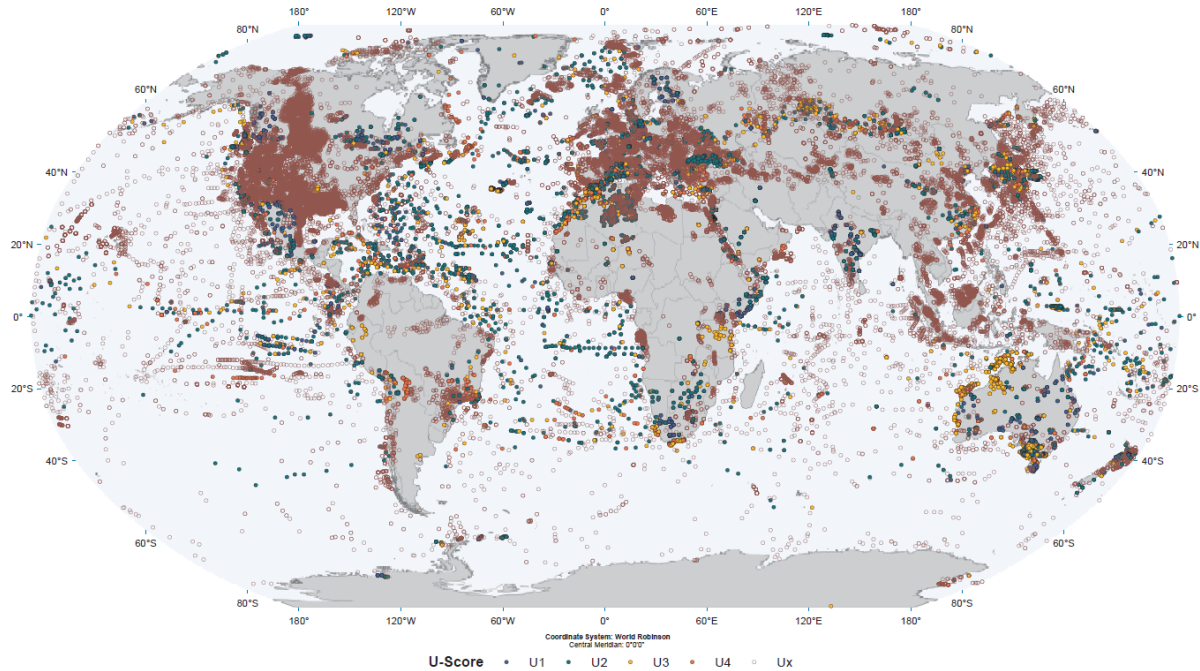


The Global Heat Flow Database: Release 2024

(<https://doi.org/10.5880/fidgeo.2024.014>)



Global Heat Flow Data Assessment Group, Sven Fuchs¹, Florian Neumann¹, Ben Norden¹, Elif Balkan-Pazvantoglu¹, Samah Elbarbary¹, Alexey Petrunin¹, Graeme Beardsmore², Robert Harris³, Raquel Negrete-Aranda⁴, Jeffrey Poort⁵, Massimo Verdoya⁶, Shaowen Liu⁷, Emma Chambers⁸, Karina Fuentes-Bustillos⁴, Eswara Rao Sidagam⁹, Jhon Camilo Matiz-León¹⁰, Mohammed Hichem Bencharef¹¹, Belay Gulte Mino², Mohamed S. Khaled¹², Denise Verch¹, Leonard Berger¹, Saman Firdaus Chishti¹, Viktoria Dergunova¹, Helena Liebing¹, Marvin Schulz¹, Pia Schuppe¹, Zlata Trepalova¹, Paolo Chiozzi¹³, Maria Rosa Alves Duque¹⁴, Florian Forster², Martina Levini¹⁵, Tobias Staal¹⁶

	Last name	First name	ORCID	Affiliation (Name, City, Country)	email
1	Fuchs	Sven	0000-0002-2896-6662	GFZ German Research Centre for Geosciences, Potsdam, Germany	fuchs@gfz-potsdam.de
1	Neumann	Florian	0000-0002-9666-5087	GFZ German Research Centre for Geosciences, Potsdam, Germany	fneu@gfz-potsdam.de
1	Norden	Ben	0000-0003-2228-9979	GFZ German Research Centre for Geosciences, Potsdam, Germany	norden@gfz-potsdam.de
1	Balkan-Pazvantoglu	Elif	0000-0002-8117-4576	GFZ German Research Centre for Geosciences, Potsdam, Germany	elif@gfz-potsdam.de
1	Elbarbary	Samah	0000-0002-1479-787X	GFZ German Research Centre for Geosciences, Potsdam, Germany	samelb@gfz-potsdam.de
1	Petrunin	Alexey	0000-0002-5439-4178	GFZ German Research Centre for Geosciences, Potsdam, Germany	alexey.petrunin@gfz-potsdam.de
2	Beardsmore	Graeme	0000-0003-4812-1146	University of Melbourne, Australia	g.beardsmore@unimelb.edu.au
3	Harris	Robert	0000-0002-4641-1425	Oregon State University	harrisr@oregonstate.edu
4	Negrete-Aranda	Raquel	0000-0003-3049-4374	Centro de Investigación Científica y de Educación Superior de Ensenada, Baja California	rnegrete@cicese.mx
5	Poort	Jeffrey	0000-0001-5964-9697	Sorbonne Université, CNRS, Institut des Sciences de la Terre de Paris, Paris, France	jeffrey.poort@sorbonne-universite.fr

6	Verdoya	Massimo	0000-0002-3845-6914	DISTAV, University of Genoa, Italy	massimo.verdoya@unige.it
7	Liu	Shaowen	0000-0002-9358-9648	School of Geography and Ocean Science, Nanjing University, China	shaowliu@nju.edu.cn
8	Chambers	Emma	0000-0001-6969-2920	School of Cosmic Physics, Dublin Institute for Advanced Studies, Dublin, Ireland	echambers@cp.dias.ie
4	Fuentes-Bustillos	Karina	0000-0002-9638-5771	Centro de Investigación Científica y de Educación Superior de Ensenada, Baja California	kfuentes@cicese.edu.mx
9	Sidagam	Eswara Rao	0000-0001-9268-6123	CSIR National Geophysical Research Institute, Hyderabad, India	eswar5063@gmail.com
10	Matiz-León	Jhon Camilo	0000-0002-1885-9804	Universidad Nacional de Colombia, Facultad de Ciencias, Departamento de Geociencias, Bogotá D.C., Colombia	jmatizl@unal.edu.co
11	Bencharef	Mohammed Hichem	0000-0002-3058-3652	Echahid Cheikh Larbi Tebessi University, Tebessa, Algeria	m.bencharef@univ-tebessa.dz
2	Mino	Belay G.	0000-0002-6289-4471	University of Melbourne	belay.mino@student.unimelb.edu.au
12	Khaled	Mohamed Shafik	0000-0001-8855-3504	The University of Texas at Austin	mohamed.khaled@beg.utexas.edu
1	Verch	Denise	0009-0005-2296-5297	GFZ German Research Centre for Geosciences, Potsdam, Germany	denise.verch@gfz-potsdam.de
1	Berger	Leonard		GFZ German Research Centre for Geosciences, Potsdam, Germany	leoberg@gfz-potsdam.de
1	Chishti	Saman Firdaus		GFZ German Research Centre for Geosciences, Potsdam, Germany	saman.firdaus.chishti@uni-potsdam.de
1	Dergunova	Viktoria	0009-0003-9565-6597	GFZ German Research Centre for Geosciences, Potsdam, Germany	dergun@gfz-potsdam.de
1	Liebing	Helena	0009-0008-5211-8242	GFZ German Research Centre for Geosciences, Potsdam, Germany	liebing@gfz-potsdam.de
1	Schulz	Marvin	0009-0007-1871-5900	GFZ German Research Centre for Geosciences, Potsdam, Germany	marvin.schulz@gfz-potsdam.de
1	Schuppe	Pia	0000-0002-0149-1142	GFZ German Research Centre for Geosciences, Potsdam, Germany	pia.schuppe@gmail.com
1	Trepalova	Zlata	0009-0004-4037-4194	GFZ German Research Centre for Geosciences, Potsdam, Germany	trep@gfz-potsdam.de
13	Chiozzi	Paolo	0000-0002-2950-5438	DISTAV, University of Genoa, Italy	chiozzi_rp@libero.it
14	Duque	Maria Rosa Alves	0000-0002-0350-9246	Universidade de Évora, Departamento de Física, Évora, Portugal.	mrada@uevora.pt
2	Forster	Florian	0000-0001-7452-7241	School of Earth Sciences, University of Melbourne, Australia	florian.forster@tutamail.com
15	Leveni	Martina	0000-0001-8896-002X	The Ohio State University, Columbus, Ohio, United States	leveni.1@osu.edu
16	Stål	Tobias	0000-0002-4323-6748	University of Tasmania, Tasmania, Australia	tobias.staal@utas.edu.au

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2. Citation

When using the data please cite:

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3. Data description

The data publication contains the compilation of global heat-flow data by the International Heat Flow Commission (IHFC; www.ihfc-iugg.org) of the International Association of Seismology and Physics of the Earth's Interior (IASPEI). The presented data update release 2024 contains data generated between 1939 and 2024 and constitutes the second intermediate update benefiting from the global collaborative assessment and quality control of the Global Heat Flow Database running since May 2021 (<http://assessment.ihfc-iugg.org>).

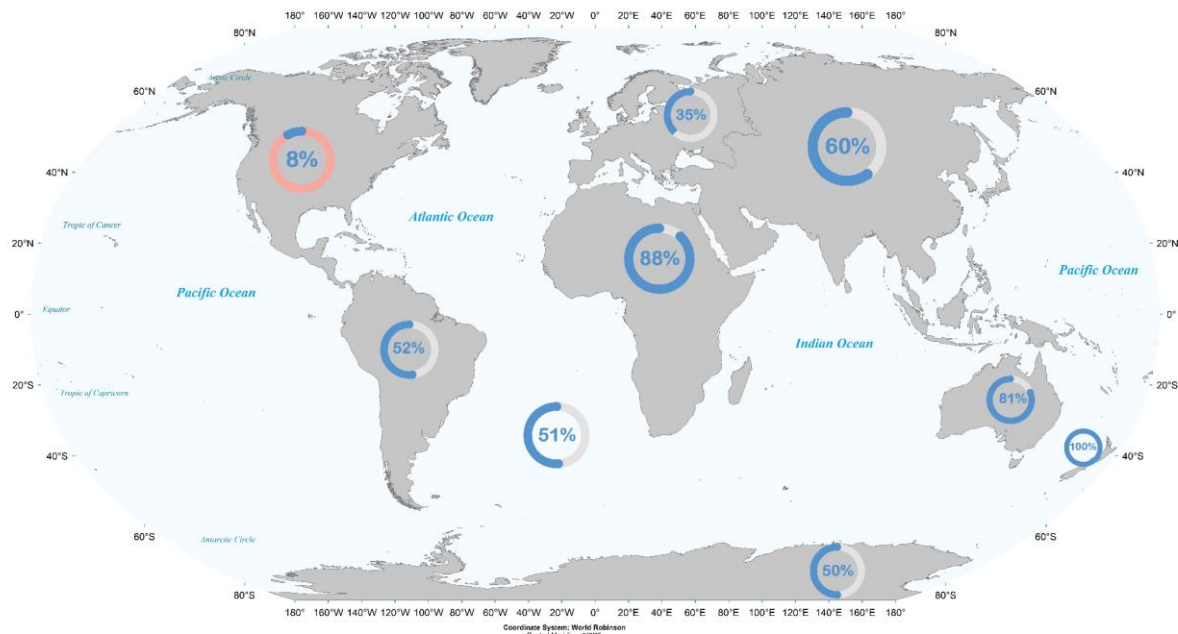
3.1. Data processing

The presented data release considers the most-recent definitions for structure and quality of heat-flow data in the Global Heat Flow Database (e.g. [Fuchs et al., 2023](#)). For the evolution of data, we refer to past publications, like [Global Heat Flow Data Assessment Group et al. \(2023\)](#) and [Fuchs et al., 2021b](#) as well as to the previous paper that describe the database concepts and definitions at that time ([Fuchs et al., 2021a](#) and [Jessop et al., 1976](#)).

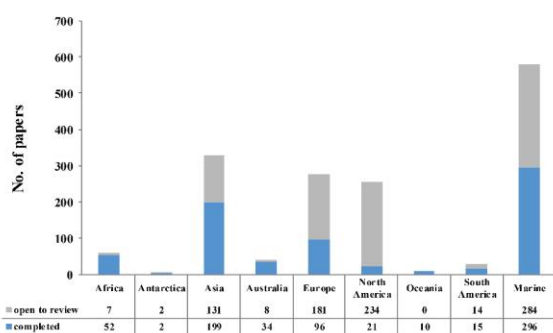
The current database concept has some distinct key features, namely: it is design for a relational database system, it consists of parent elements (listing location-specific information), child elements (heat-flow values with relevant meta-data) and additional fields, providing sufficient information for the evaluation of the quality of the heat-flow data. The presented structure assigns a 'desirability' classification to each field according to its relevance for understanding the quality of the reported heat-flow value; 'mandatory', 'recommended', or 'optional'. This classification defines mandatory fields that delineate minimum requirements for heat-flow values to be entered into the database. Beyond this, the new heat-flow scoring system is added and results are reported for each entry.

3.2. Heat-flow data

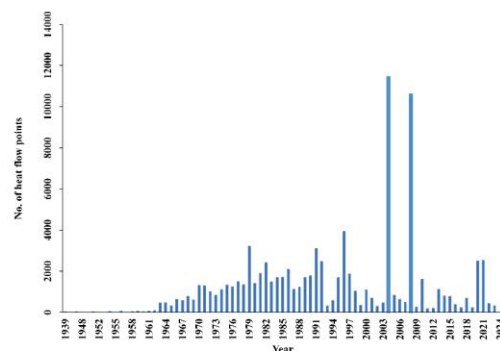
The data release comprises new original heat-flow data published since April 2023 (the update 2023). It contains 91,182 heat-flow data from 71,934 locations and 1,586 publications. 57% of the reported heat-flow values are from the continental domain (n ~54,553), while the remaining 43% are located in the oceanic domain (n ~36,692). The progress of data assessment is generally distributed heterogeneously across the continents and oceans, as shown in Figure 1.



GLOBAL HEAT FLOW DATABASE



Progress of HFDB Assessment across Continents



Global Literature on Heat Flow Over Time

Figure 1: Assessment rate (top), distribution of heat flow data across continents (bottom left) and publications over time (bottom right). Top map: blue segments are assessed data rate; red segment is open to review for North America.

4. File description

4.1. Description of data tables

The files IHFC_2024_GHFDB.txt or IHFC_2024_GHFDB.xlsx contain:

Abbreviations – Level: Parent level (P), child level (C); Scheme: Applicable for borehole and mine data (B), applicable for probe sensing data in oceans and lakes (S), relevant for all (BS); Classification – Class: Mandatory (M), Recommended (R), Optional (O); Field: Field numbers defined in [Fuchs et al. \(2023\)](#)

In the excel file, first six rows are header information about field ID (row 1), Class (row 2), Scheme (row 3), relevance for quality scoring (row 4), unit (row 5), and column header (row6).

Field ID	Column header	Unit	Short description	Level	Scheme	Class
P1	q	mW/m ²	Terrestrial heat-flow (hf) value after all corrections for instrumental and environmental effects	P	B,S	M
P2	q_uncertainty	mW/m ²	Uncertainty standard deviation (SD) of q	P	B,S	M
P3	name	-	Name of the related hf site	P	B,S	M
P4	lat_NS	degrees	N-S coordinate	P	B,S	M

P5	long_EW	degrees	E-W coordinate	P	B,S	M
P6	elevation	m	Height above or below mean sea level	P	B,S	M
P7	environment	-	Geographical setting of the hf site	P	B,S	M
P8	p_comment	-	Comments on the reported hf	P	B,S	R
P9	corr_HP_flag	-	Contribution of the heat production of the overburden to the terrestrial surface heat flow q or not?	P	B,S	R
P10	total_depth_MD	m	Total measured depth	P	B	R
P11	total_depth_TVD	m	Total true vertical depth	P	B	R
P12	explo_method	-	Type of exploration method	P	B,S	M
P13	explo_purpose	-	Main purpose of exploration	P	B	R
C1	qc	mW/m ²	Any kind of hf value	C	B,S	M
C2	qc_uncertainty	mW/m ²	Uncertainty standard deviation (SD) of qc	C	B,S	R
C3	q_method	-	Method of hf calculation	C	B,S	M
C4	q_top	m	Depth of top hf interval	C	B,S	M
C5	q_bottom	m	Depth of bottom hf interval	C	B	M
C6	probe_penetration	m	Penetration depth of probe	C	S	M
C7	publication_reference	-	Literature reference	C	B,S	M
C8	data_reference	-	Supporting literature references	C	B,S	R
C9	relevant_child	-	qc is used for computation of representative heat flow values at the parent level or not	C	B,S	M
C10	c_comment	-	Comments for child entries	C	B,S	R
C11	corr_IS_flag	-	In-situ pressure and temperature conditions were considered to the reported thermal conductivity value or not.	C	B,S	M
C12	corr_T_flag	-	T data corrected for instrumental effects or not	C	B,S	M
C13	corr_S_flag	-	Specifies the sedimentation/subsidence effects concerning the reported hf	C	B,S	M
C14	corr_E_flag	-	Specifies the erosion effects concerning the reported hf	C	B,S	M
C15	corr_TOPO_flag	-	Specifies the topographic effects concerning the reported hf	C	B,S	M
C16	corr_PAL_flag	-	Specifies the climatic conditions (glaciation, post-industrial warming, etc.) concerning the reported hf	C	B,S	M
C17	corr_SUR_flag	-	Specifies the surface temperature variation (B) or bottom water temperature variation (S) concerning the reported hf	C	B,S	M
C18	corr_CONV_flag	-	Specifies the convection effects concerning the reported hf	C	B,S	M
C19	corr_HR_flag	-	Specifies the refraction effects concerning the reported hf	C	B,S	M
C20	expedition	-	Expedition, cruise, platform, or research vessel name or number where hf conducted	C	B,S	R
C21	probe_type	-	Type of hf probe	C	S	R
C22	probe_length	m	Length of probe	C	S	R
C23	probe_tilt	degree	Tilt of probe	C	S	M
C24	water_temperature	°C	Bottom water temperature	C	S	O
C25	geo_lithology	-	Dominant rock type for hf interval	C	B,S	O
C26	geo_stratigraphy	-	Stratigraphic age of hf interval	C	B,S	O
C27	T_grad_mean	K/km	Measured T gradient	C	B,S	M
C28	T_grad_uncertainty	K/km	Uncertainty (SD) of gradT	C	B,S	R
C29	T_grad_mean_cor	K/km	Corrected T gradient	C	B,S	O
C30	T_grad_uncertainty_cor	K/km	Uncertainty (SD) of corrected gradT	C	B,S	O
C31	T_method_top	-	The method used for temperature determination at the top	C	B	M
C32	T_method_bottom	-	The method used for temperature determination at the bottom	C	B	M
C33	T_shutin_top	hr	Time after end of drilling/end of mud circulation at the top	C	B	R
C34	T_shutin_bottom	hr	Time after end of drilling/end of mud circulation at the bottom	C	B	R
C35	T_corr_top	-	Correction method applied at the top	C	B	R
C36	T_corr_bottom	-	Correction method applied at the bottom	C	B	R
C37	T_number	-	Number of discrete temperature points	C	B,S	R
C38	q_date	YYYY-MM	The acquisition date of T data	C	B,S	M
C39	tc_mean	W/(mK)	Mean conductivity in vertical direction	C	B,S	M
C40	tc_uncertainty	W/(mK)	Uncertainty (SD) of TC mean	C	B,S	R
C41	tc_source	-	Nature of the samples	C	B,S	M
C42	tc_location	-	Location of the samples	C	B,S	M
C43	tc_method	-	Method used for TC determination	C	B,S	M
C44	tc_saturation	-	Saturation state of the rock sample	C	B,S	M

C45	tc_pT_conditions	-	pT conditions of TC determination	C	B,S	M
C46	tc_pT_fuction	-	Technique or approach used to consider pT conditions	C	B,S	R
C47	tc_number	-	Number of discrete TC determinations	C	B,S	M
C48	tc_strategy	-	Strategy to estimate the TC over the vertical hf interval	C	B,S	R
C49	Ref_ISGN	-	International Generic Sample Numbers	C	B,S	O
	Reviewer_name	-		A	-	-
	Reviewer_comment	-		A	-	-
	Review_date	-		A	-	-
	Review_status	-		A	-	-
	Country	-		A	-	-
	Region	-		A	-	-
	Continent	-		A	-	-
	Domain	-	Continental/marine	A	-	-
	Year	-	Year of publication	A	-	-
	Quality code	-	According to IHFC quality standards - Fuchs et al. (2023)	A	-	-
	ID_location		ID of location (parent heat flow)	A	-	-
	ID	-	Unique ID of heat flow entry	A	-	-

Table 1: Table columns of data table.

5. Change log and revision status

The database release 2024 is an update of the 2023 release (Global Heat Flow Assessment Group et al., 2023). The following actions took place:

- 1) New data from 176 publications (141 continental, 35 marine) with 12,113 data, published between 1954 and 2024, have been accepted.
- 2) Data from 549 publications, with 29,809 data points, already contained in the 2023 release, have been systematically quality assessed.

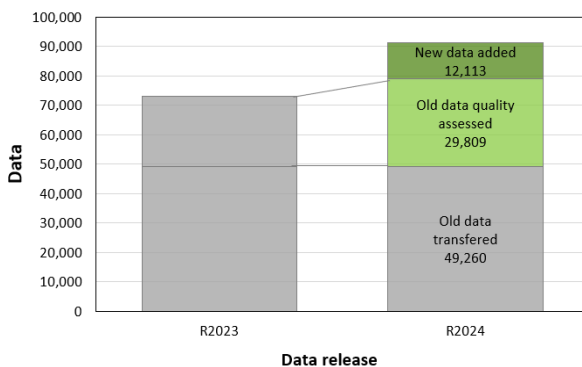


Figure 2: Change from release 2023 to release 2024

Compared to the last IHFC database release of 2023 (73,033 heat-flow data), 91,182 heat-flow data (71,891 locations) from 1,586 publications have been considered for the present release. Circa 46% of data (725 publications with 41,922 data from 23,925 sites) were revised by 42 contributors. For the reassessed historical data, mandatory data fields are filled to 83%, while this is the case for only 35% of the data not assessed yet. 48% of the marine data and 45% of the global continental data are updated so far (an overall rate of 46% of data compared to 18% in 2023). Ongoing work aims to finish the continental data before improving the marine data.

5.1 Newly added publications:

Akhmedzyanov_etal._2012b, Alfaro_etal._2010, Avetisyyants_etal._1968, Bachu_etal._1995, Bakhova_2021, Balkan-Pazvantoglu_etal._2021, Beltran_Quintanilla_2001, Bertaux_etal._1978, Brock_etal._1991, Bullard_1954,

Catalan_etal._2023, Chavez_etal._2000, Dorofeeva_etal._1995, Duchkov_etal._1979, Duchkov_etal._1980, Duchkov_etal._1989, Duchkov_etal._1992, Duchkov_etal._1999a, Duchkov_etal._2001, Duchkov_etal._2010, Duchkov_etal._2023, Duchkov_Rakityansky_1989, Dzhamalova_1969, Eckstein_1977, Eckstein_Maurath_1995, Ehara_1971a, Ehara_1977, Erkan_2015, Erkan_Balkan-Pazvantoglu_2023, Ewing_etal._1961, Feng_etal._2019, Flueh-Grevemeyer_2005, Folinsbee_1969, Fotiadi_etal._1969, Francheteau_etal._1984, Fytikas_Kolios_1979, Gable_1979a, Gerner_etal._2012, Gettings_1982, Gettings_1983, Gettings_Showail_1982, Golovanova_1997b, Golubev_1978, Gomes_etal._2021, Gonzalez-Lopez_1997, Gordienko_etal._2005, Gordienko_etal._2013, Gordienko_etal._2014, Gordienko_etal._2015a, Gordienko_etal._2015b, Gordienko_etal._2018, Gornov_2009, Goswami_etal._2024, Gregory_etal._2023, Gupta_etal._2014, Gupta_Gaur_1984, Gupta_Sharma_2018, Haenel_Zoth_1982, He_Middleton_2002, Hendrawan_Draniswari_2016, Horai_1959, Horai_1963a, Horai_1963b, Horai_1963c, Ilkisik_etal._1996, Ilkisik_etal._1997, Iriyama_1981, Iriyama_1995, Jones_etal._2011, Jones_Schreiber-Enslin_2022, Kanyuan_etal._1994, Khutorskoy_etal._1986b, Khutorskoy_etal._2013, Khutorskoy_Polyak_2014, Kirkby_Gerner_2010, Kirkby_Gerner_2013, Kutas_etal._1976, LaCruz_etal._2020, Lesquer_etal._1988, Liao_etal._2023, Louden_Mareschal_1996, Lucazeau_Rolandone_2012, Lysak_1974, Lyubimova_etal._1964b, Macgregor_2020, Matsumoto_etal._2022, Matvienko_Sergienko_1976c, McGiveron_Jong_2018, Mesecar_1968, Moiseenko_etal._1973, Moiseenko_Sokolova_1967a, Moiseenko_Sokolova_1967b, Morgan_etal._1980, Nagihara_etal._1993, Neumann_etal._2023, Norvell_etal._2023, Pandey_1981a, Pandey_1991, Phillips_etal._1969, Pigott_Betis_1996, Podugu_etal._2017, Prol-Ledesma_etal._2013, Prol-Ledesma_etal._2021, Puzankov_etal._1977, Qiu_etal._2022, Rao_etal._1970b, Rao_etal._1976, Rao_Rao_1980, Ray_2021, Reitzel_1961b, Rimi_Lucazeau_1991, Roded_2012, Roded_etal._2013, Roy_2008, Roy_Decker_1965, Roy_etal._2003, Roy_etal._2007, Salnikov_1984, Sanchez-Zamora_etal._1991, Savostin_1979, Savostin_etal._1974, Sayin_Guerer_2021, Schoonmaker_Ladd_1984, Schuetz_etal._2014, Sertsrivanit_1984, Shcherbakov_Dvorov_1985, Shen_1993, Smirnov_etal._1974b, Smirnov_etal._1983b, Smith_Griffin_1977, Soinov_Veselov_1979, Sokolova_Duchkov_1993, Sugrobov_etal._1983a, Sugrobov_etal._1983b, Suleiman_1985, Takherist_1991, Talebi_etal._2014, Taylor_2017, Taylor_etal._2016, Taylor_Mather_2015, Thienprasert_etal._1978, Tsybulya_Zhuk_1985, Tuezov_etal._1986a, Tuezov_etal._1986b, Uyeda_etal._1958, Uyeda_etal._1964, Uyeda_etal._1978a, Uyeda_etal._1978b, Uyeda_etal._1980, Uyeda_Horai_1960, Uyeda_Horai_1963a, Uyeda_Horai_1963b, Veliciu_Demetrescu_1979, Verma_etal._1967, Verma_etal._1968b, Verma_Narain_1968, Verma_Rao_1965, Vermeesch_etal._2004, Verzhbitsky_etal._2007, Veselov_etal._1975a, Veselov_etal._1976a, Veselov_etal._1978a, Veselov_Kozlov_2014, Wang_etal._2001b, Watanabe_etal._1980, Weber_etal._2011, Whiteford_1992, Whiteford_1996, Whiteford_Graham_1994, Windisch_etal._1962, Xu_etal._2019, Zhang_etal._2020a, Zolotarev_etal._1979b, Zolotarev_Sochelnikov_1980, Zui_Zhuk_2006, Zuo_etal._2020,

5.2 Quality-assessed publications:

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6. Acknowledgements

This work continues a tradition of the International Heat Flow Commission (IHFC) to periodically publish releases of the Global Heat Flow Database (e.g., [Lee and Uyeda, 1965](#); [Simmons and Horai, 1968](#); [Jessop et al., 1976](#); [Pollack et al., 1993](#); [Gosnold and Panda, 2002](#); [IHFC, 2012](#); [Global Heat Flow Compilation Group, 2013](#); [Fuchs et al., 2021b](#); [Global Heat Flow Data Assessment Group et al., 2023](#)). We gratefully acknowledge the contributions of present and past members of the International Heat Flow Commission (IHFC; www.ihfc-iugg.org) and the broader international heat-flow community. We also acknowledge funding provided by the German Research Foundation (DFG), the International Lithosphere Program (ILP), the Project InnerSpace, The Helmholtz Centre Potsdam German Research Centre for Geosciences GFZ, respectively, as well as support of the International Geothermal Association (IGA).

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