The Global Heat Flow Database: Release 2021

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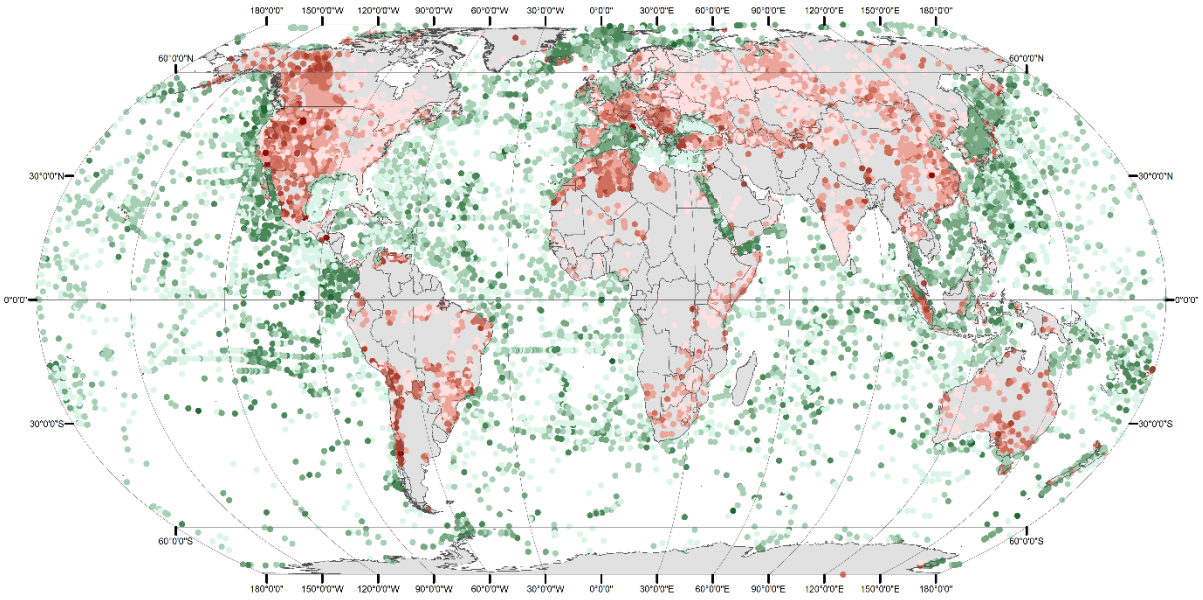

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1. License

2. Citation

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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 release 2021 contains data generated between 1939 and 2021 and constitutes an updated and extended version of the 2012 IHFC database release (IHFC 2012; later re-published as Pangaea release: Global Heat Flow Compilation Group, 2013). The new data release comprises new original heat-flow data published after 2012 as well as data from before 2012 which were not considered in the 2012 database release. Major contributions of non-IHFC data compiling publications are also included (e.g. Lucazeau, 2019). The 2021 release contains 74,548 heat-flow data from 1403 publications. 55% of the reported heat-flow values are from the continental domain (n ~ 40,870), while the remaining 45% are located in the oceanic domain (n ~ 33,678).

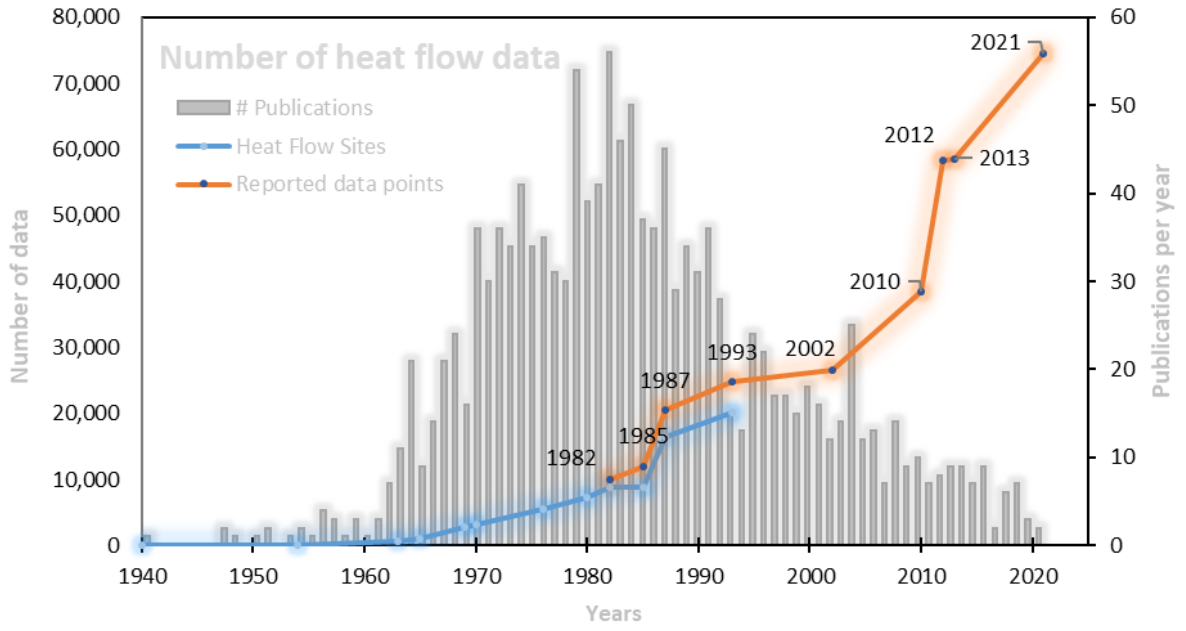

Figure 1: Number of heat flow data since 1939. Blue line: heat flow sites; red line: reported data points, grey bars: number of publications.

3.1. Data processing

Compared to earlier compilations, which followed the structure defined by Jessop et al. (1976), the new data release considers the recently redefined structure for reporting and storing heat flow data in the Global Heat Flow Database (e.g. Fuchs et al., 2021). Therefore, the notation and structure of the database was adopted, transforming the database field entries defined after Jessop et al. (1976) to a new field structure. Old code notations are not continued and we the dataset was cleaned for entries without reporting any heat-flow value.

The new database concept establishes some fundamental changes: it introduces 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 new structure also 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. A comprehensive description, including field desirability classifications and examples of associated data, is documented in Fuchs et al. (2021).

This release represents the transformation towards the new database structure. However, it marks an intermediate step and the majority of the newly defined database fields have not been filled yet. Filling these fields, checking the existing entries and assessing the quality of each entry are the aim of the upcoming *Global Heat Flow Data Assessment Project*, for which this data set provides the basis. Consequently, we kindly ask the user to take notice that this data compilation release still suffers similar problems as previously published compilations in terms of data heterogeneity, documentation and unclear quality

3.2. Heat flow Data

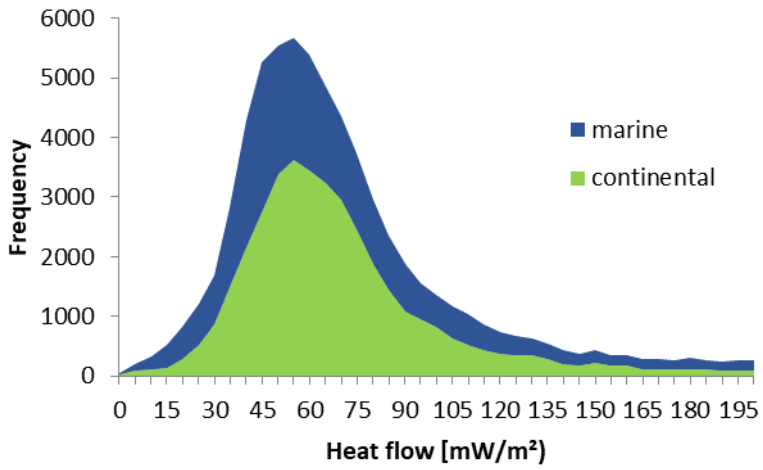

Figure 2: Stacked frequency of heat flow values.

4. File description

4.1. Description of data tables

File IHFC_2021_GHFDB.csv or IHFC_2021_GHFDB.xlsx contains:

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 number in Fuchs et al. (2021).

Column header	Unit	Short description	Level	Scheme	Class	Field
q	mW/m²	Terrestrial surface heat-flow (hf) value after all corrections for instrumental and environmental effects	P	BS	M	1
q_unc	mW/m²	Uncertainty standard deviation (SD) of q	P	BS	R	2
name	-	Name of the related hf site	P	BS	M	9
lat	°	N-S coordinate	P	BS	M	10
lng	°	E-W coordinate	P	BS	M	11
elevation	m	Height above or below mean sea level	P	BS	R	12
Ref_1	-	Literature reference	P	BS	M	14
q_acq	-	Year of hf data acquisition	P	BS	O	16
env	-	General geographical setting of site	P	BS	M	17
method	-	Digestion method for hf measurement	P	B	R	19
expl	-	Main purpose of original excavation	P	B	R	20
corr_HP_flag	-	Heat production considered for q?	P	BS	R	23
wat_temp	°C	Seafloor temperature	P	S	R	33
q_comment	-	Any further comments	P	BS	O	34
qc	mW/m²	Any kind of heat-flow value (qc)	C	BS	M	1
qc_unc	mW/m²	Uncertainty SD of qc	C	BS	R	2
q_method	-	Method of hf calculation	C	BS	M	3
q_top	m	Depth of top hf interval	C	BS	M	4
t_bot	m	Depth of bottom hf interval	C	B	M	5
hf_pen	m	Penetration depth of marine probe	C	S	R	6
hf_probe	m	Type of hf probe	C	S	R	7
hf_probeL	m	Length of hf probe	C	S	R	8
q_tf_mech	-	Specification of predominant heat transfer mechanism	C	BS	R	13
Ref_2	-	Supporting literature references	C	BS	O	15
qc_acq	-	Year of qc data acquisition	C	BS	O	16
childcomp	-	Child qc used for q calculation?	C	BS	M	18
corr_IS_flag	-	Conductivity under in-situ pT conditions?	C	BS	R	21
corr_T_flag	-	T data corrected?	C	BS	R	22
corr_S_flag	-	Sedimentation/subsidence effects corrected?	C	BS	R	24
corr_E_flag	-	Erosion effects corrected?	C	BS	R	25
corr_TOPO_flag	-	Topographic effects corrected?	C	BS	R	26
corr_PAL_flag	-	Transient climatic effects corrected?	C	BS	R	27
corr_CONV_flag	-	Convection effect corrected?	C	BS	R	28

corr_BWT_flag	-	Transient bottom-water temperature effects corrected?	C	S	R	29
corr_HR_flag	-	Refraction due to conductivity contrasts corrected?	C	BS	R	30
geo_lith	-	Dominant rock type for hf interval	C	BS	O	31
geo_strat	-	Stratigraphic age of hf interval	C	BS	O	32
T_grad_mean_meas	K/km	Measured T gradient	C	BS	M	35
T_grad_unc_meas	K/km	Uncertainty standard deviation of gradT	C	BS	R	36
T_grad_mean_cor	K/km	Corrected T gradient	C	BS	O	37
T_grad_unc_cor	K/km	Uncertainty SD of corrected gradT	C	BS	O	38
T_method_top	-	Method used for temperature determination at the top	C	B	M	39
T_method_bot	-	Method used for temperature determination at the bottom	C	B	M	40
T_shutin_top	hr	Time after end of drilling/end of mud circulation at the top	C	B	R	41
T_shutin_bot	hr	Time after end of drilling/end of mud circulation at the bottom	C	B	R	42
T_corr_top	-	Correction method applied at the top	C	B	R	43
T_corr_bot	-	Correction method applied at the bottom	C	B	R	44
T_number	-	Number of discrete temperature points	C	BS	R	45
T_tilt	-	Tilt of the marine hf probe	C	S	R	46
tc_mean	W/(mK)	Mean conductivity in vertical direction	C	BS	M	47
tc_unc	W/(mK)	Uncertainty SD of TC mean	C	BS	R	48
tc_source	-	Nature of the samples	C	BS	M	49
tc_method	-	Method used for TC determination	C	BS	R	50
tc_satur	-	Saturation state of the rock sample	C	BS	M	51
tc_pTcond	-	pT conditions of TC determination	C	BS	M	52
tc_pTfunc	-	Technique or approach used to consider pT conditions	C	BS	R	53
tc_numb	-	Number of discrete TC determinations	C	BS	R	54
tc_strategy	-	Strategy to estimate the TC over the vertical hf interval	C	BS	R	55
Ref_ISGN	-	International Geo Sample Numbers	C	BS	O	56

5. Change log

The database was cross-checked with that of the Global Heat Flow Compilation Group (2013), Lucazeau (2019) and with original publications, in order to identify misplaced or forgotten data. This process is not finished yet; and data from another ca. 250 publications are currently screened and expected to be added in future. Redundant data was cleaned up the database with automatic checking algorithms. Compared to the last IHFC database release from 2012 (58,302 HF data), 74,548 HF data from 1,403 publications have been considered for the present release. About 54 papers published since the last official release in 2012 have been considered for the present global heat flow data base release 2021 and the publication list is as follows:

Newly added publications:

Matthews_etal._2013, Shalev_etal._2013, Arnaiz-Rodriguez_Orihuela_2013, Rao_etal._2013, Rolandone_etal._2013, Shankar_Riedel_2013, Wang_Liu_2013, Xiao_etal._2013, Zuo_etal._2013, Liao_etal._2014, Cardoso_Hamza_2014, He_etal._2014, Jaupart_etal._2014, Li_etal._2014, Lucazeau_etal._2014, Majorowicz_etal._2014, Salmi_etal._2014, Harris_etal._2015, Li_etal._2015, Liu_etal._2015, Lucazeau_etal._2015, Peng_etal._2015, Ren_etal._2015, Schintgen_etal._2015, Maystrenko_etal._2015, Jiang_etal._2016, Batir_etal._2016, Beamish_Busby_2016, Hass_Harris_2016, Jiang_etal._2016a, Negulic_Louden_2016, ORegan_etal._2016, Rao_etal._2016, Zheng_etal._2016, Kolandaivelu_etal._2017, Mareschal_etal._2017, Schuetz_etal._2018, Jordan_etal._2018, Prol-Ledesma_etal._2018, Rysgaard_etal._2018, Zhang_etal._2018, LeGal_etal._2018, Balkan-Pazvantoglu_Erkan_2019, Dziadek_etal._2019, Oryan_etal._2019, Pollett_etal._2019b, Villinger_etal._2019, Wu_etal._2019, Pollett_etal._2019a, Poort_etal._2020, Rolandone_etal._2020, Reznik_Bartov_2021, Xu_etal._2021

6. Acknowledgements

This work continuous a tradition of the International Heat Flow Commission 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). We gratefully acknowledge the contributions of present and past members of the International Heat Flow Commission, in particular of the custodians and scientists in charge for the last releases, Alan Jessop, Henry Pollack and Will Gosnold. For his initiative in 2019 and his pleasant support where requested, we thank also Francis Lucazeau. We are grateful to Birgit Schöbel, Gwendolin Lüdtke, Alexej Dobrynin, Abdus Sattar and the entire team of the Telegrafenberg Library (namely Liane Dietel and colleagues) in Potsdam, Germany as well as the countless unknown colleagues from the international inter-library load system for their extensive support during the literature survey.

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