Icelandic Volcanoes – Help

General	2
Sign in	2
Upload Data	2
Manage Upload	3
Manage Profile	4
Map	4
Map navigation	4
Alerts	5
Additional information	5
About	5
Usage-citation	5
Monitoring	5
Links	5
Content window	5
Volcanoes	6
Data Portal	6
Eruption Search	7
Result window	7
Volcano Information	7
Data Results	7
Eruption Results	8
Parameter information	8
Export to excel	8
Description of material in the Catalogue	9
How to use the Catalogue	9
Finding the right volcanic system	9
Viewing information about a volcanic system10	0
Database search for individual eruptions12	2
Cartographic material14	4
Tephra grain size distribution1	5
Live activity status	6

General

This is a BETA version of the website!

Give us feedback	Please send us feedback by using the feedback button at the top of the page. This requires logging into Basecamp.

The website is divided into two main categories:

- **Data Portal** provides the option of searching and downloading volcanic research data.
- Catalogue of Icelandic Volcanoes provides general information about Icelandic volcanoes.

Sign in

Everything on the website is accessible without signing in, except uploading and downloading data from the *Data Portal*.

Sign in V Click on the "sign in" link in the upper right corner to sign into the website.

When signed in, more options become available:

If you do not have upload rights	If you have upload rights
	Sign out
Sign out	Upload Data
Manage Profile	Manage Upload
Request upload rights	Manage Profile
To get upload rights, click the "Request upload rights" link. After you have been approved for upload, the "Upload Data" and "Manage Upload" become available.	

The links "Manage Profile", "Upload Data" and "Manage Upload" open a separate "**Manager**" webpage.

Upload Data

To upload data, enter relevant information for your data and browse to the file to be uploaded.

Maximum upload size is 200 MB.

There are three "areas" of information:

- File
 - **Name** The name that appears in the search results.
 - File Opens a file browser, browse to the file you want to upload.
 - Category Select the category the data belongs to, if nothing fits select "Other" Category must be filled out in order to upload data.

- **Data level** The level of your data.
 - Level 0 raw or basic data
 - Level 1 data products coming from (nearly) automated procedures
 - Level 2 data produst resulting from scientific investigations
 - Level 3 integrated data producst resulting from complex analysis, or community shared (multidisciplinary) product
- **Event** Events are in fact predefined Time Periods and Location.
 - By selecting an Event the Time Period and Location are automatically populated. If either the Time Period or Location are changed after selecting the Event, the Event is "deselected".
- **Description** Description of the file, appears in the metadata form in the **Data Portal** search results.
- Instructions Any instructions regarding the file can be entered here, appears in the metadata form in the *Data Portal* search results.
- **Terms of use** If there are any terms of use those can be entered here, appears in the metadata form in the **Data Portal** search results.
- **Access restrictions** if chosen to lock the file, the file appears in search, but can not be downloaded for two years from the end of the given time period.
- Keywords
 - Enter any keywords, separated by a comma, describing the data.
 - Keywords can be used to search for the data in the **Data Portal** search.
- Location
 - *Location type* Point or Polygon.
 - If Point is chosen, click on the map to select the location If Polygon is chosen, click on the "Draw polygon" button on the map and then drag the polygon you want.
 - Longitude/Latitude click on the map to pick up the coordinates.
 Map navigation:
 - Pan Click on map and drag to pan.
 - Zoom Zoom by scrolling, using +/- buttons or hold shift down while drawing a rectangle.

	When ready, click the submit button to upload the file.
submit	Portal.

Manage Upload

An overview of all uploads made by the person that is signed in, can be found on the *Manage Upload* tab.

Short name	File name	
SamsynTest	futurevolc_logo_plain.jpg	



Manage Profile

Under Manage Profile it is possible to see and change your account information as well as change the password.

Мар

КАТ	By clicking on an icon for a volcano, information for that specific volcano is displayed in a popup window.
Overview map	Displays an image of Iceland with locations of volcanoes marked with triangles. The image can be moved by clicking on it and dragging it to another position.
	Opens a checkbox list of various layers that can be turned on/off.
Layers	This includes the current location of measurements stations and location of earthquakes within the last 48 hours.
	When searching the dataportal and downloading data, bear in mind that the shown location of measurement instruments is the current location and not neccessary the location of the instrument at the given search period.
Legend	Displays a legend for maplayers if any maplayers have been turned on, either from the "Layers" button on the map, or from the maplayers chapter for a specific volcano in the catalogue.
	The legend window can be moved by clicking on it and dragging it to another position.

Map navigation

Zoom

	Zooms to the original extent.
+	Zooms one level in.
-	Zooms one level out.
Scroll	Zoom in/out by using the scroll on the mouse.
Shift	Hold the shift button down while drawing a rectangle to zoom in.

Pan

Click on the map and drag it in order to pan the map.

Alerts

The alerts that appear on the website are the same as the alerts on the Icelandic Meterologic Office official website.



The number in the black circle indicates the number of alerts.

Click on the alert button to view the alerts.

Additional information

The *"Additional information"* dropdown list in the upper right corner contains links to various additional information.



Those links open a separate "Additional Information" webpage.

About

Information about the **Catalogue** and the **Data Portal** are found here.

Usage-citation

Information on how to reference the **Catalogue** are found here.

Monitoring

Under development.

Links

Under development.

Content window

The window on the left hand side serves as a content window for the website. It contains 3 tabs:

- Volcanoes
- Data Portal
- Eruption Search

Hide

Hides the content window.

Show

Volcanoes

The *Volcanoes* tab contains a list of Icelandic volcanoes. The list can be sorted by the following criteria:

- Aviation Color Code
- Activity level
- Alphabet
- Last eruption

	 Shows the volcanoes as a cluttered list with only pictures and volcano names. Click on the photo of a volcano to pan to the volcano and get access to further information.
	 Shows the volcanoes as a detailed list with links to more information. Click on the title of a volcano to pan to the volcano and get access to further information. Click on a volcano photo to display more photos of the specific volcano.
Catalogue information 👂	Opens catalogue information for the specific volcano in the result window.
Activity status 📀	Links to the activity status in the catalogue in the result window.
Photos 👂	Displays more photos of the volcano.

Data Portal

The *Data Portal* tab is the "window" for searching and downloading data.

The following search parameters are optional:

- **Event** Defines the geographical extent and time period for a specific event. If either the location or time period is changed after selecting an event, the event is "deselected".
- Location Click on the button and draw the extent on the map and the relevant coordinates are entered into North/South/East/West fields.
 If no location is specified the search is for the whole country.
 Bear in mind if searching for specific data and the location of the measurement instruments is not known, it is better to specify no location.
- **Time Period** Enter the time limits here fo a search here. The maximum Time Period for a search is one year.
- **Category** the types of data available is listed here. Check the relevant boxes.

• **Keywords** – if the category "Upload" is checked, additional search parameters can be entered.

When data is uploaded the author can put in keywords for the data that can be used to find the data in the search.

Search	Opens the search results for the given parameters in the " <i>Data Portal Search</i> " tab in the result window.
Clear	Clears the search form.

Eruption Search

The *"Eruption Search"* tab provides the option of searching the **Catalogue** for eruptions giving various search parameters.

Search	Opens the search results for the given parameters in the <i>"Eruption Search"</i> tab in the result window.
Clear	Clears the search form.

Result window

Results from searches, both *Data Portal* and *Eruption Search*, are displayed in a popup window on the right hand side of the webpage.

N	Hides/shows the result window.
	Enlarges/reducts the result window
8	Closes the result window.

Volcano Information

The *Volcano Information* is divided into five chapters/areas. To open/close a chapter, click on the blue titlebar.

The chapter *"Map Layers"* contains various layers that can be displayed on the map. Click on the layer on the map to get further information about the specific layer.

Data Results

M	Click on the metadata icon to get further information about the dataset.

The metadata information include the following:

• **Description** – a description of the dataset in question.

- **Instructions** if there are any instructions on how to interpret the data they can be found here.
- **Terms of use** if there are any restrictions on how to use the dataset, information is given here.
- **Owner** lists the owner of the dataset in question.
- **Contact info** an email or other contact information if further information is required about the dataset.

Eruption Results

Parameter information

Click on the eruption in the result list to get further information about the specific eruption.

The parameter values are displayed in a separate table that can be exported to excel by using the export button at the bottom of the window.

Export to excel

Export table into Excel	Exports the results of the eruption search to excel.
Export table into Excer	All parameters for all eruptions in the result window are included.

Description of material in the Catalogue

Each of the volcanic systems (total of 32) is represented by an icon on the CIV website (Figure 1). Behind each icon is a detailed chapter describing the characteristics of the given volcanic system. Each chapter includes detailed information on:

- The geology and structure of the volcanic system
- The eruption history, pattern and products
- The known precursory signals and current monitoring level
- Associated hazards
- Detailed descriptions of possible eruption scenarios based on eruption history of the last 1100 years (post-settlement, good eruption record). The eruption scenarios are defined as Small, Moderate and Large based on the volume of erupted material. The Largest known eruption for each volcanic system is also described in as much detail as the state of knowledge allows, and is not confined to a specific time limit.

Eruption source parameters for individual eruptions can be accessed and downloaded via a database search (see more in section *Database search for individual eruptions*).

The chapters are illustrated with

- Interactive maps of tephra dispersion. These include the maximum range of tephra dispersal for the volcanic system, and isopach maps for individual eruptions. Eruption isopach maps are accompanied by grain size distribution where such information exists (see more in section Cartographic material).
- Maps of lava flows with detailed information (see more in section *Cartographic material*)
- Number of photographs (see more in section *Viewing information about a volcanic system*)

The colour of the volcano icons represents the current aviation colour code for that volcanic system (Green, Yellow, Amber, Red or Grey). <u>Click here</u> for information on aviation colour coding. The aviation colour code is live and will be updated when a change is made by IMO. Similarly, the red icon in the bottom right of the screen will display text alerts about volcanic activity if such are released by IMO.

CIV also includes a new online tool to help the users assess the activity level of each volcanic system (**Activity status** accessible through each volcano's icon). The tool accesses the seismicity database of the <u>Icelandic Meteorological Office</u> and compares the current level of seismic activity in a volcanic system with the background level. For example, the number of earthquakes occurring today in Katla can be compared with an average daily value since 1991 (see more in section *Live activity status*).

How to use the Catalogue

Finding the right volcanic system

The 32 volcanic systems can be searched and sorted according to their activity level, aviation colour code, most recent eruption year, or simply alphabetically using the **Sort by** drop-down menu on the **Volcanoes** list on left hand side (Figure 1). The **Volcanoes** list can be hidden using **Hide** at the top.



Figure 1. Each of the volcanic systems is represented by an icon both on the left hand side list, and on the map view. Volcanic systems can be searched using **Sort by** according to various parameters, such as last eruption year and activity level.

Viewing information about a volcanic system

A volcanic system can be selected either from the **Volcanoes** list on the left hand side, or by clicking on its icon in the map view. A more detailed menu then appears on the right hand side (**Volcano information**). **Short description** provides a quick overview of the characteristics of the volcanic system. Table-view information is found under **Central Volcano** and **Fissure Swarm**. Much more comprehensive information follows in detailed sublayers numbered 1-14 (Figure 2). **Volcano information** menu can be minimized or hidden using the arrow or the cross above it.

Photographs of each volcanic system can be viewed by either selecting **Photos** on that volcano's icon, or by clicking on the icon's thumbnail image.

Give us feedback FUTUREVOLC Catalogue of Icelandic Volcanoes	Kelandic Met Office UNIVERSITY OF ICELAND Institute of EARth Sciences Sign in Additional information >
Volcanoes Data Portal Eruption Search Hide Layers Overview map Legend	
Sort by: Aviation colour code - II - Akuret	ABOUT VOLCANO INFORMATION ERUPTION RESULTS
Askja Aviation colour code: Green Activity level: Moderate Last eruption: 1961 CE Catalogue information @ Activity status •	Katla About the Catalogue Alternative name: Mýrdalsjökull Enlarge text window Gudrún Larsen and Magnús T. Gudmundsson (Institute of Earth Sciences - Nordvulk, University of Iceland) Last Updated: March 7 2016
BRE Brennisteinsfjöll Aviation colour code: Green Activity level: Noderate Last eruption: Late 10th century CE Catalogue information @ Activity status @	Short Description ~ © Central Volcano ~ Fissure swarm ~
BAR Bárðarbunga Aviation colour code: Green Activity level: High Last eruption: 2014 CE Catalogue information @ Activity status @	Detailed Description ^ 1. Geological setting and tectonic context ~ 2. Morphology and topography ~ 3. Plumbing system and subsurface structure ~ 4. English history and nattern ~
ELD Eldey Aviation colour code: Green Activity level: Low Last eruption: 1926 CE Cativity status O	5. Characteristics during non-eruptive periods 6. Precursory signals 7. Erupted material & Grain size distribution 8. Volcanic hazards 9. Activity status and monitoring
ESJ	10. Possible eruption scenarios - based on last 1100 years 11. Largest known eruption 12. Extent of knowledge and bibliography 13. Selected references 14. Selected figures
Eyjafjallajökull Aviation colour code: Green Activity level : Moderate	Map layers
SAMSÝN MIRACLE Commenter	ðurstofa Íslands © 2014 Landmælingar Íslands © 2014 Iceland GeoSurvey © 2015 Version 0.4

Figure 2. Comprehensive information about each volcanic system (here: Katla volcanic system) can be accessed by selecting the **Volcano information** sublayers

Eruption types and erupted volumes have been statistically analysed for volcanic systems where data are of sufficient quality. The statistical analysis is visually displayed by graphs (Figure 3) under **Selected figures** and also within the sublayers where they are referenced, e.g. under **4. Eruption history and pattern**.



Figure 3. Statistical analysis for types of activity is shown graphically for the volcanic systems which are sufficiently well known.

Database search for individual eruptions

Eruption source parameters for individual eruptions can be accessed using **Eruption Search** from the left hand menu. Variety of search parameters can be selected, as shown on the left in Figure 4 (top image). Summary results appear on the right under **Eruption results**, and more detailed info can be accessed by clicking on individual eruptions (Figure 4, bottom image). The search results are downloadable (**Export table into Excel**).

Currently the **Eruption Search** database holds information for the following volcanic systems and eruption periods:

Katla (KAT): Historical eruptions (since ~870 CE) Hekla (HEK): Historical eruptions and large prehistoric explosive eruptions Grímsvötn (GRV): Eruptions since 1800 CE Bárðarbunga (BAR): Historical eruptions

CIV will continue to be populated with information in its following editions.

olcanoes Dat	a Portal	Eruption Search	Hide Layers Overview map	Legend	Hur	N.	×.	Y)	1	0	
104			Q naflói + A	Akurevii	ABOUT	VOLCANO	DINFORMATIO	DN ER	RUPTION RES	ULTS	
Volcanic system	Katla (KAT)		ELAN	J.J. N	Click on e	eruption to	get more i	nformatio	Column	Tenhra	
Eruption scenario	Select	~		- 726-1	Volcano name	Eruption Location	Start date	End date	max height (km)	volume uncomp (km ³)	Volum lava (km³)
Eruption location	Select	·		1	Katla (KAT)	Fissure swarm, Central	934			4.5 - 6.5	19 - 19
Central volcano type	Select	~		DF	Katla (KAT)	Central volcano	920			0.27 - 0.38	0 - 0
External water	Select	× 1	PRE	a la fair	Katla (KAT)	Central volcano	July 9 2011	2011	0	0 - 0	0-0
Eruption type	Select	*	Very .		Katla (KAT)	Central volcano	July 17 1999	1999	0	0 - 0	0-0
Eruption year	from	to	2005	: C .	(KAT) Katla	volcano	1955 October 12	1955 November	0	0-0	0-0
agnitude expl. phase	from	to	HRO GRN HEK	1 PV	(KAT) Katla	volcano Central	1918	4 1918 May 27	14	0.7 - 0.7	0-0
			Caelloso Int	XE	(KAT) Katla	volcano Central	June 26	1860 July 23		0.01-0.1	0-0
lagma Composition	Select	~		S Skickjuk	(KAT) Katla	Central	1823 October 17	1823 February		0.8 - 1.5	0-0
mn max height (km)	from	to		KI	Katla (KAT)	Central	May 11 1721	1721		0.33 - 0.5	0-0
Max VEI from	Select	~	stmannaeyjar	JV	Katla (KAT)	Central	November 3 1660	1661		0.26 - 0.31	0-0
			· Vik		Katla (KAT)	Central	September 2 1625	September 14 1625		0.5 - 0.7	0-0
Max VEI to	Select	×		and a	Katla (KAT)	Central volcano	October 12 1612			0.04 - 0.05	0-0
ephra volume (km³)	from	to			Katla (KAT)	Central volcano	August 11 1580			0.01 - 0.1	0-0
Pyroclastic Flows					Katla (KAT)	Central	1500			0.5 - 0.7	0-0
MSYN MIRACLE	alogue	Clear Search	Give us feedback c Volcanoes	Veðu	rstofa Island	s © 2014 Lar	ndmælingar elandic Met	Islands © 20:	14 Iceland 0 VERSITY OF I ITUTE OF EARTH SC Sign i	ieoSurvey©20 CELAND IENCES RIKILO n ✓ Addition	015 Vers
MSÝN MIRACLE	alogue ta Portal	Clear Search	Give us feedback C Volcanoes	Veðu	rstofa Island High	s © 2014 Lar to	ndmælingar slandic Met	Islands © 202	14 Iceland C VERSITY OF IN ITUTE OF EARTH SC Sign i	GeoSurvey © 20 CELAND HAKISS n → Addition	015 Vers Karatusty al informa
MSYN MIRACLE	alogue	Clear Search Clear Search Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Colo	Give us feedback c Volcanoes	Veðu Legend	rstofa Island Hui TEY ABOUT	s © 2014 Lar	ndmælingar elandic Met	Islands © 20. UNI INST NON EF	14 Iceland C VERSITY OF IA TUTE OF FARING Sign i RUPTION RES	CELAND INACES IN Addition OLTS	D15 Vers GERGLUSTIC al informa
MSÝN MIRACLE	alogue ta Portal Katla (KAT)	Clear Search Clear Search Color Co	Give us feedback C Volcanoes	Legend	Harter ABOUT Click on e	s © 2014 Lar for volcani volcani	ndmælingar standic Met fite	Islands © 20 Werr ON ER	14 Iceland C VERSITY OF II TUTE OF EARTH SO Sign i RUPTION RES	GeoSurvey © 20 CELAND HIKRUS Addition VLTS	015 Vers GREGLESTIG al informa
MSYN MIRACLE Cate UREVOLC Cate olcanoes Dat Volcanic system Eruption scenario	Alogue ta Portal Katla (KAT) Select	Clear Search Clear Search Color Col	Give us feedback C Volcanoes Hide Layes Overview map Value Katla (KAT) KAT_934 Largest knowm Fissure swarm, Central volcano	Legend	rstofa Island Hur Tev ABOUT Click on e Volcano name	s © 2014 Lar to contact of the second sec	admælingar dandic Met get more i Start date	Islands © 20 UNIT NOT End date	14 Iceland C VERSITY OF In TUTE OF LARH SC Sign i RUPTION RES DN Column max height (km)	ieoSurvey © 20 CELAND MINCS XIERLO IN Addition Tephra Volume ULTS	015 Vers Karrottstyr Ial informa
Volcanic system Eruption location	alogue ta Portal Katla (KAT) Select	Clear Search Solow So	Give us feedback C Volcanoes Hide Layers Overview map Value Kata (KAT) KAT_934 Larget known Fissure swarm, Central volcano	Legend	Highter Tery ABOUT Click on e Volcano name Katia (KAT)	s © 2014 Lar for log volcani volcani cruption to Eruption Location Fissure Swarral	ndmælingar slandic Met b INFORMATI- get more i Start date 934	Islands © 20 UNIT ON ER Informatio End date	14 Iceland (VERSITY OF IA TIVE OF LARKES Sign i RUPTION RES ON Column Maght Height (km)	CELAND INNESS IN	015 Vers
VSYN MIRACLE Cate Cate Decanoes Dat Volcanic system Eruption scenario Eruption location Central volcano type	Alogue ta Portal Katla (KAT) Select Select	Clear Search Soft Soft Cellandia Control Cellandia	Give us feedback C Volcanoes Hide Layes Overview map Value Kata (KAT) KAT 934 Largest known Fissure swarm, Central volcano	Legend	rstofa Island Hu Try ABOUT Click on e Volcano name Katla (KAT) Katla	volcana Volcana Fissure swarma Central Volcana Central	ndmælingar slandic Met Stant date 934 920	Islands © 20 UNIT ON ER Informatio	14 Iceland C VERSITY OF IA TUTE OF LARENS Sign i RUPTION RES ON Column height (km)	CELAND INNESS Addition V Addition VULIS Tephra volume (km ²) 4.5-6.5 0.27-0.38	D15 Vers La information Lava (km ³ 19-1)
MSYN MIRACLE Cat. Dicanoes Dat Volcanic system Eruption scenario Eruption location Central volcano type External water	Alogue RaPortal Katla (KAT) Select Select Select	Clear Search Soft Soft Icelandia afficidus Eruption Search Parameter Volcano name Eruption Search Eruption Search Eruption Search Eruption Cocation Central Volcano Type Central Volcano Suttaj Central Volcano Central Volcano Suttaj Central Volcano Suttaj Central Volcano Suttaj Central Volcano Suttaj Central Volcano Suttaj Central Volcano Central Volcano Suttaj Central Volcano Central Volcano Central Volcano Cent	Give us feedback C Volcanoes Hide Layes Overview map Value Kata (KAT) KAT_934 Largest knowm Fissure swarm, Central volcano	Legend	ABOUT Click on e Volcano name Katla (KAT) Katla (KAT)	volcano Fissure swarn ceruption to Eruption Coation Central volcano Central	Indmælingar Islandic Met get more i Start date 934 920 July 9 2011	Islands © 20 WINT INFORMATION End date 2011	14 Iceland C VERSITY OF IA Sign i RUPTION RES ON Column mag heigh (km)	CELAND INNESS ACTION N Addition N A A A A A A A A A A A A A A A A A A A	Volum 19-15 Volum 19-15 0-0 0-0
VSYN MIRACLE	Alogue ta Portal Katla (KAT) Select Select Select Select	Clear Search Clear Search Control Control Control Control Control Control C	Give us feedback C Volcanoes Hide Layes Overview map Kata (KAT) KAT 934 Largest Norom Fissure swarm, Central volcano	Legend	ABOUT Click on s Katla (KAT) Katla (KAT) Katla (KAT) Katla	S 2014 Lar Cartal VOLCANN VOLCANN VOLCANN VOLCANN Fissure Searcal VOLCANN Central	standic Met diffee diff	Islands © 20 WINT INFORMATION End date 2011 1999	14 Iceland C VERSITY OF IA Sign i RUPTION RES ON Column mag height height (km) 0	EeoSurvey © 20 сесано имста имста исстано исстано исстано (кт) 4.5-6.5 0.27-0.38 0-0 0-0	015 Vers Image: State Stat
VSYN MIRACLE	katla (KAT) Select Select Select	Clear Search Clear Search Clear Search Control Co	Give us feedback C VOICANOES Hide Layes Overview map Kat gas Kat gas Lagest known Fissure swarm, Central volcano	Legend	ABOUT Click on c Volcano name Katla (KAT) Katla (KAT) Katla (KAT)	Contral Contral Contral	sidmælingar slandic Met fitte D INFORMATI- get more I Start date 934 920 July 9 2011 July 17 1999 June 25	Islands © 20 WRIT INFORMATIO End date 2011 1999 1955	14 Iceland C VERSITY OF IA Sign i RUPTION RES ON Column height (km) 0 0	CELAND INNESS IN	Volum lava (km ³ 19-15
NSÝN MIRACLE Cate Cate Dicanoes Dat Volcanic system Eruption scenario Eruption location Central volcano type External water Eruption type Eruption ype	Remean alogue ta Portal Katla (KAT) Select Select Select Select from	Clear Search Clear Search Clear Joint Control C	Give us feedback C Volcanoes	Legend	Hid TEY ABOUT Click on e Katla (KAT) Katla (KAT) Katla (KAT) Katla (KAT) Katla (KAT)	CO14 Lar Control Lar Control Lar Control Lar VOLCANN VOLCANN VOLCANN VOLCANN Control Contro Control Control Control Contro Control Co	admælingar standic Met standic Met b INFORMATH get more i Start date 934 920 July 9 2011 July 17 1999 June 25 1955 0 october 12 1918	Islands © 20. WINT WIN	14 Iceland C VERSITY OF IA Sign i RUPTION RES ON Column height (km) 0 0 0	CELAND INNES XIENED → Addition ULTS Tephra uncomp (km ²) 4.5 - 6.5 0.27 - 0.38 0 - 0 0 -	215 Vers 211 Vers 212 Vers 213 Vers 214 Vers 215 Vers 216 Vers 217 Vers 217 Vers 217 Vers 217 Vers
NSYN MIRACLE	Alogue a constant of the second of the secon	Clear Search Clear Search Clear Search Control	Give us feedback C Volcanoes Hide Layers Overview map Value Kata (KAT) KAT_934 Largest Known Fissure swarm, Central volcano Eldgiá fissure Groundwater, Glacier Mixed Phreatomagmatic, Magmatic Days to weeks 934	Leged	Harter ABOUT Click on e Volcano name Katia (KAT) Katia (KAT) Katia (KAT) Katia (KAT) Katia (KAT) Katia	volcano Central volcano Central volcano Central volcano Central volcano Central volcano Central volcano Central volcano Central volcano Central volcano Central volcano Central volcano	admælingar slandic Met get more i Start date 934 920 July 9 2011 July 17 1999 June 25 1955 October 12 1918 May 8 1860	Islands © 20 UNIT NON ER Information End date 2011 1999 1955 November 41918 May 270 1955	VERSITY OF IA NUMERSITY OF IA Sign i RUPTION RES ON Column height (km) 0 0 0 14	CELAND IMAGS XIENED	D15 Vers EXECUTIVE EXECUTIVE Image: Information of the second
ASYN MIRACLE	Alogue Control	Clear Search		Legend	Harter ABOUT Click on e Volcano name Katla (KAT) Katla (KAT) Katla (KAT) Katla (KAT) Katla (KAT) Katla (KAT) Katla (KAT)	volcano Central Volcano Central Centra	admælingar slandic Met fice D INFORMATI get more Start date 934 920 June 25 1955 October 12 1999 June 25 1955 October 12 1993	Islands © 20. UNIT RET DON ER Informatio End date 2011 1999 1955 November 41918 May 27 1955 November 41918	VERSITY OF IA NUTURE OF EACH SC Sign i RUPTION RES ON Column max height (km) 0 0 0 14	CELAND INNES XAddition ✓ Addition UUTS	0115 Verso 015 Verso
ASYN MIRACLE	Alogue Control	Clear Search			Harter ABOUT Click on e Volcano name Katla (KAT) Katla (KAT) Katla (KAT) Katla (KAT) Katla (KAT) Katla (KAT) Katla (KAT)	volcano Central volcano Central volcano Central volcano Central volcano Central volcano Central volcano Central volcano Central volcano Central volcano	admælingar alandic Met fice D INFORMATH get more i Start date 934 920 June 25 1955 October 12 1918 May 8 1860 June 26 1923 October 17 1755	Islands © 20 UNI KETT ON EF Informatio End date 2011 1999 1955 November 41918 May 27 1955 November 41918 May 27 1955 November 41918 May 27 1917 Solutione	VERSITY OF IA TUPE OF EARTH SC Sign I RUPTION RES ON Column max height (km) 0 0 0 14	CELAND INNES INN	0115 Vers 015
MSYN MIRACLE	Alogue of the second of the se	Clear Search Soft Soft Clear Search Soft Ceruption Search Ceruption Search Eruption Search Eruption Search Eruption Search Eruption Location Central Volcano Netral Volcano Central Volcano Subtype Area of Activity External Water Eruption Type Explosive Eruption Type Explosive Eruption Type Explosive Eruption Type Event start year Event start year Event start year Event start month Event start ime Event end year		Legend	ABOUT Click on e Volcano name Katla (KAT) KAT) Katla (KAT) KAT) KAT) KAT) KAT) KAT) KAT) KAT)	volcano Central volcano Central volcano Central volcano Central volcano Central volcano Central volcano Central volcano	admælingar adandic Met adandic Met adandi	Islands © 20 UNIT INFORMATION	14 Iceland C VERSITY OF IA TITLE OF LARMS S Sign i RUPTION RES ON Column max height (km) 0 0 0 14	CELAND RHCG X RHCG X Addition ULUS ULUS ULUS ULUS ULUS ULUS ULUS ULU	Volume 19-15 Vers Volume Image: Comparison of the second of the secon
MSYN MIRACLE	Alogue of the second of the se	Clear Search Soft Soft Clear Search Soft Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Cont	Give us feedback C Volcanoes		ABOUT Click on o Volcano name Katla (KAT) KAT) Katla (KAT) KAT) KAT) KAT) KAT) KAT) KAT) KAT)	2014 Lar Control Contro Control Control Control Control Control C	International Start Star	Islands © 20 UNIT SET INFORMATION End date 2011 1999 1955 November 4 1918 November 4 1918 1960 3 July 23 February 1975 1721 1861	14 Iceland C VERSITY OF IA TIVE OF EARNING Sign i RUPTION RES ON Column max height height height o 0 0 0 14	EELAND INNES INN	2015 Vers Construction Volumentary (km) 19-15 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-
MSYN MIRACLE	Alogue of the second of the se	Clear Search Clear Search Clear Joint Control Cont	Give us feedback C Volcanoes		ABOUT Click on c Volcano name Katla (KAT) KAT) Katla (KAT) KAT) KAT) KAT) KAT) KAT) KAT) KAT)	Control Lar Control L	sidmælingar sindic Met ditte D INFORMATIO get more i Start date 934 920 July 92011 July 17 1999 934 920 July 92011 July 17 1999 1955 Ctober 12 May 8 1860 June 25 1823 October 12 May 8 1860 June 25 1823 October 12 November 3 1660 September 2 1625	Estands © 20.	14 Iceland C VERSITY OF IA Sign i RUPTION RES ON Column max height height (km) 0 0 0 14	CELAND INNES	Volum Image: Second
MSYN MIRACLE	Alogue a alogue a katla (KAT) Select Select from from from from Select from Select from Select	Clear Search Clear Search Clear Search Control Contro	Give us feedback C Volcanoes		ABOUT Click on e Volcano name Katla (KAT) KAT) KAT) KAT) KAT) KAT) KAT) KAT)	Control Central Volcano Central Centr	sidmælingar slandic Met fice D INFORMATIO get more i Start date 934 920 July 92011 July 17 1955 1955 1955 1956 1920 July 92011 July 17 1955 195	Estands © 20.	14 Iceland C VERSITY OF IA Sign i RUPTION RES ON Column max height (km) 0 0 0 14	CELAND INNESS IN	Old Old 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0 0-0
MSYN MIRACLE DIREVOLC Call Olcanoes Dat Volcanic system Eruption scenario Eruption scenario Eruption location Central volcano type External water Eruption type Eruption type Eruption ypear Magmitude expl. phase Magma Composition lumn max height (km) Max VEI from Max VEI to Tephra volume (km ³)	Alogue a ra Portal katla (KAT) Select Select Select from form form Select from Select from Select	Clear Search Clear Search Clear Search Clear Search Control Control Control Control Control Control Control Volcano name Eruption Search Eruption Search Eruption Search Eruption Search Central Volcano Central Volcano Central Volcano Central Volcano Central Volcano Central Volcano Central Volcano Central Volcano Subtype Area of Activity Exelosive Eruption Type Explosive Eruption Type Event start year Event start day Event start day Event start day Event start day Event end year Event end month Event end day Previous repose Event dating Event dating Event dating mathematical Event dating mathematical	Give us feedback C Volcanoes	Legend	ABOUT Click on c Volcano name Katla (KAT) Katla	Control Central Volcano Central Central Volcano Central Volcano Central Volcano Central Volcano Central C	standic Met 4	Islands © 20. WIN: Maximum Informatio End date 2011 1999 1955 November 4 1918 1823 1823 1823 1823 1823 1999 1955 November 4 1918 1823 1823 1823 1924 1925	14 Iceland C VERSITY OF IA Sign i RUPTION RES ON Column height (km) 0 0 0 14	CELAND INFOS	Volume Image: Second
MSYN MIRACUS URE VOLC OLCANOES DICANOES DICANOES VOLCANIC SYSTEM Eruption Scenario Eruption Scenario Eruption Iocation Central volcano type External water Eruption year Augmitude expl. phase Magma Composition umn max height (km) Max VEI from Max VEI from Max VEI to Tephra volume (km ³) Pyroclastic Flows	Alogue a construction of the second of the s	Clear Search	Give us feedback C Volcanoes Hide Layers Overview map Value Kata (KAT) KAT_934 Largest known Fissure swarm, Central volcano Edgija fissure Groundwater, Glacier Hited Phreatomagmatic, Magmatic Days to weeks 934 2 Unknown Unknown Unknown Unknown Unknown Unknown Unknown 16 Ice Core Good 5,61	Vedu	ABOUT Click on e Volcano name Katia (KAT) Katia (KAT) Katia (KAT) Katia (KAT) Katia (KAT) Katia (KAT) Katia (KAT) Katia (KAT) Katia (KAT) Katia (KAT) Katia (KAT) Katia (KAT)	Contral Volcann Central Volcann C	sidmælingar slandic Met get more i Start date 934 920 July 9 2011 July 17 1999 June 25 1985 October 12 1988 May 8 1860 June 26 1982 June 25 1983 October 12 1983 May 11 1975 May 11 1975 May 11 1975 June 25 1983 October 12 1985 May 11 1975 June 26 1983 October 12 1985 May 11 1985 June 26 1985 June 26 1985	Islands © 20 UNIX INFORMATION End date 2011 1999 1955 November 41918 May 27 1955 November 41918 May 27 1955 November 41918 May 27 1975 1975 19721 1961 September 14 1625	VERSITY OF IA NUMERSITY OF IA Sign i RUPTION RES ON Column max height (km) 0 0 0 14	CELAND INNES XEXILO X Addition V Tephra volume volume (km ²) 4.5-6.5 0.27-0.38 0-0 0-0 0.7-0.7 0.01-0.1 0.8-1.5 0.26-0.31 0.5-0.7 0.01-0.1 0.5-0.7 0.01-0.1 0.5-0.7 0.01-0.1 0.5-0.7 0.5-0.7	Volume 2 Volume 2 19-19 0-0

Figure 4. Searching in the database for individual eruptions (Eruption Search)

Cartographic material

Map layers contain a huge amount of cartographic material. There are maps of volcanic systems, including e.g. Holocene lava flows, eruptive fissures, craters and calderas (Figure 5, top image), and maps of tephra dispersal from various eruptions (Figure 5, bottom image). Note that Figure 5 show only a snapshot of the available maps. Each map item (e.g. individual lava flows, eruptive fissures, crater outlines) can be queried for metadata by clicking on them. Zoom in and out to get the best view of the map contents.



Figure 5. Examples of cartographic material available in CIV. Map items can be queried for metadata by clicking on them. Top image shows tephra dispersal map (isopach map) for Katla eruption in ~1500 CE. Figure 5a. Bottom image shows Katla lava flows, eruptive fissures, outlines of caldera, central volcano and fissure swarm

Tephra grain size distribution

Information on tephra grain size for a number of explosive eruptions can be accessed through **the Map layers**. This is done by selected the eruption of interest, for example **Katla SILK-LN** under **Katla**, **tephra grain size distribution** as shown on Figure 6. The tephra sampling locations will be shown on the map as yellow triangles. More detailed information about each sampling location and its grain size distribution can be accessed by clicking on the yellow triangles. Grain size distribution can also be displayed as a graph by clicking on **Grain size distribution graph**.



Figure 6. Tephra grain size distribution can be viewed for a number of explosive eruptions

Live activity status

Activity status is a live webtool designed to help assess and understand the current level of activity in different volcanic systems (Figure 7). It is accessed through the icon of each volcanic system. The recent number of seismic events ('recent' being one day, one week, one month or one year) is compared with the 'background' average value. The seismic data used by this webtool is accessed from the IMO database.



Figure 7. Activity status is a live tool which helps assess the current level of seismicity in a given volcanic system. The red bar is the recent number of earthquakes (one day, one week, one month or one year) and the blue bar is the 'background' average number of earthquakes