Cliflo for Dummies

¹This document is a very quick guide to making simple queries using CLIFLO using two common examples:

- I want to obtain daily rainfall data from Christchurch for the month of November 2004, and
- I wish to get some wind data summaries for North Canterbury. How do I do this?

Daily Rainfall for Christchurch.

After logging in to Cliflo the main Data Query page will be displayed. In the top right hand corner your user name will be displayed.

Database Query Form - Microsoft Internet Explorer	
Ele Edit View Favorites Iools Help	
🔇 Back 🔻 🕥 - 🖹 🛃 🏠 🔎 Search 🤺 Favorites 🤣 🔗 🍓	🖻 🔹 📙 🦓 ang
Address 🕘 http://clifio.niwa.co.nz/pls/niwp/wgenf.genform1	🗸 🄁 Go 🛛 Links 🎽
Google - 👘 Search Web - 🚿 🗗 527 blocked 🔚 Aut	oFil 🔁 🚾 Options 🥒
The National Climate Database	Alber Ablerse help home subscription query General Help Home Subscription Info Guery Help
Database Query Update settings Preview Send	Query 🖉 Your subscription details: username=aharper 🗉
1. Datatype	
select datatype(s)	Remove All Datatypes
Selected datatype(s): Specify options:	Remove datatype:
Please choose a datatype using the "select datatype(s)" button above.	
2. Location	
choose station(s) 🖉 (based on "updated" datatypes above)	last used station(s) 👻 Manage 🔮
Station agent number(s):	1945,3385,4843,15752,3925
3. Date/time	
0	last used date 🔽 Manage 🕼
Start date (yyyy mm dd hh):	2005 02 11 00
End date (yyyy mm dd hh):	2005 02 14 00
4. Format	
E Done	🥥 Internet

If there are any Datatypes listed click on the **Remove All Datatypes button**. Next click on **select datatype(s)** and the following window will be displayed.

For this query all we want is the daily observations so we click on **Observations from land stations** to get the window shown below.

If it was monthly totals or similar we wanted, we would have selected either Combined statistics calculated from observations or Statistics calculated from land stations.

a 1	nttp://cliflo.niwa.co.nz - Datatype Selection - Microsoft 🔳 🗖	×
6	Datatype Selection	~
1.0 No sel que and 2.3 3.0 4.1 not	Click main category to find different datatypes. te: The main selection categories are mutually exclusive i.e. you can only set datatypes from ONE category. <u>PEMOVE all datatypes</u> from the database ry form before selecting a new category e.g. moving between "Land Stations" "Combined Statistics". Select a datatype (from a yellow box). betatype will be automatically added to your database query form. tems labeled "MA" are not yet available or not accessable. Some datatypes may be displayed if you do not have the appropriate access rights.	
Ma	in Selection	
	Observations from land stations Combined statistics calculated from observations Statistics calculated from observations	
►	High temporal resolution data/10 min	
	Observations from ships	
Dat Cli	abase Query Form. Ro Home	
STA .		

¹ Note that these examples may look different in other web browsers.



Next we click on **Precipitation.**

If we also wanted for example some temperature data we could have also selected **Temperature and Humidity.**



This expands on the options available. In this case all we are after is basic daily rainfall so will click on **Rain (fixed periods).**

At this point the main database query form will update with the rainfall data type appearing on the form.

We may have to close the window shown on the left after selecting **Rain (fixed periods)** as it does not close itself. The reason for this is there may be other data types users wish to select.

The updated query form will look similar to the next picture. In this case daily rain is the default option. Hourly and Synoptic (6 hour totals) are also available from some stations. If desired all three options can be chosen at the same time.

Database Query Form - Microsoft Internet Explorer	
Eile Edit View Favorites Iools Help	
🚱 Back 🔹 🕥 🕤 📓 🐔 🔎 Search 🤺 Favorites 🤣 🔗 - 🌺	🗑 🔹 📙 🦓 ang sang sang sang sang sang sang sang
Address 🕘 http://cliflo.niwa.co.nz/pls/niwp/wgenf.genform1?cdt=ls_ra&cadd=t	So Links *
Google - 🚺 🍪 Search Web 🔹 🛷 🔁 529 blocked 📲 Au	toFill 🕒 🔤 Options 🥒
The National Climate Database	Falters Networker Falters Networker help home subscription query General Help Home Subscription Info Query Help
Database Query Update settings Preview Send	Guery Ø Your subscription details: username=aharper
1. Datatype Select datatype(s)	Remove All Datatypes
Selected datatype(s): Specify options:	Remove datatype:
Rain	0
2. Location	
choose station(s) 👔 (based on "updated" datatypes above)	last used station(s) 💟 Manage 👔
Station agent number(s):	1945,3385,3925,4843,15752
3. Date/time	last used date 👻 Manage 🛛 🕢
Start date (yyyy mm dd hh):	2005 02 11 00
End date (yyyy mm dd hh):	2005 02 14 00
E Done	S Internet

Next we need to choose what stations we want the data from. There are already some stations in the list as shown here as Cliflo defaults to the last used query. Just ignore these for now and click on the **choose station(s)** to get to the following window.

🐴 http://cliflo.niwa.co.nz - Choose Stations - Microsoft Int 🔳 🗖	×
Find Stations	^
Use this form for station searches based on the selected datatypes (displayed on the <u>database query form)</u> . For searches with no dependencies on the datatype use the links from the <u>CliFlo Home</u> .	
Options 😰	
Combine datatypes when searching for stations by: O All datatypes must exist at station (Boolean AND) O Any datatype may exist at station (Boolean OR)	
Find station using:	
Station Name: (Pattern) e.g. Wellington	
O Retwork Number (Pattern) e.g.	
O Agent Number (Number) e.g. 3445	
O Region: Select Region	
Lat/Long: based on circle with radius 44.009 169.385 (km) 30	
Station Status: All	
File download option: HTML Table	
Get Station(s) Reset To Default Values	*
🖉 🔰 🔮 Internet	

Because I am after data from Christchurch but don't know the number of the station I will select by name.

Click in the dot beside **Station** Name to select that option and simply type in Christchurch, or even just Christ and click on the **Get Station(s)** button the stations with Christ in the name that record daily rainfall will all appear.

The list below shows a number of details on the stations available with further information able to be viewed by clicking on any of the hyperlinks.

Of note in this selection in the names is

AWS and EWS. AWS is an Automatic Weather Station and typically are operated by MetService. EWS is an Electronic Weather Station and are typically NIWA, or other

🗈 Sta	tion Lis	l - Micros	oft Interne	et Explore	r					
Ele	Edit ye	w Favor	ites <u>T</u> ools	Help						
G	Back 🔻	O - (× 2 ()) 9	iearch 🤸	Favorites 🚱 🔗	- 🏊	w •	8	
ddrae	- 🐻 I.u.	ulldile niv	o co palalela	iunhusta asi	t ata 2a ang	dt-ordertung-manager	mate-Chain	961ak-90.	ent-8::Decime=Select9::det1= 44.0009::decet=160.3959::cend=30 💌 🌄 Ga	
	nle -	styleine the	a.co.nz/pis/n	Mp/visur.ge	web Web	dt=0100.stype=naneous			College	
CICA	unue iai	nong to s	ar a search	TOF SEGUOITS V	viun a paris	culai radius.			e chorp //	
∙or si Statio	earcnes w ns can be	added to th	ndendcies on ie database q	uery form by	es use the lin selecting th	e appropriate checkbox a	nd the			
'Add	Stns" butt	on at the en	d of the listing	g. 🖌						
Selec	ted DataT	rpes were	combined by:	"ANY selec	ted datatyp	es may exist (OR'd)"				
Selec	cted Data	ypes are:								
Code	e Descrip	tion al Daily Pai								
181	ream: 10	ai Daily Kai	ntai							
Back	to Find s	tations us	ing datatype	28						
Sele	et Agent	Network	Start	End	Percent	Name	Lat (dec dea	Long		
	4843	H32451	01-Dec-1945	07-Feb-200	5 100	Christchurch Aero	-43.493	172.537		
	24120	H3256F	01-Nov-2002	07-Feb-200	5 100	Christchurch, Kyle St Ew	s -43.53074	172.60769		
	4858	H32561	01-Jan-1873	06-Feb-200	5 90	Christchurch Gardens	-43.531	<u>172.619</u>		
	<u>16638</u>	H3256D	01-Jun-1998	31-Dec-200	4100	Christchurch, Kyle St	<u>-43.533</u>	<u>172.607</u>		
	<u>5932</u>	<u>J49000</u>	01-Jan-1971	31-Dec-200	090	Kiribati,Christmas Is	<u>1.983</u>	<u>-157.483</u>		
	<u>10332</u>	<u>H32452</u>	27-Jun-1994	15-Nov-199	4 50	Christchurch Aero Aws	<u>-43.49</u>	<u>172.528</u>		
	4853	H32556	01-Dec-1977	28-Feb-199	0 100	Christchurch, llam	<u>-43.52</u>	<u>172.569</u>		
	<u>4870</u>	H32573	01-Aug-1961	28-Feb-199	0 100	Christchurch, Bromley	<u>-43.527</u>	172.702		
	<u>4852</u>	<u>H32555</u>	01-Jun-1975	31-Jan-1978	3 100	Christchurch Airport	<u>-43.493</u>	172.537		
	4864	<u>H32567</u>	01-Jan-1967	31-Dec-197	7 90	Christchurch,Pages Rd	-43.528	172.682		
Numl	ber of sta	tions in li	st: 10							
Adı	d Stns	Replace \$	Stns Chr	eck All	Toggle Selec	ction Reset To D	efaut Valu	es		
The 7	0.447 34.484	n will only th	to polooted of	lationa ta tina	detekses a	unu fann llea "Danlaca" k	then will re-	niono tino avia	ding obtions in the detailorse grow from	
Note t	the maxim	in number (of stations the	at can be add	ied is about 6	50.	autori Willie	proce and exa	ang anana a na ang angana gara y ra ni.	
Don	ne								Internet	

CRI operated stations. EWS stations were named "EWS" to easily differentiate between MetService AWS and other automatic weather stations.

Also of note is the Lat and Long for Kyle St which are to 5 decimal places. This means the location has been confirmed by GPS.

The start and end dates show the period the daily rain data are available for each station.

After checking some of the details for each station, I have decided I want data from Christchurch Aero and Kyle St so I clicked in the Select boxes for each of these two stations and then click on the **Replace Stns** button. This overwrites the list of stations that were already in the list.

Again we need to close the Choose Station window.

Now our query form will look similar as shown below.

Database Query Form - Microsoft Internet Explorer	
Eile Edit View Favorites Iools Help	
🌀 Back 🔹 🕥 - 💌 😰 🏠 🔎 Search 🤺 Favorites 🤣 🍰 - 💺	🗑 • 🔜 🦓 and an ann an
Address 🕘 http://cliflo.niwa.co.nz/pls/niwp/wstn.update_stn_query?cstn=dummy&cstn=4843&cstn=	=24120&Submit=Replace+Stns
Google - 👘 Search Web 🝷 🖚 🔁 530 blocked 📲 Au	soFill 🕒 🚾 Options 🥒
The National Climate Database	Taiharo Nukurang help home subscription query General Help Home Subscription Info Query Help
Database Query Update settings Preview Send	Guery Ø Your subscription details: username=aharper
1. Datatype	
select datatype(s)	Remove All Datatypes
Selected datatype(s): Specify options:	Remove datatype:
Rain 🕐 🛛 🖓 Daily Houry Synoptic	ő
2. Location	
choose station(s)	last used station(s) 🖌 Manage 👔
Station agent number(s):	4843,24120
3. Date/time	last used date 👽 Manage 👔
Charle dates / or or your did late's	
Start date (yyyy nin dd nn).	
End date (yyyy mm dd hh):	2005 02 14 00
Cone Cone Cone Cone Cone Cone Cone Cone	🥥 Internet

Now we can scroll down and enter the period we are after, in this case November 2004 and choose the format on how we want the data. Most of the options are straight forward. In my case I want the data in New Zealand Standard Time, and as I will be using Excel, I have selected one of the many date time formats from the list. I want separate date time columns and I want the data to be downloaded as an Excel file. I want the data to be identified by the station name and finally I want the data to be sorted by Station and then date.

Database Query Form - Microsoft Internet Explorer							
Eile Edit View Favorites Iools Help	🙀 🖉 👘 👘 👘 🖉						
🚱 Back 🔹 🕥 🕤 📓 🏠 🔎 Search 🤺 Favorites 🤣 🍛 🎍	🌀 Back + 😥 - 📓 🛃 💋 Search 👷 Favorites 🤣 🎯 + 🥁 📓 🔹 🖵						
Address 🗃 http://cliflo.niwa.co.nz/pls/niwp/wstn.update_stn_guery?cstn=dummy&cstn=4843&cstn	=24120&Submit=Replace+Stns 🔽 🄁 Go Links 🌺						
Google - 👘 Search Web 🔹 🐗 🔁 530 blocked 🔚 Au	toFil 🕒 🚾 Options 🥒						
2. Location	<u></u>						
choose station(s) 🕼 (based on "updated" datatypes above)	last used station(s) 💌 Manage 👔						
Station agent number(s):	4843,24120						
3. Date/time							
0	last used date 🔽 Manage 👔						
Start date (yyyy mm dd hh):	2004 11 01 00						
End date (yyyy mm dd hh):	2004 12 01 00						
4. Format							
0	last used format 👻 Manage 👔						
Date/Time standard for output: IIZST is NZ Standard Time	N7ST V Ø						
UTC is Universal Coordinated Time							
Date/time format for output:	Excel (d/m/yyyy hh:mi)						
Suit data into data and time columner	O No (single date column)						
Spin outo into doto one timo colorina.	 Yes (separate date and time columns) 						
File download option:	Excel File V						
Station Identifier:	Station Name 🗸 🕖						
Data Sort Order	Station/Date 💌 🕖						
Include reliabilities and origins:	Incl rel 🔲 Incl orig 🕖						
Update settings Preview Send Query							
	×						
Done	🥥 Internet 🛒						

You may want to **Preview** the data first. This will save the current settings and provide the first row of data (as an example) and a count of the number of rows from each station without being charged any rows.

Now I can **Send Query** to get the data.

After resizing some of the columns here is a sample of the output.

🗈 http://cliflo.niwa.co.nz/pls/niwp/wgenf.genform1_proc - Microsoft Internet Explorer										
File Edit View Insert Format Tools Data GoTo Favorites Help 🦉										
😋 Back • 🕥 · 🖹 🗟 🏠 🔎 Search 👷 Fevorites 🤣 🏢 ⊘ • 🌺 🔜 🔜 🦓										
Address 🗿 http://clflo.niwa.co.nz/pls/niwolwcenf.cenform1_proc										
A1 - 9										
		on.	D	E	C	G	U	1	1	
1 Station information:		C	U	L		6			J	
2 Name	Agent Numbe	Network Nun	Latituda (dac r	Longitude (dec.de	Height (m)	Posn Prec	Observing A	uthority		
3 Christchurch Aero	4843	H32451	-43 493	172 537	37	G	Ainwaye Cor	noration		
4 Christchurch, Kyle St Fws	24120	H3256F	-43.53074	172.60769	6	H	Niwa	per au on		
5 Note: Position precision type	bes are: "W" =	based on wh	ole minutes. "T	" = estimated to te	nth minute.					
6 G = derived from aridref . "E	= error case	s derived from	aridref.							
7 H = based on GPS reading	s (NZGD49).									
8										
9 Rain: Daily										
10 Station	Date(NZST)	Time(NZST)	Amount(mm)	State_of_Ground	Deficit(mm)	Runoff(mm)	Period(Hrs)	Freq		
11 Christchurch Aero	1/11/2004	8:00	0		77.7	0	24	D		
12 Christchurch Aero	2/11/2004	8:00	0		81.8	0	24	D		
13 Christchurch Aero	3/11/2004	8:00	0		85.7	0	24	D		
14 Christchurch Aero	4/11/2004	8:00	0	-	89.3	0	24	D		
15 Christchurch Aero	5/11/2004	8:00	0	-	92.7	0	24	D		
16 Christchurch Aero	6/11/2004	8:00	0	•	96	0	24	D		
17 Christchurch Aero	7/11/2004	8:00	0	-	99.1	0	24	D		
18 Christchurch Aero	8/11/2004	8:00	0		102	0	24	D		
19 Christchurch Aero	9/11/2004	8:00	0		104.7	0	24	D		
20 Christchurch Aero	10/11/2004	8:00	0		107.3	0	24	D		
21 Christchurch Aero	11/11/2004	8:00	1.4	•	108.3	0	24	D		
22 Christchurch Aero	12/11/2004	8:00	0	-	110.6	0	24	D		
23 Christchurch Aero	13/11/2004	8:00	0	•	112.9	0	24	D		
24 Christchurch Aero	14/11/2004	8:00	0	•	115	0	24	D		
25 Unristchurch Aero	15/11/2004	8:00	0	-	117	0	24	U		
26 Christchurch Aero	16/11/2004	8:00	7.2	-	111.6	0	24	D		
27 Christchurch Aero	17/11/2004	8:00	0	-	113.8	0	24	D		
28 Christchurch Aero	18/11/2004	8:00	0	-	115.9	0	24	U		
29 Christchurch Aero	19/11/2004	8:00	U	-	117.8	U	24	D		
30 Christehurch Aero	20/11/2004	8:00	U	-	119.6	0	24	D		
K () N wgenf.genform1_	proc /					•				•
ê									0	Unknown Zone 🛒

Note the extra information, such as the details of the station and some calculated data such as Deficit and Runoff. The period of 24 means the data are a 24 hour period.

The date time means the 24hrs up to that time, in this case 7.2mm of rain fall between 8am NZST on the 15th November and 8am on the 16th November.

Because I chose to sort by station, then date, the Kyle St data are below the Airport data.

What wind data are available for North Canterbury?

How do I find what wind data summaries are available for North Canterbury, in particular is there anything near Cust?

There are a number of ways to this. The easiest is to see if there is a station at Cust, and if so, is there any wind data.

ome to the Clir . 8 × 1 111 → - 🎱 🗗 🖄 🥘 Search 📾 Favorites 🛞 Media 🧭 🔂 - 🎒 🐼 🖳 ▼ @Go Links Address 🥘 http://diflo-n wa.niwa.co.nz/ The National NIWA. **Climate Database** General CliFlo Info CliFlo Links atabase Query Form About CliFlo low to Make a Query CliFlo is the web system that provides ac (Reefton) for the purpose of evaluating thi nal Clin Login | Logout View recent news tes Applying for a Subsc This system returns raw data and statistical sum include about eighty different types of monthly an output and an example of statistical output Application Form (pdf) New User Info The database includes about 6500 stations from 1850 to the present mated Queries - Cur ation Details Context-sensitive **help** is available on many topics by clicking on a help link or a help icon 😨 her Li National Clim Prediction CliFlo Subscriptions ate Centre for M To access more than the free demo you must have a su **Climate Now** Climate and W See more information about a subse form in Adobe Acrobat format. nate Update National Centre for Water Re ire you have read and understood NIWA Terms and Co WA Terms and Conditions) javascript:popupwindow('/pls/niwp/wstn.get_stn_nodt_pw') 🗮 Local intranet

On the main Cliflo home page select Station Details

The following window will pop up.



In this window click in the dot beside **Station Name** to select that option and type in Cust.

Click on the **Get Station(s)** button to see if there are any stations with Cust in the name.

In this case the response was no rows, meaning that there is no station on CLIDB with the string Cust in the station name.

The above method is the best way to approach CLIFLO if you have a specific place in mind. (Note that most stations will have the nearest Town name in the station name so as to give a geographic location)

Now I want to see what may be available near to Cust.

If I were to simply select a region in the window above, I would get every single station in a very large area because there is some large overlaps between regions. So I need to refine the search more as it is only wind I am looking for.

Login, as in the rainfall example and go to the **Database Query Form** and **Remove** All Datatypes.

Click on **select datatype(s)** to get the following window.



calculated from observations.

This brings up the following window.

In this case I am looking for long term summary data rather than individual daily or hourly observations, so I need to view statistics.

In this window there are two statistic options, **Combined statistics calculated from observations** and **Statistics calculated from observations**.

The difference is that the combined statistics will give a tablular output with the months across the page with an annual value, and a new line for each year. Statistics will simply give a column of all the monthly values.

In this case I want to see a table so will select **Combined statistics**



Very basically Normals are a 30 year mean. See the **Help** section for an exact description of Normals. Note "Normals" are not available to non-NIWA users.

In this case I am after **Monthly & Annual Statistics** so select this option.

The following window will open with a large range of options.



As I am only after wind I will choose this option, but multiple options can be chosen at the same time.

Selecting **Wind** then brings down a pop down menu to expand on the option available.

🗿 Datatype Se	lection - Micros	oft Internet Explorer		- 🗆 ×	
Datatyp	e Selecti	on <u>c</u>	lose window H		
 Click main category to find different datatypes. Note: The main selection categories are mutually exclusive i.e. you can only select datatypes from the database query form before selecting a new category e.g. moving between "Land Stations" and "Combined Statistics". Select a (yellow) datatype. Datatype will be automatically added to your database query form. I. tems labeled "NA" are not yet available or not accessable. Some datatypes may not be displayed if you do not have the appropriate access rights. 					
Combined sta	tistics calculat	ed from observations:			
Monthly & /	Annual Normals	Monthly and annual norm	als combined in one ta	able.	
Monthly & /	Annual Statistics	Monthly and annual statis	stics combined in one t	table.	
 Sunshi Clouds Weather Pressu Wind Mean of Highes Mean v 	ne and Radiation re re ally wind run (km t daily wind run (k vind speed (m/s)) m)	☐ (15) ☐ (18) ☐ (33) Add		

Select the options required.

In this case I will select both Mean daily wind run (km) and Mean wind speed (m/s) then click on the Add button

This updates the Database Query Form. The Datatype Selection Form needs to

be closed.

🖉 Database Query Form - Microsoft Internet Explorer	
🖙 Back 🔹 🤿 🖉 🖉 🖓 Search 🕋 Favorites 🛞 Media 🎯 🖏 🔹 🎒 💽	2
Address 🕘 http://cliflo-niwa.niwa.co.nz/pls/niwp/wgenf.genform1	✓ ^{(→} Go Links ^w)
The National Climate Database	Taiharo Nakarangi help home subscription query General Help Home Subscription Info Query Help
Database Query Update settings Preview Seno	I Query Ø Your subscription details: username=aharper
select datatype(s)	Remove All Datatypes
Selected datatype(s): Specify options:	Remove datatype:
Monthly/Annual Statistics (codes)	8
2. Location choose station(s) (based on "updated" datatypes above) Station agent number(s): 3. Date(time	last used station(s) 💌 Manage 🕢
0	last used date 💌 Manage 👔
Start date (yyyy):	2003
End date (yyyy):	2004
4. Format	
A Done	last used format ▼ Manage V _

The Datatype section has now been updated with monthly/annual statistics codes 15 and 33.

Now I can search for stations with these datatypes.

Click on the **choose station(s)** button to get to the following window.

Choose Stations - Microsoft Internet Ex	xplorer
Find Stations	close window help
Use this form for station searches based on the <u>database query form)</u> . For searches with no the links from the <u>CliFlo Home</u> .	e selected datatypes (displayed on the dependencies on the datatype use
Options 🕐	
Combine datatypes when searching (Boo for stations by:	All datatypes must exist at station lean AND) Any datatype may exist at station lean OR)
Find station using: 🕐	
• Station Name: (Pattern) e.g. Wellington	rangiora
O Retwork Number (Pattern) e.g. E14387	
O Agent Number (Number) e.g. 3445	
C Region:	Select Region
C Lat/Long: based on circle with radius (km)	lat long
Station Status:	All
File download option:	HTML Table
Get Station(s) Reset To Default Va	ilues

🚰 Choose Stations - Microsoft Internet Explorer	- 🗆 ×
Find Stations	w help
Use this form for station searches based on the selected datatypes (alspie <u>database query form</u>). For searches with no dependencies on the datat the links from the <u>CliFlo Home</u> .	type use
Options 2	
C All datatypes must exist at a (Boolean AND) (Boolean AND) (C Any datatype may exist at a (Boolean OR)	station
Find station using: 12	_
Station warnet (Pattern) e.g. Weinington	
E14387	
O Agent Number (Number) e.g. 3445	
C Region: Select Region 💌	
Lat/Long: based on circle with radius -43.3 172.4 (km) 15	
Station Status: All	
File download option: HTML Table	_
Get Station(s) Reset To Default Values	
	<u> </u>

This screen differs from the earlier search of station details because now one or more data types have been selected an option to base the search on **All** or **Any** data types is available.

In this case because I am still unsure what data is available I will select **Any datatype may exisit at station.**

If the latitude and longitude of the area is known this is the best way to search. For example I can see from a large scale map that Cust is approximately at 43 deg 18' South and 172 deg 26'E. (Note that a map interface is being built into CLIFLO but is not available yet). Change the minutes into decimal degrees by dividing the minutes by 60 e.g 18/60 = 0.3.

Click on the dot beside **LatLong** to select that option and enter -43.3 and 172.4 as fairly coarse coordinates into the fields. If more accurate coordinates are known use these. Enter in a suitable radius, say 15 (without the km).

(Note that the other way to do this is to use the Region option but I'll finish this example first)

Click on the Get Station(s) button and a list of stations is produced.

In this list there are only two stations, ordered by distance from the coordinates entered.

🗯 Stal	tion List	- Microso	ft Inter	net Explore	r					_ 🗆 ×	
Eile	<u>E</u> dit ⊻ie	ew F <u>a</u> vor	rites <u>I</u>	ools <u>H</u> elp						-	
🔶 Bac	:k - 🔿	- 🛞 🔮	1 🖓	Q Search	🗼 Favorites	Media	3 B- 4) 🛇 🖉	2		
Addres:	s 🙆 http	p://cliflo-niv	va.niwa.	co.nz/pls/niw	p/wstn.get_str	?ccomb_dt=c	or&cstnstr=&cf	let=&c 💌	€∂ Go	Links »	
Station Listing Click on the "agent number" or name to obtain more information about the station. Click on the "network number" to obtain the types of data collected at the station. Click on the "lat/long" to start a search for stations within a particular radius. For searches with no dependendicies on the datatypes use the links from the <u>CliFlo Home</u> Stations can be added to the database query form by selecting the appropriate checkbox and the "Add Stns" button at the end of the listing.											
Select Selec	ted DataTy :ted Data	ypes were types are :	combine	d by: "ANY s	elected datat	ypes may ex	kist (OR'd)"				
Code	e Descrip	tion									
15	Mthly_St	ats: Mean I	Daily Win	id Run (Km) V	Vith No Directio	n					
33	Mthly_St	ats: Mean \	Mind Spe	eed (No Direc	tion)						
Back	to Find s	tations us	sing dat	atypes						_	
Selec	t Agent Numbe	Network r Number	Start	End	Percent Comple	te Name	Lat (dec deg	Long j) (dec deg	Dist 3) Km		
	4827	<u>H32352</u>	01-Oct-	1982 30-Apr-	1998100	Rangiora	<u>-43.311</u>	<u>172.571</u>	13.9		
	<u>4842</u>	<u>H32424</u>	01-Jun-	1969 30-Apr-	1978 60	Eyrewell Fo	orest -43.397	<u>172.278</u>	14.6		
Add	Stns	ations in li Replace	st: 2 Stns	Check All	Toggle Se	election	Reset To [Default Valu	ies		

	anabin	cy for Agen	1. 402 1	muru	ison Inc	emier	CAPIOLEI					~	
<u>E</u> ile <u>E</u> dit	⊻iew	F <u>a</u> vorites	Tools	Help							1		
🖛 Back 👻	⇒ ~	8 🖉 🙆	3 Q:	Search	😹 Fav	orites	Media	3	B	4		»	
Address 🥘	http:/	/cliflo-niwa.ni	iwa.co.nz	/pls/niv	/p/wstn.d	lata_a	/ailibility?cAg	jent 💌	è	50	Links	>	
										_			
Data Availability for Agent: 4827													
<u>Station Details Sensor and Site History</u> Help on Data Augilability													
List of all co	odes, d	ata and perci	ent compl	ete for	this static	n							
Agent is: 48	327											_	
Station Nam	ie is: R	angiora											
Sorted by C	niber is Jode fr	s. nazatz reguency and	time										
		oquono) uno	turno.										
NetNo Fre	eq Cod	le Hr Start	End	Count	Percent	Code	Descriptio	n					
H32352 M	00	001965-01	1998-04	400	100	Mthly:	Total Rain						
H32352 M	01	001965-01	1998-04	399	100	Mthly:	Wet Days						
H32352 M	02	001965-01	1998-04	395	99	Mthly:	Mean Temp						
H32352 M	03	001965-01	1998-04	399	100	Mthly:	Mean Max T	emp					
H32352 M	04	001965-01	1998-04	396	99	Mthly:	Mean Min Te	emp					
H32352 M	05	001965-01	1998-04	394	99	Mthly:	Mean Grass	-Min					
H32352 M	06	001965-01	1998-04	393	98	Mthly:	Extr Max Te	mp					
H32352 M	07	001965-01	1998-04	392	98	Mthly:	Extr Min Ter	np					
H32352 M	08	001965-01	1998-04	388	97	Mthly:	Extr Grass-	Min					
H32352 M	10	001965-01	1998-04	388	97	Mthly:	Mean Earth	5cm					
H32352 M	11	001965-01	1998-04	397	99	Mthly:	Mean Earth	10cm					
H32352 M	12	001965-01	1998-04	386	97	Mthly:	Mean Earth	20cm					
H32352 M	13	001965-01	1998-04	400	100	Mthly:	Mean Earth	30cm					
H32352 M	14	001965-01	1998-04	399	100	Mthly:	Mean Earth	100cm					
H32352 M	15	001982-10	1998-04	187	100	Mthly:	Mean Dly W	ind Run	ı (Km)				
H32352 M	16	001971-01	1998-04	327	100	Mthly:	Mean Vp						
H32352 M	18	001982-10	1998-03	181	97	Mthly:	Extr Dly Win	id Run ((Km)				
H32352 M	21	001971-01	1991-12	251	100	Mthly:	Thunder Da	ys				•	
🔄 Done								Local in	ntranel	t		Ē	
					_							1	

As can be seen in this example the stations listed are all closed.

Further stations can be selected by increasing the radius.

It can be seen that there are wind data for Rangiora from October 1982 to April 1998.

By clicking on the network number for Rangiora, H322352 the catalogue of data can be seen for more detail.

In this output it can be seen that for the mean daily wind run the start date is October 1982, the end date is April 1998 and that the record is 100% complete (no missing data).

Note that there are no mean wind speed data.

As Eyrewell Forest is a similar distance away but in a different direction it is also worth a look.

However on clicking on **H32424** the output shows that there is mean wind speed data, but while it is for the period June 1969 to April 1978 there is only 60% of the data available.

Rangiora seems to be the best option for now, so close the Data Availability window, click in the **Select** box on the Rangiora line and click the **Replace Stns** button.

Close this window and return to the **Database Query Form** and make the required changes to the Date/Time and Format fields. Click the **Send Query** button (or the **Preview** button to view a preview of the data). The output is then displayed in Excel ready for working with.

😹 h	🗿 http://cliflo-niwa.niwa.co.nz/pls/niwp/wgenf.genform1_proc - Microsoft Internet Explorer 📃 😰 🔀														
File	File Edit View Insert Format Tools Data Go To Favorites Help														
4	Back 💌 🔿	- 🔊 🖻	Al Alsea	rch 🖾 Eav	vorites 🕋 N	Aedia 🔗	兩 艮,4								
Add															.o Links **
2	A	B Agent Nun	- U Notwork N	U Lotitudo (d	E	F Height (m)	G Deen Dree	Ohaanina	Authoritu	J	К	L	IVI	N	
2	Name Dongioro	Agent Nun 4907	H33353	Latitude (d	172 571	Height (m)	Posn_Prec	Eoroct Por	Authonty search Incti	tuto					
	Note: Posi	4027 tion procisi	n tynee ar	-40.011 a∵"W" = h	eed on wh	ole minutes	"T" = eeti	moted to te	nth minute	lule					
5	Note: Fusition precision types are: w = Dased on whole minutes, 1 = estimated to territri minute, G = derived from origine f "F" = error cases derived from origined f														
6	H = based	on GPS re	adings (NZ)	GD49).		r gridior,									
7															
8	Statistics	codes in th	is query are	c											
9	Code	Description	Units												
10	15	Mean Dail	Km												
11	33	Mean Win	M/Sec												
12	Note: Stati	istics calcu	lations are	based on L	.ocal Time.										
13	Monthly ex	dremes are	recorded o	n the Loca	I-Time day	of the mont	h.								
14	Annual ext	remes are	recorded in	the Local-	Time month	of the year	·.								
15	00	1.2													
10	Stats: Con	nbinea Maar	Children Child	1	E.L	h.d.a.u	0	h da u	l	lul	0	Car	0.4	blau	Dee
18	3tation //807	1097	5tats_000 15	Jan	reb	IVIAI	Ahi	iviay	Jun	Jui	Aug	Seh	130.0	160.6	157
19	4027	1983	15	- 170.5	- 144.8	- 157.5	- 138.9	- 167.3	- 100.8	- 115.6	- 115	- 152.8	147.8	161	159
20	4827	1984	15	172.8	154.2	127	119.2	98.6	82.7	122.7	175.6	158.8	175.8	179.4	170
21	4827	1985	15	179.6	161.7	145.7	116.3	113.4	88.6	120.4	140.4	154.7	165.7	165.5	160
22	4827	1986	15	147.3	166.6	116.1	115.2	92.5	134.4	132.4	142.1	116.1	154.9	163.8	154
23	4827	1987	15	173.1	170.1	150.6	120	118.7	91.1	119.1	97.5	156.9	156.5	153.9	169
24	4827	1988	15	175.6	166.6	130.8	110.5	88.8	119.5	124.9	134.2	125.5	163.6	169	186
25	4827	1989	15	166.4	164.3	141.9	97.6	113.6	112.9	101	117.7	129.5	155.6	166.8	173
26	4827	1990	15	170.9	151.4	135.5	117.5	109.6	107.9	103.7	120.5	110.6	134.3	149	188
27	4827	1991	15	181	146.6	153.8	116.9	80.5	95.5	91	145.4	119.8	153.8	146.1	140
28	4827	1992	15	153.7	142	135	112.8	113.8	73.4	94.2	144.4	134.3	134.8	138	172
29	4827	1993	15	142.5	134.7	129.2	101.9	97.3	110.4	70.5	103.8	136.3	134.5	127.6	128
30	4827	1994	15	142.4	119.8	121.4	93.1	90.9	90.1	97.2	99.5	121.5	116.3	162.5	130
31	4827	1995	15	141.2	124.6	144.4	112.7	74.3	78.4	97.7	105.2	129	133	123.3	161
32	4827	1996	15	151.1	121.1	104	95.8	/2.5	97.8	82.1	88.5	108.4	129.3	116.6	131
33	4827	1997	15	136.4	159	92.7	87.6	56.4	53	bJ.4	106.7	88.1	110.1	135.2	156
34	4827	1998	15	150.4	173.6	153.6	112.3	-	-	-	-	-	-	-	-
	wae	nf.genform	1_proc /						1						T T
۲		-								•				Unknown Zor	ie

Note also that wind run gives only a distance of wind run and no direction.

Another way to do this and give more options is to search by region.

Because Cust did not exist and the latitude and longitude are not known, click in the dot beside **Region** in the **Find** Stations window to select this option and in the drop down window select **Christchurch** then click on the **Get Station(s)** button.

Stat	ion List -	Microso	ft Internet E	xplorer				_ 0	×				
Eile E	<u>i</u> dit <u>V</u> ie	w F <u>a</u> voi	rites <u>T</u> ools	Help									
🖛 Back	< - ⇒	- 🔊 🛛	ിഷിയം	iearch 🕷 F	avorites 🤅	🕅 Media 👩 🗔 - 🚑	0 0 0						
Address													
Selected Datatypes are:													
Code Description 15 Mthly, Stats: Mean Daily Wind Run (Km) With No Direction													
33 Mthly Stats: Mean Wind Speed (No Direction)													
Paals t	o Find of	lationa uv	ing datations										
DACK	U FILIU SI		sing uatatype	15									
Select	Agent Number	Network r Number	Start	End	Percent Complete	Name	Lat (dec deg)	Long (dec dea)					
	17609	<u>H32416</u>	01-Sep-1999	31-Jan-2005	100	Darfield Ews	-43.496	172.15					
	<u>17610</u>	<u>H31463</u>	01-Jul-1999	31-Jan-2005	100	Snowdon Ews	-43.47	<u>171.672</u>					
	<u>24120</u>	H3256F	01-Nov-2002	31-Jan-2005	90	Christchurch, Kyle St Ews	-43.53074	172.60769					
	<u>17603</u>	<u>H32645</u>	01-Jul-1999	31-Jan-2005	90	Lincoln, Broadfield Ews	-43.62622	172.4704					
	<u>17244</u>	<u>H32364</u>	01-Mar-1999	31-Jan-2005	90	Rangiora Ews	-43.32858	<u>172.61114</u>					
	<u>4960</u>	<u>H33712</u>	01-Jan-1995	31-Jan-2005	90	Le Bons Bay Aws	-43.746	<u>173.119</u>					
	<u>11234</u>	<u>G22582</u>	01-May-1995	31-Jan-2005	90	Hanmer Forest Ews	-42.53433	172.85098					
	<u>4843</u>	<u>H32451</u>	01-Jan-1942	31-Jan-2005	80	Christchurch Aero	<u>-43.493</u>	<u>172.537</u>					
	<u>4764</u>	<u>H31883</u>	01-Nov-1949	31-Jan-2005	70	Winchmore Ews	-43.79346	<u>171.79512</u>					
	<u>4903</u>	<u>H32671</u>	01-Dec-1979	31-Jan-2005	20	Lyttelton Harbour	-43.608	<u>172.724</u>					
	<u>4651</u>	<u>H31172</u>	01-Apr-1967	31-Dec-2004	70	Craigieburn Forest	<u>-43.154</u>	<u>171.714</u>					
	<u>18503</u>	<u>H3256E</u>	01-Jul-2000	30-Sep-2000	100	Christchurch, English Park	-43.512	172.636	_				
-	400h	uphexh	01 Jon 1077	20 0 000 2000	100	Lincoln, Droadfield Edl	40 eno	470.400	_				
http:	//cliflo-niv	wa.niwa.co	.nz/pls/niwp/v	vstn.stn_deta	ils?cAgent=	17244 🗎	🗄 Local intr-	anet					

In this case there are 46 stations to choose from. This list is sorted by End date (the latest data available).

On searching through the list Rangiora EWS, Rangiora, Ashley Forest 1 and Eyrewell Forest all look promising. As we already looked at Rangiora and Eyrewell Forest in the earlier example we will only look at the other two.

Clicking on **H32364** for Rangiora EWS it can be seen

that there are a lot of wind statistics available, for example wind run, mean speed, maximum gust and direction etc. from 1999 to present.

Clicking on **H32252** Ashley Forest 1, there is wind run data available from 1980 to 1989.

As there are three stations that look good, click in the **Select** boxes for Rangiora EWS, Rangiora and Ashley Forest1 and click the **Replace Stns** button.

Close the window and get back to the Database Query Form. If necessary, make the required changes to the Date/Time and Format fields then **Send Query**. Note you may want to **Preview** the data first. This will save the current settings and provide the first row of data (as an example) and a count of the number of rows from each station without being charged any rows.

Be sure to ensure the start and end dates cover the period for each station.

The data sort order has a variety of options so choose the best for your needs. See below for the options chosen and then an example of the output. **Code/Date/Station** is sometimes useful for a quick comparison between stations for the same period. Try the variations to see what best suits.

🗳 Database Query Form - Microsoft Internet Explorer	
File Edit View Favorites Iools Help	- Alexandre - A
↔ Back + → + ③ 🗿 🖓 🕲 Search 📾 Favorites ④ Media 🔇 🖏 + 🎒 🐼	1 8
Address 💩 http://cliflo-niwa.niwa.co.nz/pls/niwp/wstn.update_stn_query?cstn=dummy&cstn=17	7244&cstn=4827&cstn=4818&Submit=Replace+Stns
select datatype(s)	Remove All Datatypes
Selected datatype(s): Specify options:	Remove datatype:
Monthly/Annual Statistics (codes) 2 15,33	6
2. Location	
choose station(s) (based on "updated" datatypes above)	last used station(s) 🗾 Manage 👔
Station agent number(s):	17244,4827,4818
3. Date/time	
0	last used date 💌 Manage 🕐
Start date (yyyy):	1980
End date (yyyy):	2005
4. Format	
Ø	last used format 💌 Manage 👔
File download option:	Excel File
Station Identifier:	Network Number 💌 🕐
Data Sort Order	Code/Date/Station V
Include reliabilities and origins:	Lincline Inclinia
Lindate settings Preview Send Query	
<u>CliFlo Home Login NIWA Home</u>	Contact: <u>cliffo@niwa.co.nz</u> <u>NMVA Terms and Conditions</u>
Cone	Local intranet

🙆 h	http://cliflo-niwa.niwa.co.nz/pls/niwp/wgenf.genform1_proc - Microsoft Internet Explorer														
File	File Edit View Insert Format Tools Data Go To Favorites Help														
4= E	⇔Back - → - 🙄 🗿 🚰 🕲 Search 📾 Favorites 🧐 Media 🎲 🛱 🖏 - 🎒 🕢 🖳														
Addr	address 🍯 http://cliflo-niwa.niwa.co.nz/pls/niwp/wgenf.genform1_proc														
	A1														
	A	В	С	D	E	F	G	Н		J	K	L	М	N	0
1	Station inf	rmation:													
2	Name	Agent Nun	Network N	Latitude (d	Longitude	Height (m)	Posn_Prec	Observing.	Authority						
3	Ashley For	4818	H32252	-43.245	172.59	107	G	Forestry C	ri						
4	Rangiora	4827	H32352	-43.311	172.571	46	G	Forest Res	earch Instit	tute					
5	Rangiora E	17244	H32364	-43.3286	172.6111	23	Н	Niwa							
6	Note: Posit	tion precisi	on types ar	e: "W" = b:	ased on wh	ole minutes	s, "T" = esti	mated to te	nth minute						
7	G = derived	d from gridn	ef, "E" = er	ror cases i	derived from	n gridref,									
8	H = based	on GPS re	adings (NZC	GD49).											
9															
10	Statistics of	codes in thi	is query are	:											
11	Code	Description	Units												
12	15	Mean Daily	Km												
13	33	Mean Win	M/Sec												
14	Note: Stati	stics calcu	lations are l	based on L	ocal Time.										
15	Monthly ex	tremes are	recorded o	n the Loca	I-Time day	of the mont	:h.								
16	Annual ext	remes are	recorded in	the Local-	lime month	of the year	r.								
17															
18	Stats: Com	nbinea			F 1						0	0	<u>.</u>	N	D
19	Station	Year 4000	Stats_Cod	Jan	rep	Mar	Apr	may	Jun	JUI	Aug	ъер	UCT	INOV OUT	Dec
20	H32252	1900	15	-	- 057.7	- 220.4	-	- 100 C	- 105.0		- 400.0	- 224.0	269	247	-
21	H32252	1001	15	245.4	257.7	229.4	210.2	190.5	195.9	203.3 170.0	100.0	234.0	242.7	220.9	254
22	H32232 H33353	1002	10	200.0	209.2	210.2	203.4	210.3	191.3	179.0	203.1	210.9	120.0	207.2	157
23	H32352	1002	15	- 254 3	- 209.1	- 244 3	- 226.3	- 250 3	- 100.7	- 100 E	- 208.4	- 246.5	130.9	252.8	2/1
24	H32352	1983	15	204.0	144.8	157.5	138.9	167.3	100.8	115.6	200.4	152.8	147.8	202.0	159
20	H32252	1984	15	257.4	225.6	197.5	184	180.7	174.5	213.5	246.4	216.1	261.5	231.6	2/1
27	H32352	1984	15	172.8	154.2	100.0	119.2	A 8P	82.7	122.7	175.6	158.8	175.8	179.4	170
28	H32252	1985	15	243.3	222.9	203.5	191.7	187.7	175 /	194.5	202.2	216.2	217.5	195.4	198
29	H32352	1985	15	179.6	161.7	145.7	116.3	113.4	88.6	120.4	140.4	154.7	165.7	165.5	160
30	H32252	1986	15	199.3	217	179.1	190.3	175.4	257.7	196.5	193.5	175	199	212.1	212
31	H32352	1986	15	147.3	166.6	116.1	115.2	92.5	134.4	132.4	142.1	116.1	154 9	163.8	154
32	H32252	1987	15	232.1	236.9	-	-	196.4	153.8	178.5	148.3	209	225.6	193	218
33	H32352	1987	15	173.1	170.1	150.6	120	118.7	91.1	119.1	97.5	156.9	156.5	153.9	169
34	H32252	1988	15	204.9	210.4	195.1	163.4	150.7	173.4	198	191.9	180.2	254 5	208.8	246 -
4 4	> > wge	nf.genform	1_proc	201.0	2.0.4	100.1		100.1		1	101.0	100.2	204.0		<u>کا</u> آ ا
ē														Unknown Zor	ne