

# Downloading shape files, CSV, linking into Google Earth etc

The map server allows access to WGS 84 and NZTM projections and can also output in many different formats with:

```
https://io.trap.nz/geo/trapnz-projects/wfs/apikey/project_id?  
service=WFS&version=1.0.0&request=GetFeature&typeName=layer&outputFormat=format
```

Output formats:

GML2	<code>outputFormat=GML2</code>
GML3	<code>outputFormat=GML3</code>
Shapefile	<code>outputFormat=shape-zip</code>
JSON	<code>outputFormat=application/json</code>
JSONP	<code>outputFormat=text/javascript</code>
CSV	<code>outputFormat=csv</code>

e.g. to get a shapefile of trap locations:

```
https://io.trap.nz/geo/trapnz-projects/wfs/apikey/project_id?  
service=WFS&version=1.0.0&request=GetFeature&typeName=trapnz-projects:my-projects-traps&outputFormat=shape-zip
```

KML (you can link this directly into Google Earth):

```
https://io.trap.nz/geo/trapnz-projects/wfs/apikey/project_id?  
service=WFS&version=2.0.0&request=GetFeature&typeName=trapnz-projects:my-projects-  
traps&outputFormat=application/vnd.google-earth.kml+xml
```

CSV:

```
https://io.trap.nz/geo/trapnz-projects/wfs/apikey/project_id?  
service=WFS&version=2.0.0&request=GetFeature&typeName=trapnz-projects:my-projects-traps&outputFormat=csv
```

You can also view features directly in OpenLayers:

```
https://io.trap.nz/geo/trapnz-projects/wfs/apikey/project_id?service=WMS&version=1.1.0&request=GetMap&layers=trapnz-  
projects:my-projects&bbox=174.94,-41.5,174.95,-41&width=708&height=768&srs=EPSG:4326&format=application/openlayers
```

## Notes:

The WFS server is set to return a maximum of 10k features per request. If you have more that, you will need to use software (e.g. ArcGIS Pro, or QuantumGIS) to page requests, or include `count` and `startIndex` parameters. [See the WFS specification.](#)

The shapefile format has a number of limitations - see the [Geoserver documentation](#). Datetime fields are not supported - only the date will be included.

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🔗Revision #8

★Created 15 December 2021 19:53:50 by Daniel Bar-Even

🔗Updated 30 April 2023 20:46:45 by Daniel Bar-Even