new norfolk

chokurdakh

upernavik

jamestown

alofi

cherskiy

wajid

northam

brejo da madre de deus

ushuaia

lasa

hasaki

almaznyy

tefe

nabire

cabo san lucas

barawe

yabelo

kapaa

iqaluit

albany

emerald

grindavik

upington

ancud

vardo

.

bluff

puerto ayora

huarmey

vostok

san francisco del mar

hermanus

sentyabrskiy

port elizabeth

tiksi

mehamn

georgetown

hilo

barrow

penzance

mataura

souillac

fowa

havoysund

saint-philippe

lompoc

kodiak

kaitangata

port alfred

atar

kokopo

yushu

wuhu

vilhena

rikitea

pacifica

punta arenas

nuuk

dawson creek

kingussie

mayumba

hualmay

amderma

provideniya

arraial do cabo

meulaboh

narsaq

taolanaro

kavieng

plettenberg bay

utrecht

thunder bay

butaritari

saldanha

hobart

ruatoria

ribeira grande

berlevag

grand gaube

cape town

tuatapere

bredasdorp

bengkulu

belushya guba

deputatskiy

faanui

valparaiso

sekoma

Ioreto

avarua

pergamino

mayya

raudeberg

broome

mar del plata

jalu

busselton

Iorengau

pangai

mount gambier

vaini

saint george

otavi

viligili

akhtanizovskaya

tezu

yellowknife

paralimni

sao filipe

esperance

torbay

kargasok

lavrentiya

atuona

palabuhanratu

srednekolymsk

jamame

najran

coihaique

yantal

qaanaaq

thompson

sur

port blair

kruisfontein

necochea

illoqqortoormiut

kenai

haines junction

guarda

blind river

xinqing

quatre cocos

evensk

sargatskoye

portland

nikolskoye

dabakala

bloemfontein

barentsburg

nam tha

husavik

arys

carnarvon

jabinyanah

hidalgotitlan

hithadhoo

kalaleh

mys shmidta

pervomayskoye

puerto colombia

tasiilaq

saint-francois

rioja

chuy

coquimbo

bilibino

coahuayana

tabuk

mildura

boundiali

bontang

attawapiskat

wencheng

baghdad

saint-augustin

kaiyuan

los llanos de aridane

tokmak

castro

east london

beringovskiy

keffi

guinope

tuktoyaktuk

stonewall

kaduqli

muros

gamba

te anau

norman wells

klaksvik

pangnirtung

milkovo

pevek

rumonge

mangrol

victoria

blagoyevo

puerto maldonado

bethel

zonalnoye

sola

amapa

hami

de-kastri

noumea

russell

gorno-chuyskiy

esna

yerbogachen

college

barcelos

amahai

honiara

nur

airai

goya

lebu

krasnoyarsk-66

saskylakh

kuantan

santa maria

katsuura

umzimvubu

mumford

kahului

jumla

chilakalurupet

sao raimundo nonato

hustopece

kayes

trincomalee

santa fe

inhambane

aripuana

xiantao

derbent

sinop

terney

puerto escondido

cidreira

los llanitos

muborak

marcona

garden city

quang ngai

dianopolis

tshane

yulara

tura

wolmaranstad

margate

luba

matamoros

prince george

pimentel

kupang

isangel

pisco

yablochnyy

sataua

saint-georges

sinnamary

oxford

oranjemund

tingi

goderich

khatanga

tsihombe

tarudant

bulawayo

bathsheba

khani

vila franca do campo

vao

bambous virieux

yeppoon

orlik

beipiao

dikson

katherine

sambava

lata

akureyri

selma

bay roberts

la asuncion

cabras

cayhagan

aklavik

dzhalil

codrington

houston

talnakh

faya

ostrovnoy

roma

alyangula

yangambi

cap-aux-meules

khairabad

port hueneme

luderitz

minbu

bongaree

mpulungu

mahebourg

saint anthony

nome

linguere

longyearbyen

cacoal

svetlyy

evanton

novikovo

san patricio

paliseul

ust-karsk

brusyliv

sao felix do xingu

calabozo

seybaplaya

itarema

kopavogur

palmas

conde

haikou

champerico

bosobolo

vangaindrano

saleaula

guerrero negro

laguna

kerteh

rorvik

nizhneyansk

kitimat

tigil

hofn

ponta do sol

biak

rolla

perth

tumannyy

ilulissat

yazykovo

redwood city

gat

muroran

praia

grand river south east

mocuba

puerto del rosario

dingle

opuwo

tchibanga

beyneu

preeceville

mitrofanovka

gladstone

port lavaca

bolkhov

maneadero

honghu

waipawa

worthing

nguiu

oktyabrskiy

winslow

kapit

tilichiki

kailua

altay

mukhen

kamenka

padang

jaramana

kingman

saint-louis

miaoli

pierre

acuna

meru

vanimo

nizhnyaya tavda

mancio lima

machali

longlac

moerai

port macquarie

moose factory

hihifo

ust-kamchatsk

pizarro

norvenich

clyde river

vaitupu

bara

mahon

nynashamn

sol-iletsk

marawi

lagoa

kedrovyy

kalmunai

ahmadpur

ahipara

batagay-alyta

peruibe

nantucket

ravar

kinablangan

dunedin

tuy hoa

minot

apac

samusu

san vicente

urubamba

vila velha

taunsa

severo-kurilsk

darhan

wad madani

shaunavon

leshukonskoye

yar-sale

callaway

petropavlovsk-kamchatskiy

broken hill

kanniyakumari

bubaque

auki

belyy yar

pontianak

tevaitoa

pacasmayo

port hardy

skjervoy

karasburg

guayaramerin

wajir

sheridan

boa vista

nikolsk

sayyan

morant bay

clonakilty

aykhal

paamiut

sobolevo

muroto

zabaykalsk

richards bay

chhatarpur

bargal

tupik

labuhan

lincoln

port lincoln

khorinsk

saint-raymond

ust-kuyga

la primavera

maloshuyka

las vegas

tabou

sisimiut

rhyl

olinda

kavaratti

idrinskoye

itigi

kodala

khandyga

hereford

la ronge

beni

grand centre

mahaicony

grass valley

dudinka

ub

rocha

sistranda

teahupoo

la oroya

elliot lake

uruzgan

predivinsk

sretensk

port-gentil

bonthe

twentynine palms

jahrom

la union

halifax

hambantota

ouesso

araouane

kuche

fortuna

burriana

neka

verkh-usugli

dharchula

pacific grove

zhigansk

adrar

illintsi

nemuro

half moon bay

ciudad bolivar

kapuskasing

palu

luanda

porbandar

banda aceh

egvekinot

mitsamiouli

skibbereen

tabory

neuquen

bastia

sulangan

kommunar

mirnyy

nokaneng

encantado

mtambile

terra roxa

yaqui

halalo

bandarbeyla

labutta

umm kaddadah

vagamo

ginir

cienaga de flores

rawson

alakurtti

scottsboro

tual

bukachacha

ituni

leningradskiy

port keats

high level

inndyr

lodja

port augusta

korla

baruun-urt

da nang

sakakah

kultuk

sumkino

talakan

mae hong son

paulista

el angel

turinskaya sloboda

oistins

tongren

la reforma

mamou

nata

vastervik

taicheng

suntar

haicheng

racine

luganville

huaiyin

nouadhibou

waterboro

cairns

saint-joseph

punta alta

clearwater

solwezi

brae

yunjinghong

gimli

varhaug

tukrah

belaya gora

boras

wanning

```
{
   "coord": {
        "lon": 147.06,
        "lat": -42.78
    "weather": [
       {
            "id": 803,
            "main": "Clouds",
            "description": "broken clouds",
            "icon": "04n"
    ],
    "base": "stations",
    "main": {
       "temp": 42.1,
        "pressure": 1008,
        "humidity": 56,
        "temp min": 39.99,
        "temp max": 44.6
    },
    "visibility": 10000,
    "wind": {
        "speed": 13.87,
        "deg": 310
    "clouds": {
       "all": 75
    "dt": 1563908267,
    "sys": {
        "type": 1,
        "id": 9545,
        "message": 0.0074,
        "country": "AU",
        "sunrise": 1563917505,
        "sunset": 1563951864
    "timezone": 36000,
    "id": 2155415,
   "name": "New Norfolk", "cod": 200
} {
    "coord": {
        "lon": 147.9,
        "lat": 70.62
    },
    "weather": [
            "id": 804,
            "main": "Clouds",
            "description": "overcast clouds",
            "icon": "04d"
        }
    ],
    "base": "stations",
    "main": {
       "temp": 51.28,
```

python_log

```
# IPython log file
# citi = cities
units = "imperial"
url = "http://api.openweathermap.org/data/2.5/weather?"
owm.utils.load_config
settings = {"units": units, "APPID": api_key}
query_url = f"{url}appid={api_key}&units={units}&q="
# set up lists to hold reponse info
weather_response = []
cityList = []
citNam = []
lat = []
temp = []
humi = []
eSea = []
eGnd = []
clouds = []
wind = []
code = []
# for citi in cities:
   weather_response = owm.find_city(citi, **settings)
#
   selection = ('id','coord.lat','coord.lon')
   data = weather_response(selection)
    cityList.append(data)
# Loop through the list of cities and perform a request for data on each
# for city in cities:
   response = requests.get(query_url + city).json()
#
    lat.append(response['coord']['lat'])
   temp.append(response['main']['temp'])
#
    cloud.append(response['clouds']['all'])
    wind.append(response['wind']['speed'])
# logger.disabled = True
# logger.disabled = False
# cnt=1
with open('output_data/data.json', 'w', encoding='utf-8') as f:
  get_ipython().run_line_magic('logon', '-o -q')
  for city in cities:
     response = requests.get(query_url + city).json()
     json.dump(response, f, ensure_ascii=False, indent=4)
     response1=response
     try:
       print(f"For the city named {(response1['name'])}, ID Number-{(response1['id'])}: LAT={(response1['coord']['lat'])} WIND:
```

```
python log
       response1=∏
       citNam.append(response['name']) #and citNam.append(cnt)
       code.append(response['id'])
       lat.append(response['coord']['lat'])
       temp.append(response['main']['temp max'])
       humi.append(response['main']['humidity'])
       clouds.append(response['clouds']['all'])
       wind.append(response['wind']['speed'])
       eSea.append(response['main']['sea_level'])
       eGnd.append(response['main']['grnd level'])
     except KeyError:
            print(f"The NAME is NO GOOD")
    print(f"The {code} information received is: {wind}")
    print(f"The latitude information received is: {lat}")
    print(f"The temperature information received is: {temp}")
    print(f"The cloud information received is: {cloud}")
    print(f"The wind information received is: {wind}")
    print(f"The {city} latitude information received is: {lat}")
    print(f"The {city} temperature information received is: {temp}")
    print(f"The {city} cloud information received is: {cloud}")
    print(f"The {city} wind information received is: {wind}")
## loop throught the list of units and append them to cityList list
# for citi in cities:
    query_url = f"{url}appid={api_key}&q={citi}"
    weather response = requests.get(query url)
    response= weather response.json()
    lat.append(response['coord']['lat'])
    temp.append(response['main']['temp'])
    cloud.append(response['clouds']['all'])
    wind.append(response['wind']['speed'])
    cityList.append(weather json)
    for city in cities:
    response = requests.get(query url + city).json()
    selection = ('name','id','coord.lat','coord.lon',"main.temp", 'main.temp max',"main.humidity", "wind.speed",'clouds.all')
print(var dic list())
print(var dic list())
```

#

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#

#

#

for I in Is:

print(len(l)) print(var_dic_list()) print(var_dic_list()) dictionary = {} dictionary={

ls=[citNam, code, lat, temp, humi, clouds, wind]

```
python_log fig1=plt.scatter(latitude, temperature, marker='.', facecolors="blue", edgecolors="blue")
# Set the upper and lower limits of our y axis
plt.ylim(0,120)
# Set the upper and lower limits of our x axis
plt.xlim(-80,100)
# Create a title, x label, and y label for our chart
plt.title("Max Temperature v Latitude")
plt.xlabel("Latitude")
plt.ylabel("Temperature (Degrees F)")
# Save an image of the chart and print to screen
# NOTE: If your plot shrinks after saving an image,
# update matplotlib to 2.2 or higher,
# or simply run the above cells again.
plt.savefig("output data/temp v Latitude.png")
plt.show()
print(var_dic_list())
print(var dic list())
fig = plt.figure()
fig1=plt.scatter(latitude, humidity, marker=".", facecolors="blue", edgecolors="blue")
# Set the upper and lower limits of our y axis
plt.ylim(0,105)
# Set the upper and lower limits of our x axis
plt.xlim(-80,100)
# Create a title, x label, and y label for our chart
plt.title("Humidity v Latitude")
plt.xlabel("Latitude")
plt.ylabel("Humidity (%)")
# Save an image of the chart and print to screen
# NOTE: If your plot shrinks after saving an image,
# update matplotlib to 2.2 or higher,
# or simply run the above cells again.
plt.savefig("output data/humidity v Latitude.png")
plt.show()
print(var_dic_list())
print(var_dic_list())
fig = plt.figure()
fig1=plt.scatter(latitude, cloudiness, marker=".", facecolors="blue", edgecolors="blue")
# Set the upper and lower limits of our y axis
plt.ylim(-5,105)
# Set the upper and lower limits of our x axis
plt.xlim(-80,100)
# Create a title, x label, and y label for our chart
plt.title("Cloudiness v Latitude")
plt.xlabel("Latitude")
plt.ylabel("Cloudiness (%)")
# Save an image of the chart and print to screen
# NOTE: If your plot shrinks after saving an image,
# update matplotlib to 2.2 or higher,
# or simply run the above cells again.
plt.savefig("output data/cloudiness v Latitude.png")
plt.show()
print(var_dic_list())
print(var_dic_list())
fig = plt.figure()
fig1=plt.scatter(latitude, wind_speed, marker=".", facecolors="blue", edgecolors="blue")
# Set the upper and lower limits of our years Page 3
# Set the upper and lower limits of our y axis
plt.ylim(0,40)
# Set the upper and lower limits of our x axis
plt.xlim(-80,100)
# Create a title, x label, and y label for our chart
plt.title("Wind Speed v Latitude")
```

se1['clouds']['all'])}")

City	ID Code I	_atitude	Temperature	Humidity	Cloudiness	Wind
New Norfolk	2155415	-42.78	•	•		
Chokurdakh	2126123	70.62				13.42
Upernavik	3418910	72.79				7.14
Jamestown	2069194	-33.21	50.92	96	98	6.58
Alofi	4036284	-19.06	66.2	88	7	1.12
Cherskiy	2126199	68.75	40.12	84	100	12.21
Wajid	50814	3.81	79.72	50	64	16.15
Northam	2064550	-31.65	48.2	93	75	2.24
Brejo da Madre de Deus	3404862	-8.14	77.2	56	58	12.62
Ushuaia	3833367	-54.81	35.6	74	75	29.97
Lasa	146639	34.92	80.6	88	0	4.7
Hasaki	2112802	35.73	73.4	100	75	2.24
Almaznyy	582447	48.03	80.6	44	0	6.71
Tefe	3661944	-3.35	78.8	94	40	3.36
Nabire	1634614	-3.36	68.2	99	100	2.44
Cabo San Lucas	3985710	22.89	90	83	90	18.34
Yabelo	326036	4.89	68.2	58	89	5.77
Kapaa	5848280	22.08	82.4	74	40	17.22
Iqaluit	5983720	63.75	42.8	81	20	5.82
Albany	5106834	42.65	79	68	75	3.36
Emerald	2167426	-23.53	50	81	5	3.36
Grindavik	3416888	63.84	59	67	40	10.29
Upington	945945	-28.46	59	41	0	17.22
Ancud	3899695	-41.87	50	57	40	4.7
Vardo	4372777	39.62	78.01	64	40	4.7
Bluff	2175403	-23.58	57.22	71	0	5.46
Puerto Ayora	3652764	-0.74	75.2	69	75	18.34
Huarmey	3939168	-10.07	62.26	86	100	17.38
Vostok	2013279	46.45	66.04	97	96	4.16
San Francisco del Mar	3524965	16.34	94.3	44	64	4.63
Hermanus	3366880	-34.42	50	96	83	18.01
Port Elizabeth	4501427	39.31	78.01	65	40	10.31
Tiksi	2015306	71.64	39.76	74	100	10.38
Mehamn	778707	71.03	66.76	61	19	2.64
Georgetown	3378644	6.8				11.41
Hilo	5855927	19.71	81	73		4.7
Barrow	3833859	-38.31	54.16			10.92
Penzance	2640377	50.12				8.05
Mataura	6201424	-46.19				
Souillac	3026644	45.6				
Fowa	2352175	8.92				
Havoysund	779622	71	62.6			8.05
Saint-Philippe	6138908	45.36				10.85
Lompoc	5367788	34.64				6.93
Kodiak	4407665	39.95				9.17
Kaitangata	2208248	-46.28		85		4
Port Alfred	964432	-33.59				
Atar	2381334	20.52	109.78	12	0	8.88

Kokopo	2093685	-4.34	70.36	96	100	1.97
Yushu	2033242	44.84	68.02	88	71	7.58
Wuhu	1791236	31.35	84.2	83	0	4.47
Vilhena	3924679	-12.74	87.8	38	0	8.05
Rikitea	4030556	-23.12	70	76	97	16.89
Pacifica	5380420	37.61	75.99	87	90	6.93
Punta Arenas	3874787	-53.16	39.2	69	75	8.05
Nuuk	3421319	64.17	46.4	81	75	20.8
Dawson Creek	5935804	55.76	71.6	73	1	2.24
Kingussie	2645409	57.08	80.6	61	20	8.05
Mayumba	2399001	-3.44	71.44	89	56	13.47
Hualmay	3939761	-11.1	61.36	87	100	19.93
Provideniya	4031574	64.42	44.62	96	100	3.31
Arraial do Cabo	3471451	-22.97	78.8	73	0	23.04
Meulaboh	1214488	4.14	84.04	69	84	4.47
Narsaq	3421719	60.91	59	58	40	11.41
Kavieng	2094342	-2.57	82.42	76	99	12.35
Plettenberg Bay	964712	-34.05	51.28	66	63	11.74
Utrecht	2745912	52.09	90	57	0	10.29
Thunder Bay	6166142	48.41	84.99	47	75	8.05
Butaritari	2110227	3.07	84.94	70	100	9.57
Saldanha	2737599	41.42	84.76	36	56	14.43
Hobart	2163355	-42.88	44.6	56	75	13.87
Ribeira Grande	3372707	38.52	73.4	94	75	16.11
Berlevag	780687	70.86	63.88	57	5	14.16
Grand Gaube	934479	-20.01	69.8	88	75	13.87
Cape Town	3369157	-33.93	55	76	75	13.87
Tuatapere	2180815	-46.13	34	98	0	9.17
Bredasdorp	1015776	-34.53	53.6	71	34	12.75
Deputatskiy	2028164	69.3	49.12	46	96	7.56
Faanui	4034551	-16.48	79.18	85	97	14.67
Valparaiso	4927537	41.47	82	36	40	4.7
Sekoma	933102	-24.51	60.82	14	0	9.13
Loreto	3438834	-23.27	76.48	56	94	5.64
Avarua	4035715	-21.21	75.2	60	4	13.87
Pergamino	3841490	-33.9	50	76	98	1.99
Mayya	2020121	61.74	42.8	70	0	4.47
Raudeberg	3146487	61.99	69.8	100	75	4.7
Broome	2656067	52.47	86	54	0	9.17
Mar del Plata	3863379	-46.43	45.52	50	0	13.42
Jalu	86049	29.03	88	30	0	22.19
Busselton	2075265	-33.64	57	67	100	9.84
Lorengau	2092164	-2.02	79.9	81	100	9.46
Pangai	4032369	-19.8	66.2	77	20	9.28
Mount Gambier	2156643	-37.83	42.8	87	75	8.05
Vaini	1273574	15.34	76.48	93	100	2.71
Saint George	262462	39.45	86	42	20	7.27
Otavi	3353934	-19.64	58.48	16	0	7.27 7.16
Akhtanizovskaya	583811	45.32	73.4	83	20	6.71
Annanizovskaya	303011	+∪.∪∠	73.4	03	20	0.7 1

Tezu	1254709	27.93	71.8	98	100	2.98
Yellowknife	6185377	62.45	77	41	20	11.41
Paralimni	734330	40.99	87.01	65	22	4.99
Sao Filipe	3374210	14.9	74.86	83		20.74
Esperance	2071860	-33.86	53.6	100	90	5.82
Torbay	6167817	47.66	68	72	90	10.29
Kargasok	1504382	59.06	57.76	91	100	1.79
Lavrentiya	4031637	65.58	43.9	96	100	4.36
Atuona	4020109	-9.8	79.36	77	4	17.18
Srednekolymsk	2121025	67.46	42.28	68	100	13.73
Jamame	56399	0.07	75.94	69	13	12.03
Najran	103630	17.54	93.2	14	20	6.93
Coihaique	3894426	-45.58	48.2	65	40	4.7
Yantal	2055868	56.85	61	57	100	1.79
Qaanaaq	3831208	77.48	43.18	62	60	5.59
Thompson	6165406	55.74	87.8	35	40	11.41
Sur	286245	22.57	78.82	82	0	7
Port Blair	1259385	11.67	84.22	80	93	22.68
Kruisfontein	986717	-34	52.72	70	58	9.4
Necochea	3430443	-38.55	54	41	0	1.99
Kenai	5866063	60.55	64.99	72	1	10.29
Haines Junction	5969025	60.75	50.2	91	100	4.68
Guarda	2738785	40.54	84.99	40	57	8.48
Blind River	5903851	46.19	71.6	60	1	5.82
Xinqing	2033667	48.28	63.16	98	100	2.24
Quatre Cocos	1106643	-20.21	69.8	88	75	13.87
Evensk	2125693	61.92	40.66	75	59	9.28
Sargatskoye	1493004	55.6	59.56	89	99	4.32
Portland	4975802	43.66	70	68	90	5.82
Nikolskoye	546105	59.7	72	49	20	3.18
Dabakala	2290609	8.36	77.92	86	35	4.52
Bloemfontein	1018725	-29.12	60.8	19	0	13.87
Husavik	5961417	50.56	84	31	3	3
Arys	1526168	42.43	86	20	0	6.71
Carnarvon	1014034	-30.97	41.74	68		37.36
Jabinyanah	2470260	35.03	86	37	0	5.82
Hidalgotitlan	3527113	17.78	89.6	62	75	6.93
Hithadhoo	1282256	-0.6	83.32	76	99	7.61
Kalaleh	129512	37.38	82.4	74	0	6.93
Pervomayskoye	1495256	57.07	53.62	81	1	5.32
Puerto Colombia	3671497	10.99	87.8	70	75	11.41
Tasiilaq	3424607	65.61	46.4	65	40	13.87
Saint-Francois	2980080	46.42	96.8	23	0	4.7
Rioja	3692863	-6.06	61.54	63	91	5.82
•		-33.69	56.5	81		
Chuy	3443061 3893629	-33.69 -29.95	55.4	58	100 20	14.63 9.17
Coquimbo Bilibino		-29.95 68.06		92	100	9.17 4.21
	2126682	18.62	31.84	92 75	75	
Coahuayana Tabuk	3981460 1684803	18.62 17.41	82.78 65.5	75 97	75 98	3.22 2.53
ıavun	1004003	17.41	00.5	91	90	۷.53

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N All alone	0457000	04.40	40.00	400	7.5	4 7
Mildura Boundiali	2157698	-34.18	46.99	100 88	75 58	4.7 5.59
	2290836 1648186	9.53	77.38 71.08			
Bontang		0.12		97	91	2.91
Wencheng	6972233	27.79	71.8	97	100	2.26
Baghdad	98182	33.3	93.2	16	0	8.05
Saint-Augustin	6138501	45.63	80.01	36	75 50	12.75
Kaiyuan	2036337	42.54	73.06	95	59	6.53
Los Llanos de Aridane	2514651	28.66	73.4	73	20	18.34
Tokmak	691469	47.26	68.02	72	73	4.79
Castro	3896218	-42.48	50	57	40	4.7
East London	1006984	-33.02	62.6	72	20	33.33
Beringovskiy	2126710	63.05	49.66	58	76	2.04
Keffi	2334652	8.85	78.8	74	20	4.7
Guinope	3609112	13.88	82.4	48	40	3.36
Tuktoyaktuk	6170031	69.44	51.8	81	75	14.99
Stonewall	6157355	50.13	84	39	40	3.36
Kaduqli	373141	11.01	78.64	66	53	3.58
Muros	3115824	42.77	79	61	20	5.82
Gamba	1281256	28.28	47.5	62	94	5.03
Te Anau	2181625	-45.41	40.66	81	0	0.31
Norman Wells	6089245	65.28	73.4	60	20	11.41
Klaksvik	2618795	62.23	55.4	100	90	16.11
Pangnirtung	6096551	66.15	44.6	93	40	9.17
Milkovo	727030	41.53	80.01	73	75	5.82
Pevek	2122090	69.7	30.22	96	100	12.68
Rumonge	423549	-3.97	65.14	69	6	2.55
Mangrol	1263751	25.33	96.1	46	100	8.37
Victoria	1733782	5.28	77	94	75	2.24
Blagoyevo	576093	63.37	58.12	91	44	3.83
Puerto Maldonado	3931470	-12.59	90.52	42	57	3.06
Bethel	5880568	60.79	59	77	90	9.04
Sola	151211	-3.17	70.54	32	23	3.06
Amapa	3603330	15.09	91.4	59	75	4.7
Hami	1529484	42.84	77.02	31	91	3.53
De-Kastri	2126018	51.48	53.62	99	100	5.28
Noumea	2139521	-22.28	55.4	82	0	2.24
Russell	4278471	38.9	84	30	1	6.24
Esna	675840	45.2	68	88	75	2.24
Yerbogachen	2012956	61.28	61.18	61	100	6.78
College		64.86	73	60	82	
•	5859699					1.21
Barcelos Amahai	3665098	-0.97	89.08	53	100	5.41
	1651591	-3.31	78.01	91	100	8.77
Honiara	2108502	-9.43	73.4	94	40	3.36
Nur	763513	52.67	64.78	82	5	5.84
Airai	1651810	-8.93	64.96	66	0	4.85
Goya	3433715	-29.14	50.74	92	100	11.83
Lebu	344979	8.96	59.2	86	54	3.04
Saskylakh	2017155	71.97	46.06	79	84	2.93
Kuantan	1735227	3.82	77	83	75	1.12

O and a Mania	0.400070	40.00	77	00	00	44.44
Santa Maria	3462672	-16.02	77	38	20	11.41
Katsuura	1865309	33.93	77	88	75 70	4.7
Mumford	2297810	5.26	75.4	84	70	7.47
Kahului	5847411	20.89	82.4	54	20	19.6
Jumla	1283285	29.28	56.14	98	100	1.39
Chilakalurupet	1274213	16.09	80.26	80	84	8.01
Hustopece	3074677	48.94	82.4	57	0	13.87
Kayes	2455518	14.44	96.8	47	40	9.17
Trincomalee	1226260	8.58	78.28	76	48	7.2
Santa Fe	3836277	-31.62	54	68	100	7
Inhambane	1045114	-23.87	62.26	67	0	10.96
Aripuana	3665202	-9.17	94.48	31	72	3.65
Xiantao	1790371	30.37	77.92	95	99	3.22
Derbent	566532	42.06	65.5	87	44	3.96
Sinop	739600	42.03	72.16	88	0	10.83
Terney	2015352	45.05	62.8	98	88	2.75
Puerto Escondido	3520994	15.86	86	66	75	5.82
Cidreira	3466165	-30.17	69.64	85	100	1.86
Los Llanitos	3659711	-4.38	78.8	41	75	14.99
Muborak	1216475	39.25	91.24	9	0	15.46
Garden City	5593814	43.62	87.01	42	1	2.8
Quang Ngai	1568770	15.12	71.26	94	25	3.49
Tshane	933726	-24.02	61.36	14	0	7.9
Yulara	6355222	-25.24	50	37	0	8.05
Tura	2014833	64.27	58.12	67	93	2.46
Margate	2158744	-43.03	44.6	56	75	13.87
Luba	1705460	17.32	75.4	93	100	3.13
Matamoros	3523466	25.87	93.2	83	90	19.46
Prince George	6113365	53.92	75	68	1	3.33
Pimentel	3389609	-3.7	88.18	48	40	6.71
Kupang	2057087	-10.16	72.7	71	42	8.86
Isangel	2136825	-19.55	64.4	82	75	6.93
Pisco	3932145	-13.71	71.6	30	0	11.41
Yablochnyy	2119640	47.17	64.4	93	75	6.71
Saint-Georges	6295855	46.12	75.99	55	68	1.99
Sinnamary	3380290	5.38	81.34	77	0	10.58
Oxford	4081914	33.61	81	83	90	11.41
Oranjemund	3354071	-28.55	56.5	81	53	15.26
Tingi	877384	-11.3	55.42	78	10	1.1
Goderich	5962442	43.74	75.99	55	0	11.99
Khatanga	2022572	71.98	46.24	64	83	8.75
Bulawayo	894701	-20.16	62.6	33	0	6.93
Bathsheba	3374083	13.22	82.4	88	40	12.75
Khani	610864	41.96	71.6	94	90	1.12
Vila Franca do Campo	3372472	37.72	71.6	94	75	12.75
Vao	588365	59.1	65.86	73	0	6.73
Bambous Virieux	1106677	-20.34	69.8	88	75	13.87
Yeppoon	2142316	-23.13	50	100	75	0.58
Orlik	3102488	53.95	69.01	93	75	5.82
O i iii	0102400	00.00	00.01	55	7.5	0.02

Beipiao	2038342	41.8	69.64	97	47	3.87
Dikson	1507390	73.51	34.72	90	5	2.95
Katherine	2068655	-14.47	50	57	0	9.17
Sambava	1056899	-14.27	62.26	83	86	2.8
Lata	1253628	30.78	43	93	38	0.76
Akureyri	2633274	65.68	53.6	71	90	13.87
Selma	4089114	32.41	82.4	78	88	4.7
Bay Roberts	5895424	47.58	68	72	90	10.29
La Asuncion	3856548	-26.05	45.52	34	1	8.01
Cabras	3670719	5.5	72	63	99	1.01
Cayhagan	1717550	9.67	83.14	72	100	5.7
Aklavik	5882953	68.22	62.6	72	75	4.7
Dzhalil	563681	55.02	57.94	92	0	4.07
Codrington	2160063	-28.95	55.99	93	0	10.29
Houston	4699066	29.76	84.99	66	90	14.99
Talnakh	1490256	69.49	57.2	87	0	17.9
Faya	110690	18.39	82.4	69	0	5.82
Ostrovnoy	556268	68.05	50.38	68	100	4.12
Rome	6539761	41.89	91.4	40	0	3.36
Alyangula	2079582	-13.85	60.8	87	18	3.36
Yangambi	203717	0.77	78.28	73	73	3.04
Cap-aux-Meules	5915327	47.38	68	82	75	5.82
Khairabad	1137160	36.84	94.3	8	0	9.91
Port Hueneme	5384339	34.15	86	64	1	6.93
Luderitz	3355672	-26.65	59	82	52	10.29
Minbu	1309289	20.18	75.4	86	100	3.38
Bongaree	2174933	-27.08	54	100	20	4.7
Mpulungu	175961	-8.77	60.28	41	1	4.14
Mahebourg	934322	-20.41	69.8	88	75	13.87
Saint Anthony	5606187	43.97	88	35	1	10.29
Nome	4732862	30.04	84	74	90	4.7
Longyearbyen	2729907	78.22	48.2	70	75	3.36
Cacoal	3925212	-11.43	94.84	29	26	4.72
Evanton	2649851	57.66	80.6	61	20	8.05
Novikovo	487928	51.15	64.96	79	98	2.35
San Patricio	3437029	-26.98	65.32	94	100	6.08
Paliseul	2789354	49.9	91	27	80	4.7
Ust-Karsk	2013942	52.71	47.86	97	6	5.26
Brusyliv	711382	50.28	68	59	90	8.95
Sao Felix do Xingu	3388847	-6.64	92.5	28	41	5.48
Calabozo	3647444	8.92	84.58	73	97	6.73
Seybaplaya	3516685	19.65	86	70	40	9.17
Itarema	3393692	-2.92	85.12	58	55	13.13
Kopavogur	3415212	64.11	59	67	40	10.29
Palmas	3474574	-10.18	89.6	25	20	8.05
Conde	3465713	-10.16	79	60	1	9.8
Haikou	1809078	20.04	79 77	100	0	9.o 1.81
		16.38	7 <i>7</i> 86		40	6.93
Champerico Bosobolo	3530097	4.19		55 89	73	
DOSONOIO	2316473	4.19	72.88	09	13	1.79

Vanasindrana	1051220	22.25	64.06	0.4	60	1.01
Vangaindrano	1054329	-23.35	61.36	84	60	1.01
Guerrero Negro	4021858	27.97	69.28	78 70	17	5.99
Laguna Rorvik	3581398	16.17	86 66.2	79 93	40 0	4.7
	3141310	64.86				3.36
Kitimat	5993072	54.02	66.2	59 82	75	5.82 4.21
Tigil Hofn	2120612	57.8	36.52		0	4.21 6.22
Ponta do Sol	2630299	64.25	40.84	94 46	100 81	7.45
Biak	3453439 1637001	-20.63 -0.91	73.6 56.14	46 87	100	7.45 5.64
Rolla	4406282	-0.91 37.95	79	67 44	100	8.05
			79 52		-	
Perth Ilulissat	2063523 3423146	-31.95 69.22	52 51.8	100 53	20 75	3.36 6.93
		54.3	61.36	78	75 27	2.66
Yazykovo	468486	37.49	82		5	2.00 9.17
Redwood City	5386834	37.49 14.69	100.4	68 65	0	10.29
Gat Muroran	2249901 2129101	42.32	62.8	94	100	6.85
Praia	3460954	-20.25	77	38	0	8.05
Mocuba	1024312	-20.25 -16.84	58.48	30 79	6	6.05 2.91
Puerto del Rosario	2512186	28.5	77	65	20	18.34
	1714733	20.5	75.04	89	99	2.86
Dingle		-18.06		32	0	
Opuwo	3354077		61 70.72	32 87		5.66
Tchibanga	2396253	-2.92 45.32		87 27	18	7.25 15.52
Beyneu	610298		88.54		68	6.35
Preeceville Mitrofonovice	6112862	51.95	71.98	69 61	93 91	3.67
Mitrofanovka	526083	49.97 -23.84	69.28 55.4	87		5.82
Gladstone Port Lavaca	2165478 4720067	-23.64 28.61	91	70	0 90	9.17
Bolkhov	575364	53.44	61.9	92	82	5.03
	1789137	29.82	77.92	92 95	88	4.88
Honghu Waipawa	2185329	-39.94	45	95 95	93	1.88
Worthing	2633521	-39.94 50.81	88	37	0	11.41
Oktyabrskiy	515873	55.61	64.4	88	75	4.47
Winslow	2633808	51.94	88	37	0	11.41
Kapit	1737185	2.02	72.16	98	100	0.54
Tilichiki	2120591	60.47	45.34	95	97	3.15
Kailua	5847486	21.39	82.99	83	75	11.41
Altay	1529651	47.83	47.32	77	33	1.97
Mukhen	2019718	48.19	58.48	97	100	1.37
Kamenka	618453	48.03	63	81	47	5.53
Padang	1633419	-0.92	80.62	79	100	4.97
Kingman	5301067	35.19	100.99	24	1	10.29
Saint-Louis	2246452	16.03	86	70	0	9.17
Miaoli	1671971	24.56	80.01	94	20	8.05
Pierre	5767918	44.37	84	50	1	12.75
Meru	186827	0.05	52.9	92	87	1.16
Vanimo	2084442	-2.67	80.44	77	100	5.97
Nizhnyaya Tavda	1497376	57.67	60.46	93	6	4.05
Moerai	4034188	-22.43	74.86	89	90	19.51
Port Macquarie	2152659	-31.43	44.01	70	0	2.24
. Sit macquaire	2.02000	51.70	77.01	, 0	U	

Moose Factory	6078372	51.26	55.4	76	90	4.7
Moose Factory Pizarro	3672086	4.95	75.94	84	100	9.95
Norvenich	2861801	50.8	93.2	29	40	6.93
Clyde River	5924351	70.47	51.8	81	40	12.75
Bara	2347758	10.41	80.44	66	56	3.2
Mahon	2965139	51.89	63	82	75	10.29
Nynashamn	2687636	58.9	72	73	0	6.93
Sol-Iletsk	491019	51.16	64.96	70	0	5.99
Marawi	1701054	8	75	92	100	5.99
Lagoa	2267254	37.14	82	83	0	9.17
Kedrovyy	1538641	56.17	51.8	100	40	3.02
Kalmunai	1242110	7.42	77.38	78	99	1.39
Ahmadpur	1279227	18.7	82.06	65	41	16.02
Ahipara	2194098	-35.17	45	100	33	12.48
Batagay-Alyta	2027042	67.8	50.02	46	19	4.41
Peruibe	3454061	-24.32	84.76	43	10	4.56
Nantucket	4944903	41.28	70	83	90	18.34
Ravar	118704	31.27	74.32	7	14	6.02
Kinablangan	1708743	7.69	71.98	89	100	3.2
Dunedin	2191562	-45.87	46	86	52	11.99
Tuy Hoa	1563281	13.08	77.92	74	11	6.22
Minot	5690532	48.23	81	39	1	8.05
Apac	235130	1.98	65.5	92	44	2.84
San Vicente	3660401	-0.59	78.8	83	40	13.87
Urubamba	3926438	-13.31	59	33	40	16.11
Vila Velha	6320062	-3.71	82.4	58	0	16.11
Taunsa	1163724	30.7	103.84	26	0	7.49
Severo-Kurilsk	2121385	50.68	45.88	91	99	2.3
Darhan	2031964	49.49	57.4	98	100	5.19
Shaunavon	6145425	49.65	80.8	51	35	17.78
Leshukonskoye	535839	64.9	59.74	80	40	3.6
Yar-Sale	1486321	66.83	51.46	69	78	11.32
Callaway	5024237	46.98	80.6	44	1	4.7
Petropavlovsk-Kamchatskiy	2122104	53.05	53.6	100	75	6.71
Broken Hill	2173911	-31.97	50	71	0	10.29
Kanniyakumari	1268008	8.08	79.36	78	68	22.5
Bubaque	2374583	11.28	79.54	83	92	12.41
Auki	2339937	12.18	81.52	66	62	4.61
Belyy Yar	1510377	53.6	59	87	46	4.47
Pontianak	1630789	-0.02	81.52	79	100	12.17
Tevaitoa	4033375	-16.78	78.82	82	98	16.13
Pacasmayo	3694178	-7.4	62.8	90	99	14.05
Port Hardy	6111862	50.7	62.6	72	40	8.05
Skjervoy	777682	70.03	64.4	82	0	5.82
Karasburg	3356343	-28.01	49.48	80	26	30.76
Guayaramerin	3915350	-10.82	93.2	44	0	6.93
Wajir	178443	1.75	86	40	0	8.05
Sheridan	5438542	39.65	87.01	36	20	3.11
Boa Vista	3664980	2.82	78.8	78	75	4.7

Nikolsk	521773	59.53	56.86	95	56	2.68
Sayyan	70979	15.17	73.6	58	71	2.68
Morant Bay	3489440	17.88	89.6	55	20	14.99
Clonakilty	2965402	51.62	63	82	75	10.29
Aykhal	2027296	65.95	68	37	97	4.47
Paamiut	3421193	61.99	40.48	95	100	4.32
Sobolevo	525426	54.43	61.54	93	98	5.99
Muroto	1856392	33.37	72.16	90	100	3.13
Zabaykalsk	2012780	49.64	52.72	89	55	9.37
Richards Bay	962367	-28.77	76.84	37	0	22.46
Chhatarpur	1274337	24.92	93.22	47	88	7.43
Tupik	2014836	54.43	46.6	94	2	4.07
Labuhan	1641899	-2.54	70	81	93	1.43
Lincoln	2644487	53.23	86	61	0	10.29
Port Lincoln	2063036	-34.72	57.94	76	7	16.13
Khorinsk	2022304	52.16	53.8	88	84	4.27
Saint-Raymond	6639619	46.89	78.01	53	75	6.93
Ust-Kuyga	2013921	70	58.66	55	73	4
La Primavera	3844421	-32.92	51.8	27	0	8.05
Las Vegas	5506956	36.17	100.99	25	1	7.45
Tabou	2281120	4.42	75.76	83	63	5.82
Sisimiut	3419842	66.94	43.9	81	0	13.94
Rhyl	2639409	53.32	86	48	0	5.82
Olinda	2154386	-37.84	46	86	17	5.82
Kavaratti	1267390	10.57	82.78	76	99	20.56
Idrinskoye	1505998	54.37	61.18	75	62	4.43
Itigi	158904	-5.7	64.06	30	36	4.5
Kodala	1266422	19.62	80.26	84	96	2.28
Khandyga	2022773	62.65	49.3	43	0	4.25
Hereford	2647074	52.06	86	37	20	4.7
La Ronge	6050066	55.1	82.4	45	20	10.29
Beni	219057	0.49	64.6	97	99	2.28
Grass Valley	5353775	39.22	93	37	1	7.65
Dudinka	1507116	69.41	57.2	87	0	17.9
Rocha	3440777	-34.48	53.08	75	100	12.03
Sistranda	3139597	63.73	64.4	82	75	4.7
Teahupoo	4033543	-17.83	80.6	74	20	16.11
La Oroya	3936952	-11.52	49.48	37	85	10.98
Elliot Lake	5947866	46.37	68	68	1	9.17
Uruzgan	1131462	32.93	65.86	27	0	2.46
Predivinsk	1494237	57.07	54.16	79	0	3.74
Sretensk	2016110	52.24	48.94	92	7	9.04
Port-Gentil	2396518	-0.72	75.2	88	20	9.17
Bonthe	2409914	7.53	74.5	91	100	13.11
Twentynine Palms	5404198	34.14	102.2	25	90	3.36
La Union	3593500	14.97	87.01	38	88	1.88
Halifax	6324729	44.65	72	73	90	2.24
Hambantota	1244926	6.12	80.98	78	100	16.06
Ouesso	2255564	1.61	73.6	86	62	2.06
J40000	2200004	1.01	75.0	00	02	2.00

A	0.40005.4	40.0	405.4	40	0	5.04
Araouane	2460954	18.9	105.1	18	0	5.01
Fortuna	5563839	40.6	77	77	20	13.87
Burriana	2520709	39.89	89.01	30	0	5.82
Neka	122397	36.65	78.8	83	20	2.24
Verkh-Usugli	2013459	52.7	47.32	95	1	3.22
Dharchula	1272864	29.85	57.58	94	87	0.45
Pacific Grove	5380437	36.62	87.01	72	75	8.05
Zhigansk	2012530	66.77	58.66	45	0	6.2
Adrar	2508813	27.87	109.4	10	0	11.41
Illintsi	707695	49.11	61.9	83	83	7.18
Nemuro	2128975	43.32	59.02	88	80	14.14
Half Moon Bay	5354943	37.46	81	68	5	9.17
Ciudad Bolivar	3645532	8.12	90.16	53	32	11.92
Kapuskasing	5989403	49.42	57.2	82	90	6.93
Palu	1633034	-0.9	72.7	93	71	4.07
Luanda	2240449	-8.83	71.6	83	3	5.82
Porbandar	1259395	21.64	83.86	85	93	18.79
Banda Aceh	1215502	5.56	83.68	73	97	8.1
Egvekinot	4031742	66.32	43.36	93	100	2.57
Mitsamiouli	921786	-11.38	75.2	73	20	12.75
Skibbereen	2961459	51.55	62.6	82	75	10.29
Tabory	3099842	53.89	64	88	88	4.52
Neuquen	3843123	-38.95	50	39	0	11.41
Bastia	3176217	44.6	91	74	0	3.36
Sulangan	1685422	11.14	81.7	75	88	6.64
Kommunar	545788	59.62	72	49	20	4.92
Mirnyy	502265	56.57	61.72	94	92	4.72
Nokaneng	933211	-19.66	64.42	19	0	2.82
Encantado	3464274	-29.24	69.01	96	100	2.17
Mtambile	152877	-5.38	77.2	66	10	25.21
Terra Roxa	3444997	-20.79	84.2	30	0	3.36
Yaqui	3979975	27.37	95	39	40	4.16
Bandarbeyla	64814	9.49	78.1	61	37	27.09
Umm Kaddadah	364933	13.6	93.94	29	27	8.95
Vagamo	3133053	61.88	63.16	74	78	1.74
Ginir	336454	7.14	60.28	97	66	4.63
Rawson	3839307	-43.3	48.94	44	0	14.09
Alakurtti	583472	66.96	68	58	100	1.81
Scottsboro	4088916	34.67	81	61	82	12.75
Tual	1623197	-5.67	76.84	85	100	18.16
Bukachacha	2026023	52.99	48.04	95	25	4.61
Leningradskiy	2123814	69.38	39.4	81	100	3.04
Port Keats	2063039	-14.25	66.4	31	0	12.21
High Level	5975004	58.52	75.2	60	90	4.7
Inndyr	3151056	67.03	61	82	75	8.05
Lodja	211647	-3.52	77.74	30	52	0.92
Port Augusta	2063056	-32.49	55.4	87	90	2.24
Baruun-Urt	2003030	-32.49 46.68	59.02	93	84	14.18
Kultuk	2032014	51.73	57.4	99	100	1.14
Randin	2021040	01.70	57.4	33	100	1.17

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Sumkino	1490655	58.11	62.44	58	13	4.41
Talakan	2015686	50.29	56.5	98	87	2.33
Mae Hong Son	1152222	19.3	69.82	98	100	1.63
Paulista	3392742	-6.6	83.68	45	79	9.22
El Angel	3658379	0.62	55.4	71	75	12.75
Turinskaya Sloboda	1488931	57.62	59.2	95	37	4.34
Oistins	3373652	13.07	82.4	88	40	12.75
Tongren	1792592	27.72	73.06	91	0	2.33
La Reforma	4000490	25.08	96.01	52	75	8.66
Mamou	2417833	10.37	72.34	93	100	7.54
Nata	933238	-20.21	62.44	28	0	7.58
Taicheng	1793700	22.25	82	87	86	1.99
Suntar	2015913	62.16	56.5	72	0	3.29
Haicheng	2037086	40.85	75.76	94	88	4.83
Racine	5268249	42.73	79	47	40	9.17
Luganville	2136150	-15.51	75.2	73	75	6.93
Huaiyin	1797873	33.59	81.7	83	100	9.33
Nouadhibou	2377457	20.93	75.2	64	0	16.11
Waterboro	4982218	43.54	69.01	77	90	5.82
Cairns	2172797	-16.92	70	77	75	9.17
Saint-Joseph	3037456	43.56	89.6	51	0	2.24
Punta Alta	3429886	-27.46	66.2	100	90	8.05
Clearwater	4151316	27.97	89.01	70	40	6.93
Solwezi	897045	-12.18	58.3	36	0	3.27
Brae	2654970	60.4	66.2	82	76	9.17
Gimli	5961417	50.63	84	31	0	3
Varhaug	3132644	58.61	69.01	77	20	9.17
Belaya Gora	2126785	68.54	51.82	44	100	12.95
Boras	2720501	57.72	68	77	0	10.29
Wanning	3220813	48.64	84.99	39	28	4.7







