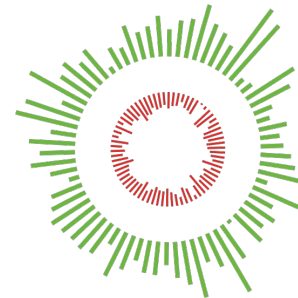


# Introduction to CKAN



OPEN KNOWLEDGE  
INTERNATIONAL

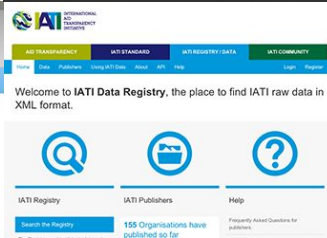
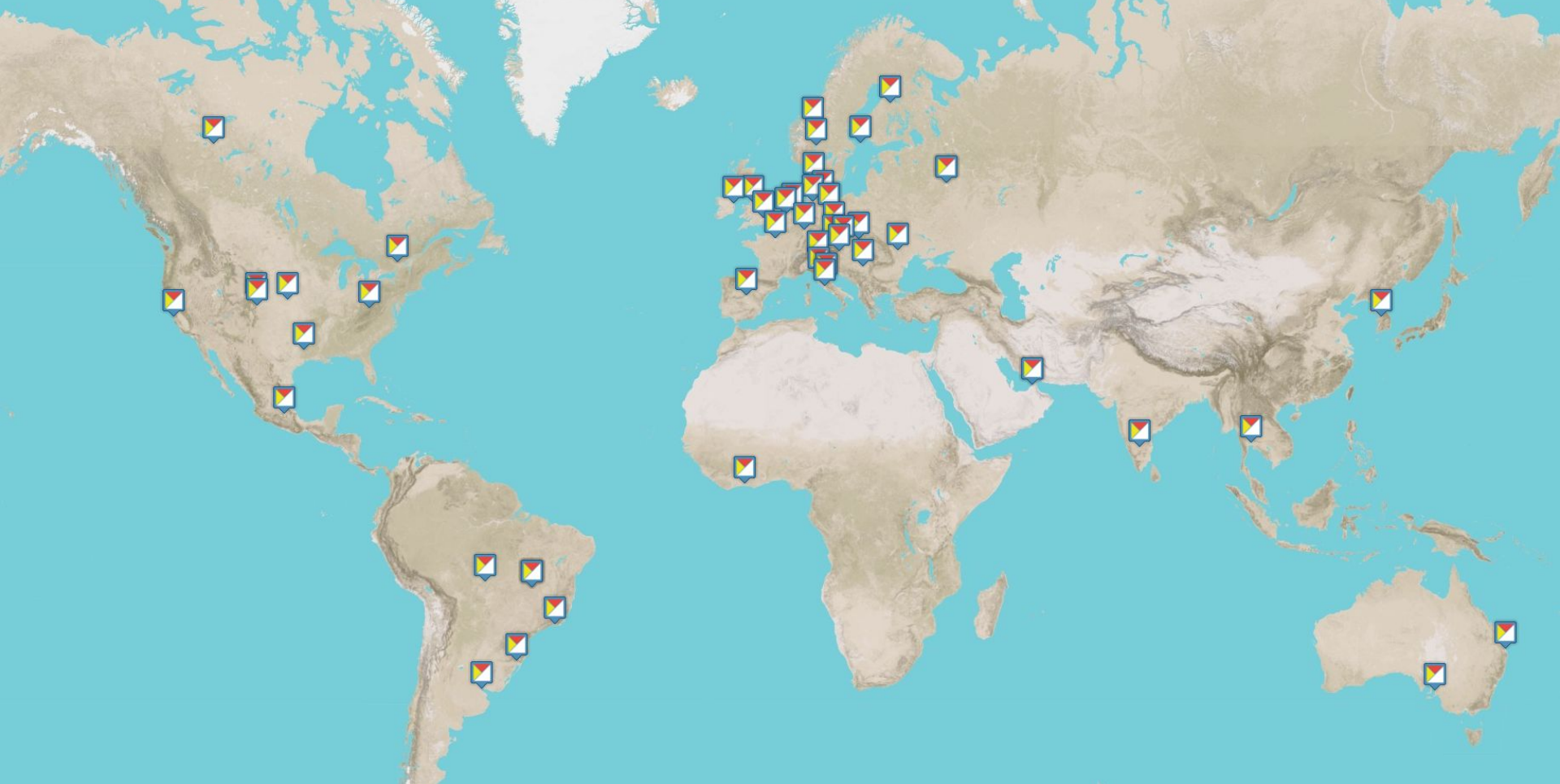
Jo Barratt

@jobarratt

jo.barratt@okfn.org



- Data management system for publishing data online
- Open Source and Community driven
- Extensible architecture and Rich JSON API



<http://ckan.org/instances>

# Use cases

Focus on all parts of data publishing

- Search and discoverability for **re-users of data**
- Data management tools for **publishers**
- Rich extensions and APIs for **developers**

Filter by location [Clear](#)



Map data CC-BY-SA by OpenStreetMap  
Tiles by MapQuest

Organizations [Clear All](#)

National Statistics... (4)

Fusion Science Labs (3)

Department of Kitte... (2)

ULL (1)

Tar (1)

ScraperWiki (1)

Organization Example (1)

**Show More Organizations**

Groups [Clear All](#)

Data Explorer Examples (6)

Geospatial Data Exp... (3)

Salud (1)

**Show More Groups**

# Search and discovery

51 datasets Online home for data

- Central full-text search
- Facet by tag, location, format, license...
- Browse by groups, keywords, publishers...
- Previews and data exploration



Datasets

Organisations

About

Search


[Home](#) / Datasets

**Organisations** [Clear All](#)

Dept of Environment... (38)

State Library of So... (20)

ABS (SA Data) (20)

Department of Plann... (19)

Adelaide City Council (17)

Renewal SA (16)

Local Government As... (13)

Public Health Infor... (12)

Dept for Communitie... (11)

Dept of Further Edu... (10)

**Show More Organisations**
**Tags** [Clear All](#)

nature (46)

community (29)

history (27)

housing (25)

recreation (22)

statistics (20)

Search...

**230 datasets found**

Order by: Last Modified

**SA Memory**

A selected and wide range of digitised archival and published materials from the State Library of South Australia's SA Memory program.

CSV doc

**South Australian Photographs**

Photographs relating to South Australia feature localities across the state, houses and buildings, portraits, social and historical events, industry, farming, transport and more.

CSV doc

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## Income Support Claimants

The number of Income Support (IS) claimants by area.

Income support is a non-contributory benefit paid to people who have low incomes and who are not required to be available for employment. The main types of people receiving IS are pensioners, lone parents, the long and short-term sick, people with disabilities and other special groups.

The figures are broken down by geographical area. The geographical areas used are the codes of National Records of Scotland. [More info.](#)

The links below download the data from the [Office of National Statistics website](#) (via an API). They return either a .csv or a .json file showing the latest IS Claimants statistics for the Glasgow area for the last 8 quarters. If you need further historical data, contact us: [data@glasgow.gov.uk](mailto:data@glasgow.gov.uk)

### Data and Resources

Latest Glasgow Income Support Claimants  
CSV file with the number of Jobseeker Allowance (JA) claimants by area for...

Explore

Latest Glasgow Income Support Claimants  
JSON file with the number of Jobseeker Allowance (JA) claimants by area for...

Explore

benefits

### Additional Information

Author	NOMIS
Maintainer	Glasgow City Council

### Comments

0 comments

0

## District Names

Edit Download Data API

URL: [http://afghanistanelectiondata.org/sites/default/files/district\\_centerpoints.csv](http://afghanistanelectiondata.org/sites/default/files/district_centerpoints.csv)

This data file has geospatial data in the entires which you can see visualised by pressing the 'Map' button below.


Grid Graph Map 399 records 0 100 Search data ... Go Filters

_id	lon	lat	Unit_Type	Dist_Name	Prov_Na...	Dari_Dist	Dari_Prov	Dist_ID	Prov_ID
1	61.33	32.4	District	Qala-e-Kah	Farah	قلعه کاه	فراه	3106	31
2	62.06	32.49	District	Push Rod	Farah	پښت رود	فراه	3105	31
3	61.37	32.11	District	Shib Koh	Farah	شيب کوه	فراه	3107	31
4	62.23	32.24	Provincial...	Farah	Farah	فراه	فراه	3101	31
5	61.83	31.32	District	Kang	Nimroz	کنگ	نيمروز	3402	34
6	62.04	30.91	Provincial...	Zaranj	Nimroz	زرنج	نيمروز	3401	34
7	62.88	32.21	District	Bakwa	Farah	بکواه	فراه	3102	31
8	65.17	30.12	District	Reg	Kandahar	رگ	کندهار	3309	33
9	66.17	30.99	District	Spin Boldak	Kandahar	سپين بولدک	کندهار	3311	33
10	65.16	31.07	District	Parj wayil	Kandahar	پارچوايي	کندهار	3304	33
11	64.99	31.58	District	Maywand	Kandahar	ميوند	کندهار	3308	33
12	65.71	31.51	Provincial...	Kandahar	Kandahar	کندهار	کندهار	3301	33
13	65.4	31.64	District	Zheray	Kandahar	زره	کندهار	3303	33
14	66.55	31.52	District	Arghistan	Kandahar	ارغستان	کندهار	3312	33
15	67.25	31.45	District	Manuf	Kandahar	م معروف	کندهار	3316	33
16	65.2	32.04	District	Ghorak	Kandahar	غورک	کندهار	3315	33
17	65.5	32.01	District	Khakrez	Kandahar	خاکرکز	کندهار	3307	33
18	65.64	31.76	District	Arghandab	Kandahar	ارغنداب	کندهار	3302	33
19	65.78	31.21	District	Daman	Kandahar	دامان	کندهار	3305	33
20	65.71	32.39	District	Nesh	Kandahar	نیش	کندهار	3314	33
21	66.01	32.08	District	Shah Wal...	Kandahar	شاه ولی	کندهار	3306	33
22	66.34	32.38	District	Miyanshin	Kandahar	ميان شين	کندهار	3313	33

## DATA CATALOG

 / Organizations / University of Idaho / Average Date When Lilacs ... / **Web Mapping Service**

### Web Mapping Service

 Download

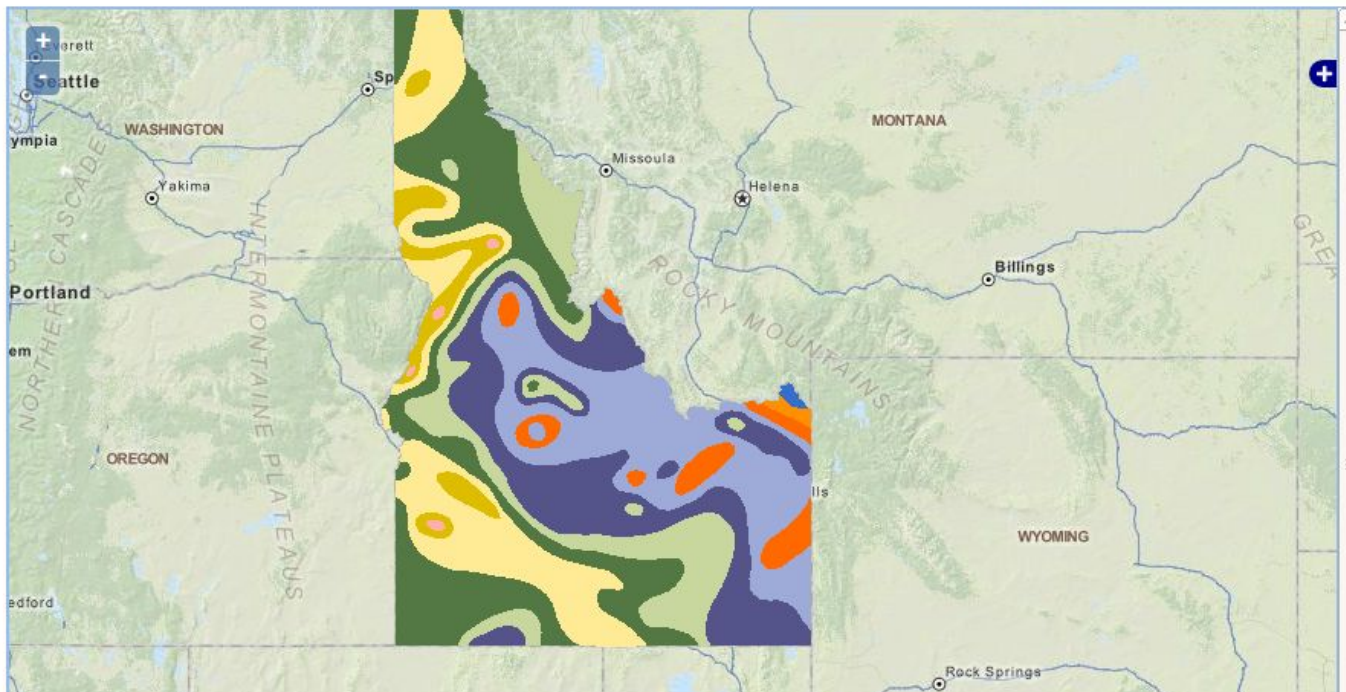
URL: <http://cloud.insideidaho.org/ArcGIS/services/biota/biota/MapServer/WMServer?request=GetCapabilities&service=WMS>

#### From the dataset abstract

This GIS digital data set portrays the average date when lilacs start bloom in Idaho. Information on dates when plants and animals reach various stages in their development is referred to...

Source: Average Date When Lilacs Bloom in Idaho

 View in Advanced Viewer





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373 datasets

<input type="checkbox"/>	<a href="#">Make public</a> <a href="#">Make private</a>
<input type="checkbox"/>	<b>40AR/39AR Ages from the area, Fairbanks A-1, Fairbanks A-2, Fairbanks A-3, Fairbanks A-4, Fairbanks A-5, Fairbanks A-6, Fairbanks A-7, Fairbanks A-8, Fairbanks A-9, Fairbanks A-10, Fairbanks A-11, Fairbanks A-12, Fairbanks A-13, Fairbanks A-14, Fairbanks A-15, Fairbanks A-16, Fairbanks A-17, Fairbanks A-18, Fairbanks A-19, Fairbanks A-20, Fairbanks A-21, Fairbanks A-22, Fairbanks A-23, Fairbanks A-24, Fairbanks A-25, Fairbanks A-26, Fairbanks A-27, Fairbanks A-28, Fairbanks A-29, Fairbanks A-30, Fairbanks A-31, Fairbanks A-32, Fairbanks A-33, Fairbanks A-34, Fairbanks A-35, Fairbanks A-36, Fairbanks A-37, Fairbanks A-38, Fairbanks A-39, Fairbanks A-40, Fairbanks A-41, Fairbanks A-42, Fairbanks A-43, Fairbanks A-44, Fairbanks A-45, Fairbanks A-46, Fairbanks A-47, Fairbanks A-48, Fairbanks A-49, Fairbanks A-50, Fairbanks A-51, Fairbanks A-52, Fairbanks A-53, Fairbanks A-54, Fairbanks A-55, Fairbanks A-56, Fairbanks A-57, Fairbanks A-58, Fairbanks A-59, Fairbanks A-60, Fairbanks A-61, Fairbanks A-62, Fairbanks A-63, Fairbanks A-64, Fairbanks A-65, Fairbanks A-66, Fairbanks A-67, Fairbanks A-68, Fairbanks A-69, Fairbanks A-70, Fairbanks A-71, Fairbanks A-72, Fairbanks A-73, Fairbanks A-74, Fairbanks A-75, Fairbanks A-76, Fairbanks A-77, Fairbanks A-78, Fairbanks A-79, Fairbanks A-80, Fairbanks A-81, Fairbanks A-82, Fairbanks A-83, Fairbanks A-84, Fairbanks A-85, Fairbanks A-86, Fairbanks A-87, Fairbanks A-88, Fairbanks A-89, Fairbanks A-90, Fairbanks A-91, Fairbanks A-92, Fairbanks A-93, Fairbanks A-94, Fairbanks A-95, Fairbanks A-96, Fairbanks A-97, Fairbanks A-98, Fairbanks A-99, Fairbanks A-100</b> 40Ar/39Ar data from plutonic, dated during geologic mapping of the district geologic map area in part of the Fairbanks area, Fairbanks A-1, Fairbanks A-2, Fairbanks A-3, Fairbanks A-4, Fairbanks A-5, Fairbanks A-6, Fairbanks A-7, Fairbanks A-8, Fairbanks A-9, Fairbanks A-10, Fairbanks A-11, Fairbanks A-12, Fairbanks A-13, Fairbanks A-14, Fairbanks A-15, Fairbanks A-16, Fairbanks A-17, Fairbanks A-18, Fairbanks A-19, Fairbanks A-20, Fairbanks A-21, Fairbanks A-22, Fairbanks A-23, Fairbanks A-24, Fairbanks A-25, Fairbanks A-26, Fairbanks A-27, Fairbanks A-28, Fairbanks A-29, Fairbanks A-30, Fairbanks A-31, Fairbanks A-32, Fairbanks A-33, Fairbanks A-34, Fairbanks A-35, Fairbanks A-36, Fairbanks A-37, Fairbanks A-38, Fairbanks A-39, Fairbanks A-40, Fairbanks A-41, Fairbanks A-42, Fairbanks A-43, Fairbanks A-44, Fairbanks A-45, Fairbanks A-46, Fairbanks A-47, Fairbanks A-48, Fairbanks A-49, Fairbanks A-50, Fairbanks A-51, Fairbanks A-52, Fairbanks A-53, Fairbanks A-54, Fairbanks A-55, Fairbanks A-56, Fairbanks A-57, Fairbanks A-58, Fairbanks A-59, Fairbanks A-60, Fairbanks A-61, Fairbanks A-62, Fairbanks A-63, Fairbanks A-64, Fairbanks A-65, Fairbanks A-66, Fairbanks A-67, Fairbanks A-68, Fairbanks A-69, Fairbanks A-70, Fairbanks A-71, Fairbanks A-72, Fairbanks A-73, Fairbanks A-74, Fairbanks A-75, Fairbanks A-76, Fairbanks A-77, Fairbanks A-78, Fairbanks A-79, Fairbanks A-80, Fairbanks A-81, Fairbanks A-82, Fairbanks A-83, Fairbanks A-84, Fairbanks A-85, Fairbanks A-86, Fairbanks A-87, Fairbanks A-88, Fairbanks A-89, Fairbanks A-90, Fairbanks A-91, Fairbanks A-92, Fairbanks A-93, Fairbanks A-94, Fairbanks A-95, Fairbanks A-96, Fairbanks A-97, Fairbanks A-98, Fairbanks A-99, Fairbanks A-100
<input type="checkbox"/>	<b>40Ar/39Ar ages from the Seward and Candle B-5 quadrangles, Seward B-1, Seward B-2, Seward B-3, Seward B-4, Seward B-5, Seward B-6, Seward B-7, Seward B-8, Seward B-9, Seward B-10, Seward B-11, Seward B-12, Seward B-13, Seward B-14, Seward B-15, Seward B-16, Seward B-17, Seward B-18, Seward B-19, Seward B-20, Seward B-21, Seward B-22, Seward B-23, Seward B-24, Seward B-25, Seward B-26, Seward B-27, Seward B-28, Seward B-29, Seward B-30, Seward B-31, Seward B-32, Seward B-33, Seward B-34, Seward B-35, Seward B-36, Seward B-37, Seward B-38, Seward B-39, Seward B-40, Seward B-41, Seward B-42, Seward B-43, Seward B-44, Seward B-45, Seward B-46, Seward B-47, Seward B-48, Seward B-49, Seward B-50, Seward B-51, Seward B-52, Seward B-53, Seward B-54, Seward B-55, Seward B-56, Seward B-57, Seward B-58, Seward B-59, Seward B-60, Seward B-61, Seward B-62, Seward B-63, Seward B-64, Seward B-65, Seward B-66, Seward B-67, Seward B-68, Seward B-69, Seward B-70, Seward B-71, Seward B-72, Seward B-73, Seward B-74, Seward B-75, Seward B-76, Seward B-77, Seward B-78, Seward B-79, Seward B-80, Seward B-81, Seward B-82, Seward B-83, Seward B-84, Seward B-85, Seward B-86, Seward B-87, Seward B-88, Seward B-89, Seward B-90, Seward B-91, Seward B-92, Seward B-93, Seward B-94, Seward B-95, Seward B-96, Seward B-97, Seward B-98, Seward B-99, Seward B-100</b> 40Ar/39Ar data from seven plutonic samples collected during mineralogical mapping that various rock units in the Seward and Candle B-5 quadrangles, Seward B-1, Seward B-2, Seward B-3, Seward B-4, Seward B-5, Seward B-6, Seward B-7, Seward B-8, Seward B-9, Seward B-10, Seward B-11, Seward B-12, Seward B-13, Seward B-14, Seward B-15, Seward B-16, Seward B-17, Seward B-18, Seward B-19, Seward B-20, Seward B-21, Seward B-22, Seward B-23, Seward B-24, Seward B-25, Seward B-26, Seward B-27, Seward B-28, Seward B-29, Seward B-30, Seward B-31, Seward B-32, Seward B-33, Seward B-34, Seward B-35, Seward B-36, Seward B-37, Seward B-38, Seward B-39, Seward B-40, Seward B-41, Seward B-42, Seward B-43, Seward B-44, Seward B-45, Seward B-46, Seward B-47, Seward B-48, Seward B-49, Seward B-50, Seward B-51, Seward B-52, Seward B-53, Seward B-54, Seward B-55, Seward B-56, Seward B-57, Seward B-58, Seward B-59, Seward B-60, Seward B-61, Seward B-62, Seward B-63, Seward B-64, Seward B-65, Seward B-66, Seward B-67, Seward B-68, Seward B-69, Seward B-70, Seward B-71, Seward B-72, Seward B-73, Seward B-74, Seward B-75, Seward B-76, Seward B-77, Seward B-78, Seward B-79, Seward B-80, Seward B-81, Seward B-82, Seward B-83, Seward B-84, Seward B-85, Seward B-86, Seward B-87, Seward B-88, Seward B-89, Seward B-90, Seward B-91, Seward B-92, Seward B-93, Seward B-94, Seward B-95, Seward B-96, Seward B-97, Seward B-98, Seward B-99, Seward B-100
<input type="checkbox"/>	<b>40Ar/39Ar ages from the Tyonek D-7, Tyonek D-8, Tyonek D-9, Tyonek D-10, Tyonek D-11, Tyonek D-12, Tyonek D-13, Tyonek D-14, Tyonek D-15, Tyonek D-16, Tyonek D-17, Tyonek D-18, Tyonek D-19, Tyonek D-20, Tyonek D-21, Tyonek D-22, Tyonek D-23, Tyonek D-24, Tyonek D-25, Tyonek D-26, Tyonek D-27, Tyonek D-28, Tyonek D-29, Tyonek D-30, Tyonek D-31, Tyonek D-32, Tyonek D-33, Tyonek D-34, Tyonek D-35, Tyonek D-36, Tyonek D-37, Tyonek D-38, Tyonek D-39, Tyonek D-40, Tyonek D-41, Tyonek D-42, Tyonek D-43, Tyonek D-44, Tyonek D-45, Tyonek D-46, Tyonek D-47, Tyonek D-48, Tyonek D-49, Tyonek D-50, Tyonek D-51, Tyonek D-52, Tyonek D-53, Tyonek D-54, Tyonek D-55, Tyonek D-56, Tyonek D-57, Tyonek D-58, Tyonek D-59, Tyonek D-60, Tyonek D-61, Tyonek D-62, Tyonek D-63, Tyonek D-64, Tyonek D-65, Tyonek D-66, Tyonek D-67, Tyonek D-68, Tyonek D-69, Tyonek D-70, Tyonek D-71, Tyonek D-72, Tyonek D-73, Tyonek D-74, Tyonek D-75, Tyonek D-76, Tyonek D-77, Tyonek D-78, Tyonek D-79, Tyonek D-80, Tyonek D-81, Tyonek D-82, Tyonek D-83, Tyonek D-84, Tyonek D-85, Tyonek D-86, Tyonek D-87, Tyonek D-88, Tyonek D-89, Tyonek D-90, Tyonek D-91, Tyonek D-92, Tyonek D-93, Tyonek D-94, Tyonek D-95, Tyonek D-96, Tyonek D-97, Tyonek D-98, Tyonek D-99, Tyonek D-100</b> 40Ar/39Ar data from plutonic ages from preliminary mapping of the Tyonek D-7 and C-6 quadrangles yield results that various rock units in the Tyonek D-7 and C-6 quadrangles, Tyonek D-1, Tyonek D-2, Tyonek D-3, Tyonek D-4, Tyonek D-5, Tyonek D-6, Tyonek D-7, Tyonek D-8, Tyonek D-9, Tyonek D-10, Tyonek D-11, Tyonek D-12, Tyonek D-13, Tyonek D-14, Tyonek D-15, Tyonek D-16, Tyonek D-17, Tyonek D-18, Tyonek D-19, Tyonek D-20, Tyonek D-21, Tyonek D-22, Tyonek D-23, Tyonek D-24, Tyonek D-25, Tyonek D-26, Tyonek D-27, Tyonek D-28, Tyonek D-29, Tyonek D-30, Tyonek D-31, Tyonek D-32, Tyonek D-33, Tyonek D-34, Tyonek D-35, Tyonek D-36, Tyonek D-37, Tyonek D-38, Tyonek D-39, Tyonek D-40, Tyonek D-41, Tyonek D-42, Tyonek D-43, Tyonek D-44, Tyonek D-45, Tyonek D-46, Tyonek D-47, Tyonek D-48, Tyonek D-49, Tyonek D-50, Tyonek D-51, Tyonek D-52, Tyonek D-53, Tyonek D-54, Tyonek D-55, Tyonek D-56, Tyonek D-57, Tyonek D-58, Tyonek D-59, Tyonek D-60, Tyonek D-61, Tyonek D-62, Tyonek D-63, Tyonek D-64, Tyonek D-65, Tyonek D-66, Tyonek D-67, Tyonek D-68, Tyonek D-69, Tyonek D-70, Tyonek D-71, Tyonek D-72, Tyonek D-73, Tyonek D-74, Tyonek D-75, Tyonek D-76, Tyonek D-77, Tyonek D-78, Tyonek D-79, Tyonek D-80, Tyonek D-81, Tyonek D-82, Tyonek D-83, Tyonek D-84, Tyonek D-85, Tyonek D-86, Tyonek D-87, Tyonek D-88, Tyonek D-89, Tyonek D-90, Tyonek D-91, Tyonek D-92, Tyonek D-93, Tyonek D-94, Tyonek D-95, Tyonek D-96, Tyonek D-97, Tyonek D-98, Tyonek D-99, Tyonek D-100
<input type="checkbox"/>	<b>A Guide to the Late Quaternary Geology of the Western Kenai Peninsula, Alaska</b> Between 27 and 11 kyr ago, during the last glacial period, the northwestern and Cook Inlet trough were covered by ice.
<input type="checkbox"/>	<b>Active and potentially active faults along the Highway corridor, ...</b> During the 2006 and 2007 field

# Data Management for Publishers

- Easily add and update records
- Workflow and approval
- Fine grained authorization controls
- Download and view counts

Home / Datasets / Create Dataset

What are datasets?

A CKAN Dataset is a collection of data resources (such as files), together with a description and other information, at a fixed URL. Datasets are what users see when searching for data.

1 Create dataset

2 Add data

Title: eg. A descriptive title

\* URL: localhost:5000/dataset/<dataset>

Edit

Description: eg. Some useful notes about the data

You can use [Markdown formatting](#) here

Tags: eg. economy, mental health, government

License: Creative Commons Attributi...



License definitions and additional information can be found at [opendefinition.org](http://opendefinition.org)

Organization: Hola

Visibility: Private

Source: http://example.com/dataset.json

Version: 1.0

# DATA CATALOG

Home / Organizations / State of Alaska / Admin



## State of Alaska

The State of Alaska contributes several collections of digital geospatial data and services for government and public use. The Dept of Geological and Geophysical Surveys and the... [read more](#)

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<input type="checkbox"/>	<p><b>40AR/39AR Ages from the East Bonnifield geologic map area, Fairbanks A-1, Fai...</b></p> <p>40Ar/39Ar data from plutonic, dike, and alteration samples collected during geologic mapping of the eastern part of the Bonnifield mining district geologic map area in parts of...</p>		
<input type="checkbox"/>	<p><b>40Ar/39Ar ages from the Selawik A-2, A-3 and A-4 and Candle B-5 quadrangles, ...</b></p> <p>40Ar/39Ar data from seven plutonic samples and one metamorphic sample collected during mineral assessment studies in 1991 show that various rock units in the Selawik Hills...</p>		
<input type="checkbox"/>	<p><b>40Ar/39Ar ages from the Tyonek D-6 quadrangle and parts of Tyonek D-7, Tyonek...</b></p> <p>40Ar/39Ar data from plutonic and volcanic samples collected during preliminary mapping of the Tyonek D-6 and parts of Tyonek D-5, D-7 and C-6 quadrangles yield results...</p>		
<input type="checkbox"/>	<p><b>A Guide to the Late Quaternary History of Northern and</b></p>		

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geospatial (371)

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geoscientificinform... (358)

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proposed natural ga... (267)

gasline (265)

alaska pipeline (259)



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*There is no description for this harvest source*

Datasets

**3462**

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## Harvest Jobs

**Job: 9f9ea28c-7b21-4ebd-be0b-7d12926d904e** Running

Started: Sep 05, 2013, 14:59 — Finished: Not yet

**Job: cfd2bfa0-b4f2-4b13-8e6c-fc28d7438279**

Started: Sep 05, 2013, 14:28 — Finished: Not yet

0 added 0 updated 0 deleted

**Job: 70c422bb-bd7d-4bcc-beca-f43d4b061126**

Started: Jun 12, 2013, 13:00 — Finished: Jun 12, 2013, 16:44

1 errors 3273 added 188 updated 0 deleted

```
class IatiDatasets(p.Singleton
```

```
p.implements(p.IDatasetForm
p.implements(p.IPackageCon
p.implements(p.IConfigure
p.implements(p.ITemplateH
p.implements(p.IActions)
p.implements(p.IAuthFunc
```

```
## IDatasetForm
```

```
def is_fallback(self):
    return True
```

```
def package_types(self):
    return []
```

```
def _modify_package_schem
```

```
# Import core convert
_convert_to_extras =
_ignore_missing = p.to
_ignore_empty = p.too
_int_validator = p.to
```

```
schema.update({
    'filetype': [_ign
    'country': [_igno
    'data_updated': [_
    'activity_period':
    'activity_count':
    'archive_file': [_
    'verified': [_ign
    'language': [_ign
    'secondary_public
    'issue_type': [_i
    'issue_message':
    'issue_date': [_i
```

```
}}
```

```
schema['owner_org'].a
```

# Tools for developers

- Powerful action API
- Extensible default schema
- Multiple extension points
- Specialized extensions

# Featured extensions

- [ckanext-scheming](#)

Easy, shareable custom schemas defined in JSON

- [ckanext-dcat](#)

Input and output metadata as Linked Data (DCAT-AP)

- [ckanext-spatial](#)

Spatial search and harvesters for CSW / ISO19139

- [ckanext-cloudstorage](#)

Cloud backends for file Storage (Amazon S3, Azure, ...)

# Learn more

Overview and Feature Tour:

<https://ckan.org>

Documentation:

<https://docs.ckan.org>

All our code is on Github:

<https://github.com/ckan/ckan>

Get in touch:

<https://ckan.org/contact>