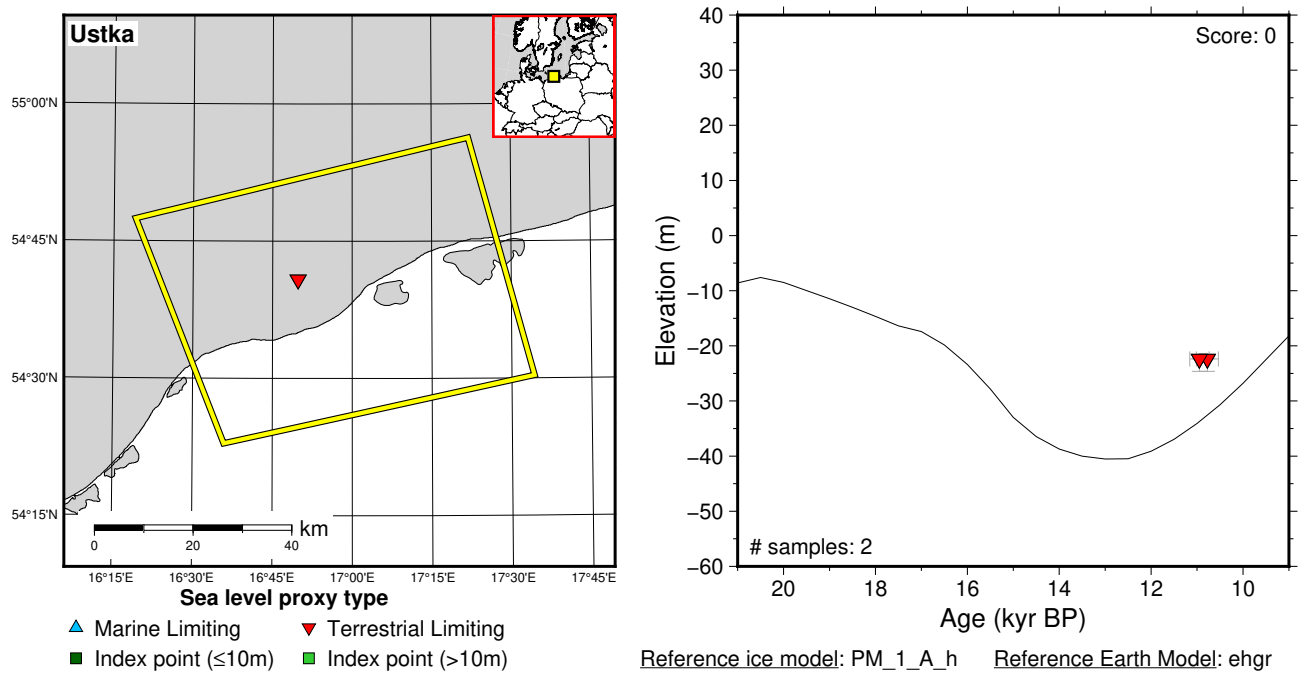


Figure 163: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Ustka. References: Miotk-Szpiganowicz et al. (2009); Rosentau et al. (2021).

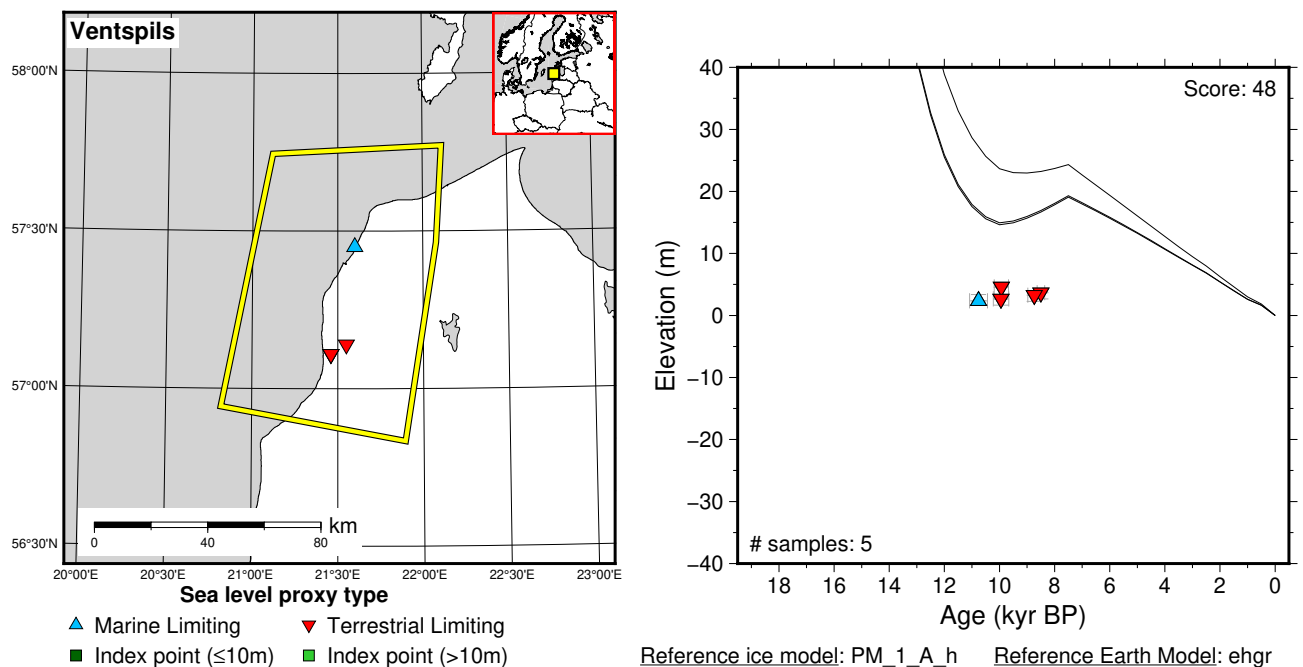


Figure 164: Paleo-sea level and comparison of six models for subregion: South Baltic, location: Ventspils. References: Bērziņš et al. (2016); Murniece et al. (1999); Rosentau et al. (2021); Veinbergs (1996).

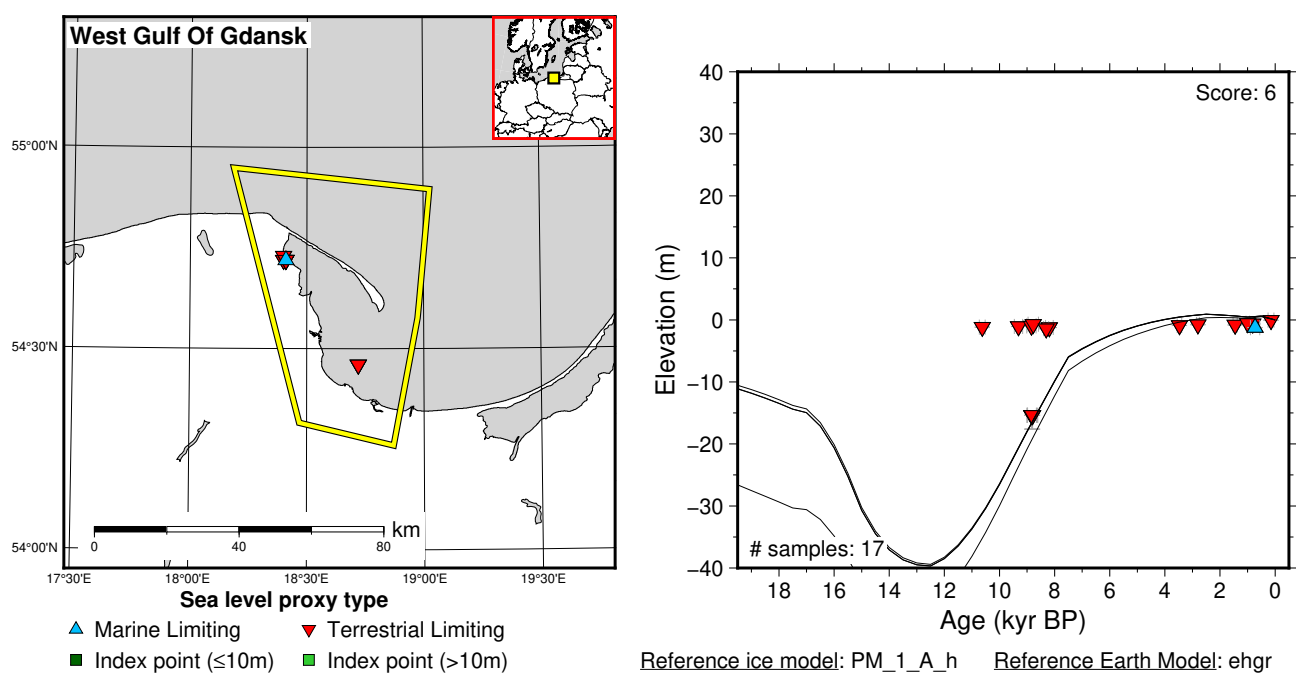


Figure 165: Paleo-sea level and comparison of six models for subregion: South Baltic, location: West Gulf Of Gdansk. References: Rosentau et al. (2021); Uścińowicz et al. (2011, 2013).

6.7 Greenland

6.7.1 Northeast Greenland

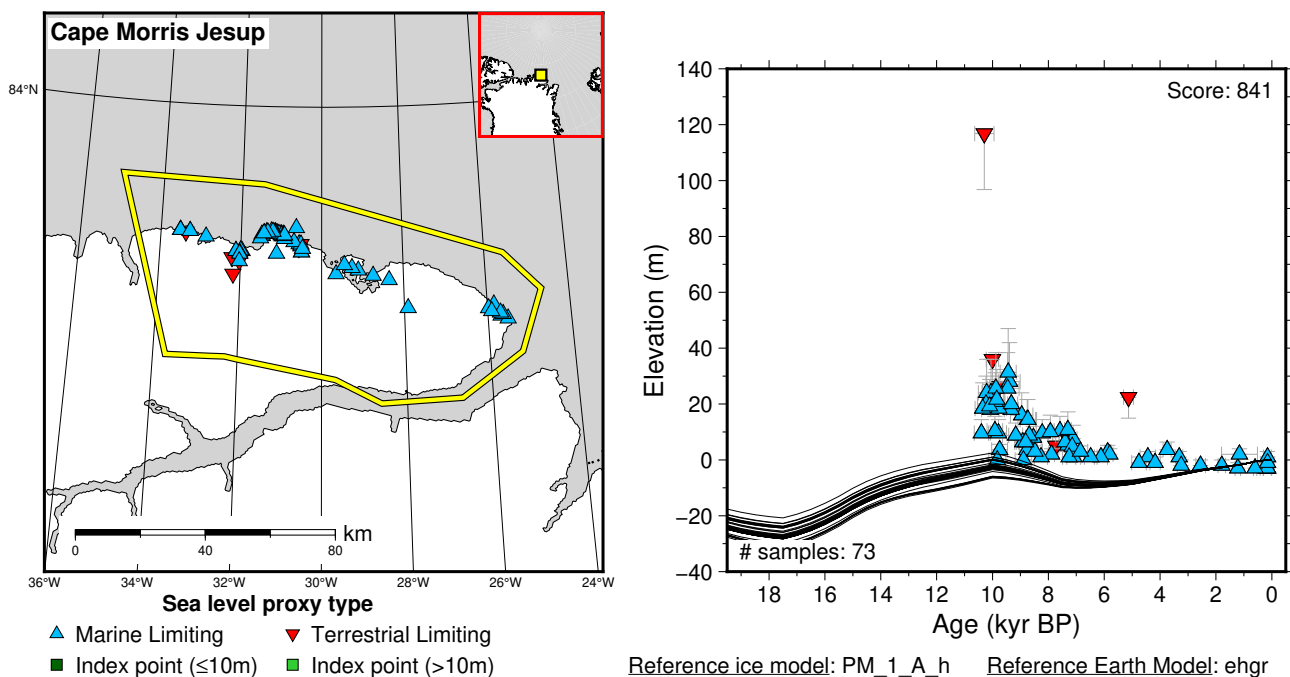


Figure 166: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Cape Morris Jesup. References: Funder (1982); Funder et al. (2011); Ives et al. (1964); Möller et al. (2010).

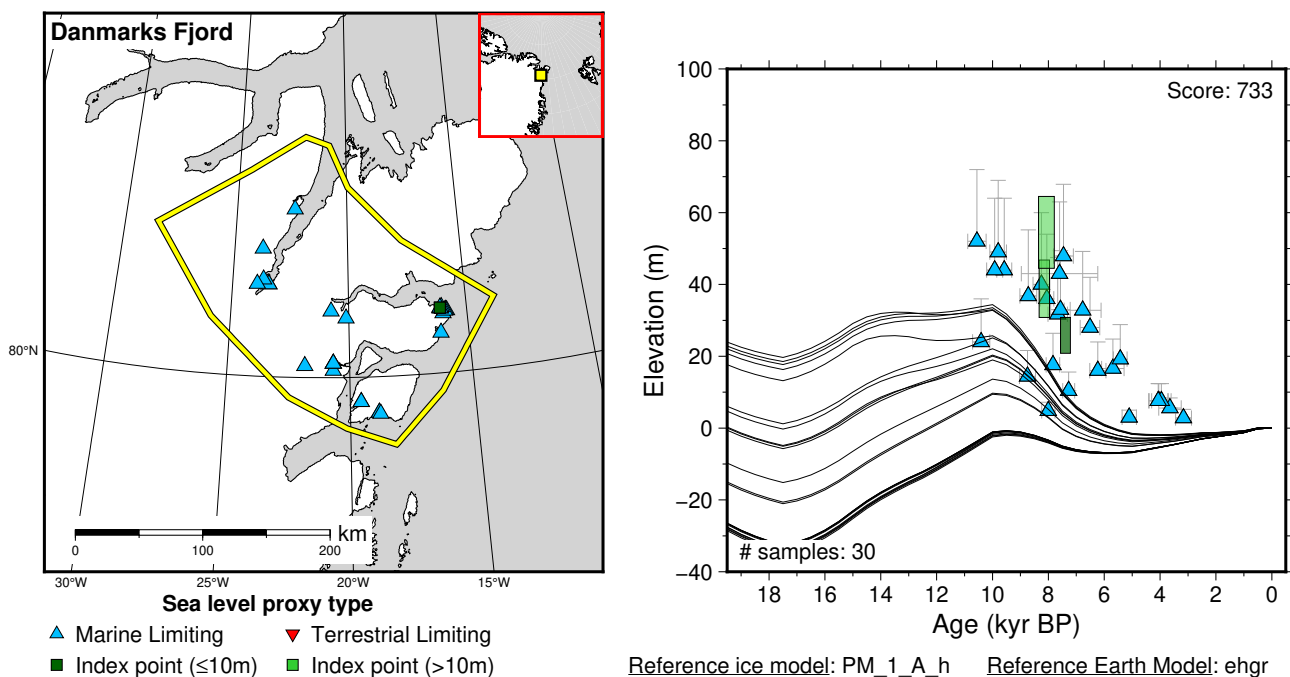


Figure 167: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Danmarks Fjord. References: Bennike and Weidick (2001); Funder (1982); Funder et al. (2011); Hjort (1997); Håkansson (1982); Ives et al. (1964); Tauber (1960, 1961, 1964); Trautman (1963).

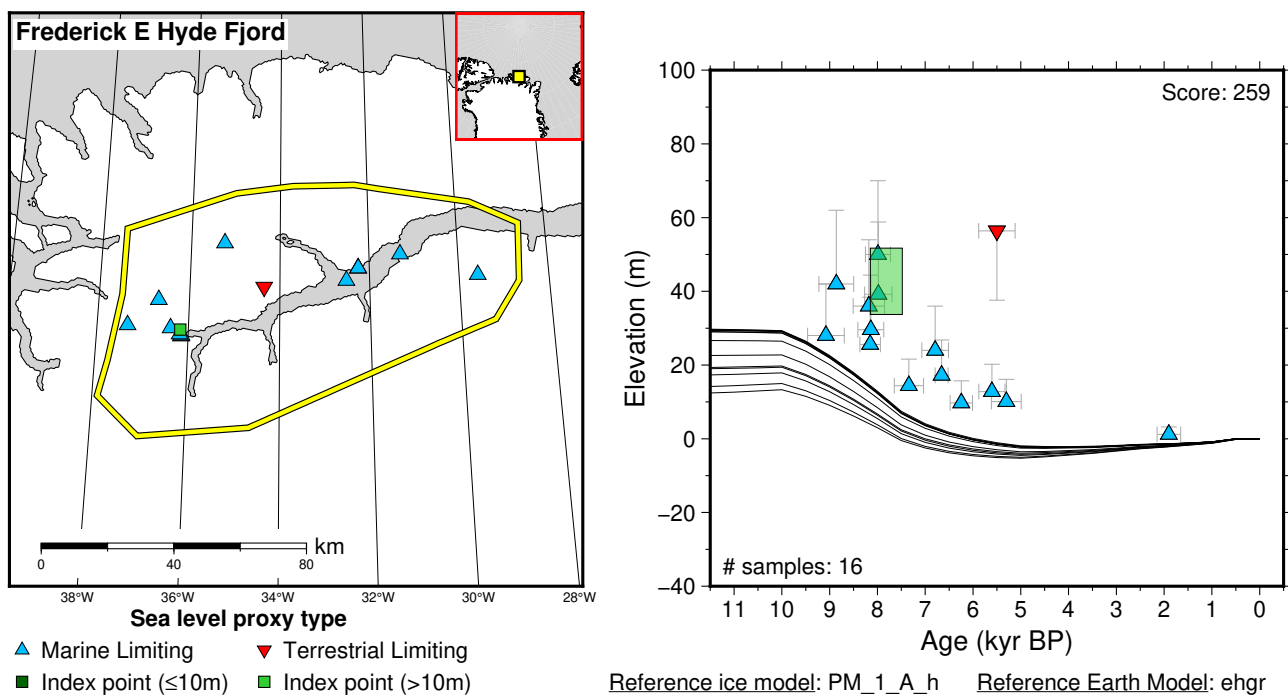


Figure 168: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Frederick E Hyde Fjord. References: Funder (1982); Landvik et al. (2001); Weidick (1972b, 1973, 1977).

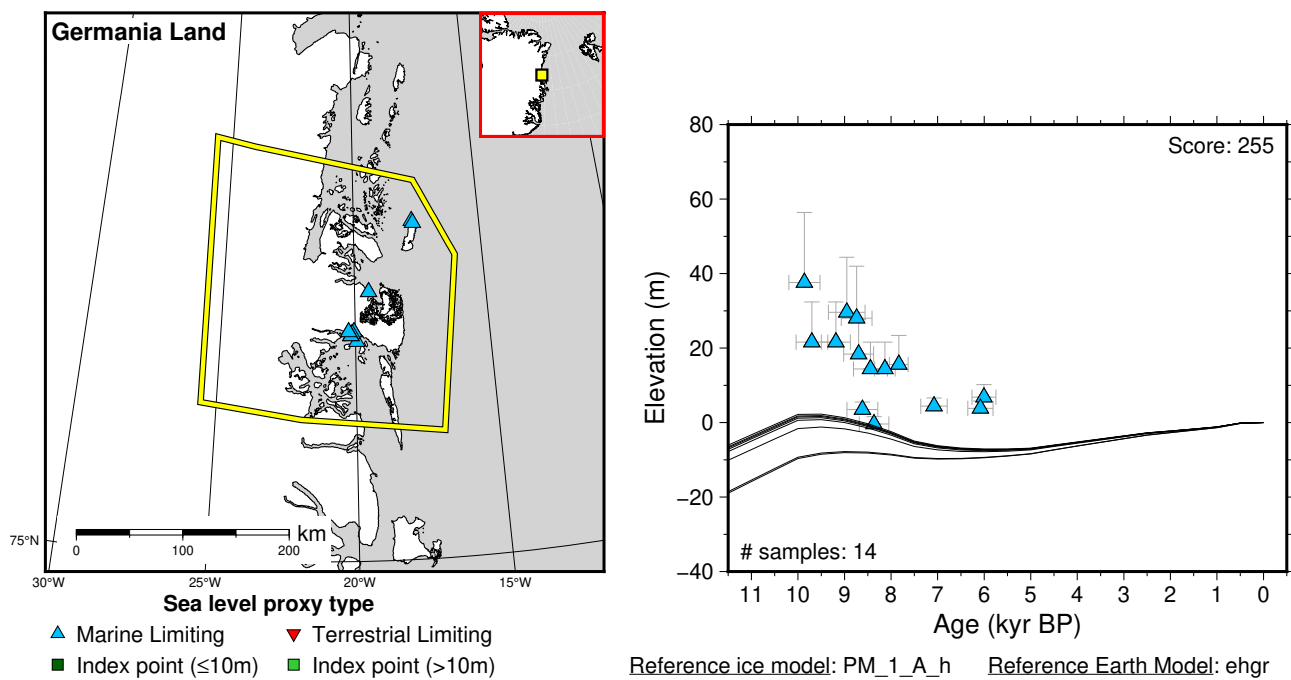


Figure 169: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Germania Land. References: Landvik (1994).

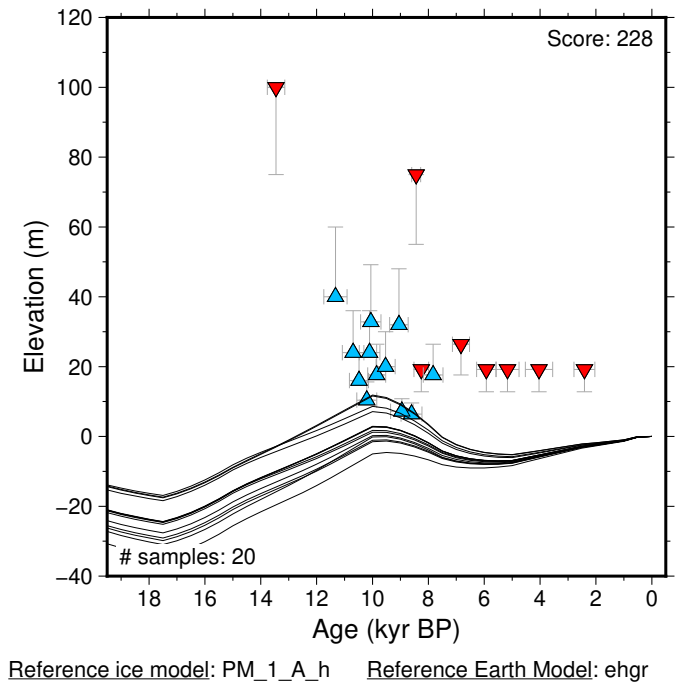
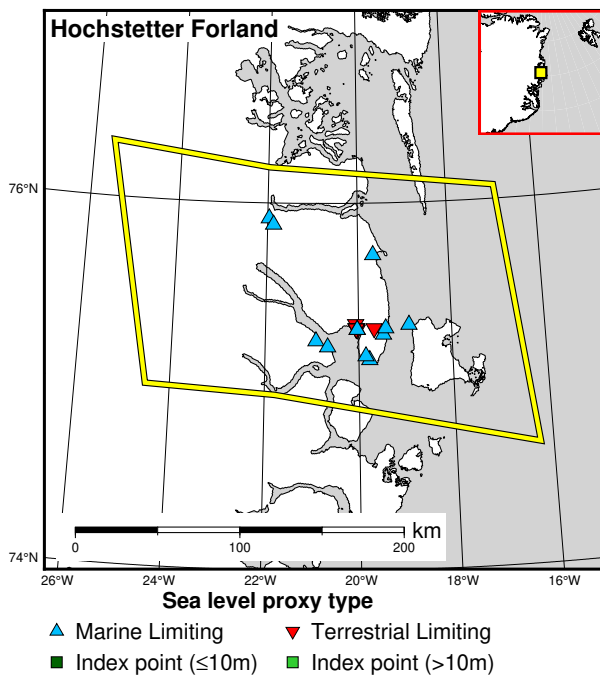


Figure 170: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Hochstetter Forland. References: Björck et al. (1994b); Hjort (1979, 1981); Håkansson (1978, 1981); Weidick (1977).

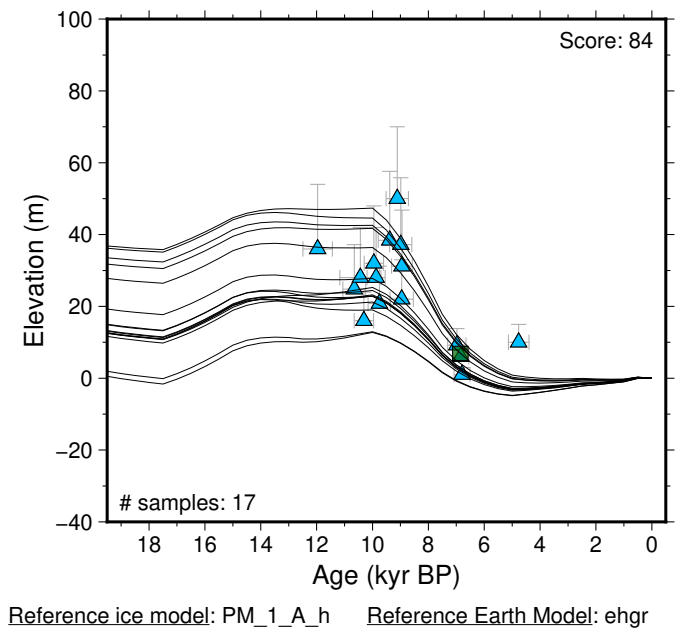
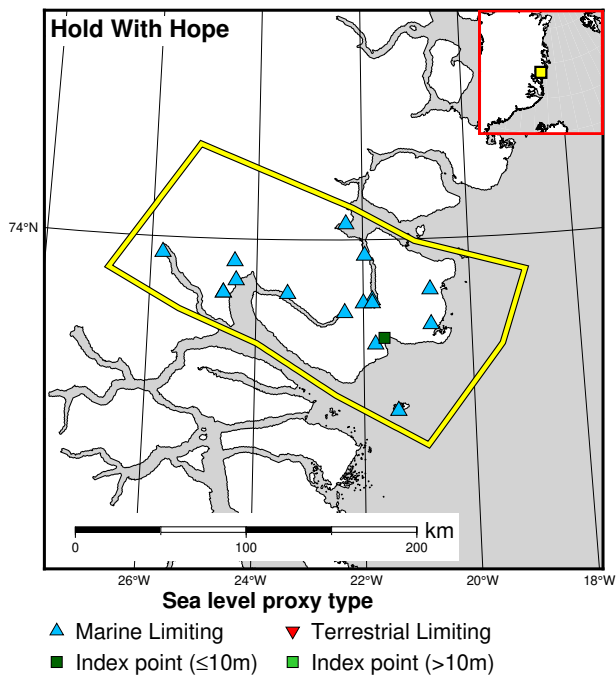


Figure 171: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Hold With Hope. References: Hjort (1979); Hjort and Funder (1974); Håkansson (1975); Weidick (1976, 1977).

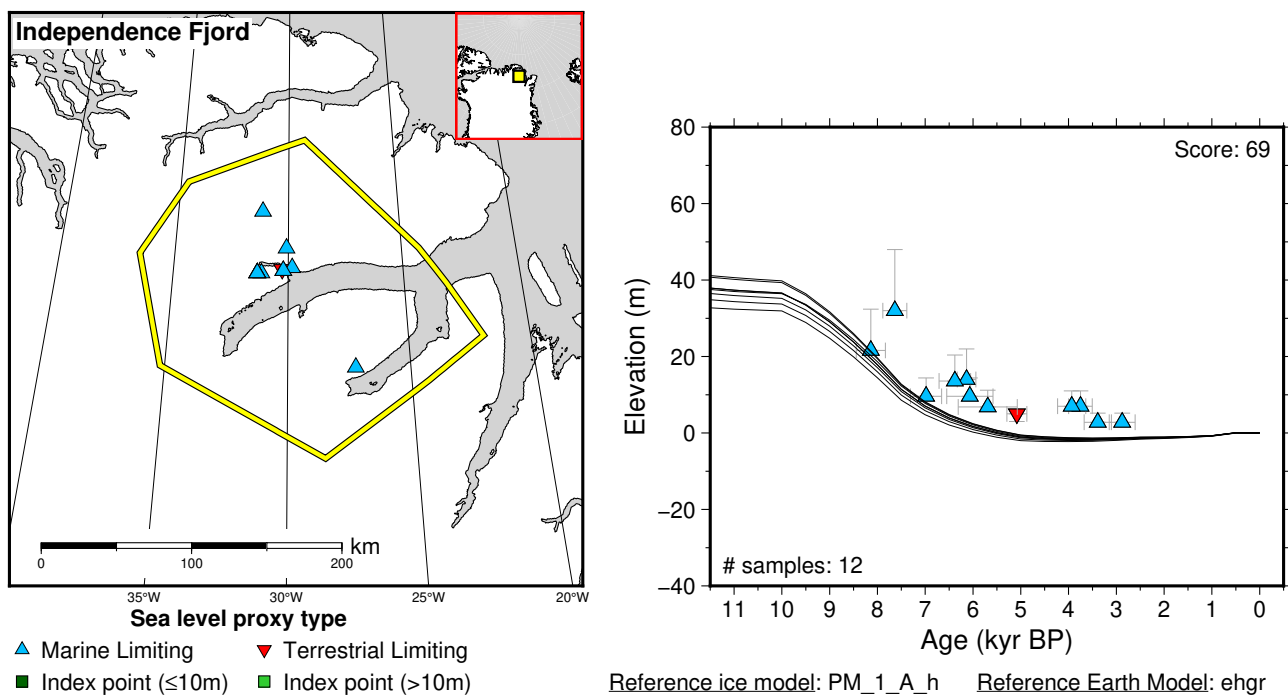


Figure 172: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Independence Fjord. References: Bennike (2002); Funder (1982); Funder and Abrahamsen (1988); Funder et al. (2011); Ives et al. (1964); Rubin and Alexander (1960); Tauber (1966); Weidick (1977).

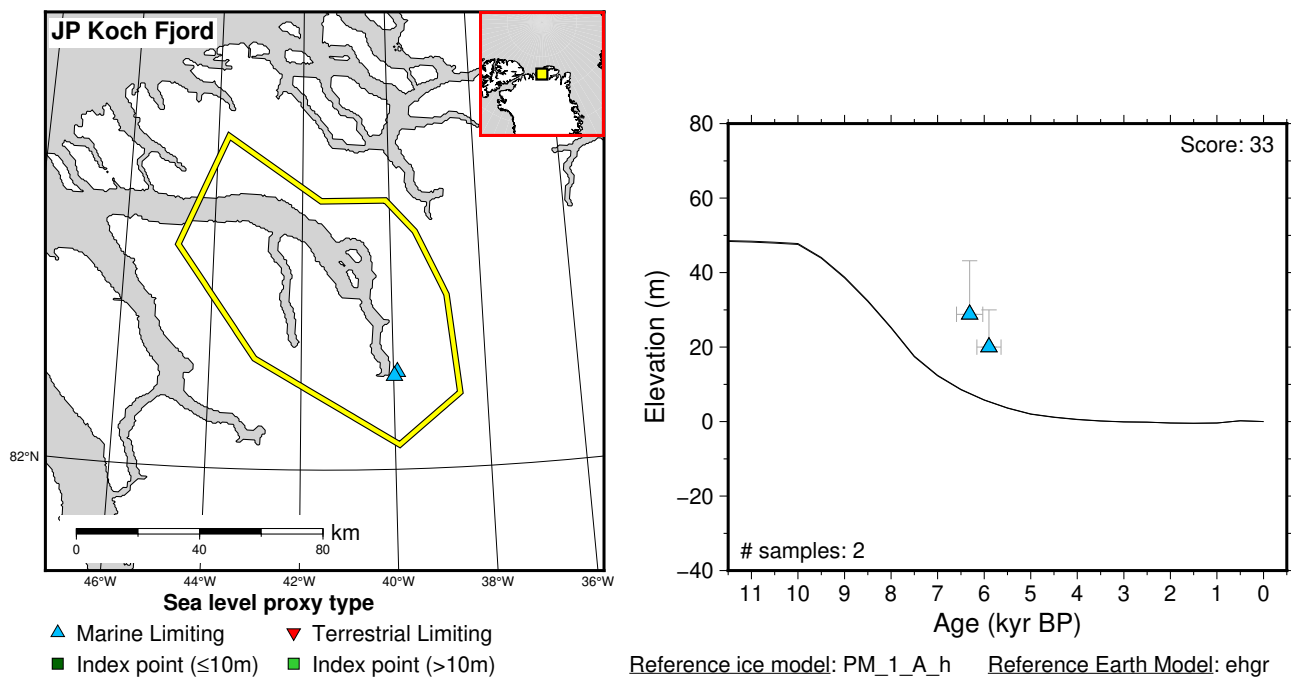


Figure 173: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: JP Koch Fjord. References: Landvik et al. (2001).

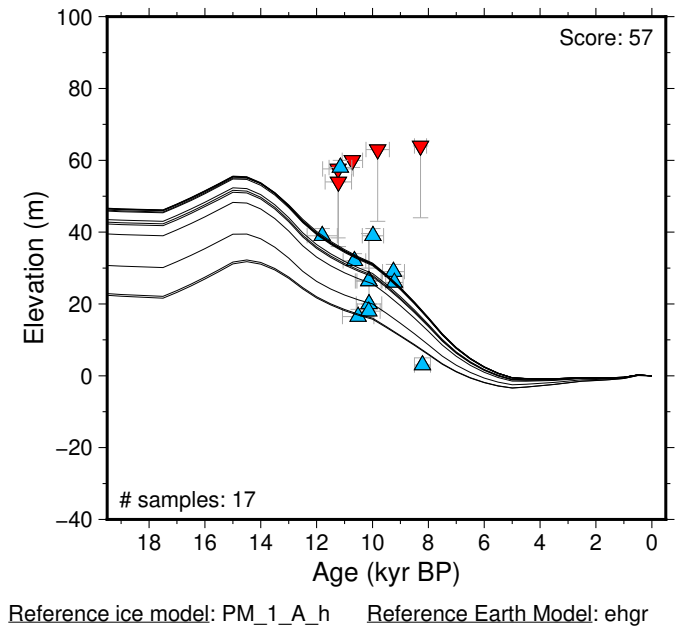
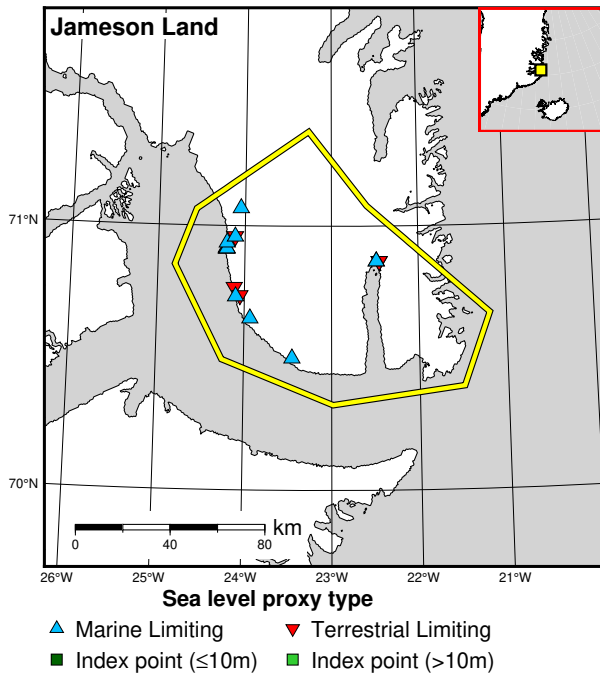


Figure 174: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Jameson Land. References: Björck et al. (1994a); Funder (1971, 1972, 1973, 1978, 1990a); Funder and Hansen (1996); Hjort (1979); Ingólfsson et al. (1994); Weidick (1972b, 1973, 1974).

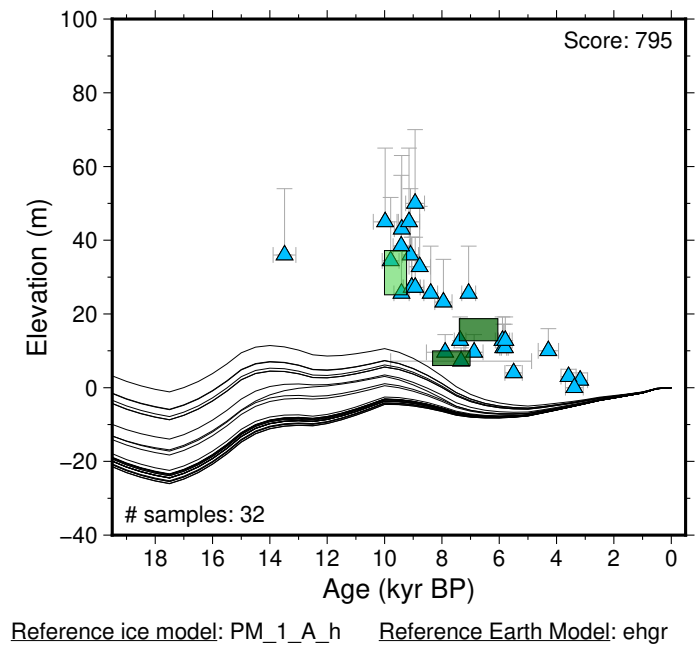
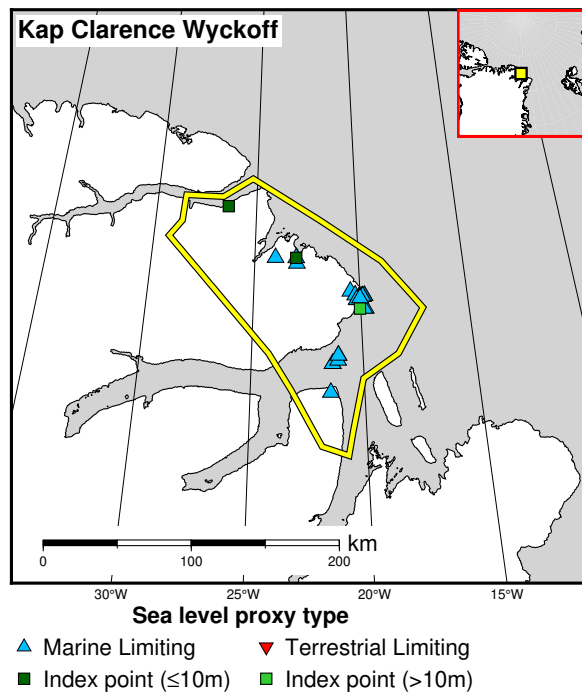


Figure 175: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Kap Clarence Wyckoff. References: Funder (1982); Funder and Abrahamsen (1988); Funder et al. (2011); Ives et al. (1964); Tauber (1964).

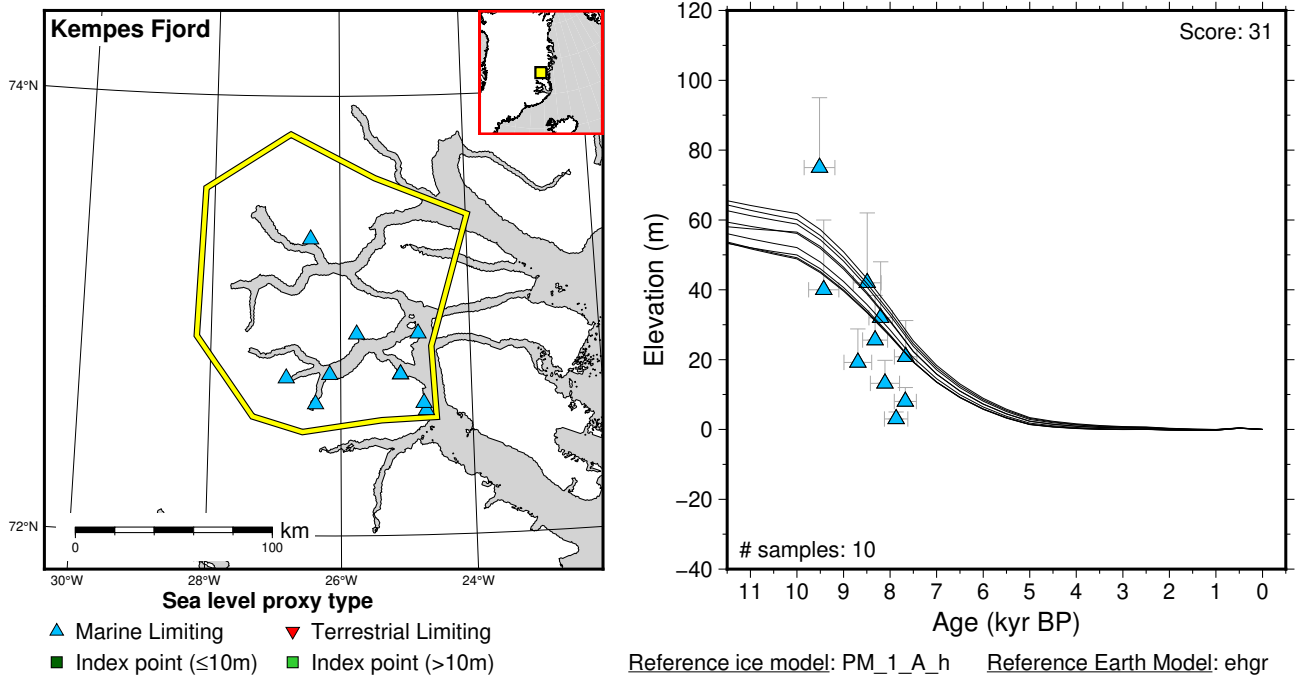


Figure 176: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Kempes Fjord. References: Hjort (1979); Hjort and Funder (1974); Håkansson (1973, 1974, 1976); Weidick (1977).

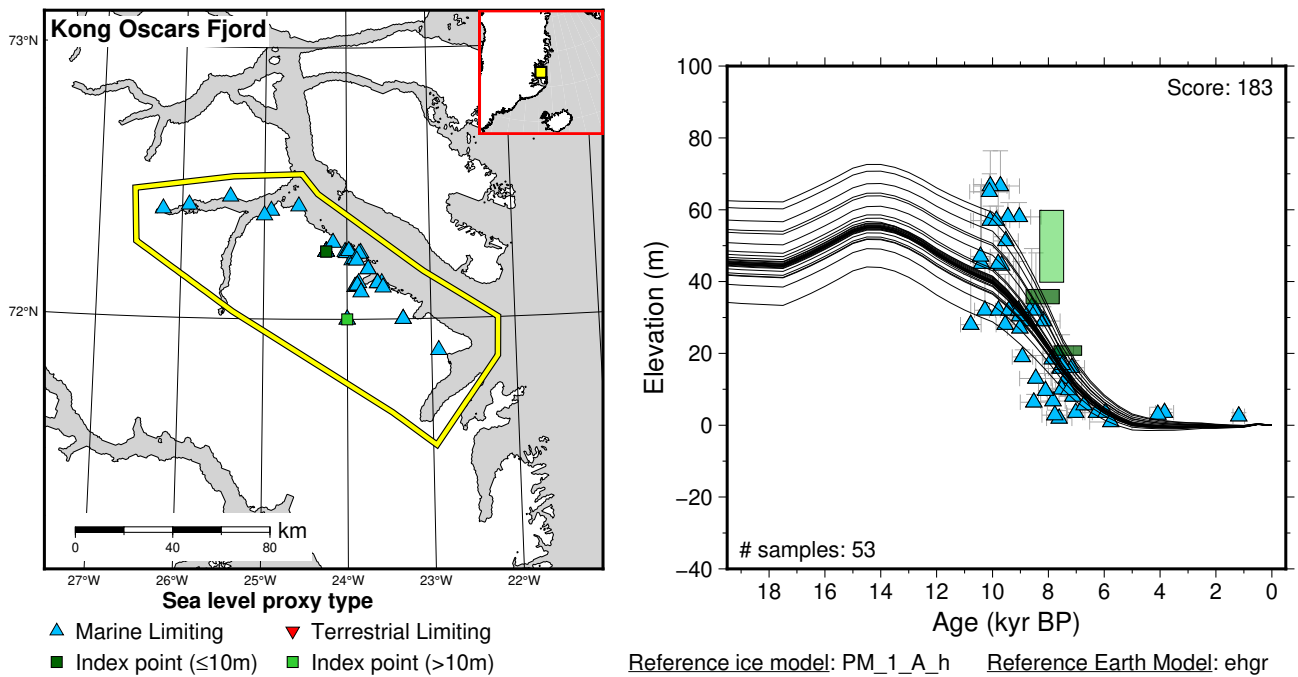


Figure 177: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Kong Oscars Fjord. References: Hjort (1979); Hjort and Funder (1974); Håkansson (1972, 1973, 1974, 1975, 1976); Lasca (1966); Trautman (1963); Washburn and Stuiver (1962).

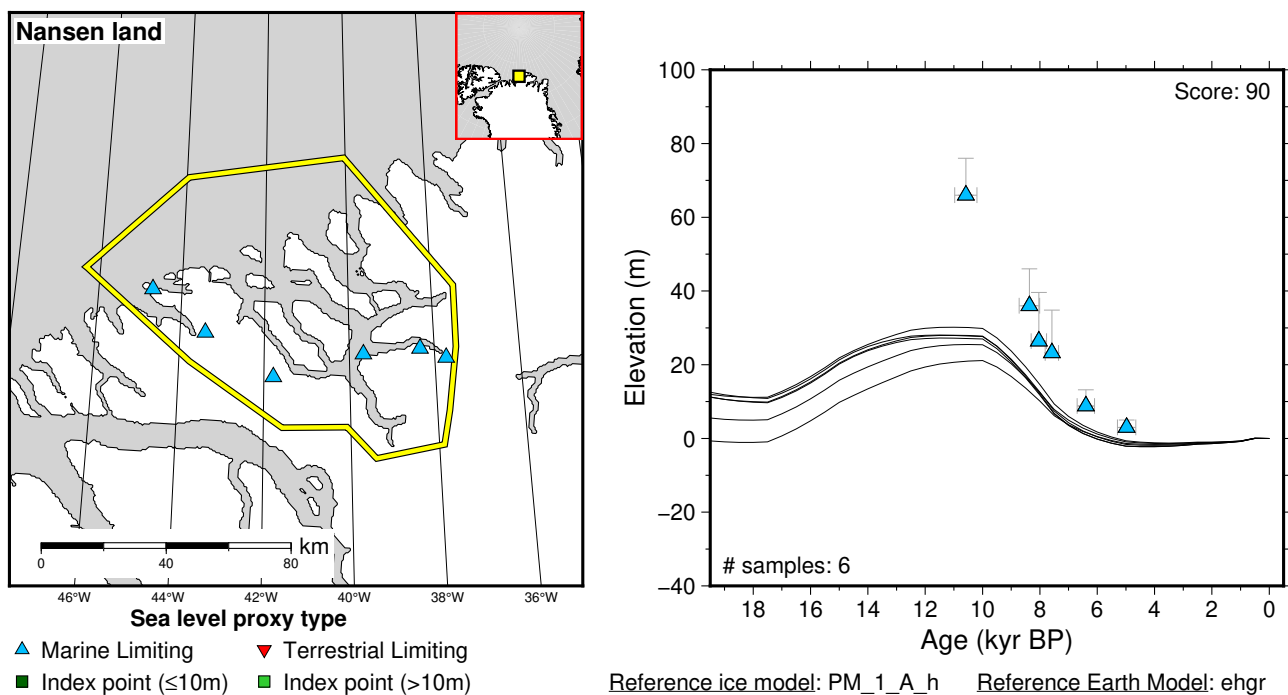


Figure 178: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Nansen land. References: Bennike and Kelly (1987); Kelly and Bennike (1985, 1992); Landvik et al. (2001); Weidick (1973).

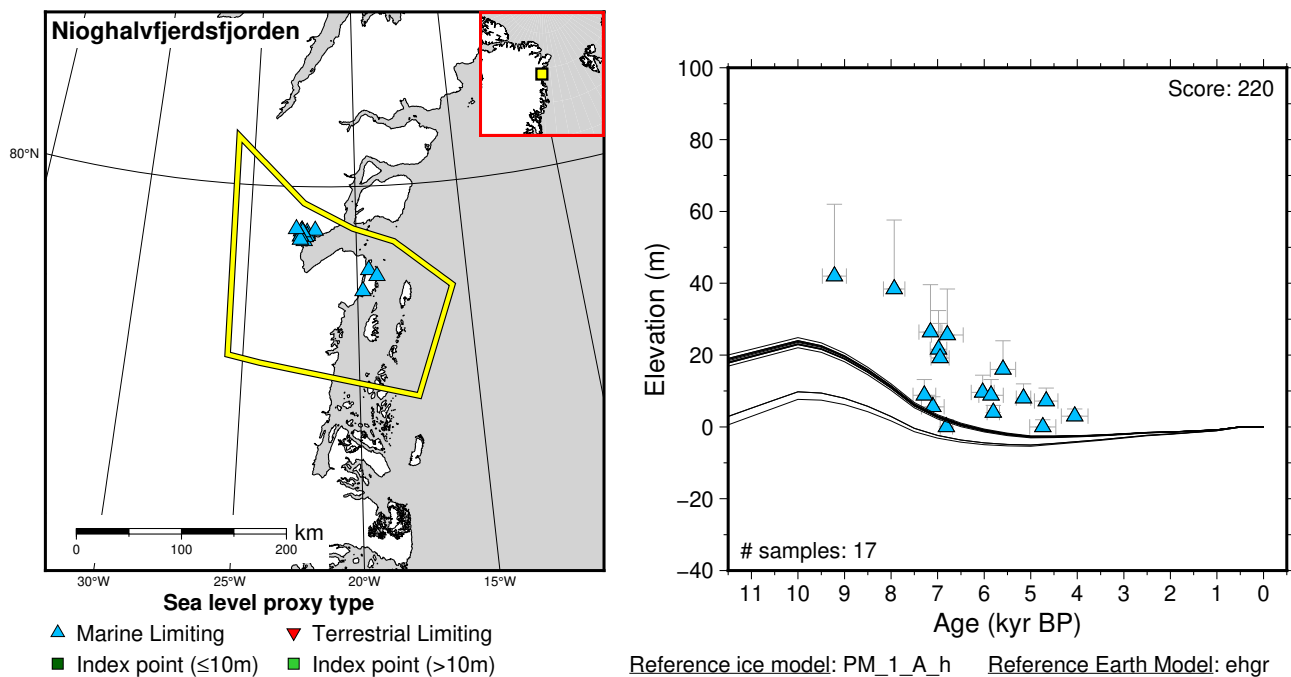


Figure 179: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Nioghalvfjærdsfjorden. References: Bennike and Weidick (2001).

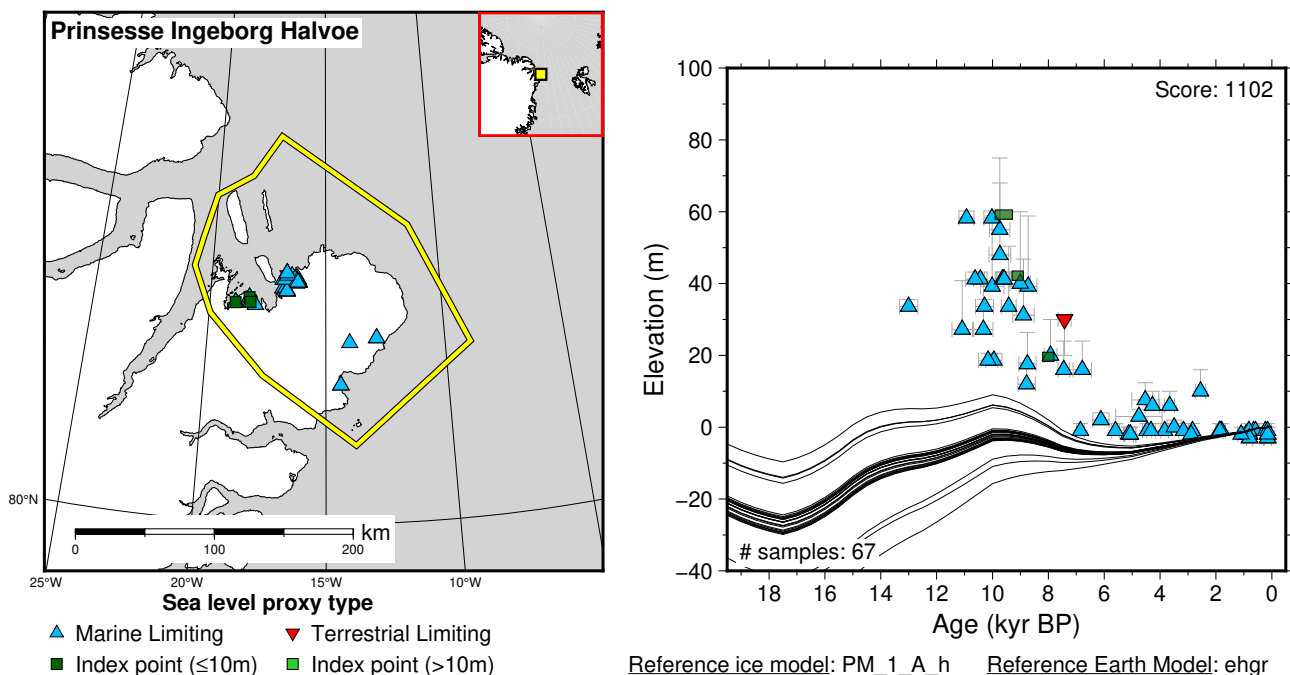


Figure 180: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Prinsesse Ingeborg Halvøe. References: Bennike (1997); Funder (1982); Funder and Abrahamsen (1988); Funder et al. (2011); Hjort (1997); Håkansson (1987); Ives et al. (1964); Strunk et al. (2018); Tauber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

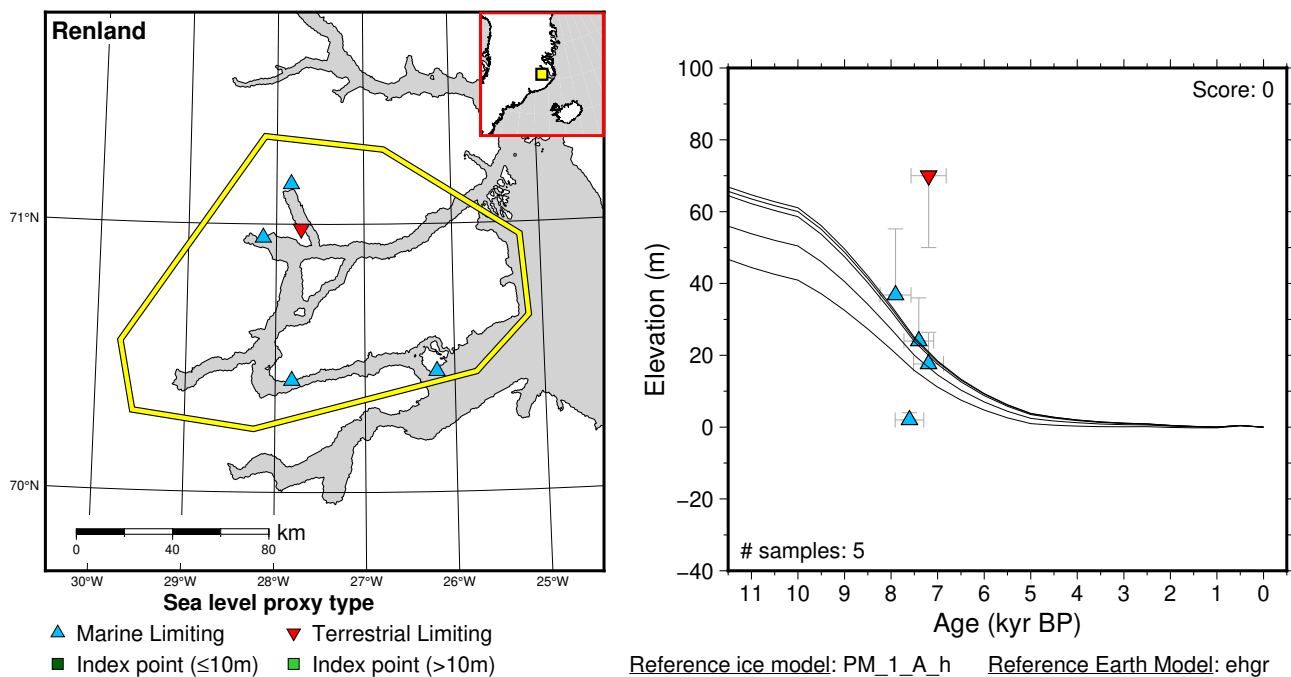


Figure 181: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Renland. References: Funder (1971); Hjort and Funder (1974).

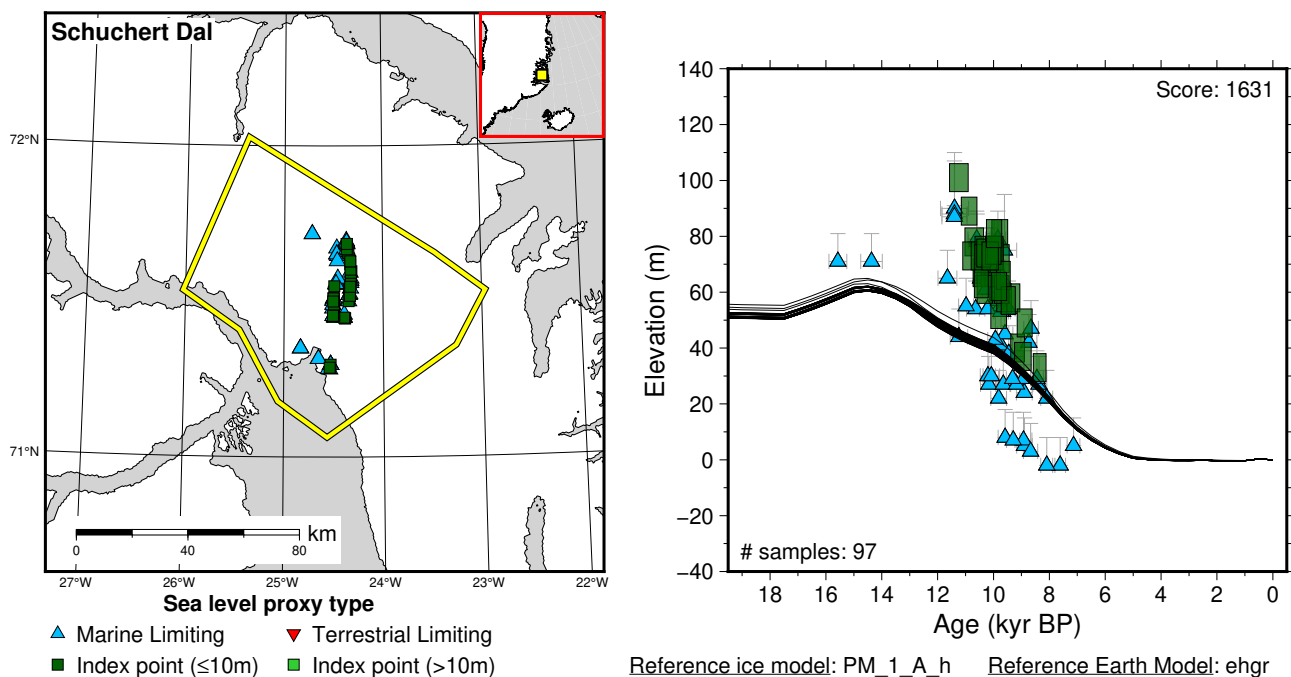


Figure 182: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Schuchert Dal. References: Funder (1972, 1978); Funder and Hansen (1996); Hall et al. (2008, 2010); Hjort (1979); Street (1977); Weidick (1972b).

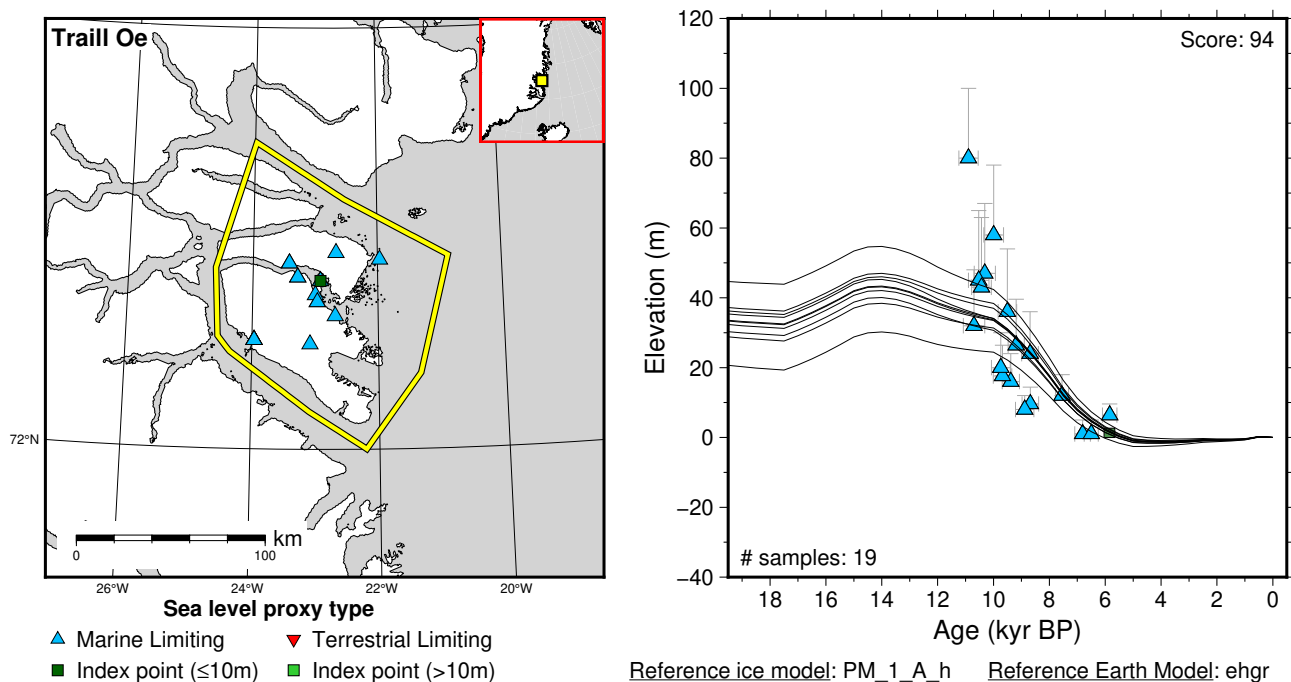


Figure 183: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Traill Oe. References: Hjort (1973, 1979); Hjort and Funder (1974); Håkansson (1972, 1973, 1974).

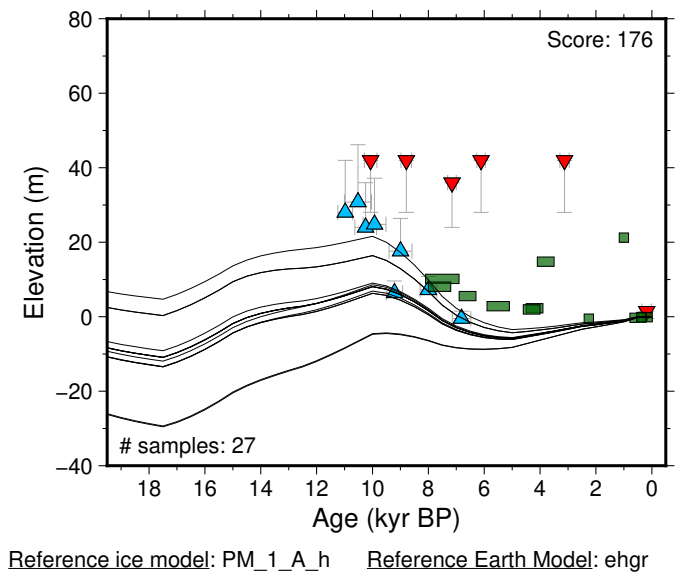
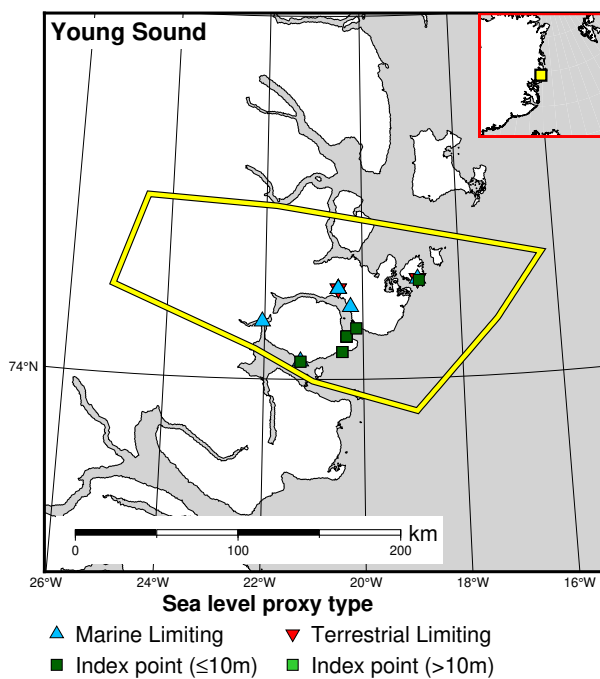


Figure 184: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Young Sound. References: Bennike and Wagner (2012); Christiansen et al. (2002); Hjort (1979); Pedersen et al. (2011); Weidick (1977).

6.7.2 Northwest Greenland

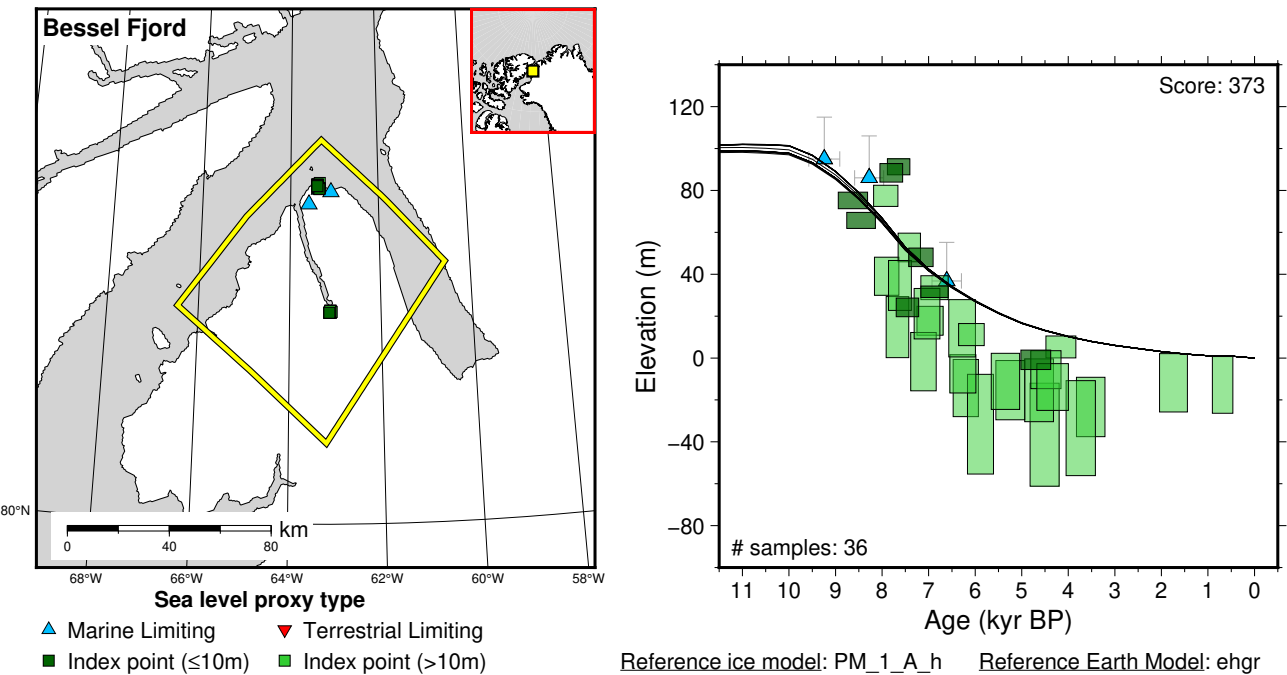


Figure 185: Paleo-sea level and comparison of six models for subregion: Northwest Greenland, location: Bessel Fjord. References: Bennike (2002); Blake (1987); Glueder et al. (2022); McNeely and Brennan (2005); Weidick (1977).

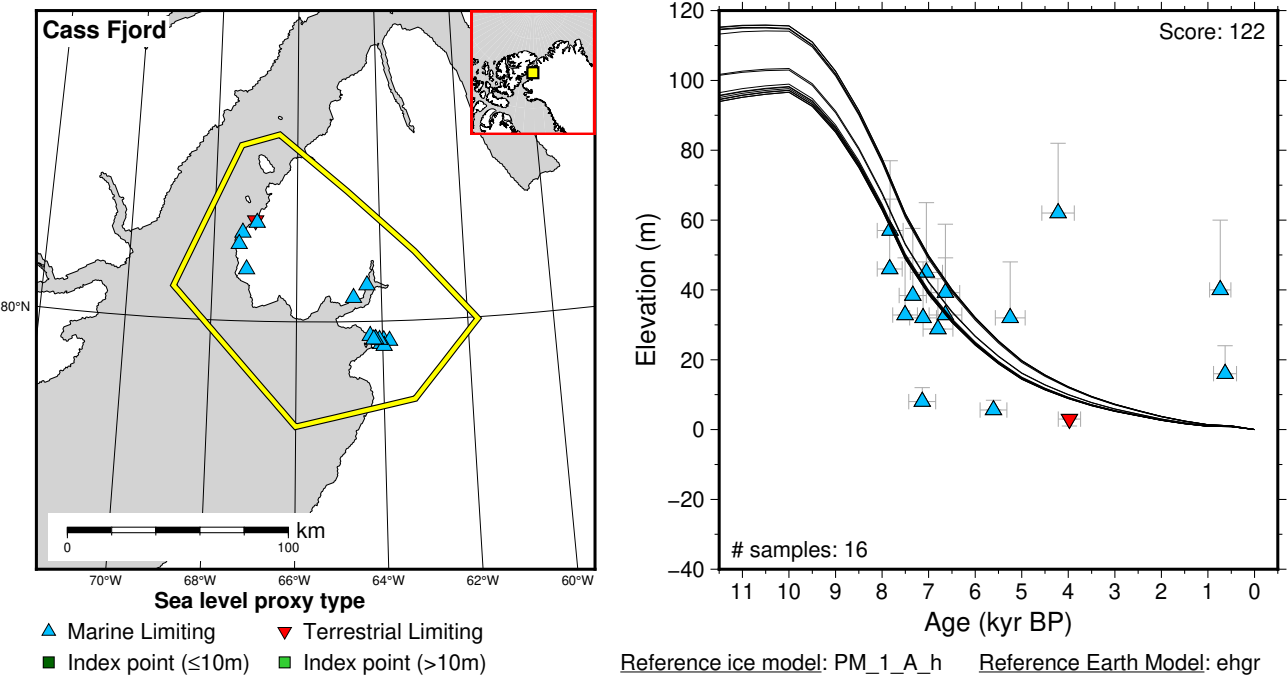


Figure 186: Paleo-sea level and comparison of six models for subregion: Northwest Greenland, location: Cass Fjord. References: Bennike (2002); Blake (1987); McNeely and Brennan (2005); Weidick (1977).

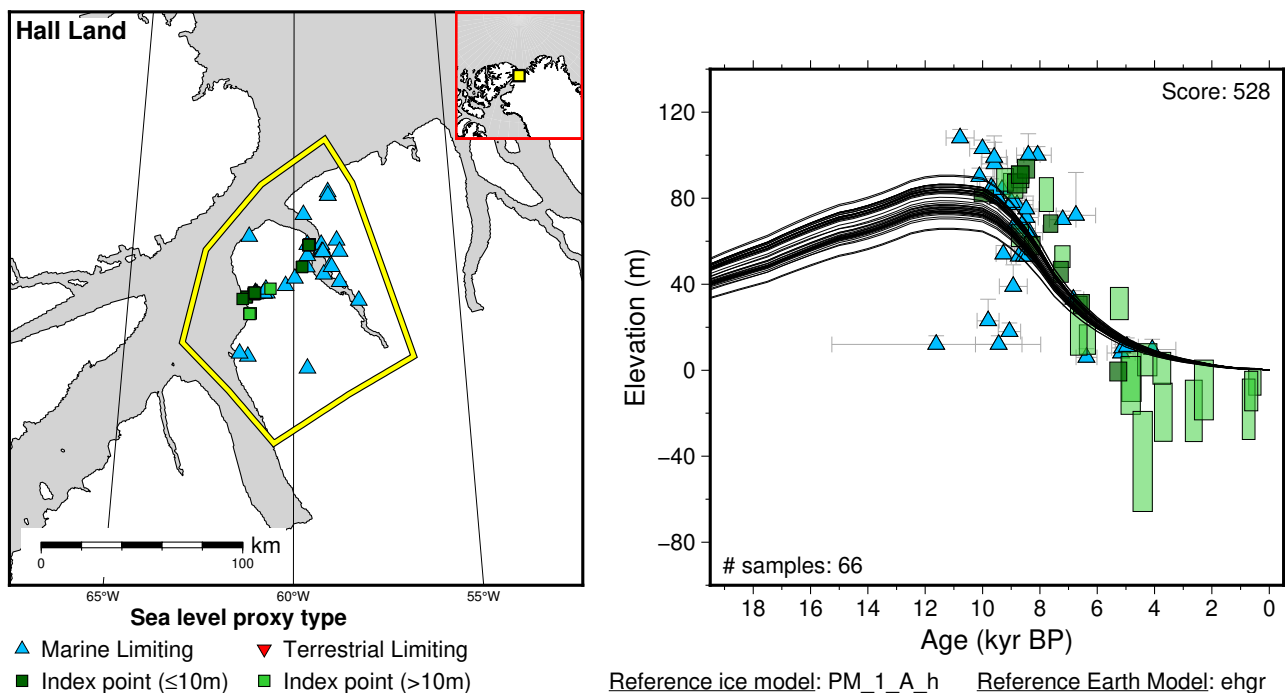


Figure 187: Paleo-sea level and comparison of six models for subregion: Northwest Greenland, location: Hall Land. References: Bennike and Kelly (1987); England (1985); Glueder et al. (2022); Kelly and Bennike (1985, 1992); McNeely and Brennan (2005); McNeely and McCuaig (1991); Rubin and Alexander (1960).

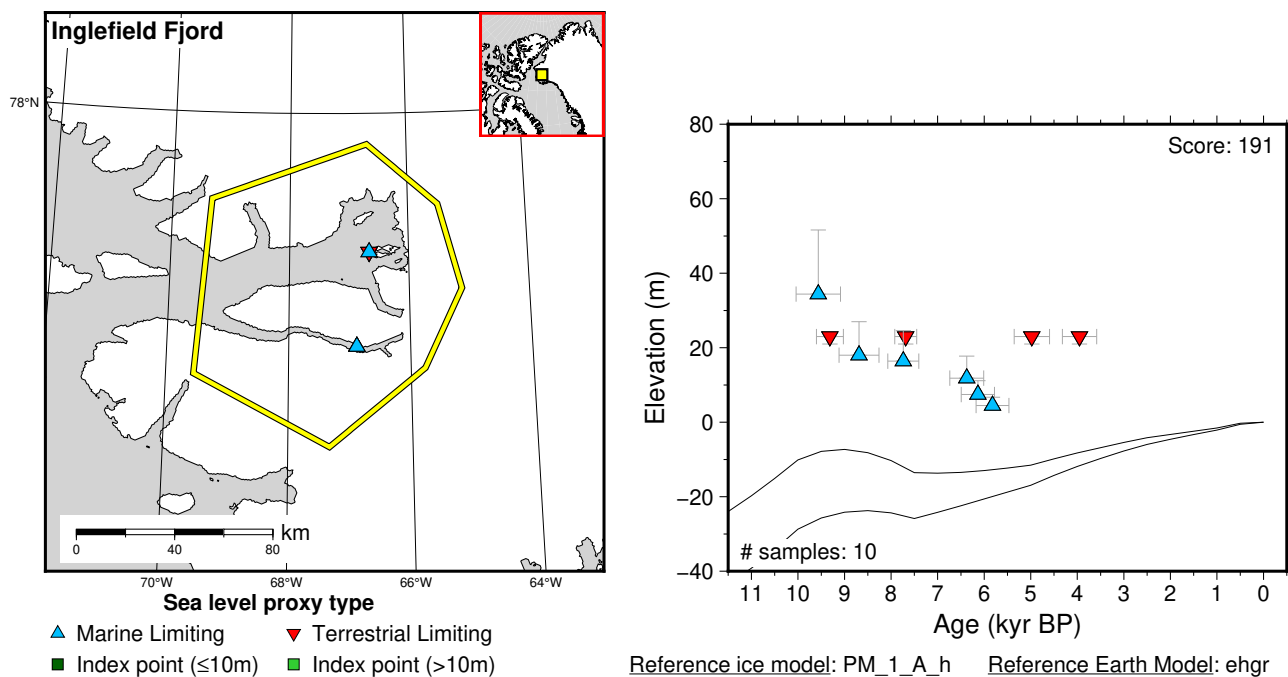


Figure 188: Paleo-sea level and comparison of six models for subregion: Northwest Greenland, location: Ingfield Fjord. References: Blake et al. (1996); Fredskild (1985); Weidick (1976).

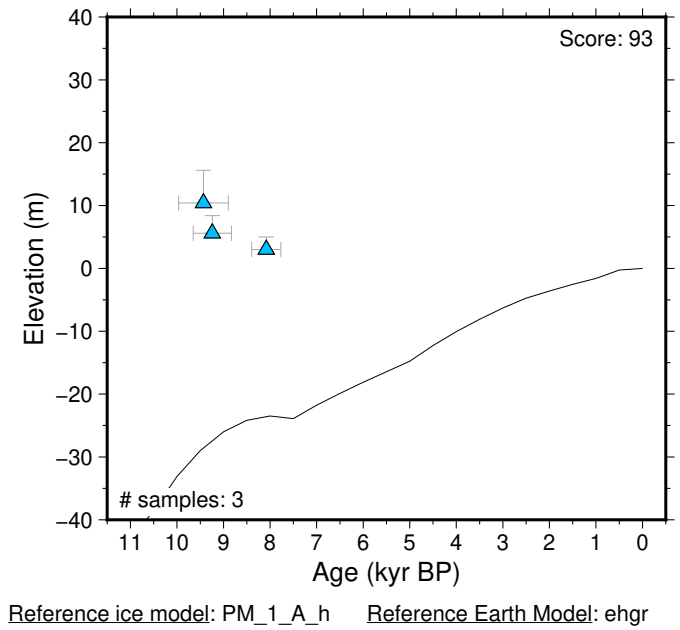
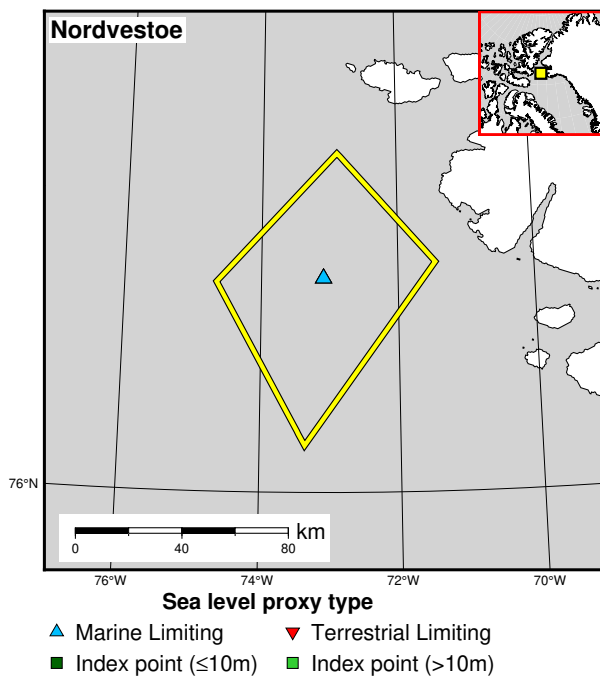


Figure 189: Paleo-sea level and comparison of six models for subregion: Northwest Greenland, location: Nordvestoe. References: Kelly et al. (1999).

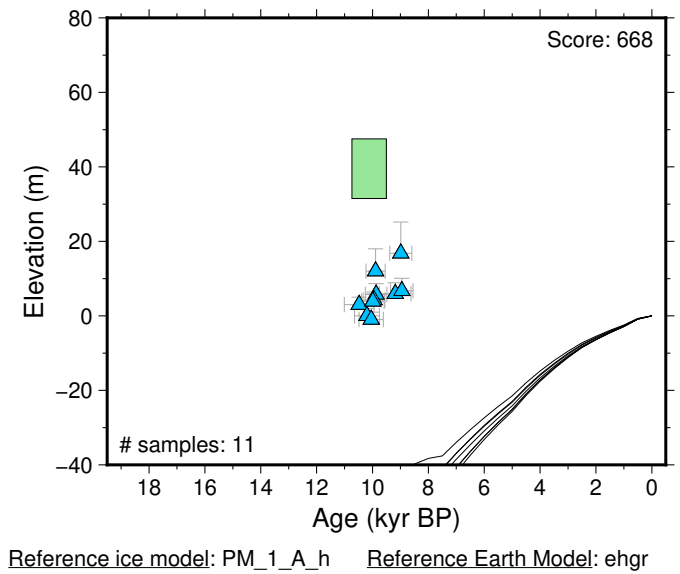
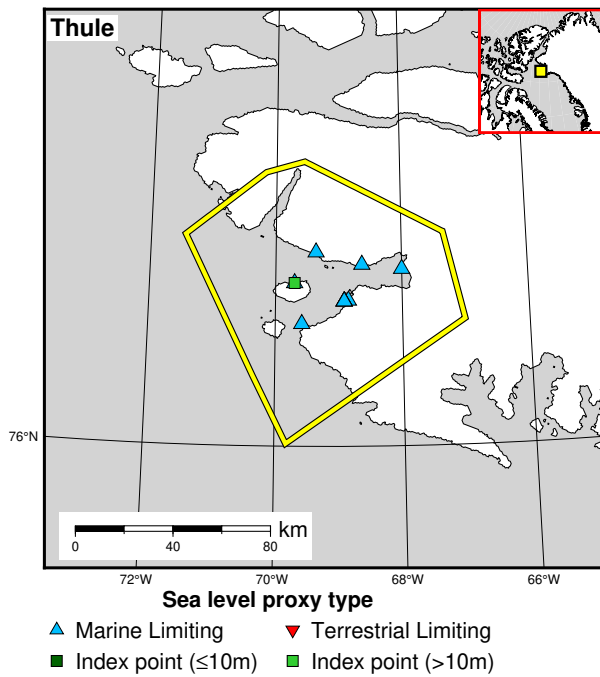


Figure 190: Paleo-sea level and comparison of six models for subregion: Northwest Greenland, location: Thule. References: Funder (1990b); Kelly et al. (1999).

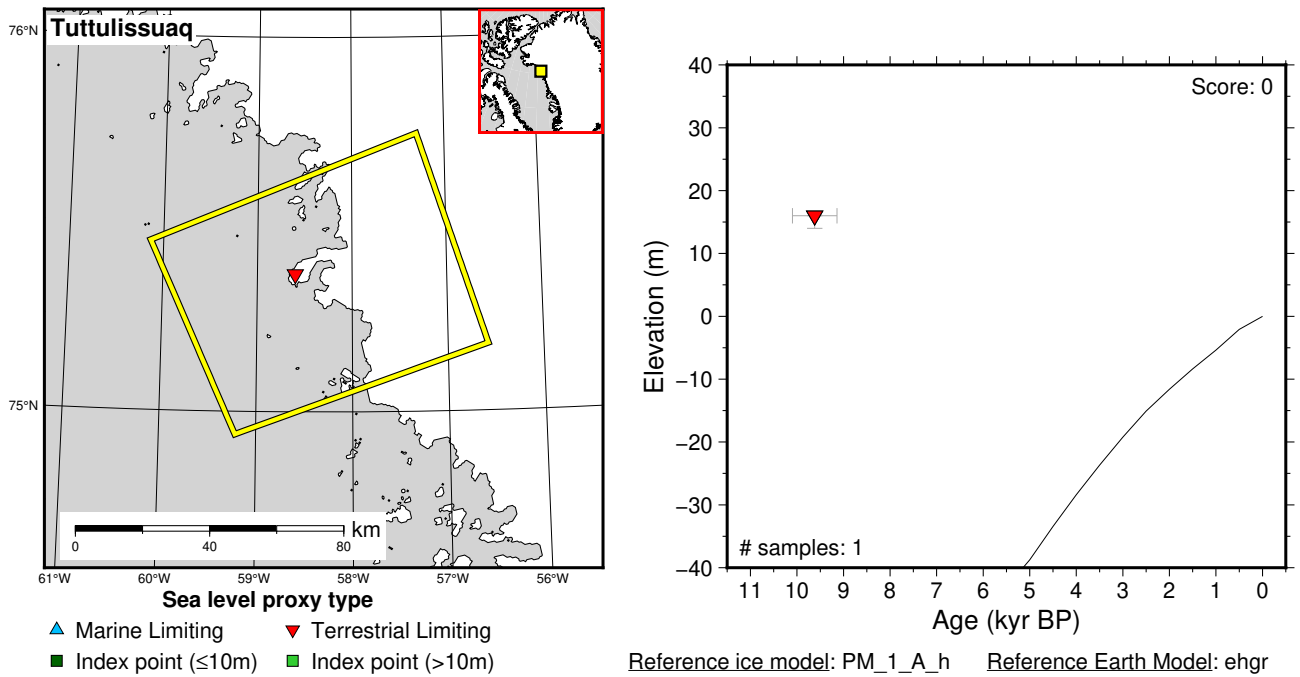


Figure 191: Paleo-sea level and comparison of six models for subregion: Northwest Greenland, location: Tuttulissuaq. References: Blake (1987); Fredskild (1985).

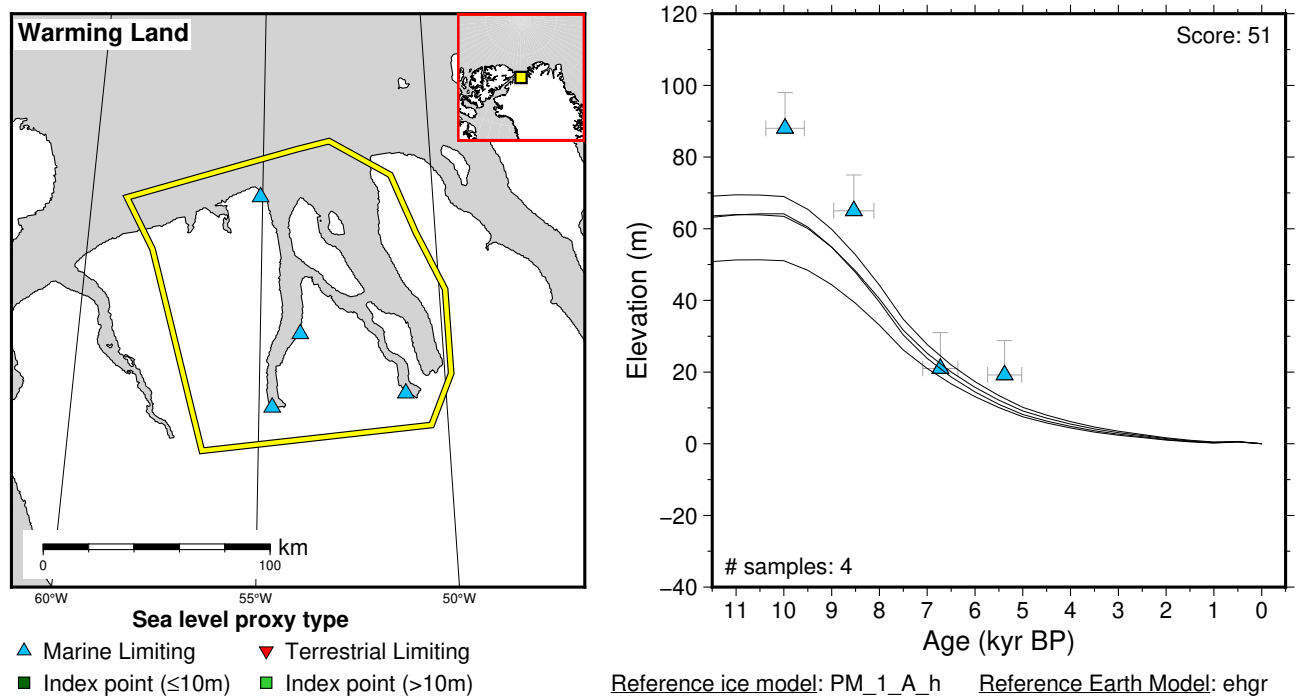
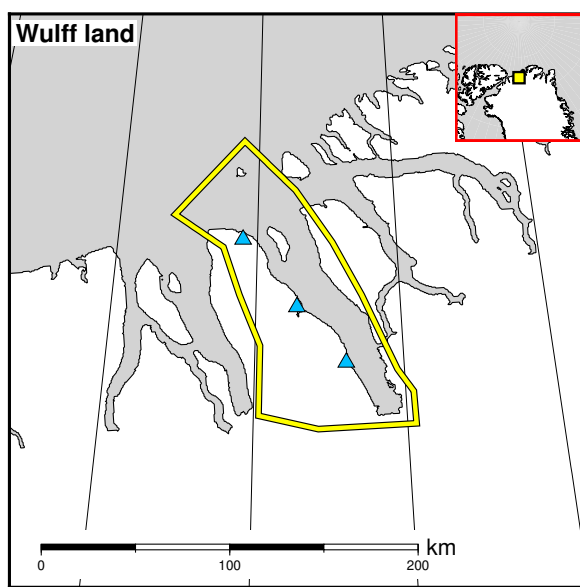


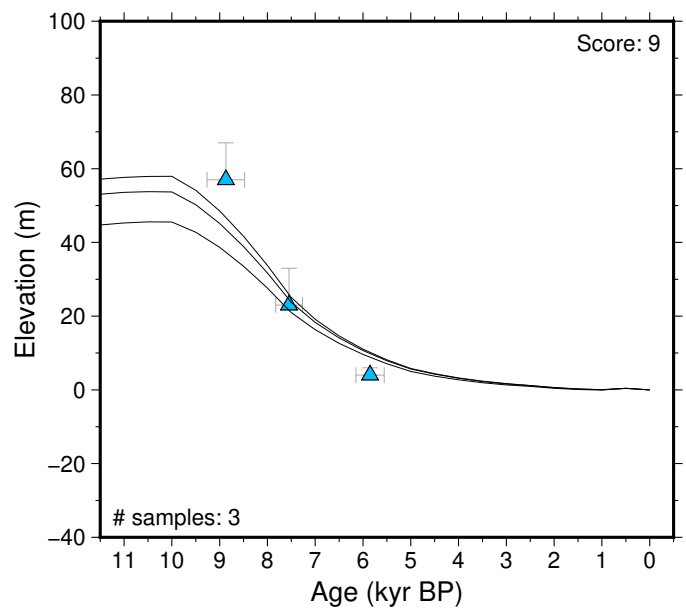
Figure 192: Paleo-sea level and comparison of six models for subregion: Northwest Greenland, location: Warming Land. References: Bennike and Kelly (1987); Kelly and Bennike (1985, 1992).



Sea level proxy type

▲ Marine Limiting ▼ Terrestrial Limiting

■ Index point ($\leq 10\text{m}$) ■ Index point ($> 10\text{m}$)



Reference ice model: PM_1_A_h Reference Earth Model: ehgr

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

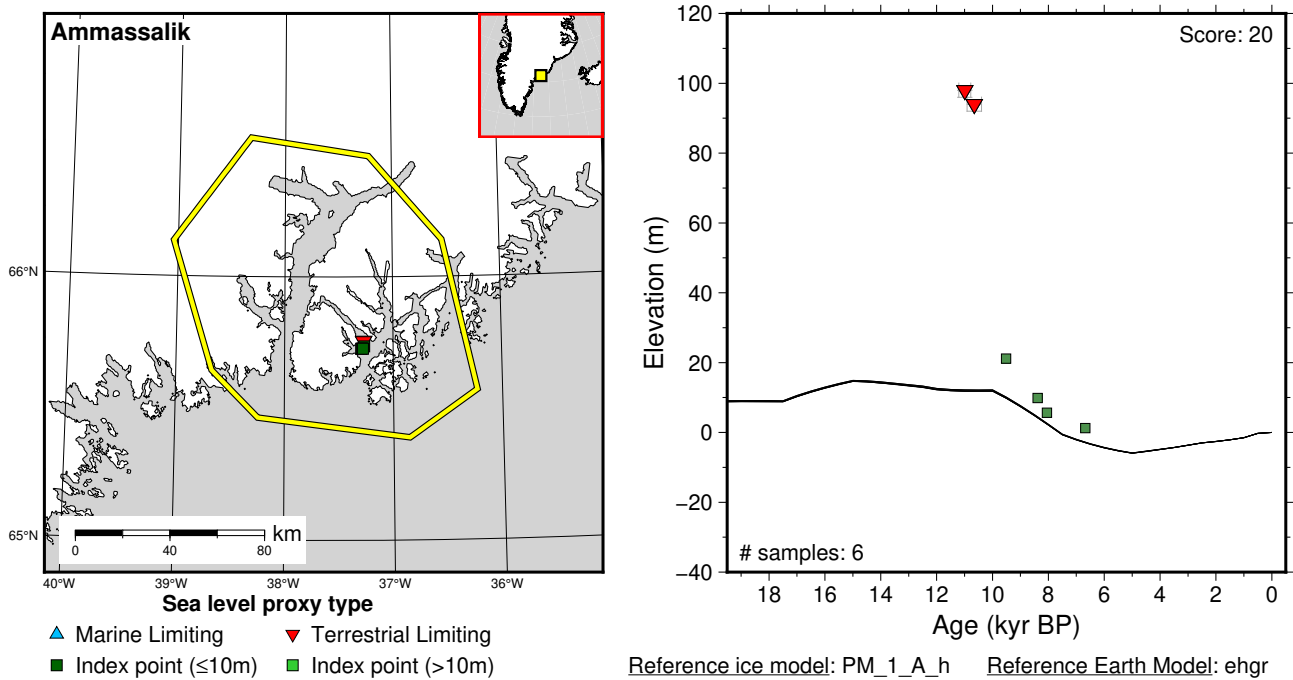


Figure 194: Paleo-sea level and comparison of six models for subregion: Southeast Greenland, location: Ammassalik. References: Long et al. (2008, 2011).

6.7.4 Southwest Greenland

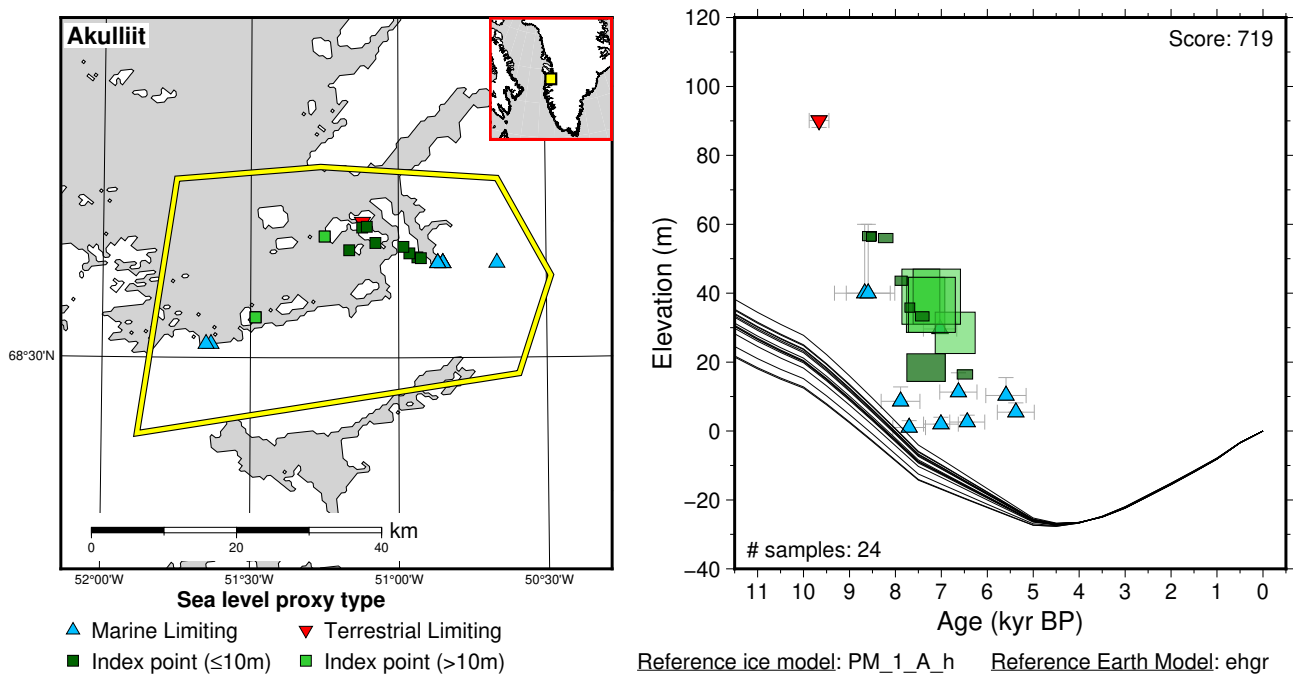


Figure 195: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Akulliit. References: Jungner (1979); Long and Roberts (2002); Long et al. (2011); Weidick (1972b, 1974, 1976).

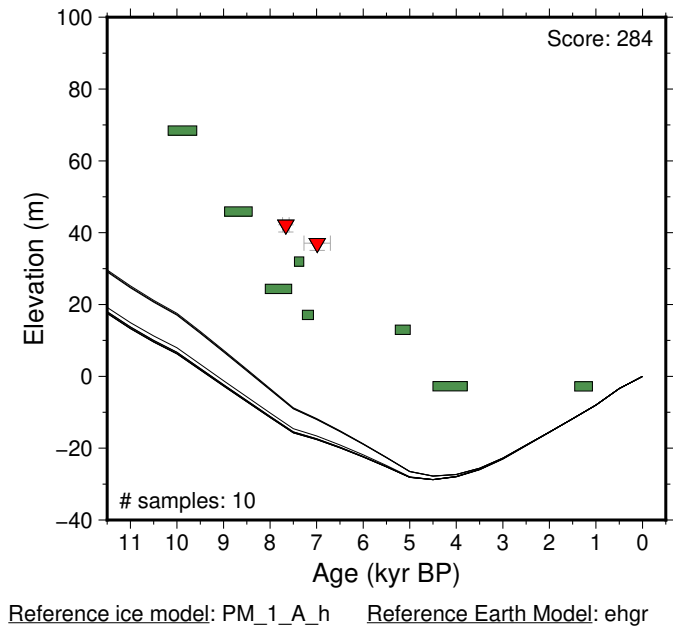
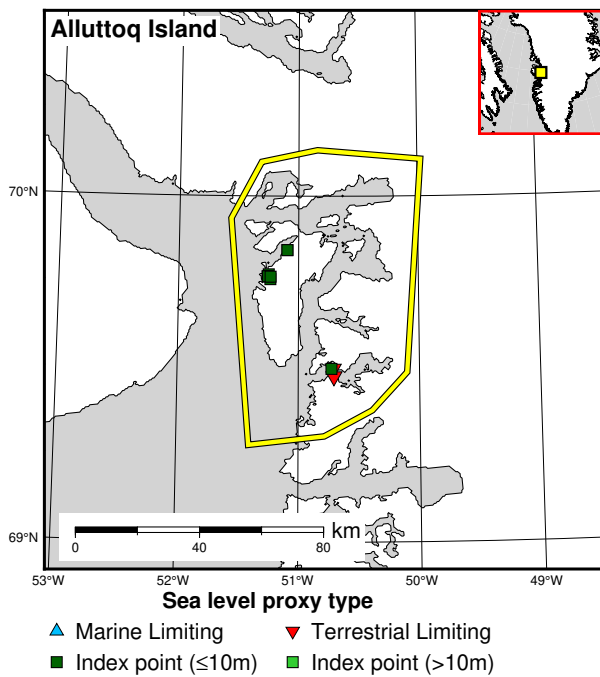


Figure 196: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Alluttoq Island. References: Long et al. (2006, 1999, 2011).

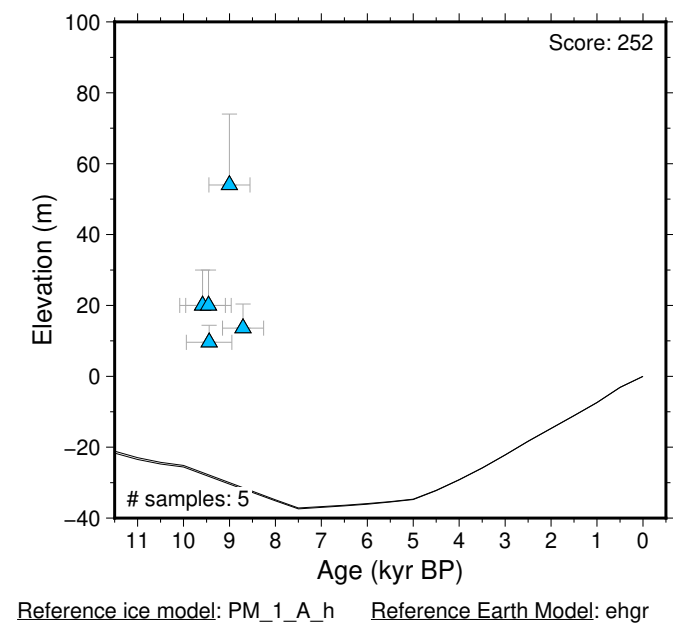
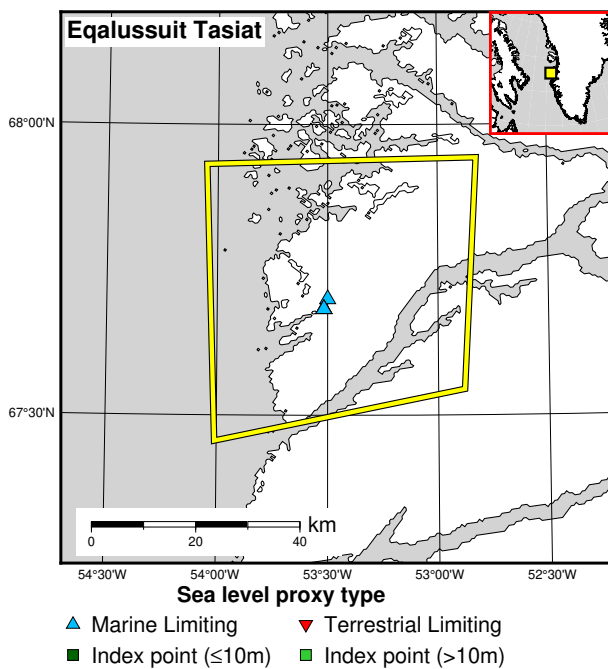


Figure 197: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Eqlussuit Tasiat. References: Weidick (1972b, 1974).

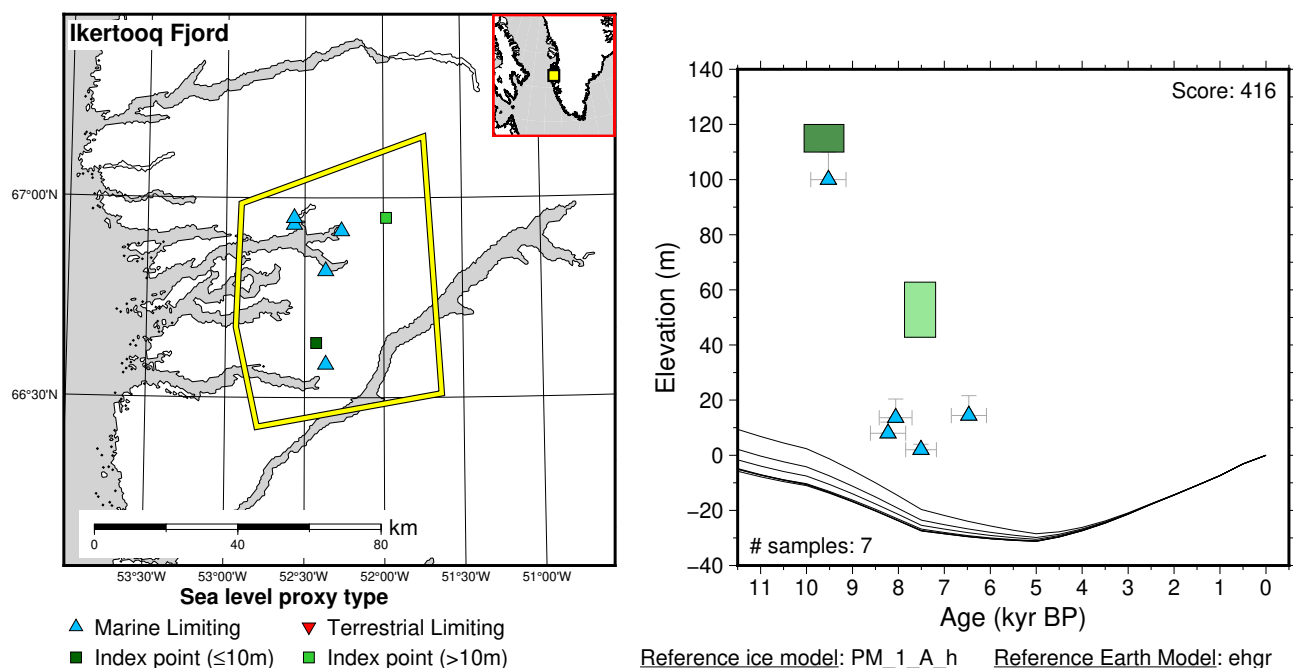


Figure 198: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Ikertooq Fjord. References: Ten Brink (1975); Ten Brink and Weidick (1974); van Tatenhove et al. (1996); Weidick (1972b, 1973).

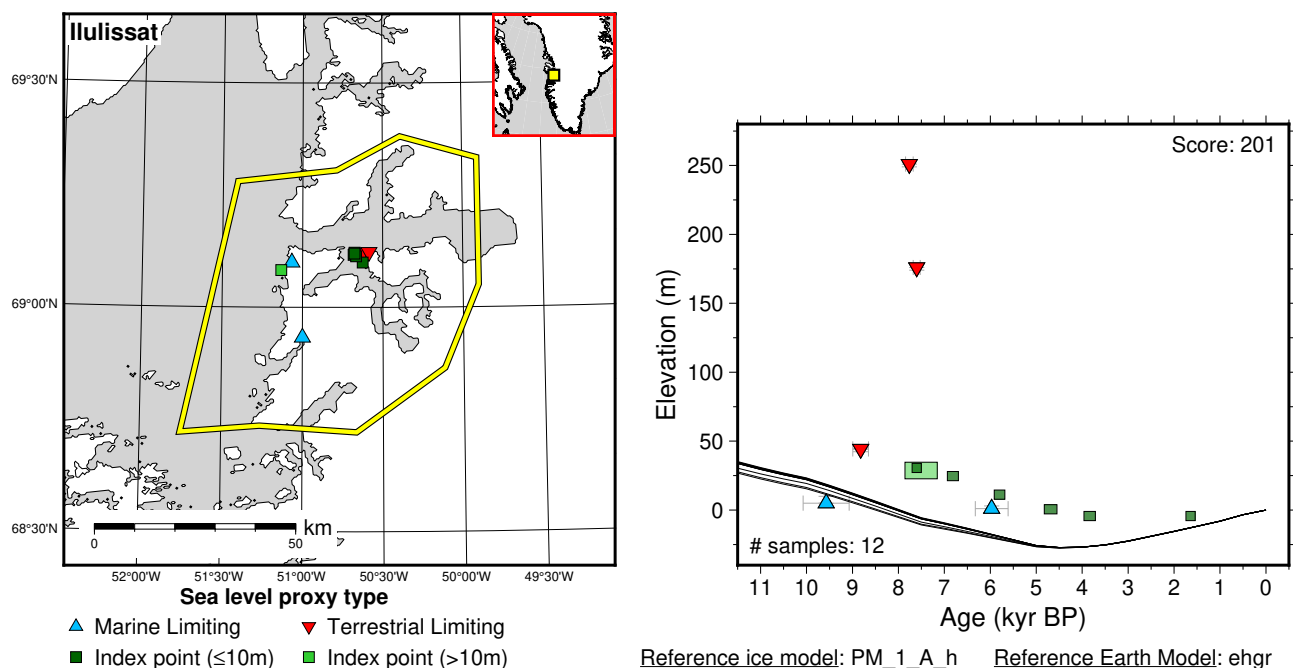


Figure 199: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Ilulissat. References: Long et al. (2006, 2011); Weidick (1972b, 1973).

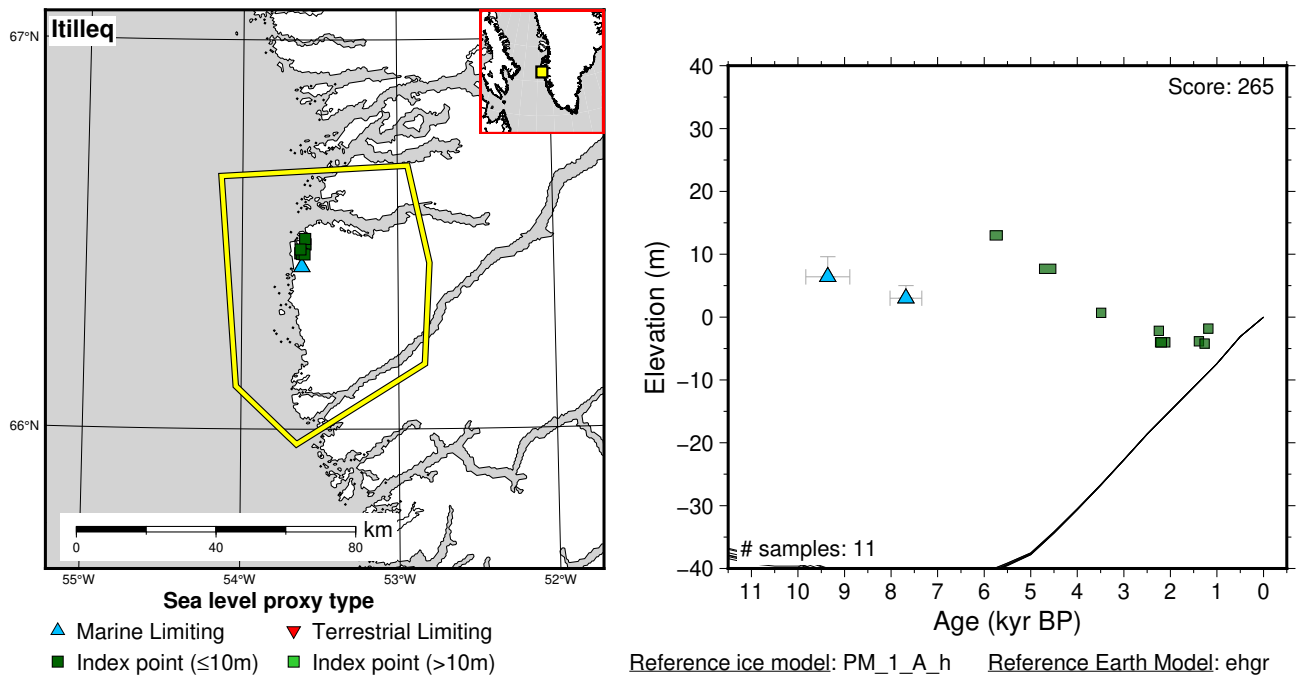


Figure 200: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Itilleq. References: Long et al. (2009, 2011); Weidick (1972b).

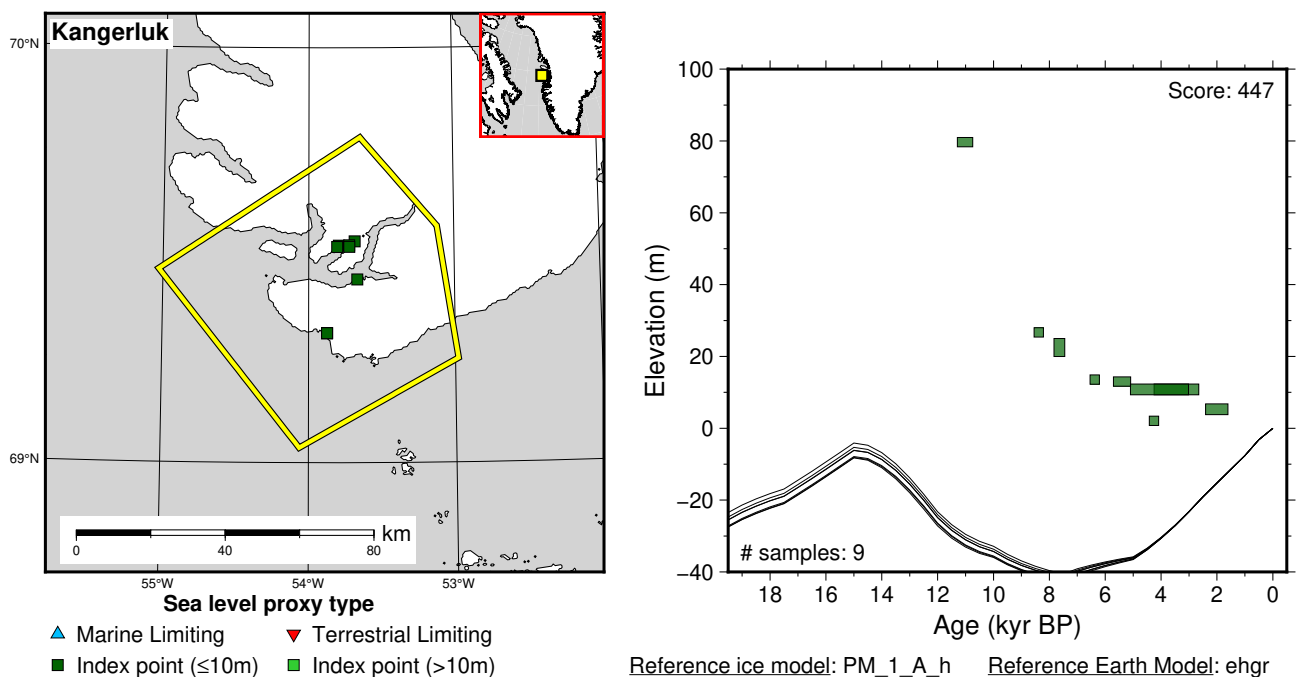


Figure 201: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Kangerluk. References: Bennike (1995); Föged (1989); Long et al. (2011); Rasch (1997); Souza et al. (2021).

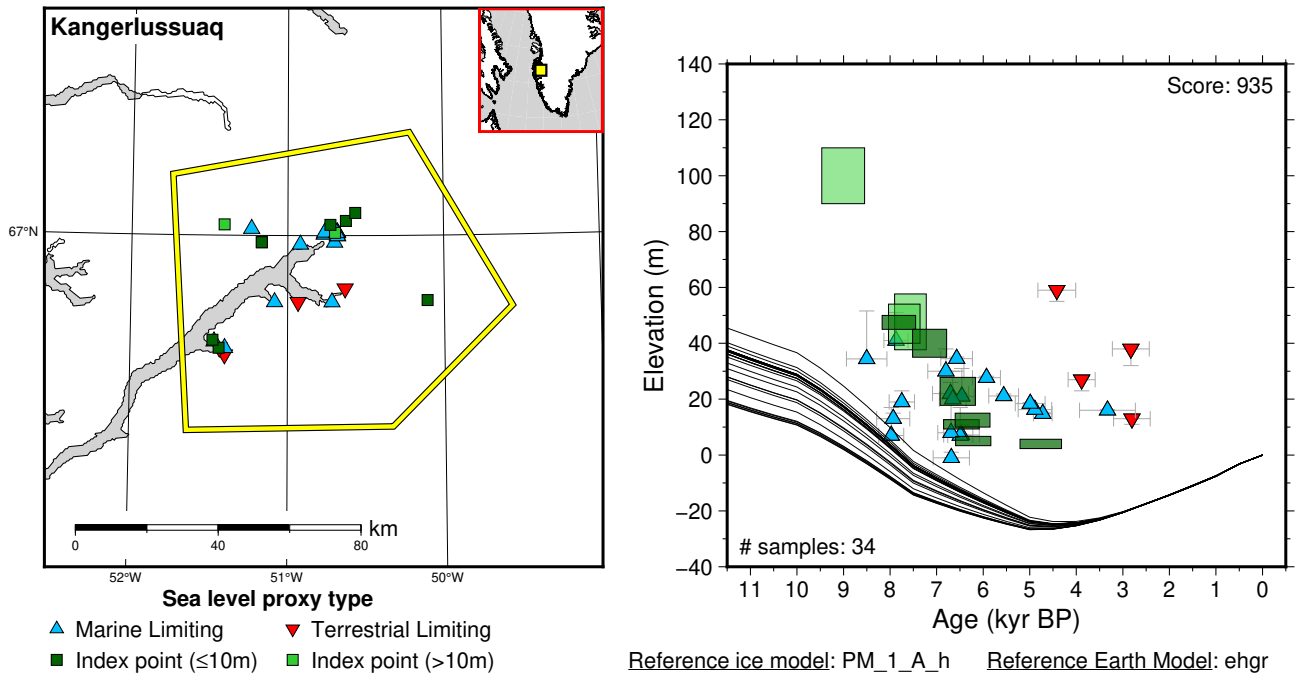


Figure 202: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Kangerlussuaq. References: Bierman et al. (2018); Storms et al. (2012); Ten Brink (1975); Ten Brink and Weidick (1974); van Tatenhove et al. (1996); Weidick (1972a,b, 1973).

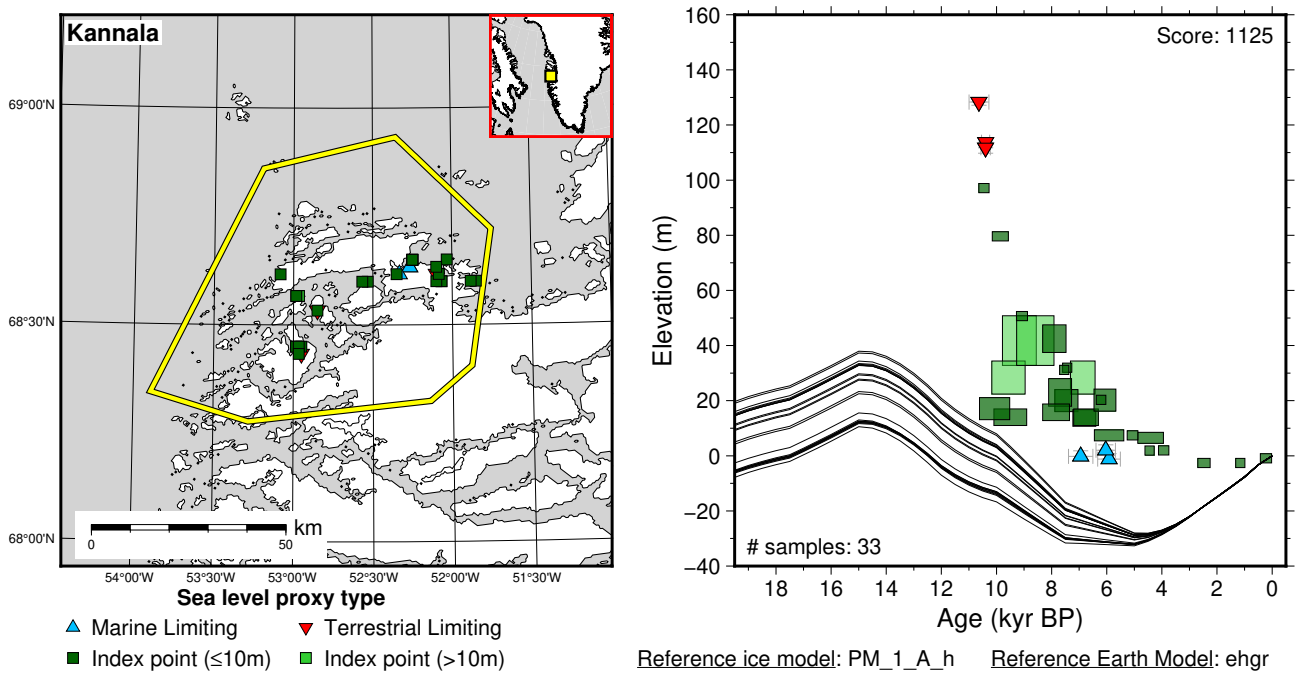


Figure 203: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Kannala. References: Jungner (1979); Long and Roberts (2003); Long et al. (2003, 2011); Weidick (1974, 1976).

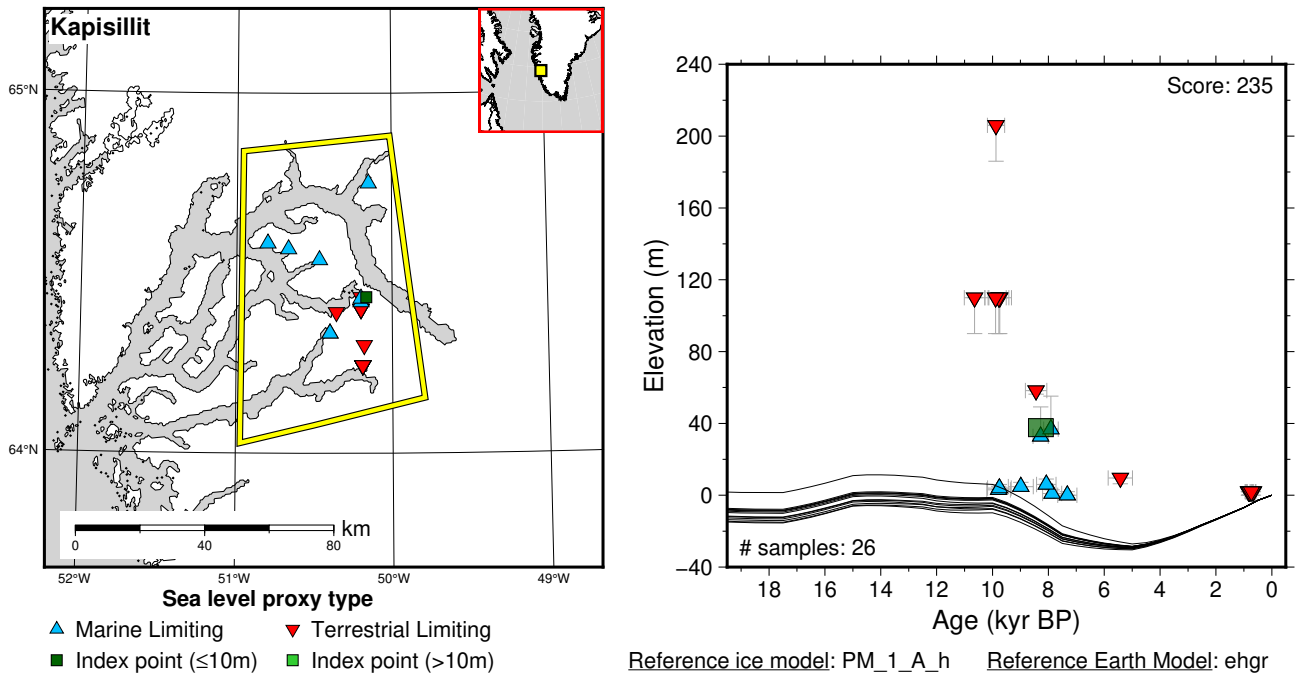


Figure 204: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Kapisillit. References: Fredskild (1973, 1983); Larsen et al. (2014); McGovern et al. (1996); Weidick (1968, 1972a, 1975, 1976); Weidick et al. (2012).

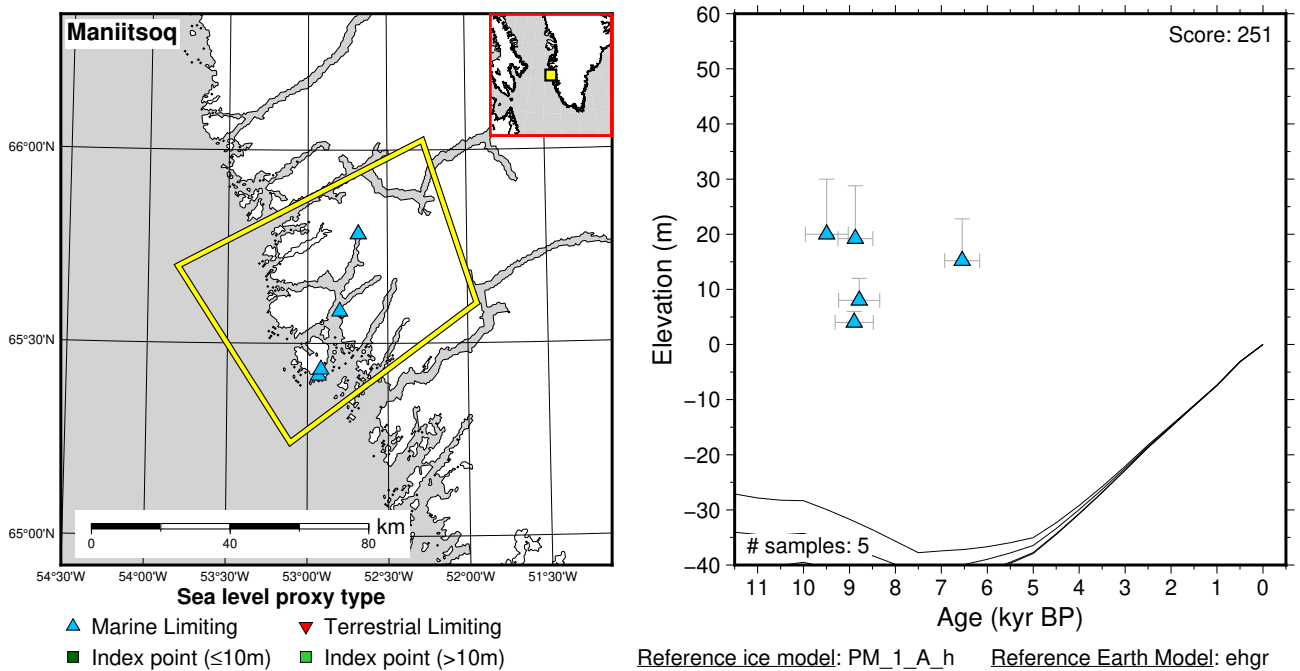


Figure 205: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Maniitsoq. References: Weidick (1973).

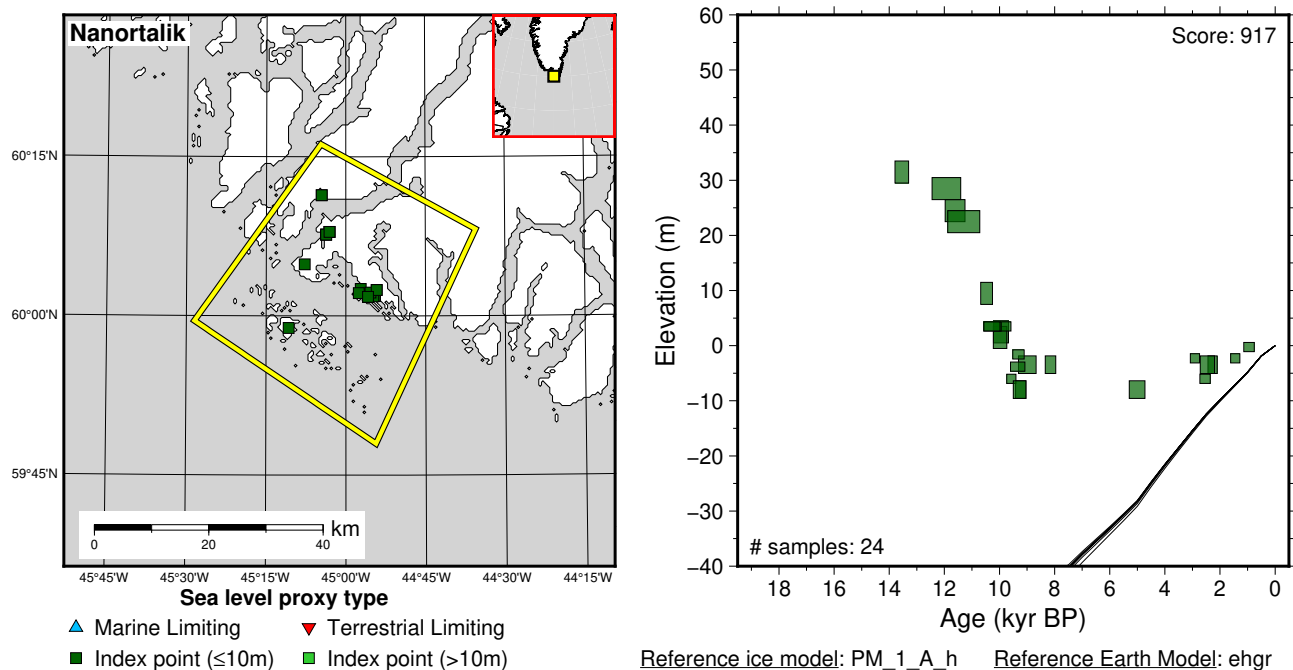


Figure 206: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Nanortalik. References: Bennike et al. (2002); Long et al. (2011); Sparrenbom et al. (2006b).

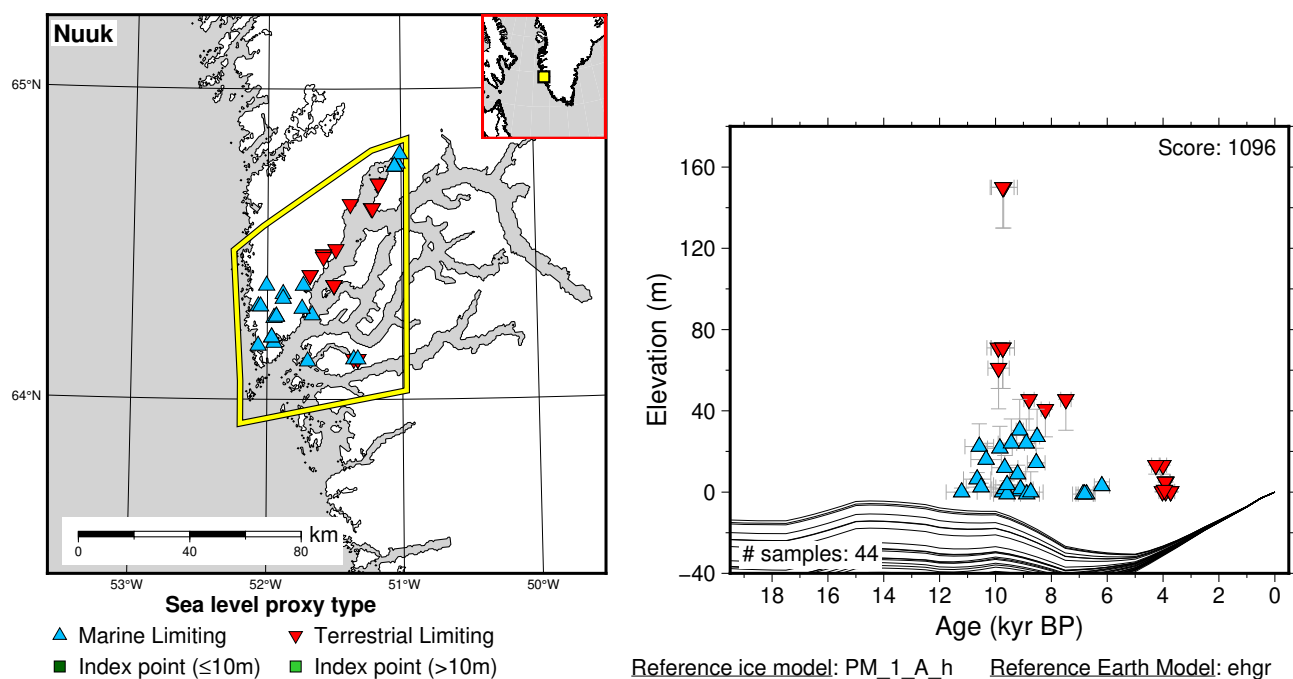


Figure 207: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Nuuk. References: Berglund (2003); Fredskild (1983); Hinnerson-Berglund (2004); Larsen et al. (2014, 2017); Weidick (1973, 1976).

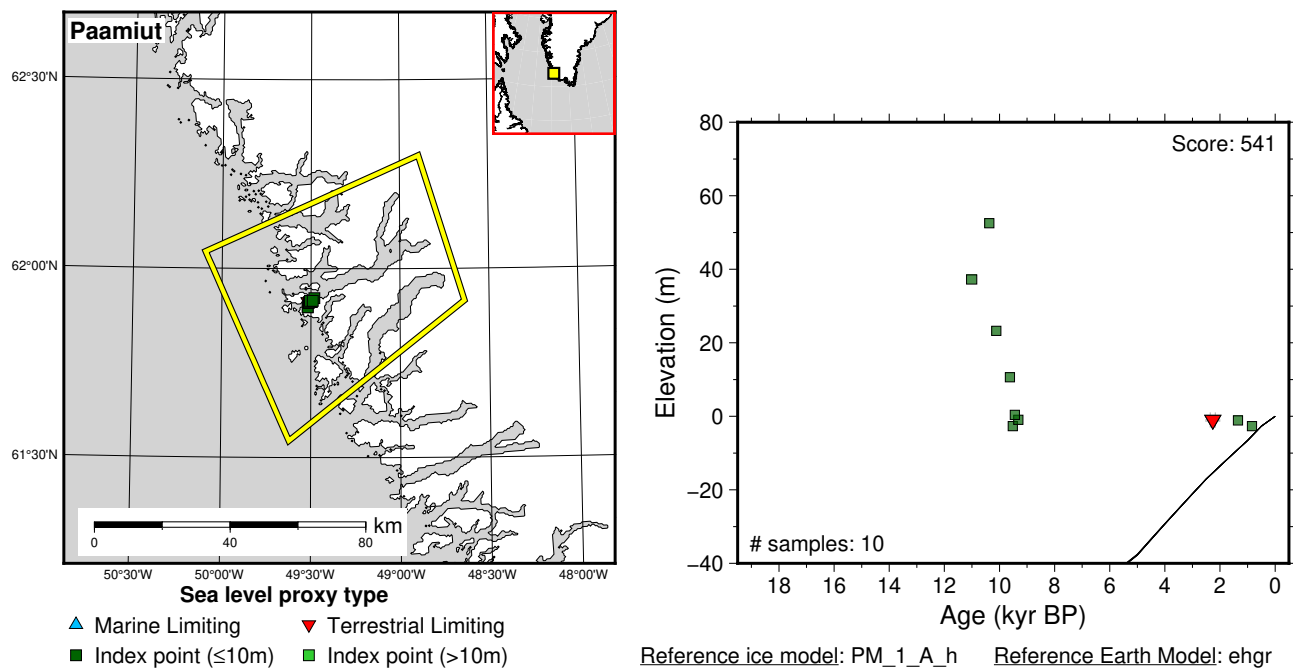


Figure 208: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Paamiut. References: Woodroffe et al. (2014).

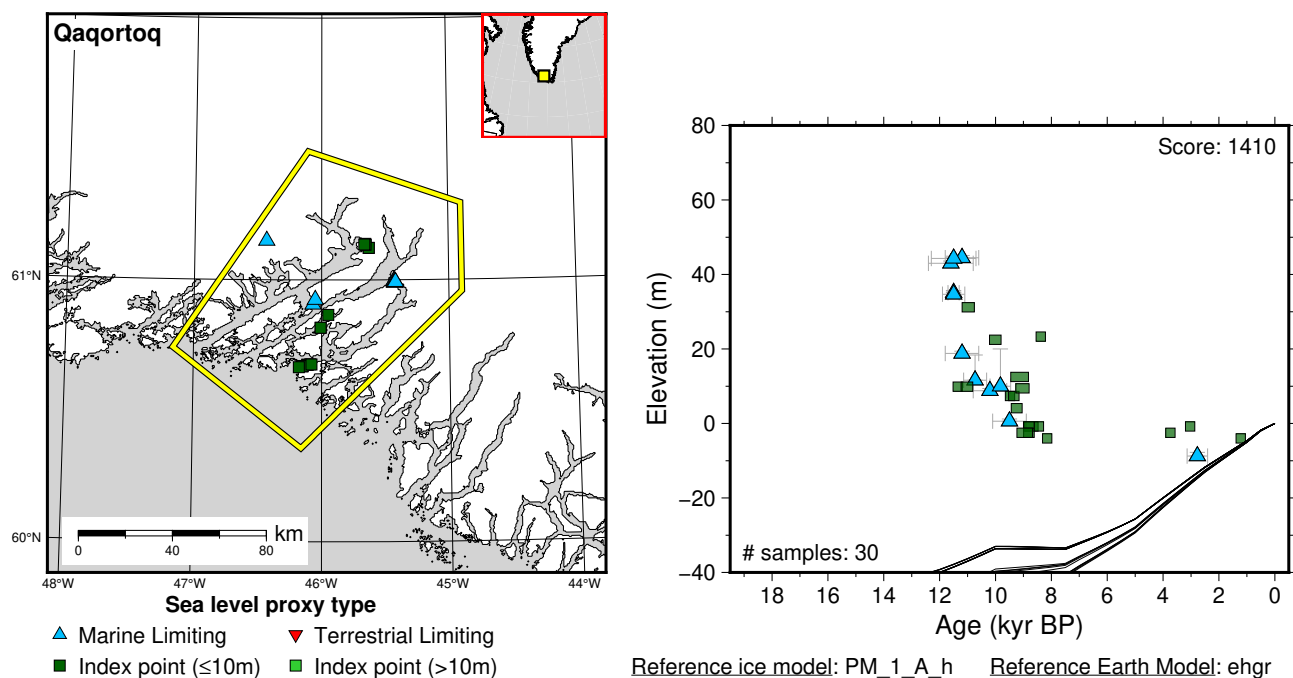


Figure 209: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Qaqortoq. References: Bennike et al. (2002); Bierman et al. (2018); Fredh (2008); Long et al. (2011); Randsalu (2008); Sparrenbom et al. (2006a); Weidick (1975).

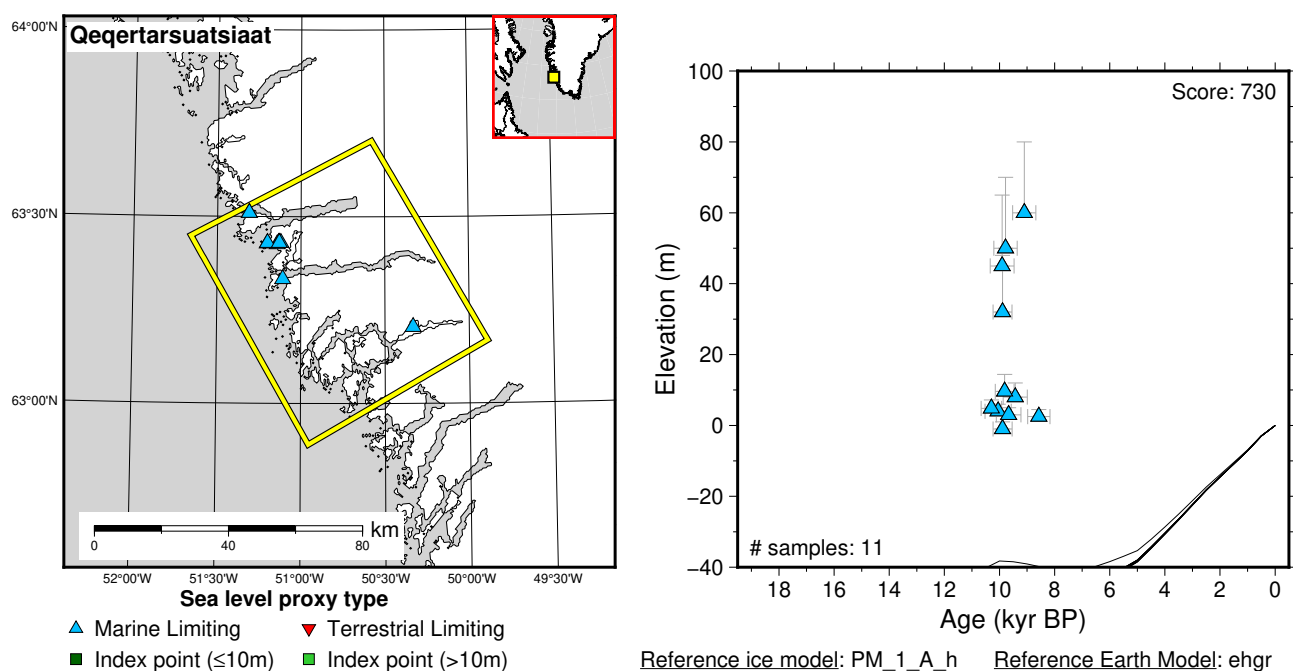


Figure 210: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Qeqertarsuatsiaat. References: Larsen et al. (2014); Weidick (1975).

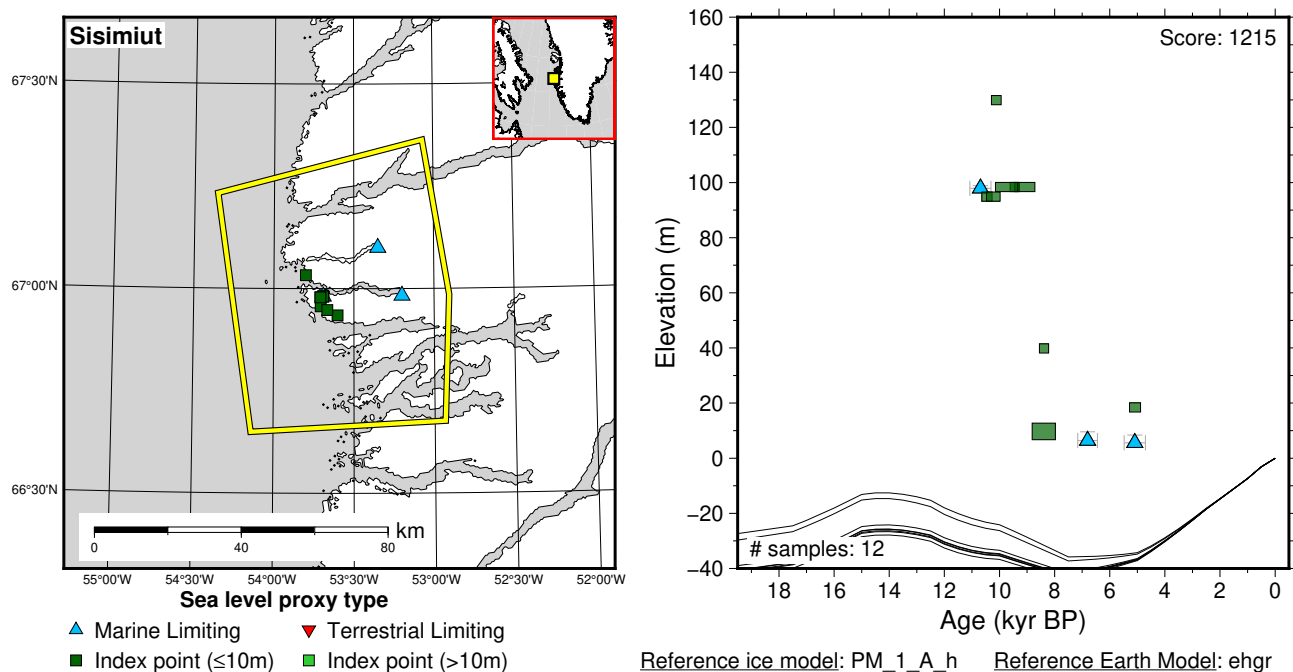


Figure 211: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Sisimiut. References: Bennike et al. (2011); Long et al. (2011); Weidick (1972b, 1973).

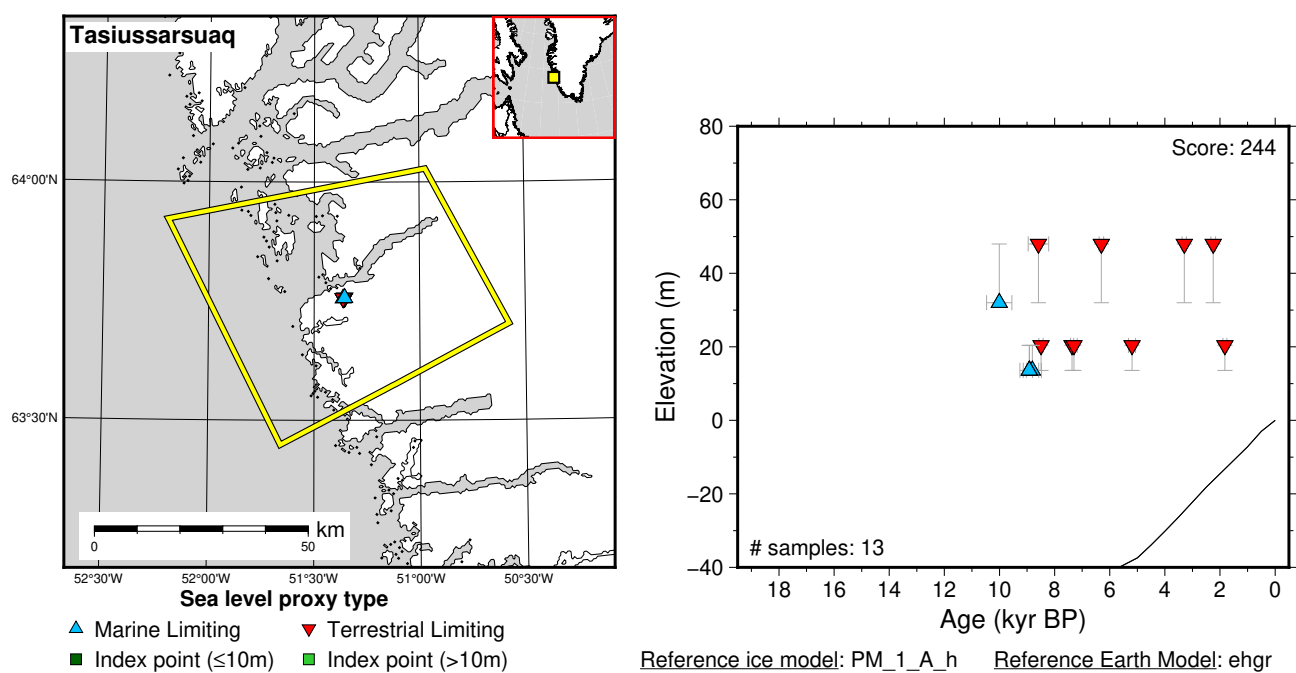


Figure 212: Paleo-sea level and comparison of six models for subregion: Southwest Greenland, location: Tasiussarsuaq. References: Lasher et al. (2020).

6.8 North America Arctic

6.8.1 Hudson Bay

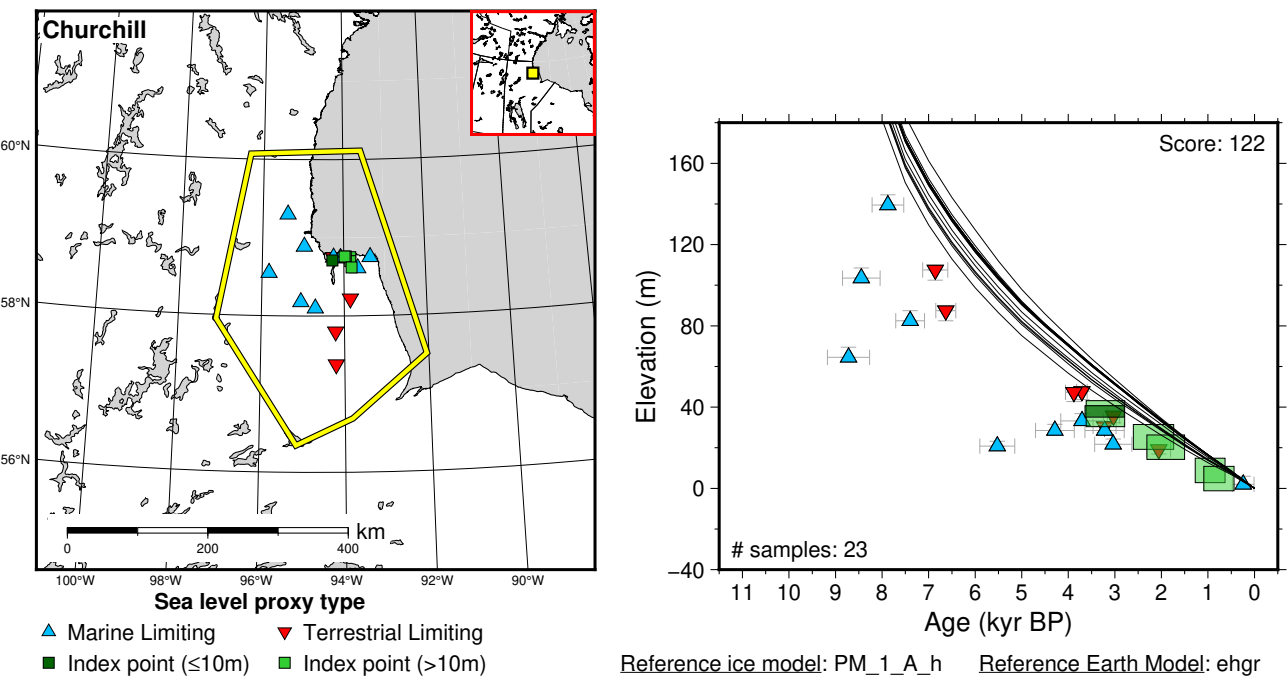


Figure 213: Paleo-sea level and comparison of six models for subregion: Hudson Bay, location: Churchill. References: Anderson and Hodgetts (2007); Andrews and Falconer (1969); Blake (1982, 1988); Dyck and Fyles (1964); Hodgetts (2007); Kuhry (2008); Lowdon and Blake (1973); Lowdon et al. (1971); Meyer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

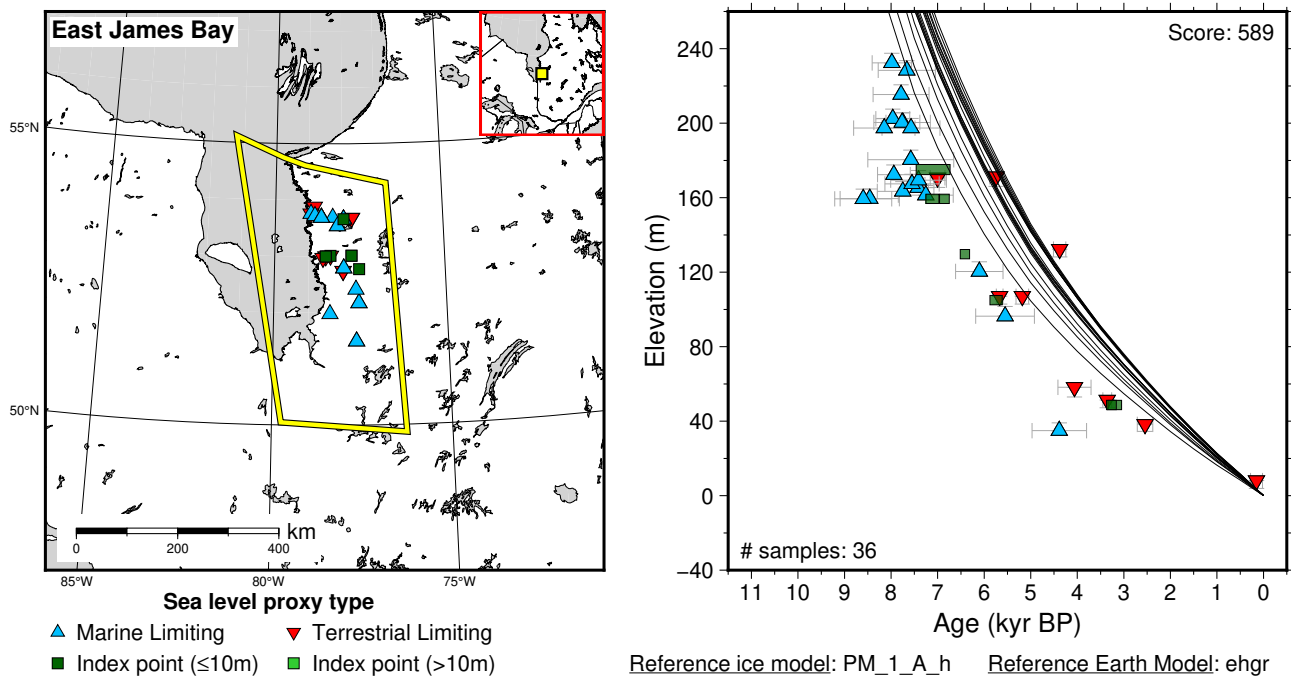


Figure 214: Paleo-sea level and comparison of six models for subregion: Hudson Bay, location: East James Bay. References: Beaulieu-Audy et al. (2009); Farrand (1962); Hardy (1976); Pendea et al. (2010); Vacchi et al. (2018).

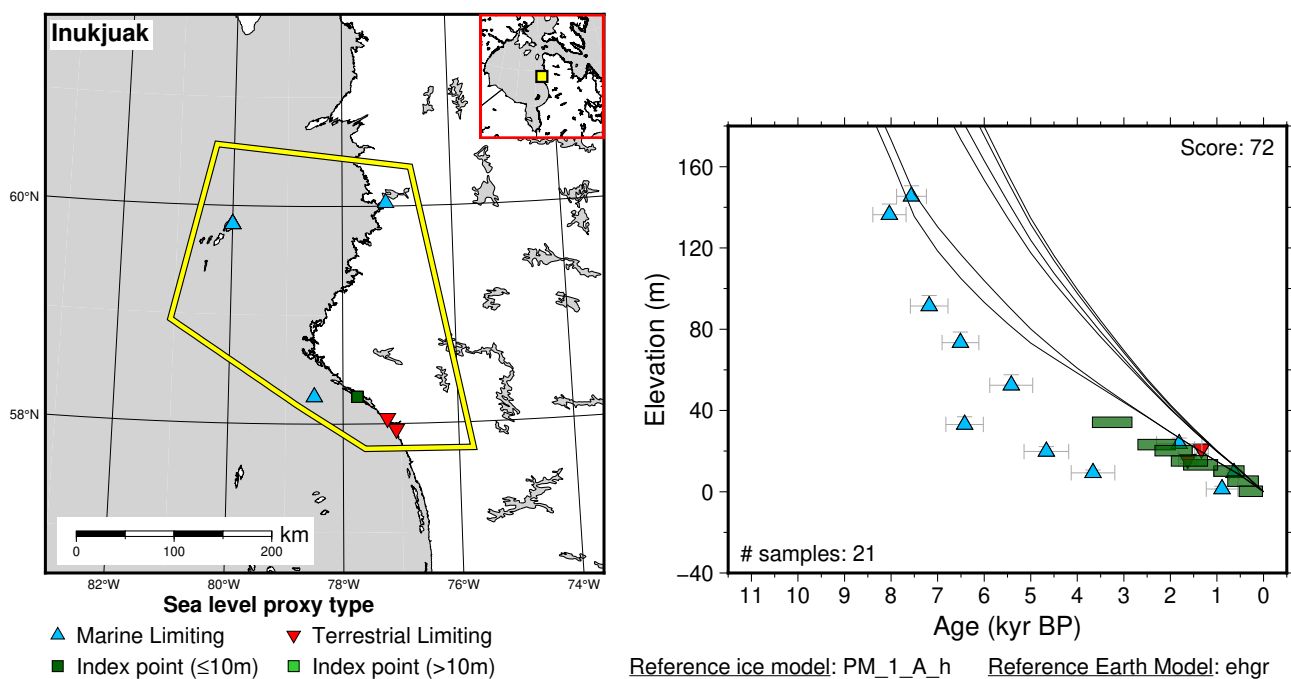


Figure 215: Paleo-sea level and comparison of six models for subregion: Hudson Bay, location: Inukjuak. References: Andrews and Falconer (1969); Andrews and Short (1983); Buckley and Willis (1970); Harington (2003); Lauriol and Gray (1997); Lemieux et al. (2011); Lowdon and Blake (1968); Saint-Laurent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

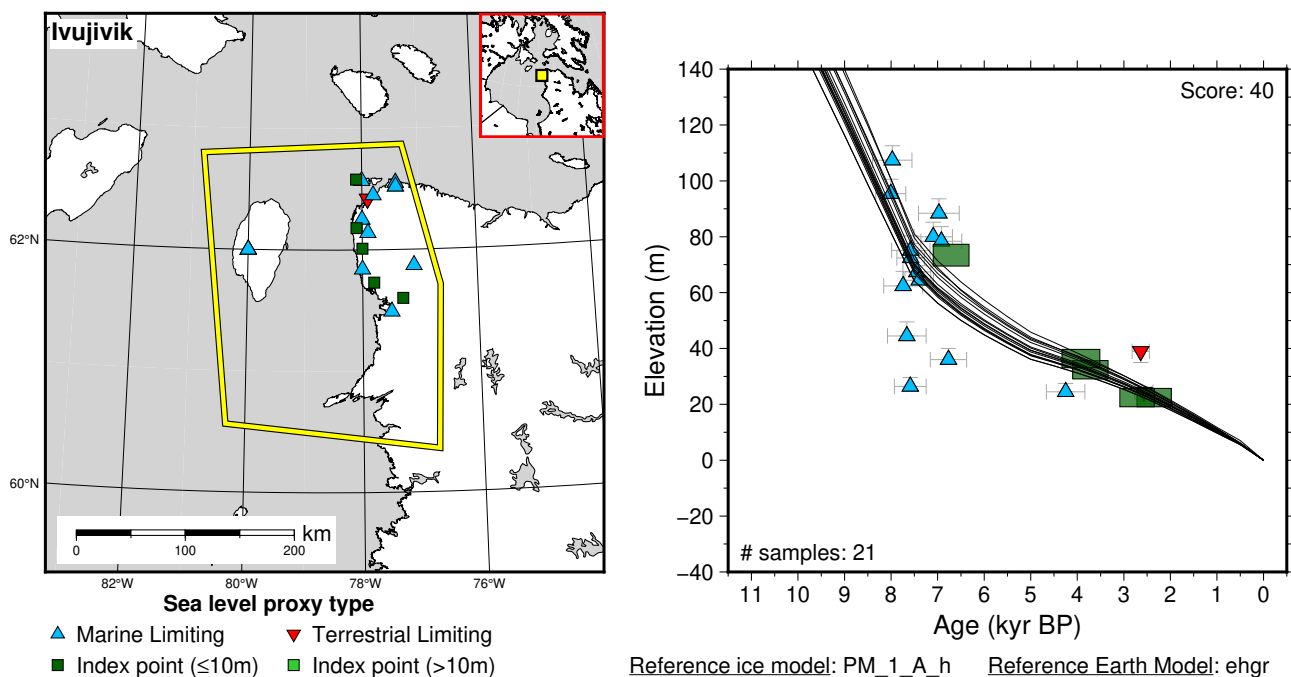


Figure 216: Paleo-sea level and comparison of six models for subregion: Hudson Bay, location: Ivujivik. References: Daigneault (2008); Harington (2003); Martindale et al. (2020); Matthews (1966, 1967); McNeely and Brennan (2005); Vacchi et al. (2018); Wagner (1967).

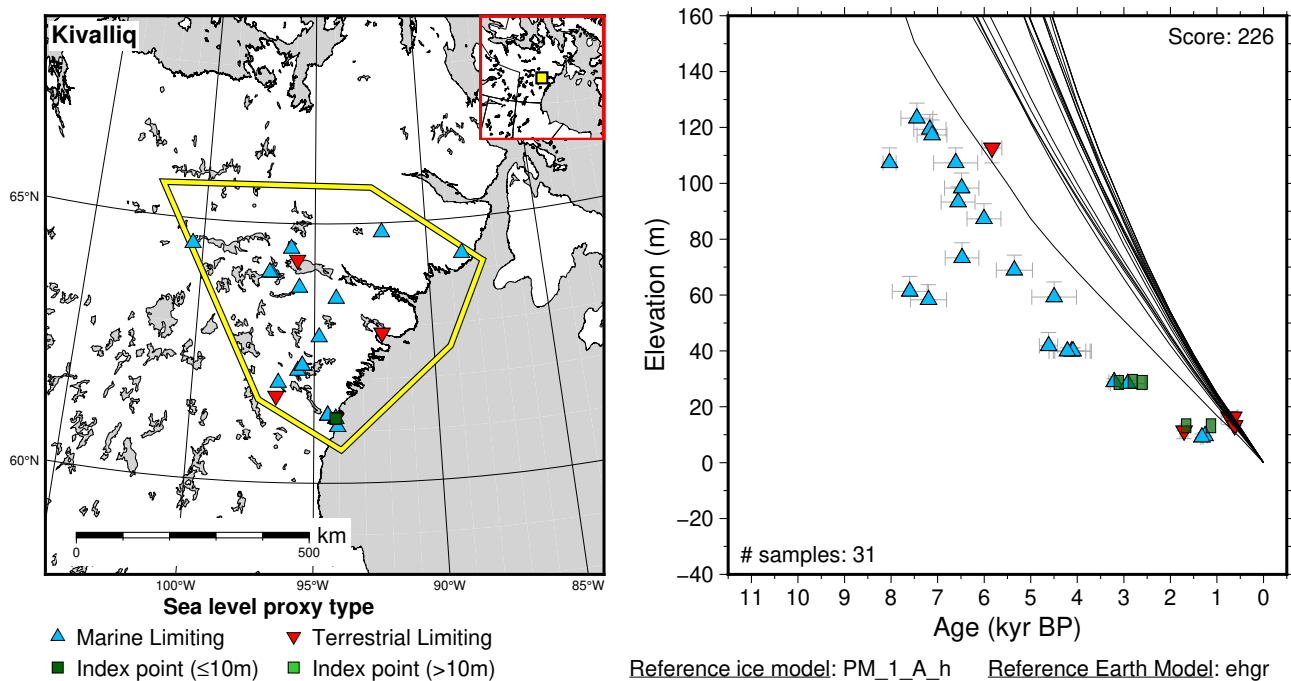


Figure 217: Paleo-sea level and comparison of six models for subregion: Hudson Bay, location: Kivalliq. References: Aylsworth et al. (1981); Blake (1983, 1986, 1988); Dyck and Fyles (1962); Dyck et al. (1966); Lowdon and Blake (1970); Lowdon and Blake (1979); McNeely and Atkinson (1995); Morrison (1989);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

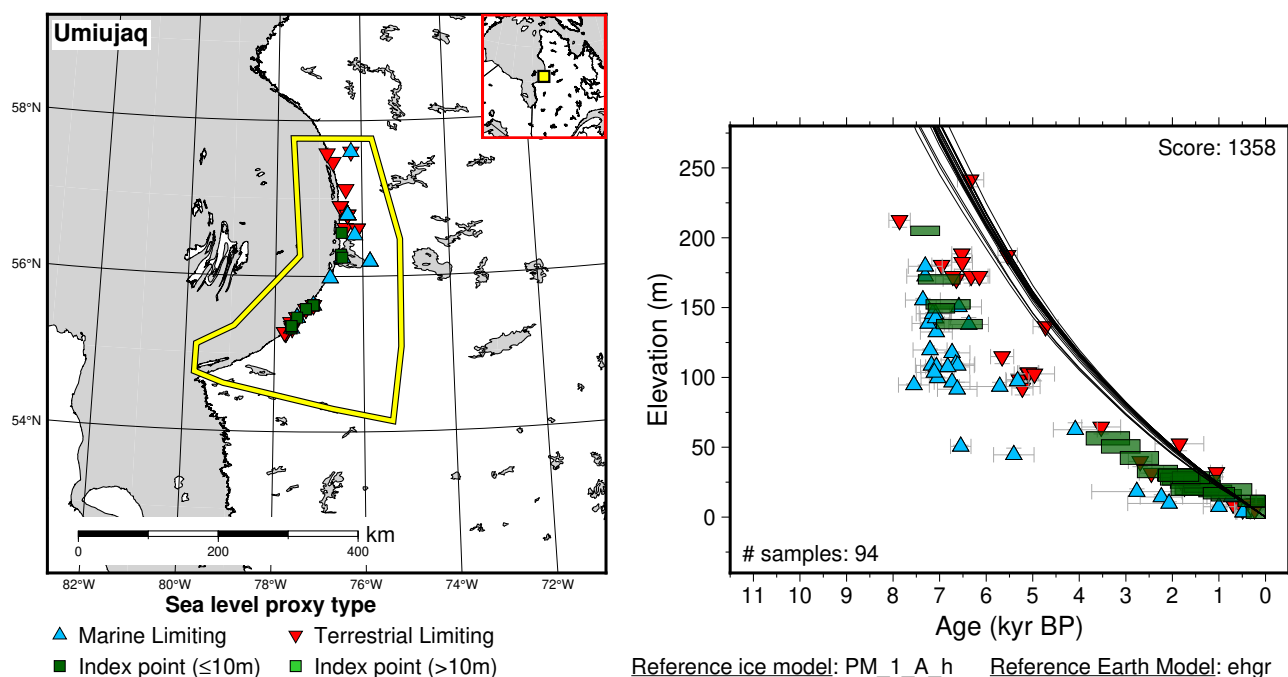


Figure 218: Paleo-sea level and comparison of six models for subregion: Hudson Bay, location: Umiujaq. References: Allard and Seguin (1985); Allard and Tremblay (1983a,b); Cayer (2003); Filion et al. (1991); Gajewski and Garralla (1992); Hillaire-Marcel (1976); Lajeunesse and Allard (2003); Lamarre et 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).

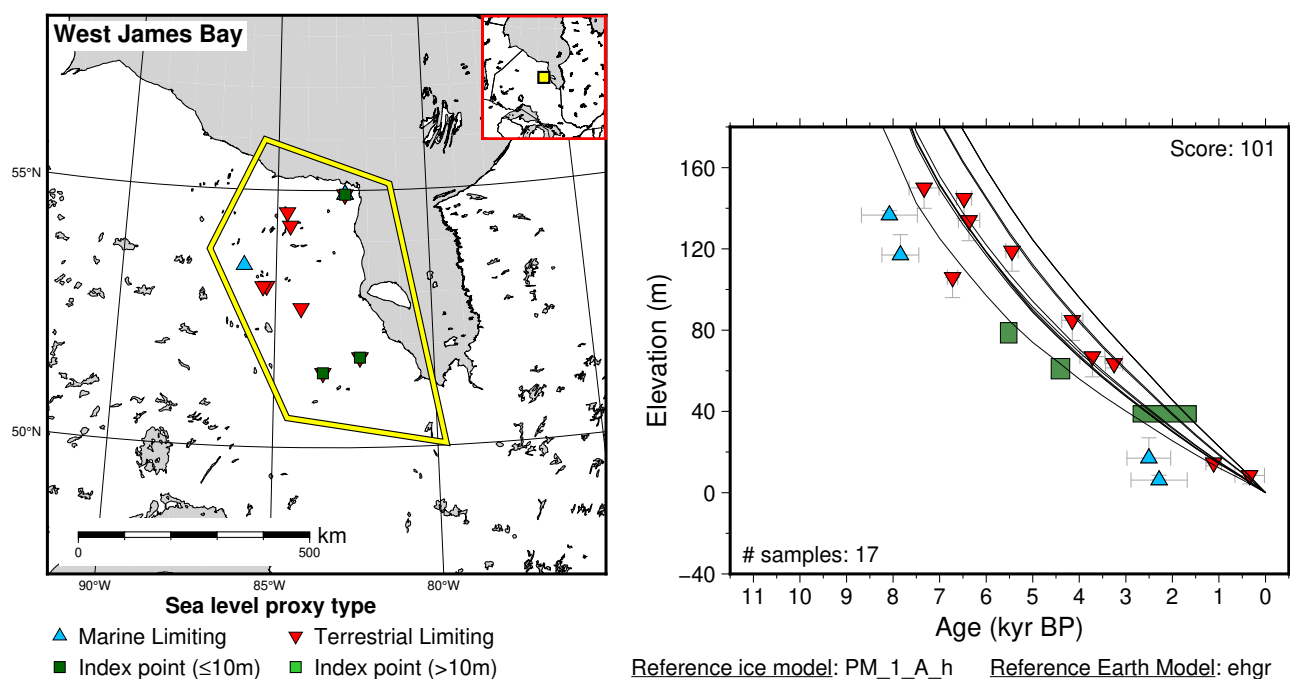


Figure 219: Paleo-sea level and comparison of six models for subregion: Hudson Bay, location: West James Bay. References: Bunbury et al. (2012); Dyck et al. (1965); Dyke and Peltier (2000); Glaser et al. (2004); McAndrews et al. (1982); McNeely and Brennan (2005); Vacchi et al. (2018); Vogel and Waterbolk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

6.8.2 Hudson Strait

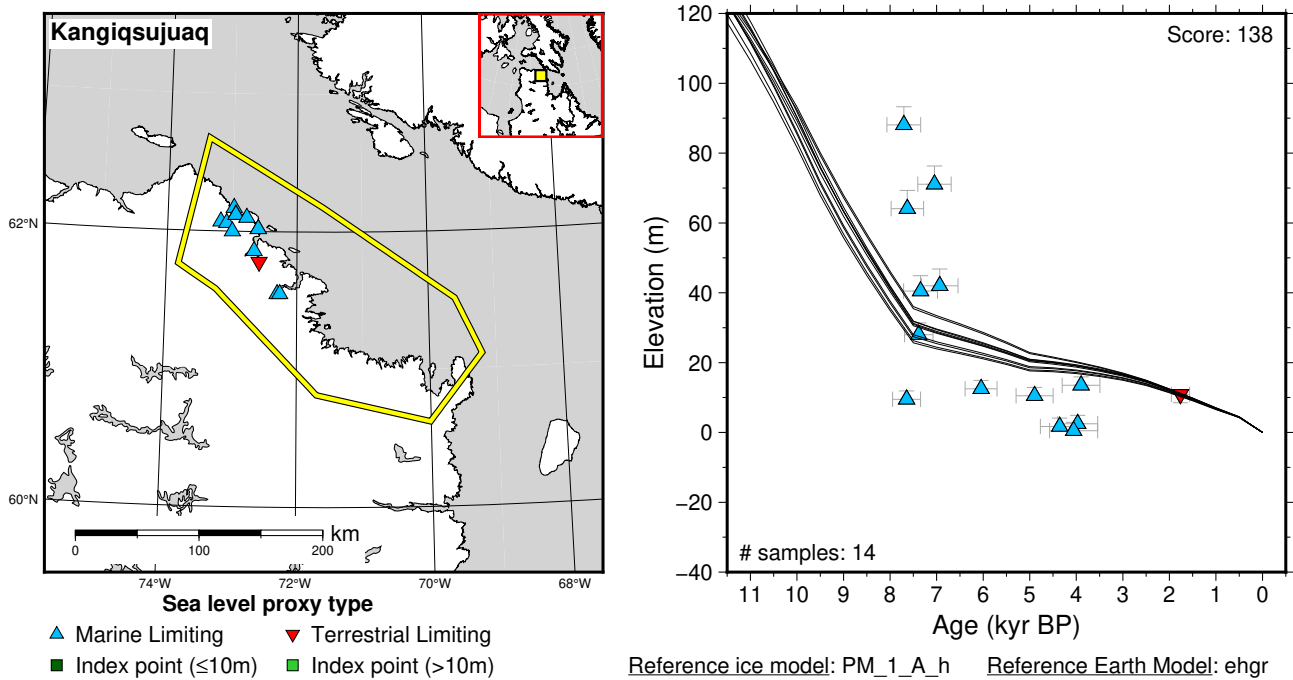


Figure 220: Paleo-sea level and comparison of six models for subregion: Hudson Strait, location: Kangiqsujuag. References: Daigneault (2008); Dyke et al. (2003); Gray et al. (1993); Gray (2001); Lauriol and Gray (1987); McNeely (2002, 2005); McNeely and Atkinson (1995); Vacchi et al. (2018).

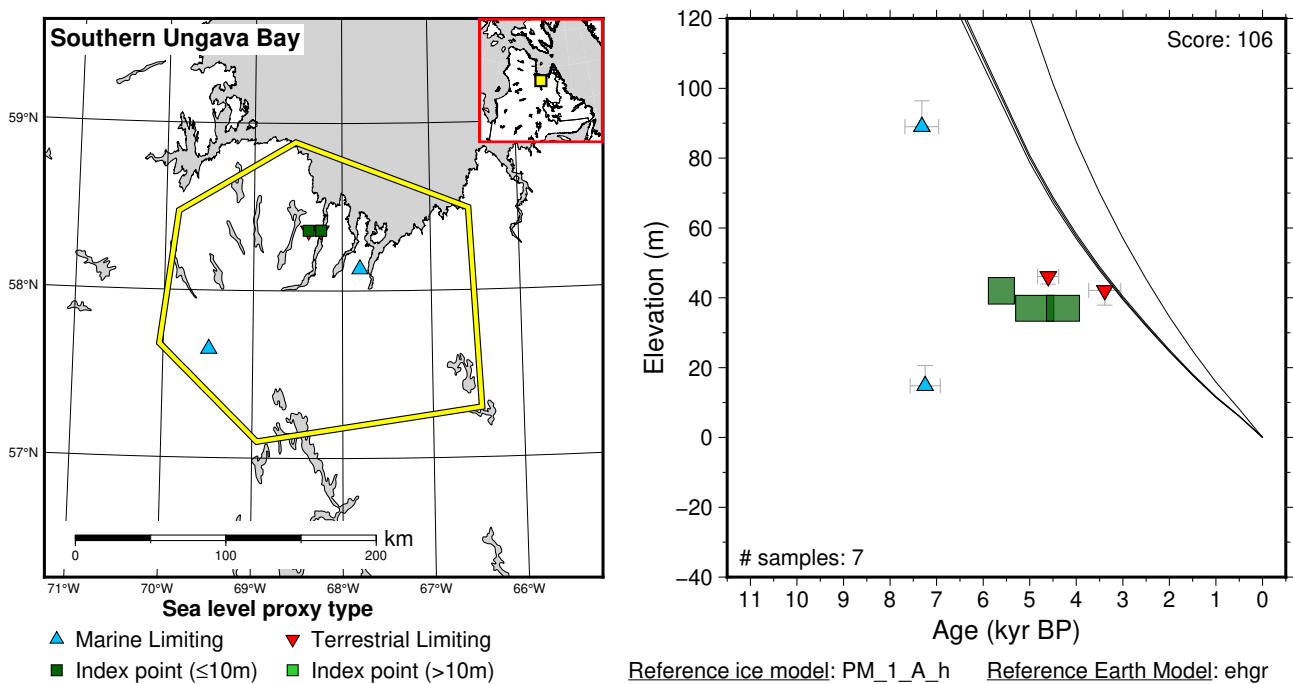


Figure 221: Paleo-sea level and comparison of six models for subregion: Hudson Strait, location: Southern Ungava Bay. References: Gray (2001); Pienitz et al. (1991); Vacchi et al. (2018).

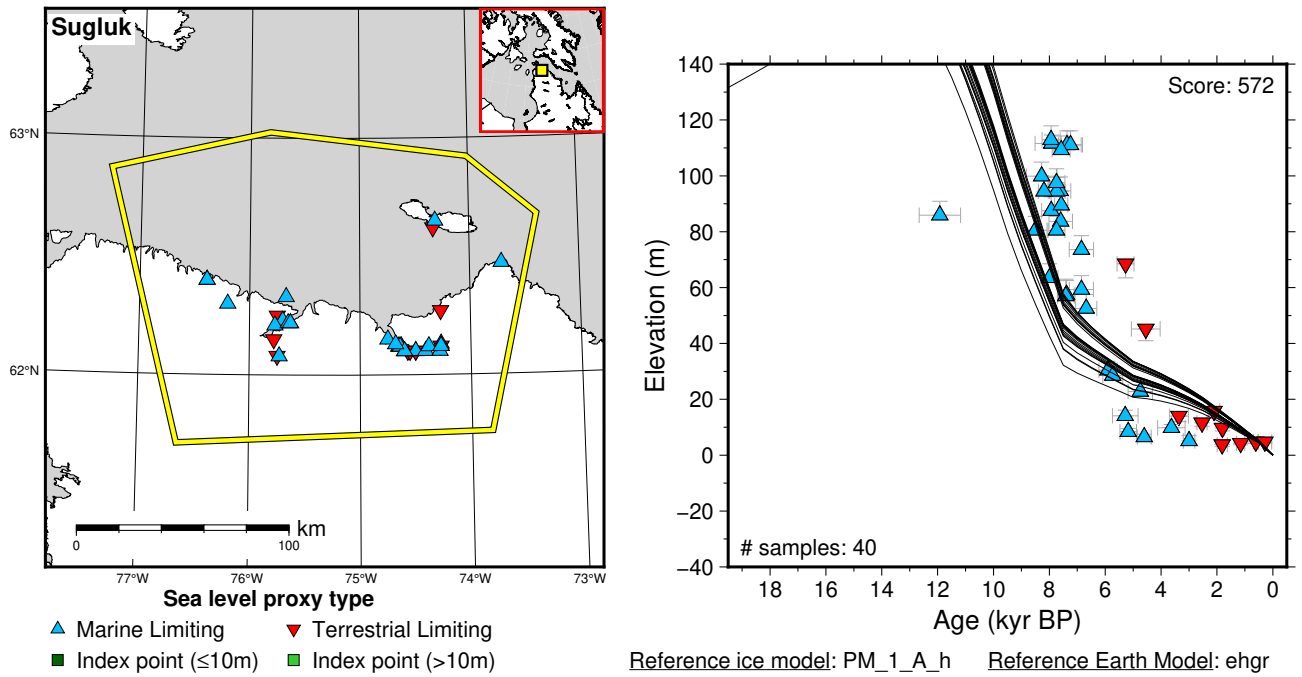


Figure 222: Paleo-sea level and comparison of six models for subregion: Hudson Strait, location: Sugluk. References: Bartley and Matthews (1969); Daigneault (2008); Gray et al. (1993); Gray (2001); Gray and Lauriol (1985); Kasper and Allard (2001); Lauriol and Gray (1997); Lowdon and Blake (1968); Matthews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

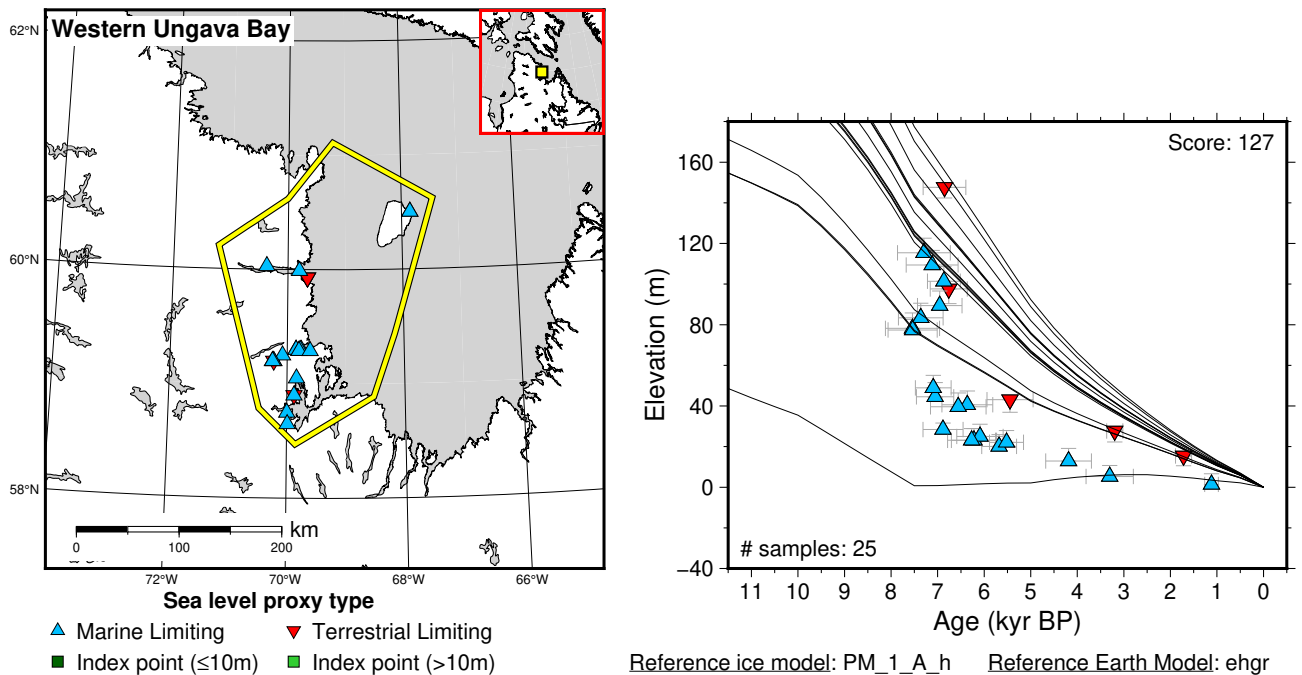


Figure 223: Paleo-sea level and comparison of six models for subregion: Hudson Strait, location: Western Ungava Bay. References: Gray et al. (1980, 1993); Lauriol and Gray (1987); Lauriol et al. (1979); Løken (1978); Simon et al. (2016); Vacchi et al. (2018).

6.9 North America Atlantic

6.9.1 Eastern United States

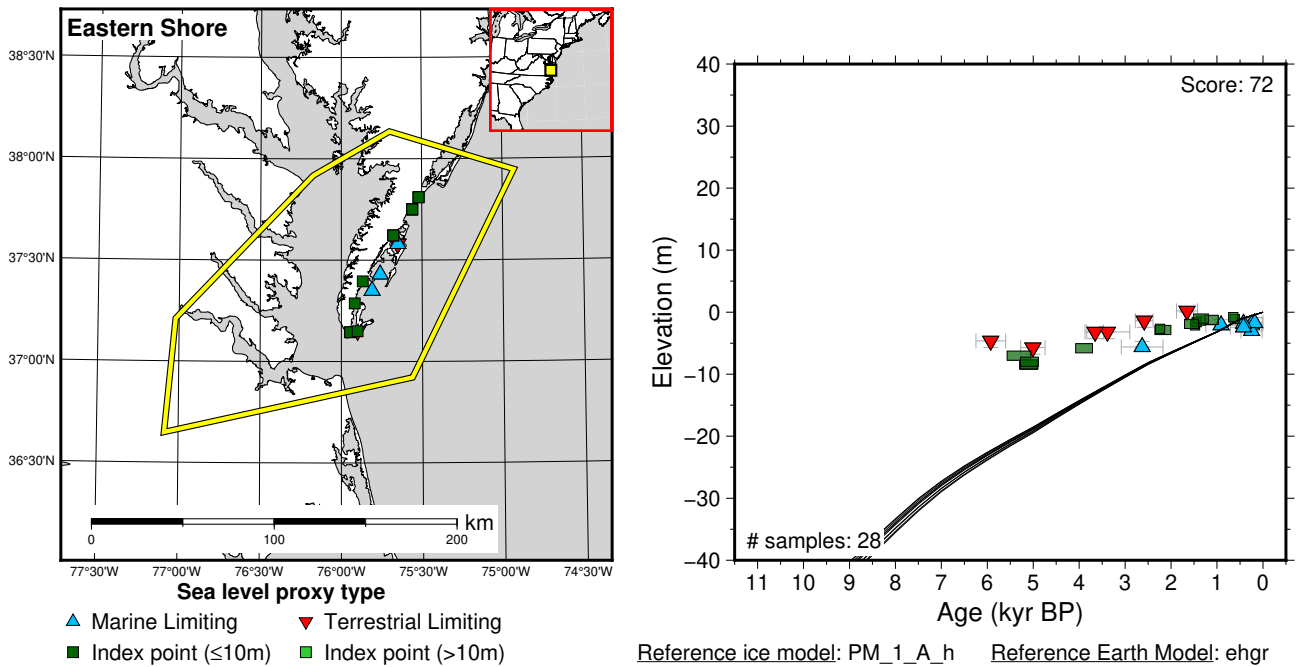


Figure 224: Paleo-sea level and comparison of six models for subregion: Eastern United States, location: Eastern Shore. References: Engelhart and Horton (2012); Engelhart et al. (2009); Finkelstein and Ferland (1987); Newman and Rusnak (1965); van de Plassche (1990).

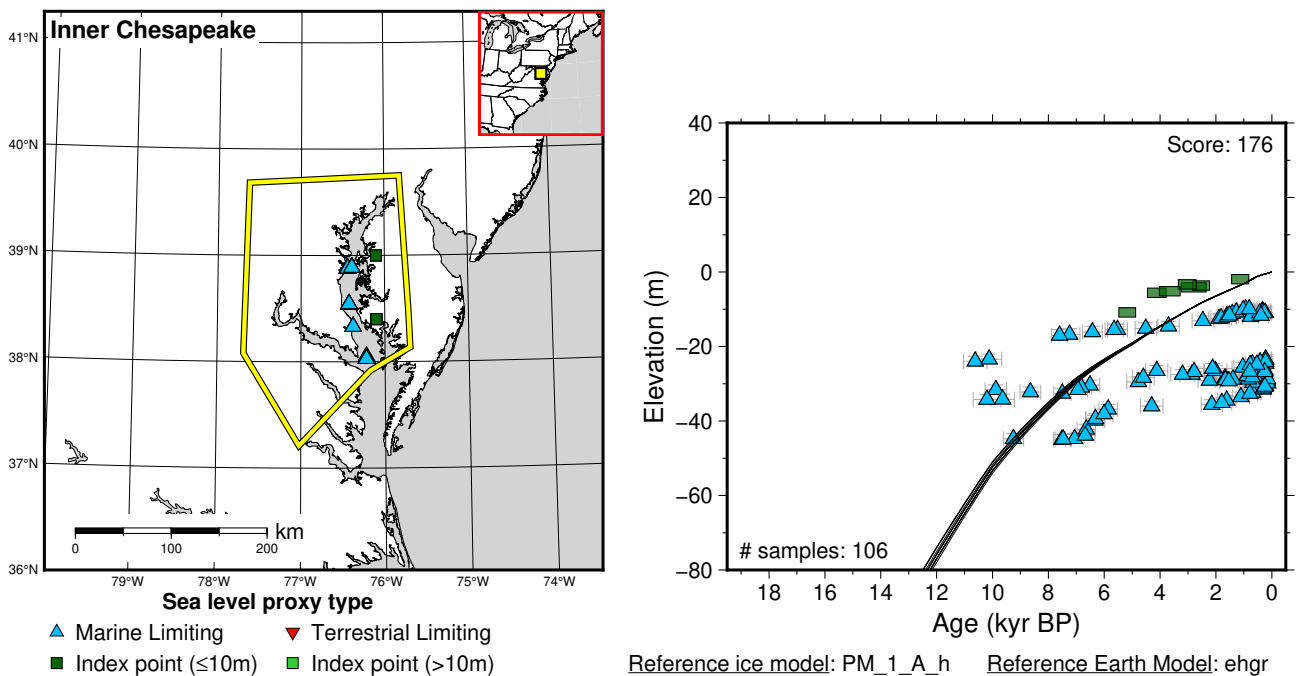


Figure 225: Paleo-sea level and comparison of six models for subregion: Eastern United States, location: Inner Chesapeake. References: Cinquemani et al. (1982); Colman et al. (2002); Engelhart and Horton (2012).

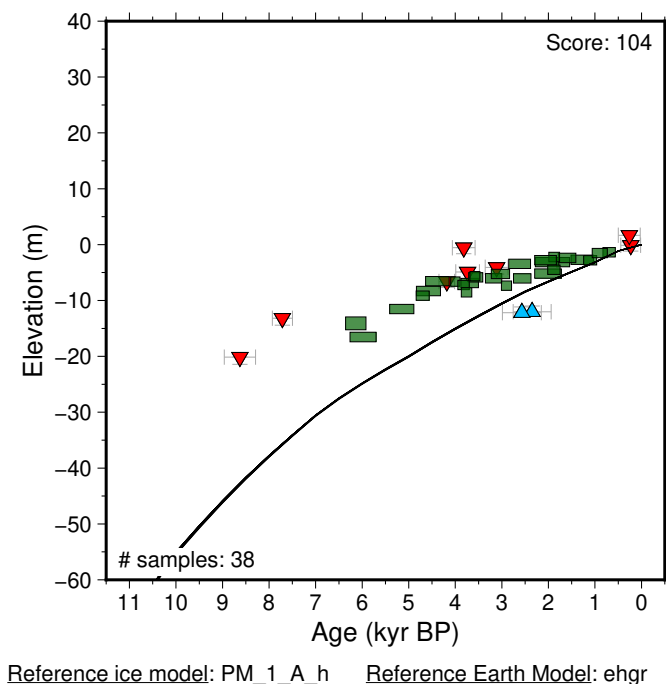
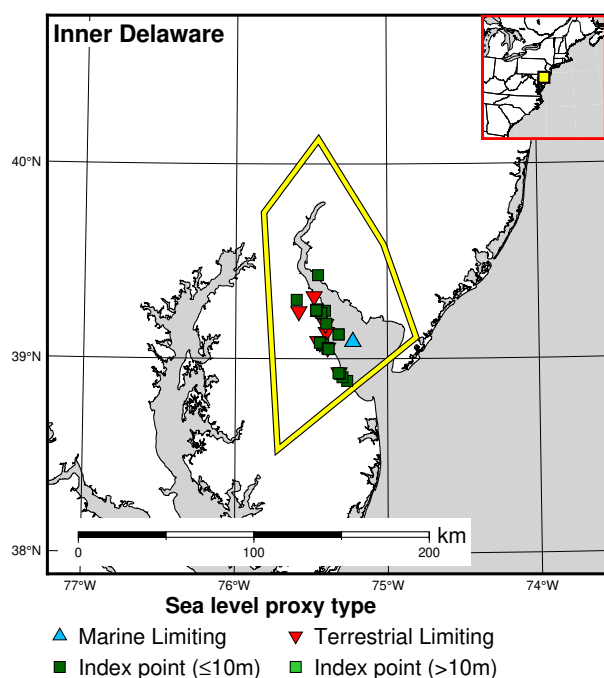


Figure 226: Paleo-sea level and comparison of six models for subregion: Eastern United States, location: Inner Delaware. References: Belknap (1975); Engelhart and Horton (2012); Kraft (1976); Leorri et al. (2006); Marx (1981); Nikitina et al. (2000); Ramsey and Baxter (1996); Rogers and Pizzuto (1994).

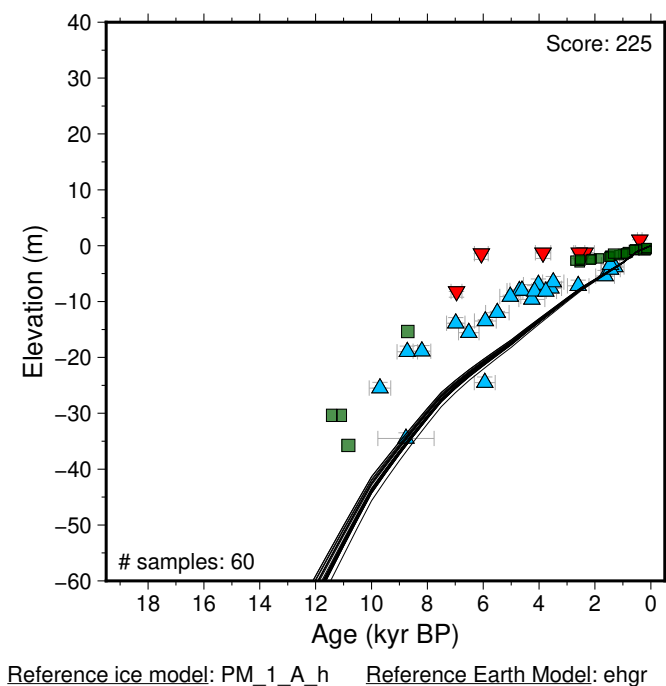
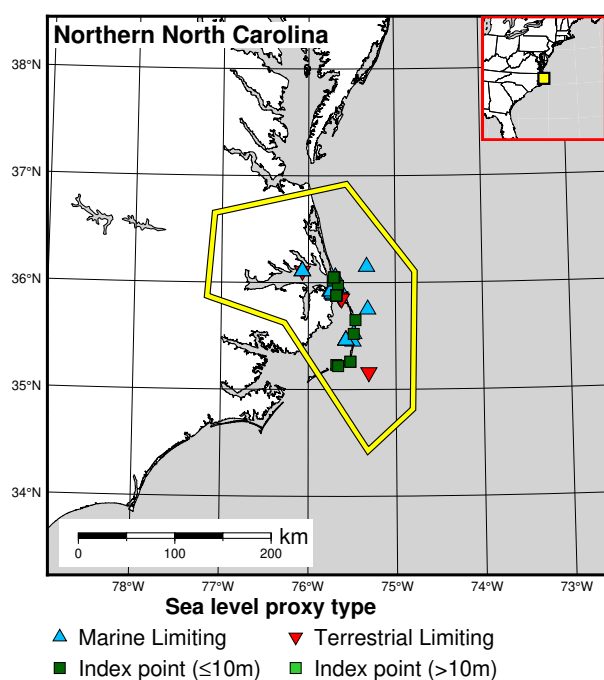


Figure 227: Paleo-sea level and comparison of six models for subregion: Eastern United States, location: Northern North Carolina. References: Emery et al. (1967); Engelhart and Horton (2012); Horton et al. (2009); Kemp (2009); Mallinson et al. (2005); Sears (1973); Stanton (2008).

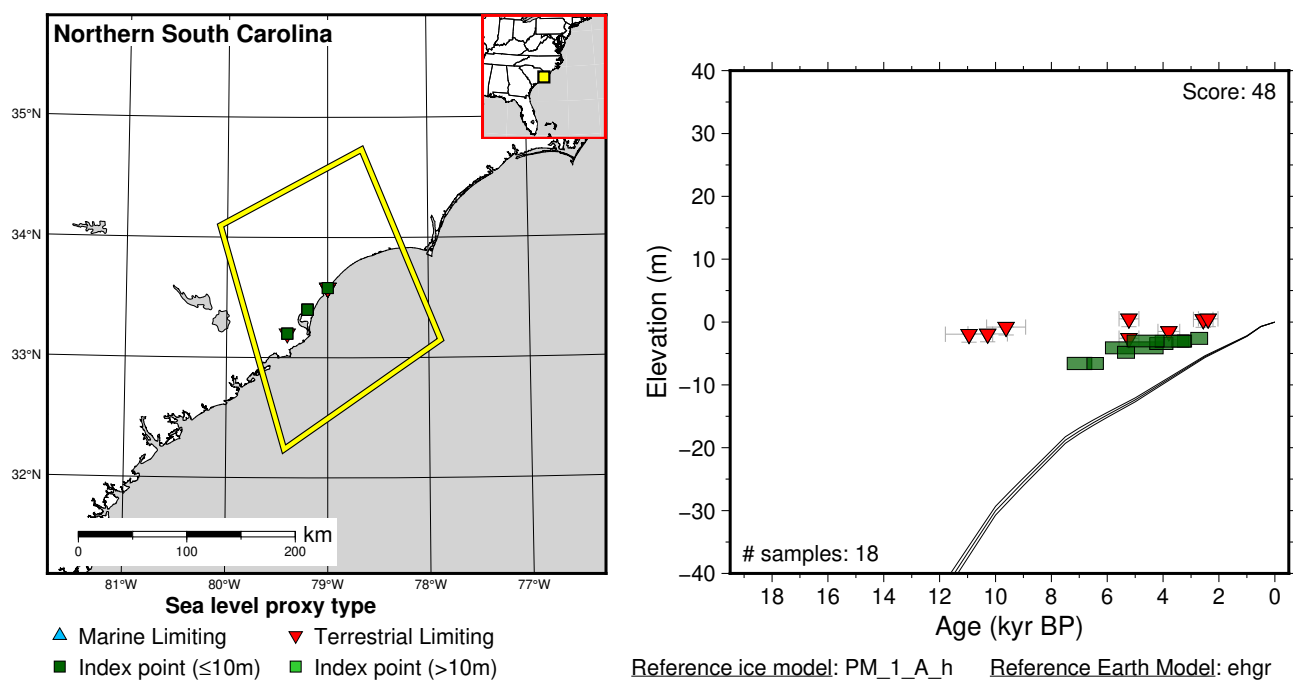


Figure 228: Paleo-sea level and comparison of six models for subregion: Eastern United States, location: Northern South Carolina. References: Cinquemani et al. (1982); Engelhart and Horton (2012); Gayes et al. (1992).

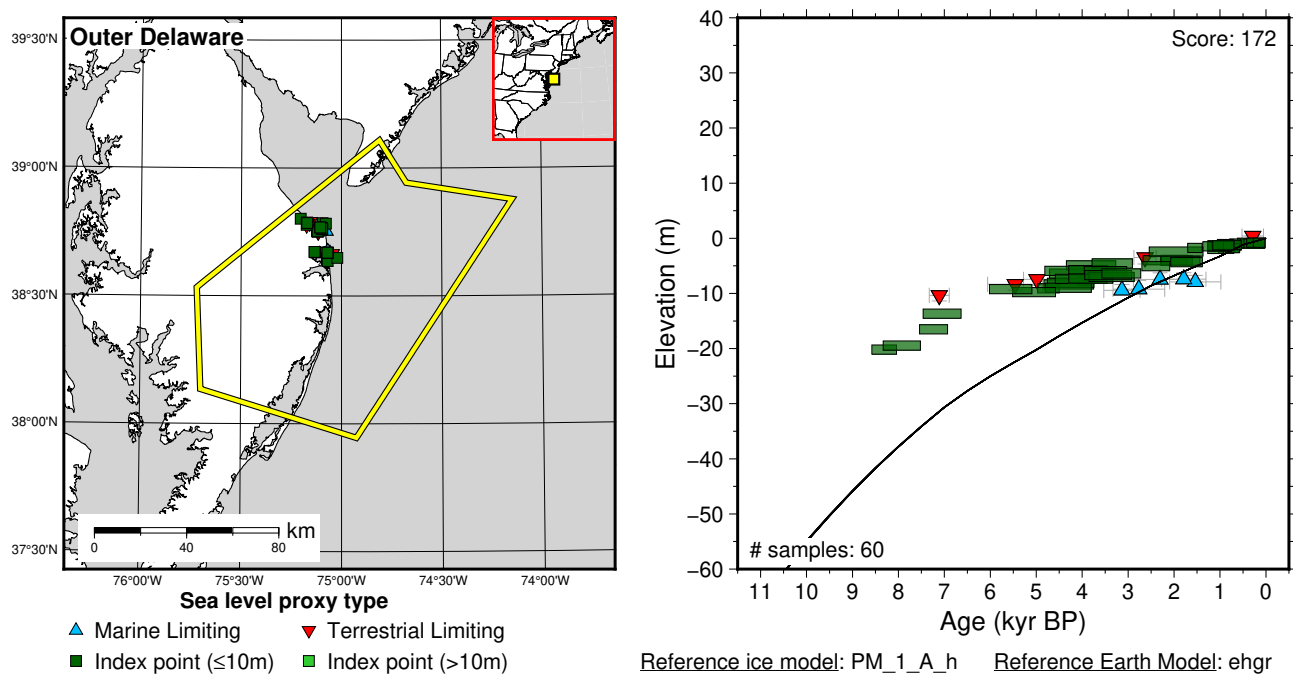


Figure 229: Paleo-sea level and comparison of six models for subregion: Eastern United States, location: Outer Delaware. References: Belknap (1975); Engelhart and Horton (2012); Fletcher et al. (1993); Nikitina et al. (2000); Ramsey and Baxter (1996).

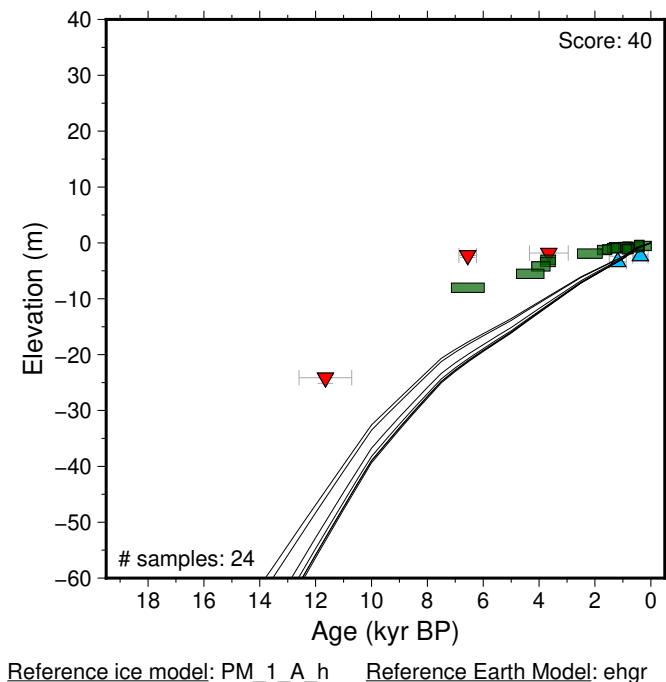
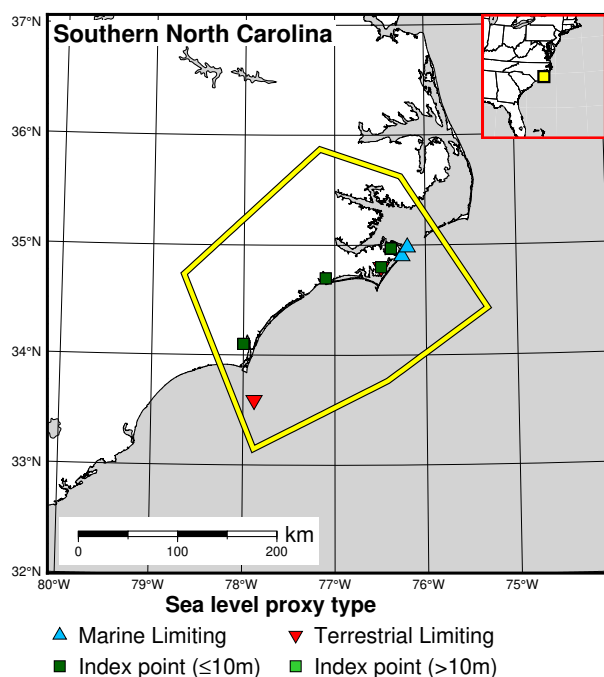


Figure 230: Paleo-sea level and comparison of six models for subregion: Eastern United States, location: Southern North Carolina. References: Cinquemani et al. (1982); Culver et al. (2007); Engelhart and Horton (2012); Field et al. (1979); Horton et al. (2009); Kemp (2009); Spaur and Snyder (1999).

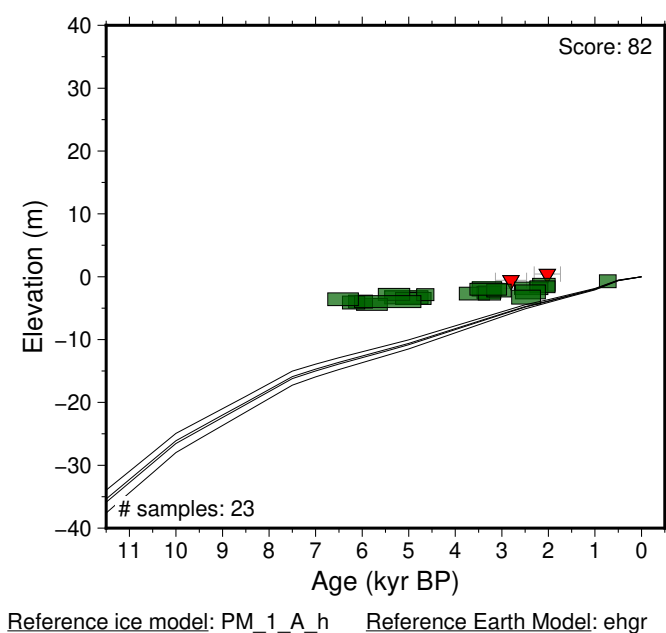
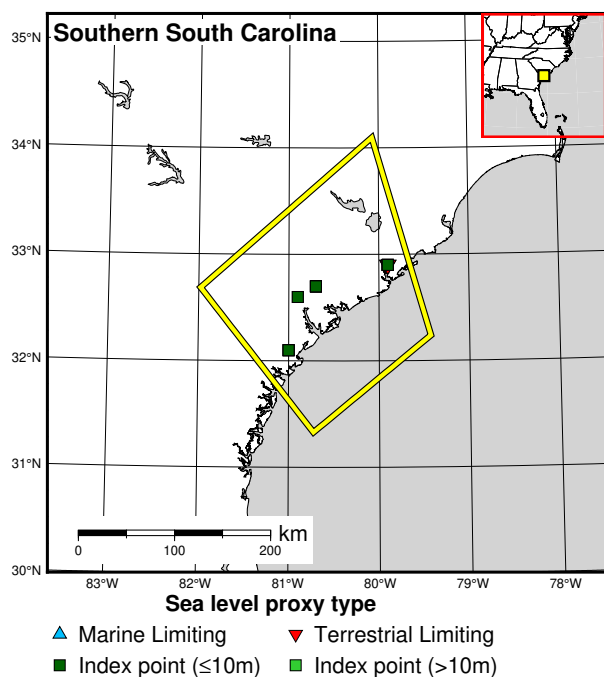


Figure 231: Paleo-sea level and comparison of six models for subregion: Eastern United States, location: Southern South Carolina. References: Cinquemani et al. (1982); Engelhart and Horton (2012).

6.9.2 Labrador

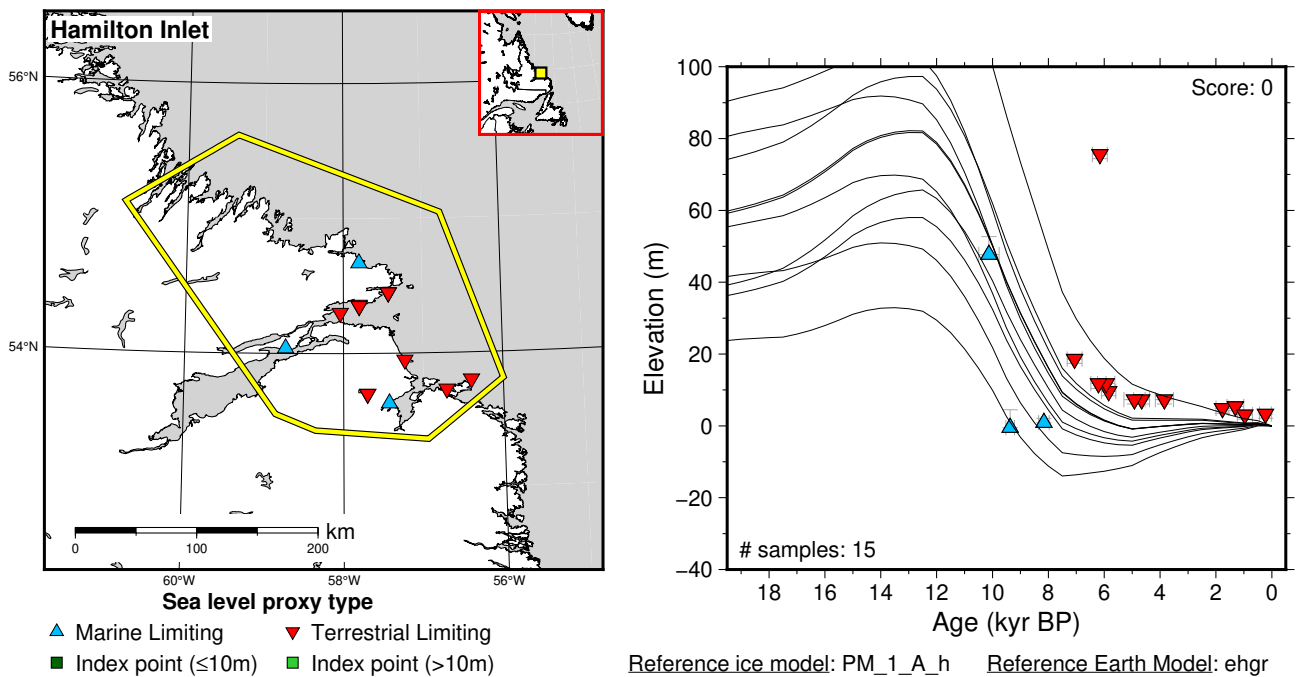


Figure 232: Paleo-sea level and comparison of six models for subregion: Labrador, location: Hamilton Inlet. References: Fitzhugh (1972, 1975); Lowdon and Blake (1975); Martindale et al. (2020); McNeely and Brennan (2005); Vacchi et al. (2018).

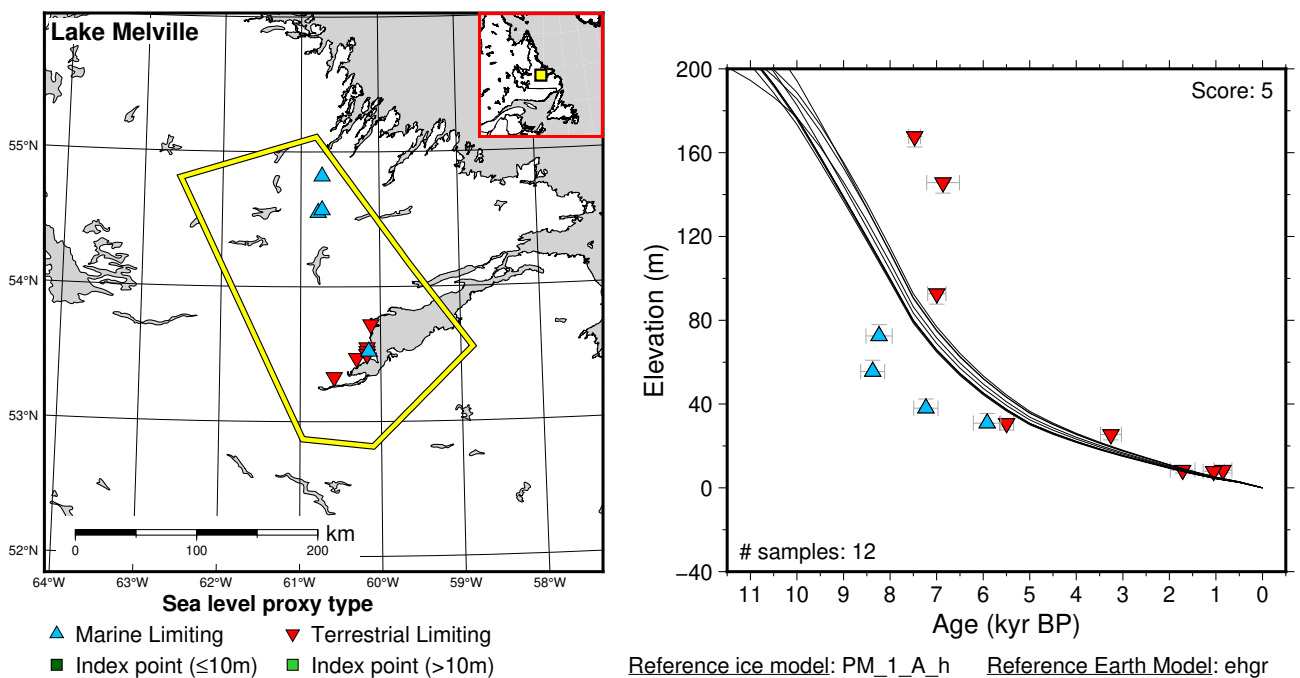


Figure 233: Paleo-sea level and comparison of six models for subregion: Labrador, location: Lake Melville. References: Awadallah and Batterson (1990); Batterson (1996); Jordan (1975); King (1985); Liverman (1997); Lowdon and Blake (1975); Martindale et al. (2020); McNeely and Brennan (2005); Vacchi et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

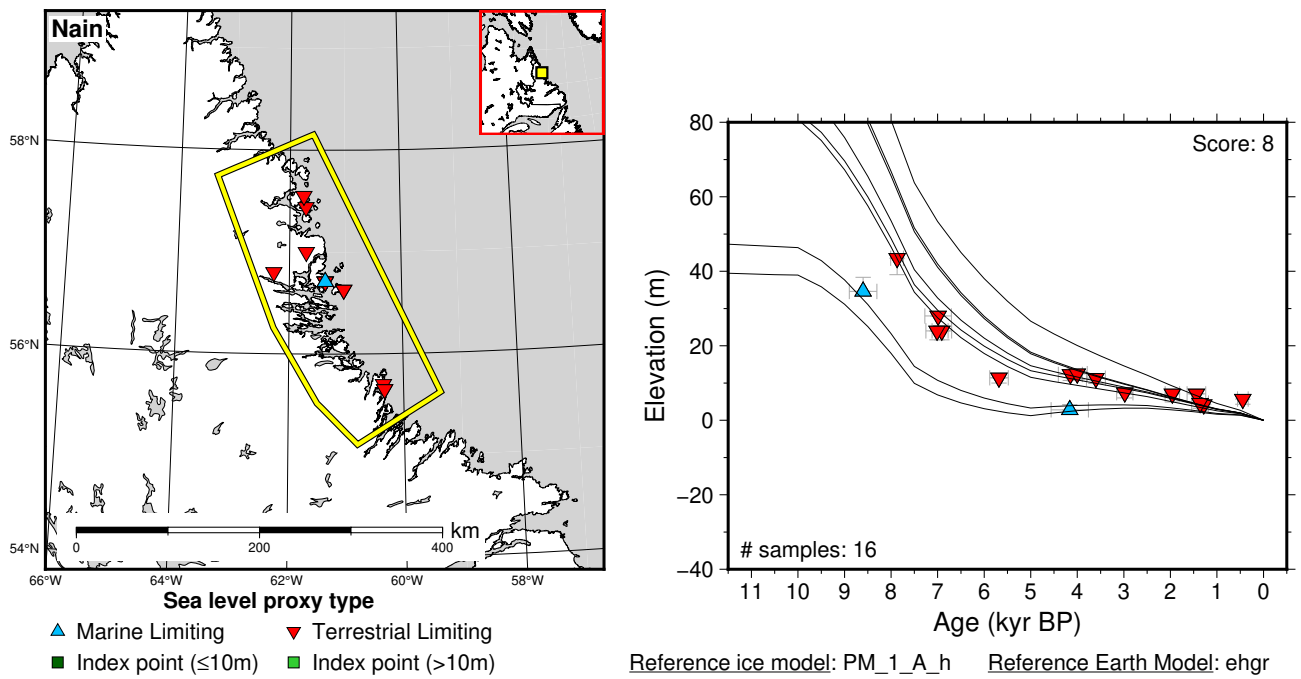


Figure 234: Paleo-sea level and comparison of six models for subregion: Labrador, location: Nain. References: Clark and Fitzhugh (1990); Martindale et al. (2020); Vacchi et al. (2018).

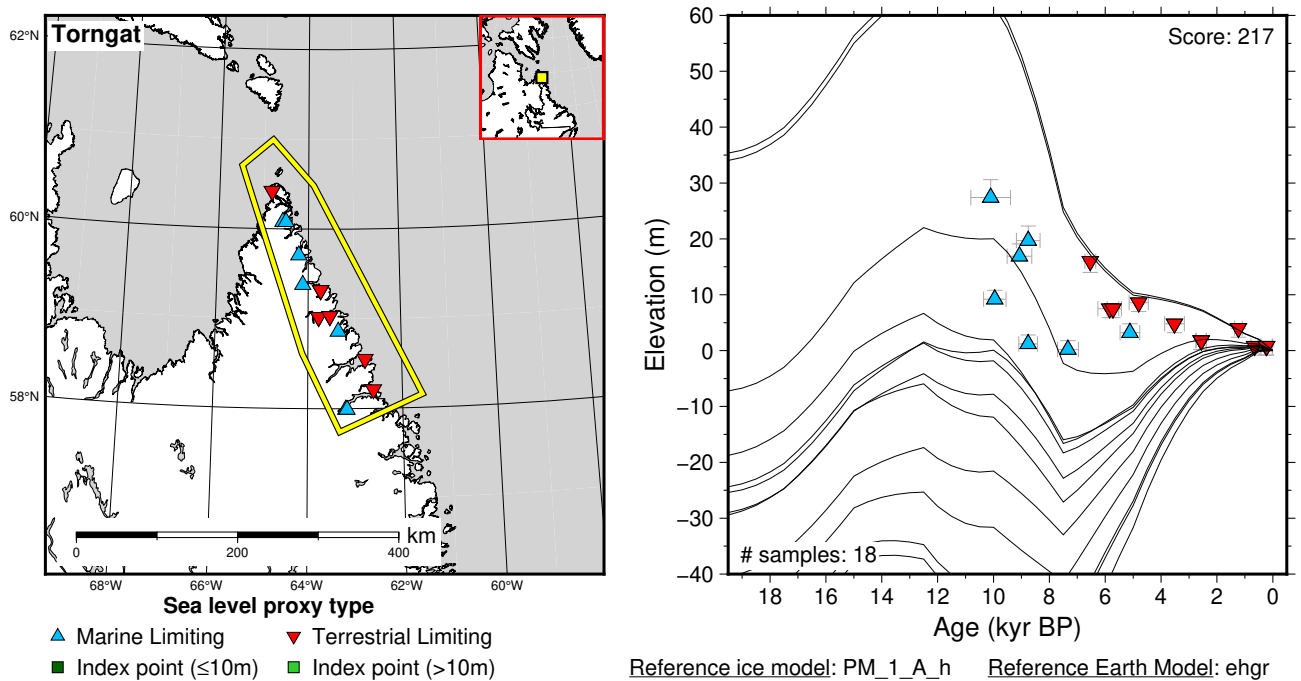


Figure 235: Paleo-sea level and comparison of six models for subregion: Labrador, location: Torngat. References: Dyke et al. (2003); Evans and Rogerson (1988); Lowdon and Blake (1975); Martindale et al. (2020); McNeely and Brennan (2005); Savoie and Gangloff (1980); Vacchi et al. (2018).

6.9.3 Maritimes

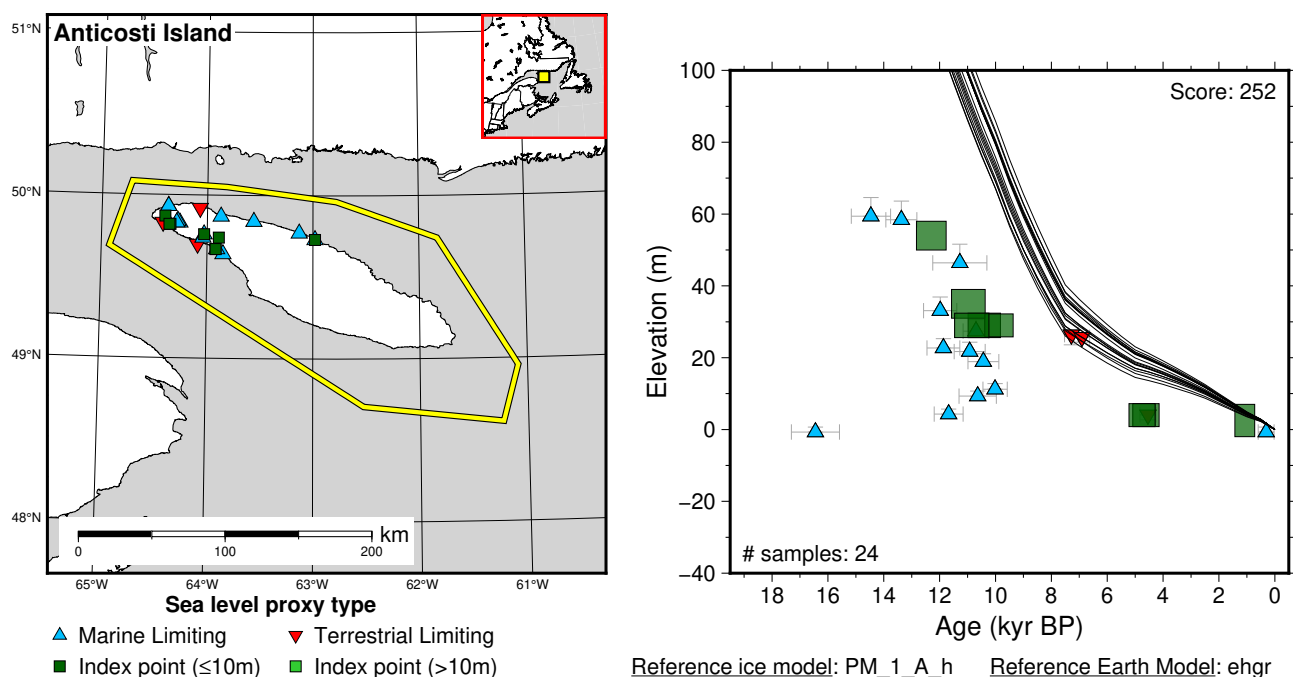


Figure 236: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Anticosti Island. References: Dubois et al. (1988); Lavoie and Fillion (2001); Painchaud et al. (1984); Vacchi et al. (2018).

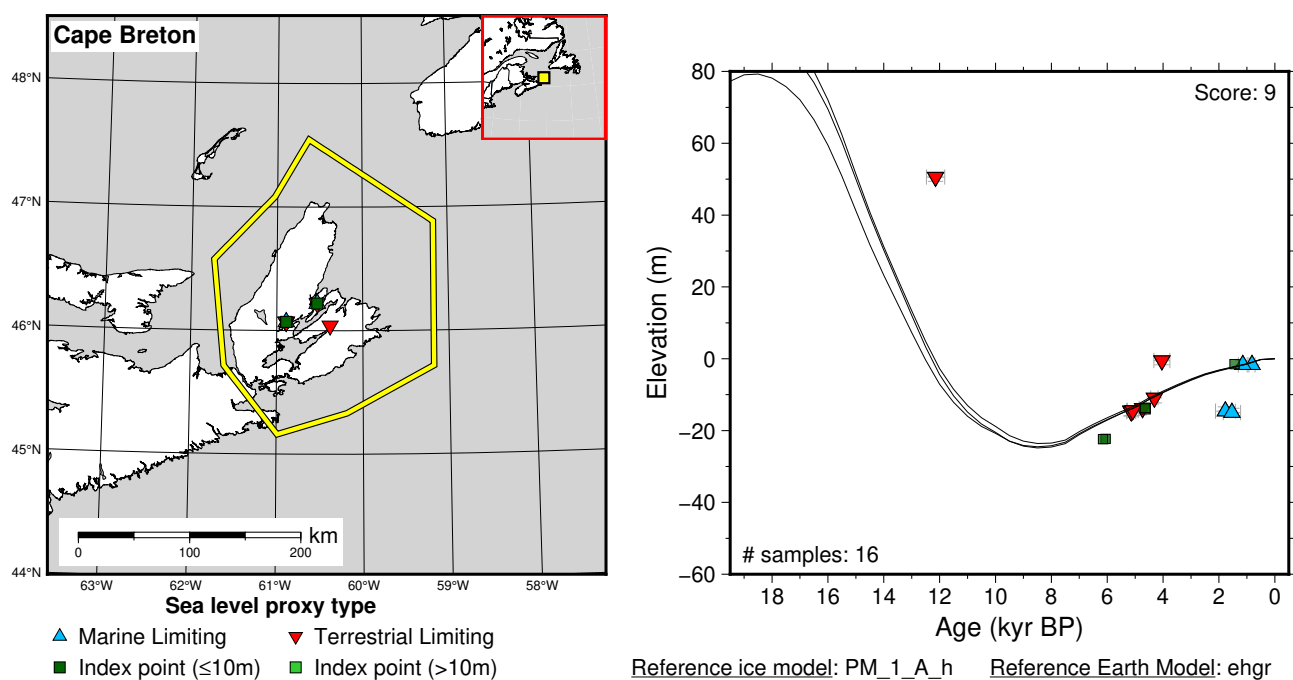


Figure 237: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Cape Breton. References: Blake and Lowdon (1976); Miller and Livingstone (1993); Shaw et al. (2009); Vacchi et al. (2018).

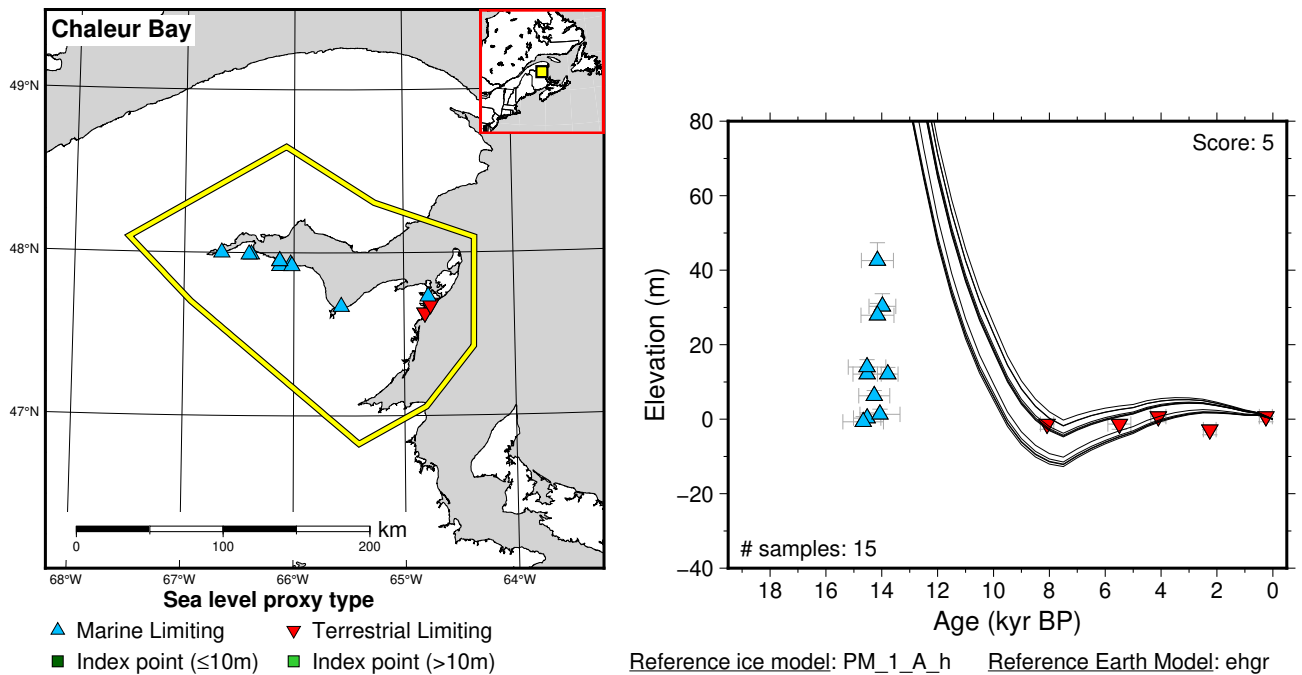


Figure 238: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Chaleur Bay. References: McNeely and Brennan (2005); Rampton et al. (1984); Vacchi et al. (2018).

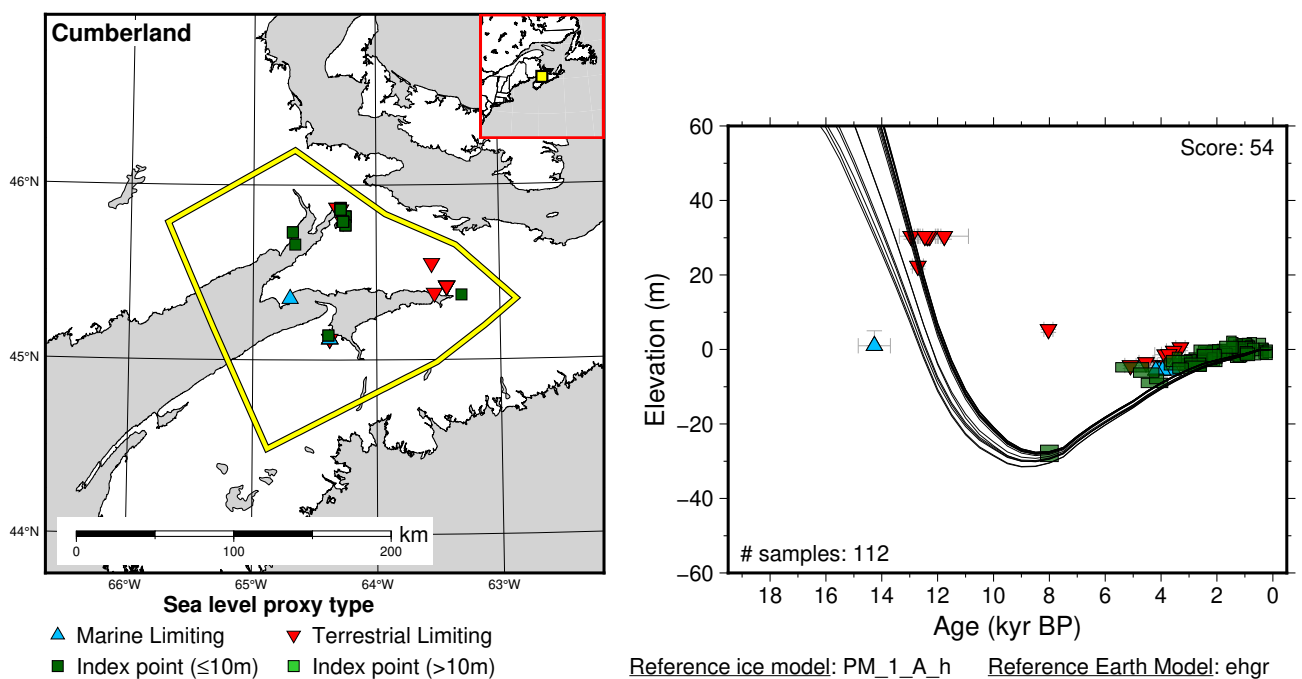


Figure 239: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Cumberland. References: Dalrymple and Zaitlin (1994); Scott and Greenberg (1983); Shaw et al. (2010); Stea and Wightman (1987); Stuckenrath et al. (1966); Vacchi et al. (2018).

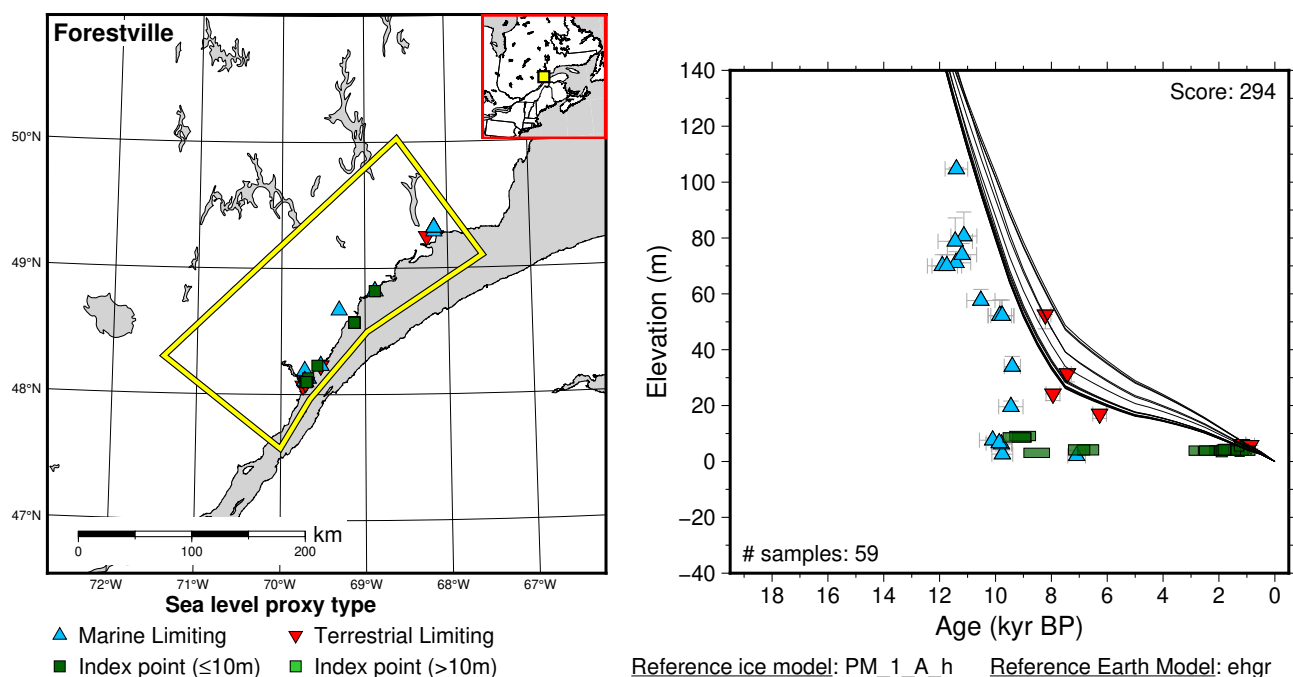


Figure 240: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Forestville. References: Dietrich et al. (2017); Dionne (1996, 2001b); Dionne and Occhietti (1996); Dionne et al. (2004); Dubois et al. (1988); Martindale et al. (2020); Vacchi et al. (2018).

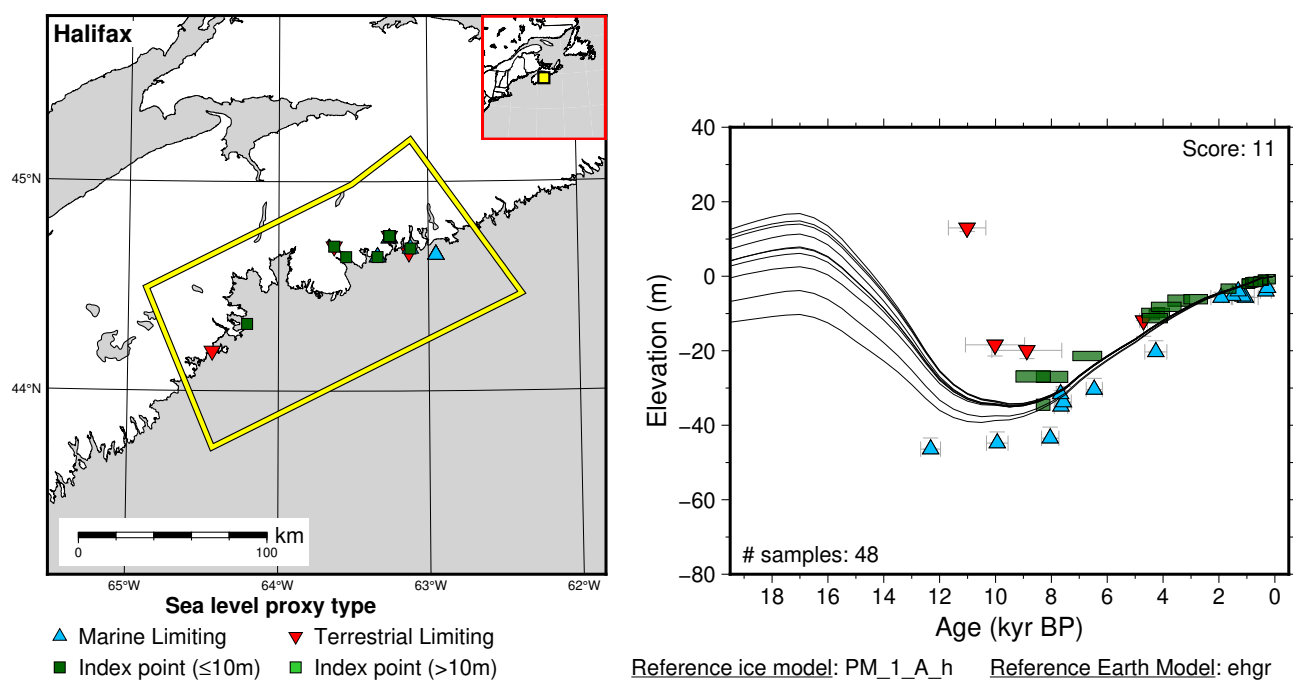


Figure 241: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Halifax. References: Blake (1988); Edgecombe et al. (1999); Gehrels et al. (2004, 2005); Miller et al. (1982); Scott and Medioli (1982); Scott et al. (1995); Shaw et al. (1993); Vacchi et al. (2018).

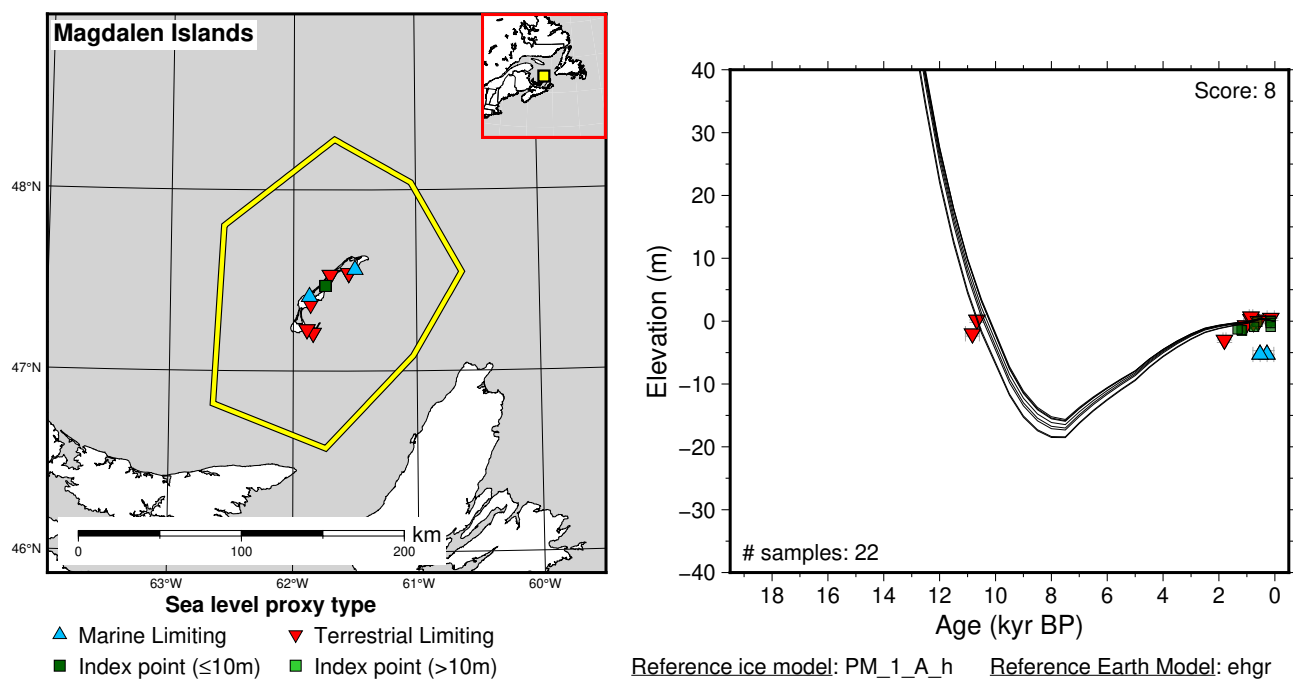


Figure 242: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Magdalen Islands. References: Barnett et al. (2017); Dredge et al. (1992); Rémillard et al. (2016, 2017); Vacchi et al. (2018).

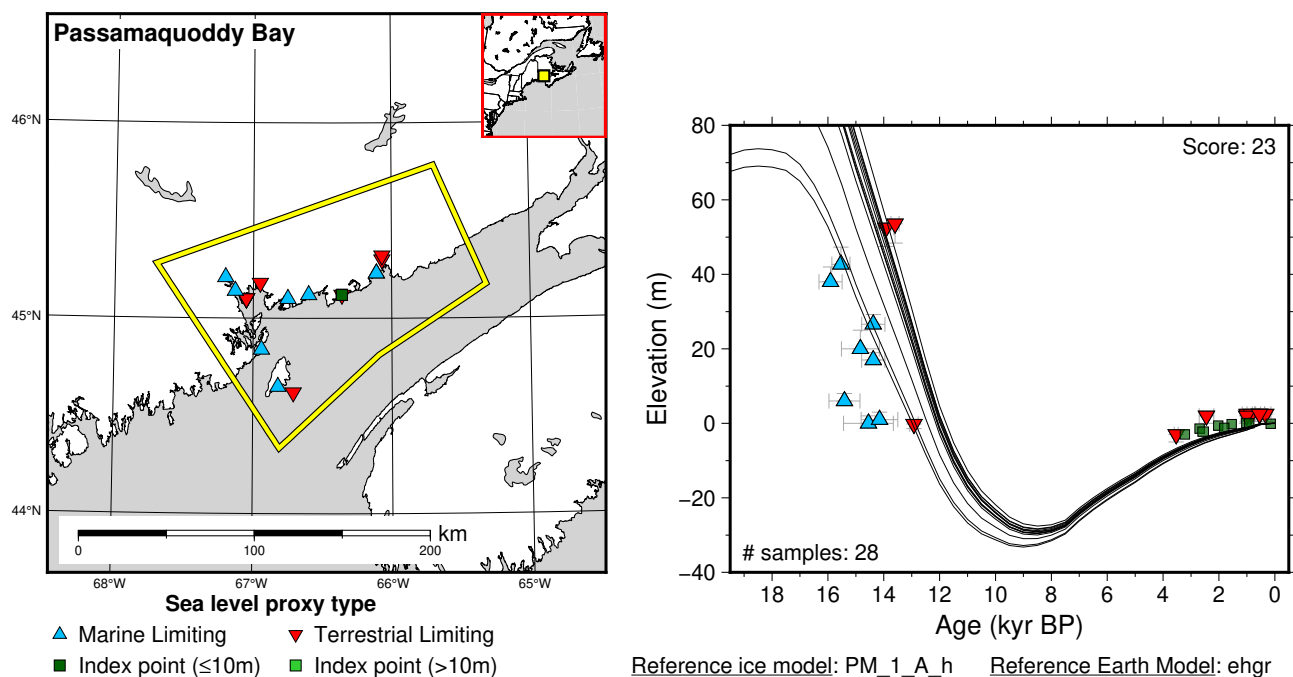


Figure 243: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Passamaquoddy Bay. References: Blake (1984); Gehrels et al. (2004); Martindale et al. (2020); McNeely (2005); Miller (1990); Nicks (1991); Rampton et al. (1984); Seaman (2004); Stea and Mott (1998); Vacchi et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

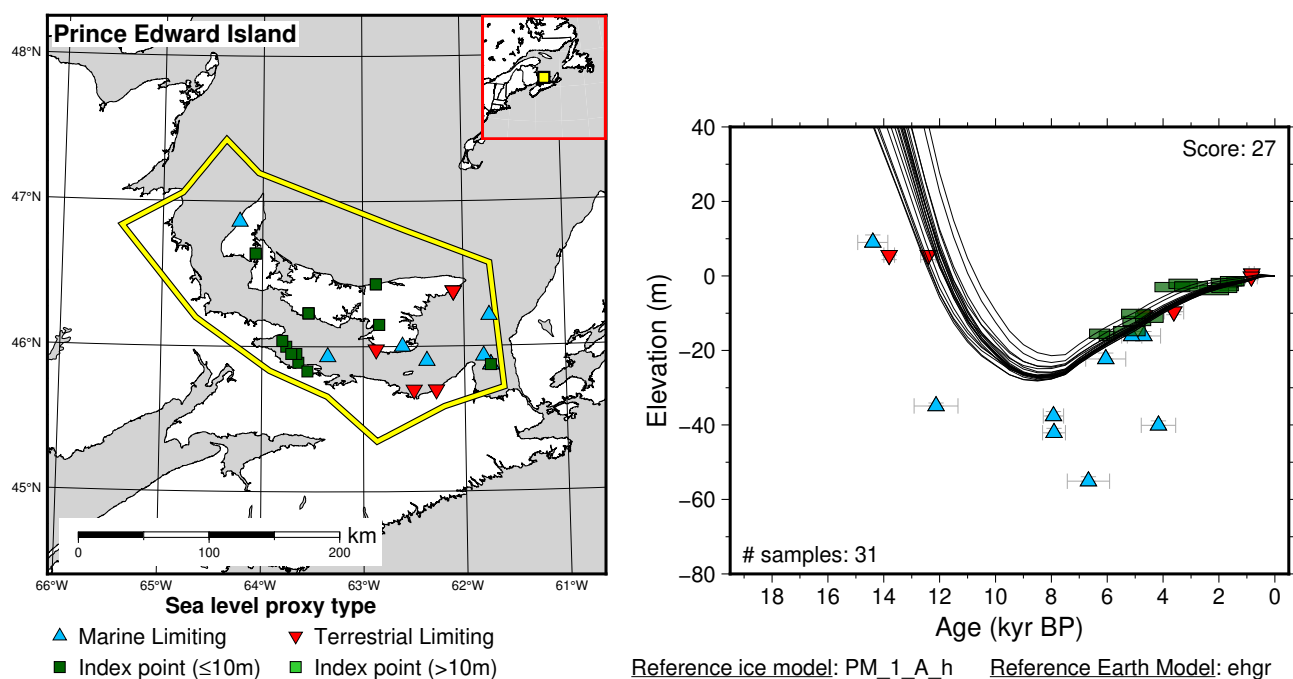


Figure 244: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Prince Edward Island. References: Kranck (1972); McCallum and Wittenberg (1965); McNeely and Brennan (2005); Ogden and Hart (1976); Scott et al. (1981, 1987); Stea and Mott (1989); Vacchi et al. (2018); Walton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

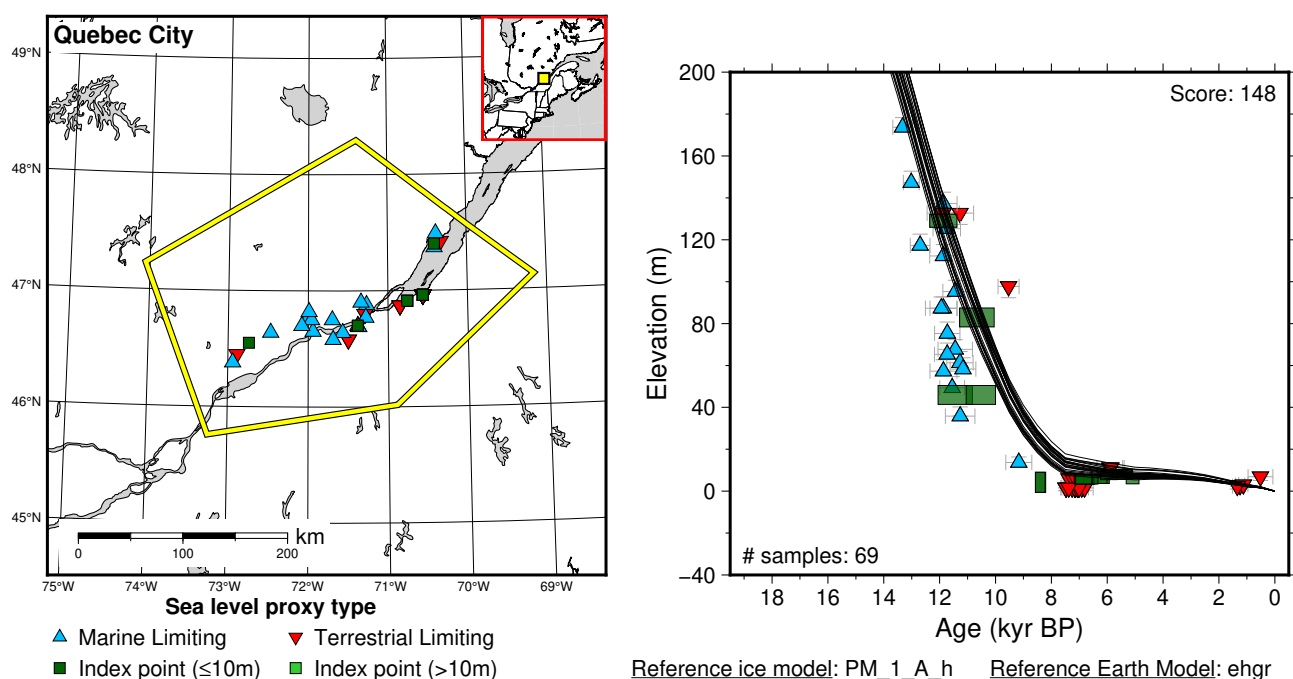


Figure 245: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Quebec City. References: Bhiry et al. (2000); Brodeur and Allard (1985); Dionne (1988, 1997, 1998); Filion (1987); Govare and Gangloff (1989); McNeely (2006); McNeely and Brennan (2005); Occhietti et al. (2001);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

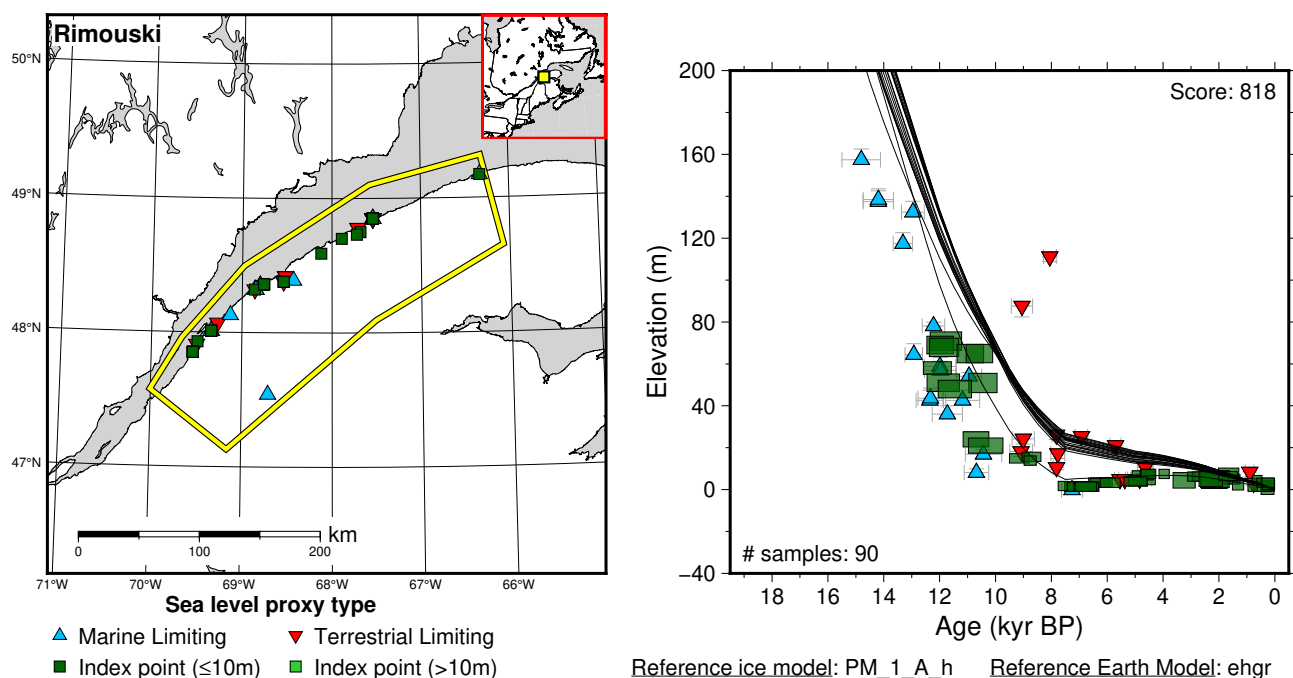


Figure 246: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Rimouski. References: Blake and Lowdon (1976); Dionne (1990, 1999, 2001a, 2005); Dionne and Coll (1995); Dyck and Fyles (1963); Harington (2003); Hétu (1998); Hétu and Bail (1996); Hétu (1994); Locat (1977);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

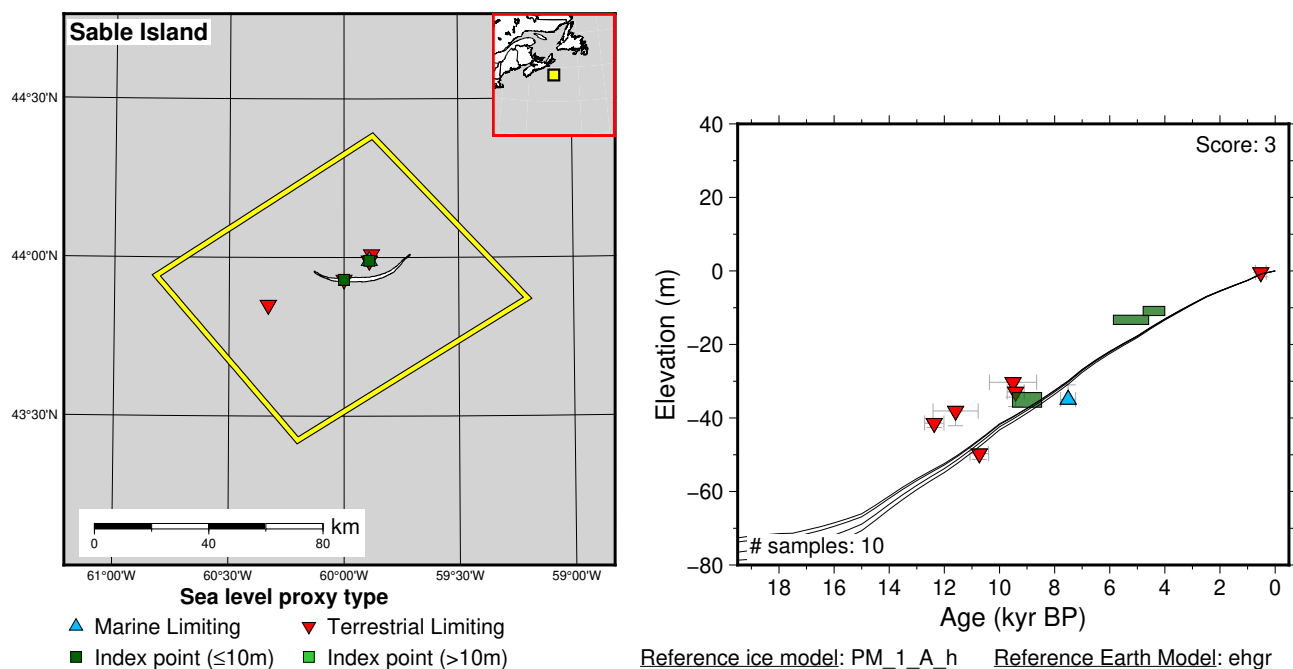


Figure 247: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Sable Island. References: Amos and Miller (1990); Scott et al. (1984, 1989); Vacchi et al. (2018).

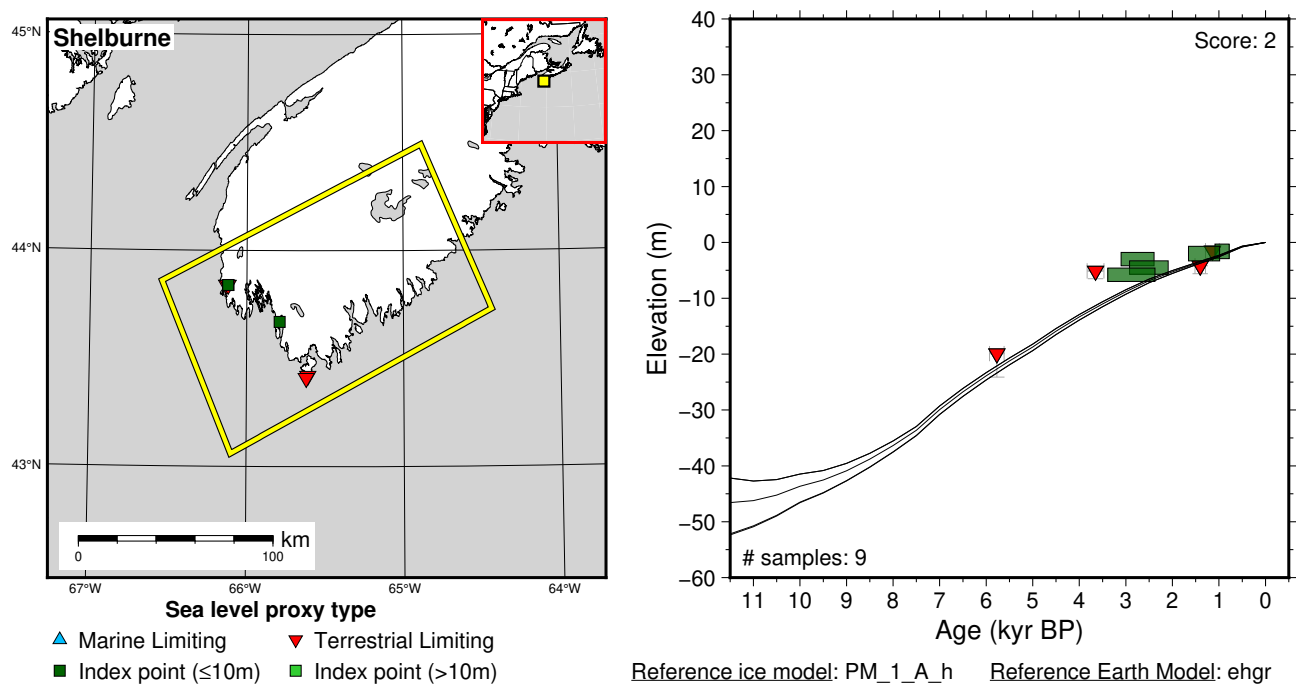


Figure 248: Paleo-sea level and comparison of six models for subregion: Maritimes, location: Shelburne. References: Blake (1983); Lowdon and Blake (1970); Scott and Greenberg (1983); Vacchi et al. (2018).

6.9.4 Newfoundland

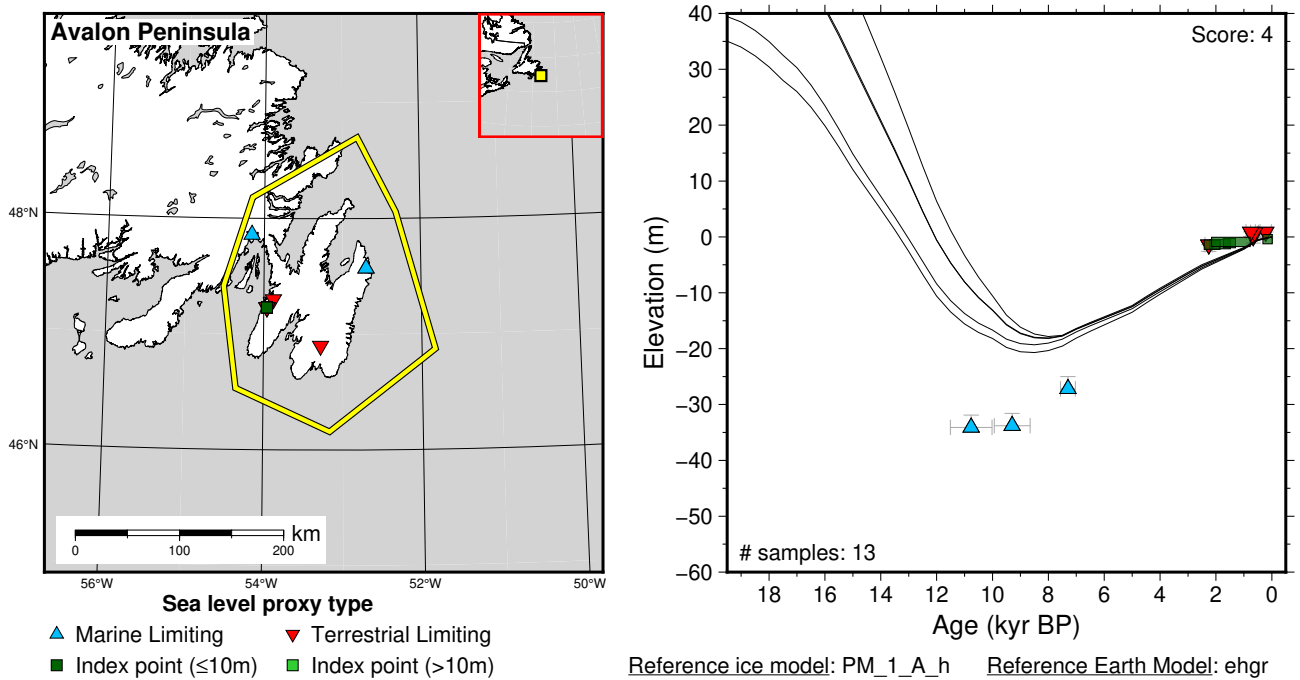


Figure 249: Paleo-sea level and comparison of six models for subregion: Newfoundland, location: Avalon Peninsula. References: Catto et al. (2000); Daly et al. (2007); MacPherson (1996); McNeely (2006); Shaw and Forbes (1995); Vacchi et al. (2018).

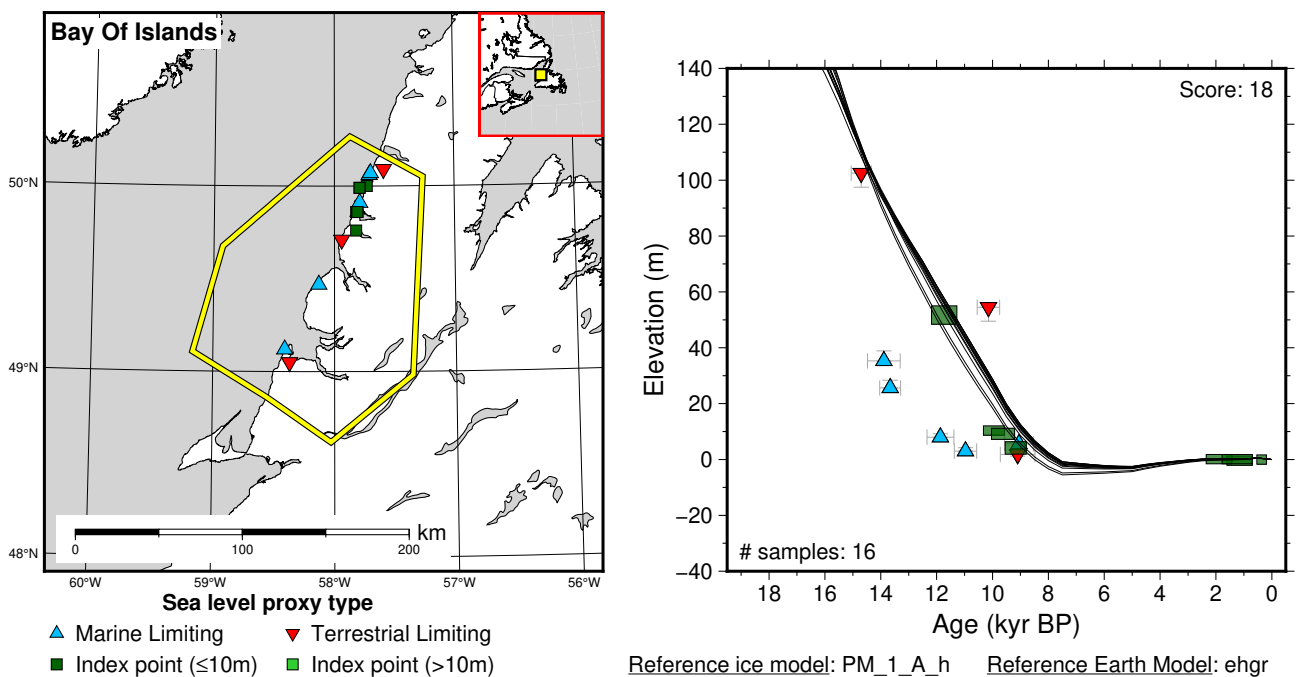


Figure 250: Paleo-sea level and comparison of six models for subregion: Newfoundland, location: Bay Of Islands. References: Brookes et al. (1985); Brookes and Stevens (1985); Daly et al. (2007); Grant (1994); McNeely and Brennan (2005); McNeely and McCuaig (1991); Vacchi et al. (2018).

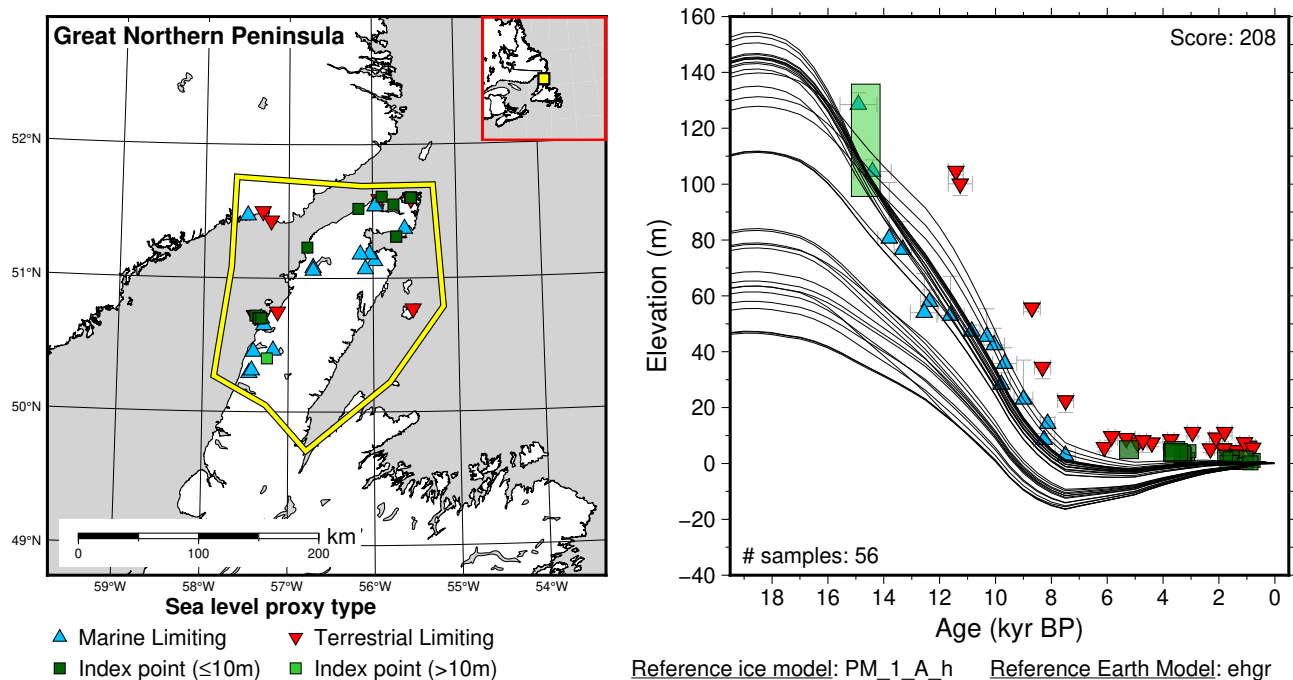


Figure 251: Paleo-sea level and comparison of six models for subregion: Newfoundland, location: Great Northern Peninsula. References: Bell et al. (2005); Grant (1992, 1994); Martindale et al. (2020); McNeely and Jorgensen (1993); McNeely and McCuaig (1991); Nydal (1989); Tuck (1971); Vacchi et al. (2018).

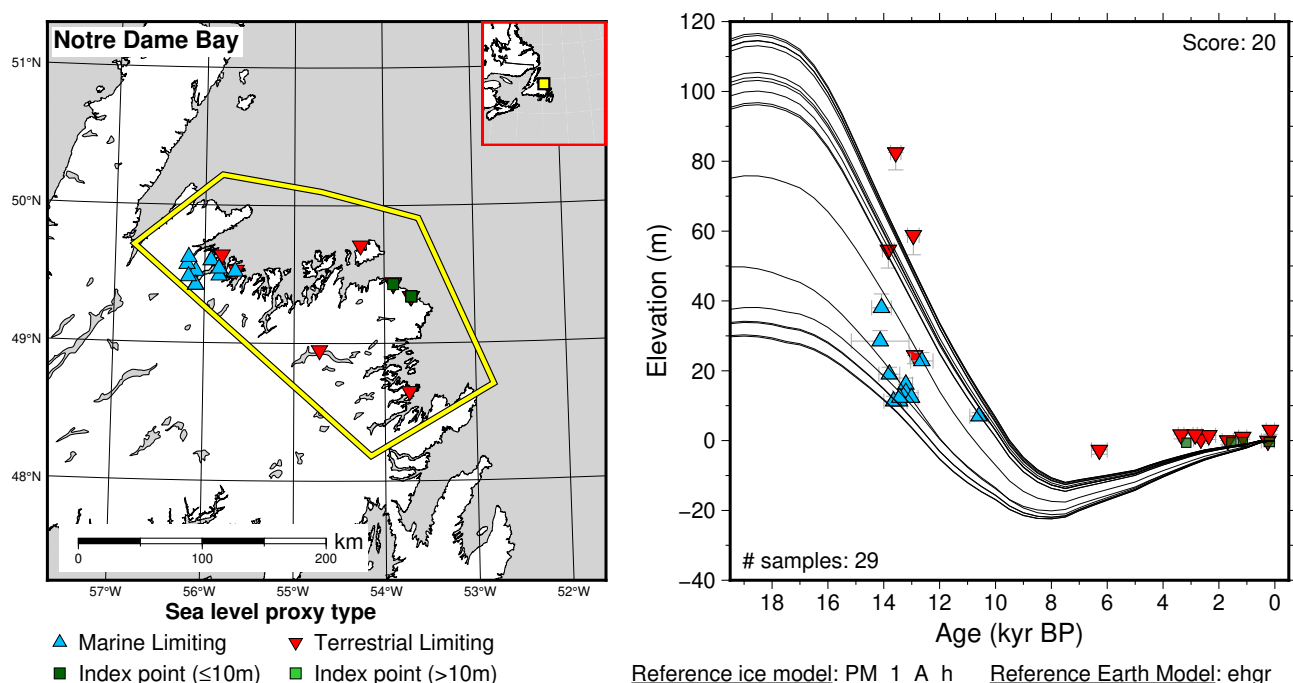


Figure 252: Paleo-sea level and comparison of six models for subregion: Newfoundland, location: Notre Dame Bay. References: Blake (1983); Daly et al. (2007); Dyck and Fyles (1963); McNeely and Brennan (2005); McNeely and McCuaig (1991); Scott et al. (1991); Shaw and Edwardson (1994); Vacchi et al. (2018).

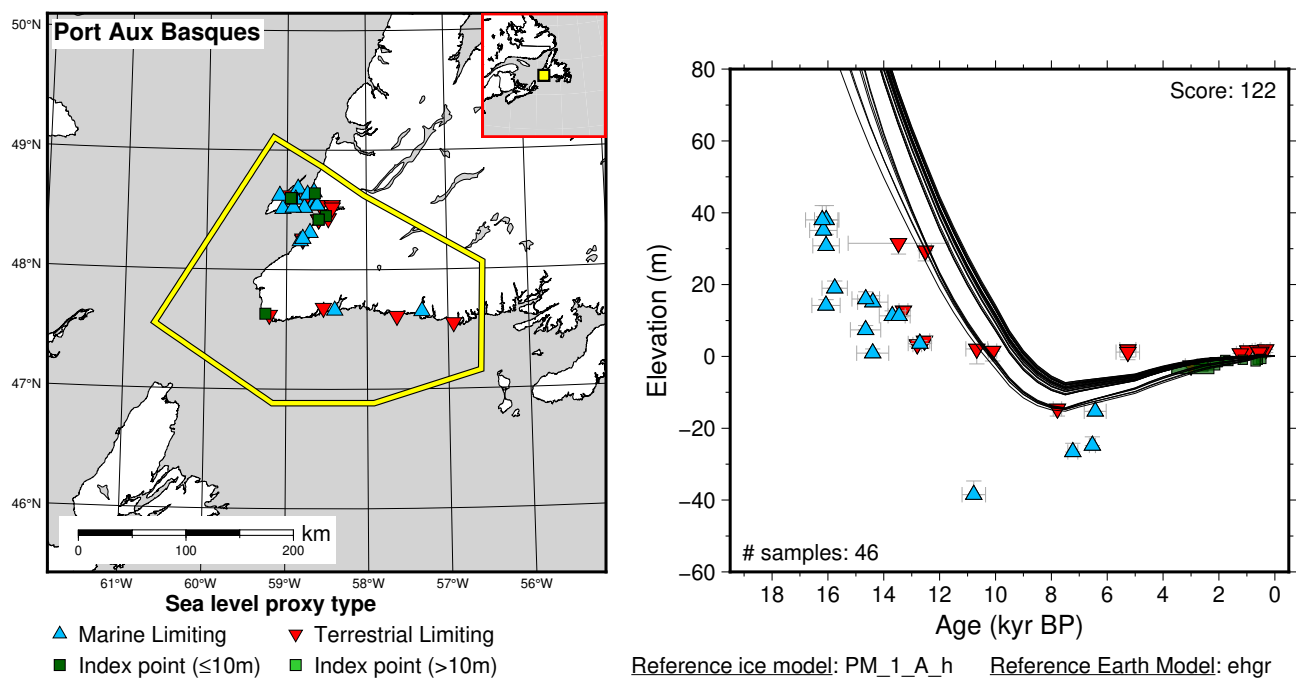


Figure 253: Paleo-sea level and comparison of six models for subregion: Newfoundland, location: Port Aux Basques. References: Bell et al. (2003); Blake (1988); Brookes et al. (1985); Daly et al. (2007); Dyke et al. (2003); Forbes et al. (1993); Kemp et al. (2017); Lowdon and Blake (1980); Lowdon et al. (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

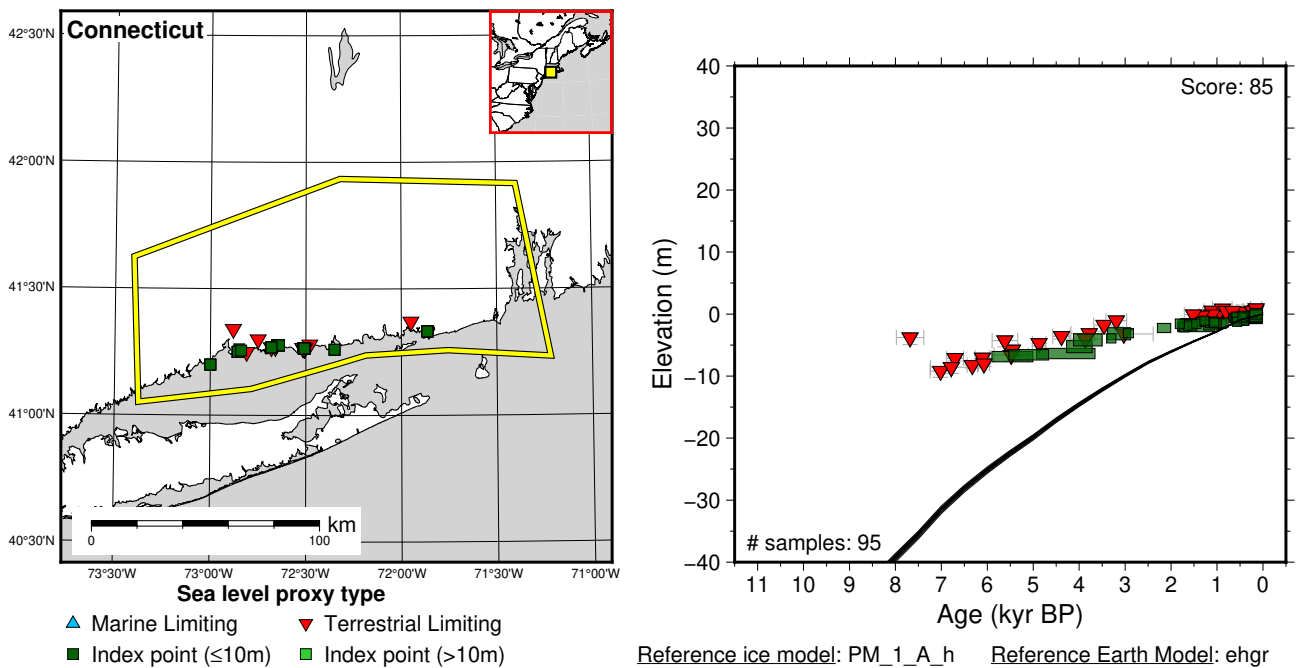


Figure 254: Paleo-sea level and comparison of six models for subregion: Northeastern United States, location: Connecticut. References: Bloom (1963); Cinquemani et al. (1982); Donnelly et al. (2004); Engelhart and Horton (2012); Nydick et al. (1995); Redfield and Rubin (1962); van de Plassche (1991);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

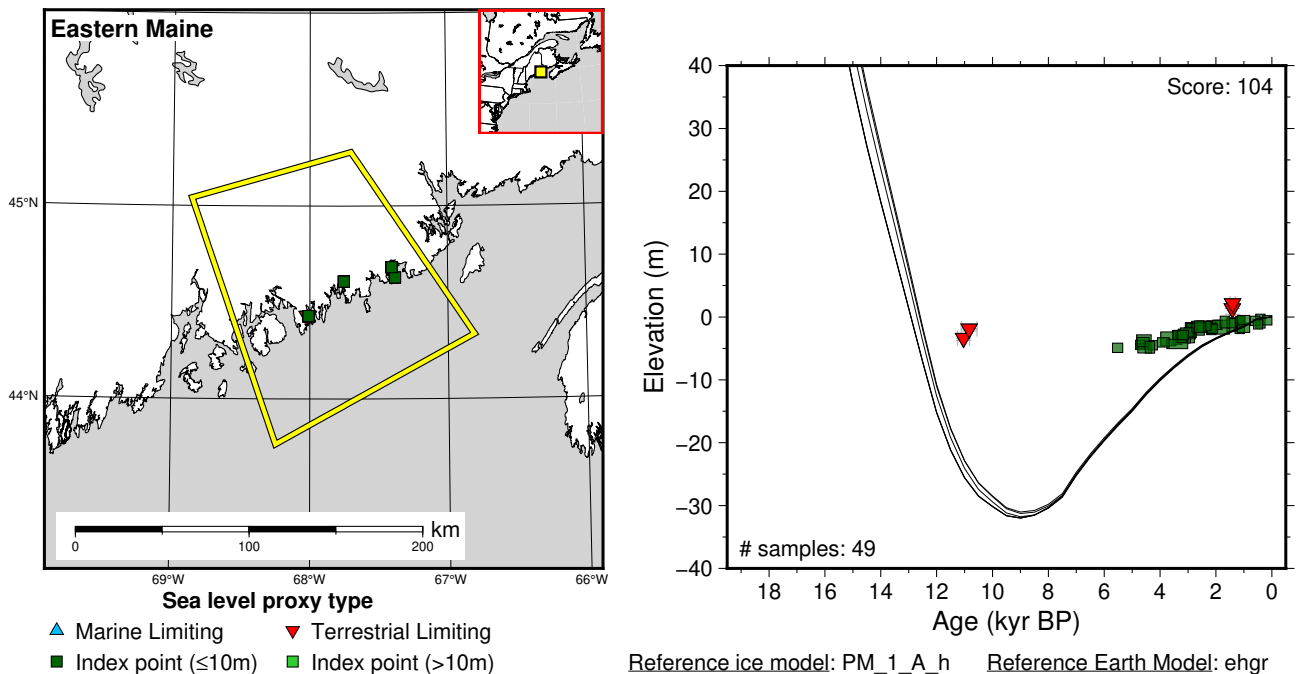


Figure 255: Paleo-sea level and comparison of six models for subregion: Northeastern United States, location: Eastern Maine. References: Belknap et al. (1989); Engelhart and Horton (2012); Gehrels (1999); Gehrels and Belknap (1993); Gehrels et al. (1996).

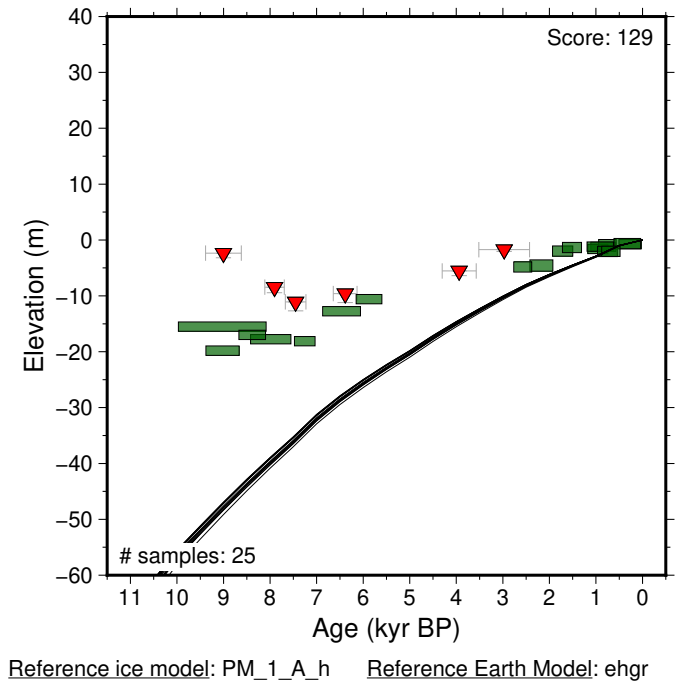
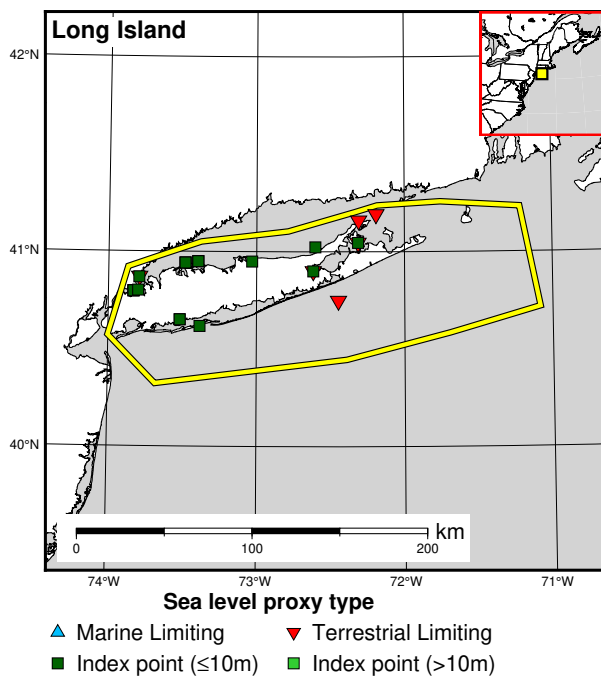


Figure 256: Paleo-sea level and comparison of six models for subregion: Northeastern United States, location: Long Island. References: Bloom (1963); Cinquemani et al. (1982); Engelhart and Horton (2012); Field et al. (1979); Pardi and Newman (1980); Pardi et al. (1984); Redfield (1967); Redfield and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

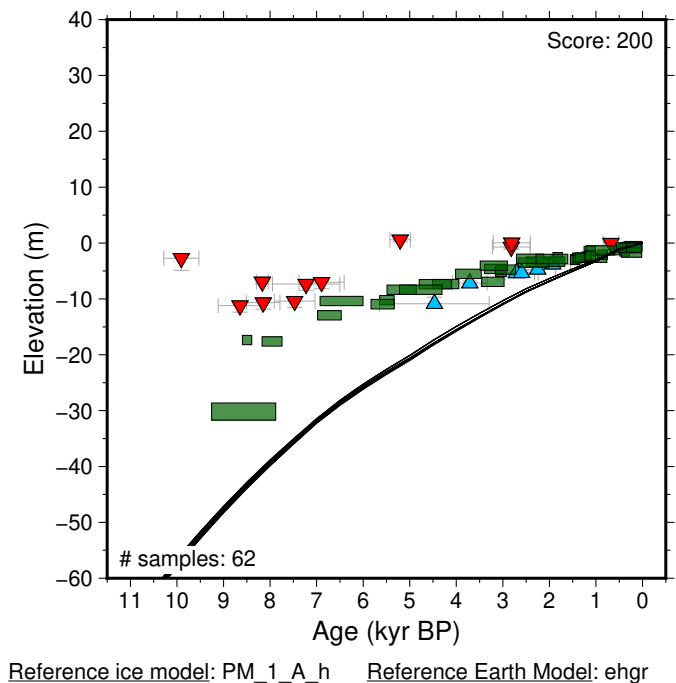
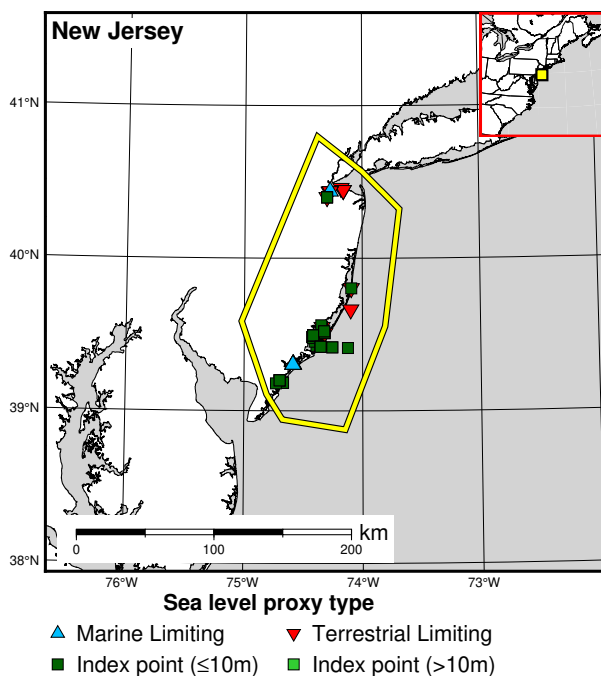


Figure 257: Paleo-sea level and comparison of six models for subregion: Northeastern United States, location: New Jersey. References: Cinquemani et al. (1982); Donnelly et al. (2001); Engelhart and Horton (2012); Field et al. (1979); Miller et al. (2009); Pardi et al. (1984); Psuty (1986); Stuiver and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

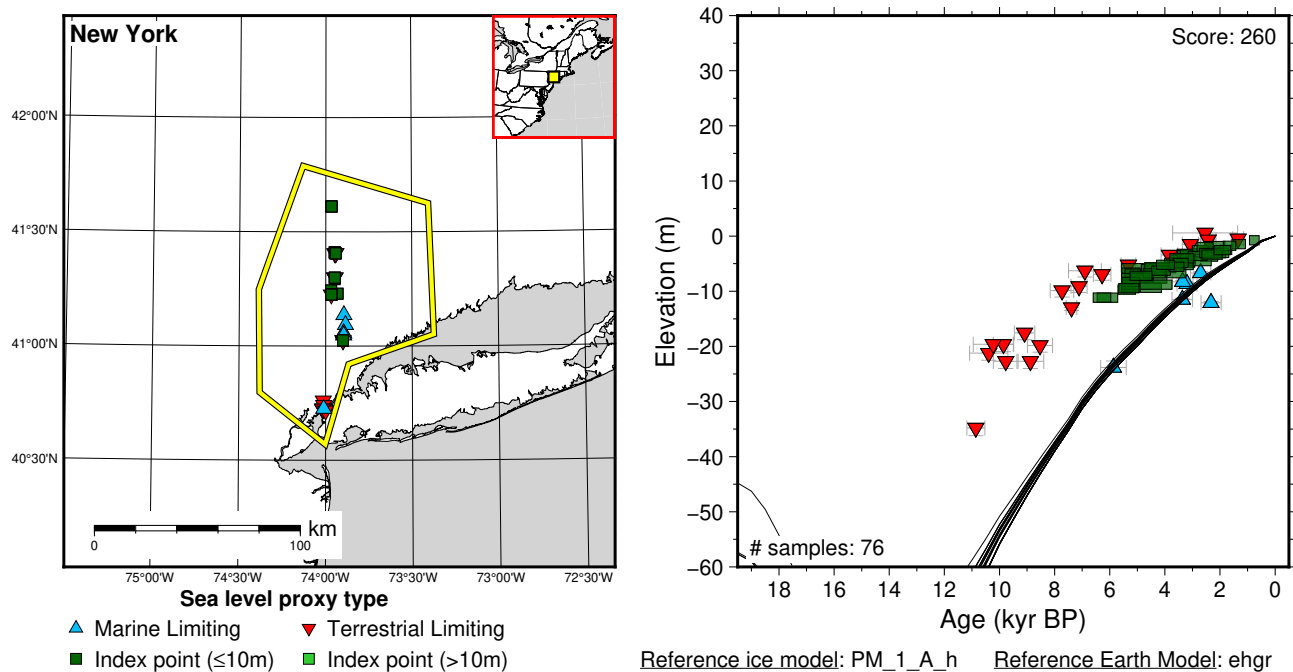


Figure 258: Paleo-sea level and comparison of six models for subregion: Northeastern United States, location: New York. References: Engelhart and Horton (2012); Olson and Broecker (1961); Pardi et al. (1984); Slagle et al. (2006).

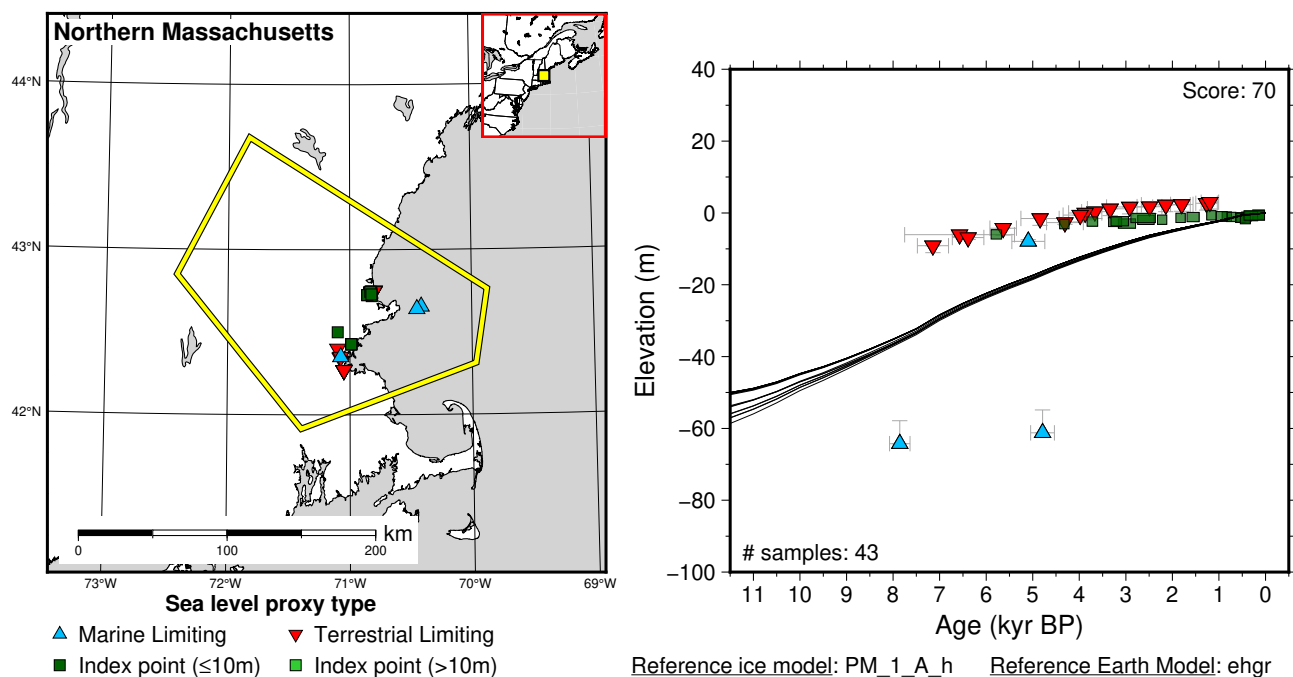


Figure 259: Paleo-sea level and comparison of six models for subregion: Northeastern United States, location: Northern Massachusetts. References: Donnelly (2006); Engelhart and Horton (2012); Kaye and Barghoorn (1964); Kirwan et al. (2011); Newman et al. (1980); Oldale et al. (1993); Redfield (1967);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

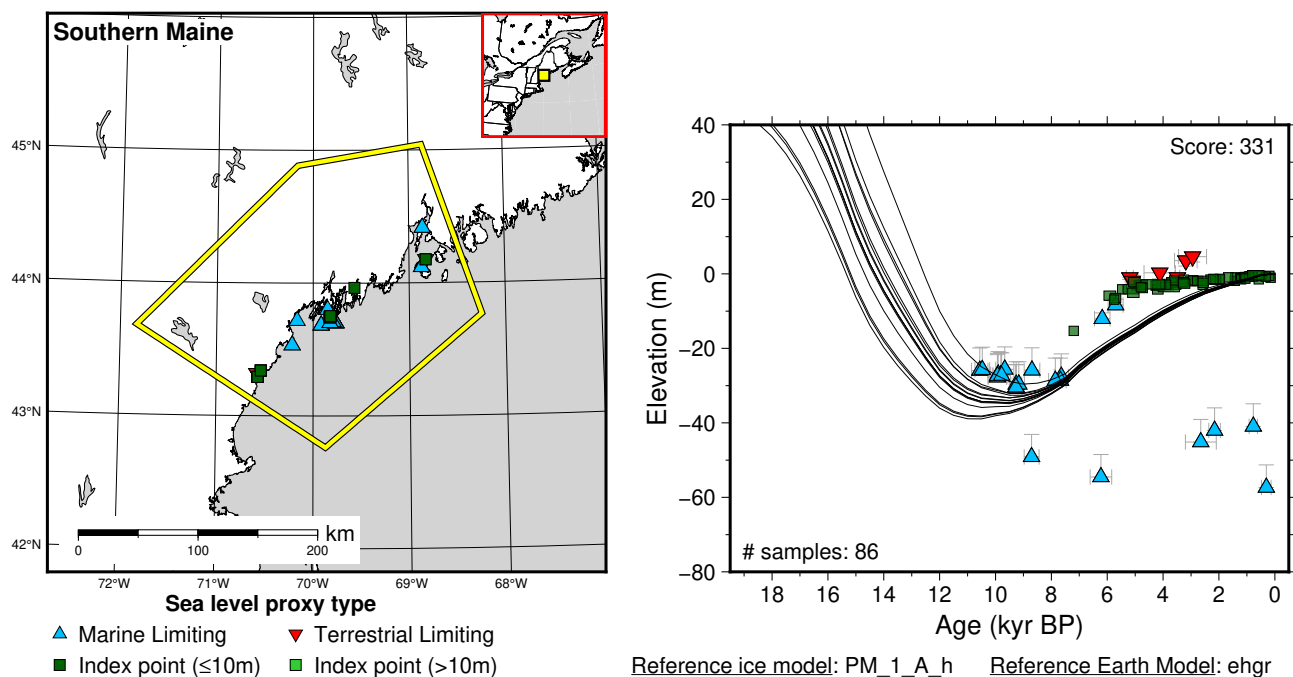


Figure 260: Paleo-sea level and comparison of six models for subregion: Northeastern United States, location: Southern Maine. References: Barnhardt et al. (1995); Belknap et al. (1989); Bloom (1963); Engelhart and Horton (2012); Gehrels et al. (1996, 2002); Kelley et al. (1992, 1995).

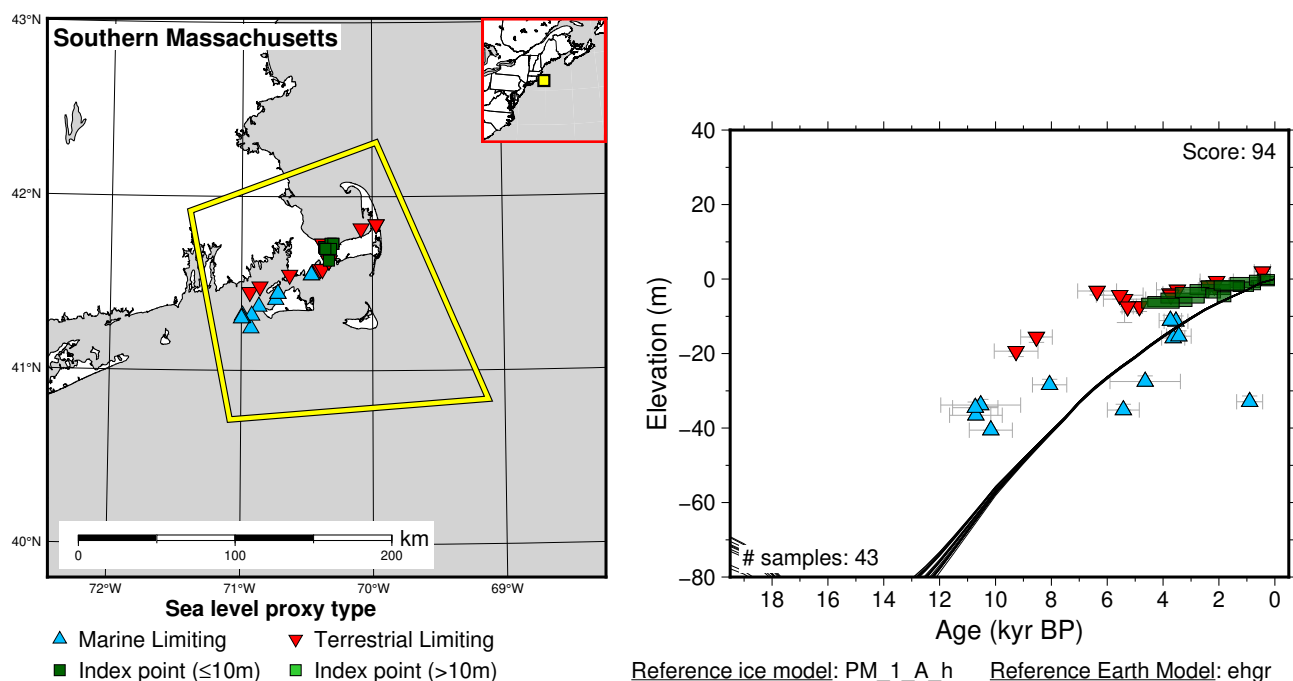


Figure 261: Paleo-sea level and comparison of six models for subregion: Northeastern United States, location: Southern Massachusetts. References: Emery et al. (1967); Engelhart and Horton (2012); Field et al. (1979); Gutierrez et al. (2003); Oldale and O'Hara (1980); Redfield (1967); Redfield and Rubin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

6.10 Pacific Islands

6.10.1 French Polynesia

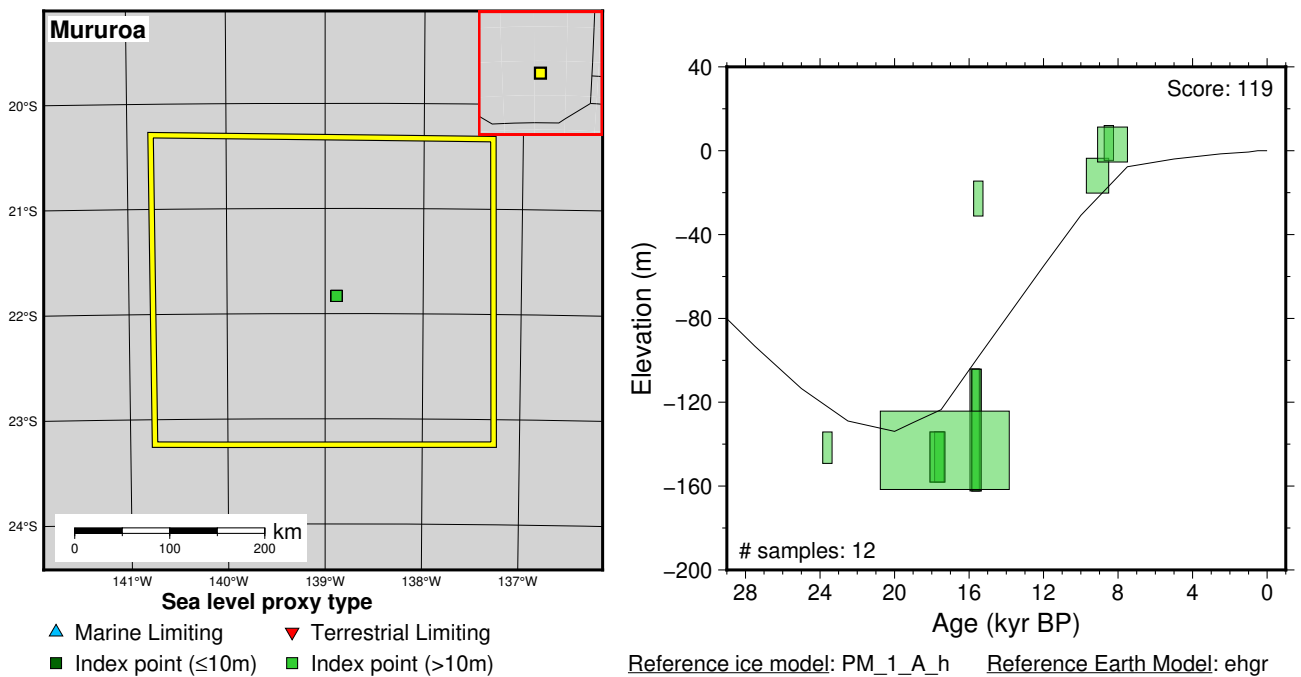


Figure 262: Paleo-sea level and comparison of six models for subregion: French Polynesia, location: Mururoa. References: Camoin et al. (2001); Hibbert et al. (2016).

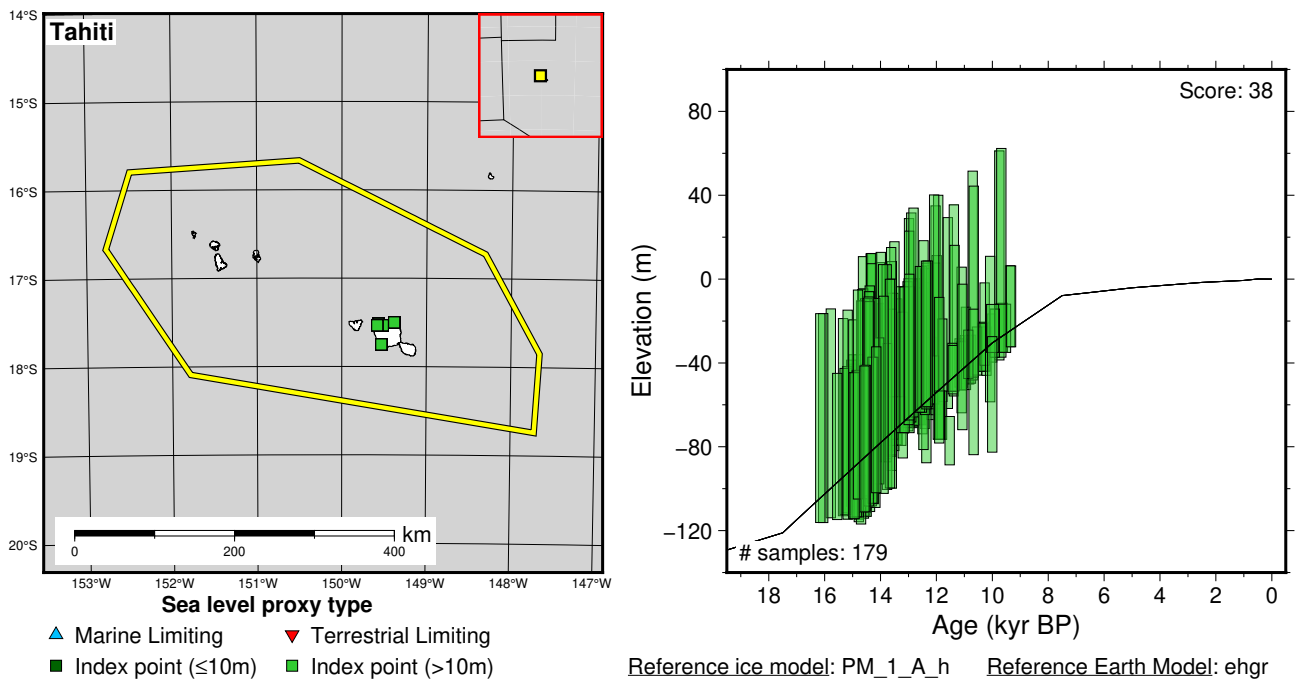


Figure 263: Paleo-sea level and comparison of six models for subregion: French Polynesia, location: Tahiti. References: Bard et al. (1996, 2010); Deschamps et al. (2012); Hibbert et al. (2016).

6.10.2 Melansia

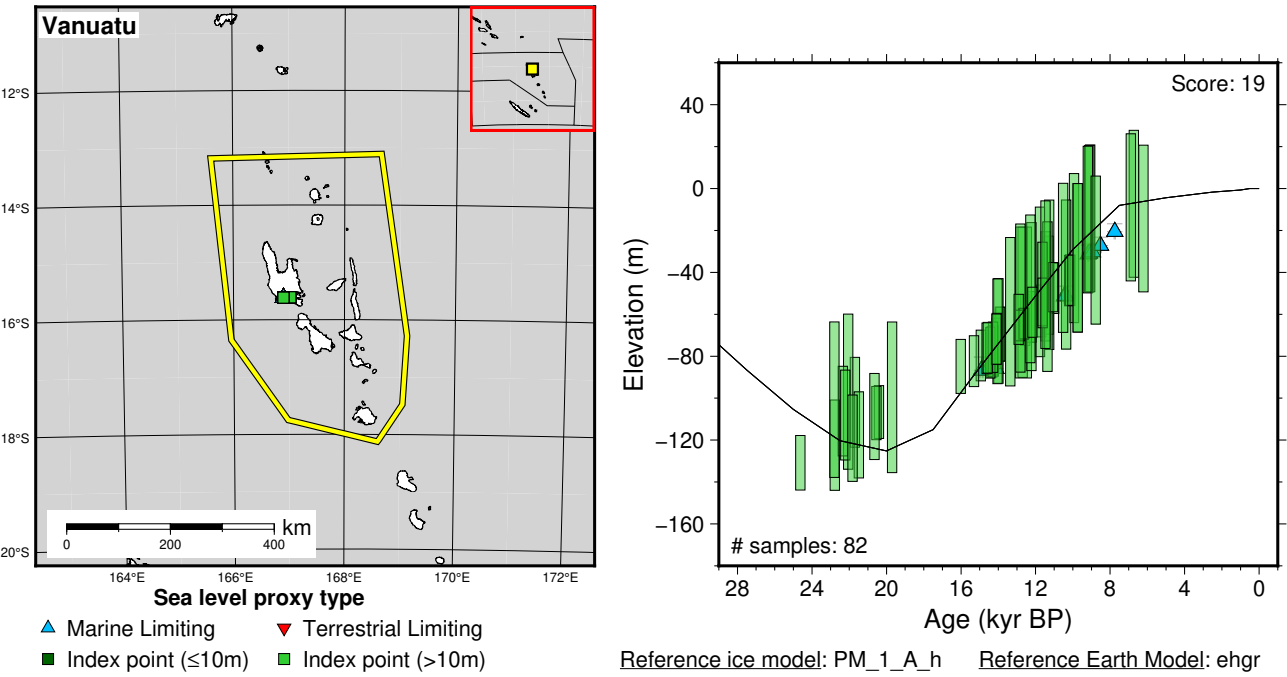


Figure 264: Paleo-sea level and comparison of six models for subregion: Melansia, location: Vanuatu. References: Cabioch et al. (2003); Cutler et al. (2004); Hibbert et al. (2016).

6.11 Proxy Based Sea Level

6.11.1 Red Sea

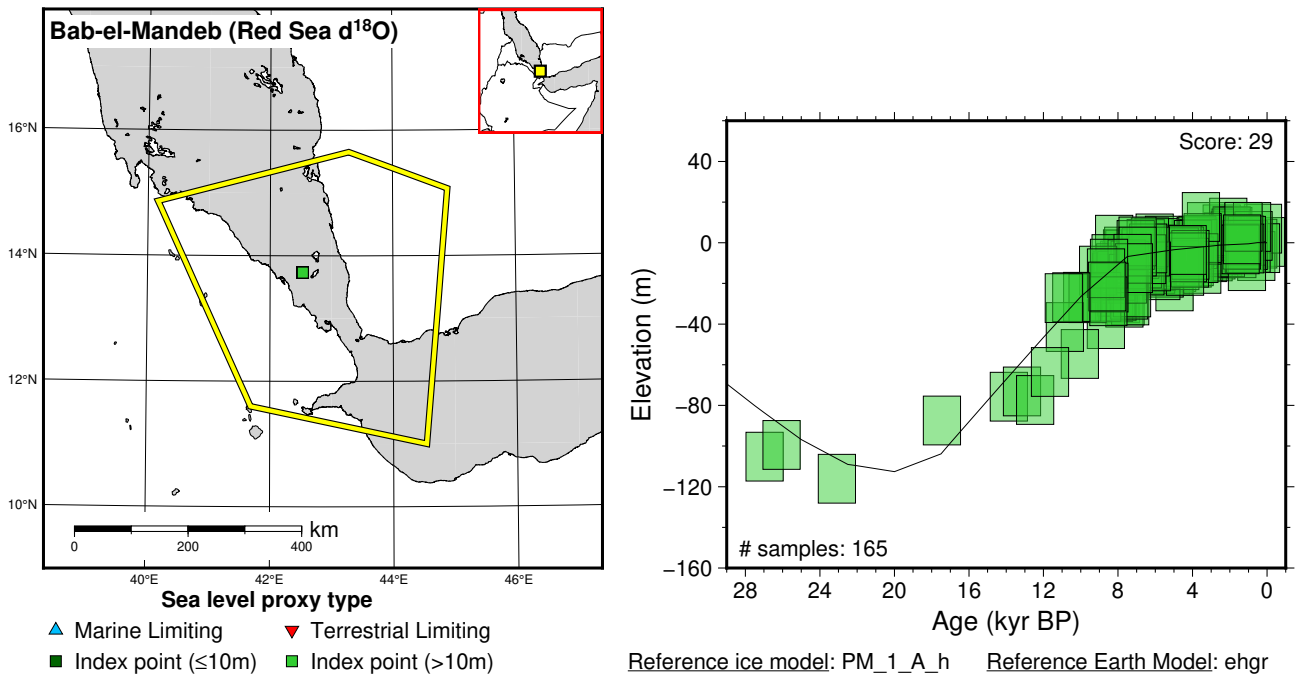


Figure 265: Paleo-sea level and comparison of six models for subregion: Red Sea, location: Bab-el-Mandeb (Red Sea $\delta^{18}\text{O}$ Proxy). References: Grant et al. (2012, 2014).

6.12 South Asia

6.12.1 Bay of Bengal

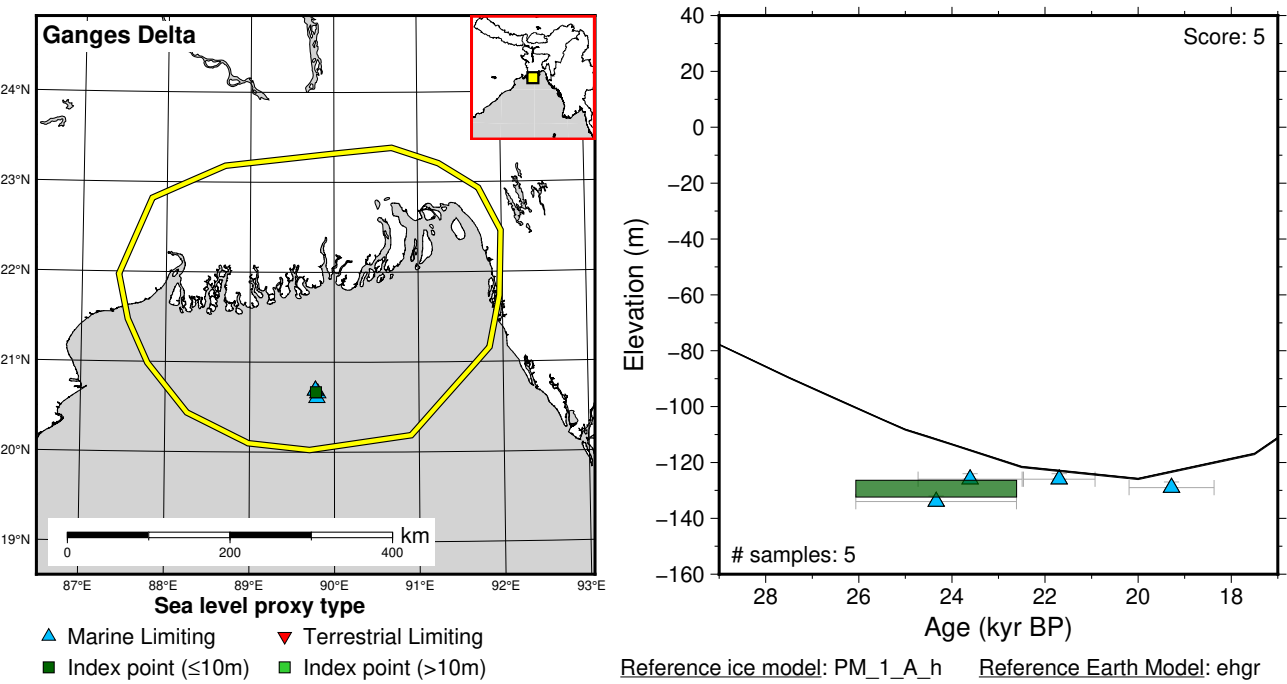


Figure 266: Paleo-sea level and comparison of six models for subregion: Bay of Bengal, location: Ganges Delta. References: Wiedicke et al. (1999).

6.13 Southeast Asia

6.13.1 Java Sea

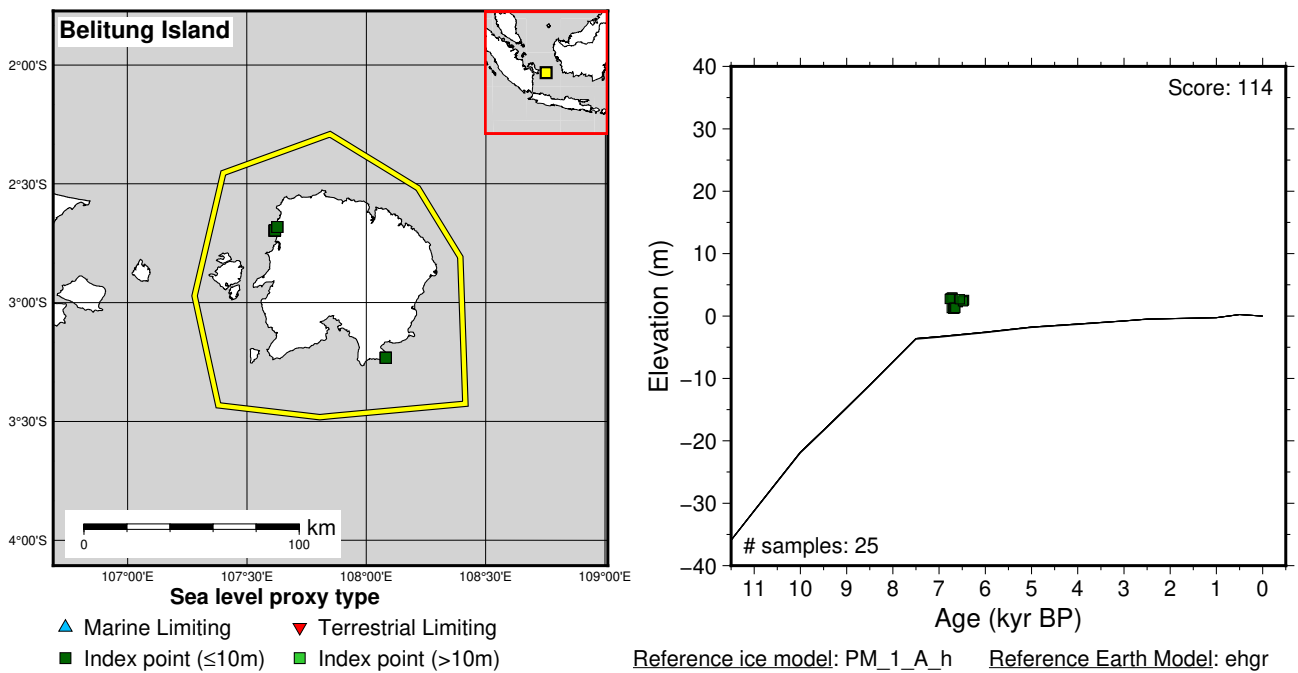


Figure 267: Paleo-sea level and comparison of six models for subregion: Java Sea, location: Belitung Island. References: Mann et al. (2019); Meltzner et al. (2017).

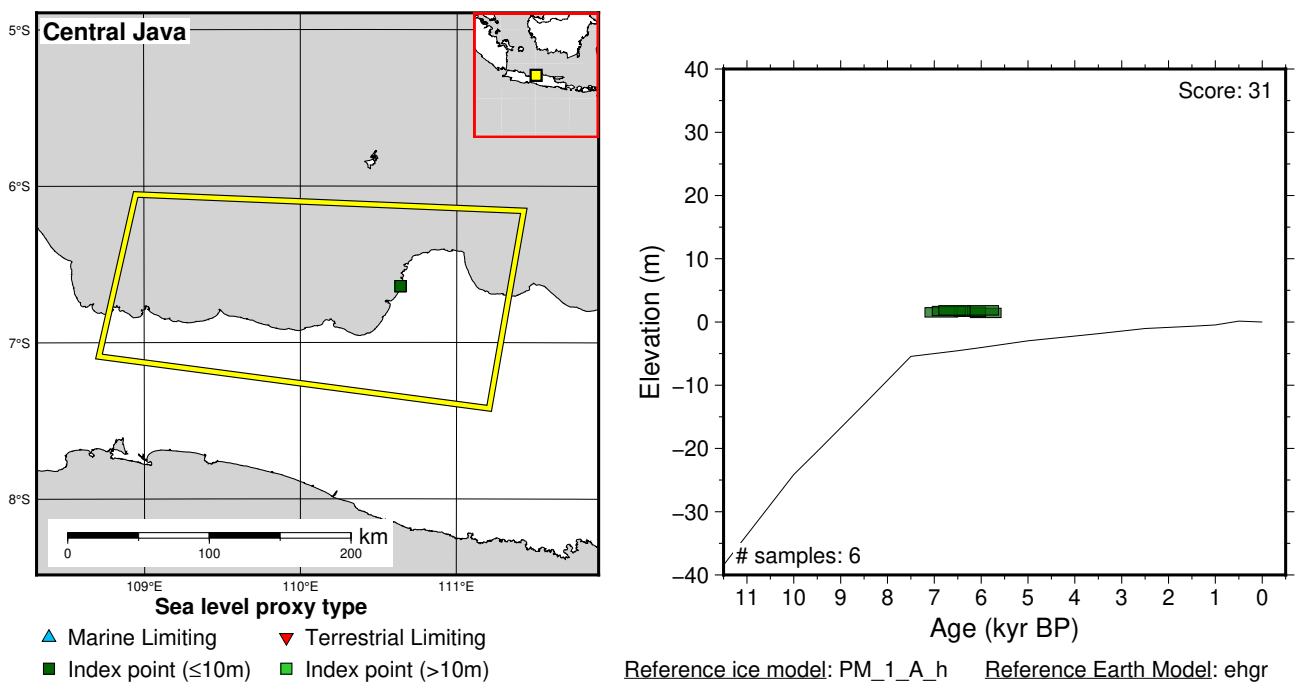


Figure 268: Paleo-sea level and comparison of six models for subregion: Java Sea, location: Central Java. References: Azmy et al. (2010); Mann et al. (2019).

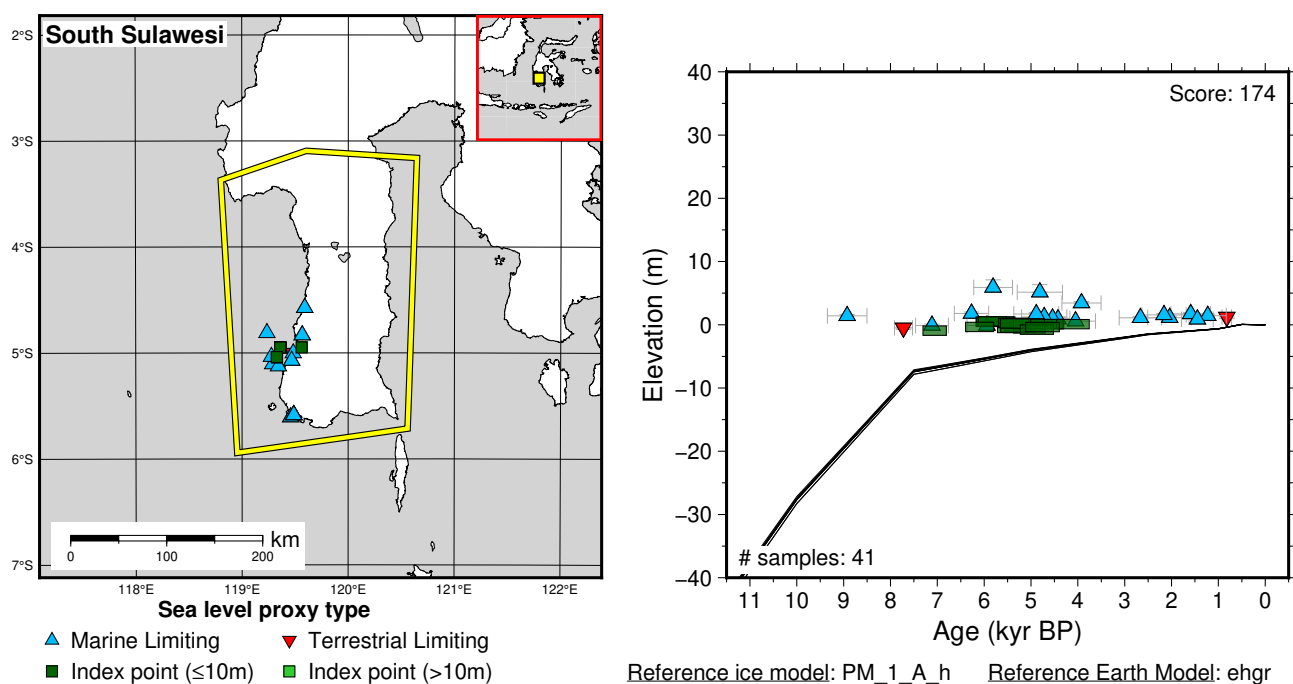


Figure 269: Paleo-sea level and comparison of six models for subregion: Java Sea, location: South Sulawesi. References: de Klerk (1982); Mann et al. (2016, 2019); Tjia et al. (1972).

6.13.2 Papua New Guinea

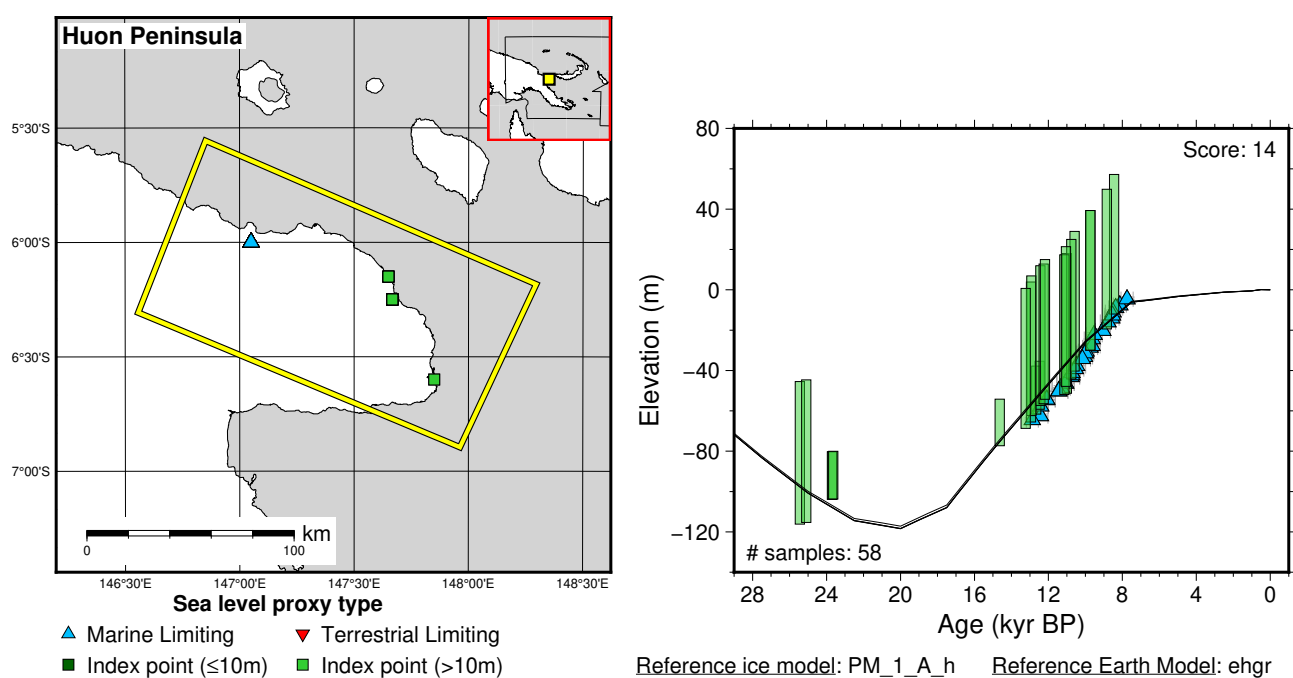


Figure 270: Paleo-sea level and comparison of six models for subregion: Papua New Guinea, location: Huon Peninsula. References: Chappell and Polach (1991); Cutler et al. (2003); Edwards et al. (1993); Hibbert et al. (2016); Mann et al. (2019).

6.13.3 South China Sea

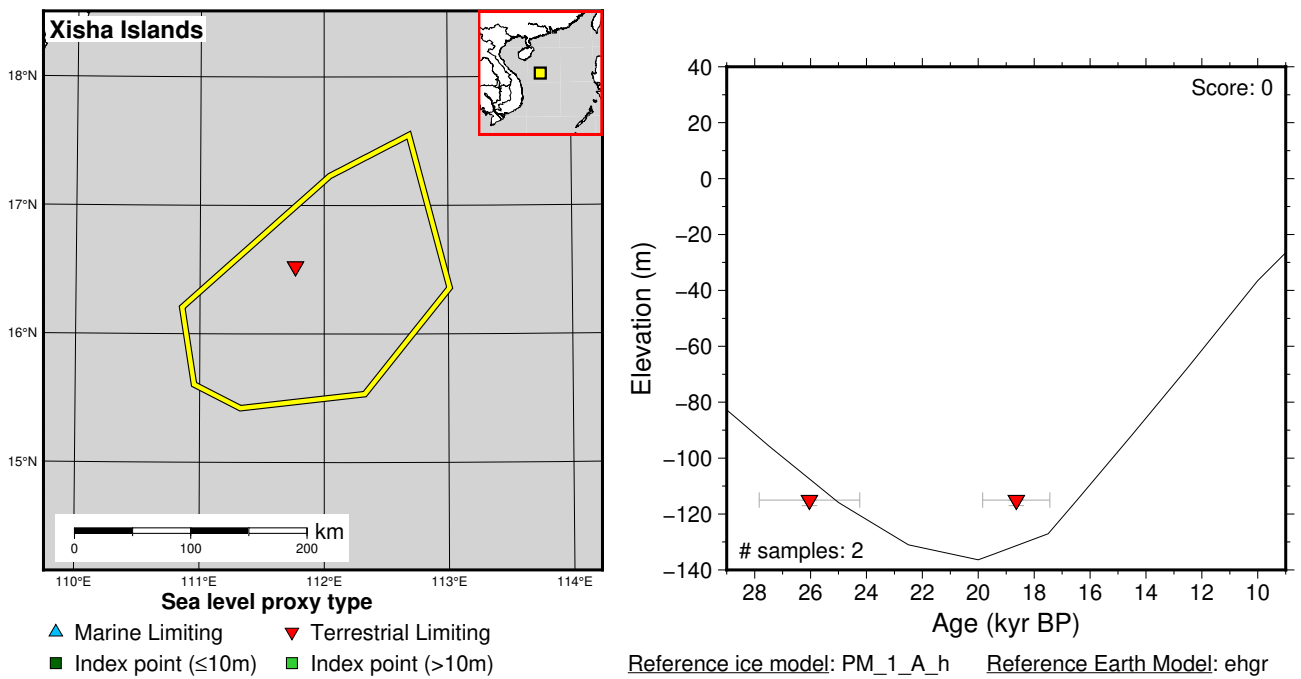


Figure 271: Paleo-sea level and comparison of six models for subregion: South China Sea, location: Xisha Islands. References: Yu et al. (2022).

6.13.4 Sundaland

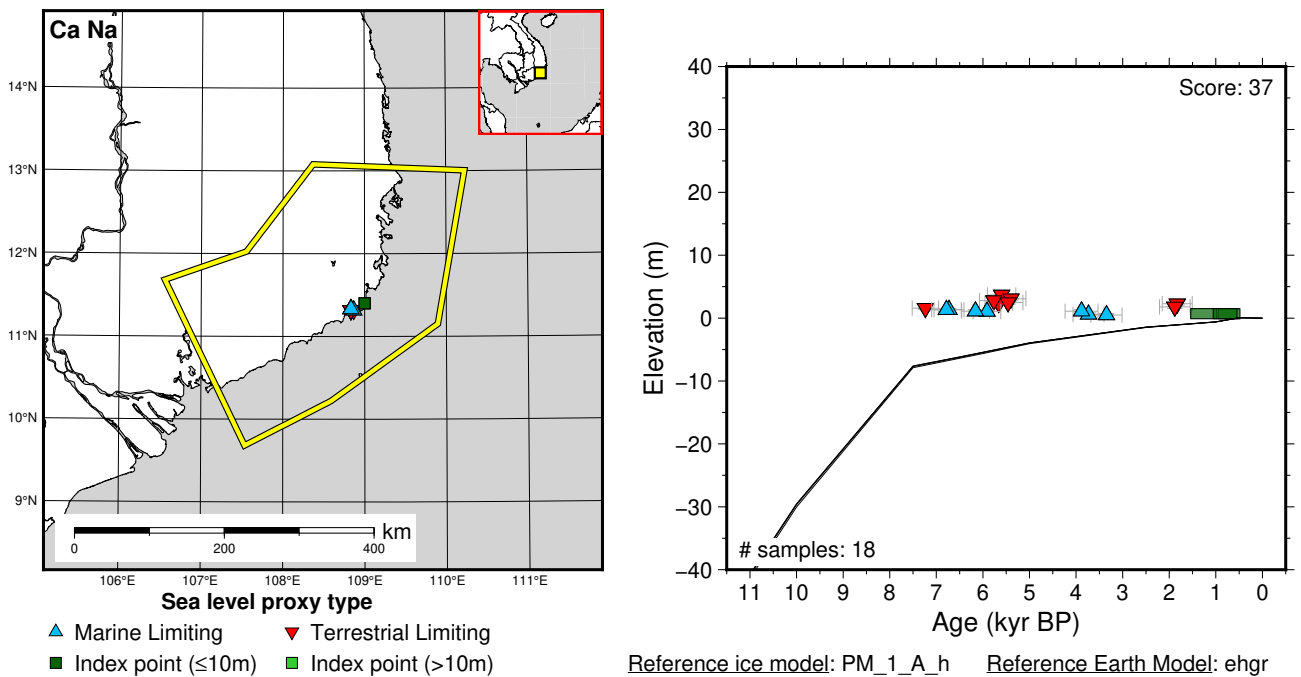
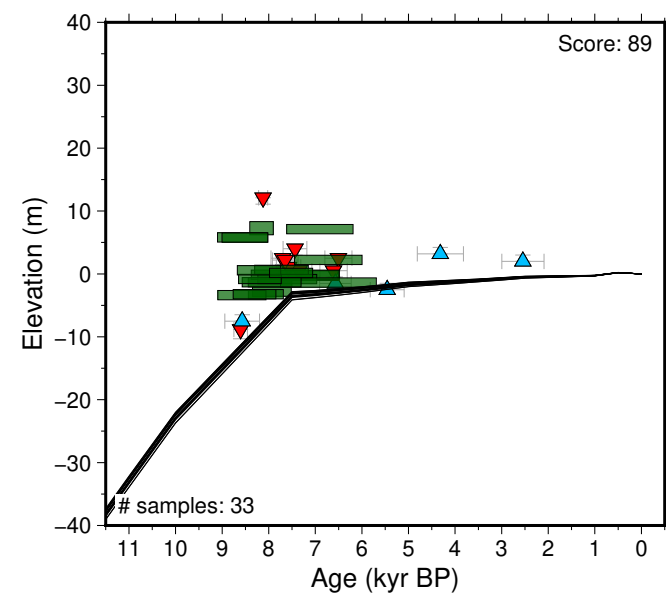
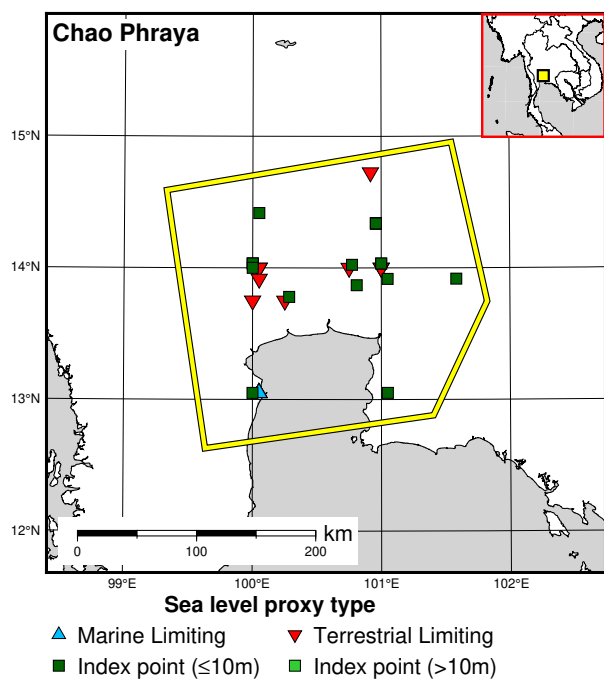
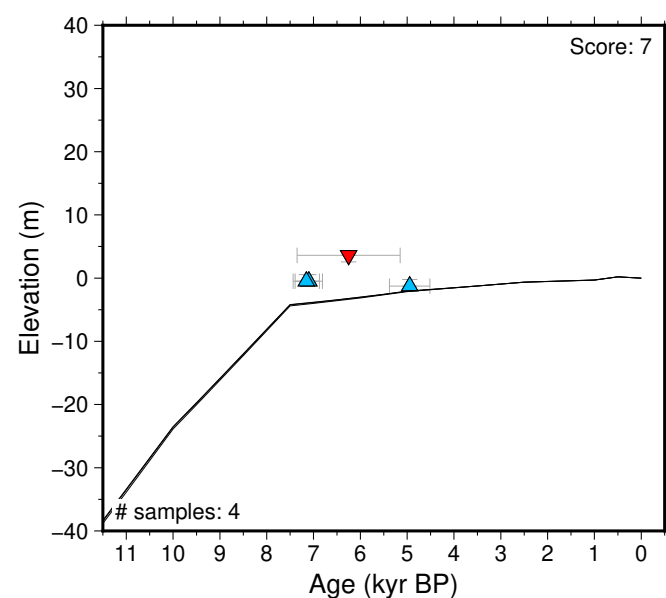
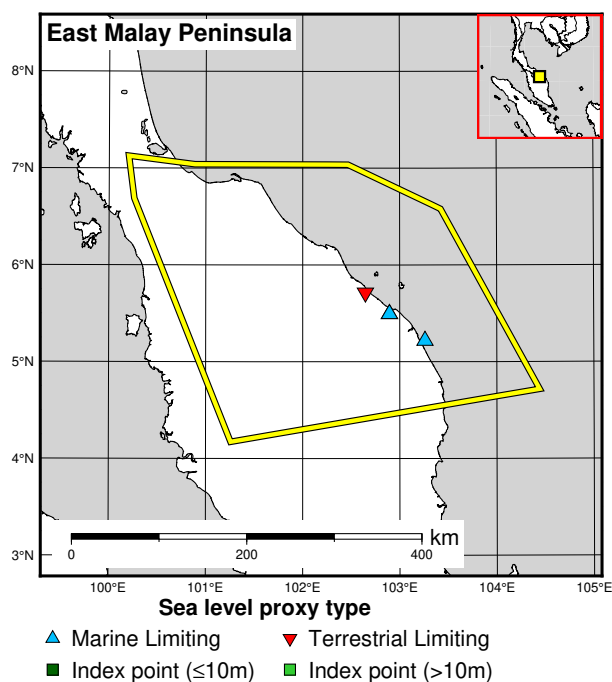


Figure 272: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Ca Na. References: Mann et al. (2019); Stattegger et al. (2013).



Reference ice model: PM_1_A_h Reference Earth Model: ehgr

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).



Reference ice model: PM_1_A_h Reference Earth Model: ehgr

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).

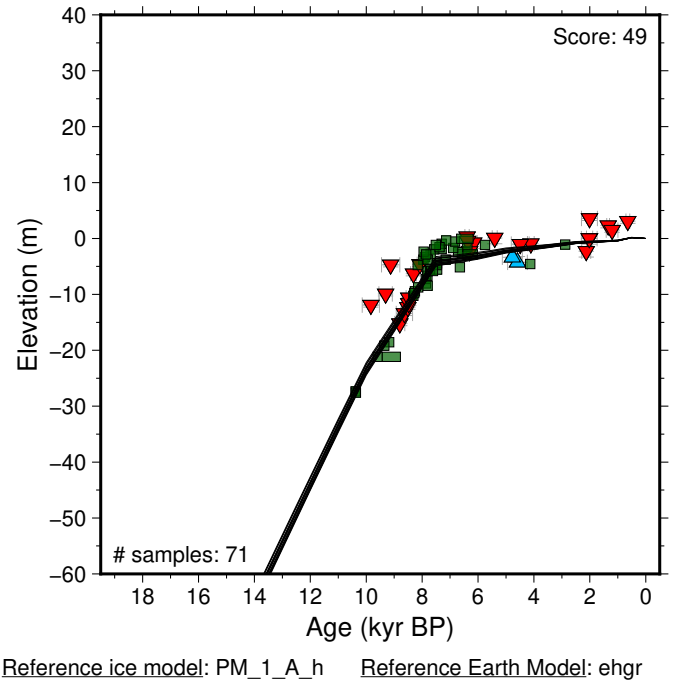
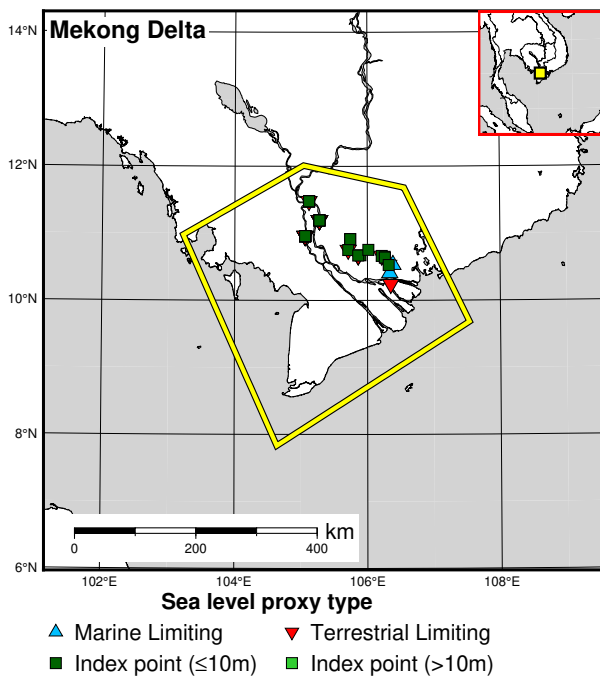


Figure 275: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Mekong Delta. References: Hanebuth et al. (2012); Mann et al. (2019); Stattegger et al. (2013); Tamura et al. (2007, 2009).

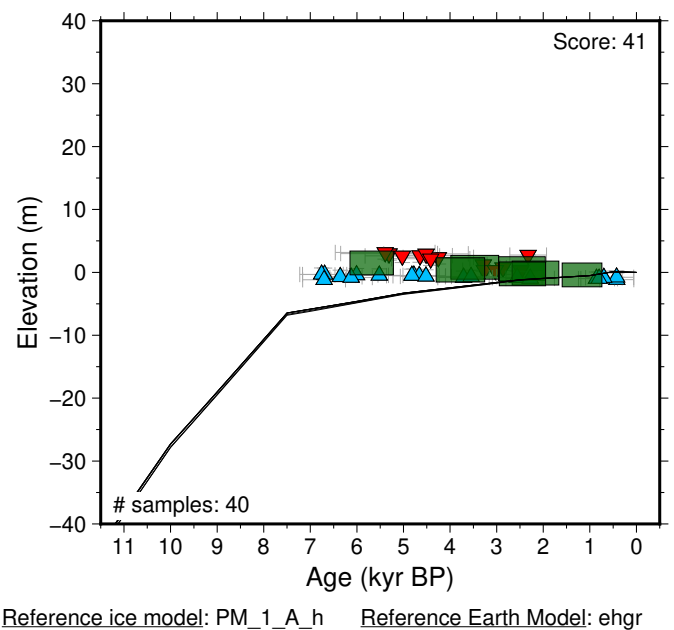
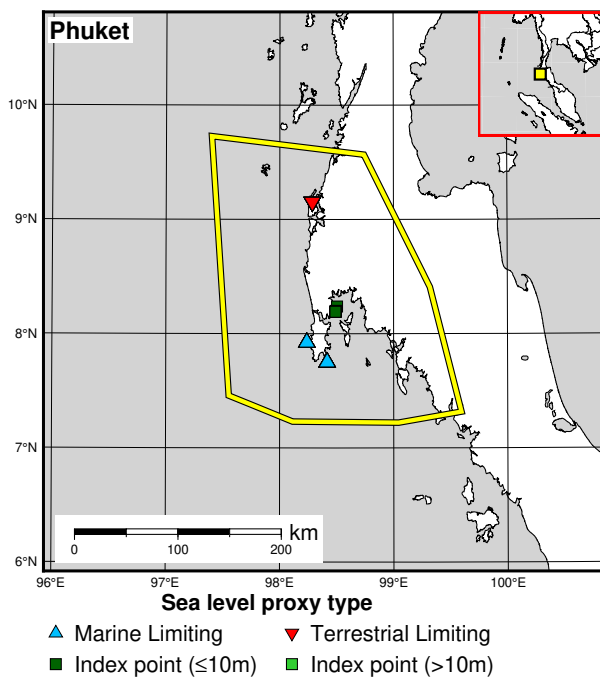


Figure 276: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Phuket. References: Mann et al. (2019); Scheffers et al. (2012); Scoffin and Le Tissier (1998).

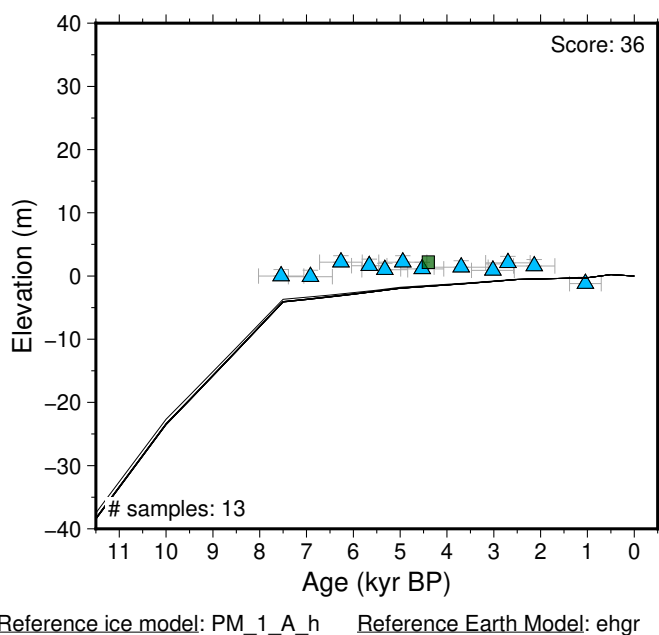
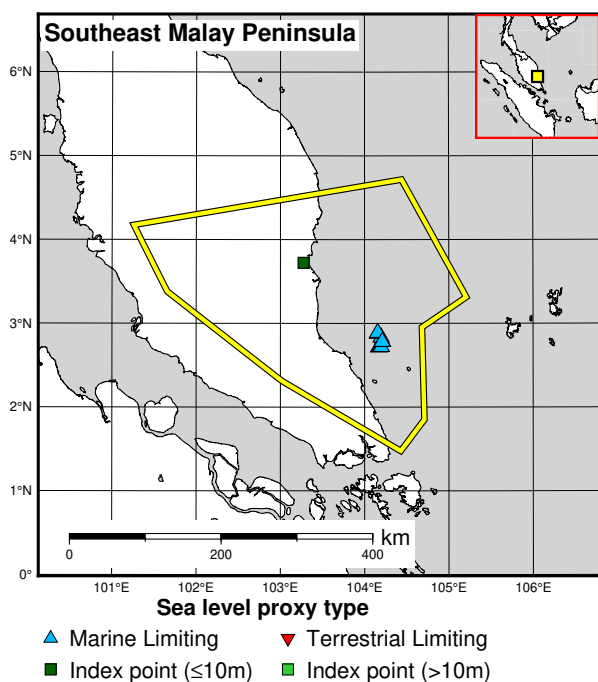


Figure 277: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Southeast Malay Peninsula. References: Hassan (2001); Horton et al. (2005); Mann et al. (2019); Tjia and Fujii (1992); Tjia et al. (1983).

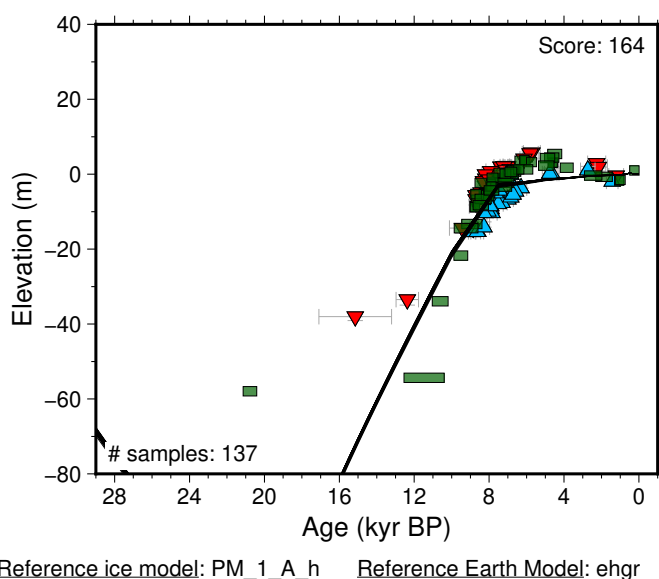
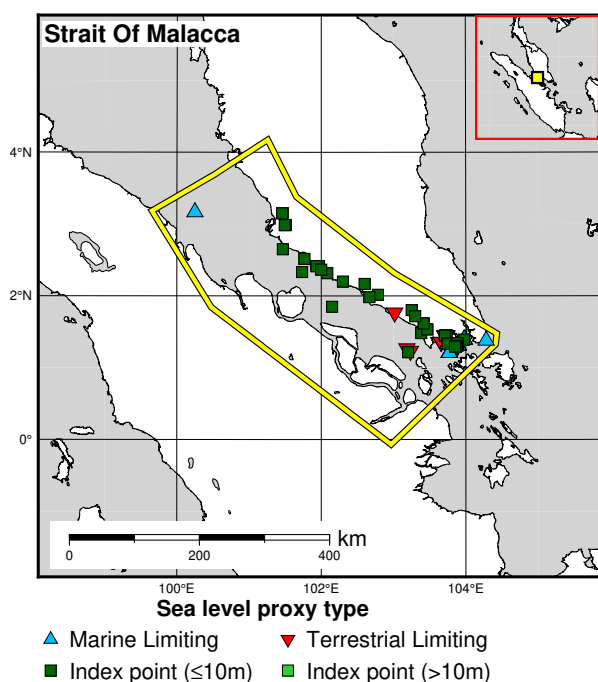


Figure 278: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Strait Of Malacca. References: Bird et al. (2007, 2010); Geyh et al. (1979); Hassan (2001); Hesp et al. (1998); Horton et al. (2005); Mann et al. (2019); Tjia and Fujii (1992).

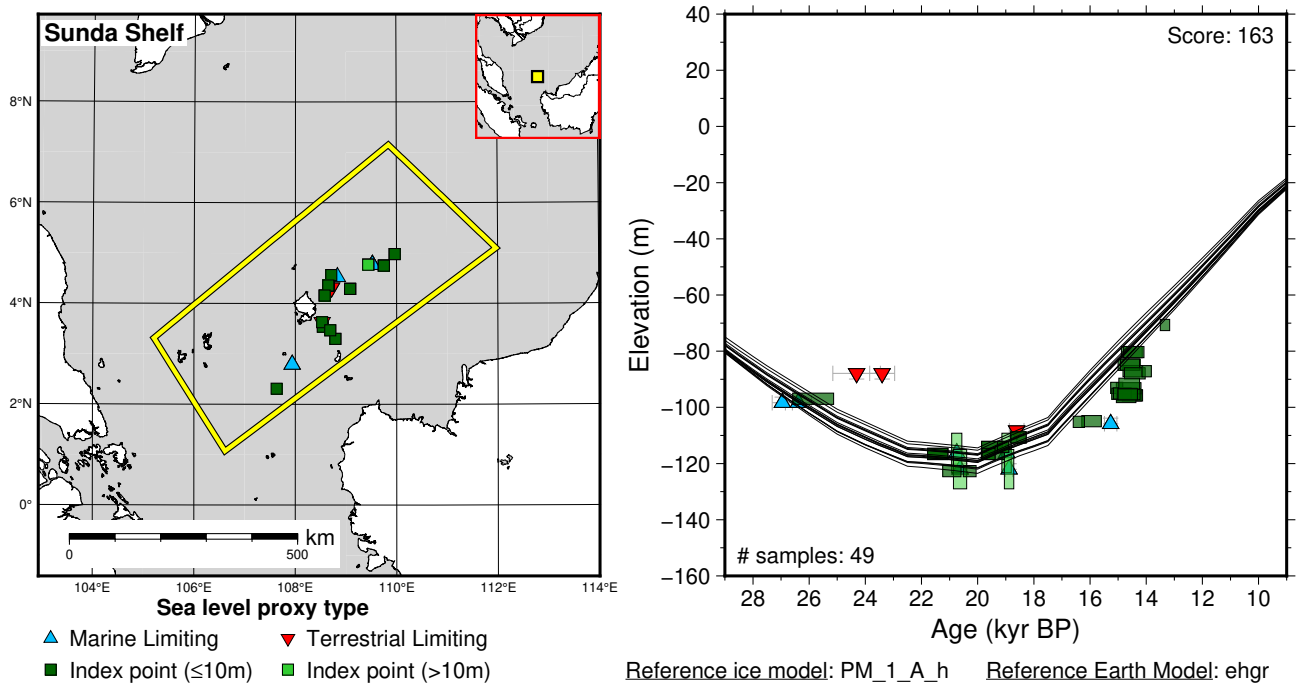


Figure 279: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Sunda Shelf. References: Hanebuth et al. (2000, 2003, 2009).

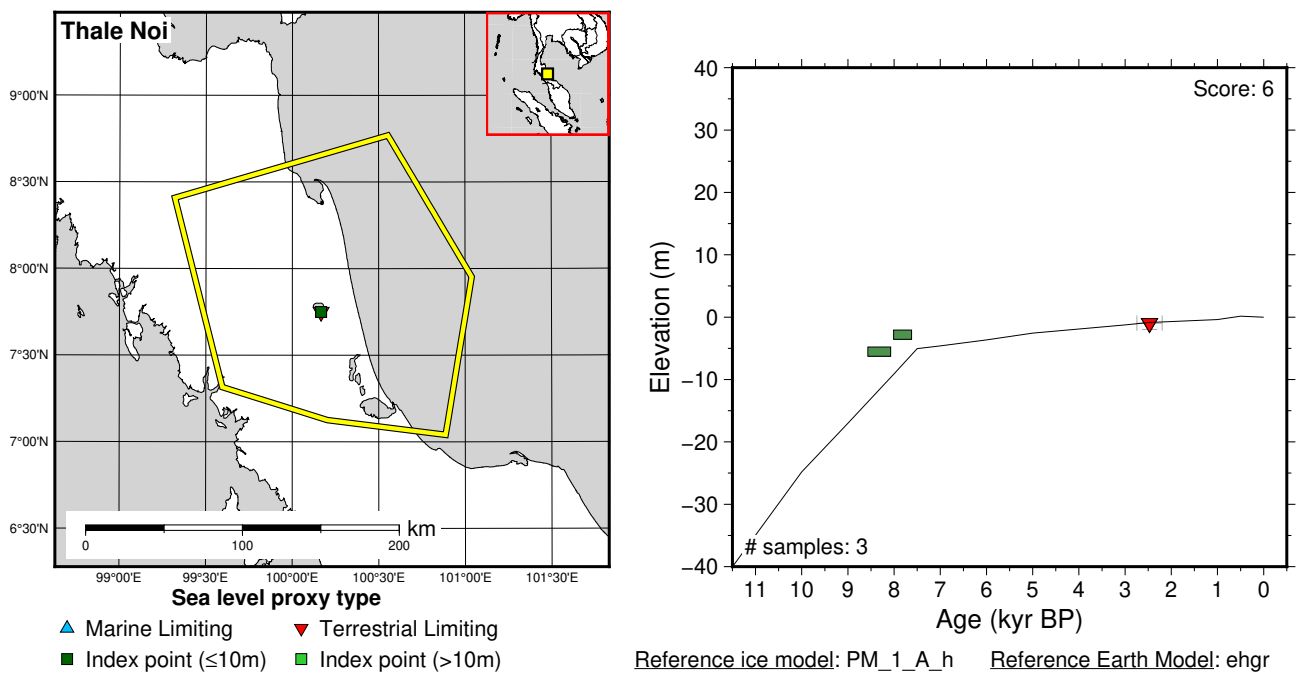
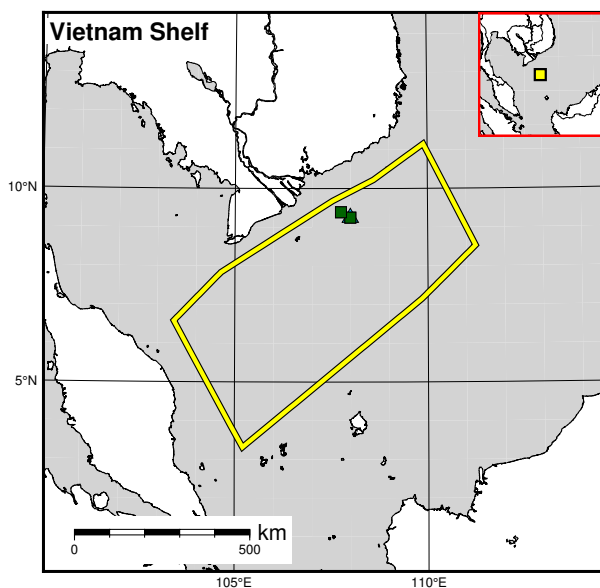
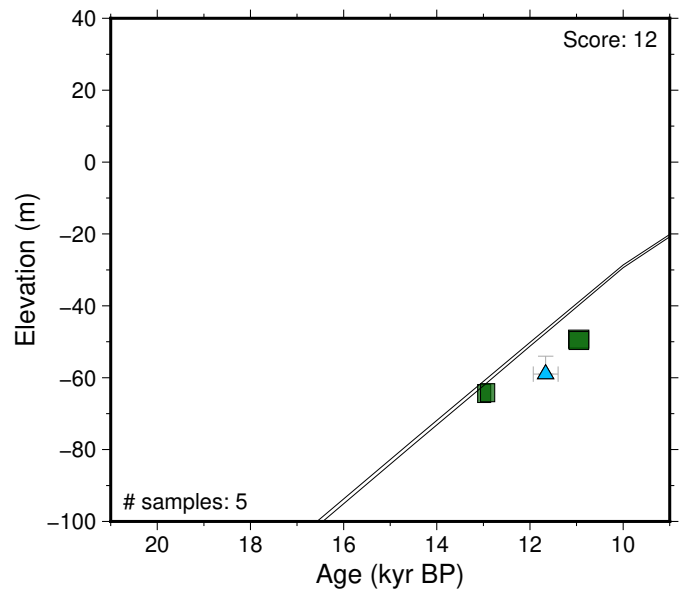


Figure 280: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Thale Noi. References: Horton et al. (2005); Mann et al. (2019).



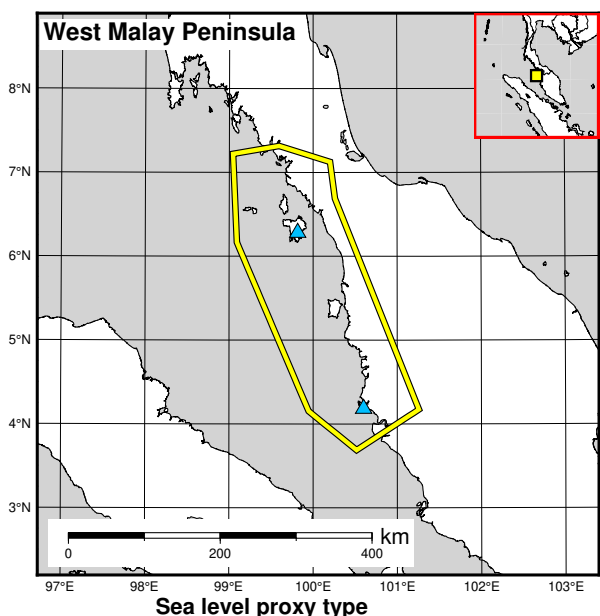
Sea level proxy type

- ▲ Marine Limiting
- ▼ Terrestrial Limiting
- Index point ($\leq 10\text{m}$)
- Index point ($>10\text{m}$)



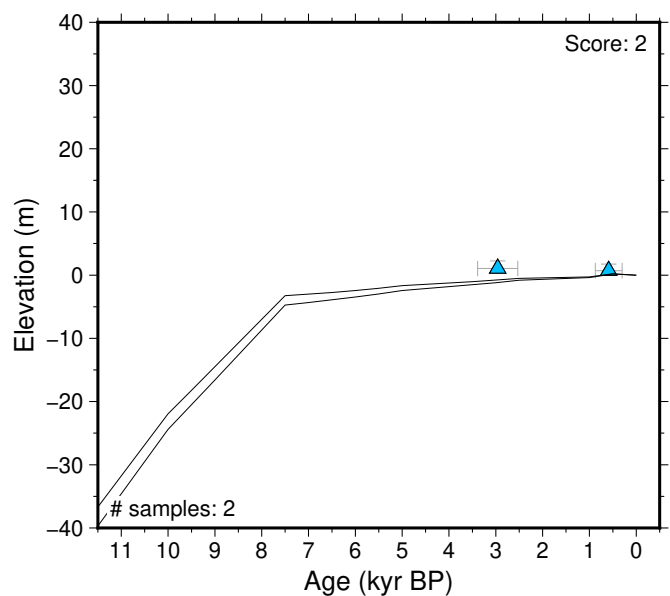
Reference ice model: PM_1_A_h Reference Earth Model: ehgr

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



Sea level proxy type

- ▲ Marine Limiting
- ▼ Terrestrial Limiting
- Index point ($\leq 10\text{m}$)
- Index point ($>10\text{m}$)



Reference ice model: PM_1_A_h Reference Earth Model: ehgr

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

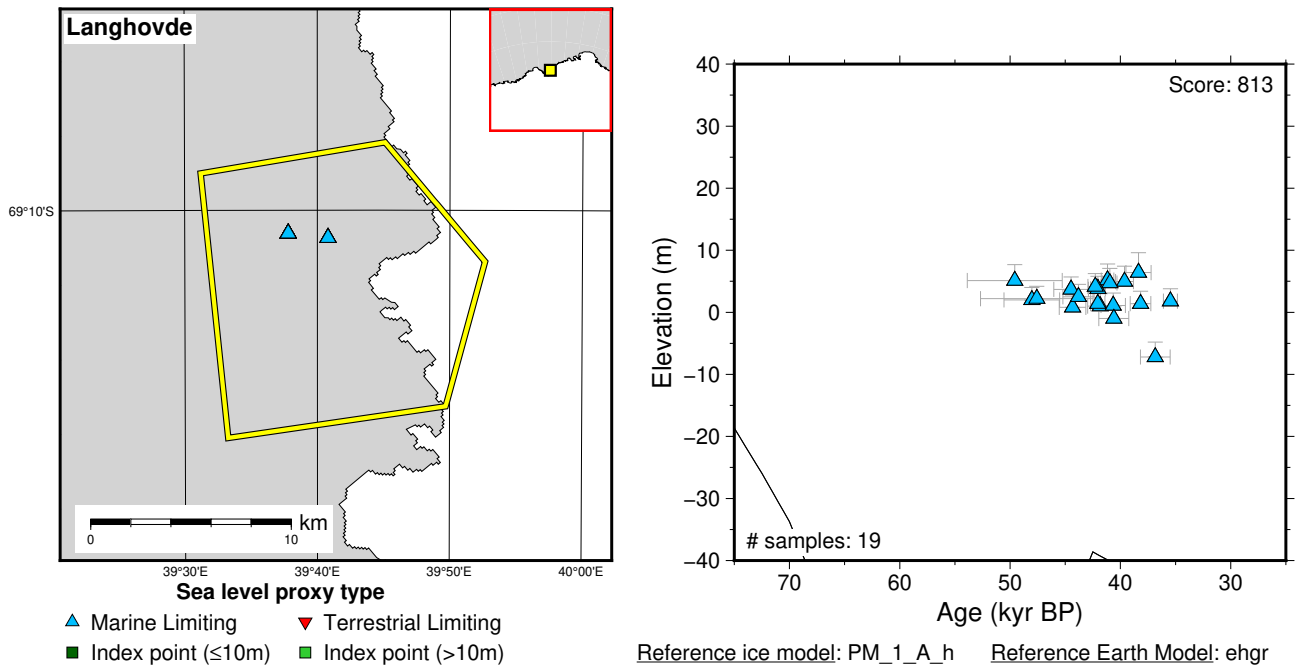


Figure 283: Paleo-sea level and comparison of six models for subregion: East Antarctica, location: Langhovde. References: Igarashi et al. (1995a,b); Ishiwa et al. (2021); Maemoku et al. (1997); Miura et al. (1998).

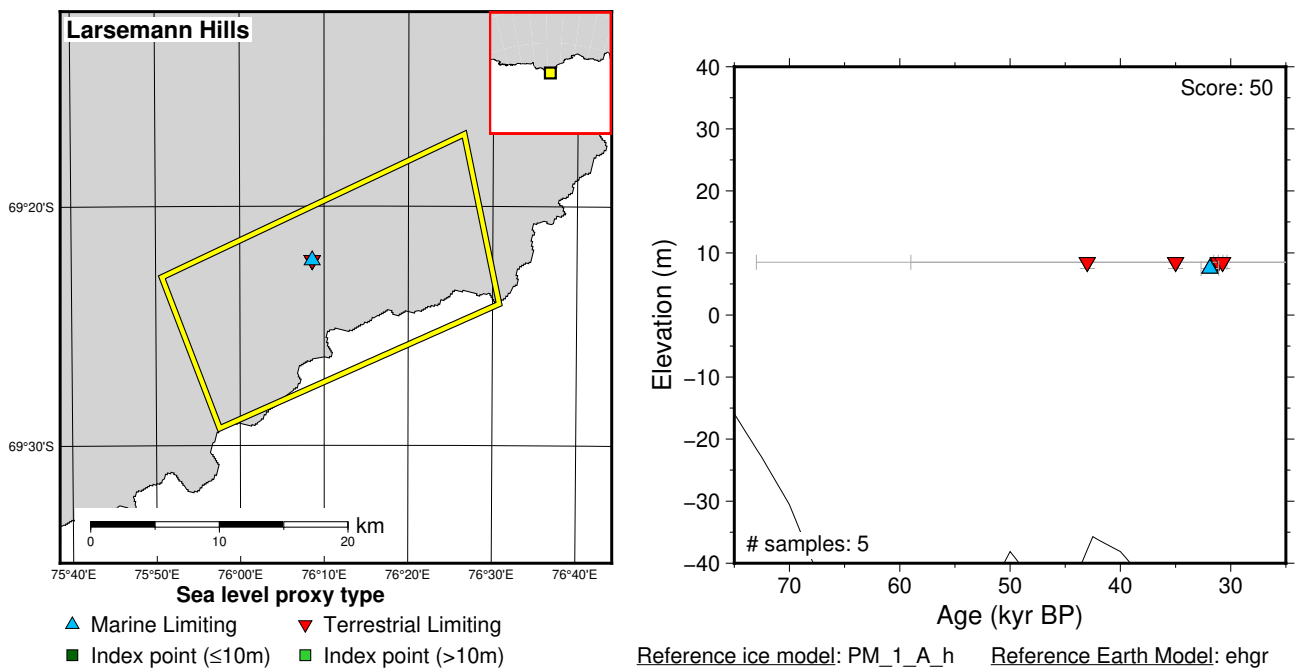


Figure 284: Paleo-sea level and comparison of six models for subregion: East Antarctica, location: Larsemann Hills. References: Hodgson et al. (2009); Ishiwa et al. (2021).

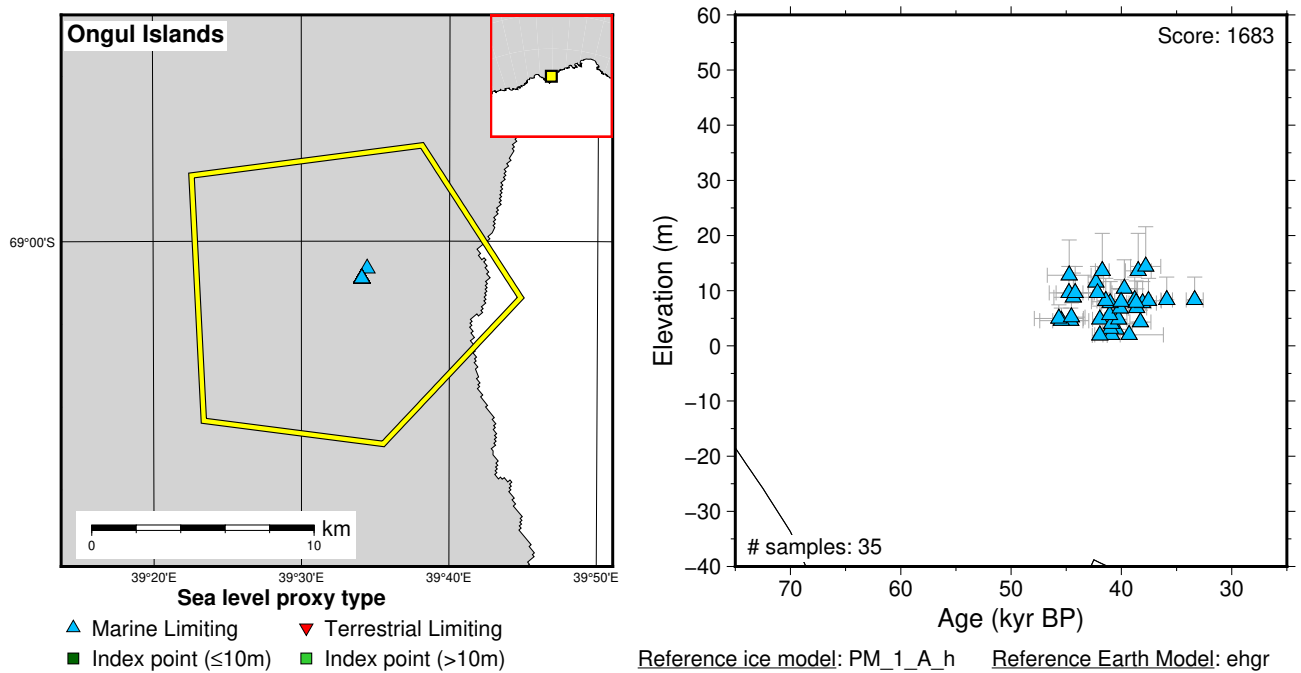


Figure 285: Paleo-sea level and comparison of six models for subregion: East Antarctica, location: Ongul Islands. References: Hirakawa and Sawagaki (1998); Igarashi et al. (1995a,b); Ishiwa et al. (2021); Miura et al. (1998).

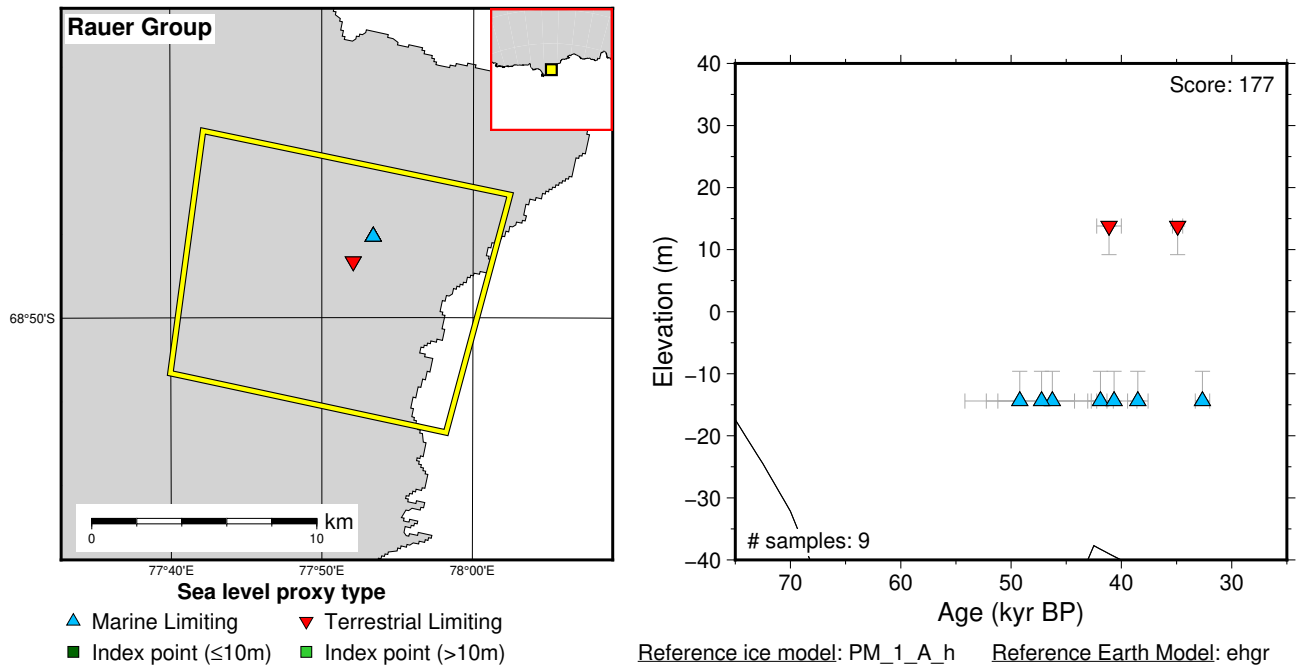


Figure 286: Paleo-sea level and comparison of six models for subregion: East Antarctica, location: Rauer Group. References: Berg et al. (2010a, 2016); Ishiwa et al. (2021).

7.2 Australia

7.2.1 Northern Australia

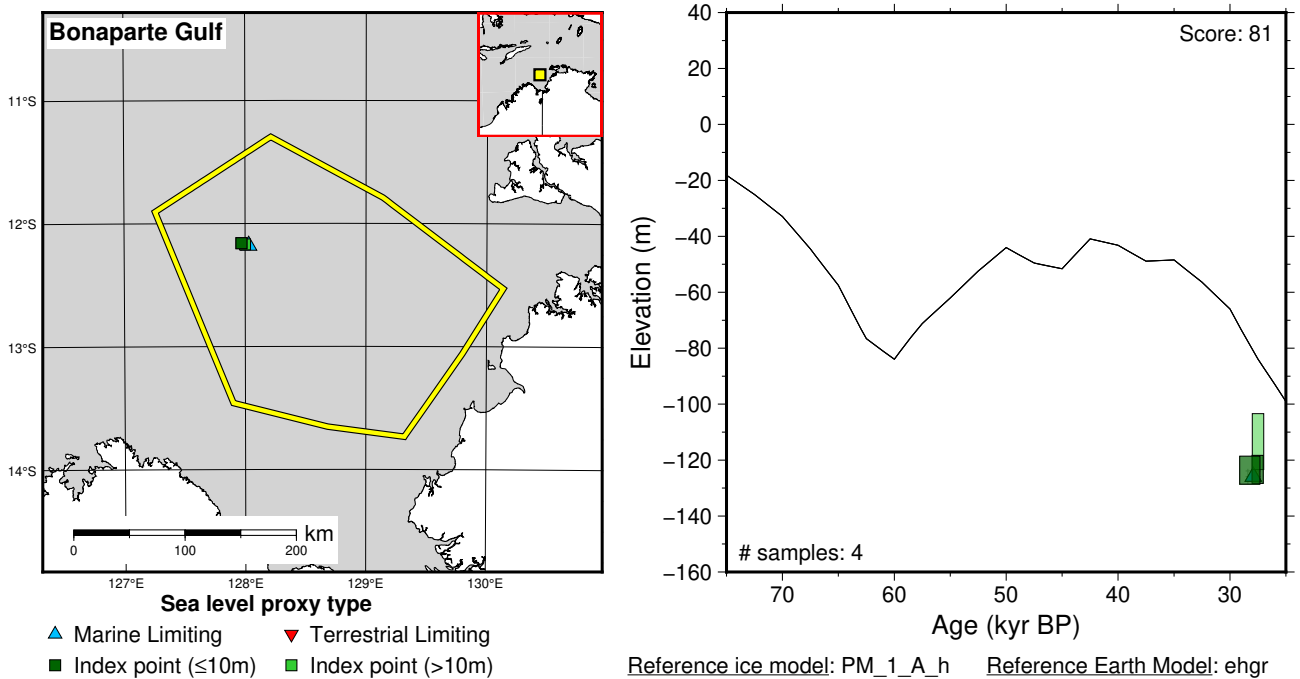


Figure 287: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: Bonaparte Gulf. References: Ishiwa et al. (2019); Yokoyama et al. (2000).

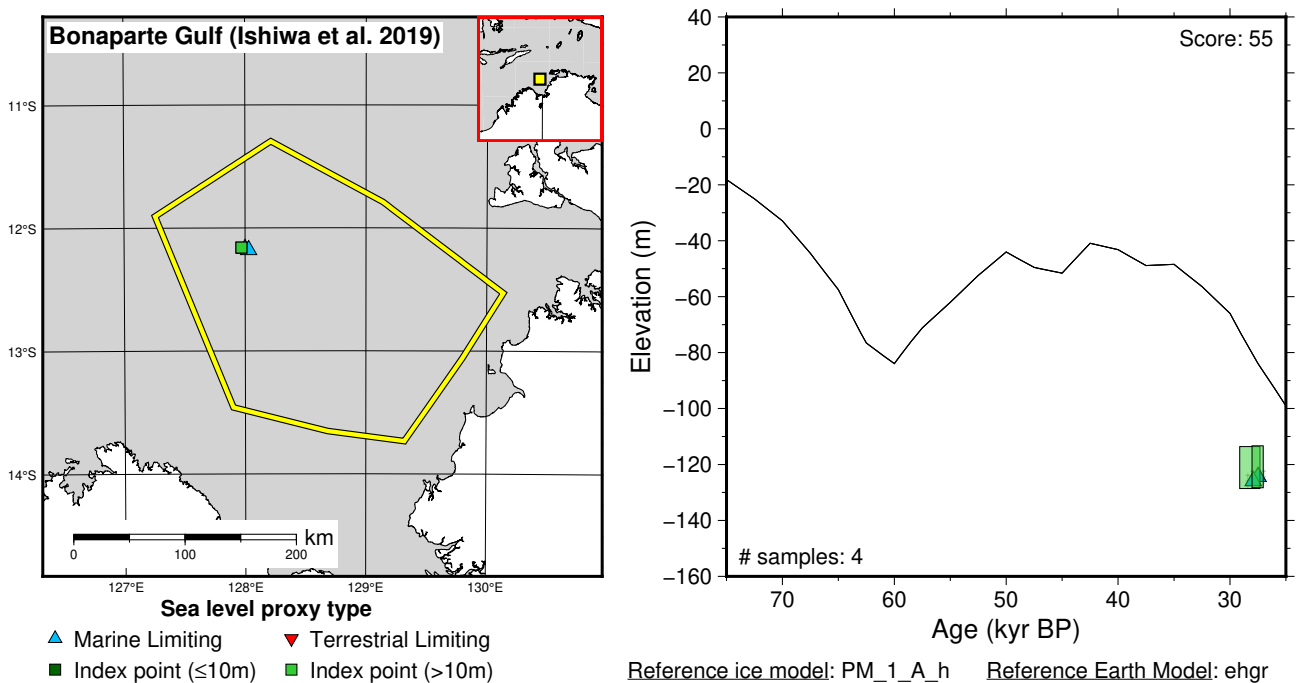


Figure 288: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: Bonaparte Gulf (Ishiwa *et al.* 2019 interpretation). References: Ishiwa et al. (2019); Yokoyama et al. (2000).

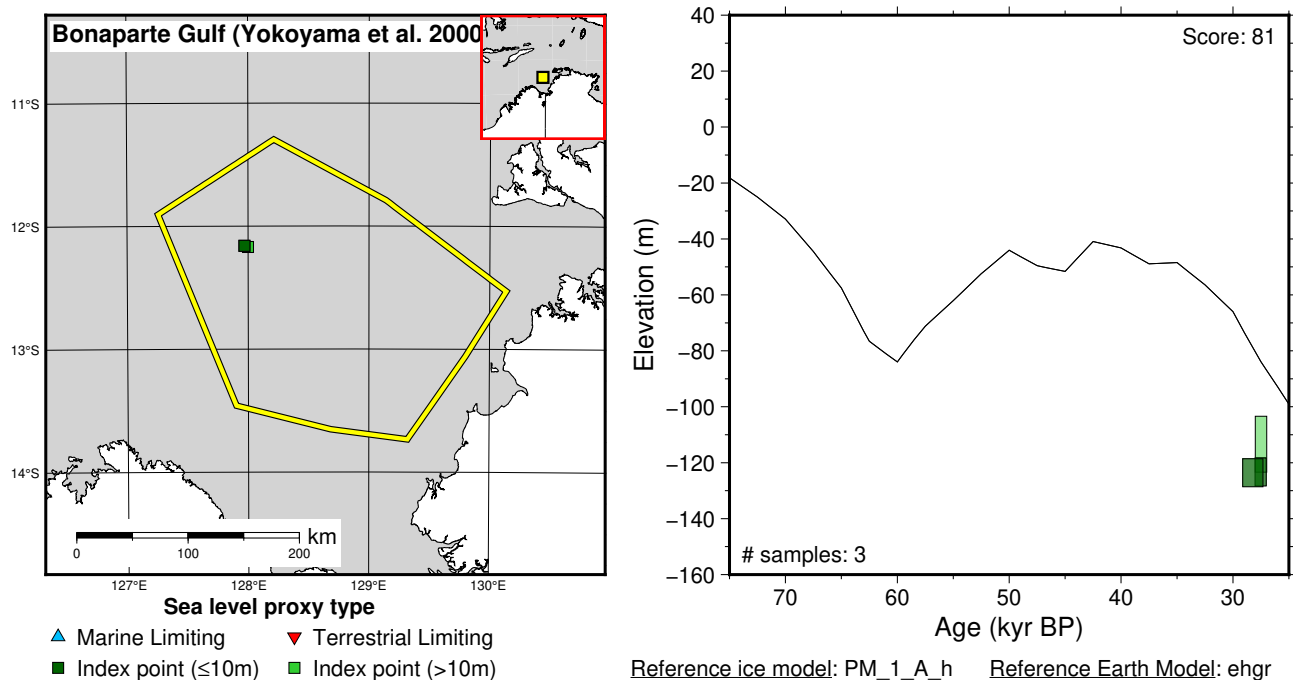


Figure 289: Paleo-sea level and comparison of six models for subregion: Northern Australia, location: Bonaparte Gulf (Yokoyama *et al.* 2000 interpretation). References: Yokoyama *et al.* (2000).

7.2.2 Queensland

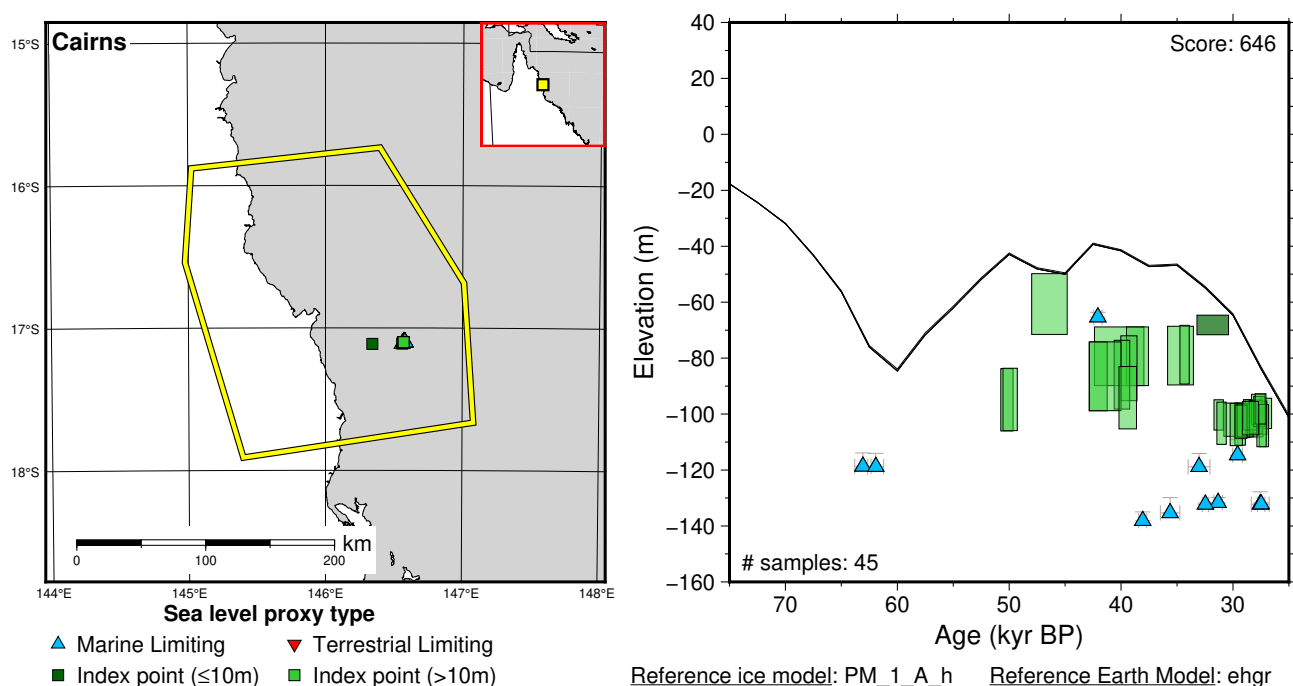


Figure 290: Paleo-sea level and comparison of six models for subregion: Queensland, location: Cairns. References: Larcombe *et al.* (1995); Lewis *et al.* (2013); Yokoyama *et al.* (2018).

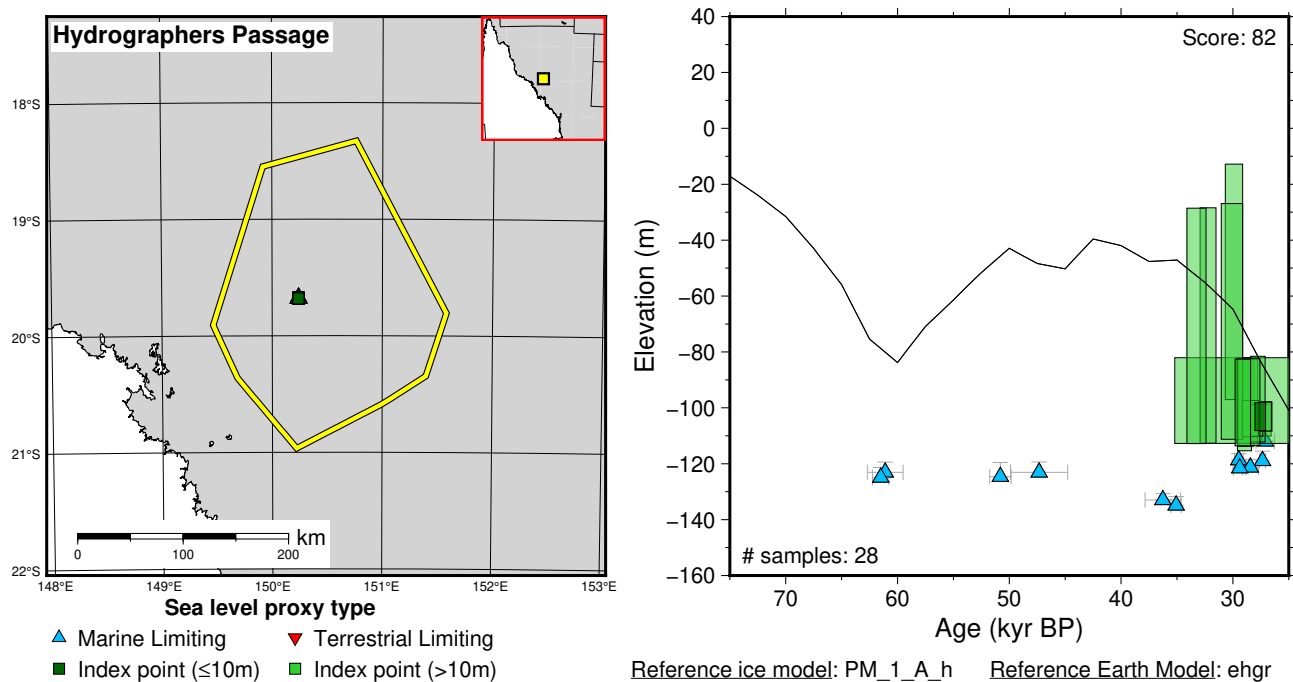


Figure 291: Paleo-sea level and comparison of six models for subregion: Queensland, location: Hydrographers Passage. References: Yokoyama et al. (2018).

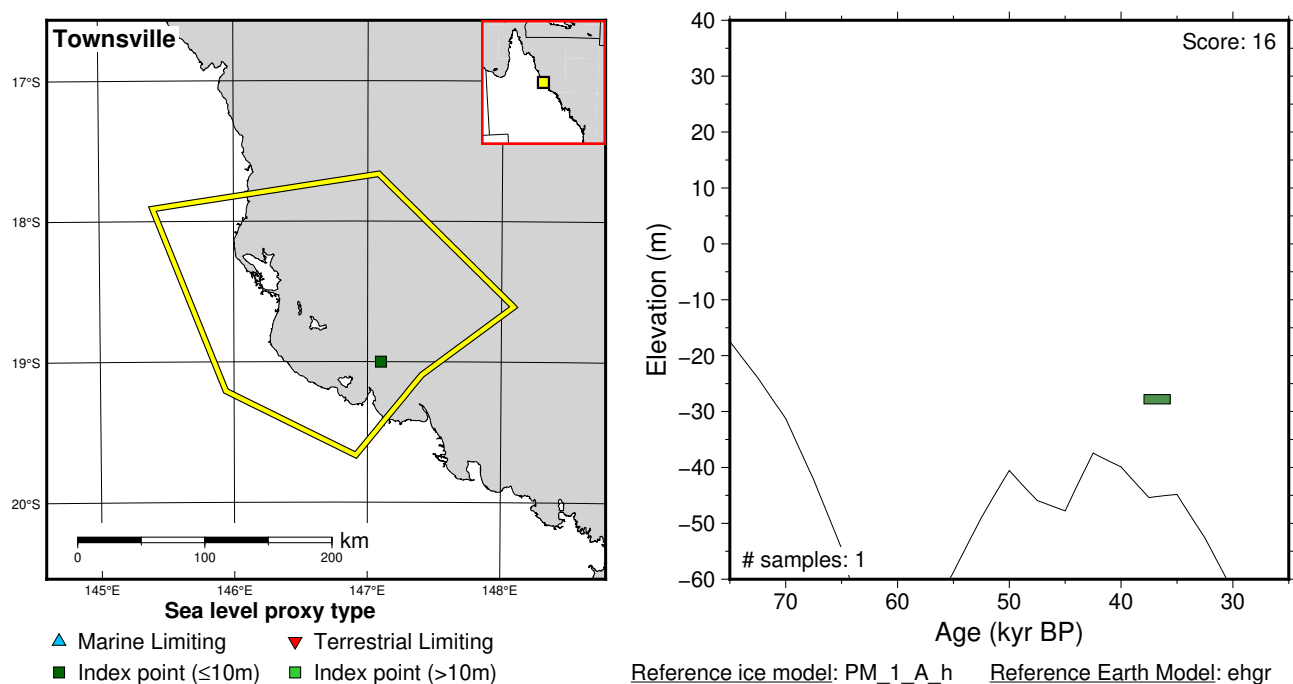


Figure 292: Paleo-sea level and comparison of six models for subregion: Queensland, location: Townsville. References: Larcombe et al. (1995); Lewis et al. (2013); Ohlenbusch (1991).

7.3 Caribbean

7.3.1 Lesser Antilles

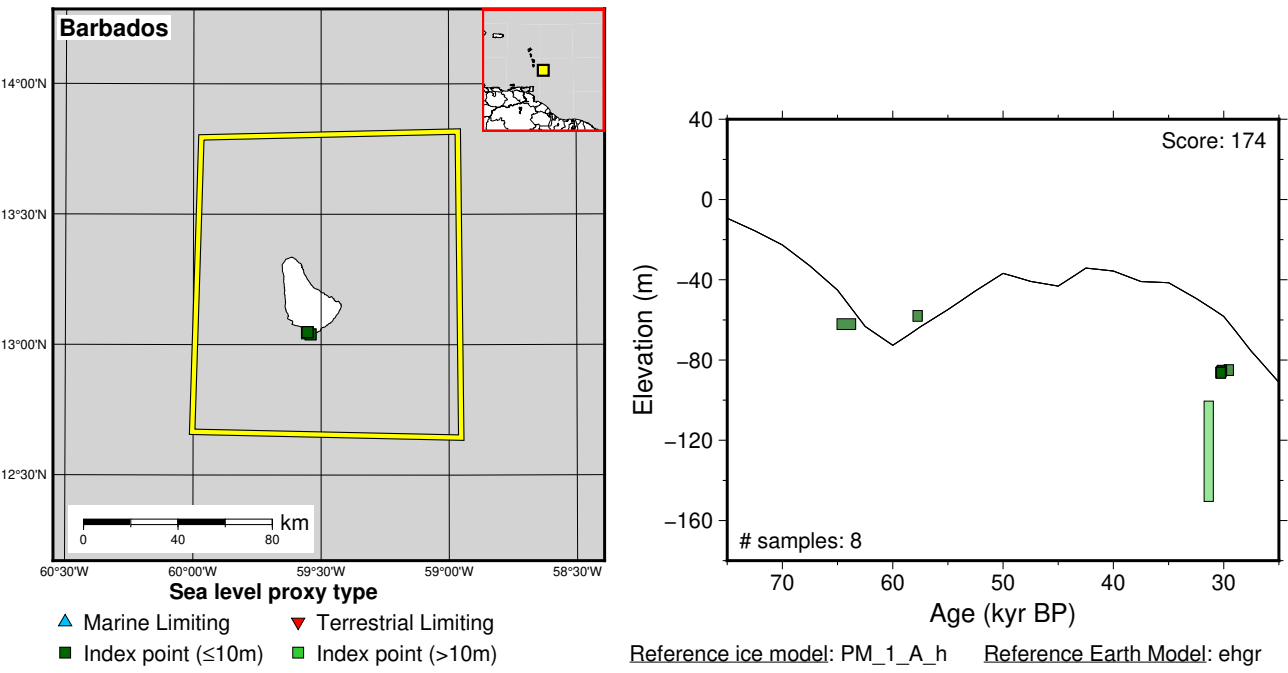


Figure 293: Paleo-sea level and comparison of six models for subregion: Lesser Antilles, location: Barbados. References: Abdul et al. (2016); Fairbanks (1988); Peltier and Fairbanks (2006).

7.4 East Asia

7.4.1 Ryukyu Islands

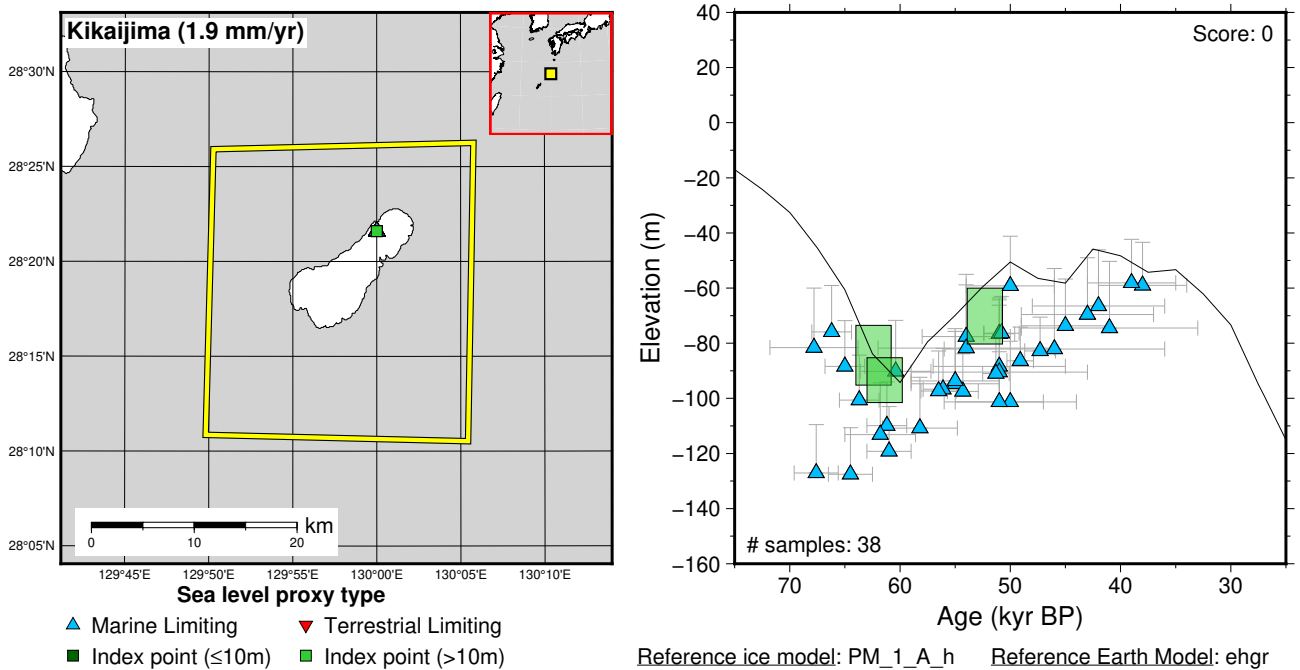


Figure 294: Paleo-sea level and comparison of six models for subregion: Ryukyu Islands, location: Kikaijima (1.9 mm/yr uplift rate). References: Konishi et al. (1974); Omura (1988); Omura and Konishi (1970); Omura et al. (1985, 2000); Sasaki et al. (2004).

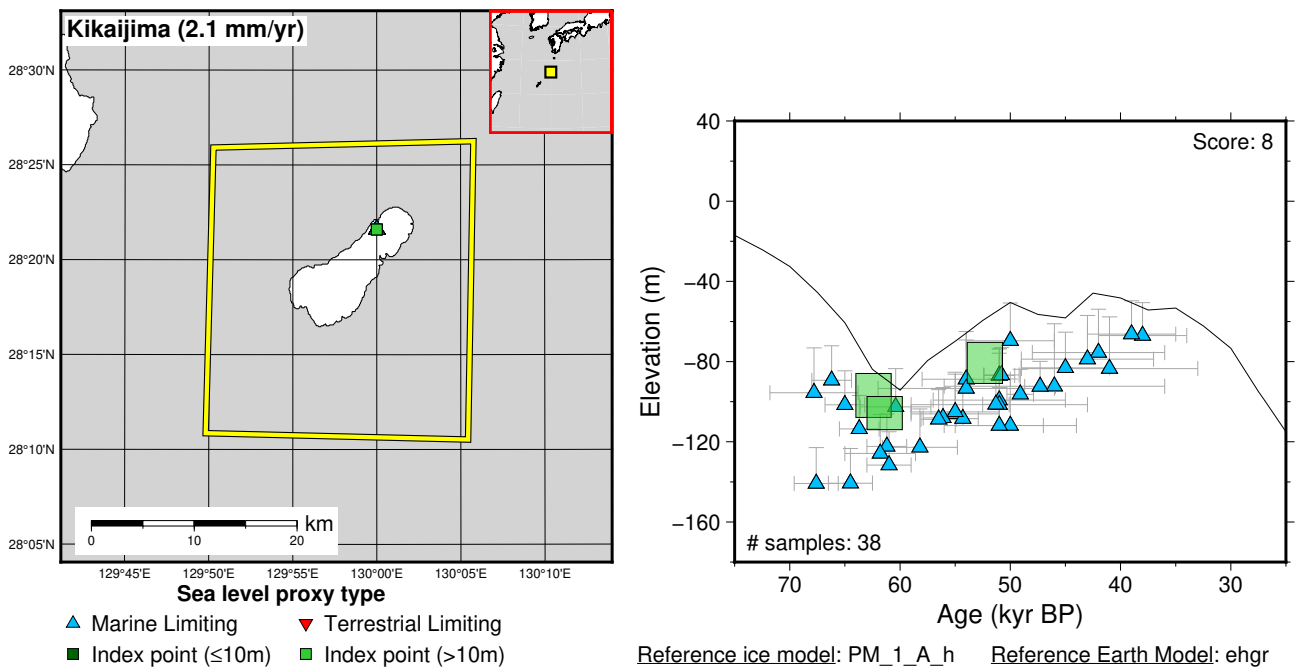


Figure 295: Paleo-sea level and comparison of six models for subregion: Ryukyu Islands, location: Kikaijima (2.1 mm/yr uplift rate). References: Konishi et al. (1974); Omura (1988); Omura and Konishi (1970); Omura et al. (1985, 2000); Sasaki et al. (2004).

7.4.2 Sea of Japan - East Sea

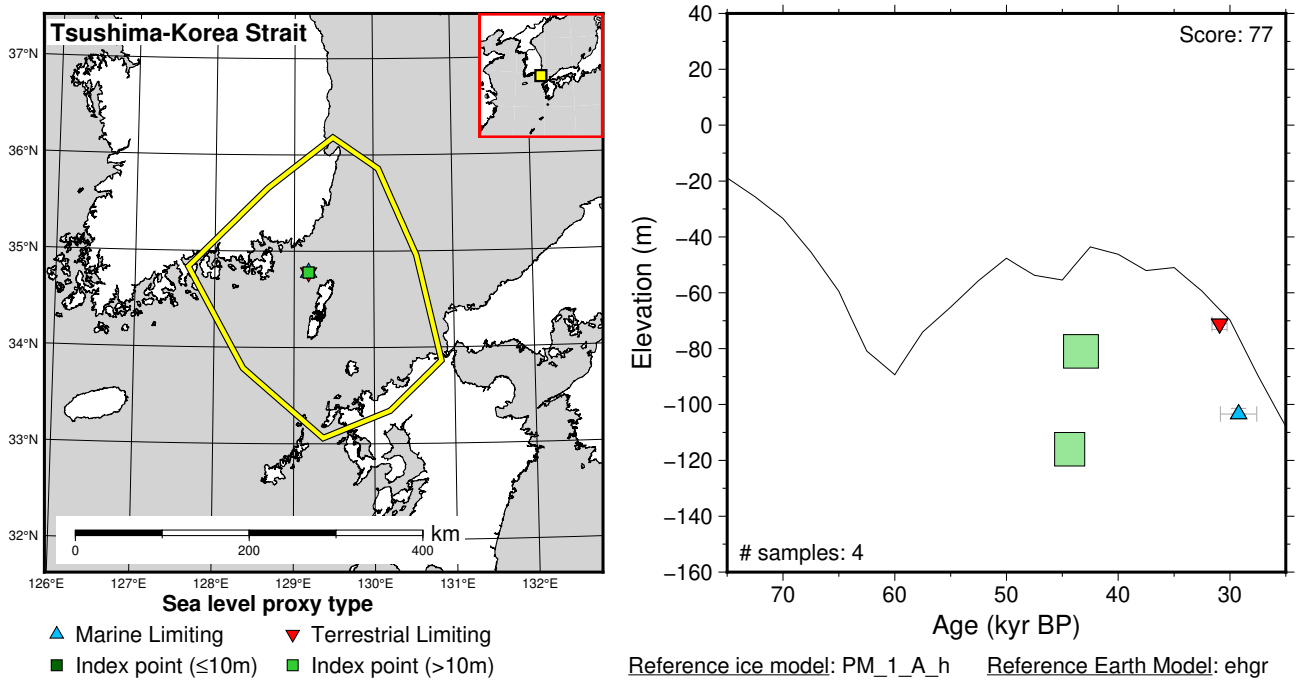


Figure 296: Paleo-sea level and comparison of six models for subregion: Sea of Japan - East Sea, location: Tsushima-Korea Strait. References: Park et al. (2000).

7.4.3 Yellow Sea

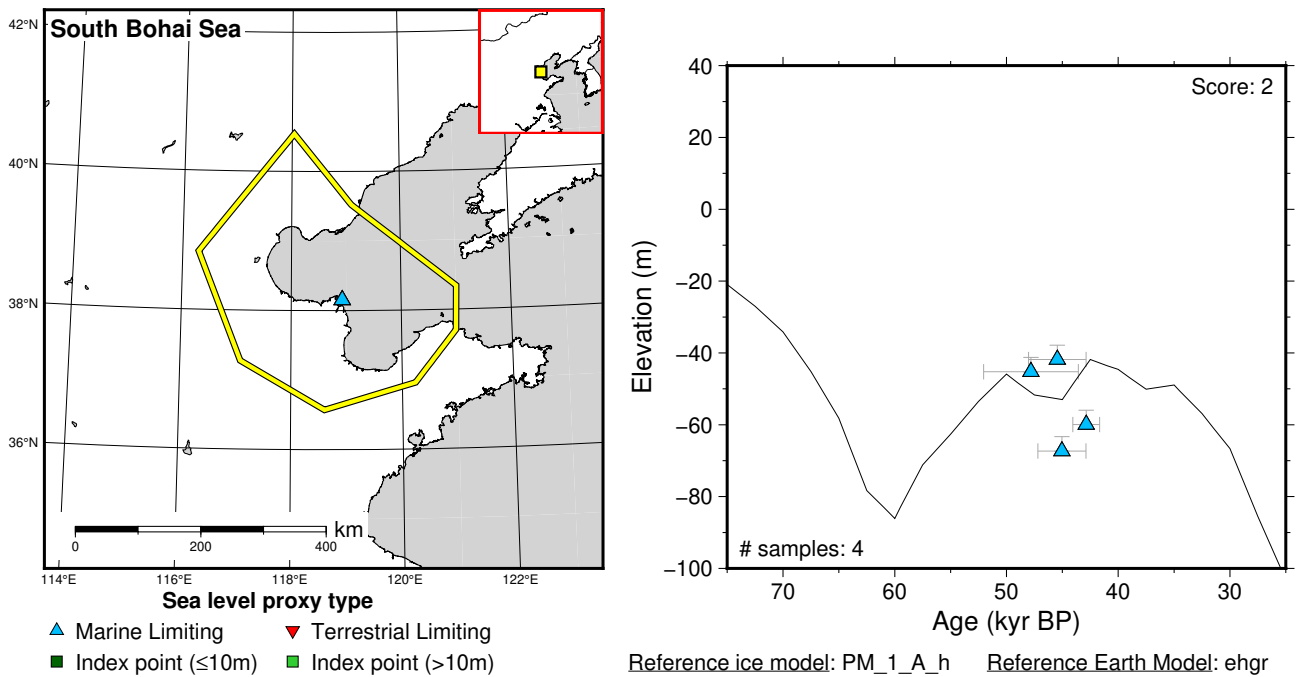


Figure 297: Paleo-sea level and comparison of six models for subregion: Yellow Sea, location: South Bohai Sea. References: Liu et al. (2009); Pico et al. (2016).

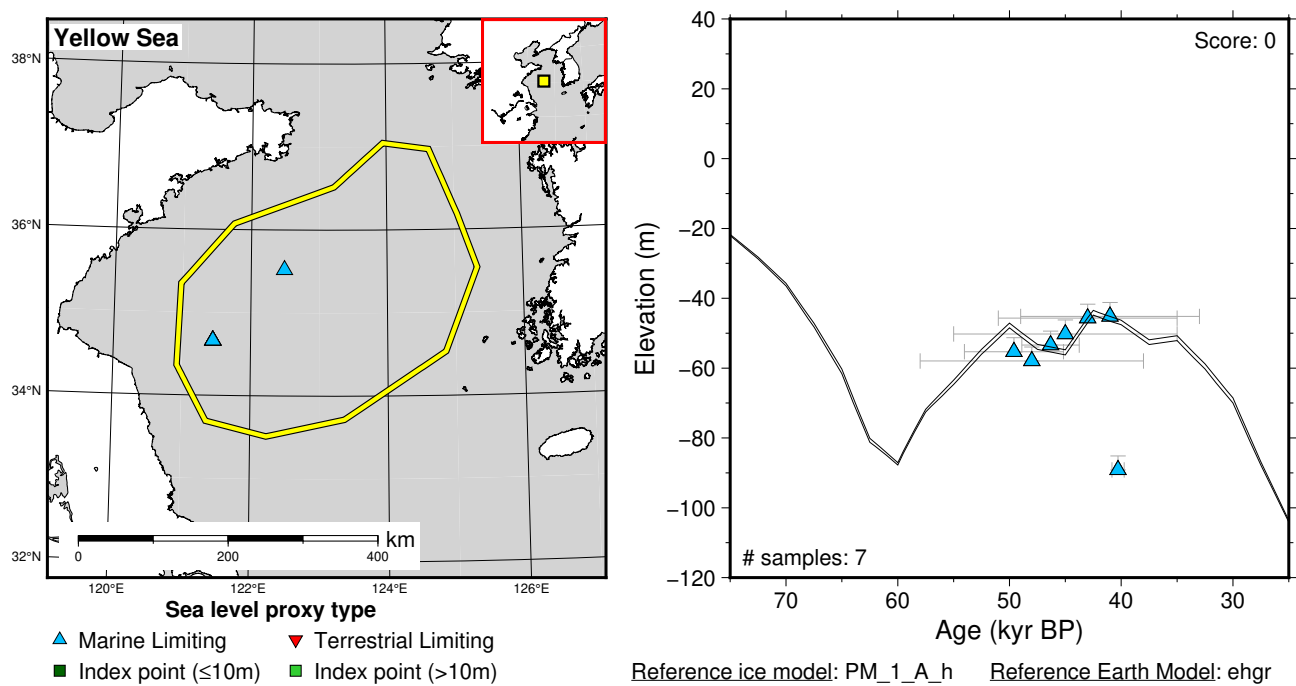


Figure 298: Paleo-sea level and comparison of six models for subregion: Yellow Sea, location: Yellow Sea. References: Liu et al. (2010); Pico et al. (2016); Wang et al. (2014).

7.5 Greenland

7.5.1 Northeast Greenland

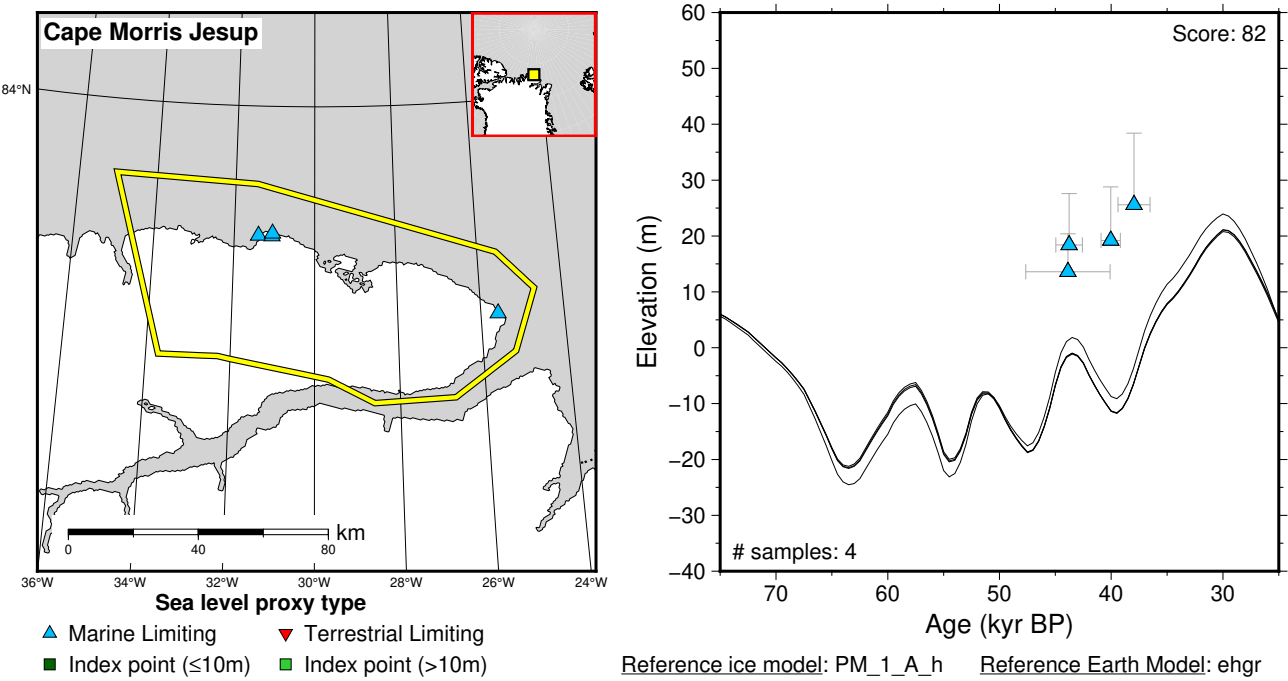


Figure 299: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Cape Morris Jesup. References: Funder et al. (2011).

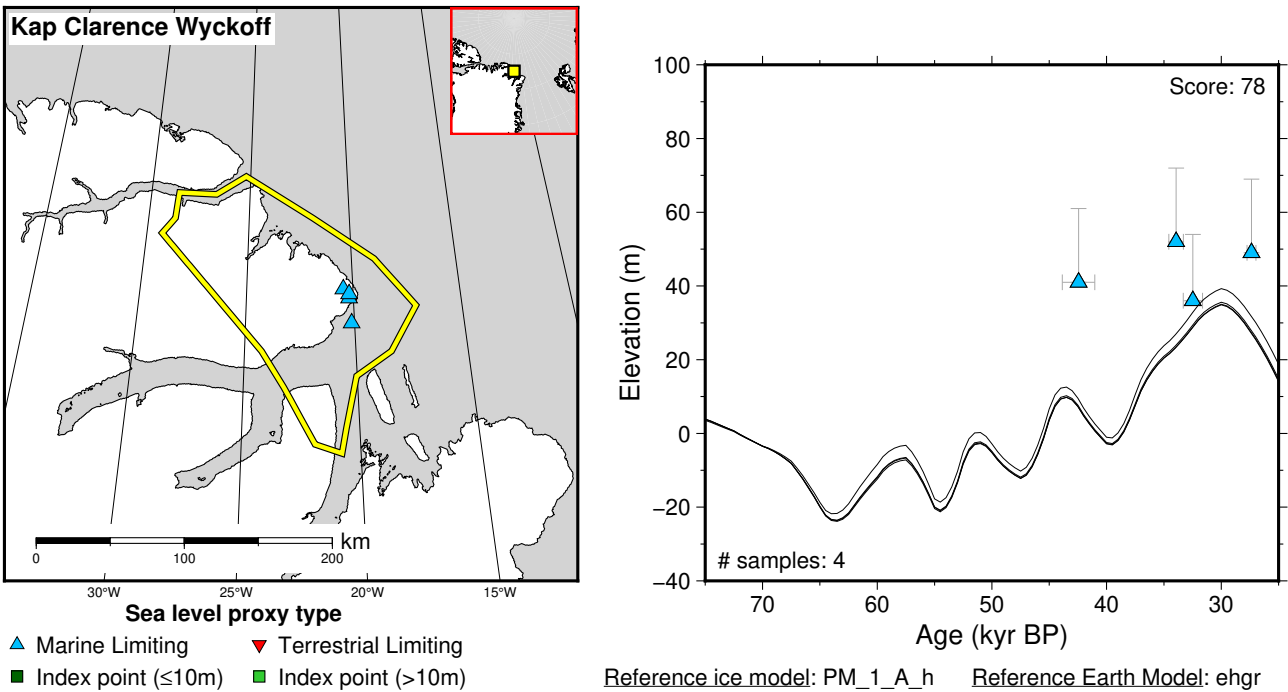


Figure 300: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Kap Clarence Wyckoff. References: Funder et al. (2011).

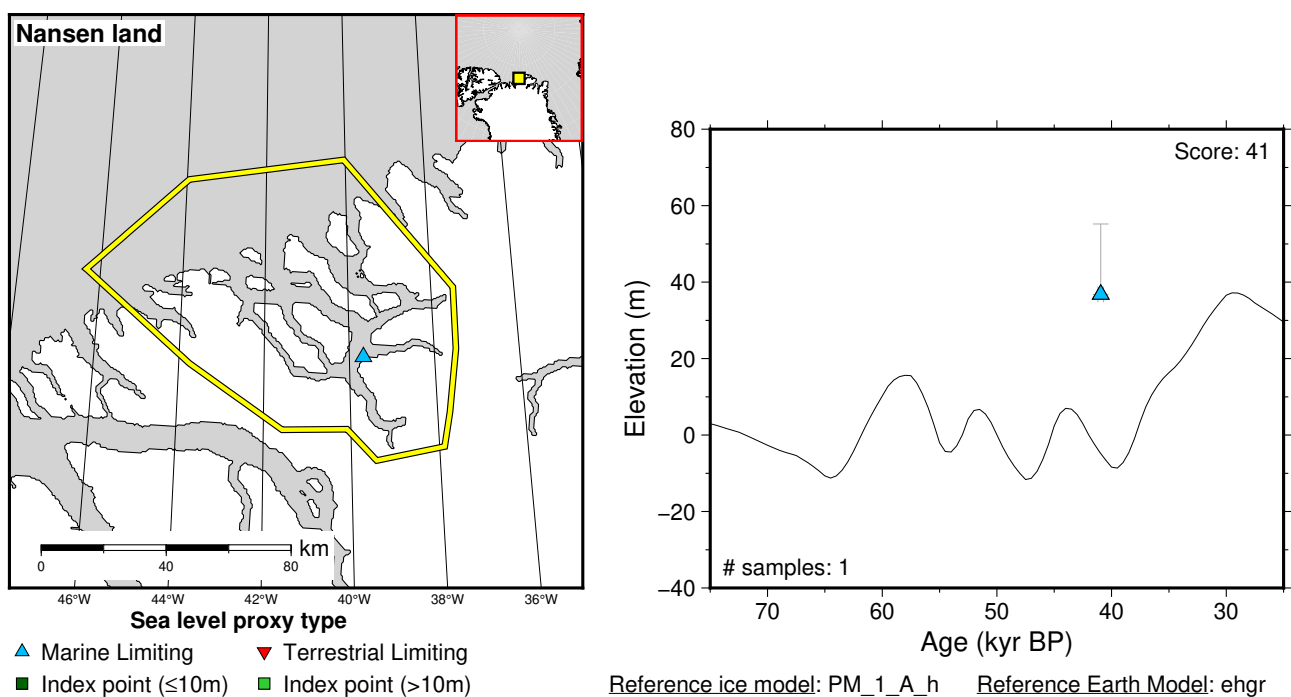


Figure 301: Paleo-sea level and comparison of six models for subregion: Northeast Greenland, location: Nansen land. References: Landvik et al. (2001).

7.6 North America Atlantic

7.6.1 Eastern United States

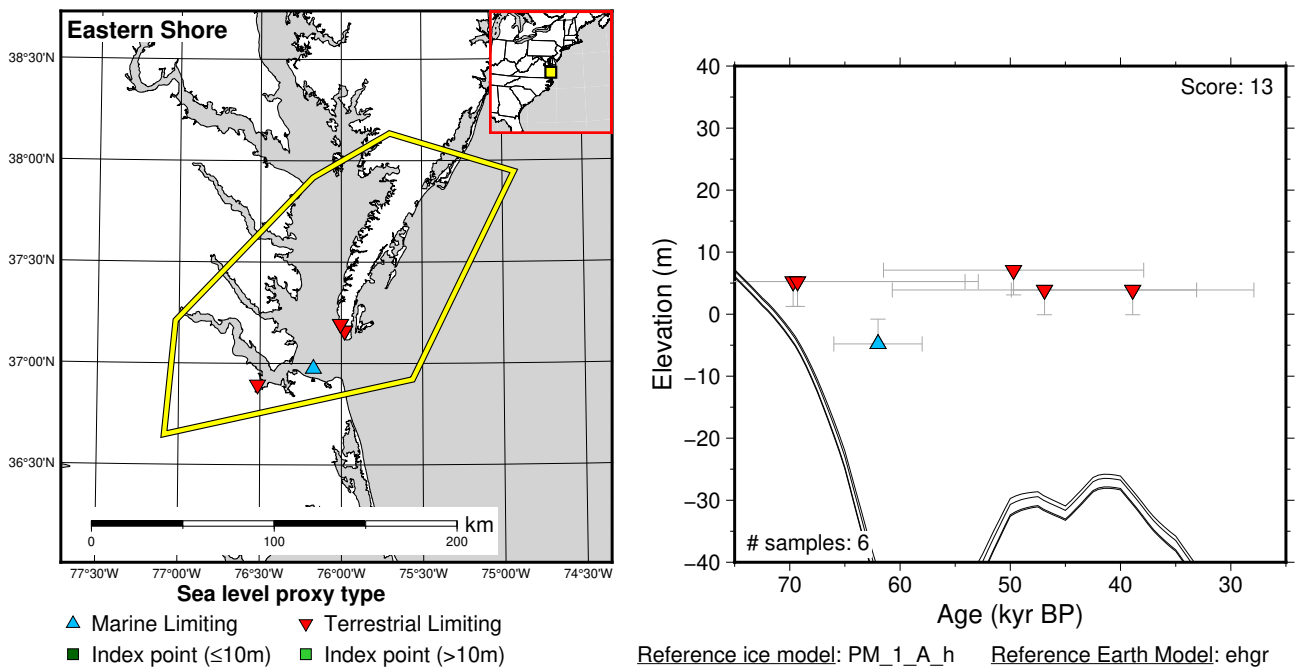


Figure 302: Paleo-sea level and comparison of six models for subregion: Eastern United States, location: Eastern Shore. References: Engelhart and Horton (2012); Mixon et al. (1982); Parham et al. (2013); Scott (2006).

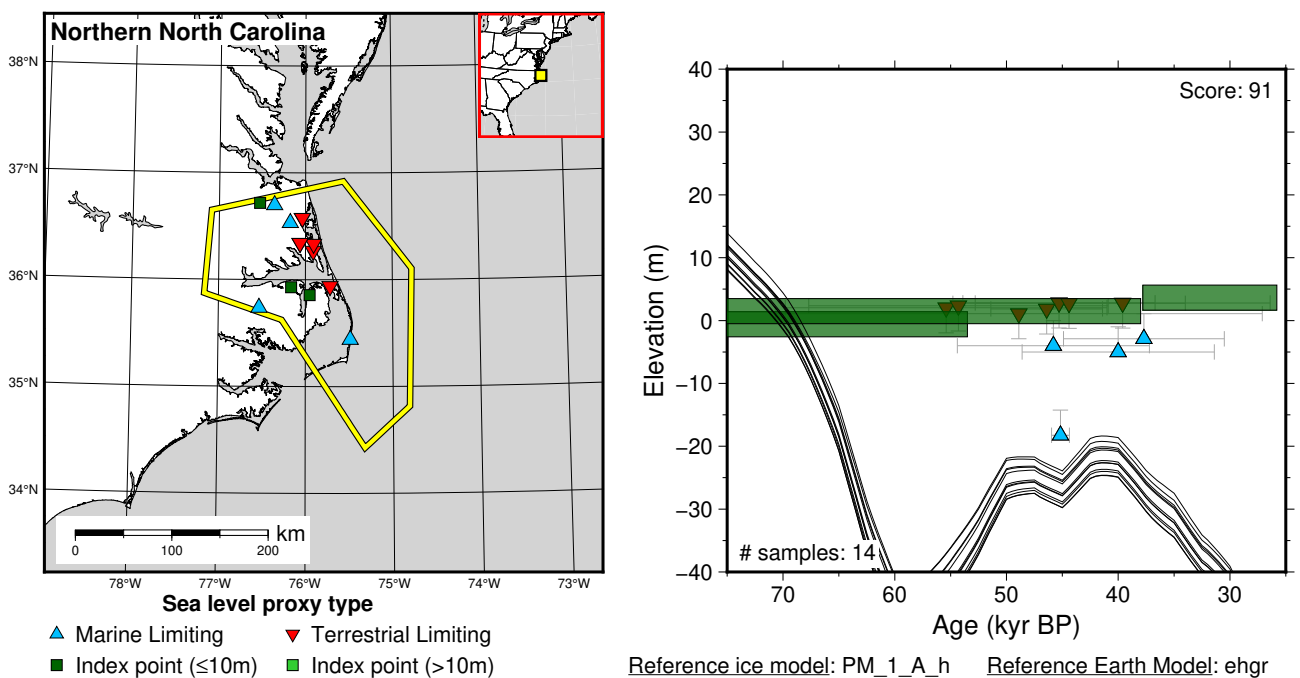


Figure 303: Paleo-sea level and comparison of six models for subregion: Eastern United States, location: Northern North Carolina. References: Culver et al. (2011); Mallinson et al. (2008); Parham et al. (2013); Pico et al. (2017); Scott (2006).

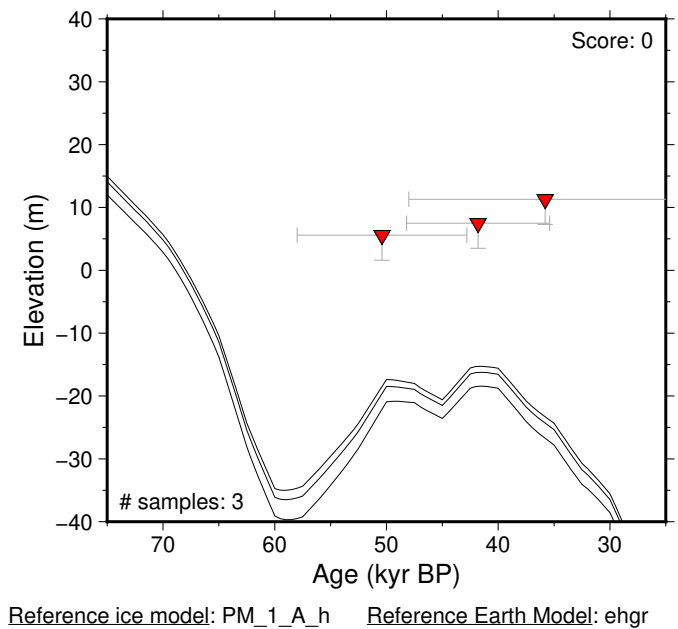
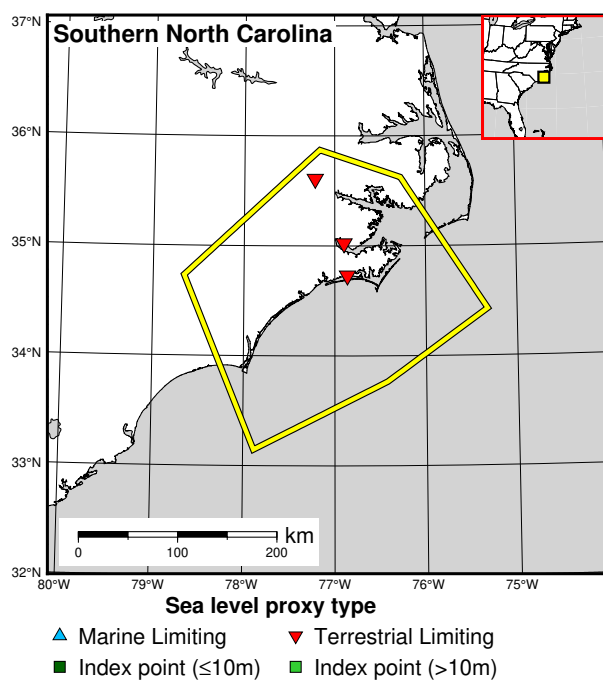


Figure 304: Paleo-sea level and comparison of six models for subregion: Eastern United States, location: Southern North Carolina. References: Best (2010); Moore (2009); Parham et al. (2013); Pico et al. (2017).

7.7 Pacific Islands

7.7.1 French Polynesia

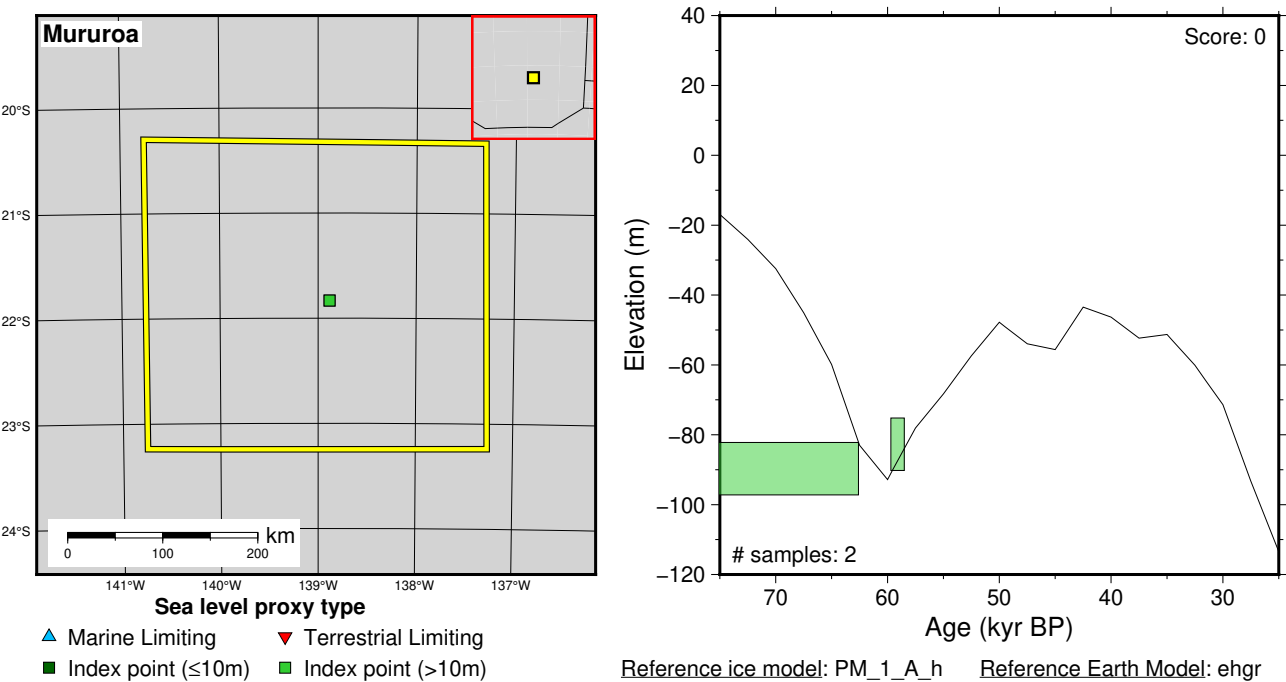


Figure 305: Paleo-sea level and comparison of six models for subregion: French Polynesia, location: Mururoa. References: Camoin et al. (2001); Hibbert et al. (2016).

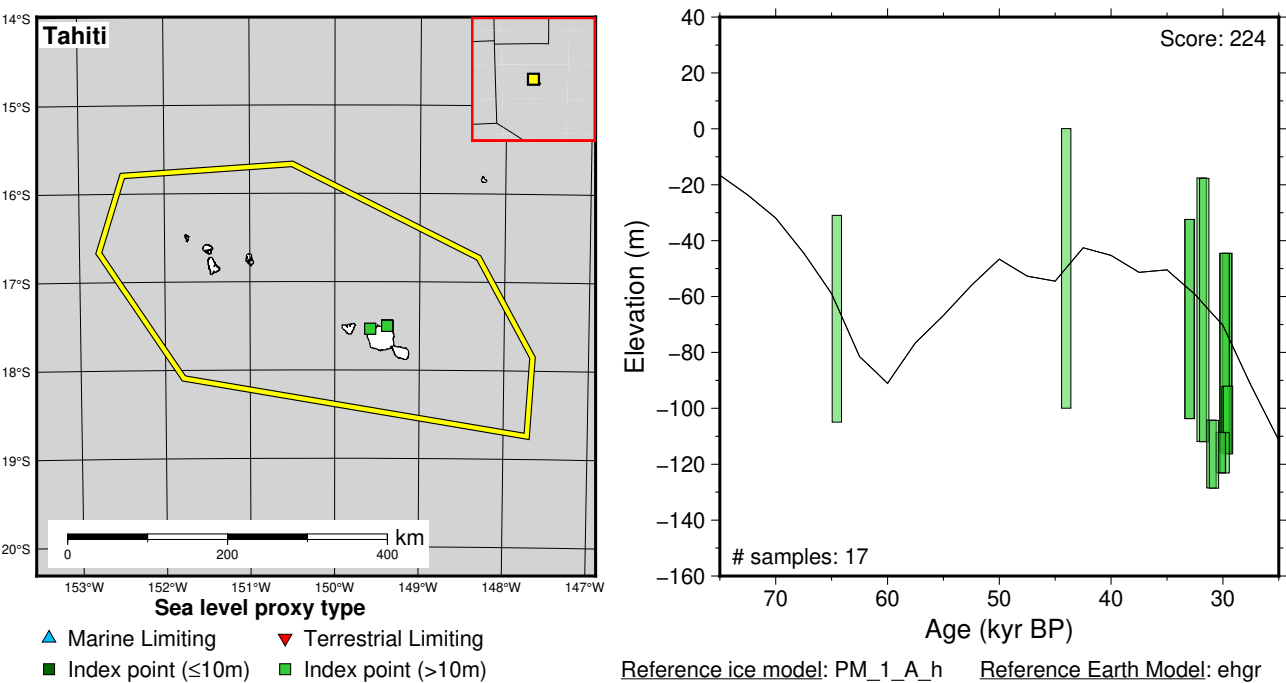


Figure 306: Paleo-sea level and comparison of six models for subregion: French Polynesia, location: Tahiti. References: Hibbert et al. (2016); Thomas et al. (2009).

7.7.2 Melansia

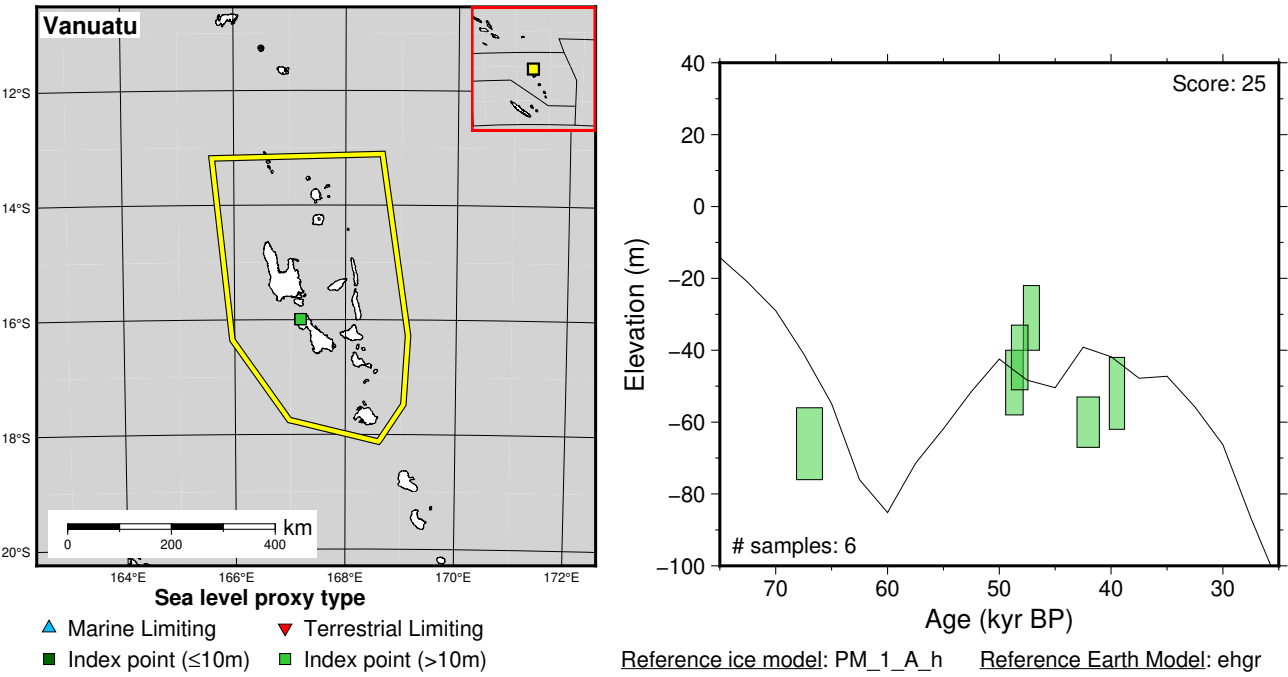


Figure 307: Paleo-sea level and comparison of six models for subregion: Melansia, location: Vanuatu. References: Cabioch and Ayliffe (2001).

7.8 Proxy Based Sea Level

7.8.1 Java Sea

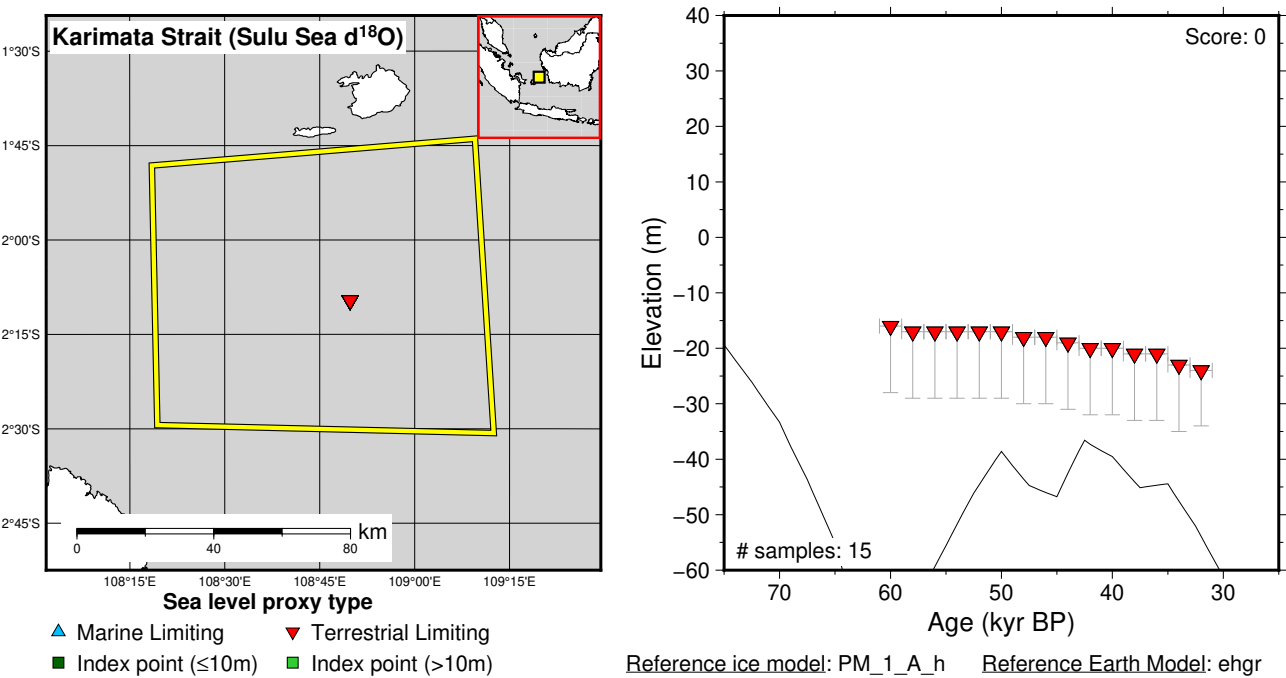


Figure 308: Paleo-sea level and comparison of six models for subregion: Java Sea, location: Karimata Strait (Sulu Sea $\delta^{18}\text{O}$ Proxy). References: Weiss et al. (2022).

7.8.2 Red Sea

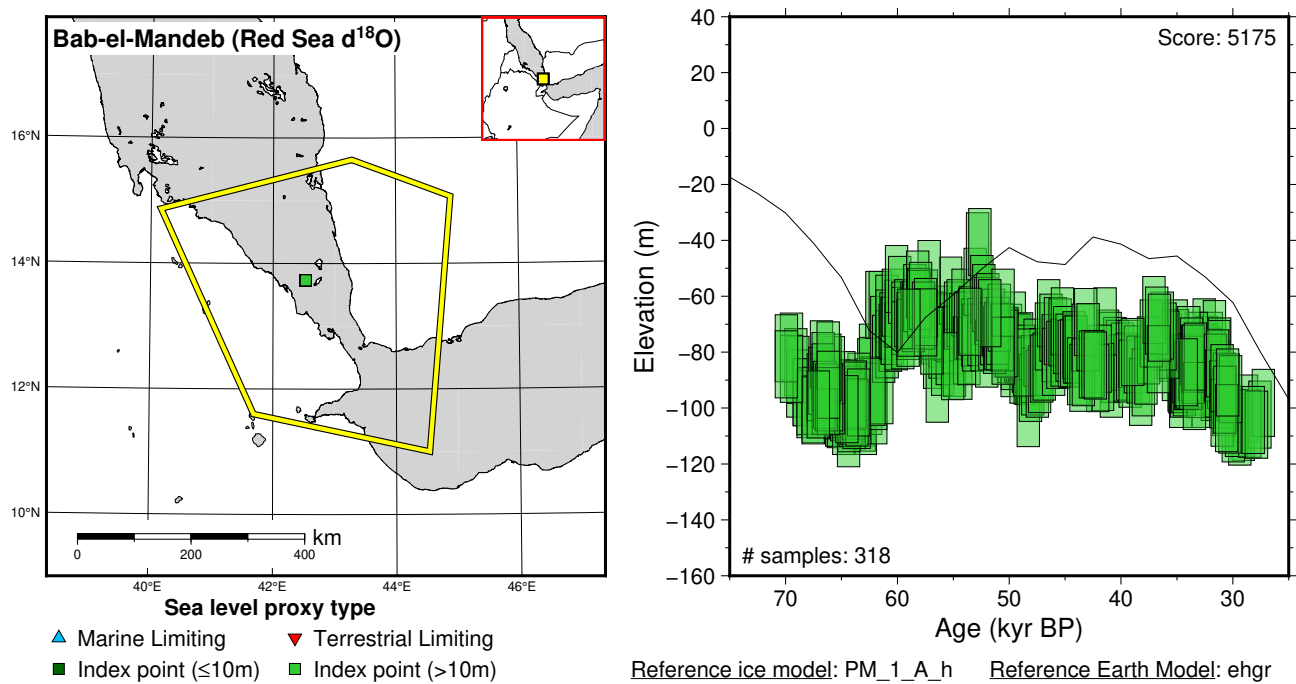


Figure 309: Paleo-sea level and comparison of six models for subregion: Red Sea, location: Bab-el-Mandeb (Red Sea $\delta^{18}\text{O}$ Proxy). References: Grant et al. (2012, 2014).

7.9 South Asia

7.9.1 Bay of Bengal

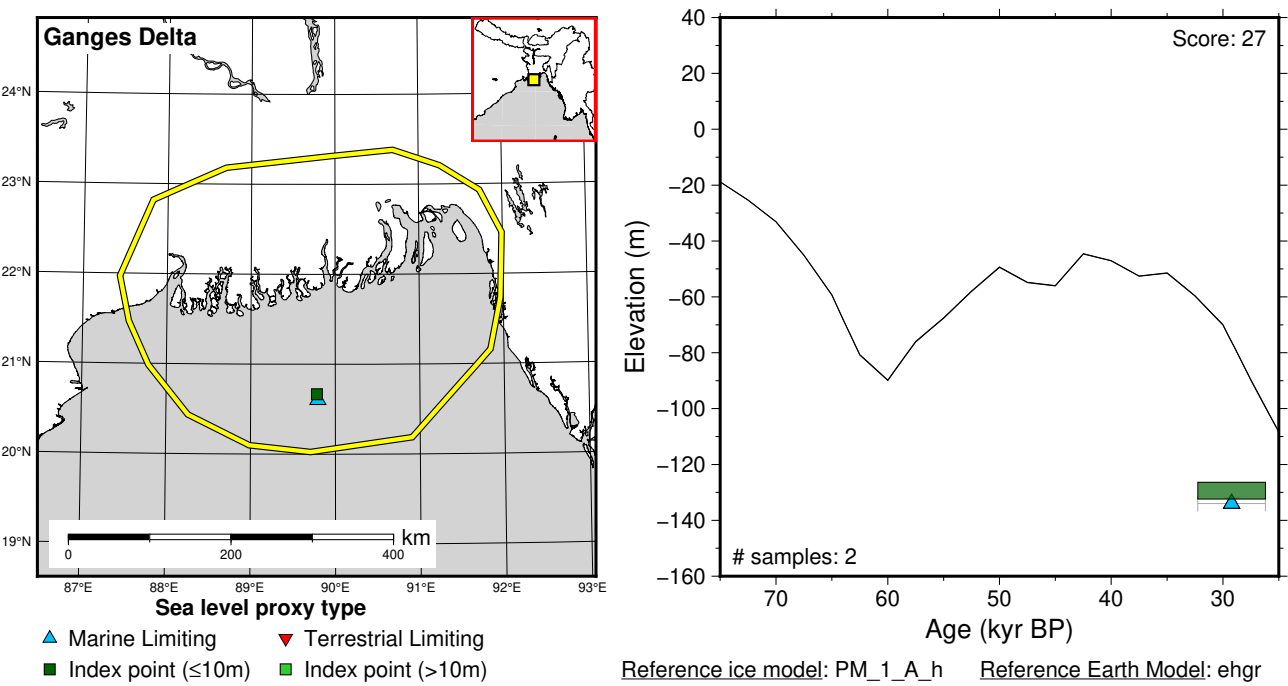


Figure 310: Paleo-sea level and comparison of six models for subregion: Bay of Bengal, location: Ganges Delta. References: Wiedicke et al. (1999).

7.10 Southeast Asia

7.10.1 Papua New Guinea

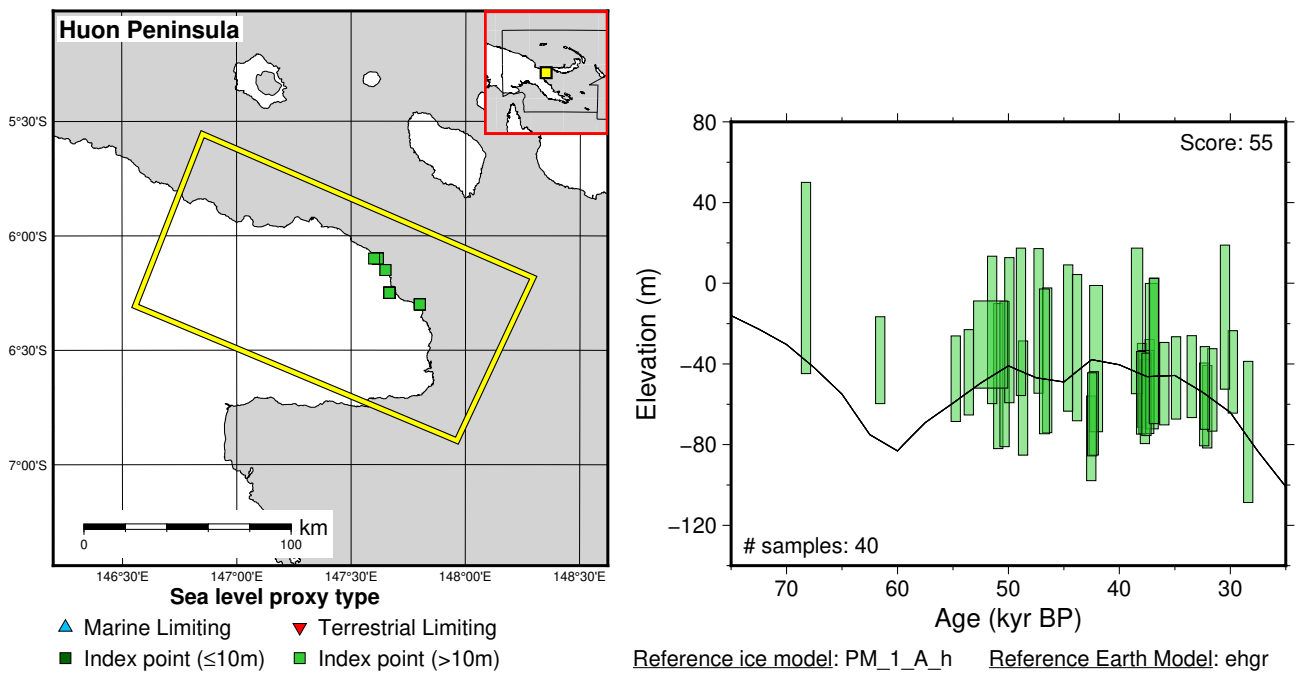


Figure 311: Paleo-sea level and comparison of six models for subregion: Papua New Guinea, location: Huon Peninsula. References: Chappell et al. (1996); Cutler et al. (2003); Hibbert et al. (2016); Yokoyama et al. (2001).

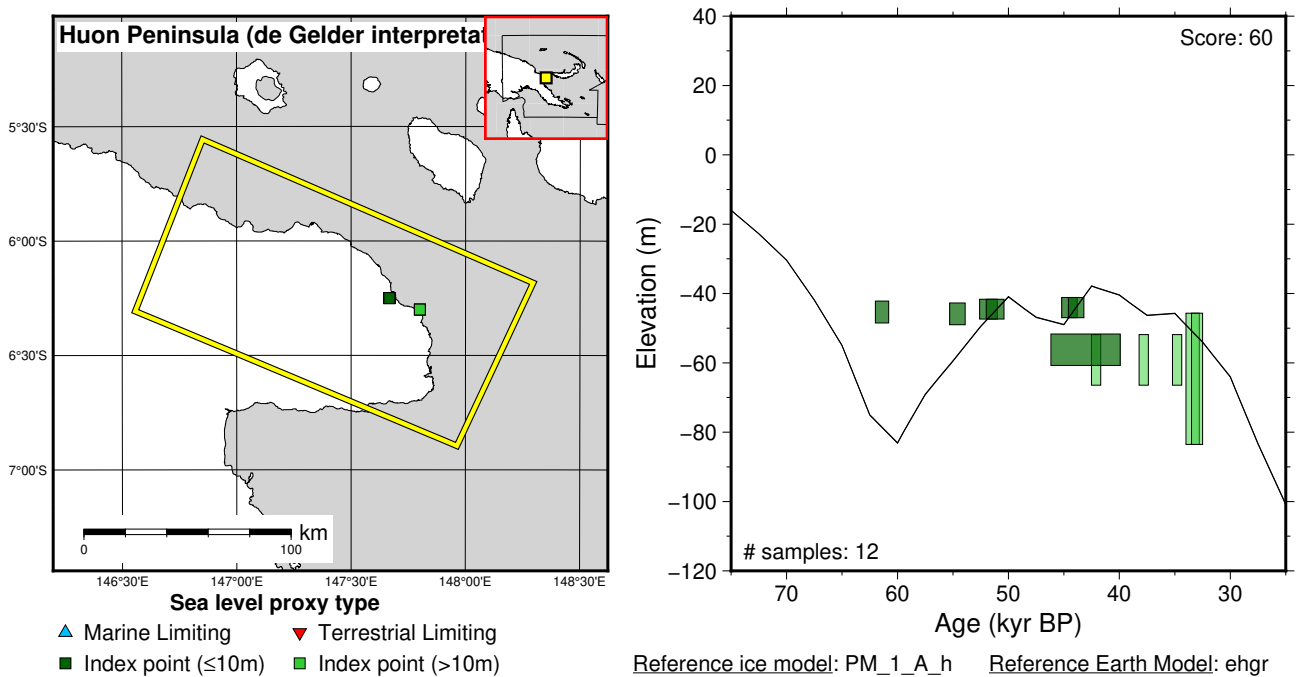


Figure 312: Paleo-sea level and comparison of six models for subregion: Papua New Guinea, location: Huon Peninsula (Interpretation by de Gelder et al.). References: Chappell (2002); Chappell et al. (1996); de Gelder et al. (2022).

7.10.2 South China Sea

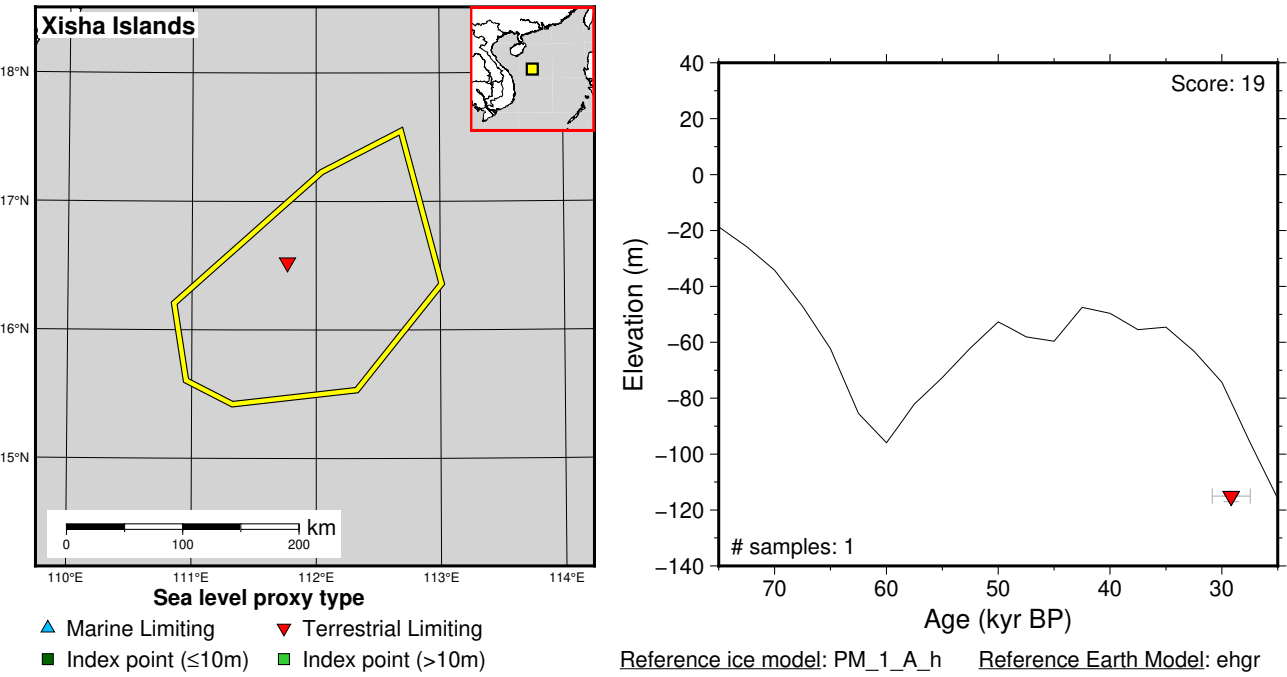


Figure 313: Paleo-sea level and comparison of six models for subregion: South China Sea, location: Xisha Islands. References: Yu et al. (2022).

7.10.3 Sundaland

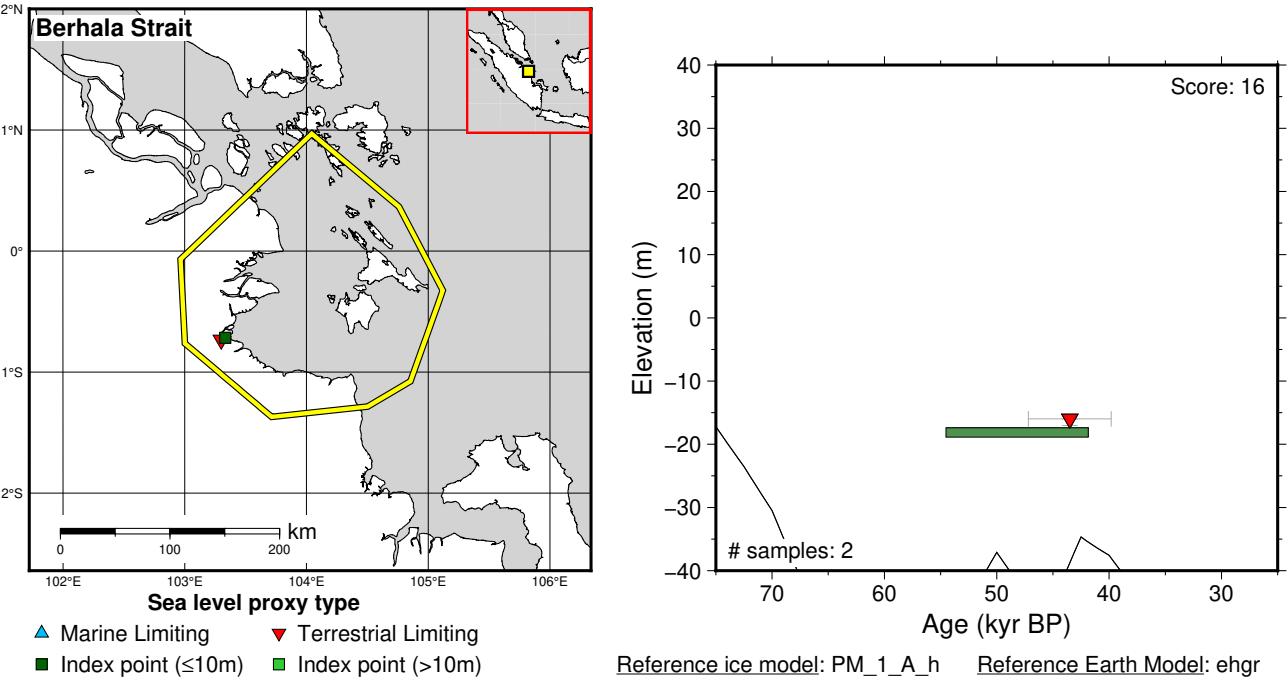


Figure 314: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Berhala Strait. References: Geyh et al. (1979); Mann et al. (2019).

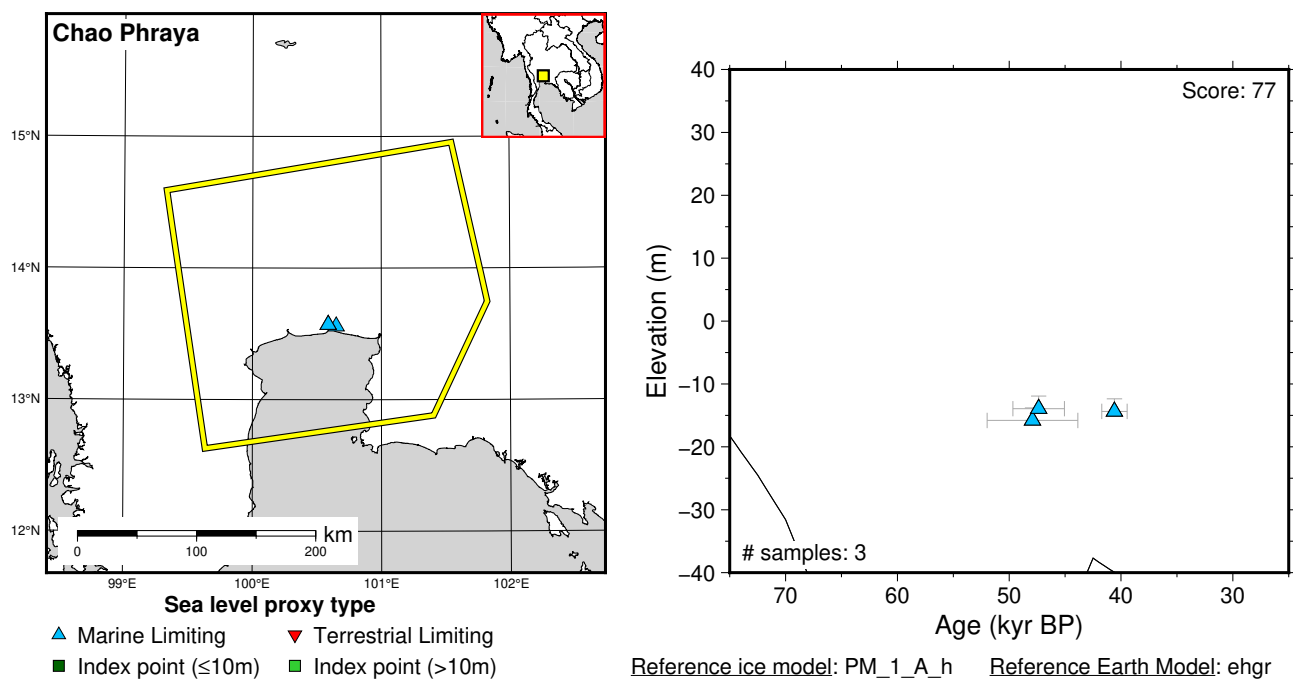


Figure 315: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Chao Phraya. References: Mann et al. (2019); Tanabe et al. (2003).

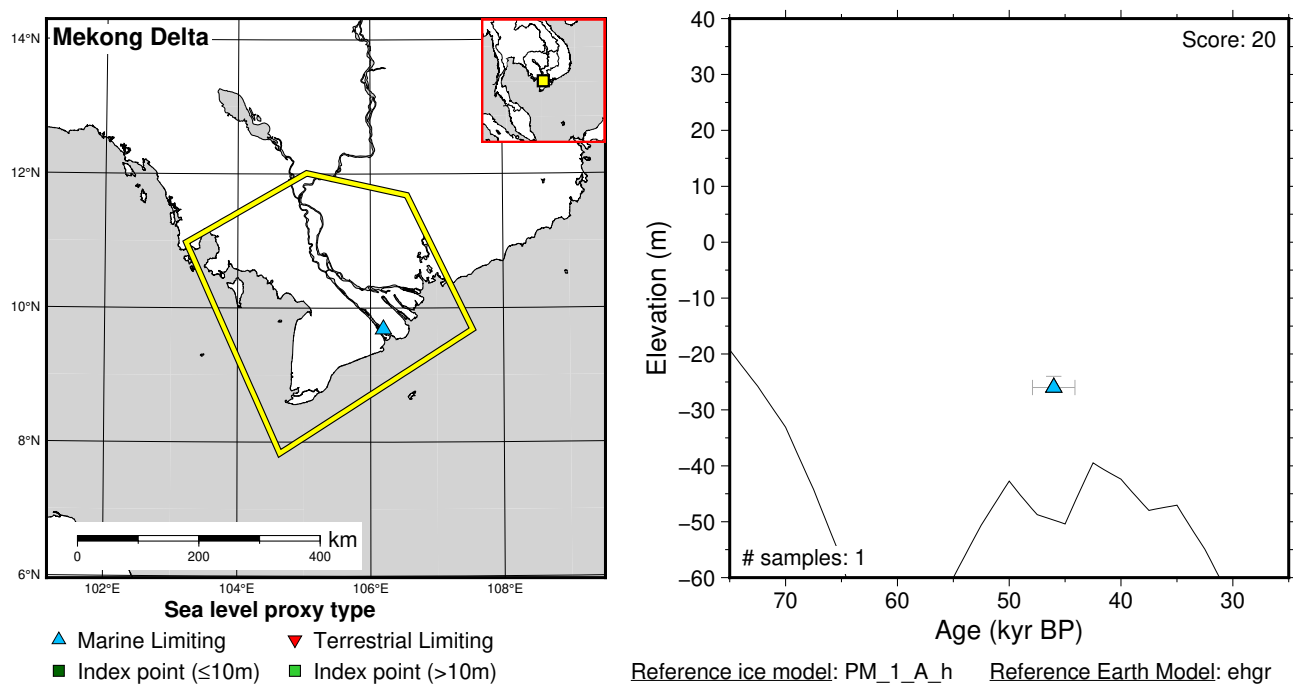


Figure 316: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Mekong Delta. References: Mann et al. (2019); Ta et al. (2002).

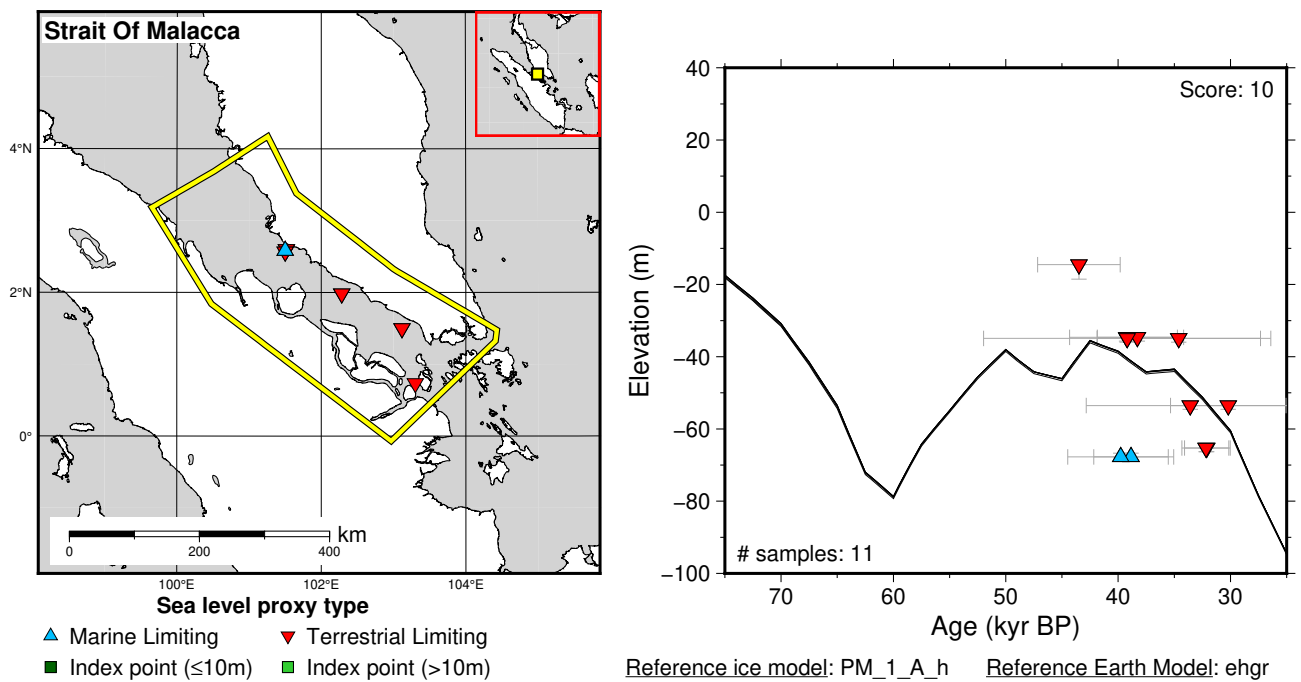


Figure 317: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Strait Of Malacca. References: Geyh et al. (1979); Mann et al. (2019).

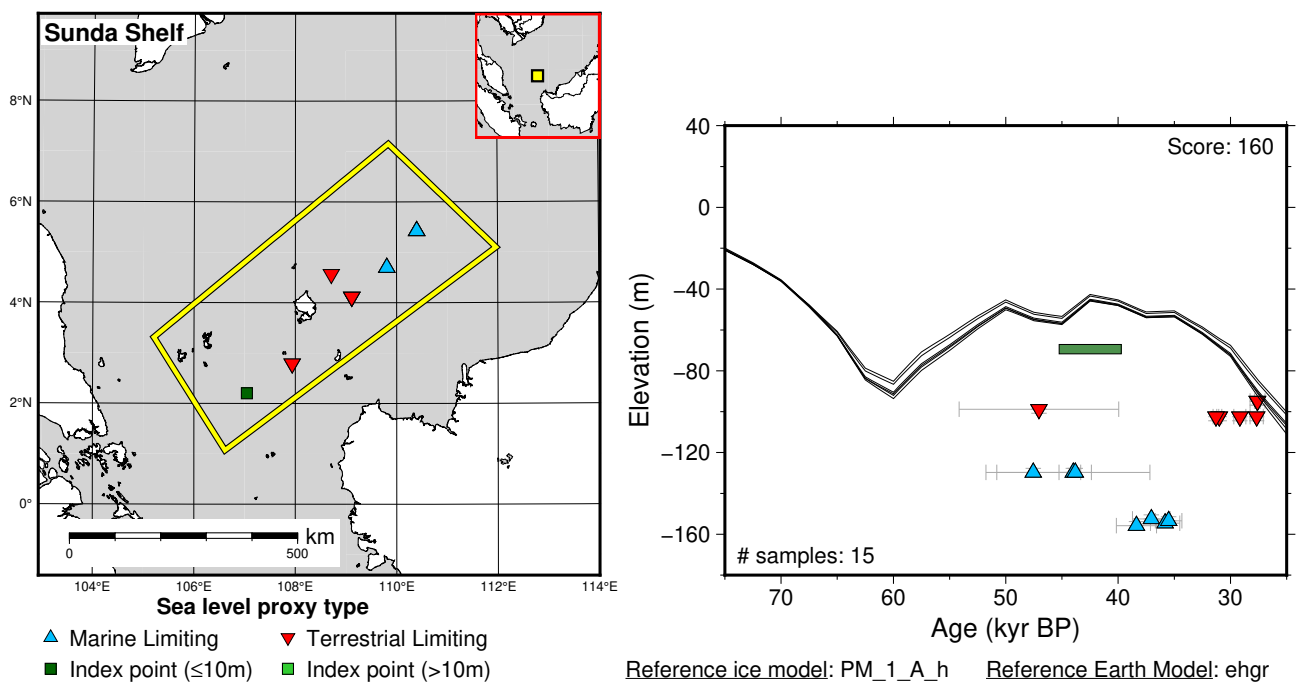


Figure 318: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Sunda Shelf. References: Hanebuth et al. (2003); Steinke et al. (2003).

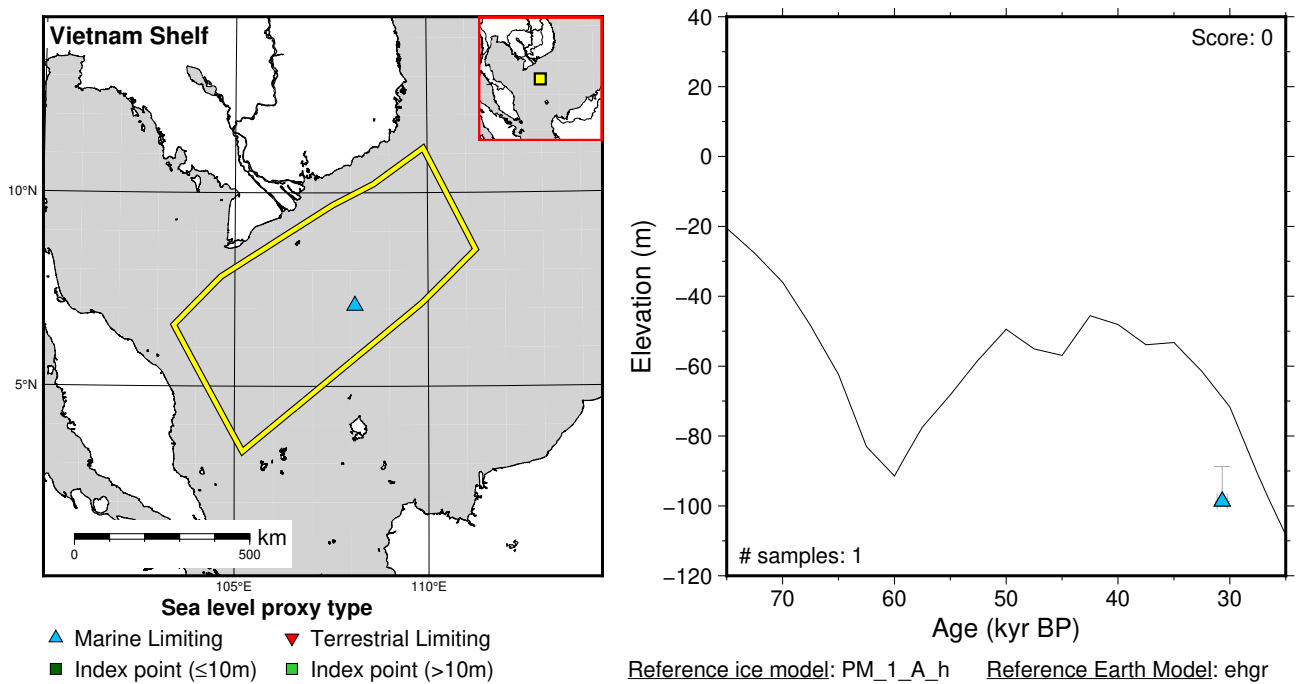


Figure 319: Paleo-sea level and comparison of six models for subregion: Sundaland, location: Vietnam Shelf. References: Schimanski and Stattegger (2005).

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