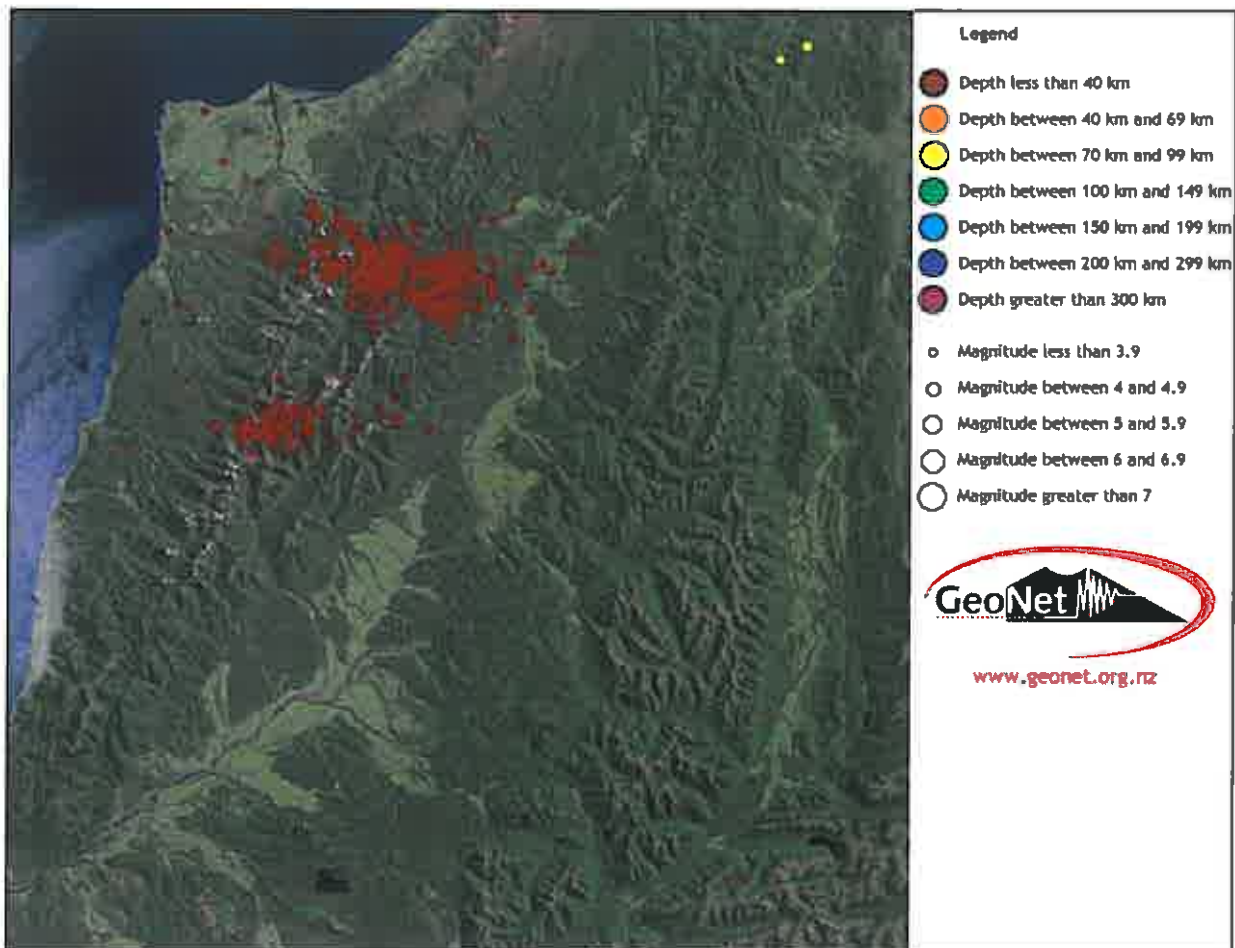


Westport Earthquakes

Jan 29th – February 28th 1991



Printout from GNS Quakesearch Database showing 'quake epicentres and size for one month post the initial Jan 29th earthquake

BULLER EARTHQUAKES

January 29 1991: 1.59 am (February 15 1991: 11.48pm)
7.01 am

Magnitude: 6 (5.8)
6.1

Epicentres: 41° 55' S 171° 44' E
41° 56' S 171° 50' E
(42° S 171° 30' E)

Depth of earthquakes: 8 km
14 km
12 km

No injuries

Areas affected: Westport, Lower Buller Gorge,
Waimangaroa, Cape Foulwind, Granity,
Ngakawau, Hector, Reefton, Greymouth and
Inangahua.

seems that the 80 metre long slip occurred in the same area affected by the 1968 Inangahua earthquake. A noticeable feature of roading damage in the region was a one metre subsidence in the Virgin Flat road near Cape Foulwind.

It is possible, that had the quakes been centred further south, major slips would have occurred in the rain-sodden Grey District. The Grey District Council's early estimate on the cost to repair roading damage (the combination of heavy rain and earthquake), was about \$50,000.

In the Buller District, toppled chimneys and items falling from shelves were the main reason for claims to the Earthquake & War Damage Commission, with chimneys accounting for more than half of the initial claims. Chimney damage in the district is more extensive than originally thought, with 40 out of the first 50 chimneys in Westport alone shown to be unsafe after being smoke

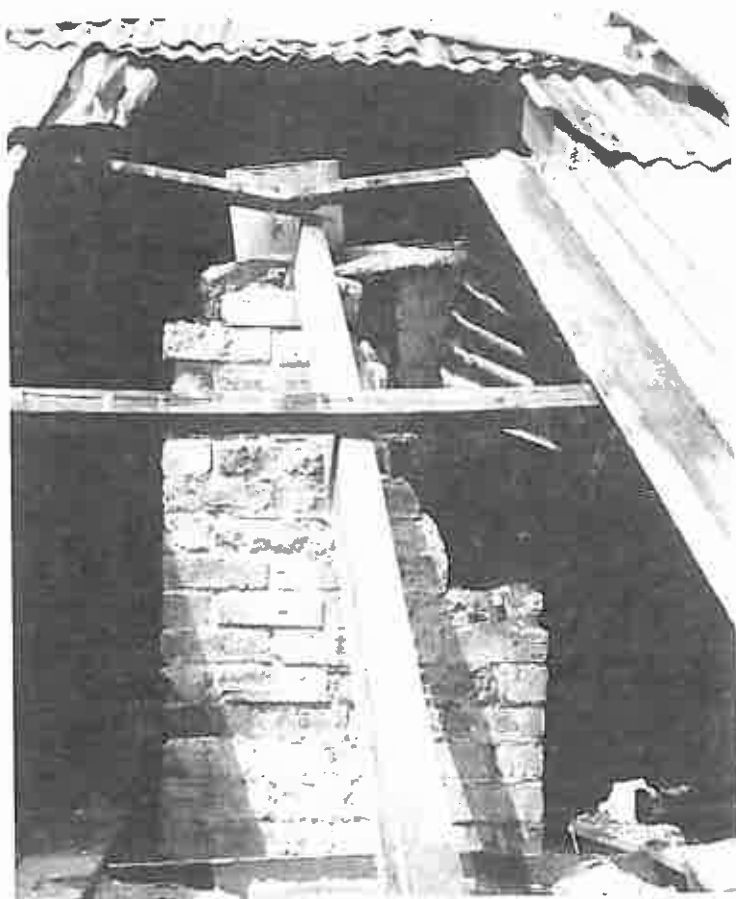
If, in the future, you are involved in a civil defence exercise for which the main scenario is a flood, don't be surprised if the scenario suddenly introduces an earthquake (or two) 4 hours after the peak of the flood. This is what happened for real on the morning of January 29.

Two earthquakes (magnitude 6 and 6.1 and relatively shallow at 8km and 14 km depth), rocked the Buller District at 1.59am and 7.01am. They were felt in Christchurch, parts of Wellington and as far north as Wanganui.

These earthquakes, located about 120km north of the flooding centre, caused a number of slips on main West Coast routes. State Highway 6 near Tiroroa, in the lower Buller Gorge, was blocked for approximately 12 hours by a 80 metre long slip. State Highway 6 was also blocked by slips south of Westport. It



DSIR geologists, Russ van Dissen and Gordon Saul, examine the Virgin Flats Road subsidence. (Photo: Courtesy, The News, Westport)



Chimney damage in Reefton. (Photo John Lovell) ...

tested. (Initial reports indicated more than 300 chimneys were damaged.) The Buller District Council is therefore introducing a very rigid inspection programme for all chimneys which will include both a structural and smoke test. And because the Buller District Council doesn't want a repeat of the 1968 emergency (Inangahua earthquake), when many repairs were not inspected or supervised, all chimney repairs will have to be done under full planning regulations.

Rural damage is also more extensive than originally thought, with productive farm land being affected by slips. With winter rainfall still to come, this land could become vulnerable to further slipping.

Lack of restraint

Two features of most New Zealand earthquakes is the mess left in shops when the shaking is over and the speed in which Kiwis grab the phone to either compare notes about the shaking or check on relatives and friends. Last year's earthquake in Dannevirke illustrated what happens in both situations and the Westport quakes reinforce these.

Unrestrained items in supermarkets and shops in Westport and as far away as Greymouth, ended up on the floor, resulting in a small cost to businesses in clean-

up time and stock loss. Shop owners and business managers would do well to look at ways in which they can protect their assets from earthquake damage.

For much of the day following the January 29 earthquakes, the telephone exchange at Westport tried to cope with the influx of calls from around New Zealand. It couldn't and people were left wondering why they couldn't get through. It is far better in emergencies such as this to wait for relatives or friends in the affected area to make contact instead of overloading the telephone system. If the news media report that no injuries or deaths have occurred, it is worth listening to them. The news media in New Zealand has a responsible attitude towards reporting emergencies (in spite of the increased competition) and still take time to confirm facts.

*Kara Lipski
Public Information Officer
Ministry of Civil Defence*

(Assistance in preparing this article kindly provided by Murray Lowry (DSIR) and Assistant Civil Defence Commissioner John Lovell.)

... and Waimanagaroa. Bill Byrne surveys the damage to his chimney. (Photo courtesy of The News, Westport.)

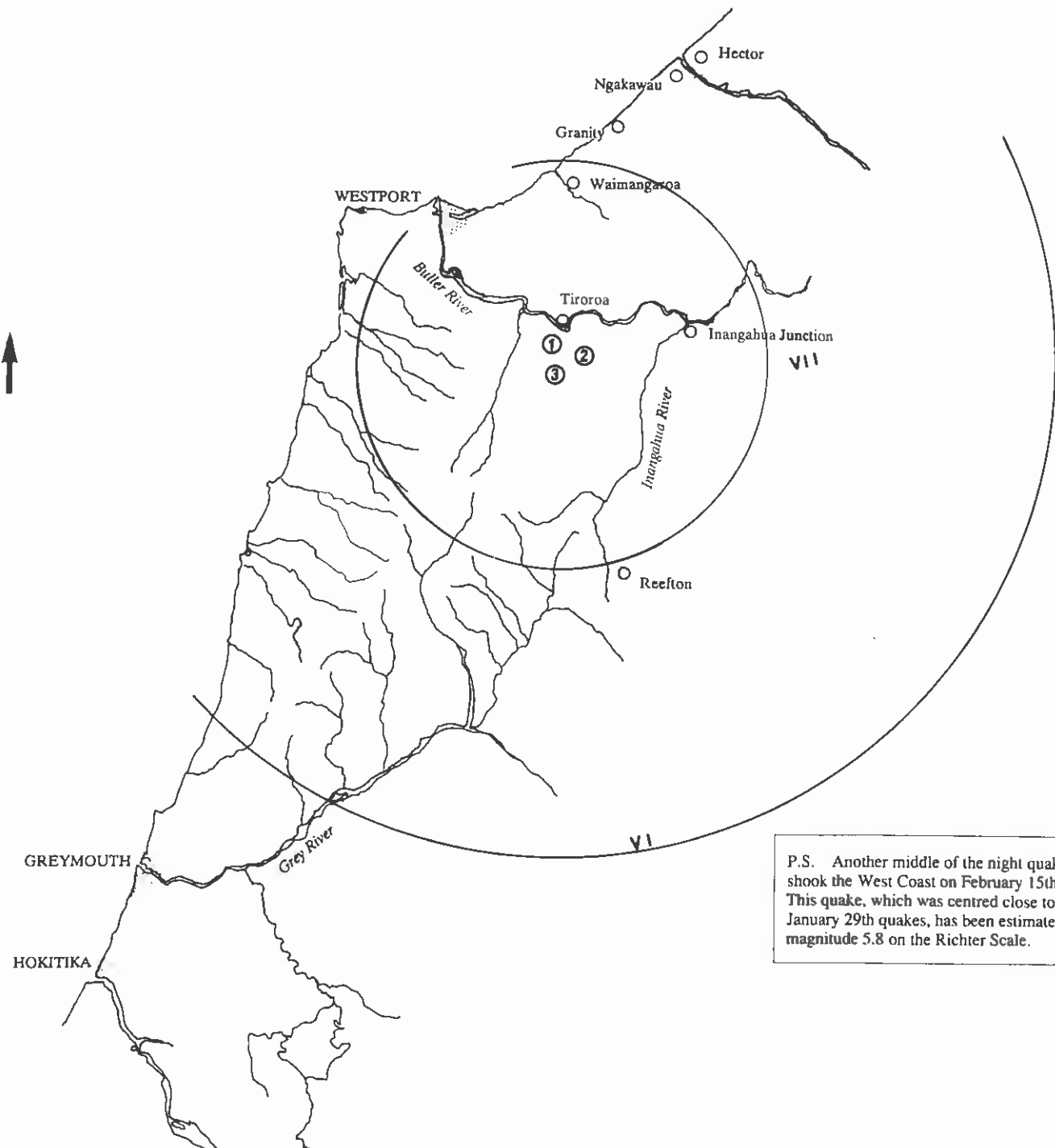


Telephones and emergencies

If you live away from the area affected by an emergency, sit tight and wait — resist the urge to use the telephone to find out what has happened. Listen to the radio instead.

If you are in the affected area, use the telephone only to summon help in a life-threatening situation.

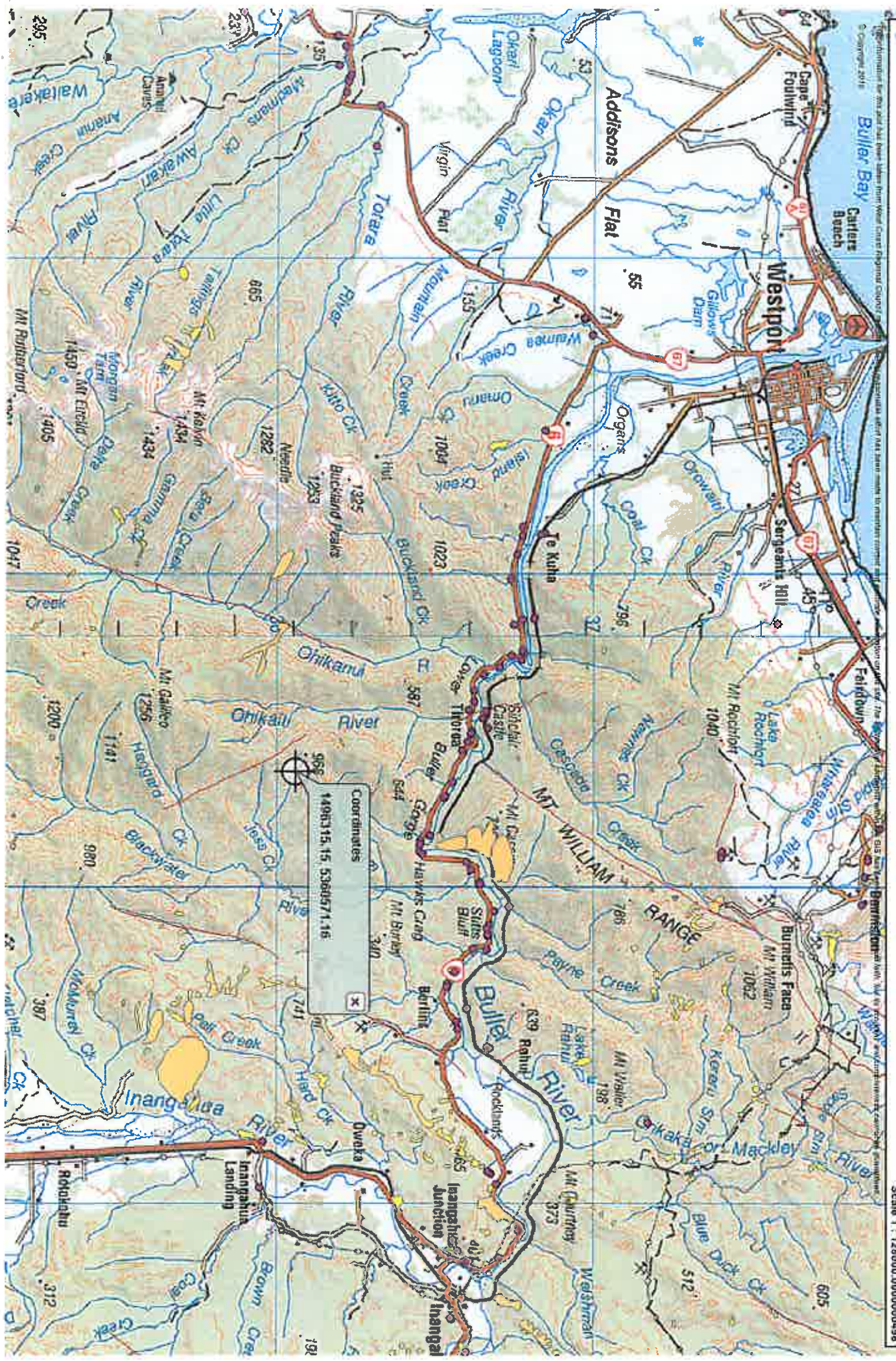
Damage costs to this stock at Howard's Camera and Gifts in Westport was about \$1,000. (Photo courtesy of The News, Westport.)



P.S. Another middle of the night quake shook the West Coast on February 15th. This quake, which was centred close to the January 29th quakes, has been estimated as magnitude 5.8 on the Richter Scale.



Epicentre Area 1991 Westport Earthquakes



Quake Damage Is Assessed

S.S. 25/1/1951

West Coast communities were today assessing the damage caused by two strong earthquakes this morning.

The quakes, both centred around Westport, brought memories of the disastrous 1968 Inangahua earthquake flooding back. They measured six or more on the Richter Scale and were described by Department of Scientific and Industrial Research staff in Wellington as "quite strong by New Zealand standards."

The first was centred almost directly under the town of Westport at 1.59am. It measured six on the scale and was 12km deep.

AFTERSHOCKS

Regular aftershocks continued until another large quake, measuring 6.1 on the Richter scale at 7am with further minor jolts throughout the morning.

The epicentre of the first quake was almost directly under Westport and the second was 15 kilometres

south-east of the town at a depth of 12 kilometres.

The earthquakes were felt over the West Coast, the top part of the South Island and as far north as Wanganui.

Power was cut in Westport for three-quarters of an hour from 2am after three 11,000 kv lines snapped near the corner of Peel and Romilly Sts.

A major slip at Tiroroa, 26km south-east of Westport, closed the Lower Buller Gorge from 2am. Works Consultancy staff were on the job when the second quake came but no further damage was caused.

The 80 metre-long slip is in the same area badly affected by the 1968 earthquake. The road was expected to be open by midday.

A number of smaller slips were reported in the Lower Buller Gorge.

CRACKS NOTICED

Cracks appeared in parts of State highway 6 in the Buller Gorge according to Works Consultancy Services which is today assessing

damage to roading.

Houses in the northern country areas of Waimangaroa, Granity, Ngakawau and Hector appeared to be worst affected with one jumping off its foundations and another near new house receiving structural damage.

Area civil defence controller, Mr Chris Coll, said no-one was reported injured in Buller, but a number of chimneys were broken, pipes burst and one shop, Hallensteins, had all its plate glass windows broken or cracked.

Westport's biggest gift-shop, Howard Camera's and Gifts, reported \$1000 worth of stock lost. Owner, Mr Gary Howard, said if the earthquake had been as strong as the 1968 one stock losses would have been ten times as worse.

A lot of stock fell off supermarket shelves, most likely during the first quake, with goods in glass jars and burst paint tins causing the most problems.

(Turn to Page 11)

FROM PAGE ONE. - G.S. 29/1/1991 (2)

Quakes Hit Coast

Supervalue and Keystores in Derby Street opened at the usual time while New World was closed until 9.30 and Keystores in Palmerston Street until 10am.

Buller Electric Power Board staff checked for damage this morning.

Engineer Mr Seng Tham said four consumers lost power when their overhead supply line came away from buildings.

The Westport Kindergarten resumed today although only 18 of the 40 children on the role attended. They were given earthquake drills and talks.

The Westport Playcentre postponed today's opening and the Waimangaroa School was closed today because the water and power were off. Most pupils would have been staying home anyway, said a staff member.

LESS DESTRUCTIVE

The quakes were less destructive in the Greymouth area but still strong enough to shake goods from shop shelves, break ornaments and topple chimneys in the area.

Greymouth's two supermarkets reported around \$200 worth of damage all up.

Manager of New World, Mr John Boyes managed to fill a large banana carton with damaged stock, including smashed sauce bottles and dented tins.

Staff at Supervalu spent almost 45 minutes cleaning up around \$150 worth of damage.

Manager, Mr Errol Boucher, believes the first quake shuffled stock to the edge of the shelves, and the second bought it down.

Both men said they were lucky the joists didn't cause more damage.

Coalcorp workers at the

Stockton opencast mine reported for work but were allowed to go home to be with their families. Deniston miners did not venture underground today but worked on the surface until the mine is checked out.

Stockton mine manager, Mr Stephen Bell, said the second quake occurred just after the miners reported for work.

NO PROBLEMS

"Some of the wives rang up worried and they decided to head home.

There were no problems with the mine though.

"But it's a fair drive from Westport and if there were any real problems I think they would have preferred to be at home."

It was work as usual, however, at the Strongman underground mine at Rapa-hoe. Mine manager, Mr Barry Smith, said two examining deputies were underground when the second quake struck and although it was felt underground there were no problems.

"It's a risk we always take. We can't predict earthquakes. If we were frightened of them we would never go underground."

Inquiries from anxious relatives and friends in other parts of New Zealand caused congestion to telephone toll lines to Westport. But the quake itself did not cause any damage to the telephone system according to Telecom South.

The Buller District Council was today assessing damage caused by the quake.

DAMAGED CHIMNEYS

Buller District manager, Mr Darryl Griffin, said he had received reports of damaged chimneys in Waimangaroa, Reefton and

Westport and some subsidence of the road to the town water supply. But the supply itself did not appear to have been affected by the quakes.

He said it was too early at this stage to assess the cost of the damage.

The Grey District Council had received no reports of any damage but was today checking that water mains were intact.

West Coast Area Health Board general manager, Mr Peter Kerridge, reported only minor damage to the region's four main hospital bases.

"In Westport a seal on a water storage tank ruptured, but that was easily fixed soon after the second quake, while the fire alarms went off in both shakes, causing minor disruption.

"At Reefton, the 80 foot concrete boiler chimney appears to have suffered some damage to its top. We've roped the area off and have arranged for a helicopter to check it over.

"A copper water tank also split, but that can be repaired.

"There was also damage to a water tank at Hokitika and a 14-inch stormwater drain under a road ruptured, but whether that was because of the quake or the rain is not certain at this stage.

"There were no problems whatsoever at Greymouth, so we came out of it extremely well," Mr Kerridge said.

The epicentre was 32 kilometres south-east of the magnitude seven Inangahua earthquake in 1968.

In 1962 there was a series of earthquakes near Westport with the largest having a magnitude of 5.9.

Westport suffered badly during the 1929 Murchison (or Buller) earthquake which measured 7.6 on the Richter scale.

Inangahua College Closed

Inangahua College at Reefton was closed to pupils today because of surface water in the area and fears of another earthquake.

All other secondary

schools in the region, due to start back today, were on schedule, although a spokesperson at Westland High expected some bus pupils might not be able to get through because of flooding and road blockages caused by heavy rain in the Hokitika and South Westland area.

There has been some confusion over starting dates, with primary schools given more leeway than their secondary counterparts, which must open on the fifth Tuesday of the new year.

As far as can be ascertained, in Greymouth,

Blaketown primary school was the only one open this week.

Principal, Mr John Bateman, said he had hoped students could get in some extra swimming, and it would also mean an earlier start to the Christmas holidays.

Other Greymouth schools, including the Intermediate, are expected to open next Monday.

Principal of Greymouth High School, Mr Des Hinch, said despite different start dates, mid-term holidays would be adjusted to fit in with most primary schools.

'Quakes Revive Memories

Nelson PA
Mariri Valley farmer Sylvia Badcock relived the devastating 1929 Murchison and 1968 Inangahua earthquakes during the double shock early yesterday.

"It immediately brought back all the old feelings of the 1929 one and the Inangahua one, which was rugged enough too."

Yesterday's tremors about 2am and 7am were "nowhere as bad" but still finished off Miss Badcock's "rather woebegone tank-stand."

She said the 2am shake was the worst of yesterday's earthquakes.

"That got me out of bed making tea and twitching. I read then, waiting for the aftershocks which never came. I finally got to sleep at 5.30am, to be rudely awakened at 7am by the second one."

AWOL Cats!

A number of cats in Buller have gone AWOL following Tuesday's big earthquakes.

Local veterinarian, Ms Stephanie Herron, said cats seemed more nervous than dogs about the quakes and some had gone into hiding.

"They're probably going to be a bit scary for the next couple of days," she said. "Some have been

hiding under houses and things like that since the earthquake and are reluctant to come out. But they should regain their normal confidence."

Ms Herron said cat owners should let their pets do their own thing.

She said dogs were often closer to their owners. If the owners could reassure them, they usually calmed down quickly.

GES 3/1/91

"The Day The Roof Caved In" On A Salesman!

A salesman staying in Revington's Hotel at Greymouth had a lucky escape from at least a serious drenching when about 1200 gallons of water brought the ceiling down on his bed after Tuesday's 7am earthquake.

Hotel proprietor, Mr. Ces Leopold, said today the man just had time to move some personal possessions from the room before the "roof caved in."

"He had noticed a bit of seepage through the ceiling and reported it to me. When I looked it was a bit more than seepage and I told him to remove his possessions, but the ceiling collapsed before he could get everything out," Mr Leopold said.

"A torrent of water, plus some sheets of roofing material, dropped straight into the room and the water gushed out into and along the hallway."

The cause of the problem was a 1200 gallon holding tank which had a pipe

shaken from it in the earthquake.

The water flowed from the tank and found its lowest point above the room, until, finally, its weight forced the pinex sheets from the ceiling joints.

Everything in the room was saturated beyond repair including sales equipment belonging to the man occupying the room.

"He had quite a big day in the bar as he could not work until more sales material arrived.

"I'd say he'll dine out on 'the day the roof caved in on me in Greymouth' for years," Mr Leopold quipped.

Large suction cleaners were used to mop up the hallway and room, but not before some of the water had seeped into downstairs rooms, including a hairdresser's.

The bed the salesman was sleeping in minutes before the roof caved in is shown with ceiling material draped across it where his head would have been, in the accompanying picture.



Quake Damage Substantial As Aftershocks Continue

Damage from yesterday's two strong earthquakes on the West Coast is expected to climb to hundreds of thousands of dollars.

Aftershocks continue to shake the Buller region, with 20 recorded since yesterday's two big jolts and residents and the Buller District Council are still assessing the damage caused.

The 200 or so claims already lodged with the Earthquake and War Damage Commission total around \$80,000 and, with a month in which to make claims, the cost is expected to escalate.

District Council manager, Mr Darryl Griffin, said repairing damage to roads and water supplies is likely to cost between \$50,000 and \$100,000.

"We plan to seek some Government assistance," he said. "If we had declared a civil defence emergency, we would have got a Government subsidy automatically. But because the damage was incurred without this happening, all we have to fall back on is any insurance we may have.

He said the council would be checking out its insurance policies before making a submission to Government for assistance.

ROADS SLUMPING

A number of roads in the area have suffered severe slumping. The Virgin Flat road, reduced by 69 metres as a result of the earthquake, has been closed.

The Darkies Terrace, Charleston Beach, Nile Bay and Wilsons Lead roads have also been damaged, although they are still passable to traffic.

Mr Griffin said the Demission track had also suffered

substantial damage as had the road to the Westport water works.

The Cape Foulwind water supply tank has slumped, although the supply was still operational and there had been water pipe damage in the township of Waimangaroa which appears to have borne the brunt of the quake's force.

Damage to 266 chimneys in the district had been reported to the council and there had been reports of foundation subsidence and burst water cylinders at two homes in the Waimangaroa area and structural damage to a house in Reefton.

There were also numerous reports of broken crockery, burst water pipes and stock damage in shops.

BROKEN, CRACKED

All Hallensteins' plate glass windows were either broken or cracked in the first quake and will cost around \$4000 to replace.

The windows are currently boarded up and will be replaced with more quake-proof glass tomorrow.

Manager, Mr Wayne Garing, said it was lucky the quake had occurred when it did as the impact of plate glass smashing into the street during business hours would most likely have created panic and possibly caused injury.

Earthquake and War Damage claims administrator, Ms Jess Gervin, said today half the claims received to date had been for the repair of damaged chimneys. She estimated the cost of replacing a chimney could be as high as between \$5000 and \$10,000.

Other claims had come from the Westport area and Waimangaroa although there had also been a few from Greymouth, Reefton, Murchison and Nelson.

IMPORTANT

Ms Gervin said it was important that people who had suffered damage to property in the quake were aware that they had a month in which to lodge claims. Inquiries could be directed to the commissioner on his free-phone number 0800-652-333.

(Turn to Page 2)

Quake Power In Buller

Wpt. News 30/6/99



Toppled chimneys, land slips and cracks in the road, plus considerable damage to retail stocks, were among the damage caused in the Buller area by Tuesday's two earthquakes.

These two Westport News photographs graphically illustrate the strength of the forces of nature — the quakes being the strongest felt since the massive Inangahua shake of May 1968.

Above, DSIR geologists from Wellington, Russ Van Dissen and Gordon Saul, examine damage to a section of the Virgin Flat Road.

They said the damage was not related to any particular faultline but was the result of sand movement beneath the road base after the shakes.

In the other photograph, Mr Bill Byrne, of Waimangaroa, examines damage to his home's chimney.

Mr Byrne's property suffered considerable damage. The hot water cylinder burst during the first jolt, which came at 2am, while the second, at 7am, brought down the chimney, overturned a TV set, threw kitchen goods to the ground, and upset a large cabinet.

Severe Aftershocks Likely In Buller

WES 3/1/91

Severe aftershocks up to magnitude five can still be expected in Buller over the next several weeks, according to the DSIR's deputy chief seismologist, Dr Martin Reyners.

He did not want to unduly alarm people, but said big earthquakes like Tuesday's 6 and 6.1 were normally followed by some severe aftershocks.

However, the good news is that the second earthquake will have released some of the strain and tremors might not reach as high as magnitude five.

Dr Reyners said the most forceful of the aftershocks, at 3.11 am yesterday, measured 4.2.

Two other large tremors later in the morning had a magnitude of between 3.7 and 4. Only quakes over magnitude 4 are measured precisely.

Dr Reyners said 20 tremors had been recorded since the second big earthquake at 7.01 on Tuesday morning up until noon yesterday. They had magnitudes of between 3 and 4.

Because of recent improvements in the National Seismograph Network, accurate

locations for the two main earthquakes were obtained soon after they occurred, said Dr Reyners.

He said they were located 15 km south-east of Westport, a few kilometres apart. "We located these from Wellington with some readings from the stations on Denniston," said Dr Reyners.

DIFFERENT QUAKES

"We have a field team in the area and they are surrounding the aftershocks and sorting out exactly how one earthquake related to the other.

"It's highly likely one triggered the other to have them occurring so closely in time. We want to know how the two faults which moved in each of these two earthquakes."

Dr Reyners said the different effects of the two earthquakes experienced by many people were more the result of the type rather than the slight variation in magnitude or location.

"The type of motion produced in Wellington from the two shocks was different. With the first shock the ground moved up first and in the second the ground moved down first.

"We call that the mechanism

of the earthquake and essentially it's telling us which way the fault moved — whether it moved horizontally one side past the other or a vertically one side moved up past the other.

"We know the two main shocks were a different mechanism and the mechanism often has quite a large bearing on the felt effects."

Dr Reyners said that would explain why shops lost goods from shelves on one side of their building in the first shock and from another side during the second.

BAD PERIOD

Staff at the Geology and Geophysics Centre at Kelburn, Wellington, said the two earthquakes were reminiscent of the bad period for strong earthquakes early last year.

On February 10 the first one of size six shook upper South Island and it was later found to have been centred 15 km northwest of Hanmer Springs.

Another of the same size shocked southern Hawkes Bay east of Dannevirke nine days later.

26, and southern Hawkes Bay was hit again on May 13 with the strongest shock of the year, 6.7.

DSIR staff said earthquakes of magnitude four to 4.9 were common, averaging 150 a year, while there were 10 to 20 measuring five to 5.9.

On the West Coast the largest recent earthquake occurred on May 24th, 1968, and was centred at Inangahua. Three people died as a result of the quake which measured seven and was felt by most of New Zealand.

There has not been a seven or larger magnitude land-based earthquake in New Zealand since then.

The most destructive earthquake in recent times was centred at Edgecumbe in the Eastern Bay of Plenty in 1987. Although measuring 6.3 on the Richter Scale, it had far more impact than the magnitude suggested because it was far shallower than the Inangahua or latest Buller quakes which were 12 km below the surface.

The Buller experienced a swarm of large earthquakes 1962, past.

It was next was inued eks.



DSIR keeps watch on Coast shocks

PA Wellington
No further earthquake aftershocks have been felt on the West Coast since yesterday, but DSIR monitoring teams will remain in the area, a Wellington seismologist, Mr Murray Lowry, said yesterday.

Three teams from the Department of Scientific and Industrial Research went to the Buller region on Wednesday to monitor the aftershocks, assess the damage and find the epicentres of the two earthquakes which struck the area early on Tuesday.

The seismologists, geologists and geophysicists are concentrating on the Westport and Inangahua areas where the two big earthquakes measuring about six on the Richter scale hit hardest.

Eleven portable instruments will remain there for about a week to measure aftershocks and help the scientists pinpoint the epicentre.

A DSIR spokesman said on Wednesday that he believed the quakes were centred close to Cape Foulwind which is 10km west of the mouth of the Buller River.

Aftershocks shook the region on Tuesday with 20 recorded. The last recorded at DSIR headquarters in Wellington was at 7.50am on Wednesday. It was expected aftershocks would continue for up to a week but Mr Lowry said yesterday none had been recorded.

"An aftershock would have to be about four before it would be picked up here," he added.

Mr Lowry was surprised people in the region were not picking up any further movement. A seismologist, Dr Helen

Anderson, who is in the region said yesterday she was not sure why there had not been any more aftershocks felt.

"Earthquakes are quite unpredictable," she said.

It was expected that aftershock movement — at least up to magnitude four or perhaps five — would have continued for some time, Dr Anderson said on Radio New Zealand's "Morning Report".

"They were part of a natural sequence of earthquakes which followed the main shock."

Damage from Tuesday's earthquakes was expected to cost hundreds of thousands of dollars.

About 200 claims totalling \$80,000 were reported lodged with the Earthquake and War Damage Commission on Wednesday.

Repairing damage to roads and water supplies was estimated to cost between \$50,000 and \$100,000.

The earthquakes and war damage claims administrator, Ms Jess Gerven, said on Wednesday that half the claims received had been for damaged chimneys. She estimated the cost of replacement could be as high as \$5000 to \$10,000.

Other claims had come from Westport and Waimangaroa although there had also been a few from Greymouth, Reefton, Murchison and Nelson.

The Grey District Council operations manager, Mr Mel Sutherland, said the combination of heavy rain on Monday and the two earthquakes cost the council close to \$50,000 in roading repairs.

P. T. O. → PIC.



Mr Richard Hefford, an engineering seismology technical officer with the DSIR, examines subsidence in Virgin Flat Road near the epicentre of the earthquake near Westport on Tuesday morning. The road was reopened yesterday.

—Photograph by JEROME MOSS



Westport's town clock, on Palmerston Street, stopped at the time of the first of the two earthquakes that shook the town on Tuesday morning.

CD head praises resilience of Hokitika flood victims

By PAT TAYLOR

Residents of houses inundated when the Hokitika River flooded earlier this week were described as "resilient" by the area civil defence controller, Mr Ray Breeze.

Mr Breeze has visited most of the 25 households to gauge the extent of the damage and to see how those were affected were standing up to their losses. All properties were insured, but several did not have any contents insurance.

"The people have accepted what has occurred and they are coping very well," he said.

Good use has been made of a hangar at the Hokitika airport for drying carpets and more space was being sought. Some of the residents were back in their homes, but the wet weather since was making drying very difficult and this meant that many of them would not get

back to normal for about two weeks.

Behind Hokitika, the milk production in the Kokatahi and Kowhitirangi areas has fallen about 5 per cent since the flood and was not expected to improve, the general manager of the Westland Co-operative Dairy Company, Mr John Roberts, said yesterday. Throughout the company's supply district production is down 8 per cent or 40,000 litres of milk a day.

He said that the Kokiri meat works had had to put on an extra day's killing to cope with the cull cows from the flood area as farmers reduced stock sizes because of pasture losses.

Coming on top of the production losses from the already poor weather in January, the flood had given farmers and the dairy company "quite a knock," he said. Almost no silage or hay had been collected.

In Buller, which is recovering from the effects of two strong earthquakes, residents have been told by the DSIR's deputy chief seismologist, Dr Martin Reyners, that aftershocks could be expected over the next several weeks.

Many Westport cats are reported to have packed their bags and left home as a result of the quakes. A Westport veterinarian, Ms Stephanie Herron, said that cats seemed more nervous than dogs about the quakes, and some had gone into hiding.

"They're probably going to be a bit scary for the next couple of days. They are hiding under houses and reluctant to come out," she said.

They should be left to regain their confidence.

Dogs, on the other hand, were often closer to their owners. If the owners could reassure them they usually calmed quickly.

Westport News 1/2/1991

WESTPORT QUAKES DESCRIBED AS UNIQUE

A DSIR field team has left Westport describing last week's big earthquakes and their aftermath as "unique".

Two seismologists have spent almost a week in Buller measuring aftershocks.

One of them, Dr Russell Robinson, said it was unusual to have two big earthquakes close together and also to have so few aftershocks.

"It sometimes occurs that you have two main shocks, but when you have two like that it doesn't mean that the aftershocks are going to be less than usual," he said.

"We have sort of a unique case here in Westport in that we had the two double main shocks and fewer than normal aftershocks, which is sort of unique in our experience so far."

The two main shocks measuring 6 and 6.1 on the Richter scale, hit at 2am and 7am on Tuesday, January 29.

Dr Robinson said the aftershocks had decreased ever since and most were

now too small to be felt.

When the seismologists left on Tuesday, their portable seismographs were recording between five and 10 aftershocks a day.

"We have no reason to expect things to hot up again," he said.

The instruments confirmed that the quakes were centred about 15 kilometres south east of Westport, in the Paparoa ranges.

Dr Robinson said that particular fault line did not appear to have caused problems before.

"In a way, it's a bit of a surprise."

DSIR geologists were unable to find any breaks on the earth's surface, indicating the quakes may have been centred more deeply than the original estimate of 12 kilometres.

"That would also, perhaps, tie in with the relatively small number of aftershocks," Dr Robinson said.

Hopefully, detailed analysis of the aftershocks would shed some light on the mechanisms of the two

earthquakes.

He said there was absolutely no correlation between the Westport quakes and an earthquake in Pakistan at the weekend. Neither was there any substance to a local theory that certain weather patterns made earthquakes more likely.

"If you think about it, the earthquakes initiate at least five kilometres underneath the surface. They're really quite ignorant of what's going on in the weather. It doesn't affect them one way or the other."

New Zealand has had more than its fair share of reasonably large earthquakes in recent years. Dr Robinson said this indicated an active period, but scientists did not understand the reason for it.

The seismologists are hoping they will have sufficient funding to analyse the data from Westport.

They have still not analysed data from earthquakes in Dannevirke last year because of lack of funding. They hope to receive funds from the

Earthquake and War Damage Commission.

Dr Robinson said thieves stole a large car battery from one of their portable seismographs in Buller. It was located in a remote area on the Four Mile Road near Charleston.

PHENOMENON

Buller people who thought they saw a flash of blue light accompanying the 2am earthquake may have witnessed a rare phenomenon.

There have been several reports of people seeing something like lightning at the same time as the quake.

A Westport man said he saw a flash of blue light to the north. At first, he thought the approaching earthquake was a thunderstorm.

A DSIR seismologist in Wellington, Dr Helen Anderson, said it was difficult to know whether what people saw was just the power going off or a rare phenomenon called "earthquake lights".

"This could have been earthquake lights," she

said. "At the moment we don't have any good substantial evidence to say what earthquake lights are and we don't really know what causes them, but we're delighted to get any evidence from people in the area to tell us about what they have seen in terms of earthquake lights."

These have previously been described as lights in the sky before and after earthquakes.

In 1976, they were reported before and after an earthquake in Italy which measured about six on the Richter scale.

"The thing you would think of is that it's some kind of magnetic phenomenon like the aurora," said Dr Anderson. "But certainly, it has not been well documented."

She said the DSIR would welcome any information from the public. People could contact the Seismological Observatory (ph Wellington 738211) and would be sent a form to fill in.

Govt gives funds for chimney inspections

The Government has responded promptly to the Buller District Council's plea for funds to check chimneys throughout the district for earthquake damage.

Mayor, Pat O'Dea, said the Prime Minister had made an interim allocation of funds. Mr O'Dea said this would enable his council to take on unemployed people immediately to begin smoke testing chimneys.

Council hopes to employ 18 people. Mr O'Dea said priority would be given to fireplaces required for water heating and cooking.

He expects cabinet to consider a total West Coast relief package, for the earthquakes and the Westland floods, this week.

He is confident Buller's application for funds will be approved.

FRIDAY'S SHAKE END

The Westport News 18/2/91

OF BIG EARTHQUAKES?

A DSIR seismologist says Friday night's magnitude 5.8 earthquake on the West Coast is probably closely related to two magnitude six quakes last month.

Dr Russell Robinson said the three strong quakes probably constitute an "earthquake swarm" in which there is no clear main shock.

"I would be surprised if there are any more earthquakes as large as these three big ones," he said.

Judging from past experience of a swarm near Westport in the 1980s the duration of these things is typically about two weeks.

However, he would not make any predictions. "Earthquakes are funny things," he said.

Dr Robinson admitted he was surprised by Friday's quake, coming 17 days after the other two.

"To be quite honest, I thought after two weeks the chances were pretty small of anything big."

Sometimes, damage depended on the exact mechanism of an earthquake which could push harder in one direction than another, Dr Robinson said.

In Reefton, it toppled a number of chimneys, smashed the window of the Cameo Gift Shop, shook an interior rafter slider door off its track and burst the water mains at the local Bank of New Zealand.

Fire Chief, Stuart Robinson, said a concrete block wall at the fire station was cracked and a pipe sheared off the filtration unit at the town's swimming pool. He said the pool would be out-of-action unless repairs could be made soon.

Reefton residents said the shaking was stronger and damage more severe than last month's quakes.

"To us, it was far worse than the other two," said Cameo Gift Shop proprietor, Lyn Sutton. However, she said stock damage was mostly confined to goods in the shop window, damaged by falling glass.

The assistant manager of the Hotel Reefton, Brendan Bailey, said both his home and his parent's hotel were damaged.

A chimney fell down into his lounge, a television set toppled off its stand and glassware was broken.

The hotel chimney also toppled and several hundred dollars worth of liquor was lost.

Mr Bailey said the quake was definitely worse than those last month.

"It was terrible. It came straight on - bang and it was there."

Reefton Motors proprietor, Bruce Watts, said he did not think the quake was worse and was surprised to see how much stock had toppled off shelves.

"We've got a coffee machine upstairs and it burst. We had water coming down the window," he said.

The proprietor of Dawson's Hotel, Elizabeth Rock, said the concrete block building stood up well.

"(There was) no major damage. Just things off shelves broken. But ours is a new hotel - it's only about six years old - so it's built to withstand them. I think."

However, Mrs Rock said the quake was more severe than those last month, when the hotel lost no stock at all.

Most of her guests had never experienced an earthquake and some were "quite shocked".

A couple from England had never been in an earthquake before and they were still quite shaken in the morning. But they said they came to New Zealand to have a taste of New Zealand life and they feel that having an earthquake was part of that, she said.

"I think they went away feeling they had had an experience they wouldn't experience anywhere else."

The Seismological Observatory in Wellington initially said the earthquake measured 6.3 and was centred well out to sea.

However, seismologist Murray Lowry, later revised his provisional assessment.

He said the quake measured between 5.5 and 5.9 and was centred in the same area as last month's magnitude six quakes.

WESTPORT

Westport and surrounding areas escaped with little damage on Friday night. Local supermarkets

again had broken glass, spill pokes and jam to clean up, but they said overall damage was minor compared to last month.

Works Consultancy Services said state highways were virtually unscathed.

Operations manager, Noel Eade, said some rocks came down in the lower Buller Gorge but were quickly cleaned up by a front-end loader.

He said it was possible last month's bigger quakes had already brought down the most unstable material.

Works inspected the roads in the early hours of Saturday morning. They found no new cracks or bridge damage.

The country townships north of Westport, which were hard hit by the second big earthquake last month, also escaped lightly.

Granly fire chief, Murray Watson, said there had been no reports of damage.

However, he said the midnight earthquake seemed almost as bad as last month's second shake and was "very noisy".

Mr Watson said the quake may have damaged more chimneys in the area.

MAYOR

Buller's mayor, Pat O'Dea, thought the quake was similar to the 2am shock 17 days earlier. He said it was less frightening because power stayed on.

Mr O'Dea did a circuit of town and was pleased to see so many neighbours checking on each other.

He said most West Coast-ers were taking the earthquakes in their stride.

"I think people are pretty resilient on the Coast. I have no doubt they'll take this and anything else that's thrown at us."

"I guess when you look back at the last 30 years, we've had four or five major earthquakes. There's been three deaths that I know of - more people have been killed walking across the roads."

Mr O'Dea described the quakes as "horribly frightening" but said most people had come to grips with them.

He said the Buller District Council would probably have to re-check every previously undamaged chimney it had inspected since the first quake.

EARTHQUAKE LIGHTS

W.P. News 19/2/1951

INVESTIGATION HERE

The Seismological Observatory in Wellington is investigating several reports of a rare phenomenon called "earthquake lights" accompanying last month's magnitude six earthquake in Buller.

Seismologist, Murray Lowry, said earthquake lights were sometimes seen in big 'quakes of magnitude seven or more. He said there was a theory that they happened when rock strain generated electricity, causing a flashover.

Mr Lowry said more than six people in Westport had reported seeing a flash during the first big earthquake three weeks ago.

"Most of them saw a pretty directionless flash in the sky," he said. "One person mentioned there was some low cloud and what he saw could have been a reflection. But it must have been pretty bright. Some people thought it was too bright to possibly be lightning."

Mr Lowry said most people saw the flash during the earthquake. "Most of them seemed to feel it

couldn't have been power lines, although there were some power lines broken."

He said the Buller Electric Power Board doubted whether the power cut would cause such a bright flash.

Mr Lowry said the general phenomenon of earthquake lights was poorly understood.

"There is quite a lot of interest in these things and quite a lot written about them. But it's one of these things that are terribly hard to nail down. Also, the variety of lights reported is quite big. They're not always the same."

He said the Westport earthquake had provoked a lot of reports of earthquake lights for a relatively small quake.

"Usually, the freakish things in earthquakes tend to start happening about magnitude seven, rather than magnitude six," he added.

While he continued to investigate the Westport reports, he may never establish exactly what people had seen.

Earthquake claims to be reassessed

All claims for damage caused by the recent earthquakes will be reviewed before a final assessment of damage and the amount of excess payable is decided.

Earthquake Commission spokespersons, Miss Gerwen told the "News" today that people should not be too concerned if it appeared that similar situations were being treated differently.

A Granly woman had approached the "News" seeking clarification on the difference between land claims and building claims and why apparently similar situations are treated differently.

In her own case she had been told that damage to a septic tank and pipes had been assessed as a land claim while a neighbour with similar damage had been assessed for house damage. The excess pay-

ment for house damage is \$200, and for land \$500.

Ms Gerwen said that determining the difference was by no means simple, but she could assure claimants that a further review would be carried out before a final decision was made.

She reminded people with claims or possible claims for earthquake damage to lodge them with the commission within a month. This could be done by ringing the toll-free number 0800-852-333.

People in doubt as to whether damage had been incurred should lodge a claim within the month limit. Claims could be considered, however, up to three months where damage had occurred but was not recognised or if people had been away from the country or for other valid reasons.

Earthquake Commission managers in Westport

Westport News Fri 22/Feb/'91

Earthquake and War Damage Commission general manager Milton Allwood and claims manager Joss Gerven have been in Westport today visiting insurance assessors, claimants and district council staff.

Over 1166 claims totalling around \$15 million have been lodged with the Commission following the three big earthquakes that rocked the region in January and this month.

The majority of claims, about 650, are from the Westport area and Waimangaroa with almost 200 from Greymouth, 126 from Reefton, 13 from Hokitika and the remainder from outlying areas.

Other claims have come from as far afield as New Plymouth and Christchurch after the January quakes.

One was from a New Plymouth massage parlour owner who claimed the January quake had broken windows on the premises.

Despite being advised by the DSIR that the quake could not have caused damage in New Plymouth, the commission sent an assessor to investigate the claim. The cost of the damage was, however, less than the \$200 excess, Mr Allwood said.

He said he believed all the West Coast claims were bona fide. Damage to chimneys accounted for 838. Eighty-six related to internal wall and ceiling

damage, 51 for damaged hot water cylinders, 86 for broken ornaments and crockery and 14 for retail stock. Claims averaged around \$1500.

Only around 50 claims, mainly from Reefton, were for damage caused by this month's deeper quakes.

The commission has begun to pay out on claims and expects to have them all settled within the next two or three months. People who incurred property damage in the January quakes have until next Wednesday to lodge claims and until March 17 to forward claims for this month's quake.

The commission pays out only on the indemnity value of the damaged property - replacement less depreciation.

This explains why many Buller residents have questioned payouts they have received or been told they can expect to receive.

One pensioner had \$2,000 of damage done to property, but will only get \$600 from the commission. Another commercial building which lost two chimneys can only expect \$4,000 of the \$11,000 it will cost to replace them.

Mr Allwood said they only paid out on the value of property at the time of damage. If a chimney was 50 or 60 years old they could not be expected to pay the full replacement

cost.

He said every single claim was different and claimants could not compare their refunds with other people's.

Often damage done to one property was classified under different regulations to damage on neighbouring land. That meant different excess payments and subsequent payouts were necessary.

Those without insurance cover on their property do not qualify for Earthquake and War Damage insurance.

Mr Allwood said figures released by the Insurance Council following the January earthquakes indicated that 20 per cent of West Coast property owners were uninsured.

"Compared with the rest of New Zealand that is very high."

Often in major disasters the Government and local bodies set up relief funds but Mr Allwood said he believed these were inequitable.

"People who get grants out of relief funds can end up better than those who have been paying insurance."

He said the Government was exploring ways of

making disaster insurance compulsory for every home owner to reduce the cost of subsidising disaster damage. "It's costing too much. On top of that they have to pay for damaged roads and bridges."

Although the recent quakes were of the same magnitude as those which shook southern Hawkes Bay in February and May last year, damage was nowhere near as severe.

Damage in Hawkes Bay totalled around \$10 million with almost 5500 claims lodged with the Commission.

Mr Allwood said those quakes were shallower than the ones felt on the West Coast, and because the ground there is more alluvial, there was considerable damage to buildings.

Although damage is unavoidable in earthquakes of this magnitude, people could take precautions such as strapping hot water cylinders to the structure of the house, and securing piles, he said.

The recent quakes highlighted the large number of brick chimneys on the West Coast and Mr Allwood said it might be preferable to replace these with metal flues and freestanding fireplaces which would stand up better to earthquakes.

PTO for Pic.



Earthquake and War Damage Commission general manager Milton Allwood and claims manager Joss Gerven. *(from previous page)*

Earthquakes still baffling experts

Wpt News 2/1/91

The pattern of the recent West Coast earthquakes continues to surprise the experts.

The Seismological Observatory in Wellington said there had been fewer after-shocks than expected since last Friday's magnitude 5.8 quake. It was centred about 15 kilometres south east of Westport.

The Observatory's super-sensitive instruments in Wellington have recorded about 10 after-shocks since last Friday. The instruments will only pick up quakes of magni-

tude 3.5 or more.

Seismologist, Dr Russell Robinson, said the small number of after-shocks was unusual, but this was not an ominous sign.

However, he admitted he had said the same thing after last month's magnitude 6 earthquakes and was surprised by the third strong shake.

"You really can't say," he added. "We'll add this to our store of experience and next time we go somewhere and see the same pattern we'll be able to make a better guess."

He said the pattern of the

West Coast earthquakes had been unique, although they fitted into what seismologists called an "earthquake swarm", in which there was no main shock.

It will be about six weeks before seismologists begin analysing the data gathered from the earthquakes.

Meanwhile, claims for damage continue to pour into the Earthquake and War Damage Commission. It has had another 300 claims since last Friday's quake, bringing the total value of claims to more

than \$1.5m.

Spokesperson, Demetra Kennedy, said the latest claims came from the Westport and Reefton areas and were mainly for chimney damage.

She said there had now been more than 1200 claims since the first earthquake.

The Commission has about 20 assessors working on the West Coast.

If it's news -
Ring the NEWS
7319

Quake 4.9

W'pt. News 20/1/91

The DSIR says an earthquake which shook the West Coast at 1.50pm on Sunday measured 4.9 on the Richter scale.

The quake was felt most strongly in Westport and Reefton as a shaking movement lasting less than 10 seconds.

It was followed a few minutes later by a small tremor.

There were no reports of damage.

Seismologist, Murray Lowry, said the shock was considered part of a series which began at the end of January.

It was "considerably weaker than the largest shock of the series on January 29, which attained a magnitude of about 6.1," he said.

The Seismological Observatory had no reading for the second, smaller tremor.

The earthquakes are termed a "swarm" by seismologists. There have now been three large quakes, measuring 6, 6.1 and 5.8 on the West Coast in the past month.

All of them were centred near Westport.

Meanwhile, a Buller High School guidance counsellor said students seemed to be coping with the stress of the earthquakes.

Ross Wiechern said he knew many students remained anxious and he had expected some would ask for counselling. However, there had been none so far.

Mr Wiechern assumes families are helping the youngsters cope with the stress, but said he was concerned some students may not be dealing with it.

He believes school staff have helped students feel more secure by talking to them and teaching them earthquake drill.

**GNS Quake Search Database printout
for one month from
Jan 29th to Feb 28th 1991**

Note that database dates are 12 hours ahead of NZ Time, i.e. first earthquake is shown as having happened at 12.58 pm 28/1/1991. A further one hour discrepancy between the database and media reports is presumed to be due to the latter being given as per 'daylight savings.'

CUSP_ID	LAT	LONG	NZMGE	NZMGN	ORI_YEAR	ORI_MON	ORI_DAY	ORI_HOUR	ORI_MINU	ORI_SECC	MAG	DEPTH
194283	-41.9038	171.659	2398739	5921887	1991	1	28	12	58	47.89578	6.134	9.8704
201380	-41.89	171.61	2394646	5923354	1991	1	28	13	1	42.06271	3.737	8.2
201381	-41.89	171.61	2394646	5923354	1991	1	28	13	2	12.46733	2.858	8.2
201426	-41.87003	171.7965	2410089	5925809	1991	1	28	13	4	38.94913	3.337	8
201491	-41.89	171.61	2394646	5923354	1991	1	28	13	5	32.65897	2.243	8.2
201501	-41.89	171.61	2394646	5923354	1991	1	28	13	5	43.34729	2.095	8.2
201566	-41.89	171.61	2394646	5923354	1991	1	28	13	5	46.0611	2.304	8.2
201568	-41.89	171.61	2394646	5923354	1991	1	28	13	5	46.94025	2.662	8.2
201567	-41.84841	171.6429	2397298	5928018	1991	1	28	13	5	49.06119	2.575	8
201570	-41.89552	171.6618	2398955	5922810	1991	1	28	13	7	0.8197	3.144	10.6207
201571	-41.89417	171.5853	2392604	5922857	1991	1	28	13	7	48.26337	2.45	8
201572	-41.89	171.61	2394646	5923354	1991	1	28	13	8	22.63916	1.869	8.2
201573	-41.89	171.61	2394646	5923354	1991	1	28	13	8	33.83136	1.799	8.2
201574	-41.89	171.61	2394646	5923354	1991	1	28	13	8	54.72443	1.87	8.2
198623	-41.89	171.61	2394646	5923354	1991	1	28	13	9	34.66222	1.685	8.2
201372	-41.89	171.61	2394646	5923354	1991	1	28	13	9	41.00548	2.096	8.2
201374	-41.88126	171.5952	2393400	5924305	1991	1	28	13	9	49.85197	4.024	10.3918
201375	-41.89	171.61	2394646	5923354	1991	1	28	13	11	31.83833	2.66	8.2
201376	-41.89	171.61	2394646	5923354	1991	1	28	13	12	2.53023	2.654	8.2
198582	-41.89	171.61	2394646	5923354	1991	1	28	13	15	52.29304	2.156	8.2
201546	-41.91669	171.7254	2404271	5920540	1991	1	28	13	17	27.25877	2.342	8
201547	-41.88579	171.6981	2401952	5923938	1991	1	28	13	17	50.61051	3.267	8
201549	-41.88804	171.7319	2404762	5923731	1991	1	28	13	18	39.59978	2.426	8
201550	-41.89	171.61	2394646	5923354	1991	1	28	13	18	54.8068	2.525	8
201551	-41.89	171.61	2394646	5923354	1991	1	28	13	19	7.96017	2.492	8.2
201552	-41.89	171.61	2394646	5923354	1991	1	28	13	19	26.97513	2.59	8.2
201553	-41.89	171.61	2394646	5923354	1991	1	28	13	19	49.46779	2.146	8.2
201554	-41.89	171.61	2394646	5923354	1991	1	28	13	20	28.16379	1.478	8.2
198685	-41.87586	171.7334	2404865	5925085	1991	1	28	13	20	53.09399	2.597	8
201555	-41.89	171.61	2394646	5923354	1991	1	28	13	21	10.72959	2.308	8.2
201556	-41.89	171.61	2394646	5923354	1991	1	28	13	21	22.87251	2.224	8.2
201558	-41.89	171.61	2394646	5923354	1991	1	28	13	21	37.60028	1.939	8.2
201559	-41.89	171.61	2394646	5923354	1991	1	28	13	22	4.51991	2.622	8.2
201560	-41.89	171.61	2394646	5923354	1991	1	28	13	22	31.52917	1.744	8.2
201557	-41.89	171.61	2394646	5923354	1991	1	28	13	22	48.20414	2.603	8.2

201561	-41.89	171.61	2394646	5923354	1991	1	28	13	23	6.81207	2.327	8.2
194287	-41.89	171.61	2394646	5923354	1991	1	28	13	25	42.55309	2.321	8.2
201562	-41.89858	171.6929	2401543	5922511	1991	1	28	13	26	47.68626	3.061	9.3929
201563	-41.91063	171.6827	2400714	5921159	1991	1	28	13	27	35.80021	2.95	8.2369
201564	-41.89	171.61	2394646	5923354	1991	1	28	13	28	5.52807	2.048	8
201565	-41.8931	171.6781	2400303	5923100	1991	1	28	13	30	5.83223	3.062	10.9044
201576	-41.89	171.61	2394646	5923354	1991	1	28	13	31	35.01707	2.114	8.2
198625	-41.87802	171.7008	2402158	5924804	1991	1	28	13	31	58.8637	2.947	9.5632
201577	-41.89	171.61	2394646	5923354	1991	1	28	13	32	35.96881	2.247	8.2
201578	-41.89	171.61	2394646	5923354	1991	1	28	13	33	7.36019	1.815	8.2
201579	-41.91568	171.7358	2405132	5920666	1991	1	28	13	34	19.24335	2.242	8
194288	-41.87402	171.6605	2398806	5925197	1991	1	28	13	34	32.04493	3.322	10.6833
201580	-41.89	171.61	2394646	5923354	1991	1	28	13	34	43.40169	3.121	8
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198660	-41.91608	171.7036	2402454	5920581	1991	1	28	13	39	8.74335	2.808	9.5194
201582	-41.90001	171.6	2393835	5922229	1991	1	28	13	43	3.17554	1.864	8
201583	-41.89	171.61	2394646	5923354	1991	1	28	13	43	26.24815	1.816	8.2
198661	-41.90001	171.6	2393835	5922229	1991	1	28	13	44	48.43855	2.67	8
198713	-41.89	171.61	2394646	5923354	1991	1	28	13	45	34.55634	1.692	8.2
201629	-41.89	171.61	2394646	5923354	1991	1	28	13	45	40.64045	1.953	8.2
201630	-41.89	171.61	2394646	5923354	1991	1	28	13	46	47.18955	1.725	8.2
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201633	-41.89	171.61	2394646	5923354	1991	1	28	13	54	37.67827	2.25	8.2
201634	-41.89	171.61	2394646	5923354	1991	1	28	13	55	3.81287	1.84	8.2
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198627	-41.87661	171.7263	2404275	5924993	1991	1	28	13	58	29.42163	2.97	11.2369
201636	-41.89	171.61	2394646	5923354	1991	1	28	13	59	23.87846	1.439	8.2

201638	-41.89	171.61	2394646	5923354	1991	1	28	14	1	3,30845	2.1	8.2
194290	-41.90338	171.6271	2396090	5921891	1991	1	28	14	1	19,14779	4.028	11.8896
201639	-41.89	171.61	2394646	5923354	1991	1	28	14	2	58,08154	1.541	8.2
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201642	-41.89	171.61	2394646	5923354	1991	1	28	14	5	16,18449	1.453	8.2
201643	-41.89	171.61	2394646	5923354	1991	1	28	14	6	36,19485	1.451	8.2
194292	-41.89742	171.677	2400218	5922619	1991	1	28	14	9	54,54059	3.137	9.8787
201644	-41.88107	171.7141	2403266	5924483	1991	1	28	14	11	55,98721	3.177	11.4169
201646	-41.90001	171.6	2393835	5922229	1991	1	28	14	13	46,09366	1.597	8
198715	-41.89	171.61	2394646	5923354	1991	1	28	14	15	14,9579	1.647	8.2
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201648	-41.89	171.61	2394646	5923354	1991	1	28	14	16	28,90482	1.638	8.2
201649	-41.89	171.61	2394646	5923354	1991	1	28	14	17	42,19791	1.583	8.2
198716	-41.89	171.61	2394646	5923354	1991	1	28	14	18	12,37185	1.589	8.2
201650	-41.89	171.61	2394646	5923354	1991	1	28	14	18	56,95895	1.508	8.2
201651	-41.89	171.61	2394646	5923354	1991	1	28	14	19	15,82349	1.586	8.2
201652	-41.89	171.61	2394646	5923354	1991	1	28	14	19	53,54476	2.033	8.2
198687	-41.89	171.61	2394646	5923354	1991	1	28	14	21	17,65247	1.738	8.2
201654	-41.89	171.61	2394646	5923354	1991	1	28	14	21	58,63837	2.384	8.2
201653	-41.89	171.61	2394646	5923354	1991	1	28	14	22	0,72969	2.585	8.2
201655	-41.89	171.61	2394646	5923354	1991	1	28	14	25	39,09974	2.069	8.2
201656	-41.89	171.61	2394646	5923354	1991	1	28	14	26	53,98047	1.498	8.2
196257	-41.89015	171.7423	2405625	5923509	1991	1	28	14	28	51,41179	2.621	8.2
198688	-41.89061	171.7352	2405035	5923449	1991	1	28	14	30	38,50702	2.39	6.8602
198629	-41.92267	171.7054	2402617	5919851	1991	1	28	14	33	15,65387	2.605	6.3792
201658	-41.89	171.61	2394646	5923354	1991	1	28	14	33	56,34599	2.101	8.2
201765	-41.89	171.61	2394646	5923354	1991	1	28	14	36	25,97542	1.423	8.2
201659	-41.89	171.61	2394646	5923354	1991	1	28	14	36	33,26783	2.234	8.2
201660	-41.89	171.61	2394646	5923354	1991	1	28	14	39	56,15008	1.743	8.2
201661	-41.89	171.61	2394646	5923354	1991	1	28	14	40	45,72047	1.343	8.2
201662	-41.89	171.61	2394646	5923354	1991	1	28	14	42	35,44322	2.08	8.2
201663	-41.89	171.61	2394646	5923354	1991	1	28	14	44	23,36176	1.6	8.2
198718	-41.89	171.61	2394646	5923354	1991	1	28	14	49	32,97001	2.162	8.2
201665	-41.89	171.61	2394646	5923354	1991	1	28	14	50	13,4979	-0.691	8.2

201667	-41.89	171.61	2394646	5923354	1991	1	28	14	53	23.1568	1.872	8.2
198630	-41.90017	171.6657	2399283	5922299	1991	1	28	14	53	47.11569	2.638	10.4569
201668	-41.89	171.61	2394646	5923354	1991	1	28	14	55	34.02608	1.632	8.2
201669	-41.89	171.61	2394646	5923354	1991	1	28	14	58	19.37771	1.119	8.2
198719	-41.89	171.61	2394646	5923354	1991	1	28	14	58	33.63386	1.883	8.2
194294	-41.8639	171.6661	2399254	5926328	1991	1	28	15	1	4.61371	3.311	10.9995
201670	-41.89	171.61	2394646	5923354	1991	1	28	15	1	45.42147	2.341	8.2
201671	-41.89	171.61	2394646	5923354	1991	1	28	15	3	14.51166	1.396	8.2
201672	-41.89	171.61	2394646	5923354	1991	1	28	15	3	36.36311	1.588	8.2
198720	-41.89	171.61	2394646	5923354	1991	1	28	15	6	2.38731	1.759	8.2
201673	-41.89	171.61	2394646	5923354	1991	1	28	15	6	23.41918	1.901	8.2
201674	-41.89	171.61	2394646	5923354	1991	1	28	15	7	13.716	1.381	8.2
201676	-41.89	171.61	2394646	5923354	1991	1	28	15	7	33.50732	0.949	8.2
201675	-41.89	171.61	2394646	5923354	1991	1	28	15	8	23.28102	1.914	8.2
198631	-41.89631	171.8004	2410456	5922895	1991	1	28	15	9	58.75776	2.541	8
198721	-41.89	171.61	2394646	5923354	1991	1	28	15	14	34.44663	2.034	8.2
201678	-41.89	171.61	2394646	5923354	1991	1	28	15	16	40.93715	1.861	8.2
201682	-41.89	171.61	2394646	5923354	1991	1	28	15	24	20.36835	1.213	8.2
198632	-41.88085	171.7256	2404226	5924522	1991	1	28	15	24	35.80605	2.241	9.0747
201681	-41.89	171.61	2394646	5923354	1991	1	28	15	25	24.88251	1.137	8.2
201679	-41.89552	171.6299	2396305	5922768	1991	1	28	15	26	50.89537	2.801	12.8827
201680	-41.91294	171.7277	2404449	5920960	1991	1	28	15	27	38.59102	2.235	8.2
201683	-41.88271	171.6998	2402090	5924282	1991	1	28	15	28	55.09898	2.753	10.6149
198634	-41.89	171.61	2394646	5923354	1991	1	28	15	30	43.02223	1.15	8.2
201685	-41.89	171.61	2394646	5923354	1991	1	28	15	31	23.50009	1.965	8.2
201686	-41.89	171.61	2394646	5923354	1991	1	28	15	31	35.95845	1.286	8.2
201687	-41.89	171.61	2394646	5923354	1991	1	28	15	33	19.67888	2.218	8.2
201688	-41.89	171.6	2393817	5923341	1991	1	28	15	33	52.21959	1.011	8.2
201689	-41.89	171.61	2394646	5923354	1991	1	28	15	34	4.98999	0.376	8.2
198635	-41.88363	171.7438	2405743	5924235	1991	1	28	15	35	27.56625	2.668	9.6326
201690	-41.89	171.61	2394646	5923354	1991	1	28	15	38	6.47847	2.085	8.2
198722	-41.89	171.61	2394646	5923354	1991	1	28	15	38	31.44123	1.994	8.2
201691	-41.89	171.61	2394646	5923354	1991	1	28	15	38	50.20304	1.466	8.2
201692	-41.89	171.61	2394646	5923354	1991	1	28	15	39	13.09247	1.113	8.2
201693	-41.89	171.61	2394646	5923354	1991	1	28	15	39	42.04593	1.315	8.2
198723	-41.89	171.61	2394646	5923354	1991	1	28	15	43	36.03847	1.722	8.2

201694	-41.89	171.61	2394646	5923354	1991	1	28	15	44	6.45647	1.783	8.2
198636	-41.88317	171.7026	2402319	5924235	1991	1	28	15	46	46.92163	2.068	8.6378
201695	-41.89	171.61	2394646	5923354	1991	1	28	15	47	29.16389	1.197	8.2
201696	-41.89	171.61	2394646	5923354	1991	1	28	15	47	59.66731	1.225	8.2
198724	-41.89	171.61	2394646	5923354	1991	1	28	15	51	1.17701	1.512	8.2
198637	-41.88204	171.7334	2404872	5924399	1991	1	28	15	55	37.08162	2.873	10.9214
198725	-41.89	171.61	2394646	5923354	1991	1	28	15	58	12.18606	1.487	8.2
201697	-41.89	171.61	2394646	5923354	1991	1	28	15	58	32.79542	1.502	8.2
201698	-41.89	171.61	2394646	5923354	1991	1	28	15	59	33.7354	1.777	8.2
201699	-41.89	171.61	2394646	5923354	1991	1	28	16	0	38.2973	1.212	8.2
198726	-41.89	171.61	2394646	5923354	1991	1	28	16	11	39.45847	1.348	8.2
201700	-41.89	171.61	2394646	5923354	1991	1	28	16	12	5.58038	1.875	8.2
201701	-41.89	171.61	2394646	5923354	1991	1	28	16	14	6.8573	1.302	8.2
198690	-41.89	171.61	2394646	5923354	1991	1	28	16	15	32.93654	2.311	8.2
201702	-41.89	171.61	2394646	5923354	1991	1	28	16	15	55.24606	1.331	8.2
201703	-41.89	171.61	2394646	5923354	1991	1	28	16	17	33.25853	1.112	8.2
198727	-41.89	171.61	2394646	5923354	1991	1	28	16	19	46.51447	1.35	8.2
198728	-41.89	171.61	2394646	5923354	1991	1	28	16	24	27.40536	1.585	8.2
196321	-41.89	171.61	2394646	5923354	1991	1	28	16	28	49.57287	2.021	8.2
198729	-41.89	171.61	2394646	5923354	1991	1	28	16	33	31.15625	2.132	8.2
201704	-41.89	171.61	2394646	5923354	1991	1	28	16	34	5.88807	1.138	8.2
198730	-41.89	171.61	2394646	5923354	1991	1	28	16	36	44.39817	1.528	8.2
201705	-41.89	171.61	2394646	5923354	1991	1	28	16	38	28.97408	2.09	8.2
201706	-41.89	171.61	2394646	5923354	1991	1	28	16	39	6.95709	2.496	8.2
201707	-41.89	171.61	2394646	5923354	1991	1	28	16	39	35.96272	1.439	8.2
198589	-41.89	171.61	2394646	5923354	1991	1	28	16	44	35.3316	2.254	8.2
198731	-41.89	171.61	2394646	5923354	1991	1	28	16	50	21.706	1.11	8.2
201708	-41.89	171.61	2394646	5923354	1991	1	28	16	50	37.70731	1.456	8.2
201709	-41.89	171.61	2394646	5923354	1991	1	28	16	52	28.73221	1.829	8.2
198732	-41.89	171.61	2394646	5923354	1991	1	28	16	54	28.30731	1.457	8.2
201710	-41.89	171.61	2394646	5923354	1991	1	28	16	55	55.82149	1.69	8.2
198691	-41.89	171.61	2394646	5923354	1991	1	28	17	11	8.24187	3.144	8.2
201711	-41.89	171.61	2394646	5923354	1991	1	28	17	12	12.44606	1.502	8.2
201712	-41.89	171.61	2394646	5923354	1991	1	28	17	13	5.53803	1.759	8.2
198733	-41.89	171.61	2394646	5923354	1991	1	28	17	14	22.62918	1.575	8.2
201713	-41.89	171.61	2394646	5923354	1991	1	28	17	15	39.92039	1.416	8.2

201714	-41.89	171.61	2394646	5923354	1991	1	28	17	15	48.05669	1.596	8.2
198734	-41.89	171.61	2394646	5923354	1991	1	28	17	16	55.33731	1.608	8.2
201715	-41.89	171.61	2394646	5923354	1991	1	28	17	18	45.83601	1.371	8.2
198638	-41.90099	171.7292	2404559	5922289	1991	1	28	17	19	37.03539	2.621	8.2
201716	-41.89	171.61	2394646	5923354	1991	1	28	17	24	41.37167	2.025	8.2
198735	-41.89	171.61	2394646	5923354	1991	1	28	17	29	8.72508	1.267	8.2
201717	-41.89	171.61	2394646	5923354	1991	1	28	17	29	58.0667	1.232	8.2
198639	-41.88179	171.699	2402015	5924383	1991	1	28	17	35	37.62649	2.737	10.2895
201718	-41.86587	171.757	2406807	5926224	1991	1	28	17	38	1.84379	2.477	8
198640	-41.89	171.61	2394646	5923354	1991	1	28	17	39	41.34497	1.197	8.2
201719	-41.89	171.61	2394646	5923354	1991	1	28	17	40	9.64645	1.308	8.2
198736	-41.89	171.61	2394646	5923354	1991	1	28	17	47	18.06836	1.872	8.2
201720	-41.89	171.61	2394646	5923354	1991	1	28	17	50	15.46731	1.662	8.2
198737	-41.89	171.61	2394646	5923354	1991	1	28	17	55	34.30643	1.369	8.2
198738	-41.89	171.61	2394646	5923354	1991	1	28	17	57	57.82885	1.639	8.2
201721	-41.89	171.61	2394646	5923354	1991	1	28	17	58	22.56322	1.16	8.2
201722	-41.89	171.61	2394646	5923354	1991	1	28	17	59	23.36983	0.979	8.2
194296	-41.89	171.61	2394646	5923354	1991	1	28	18	0	51.13533	1.485	8.2
201724	-41.90484	171.7281	2404470	5921860	1991	1	28	18	0	54.52057	6.286	17.3512
201789	-41.90001	171.73	2404622	5922399	1991	1	28	18	1	7.72204		17.3
201790	-41.90001	171.73	2404622	5922399	1991	1	28	18	1	21.02204		17.3
201791	-41.90001	171.7	2402132	5922361	1991	1	28	18	3	6.26077	4.022	17
201792	-41.90001	171.7	2402132	5922361	1991	1	28	18	3	26.24979	3.092	17
201793	-41.90001	171.73	2404622	5922399	1991	1	28	18	4	12.8484	2.677	17.3
201794	-41.9045	171.7545	2406662	5921930	1991	1	28	18	4	20.20569	4.608	11.7638
201825	-41.90179	171.811	2411343	5922299	1991	1	28	18	5	37.37585	3.335	7.9148
201854	-41.90001	171.73	2404622	5922399	1991	1	28	18	5	54.95972	2.468	17.3
201855	-41.90001	171.73	2404622	5922399	1991	1	28	18	6	16.08761	1.295	17.3
201856	-41.90329	171.6685	2399521	5921956	1991	1	28	18	6	23.41721	2.832	8.6105
201857	-41.90001	171.73	2404622	5922399	1991	1	28	18	6	55.2132	1.821	17.3
201858	-41.90001	171.73	2404622	5922399	1991	1	28	18	7	10.05942	1.846	17.3
201859	-41.90001	171.7	2402132	5922361	1991	1	28	18	7	20.30508	2.9	17
201874	-41.90001	171.73	2404622	5922399	1991	1	28	18	7	29.94601	1.061	17.3
201875	-41.92815	171.7109	2403088	5919249	1991	1	28	18	7	32.74023	2.613	14.5511
201876	-41.9096	171.8092	2411211	5921429	1991	1	28	18	7	41.11389	2.636	11.0678
201886	-41.89088	171.8189	2411986	5923520	1991	1	28	18	8	14.11874	2.595	8.2609

202607	-41.90001	171.7	2402132	5922361	1991	1	28	18	8	20.94812	2.884	17
202745	-41.90472	171.8	2410435	5921960	1991	1	28	18	8	57.8259	2.818	10.8157
203033	-41.89256	171.7336	2404904	5923231	1991	1	28	18	9	8.72281	2.958	8.8991
203097	-41.90001	171.7	2402132	5922361	1991	1	28	18	9	25.68799	1.112	17
203098	-41.93551	171.7401	2405516	5918468	1991	1	28	18	9	34.23663	2.162	11.9719
203156	-41.90001	171.73	2404622	5922399	1991	1	28	18	10	8.1571	1.728	17.3
203157	-41.90001	171.73	2404622	5922399	1991	1	28	18	10	16.64203	3.239	17.3
203159	-41.90001	171.73	2404622	5922399	1991	1	28	18	10	18.34204	1.642	17.3
203161	-41.94349	171.7888	2409570	5917641	1991	1	28	18	10	18.55096	2.589	14.7927
203371	-41.90001	171.7	2402132	5922361	1991	1	28	18	10	49.47571	2.853	17
203372	-41.88931	171.6524	2398167	5923488	1991	1	28	18	11	0.73688	2.685	17
201826	-41.89458	171.8044	2410785	5923092	1991	1	28	18	11	14.302	1.945	9.6738
203954	-41.93761	171.8314	2413096	5918344	1991	1	28	18	11	36.83057	1.204	17
203955	-41.90001	171.73	2404622	5922399	1991	1	28	18	11	39.18018	1.538	17.3
203957	-41.90001	171.73	2404622	5922399	1991	1	28	18	11	48.35303	1.277	17.3
204328	-41.91221	171.7294	2404588	5921043	1991	1	28	18	11	56.56458	2.022	16.7947
204413	-41.90001	171.73	2404622	5922399	1991	1	28	18	12	16.07709	0.669	17.3
204429	-41.90001	171.73	2404622	5922399	1991	1	28	18	12	41.58827	1.442	17.3
204431	-41.90001	171.73	2404622	5922399	1991	1	28	18	12	52.34969	1.405	17.3
204535	-41.90001	171.73	2404622	5922399	1991	1	28	18	12	59.55215	0.905	17.3
204536	-41.90001	171.73	2404622	5922399	1991	1	28	18	13	25.20992	1.069	17.3
204654	-41.90001	171.73	2404622	5922399	1991	1	28	18	13	29.00145	1.035	17.3
204655	-41.90001	171.73	2404622	5922399	1991	1	28	18	13	35.7424	1.495	17.3
204656	-41.90001	171.73	2404622	5922399	1991	1	28	18	13	43.03813	1.642	17.3
204658	-41.89512	171.7663	2407626	5922987	1991	1	28	18	13	47.14331	4.049	12.2833
204660	-41.90001	171.73	2404622	5922399	1991	1	28	18	15	10.50909	1.488	17.3
204661	-41.90001	171.73	2404622	5922399	1991	1	28	18	15	13.3515	1.803	17.3
204662	-41.94838	171.7076	2402848	5916998	1991	1	28	18	15	26.38757	2.679	15.757
204663	-41.90001	171.73	2404622	5922399	1991	1	28	18	15	45.95605	1.869	17.3
204668	-41.90001	171.73	2404622	5922399	1991	1	28	18	16	4.5448	1.719	17.3
204676	-41.89	171.61	2394646	5923354	1991	1	28	18	16	17.47868	1.742	8.2
204677	-41.89	171.61	2394646	5923354	1991	1	28	18	16	20.15729	1.173	8.2
204678	-41.89	171.61	2394646	5923354	1991	1	28	18	16	28.73146	1.356	8.2
204680	-41.90001	171.6	2393835	5922229	1991	1	28	18	16	46.68193	2.584	8
204681	-41.90001	171.7	2402132	5922361	1991	1	28	18	16	50.28676	2.649	17
204669	-41.90001	171.73	2404622	5922399	1991	1	28	18	17	14.17677	1.914	17.3

204683	-41.90001	171.73	2404622	5922399	1991	1	28	18	17	34.10202	0.519	17.3
204682	-41.90001	171.73	2404622	5922399	1991	1	28	18	17	38.84198	1.145	17.3
204684	-41.90001	171.73	2404622	5922399	1991	1	28	18	17	41.79813	1.042	17.3
201731	-41.90001	171.73	2404622	5922399	1991	1	28	18	17	46.8351	0.496	17.3
201730	-41.91709	171.7535	2406599	5920531	1991	1	28	18	17	51.72444	3.449	11.9294
201734	-41.91755	171.8064	2410992	5920543	1991	1	28	18	18	45.94242	2.845	9.1295
194300	-41.90001	171.73	2404622	5922399	1991	1	28	18	21	30.61204	1.504	17.3
201735	-41.90001	171.73	2404622	5922399	1991	1	28	18	22	8.72206	1.395	17.3
201736	-41.90001	171.73	2404622	5922399	1991	1	28	18	22	29.55075	2.266	17.3
201737	-41.88855	171.8003	2410436	5923757	1991	1	28	18	23	3.68099	2.769	12
201738	-41.89	171.61	2394646	5923354	1991	1	28	18	24	9.05439	2.527	8.2
201739	-41.90106	171.8283	2412779	5922400	1991	1	28	18	24	38.45535	2.525	8
201740	-41.91295	171.8497	2414573	5921104	1991	1	28	18	24	51.03955	3.101	8
201741	-41.90001	171.73	2404622	5922399	1991	1	28	18	26	0.02151	2.092	17.3
201742	-41.90001	171.73	2404622	5922399	1991	1	28	18	26	28.44337	2.495	17.3
201743	-41.8872	171.793	2409828	5923898	1991	1	28	18	27	12.30176	3.491	11.8075
201744	-41.94672	171.809	2411250	5917306	1991	1	28	18	27	32.78249	3.313	4.4299
201762	-41.90001	171.73	2404622	5922399	1991	1	28	18	27	48.08718	2.693	17.3
201763	-41.90001	171.73	2404622	5922399	1991	1	28	18	28	0.64196	2.453	17.3
201764	-41.90001	171.73	2404622	5922399	1991	1	28	18	28	51.42744	1.889	17.3
201766	-41.90356	171.7625	2407325	5922045	1991	1	28	18	29	14.38704	3.083	11.8494
194301	-41.90001	171.73	2404622	5922399	1991	1	28	18	30	13.0686	1.575	17.3
201811	-41.90001	171.73	2404622	5922399	1991	1	28	18	30	25.46547	1.422	17.3
201813	-41.90001	171.73	2404622	5922399	1991	1	28	18	30	38.23851	1.288	17.3
201815	-41.90001	171.73	2404622	5922399	1991	1	28	18	30	54.15547	1.597	17.3
201817	-41.90001	171.73	2404622	5922399	1991	1	28	18	31	0.08774	1.348	17.3
204692	-41.90001	171.73	2404622	5922399	1991	1	28	18	31	17.83583	1.124	17.3
201819	-41.90001	171.73	2404622	5922399	1991	1	28	18	31	33.65508	1.218	17.3
201822	-41.90001	171.73	2404622	5922399	1991	1	28	18	33	49.32641	2.721	17.3
201823	-41.90786	171.7571	2406886	5921560	1991	1	28	18	35	8.7361	2.365	17
201824	-41.89737	171.8137	2411562	5922793	1991	1	28	18	35	10.62818	3.315	11.8948
198739	-41.90001	171.73	2404622	5922399	1991	1	28	18	36	21.54954	1.06	17.3
201860	-41.90001	171.73	2404622	5922399	1991	1	28	18	36	47.18777	1.671	17.3
201861	-41.90001	171.73	2404622	5922399	1991	1	28	18	36	52.2171	1.569	17.3
201862	-41.90001	171.73	2404622	5922399	1991	1	28	18	37	14.93127	1.579	17.3
201863	-41.90001	171.73	2404622	5922399	1991	1	28	18	38	19.90778	1.804	17.3

194302	-41.89343	171.7786	2408647	5923189	1991	1	28	18	38	31.25391	2.635	17
201864	-41.94992	171.7128	2403275	5916834	1991	1	28	18	38	45.02619	2.665	17
201865	-41.90417	171.7676	2407745	5921983	1991	1	28	18	39	22.75372	3.359	15.0705
201866	-41.90001	171.73	2404622	5922399	1991	1	28	18	40	39.04055	2.284	17
201868	-41.90001	171.73	2404622	5922399	1991	1	28	18	41	15.20274	1.647	17.3
201869	-41.90001	171.73	2404622	5922399	1991	1	28	18	41	24.91969	1.802	17.3
198693	-41.90001	171.73	2404622	5922399	1991	1	28	18	42	53.30125	2.495	17.3
198590	-41.91523	171.8101	2411290	5920805	1991	1	28	18	43	23.09715	3.062	15.8556
201871	-41.90001	171.73	2404622	5922399	1991	1	28	18	44	56.77247	1.953	17.3
202159	-41.90001	171.73	2404622	5922399	1991	1	28	18	45	13.71743	1.664	17.3
202160	-41.91618	171.755	2406723	5920634	1991	1	28	18	45	56.80786	2.539	11.7794
202161	-41.90001	171.73	2404622	5922399	1991	1	28	18	46	23.8895	1.809	17.3
202162	-41.90001	171.73	2404622	5922399	1991	1	28	18	46	56.29151	2.143	17
202163	-41.90001	171.73	2404622	5922399	1991	1	28	18	48	1.93961	1.625	17.3
202164	-41.90001	171.73	2404622	5922399	1991	1	28	18	48	16.64227	2.243	17.3
198664	-41.90001	171.73	2404622	5922399	1991	1	28	18	48	29.08282	1.854	17.3
204694	-41.92948	171.7826	2409030	5919190	1991	1	28	18	48	47.23647	3.197	8.8434
204695	-41.90001	171.73	2404622	5922399	1991	1	28	18	50	40.62363	1.58	17.3
204696	-41.90001	171.73	2404622	5922399	1991	1	28	18	50	57.39658	1.523	17.3
194303	-41.92632	171.8059	2410957	5919568	1991	1	28	18	51	33.6898	2.674	11.6311
204697	-41.93227	171.9743	2424935	5919091	1991	1	28	18	52	19.35417	2.42	3.3488
204698	-41.92498	171.7467	2406049	5919646	1991	1	28	18	53	0.3479	3.19	12.8026
198694	-41.92297	171.7621	2407325	5919888	1991	1	28	18	54	28.68199	3.083	10.4828
204699	-41.96536	171.8036	2410830	5915229	1991	1	28	18	54	54.38077	2.629	8
204700	-41.90001	171.73	2404622	5922399	1991	1	28	18	56	4.4332	2.129	17.3
204701	-41.90001	171.73	2404622	5922399	1991	1	28	18	56	29.68457	1.979	17.3
204705	-41.90001	171.73	2404622	5922399	1991	1	28	18	58	26.45203	0.672	17.3
204706	-41.90001	171.73	2404622	5922399	1991	1	28	18	58	29.98929	2.236	17.3
204707	-41.90001	171.73	2404622	5922399	1991	1	28	18	58	52.29204	1.752	17.3
204708	-41.90001	171.73	2404622	5922399	1991	1	28	18	58	54.10434	1.835	17.3
204709	-41.90001	171.73	2404622	5922399	1991	1	28	18	59	1.85495	2.219	17.3
204703	-41.92685	171.7542	2406676	5919448	1991	1	28	18	59	31.77571	3.284	14.8451
204704	-41.88918	171.8092	2411176	5923697	1991	1	28	19	0	48.19462	2.656	10.1626
204711	-41.90001	171.73	2404622	5922399	1991	1	28	19	2	32.91864	1.948	17.3
204728	-41.94361	171.8677	2416115	5917718	1991	1	28	19	3	9.05402	2.172	8
204729	-41.89	171.61	2394646	5923354	1991	1	28	19	3	32.38644	1.712	8.2

204730	-41.89	171.61	2394646	5923354	1991	1	28	19	3	43.54495	2.288	8.2
204731	-41.89	171.61	2394646	5923354	1991	1	28	19	4	42.92642	1.502	8.2
204732	-41.89	171.61	2394646	5923354	1991	1	28	19	5	28.20032	0.321	8.2
204733	-41.89	171.61	2394646	5923354	1991	1	28	19	5	40.23279	1.809	8.2
204734	-41.89	171.61	2394646	5923354	1991	1	28	19	6	6.55963	1.24	8.2
198740	-41.90001	171.73	2404622	5922399	1991	1	28	19	7	16.61362	2.009	17.3
204735	-41.90001	171.73	2404622	5922399	1991	1	28	19	7	34.40993	2.025	17.3
204736	-41.90001	171.73	2404622	5922399	1991	1	28	19	7	23.6491	1.074	17.3
204737	-41.90001	171.73	2404622	5922399	1991	1	28	19	8	8.22298	2.083	17.3
198207	-41.8986	171.7792	2408700	5922616	1991	1	28	19	9	16.58403	2.331	13.1504
204738	-41.93357	171.8099	2411305	5918768	1991	1	28	19	10	36.99727	3.372	14.3613
204739	-41.89	171.61	2394646	5923354	1991	1	28	19	12	37.04022	1.765	8.2
204740	-41.90001	171.73	2404622	5922399	1991	1	28	19	13	15.5116	1.455	17.3
204741	-41.90001	171.73	2404622	5922399	1991	1	28	19	13	43.22665	2.001	17.3
204742	-41.90001	171.73	2404622	5922399	1991	1	28	19	14	6.92759	2.309	17.3
198698	-41.87873	171.659	2398690	5924672	1991	1	28	19	14	20.7742	3.15	10.9515
204743	-41.90001	171.73	2404622	5922399	1991	1	28	19	15	17.03439	1.915	17.3
198741	-41.90001	171.73	2404622	5922399	1991	1	28	19	15	43.95554	1.575	17.3
204744	-41.90001	171.73	2404622	5922399	1991	1	28	19	16	19.42063	1.669	17.3
204745	-41.90001	171.73	2404622	5922399	1991	1	28	19	17	8.05605	0.869	17.3
204746	-41.90001	171.73	2404622	5922399	1991	1	28	19	17	29.20831	0.856	17.3
204747	-41.90001	171.73	2404622	5922399	1991	1	28	19	18	1.41202	1.46	17.3
204748	-41.90001	171.73	2404622	5922399	1991	1	28	19	18	4.17809	1.384	17.3
198699	-41.92128	171.749	2406232	5920060	1991	1	28	19	21	0.80767	3.398	12.2653
198742	-41.90001	171.73	2404622	5922399	1991	1	28	19	24	5.23439	1.083	17.3
204750	-41.90001	171.73	2404622	5922399	1991	1	28	19	24	11.56484	1.785	17.3
204751	-41.90001	171.73	2404622	5922399	1991	1	28	19	24	58.09309	1.261	17.3
204752	-41.90001	171.73	2404622	5922399	1991	1	28	19	25	10.90177	1.433	17.3
204753	-41.90001	171.73	2404622	5922399	1991	1	28	19	25	21.93993	2.033	17.3
204754	-41.90001	171.73	2404622	5922399	1991	1	28	19	26	13.3331	1.561	17.3
204755	-41.90001	171.73	2404622	5922399	1991	1	28	19	26	33.39108	1.221	17.3
204756	-41.90001	171.73	2404622	5922399	1991	1	28	19	28	26.93777	1.031	17.3
204757	-41.90001	171.73	2404622	5922399	1991	1	28	19	28	38.00057	1.787	17.3
198743	-41.86681	171.8209	2412117	5926196	1991	1	28	19	29	41.01044	3.057	12
204786	-41.90001	171.73	2404622	5922399	1991	1	28	19	30	44.62491	1.064	17.3
194305	-41.90001	171.73	2404622	5922399	1991	1	28	19	34	55.7164	1.883	17.3

204758	-41.90001	171.73	2404622	5922399	1991	1	28	19	35	22.31879	0.805	17.3
204759	-41.90001	171.73	2404622	5922399	1991	1	28	19	35	37.56081	1.564	17.3
204760	-41.90001	171.73	2404622	5922399	1991	1	28	19	36	20.41611	1.411	17.3
198744	-41.90001	171.73	2404622	5922399	1991	1	28	19	38	8.12063	2.026	17.3
204761	-41.90001	171.73	2404622	5922399	1991	1	28	19	38	39.2005	1.922	17.3
204762	-41.90001	171.73	2404622	5922399	1991	1	28	19	39	1.17184	1.028	17.3
204763	-41.90001	171.73	2404622	5922399	1991	1	28	19	40	16.16779	1.279	17.3
198700	-41.86301	171.6916	2401372	5926460	1991	1	28	19	40	29.43502	2.714	11.2406
204764	-41.90001	171.73	2404622	5922399	1991	1	28	19	42	53.60446	1.837	17.3
198745	-41.89	171.61	2394646	5923354	1991	1	28	19	44	27.85218	1.065	8.2
204787	-41.90001	171.73	2404622	5922399	1991	1	28	19	45	47.12923	0.997	17.3
201751	-41.89	171.61	2394646	5923354	1991	1	28	19	47	35.1572	1.934	8.2
201753	-41.89	171.61	2394646	5923354	1991	1	28	19	49	4.45165	2.232	8.2
198610	-41.92973	171.7812	2408916	5919160	1991	1	28	19	49	36.71463	4.087	14.6188
201752	-41.90847	171.826	2412601	5921574	1991	1	28	19	51	49.07477	2.512	15.1471
201755	-41.90001	171.7	2402132	5922361	1991	1	28	19	55	48.03902	2.144	17
201754	-41.87283	171.6453	2397541	5925309	1991	1	28	19	56	3.17687	3.407	10.0832
201756	-41.90001	171.73	2404622	5922399	1991	1	28	19	56	49.76936	2.583	17.3
201758	-41.90001	171.73	2404622	5922399	1991	1	28	19	59	46.18465	2.442	17.3
201759	-41.90001	171.73	2404622	5922399	1991	1	28	20	0	38.57703	2.234	17.3
196258	-41.93451	171.8066	2411035	5918659	1991	1	28	20	2	10.86218	2.581	15.0574
201760	-41.90001	171.73	2404622	5922399	1991	1	28	20	3	50.8151	1.28	17.3
201761	-41.90001	171.73	2404622	5922399	1991	1	28	20	4	28.75951	2.055	17.3
198747	-41.90001	171.73	2404622	5922399	1991	1	28	20	5	19.07447	1.019	17.3
201767	-41.90001	171.73	2404622	5922399	1991	1	28	20	6	15.0664	1.462	17.3
201769	-41.90001	171.73	2404622	5922399	1991	1	28	20	6	20.93365	1.462	17.3
201768	-41.90001	171.73	2404622	5922399	1991	1	28	20	7	34.27744	1.337	17.3
198748	-41.90001	171.73	2404622	5922399	1991	1	28	20	7	44.43787	1.117	17.3
201770	-41.90001	171.73	2404622	5922399	1991	1	28	20	9	14.44248	2.265	17.3
201772	-41.90001	171.73	2404622	5922399	1991	1	28	20	9	33.72929	1.747	17.3
201771	-41.90001	171.73	2404622	5922399	1991	1	28	20	9	56.01825	0.789	17.3
201773	-41.90001	171.73	2404622	5922399	1991	1	28	20	11	49.59315	1.215	17.3
201775	-41.90001	171.73	2404622	5922399	1991	1	28	20	11	57.5867	1.71	17.3
198701	-41.89647	171.7534	2406555	5922821	1991	1	28	20	12	33.41389	2.94	11.2183
201774	-41.90001	171.73	2404622	5922399	1991	1	28	20	14	11.5249	1.913	17.3
198703	-41.90001	171.73	2404622	5922399	1991	1	28	20	19	22.37809	2.12	17.3

201776	-41.90001	171.73	2404622	5922399	1991	1	28	20	20	4.46178	1.944	17.3
201777	-41.90001	171.73	2404622	5922399	1991	1	28	20	20	51.10674	0.969	17.3
198704	-41.90001	171.73	2404622	5922399	1991	1	28	20	22	53.8254	1.85	17.3
201779	-41.90001	171.73	2404622	5922399	1991	1	28	20	23	57.40363	1.809	17.3
198749	-41.90001	171.73	2404622	5922399	1991	1	28	20	25	23.17688	1.472	17.3
201780	-41.90001	171.73	2404622	5922399	1991	1	28	20	25	52.98312	1.054	17.3
201781	-41.90001	171.73	2404622	5922399	1991	1	28	20	26	7.32369	1.116	17.3
201782	-41.90001	171.73	2404622	5922399	1991	1	28	20	26	25.92163	1.841	17.3
201783	-41.90001	171.73	2404622	5922399	1991	1	28	20	26	59.63961	0.88	17.3
201784	-41.90001	171.73	2404622	5922399	1991	1	28	20	27	30.75543	1.245	17.3
201785	-41.93081	171.7603	2407186	5919015	1991	1	28	20	28	39.11927	3.198	14.3912
201786	-41.90001	171.73	2404622	5922399	1991	1	28	20	29	27.09729	1.849	17.3
201787	-41.90001	171.73	2404622	5922399	1991	1	28	20	29	45.94087	1.687	17.3
201788	-41.90001	171.73	2404622	5922399	1991	1	28	20	30	48.41063	1.581	17.3
201797	-41.90001	171.73	2404622	5922399	1991	1	28	20	31	13.63367	2.231	17.3
201798	-41.90001	171.73	2404622	5922399	1991	1	28	20	32	32.84348	1.36	17.3
201799	-41.90001	171.73	2404622	5922399	1991	1	28	20	33	32.00867	1.198	17.3
198706	-41.90001	171.73	2404622	5922399	1991	1	28	20	34	18.41753	1.839	17.3
201800	-41.90001	171.73	2404622	5922399	1991	1	28	20	34	42.25122	0.962	17.3
201801	-41.90001	171.73	2404622	5922399	1991	1	28	20	35	59.87961	0.824	17.3
201802	-41.90001	171.73	2404622	5922399	1991	1	28	20	36	24.55881	1.06	17.3
201804	-41.90001	171.73	2404622	5922399	1991	1	28	20	36	50.24166	1.835	17.3
201805	-41.90001	171.73	2404622	5922399	1991	1	28	20	37	17.84145	1.089	17.3
198707	-41.90767	171.7799	2408777	5921609	1991	1	28	20	37	25.26936	2.651	10.4803
201803	-41.90001	171.73	2404622	5922399	1991	1	28	20	38	34.92387	2.144	17.3
201806	-41.90001	171.73	2404622	5922399	1991	1	28	20	39	13.8148	0.97	17.3
198708	-41.90001	171.73	2404622	5922399	1991	1	28	20	43	7.44476	1.062	17.3
201807	-41.90001	171.73	2404622	5922399	1991	1	28	20	43	21.15302	2.571	17.3
201809	-41.90001	171.73	2404622	5922399	1991	1	28	20	43	59.12864	1.618	17.3
201810	-41.90001	171.73	2404622	5922399	1991	1	28	20	45	28.09089	2.163	17.3
198709	-41.93327	171.8026	2410697	5918792	1991	1	28	20	46	45.38366	2.655	12.9177
201812	-41.90001	171.73	2404622	5922399	1991	1	28	20	47	29.18868	2.053	17.3
201814	-41.90001	171.73	2404622	5922399	1991	1	28	20	48	22.95766	0.947	17.3
201821	-41.90001	171.73	2404622	5922399	1991	1	28	20	48	51.74312	2.062	17.3
201818	-41.91377	171.8833	2417363	5921050	1991	1	28	20	49	17.47427	2.358	8.8515
198711	-41.89019	171.8433	2414005	5923624	1991	1	28	20	50	4.0807	3.519	13.3046

201827	-41.90001	171.73	2404622	5922399	1991	1	28	20	53	51.06849	1.416	17.3
194309	-41.88949	171.7879	2409407	5923638	1991	1	28	20	54	0.21378	3.666	12.3559
198611	-41.90001	171.73	2404622	5922399	1991	1	28	21	1	19.60667	1.915	17.3
199024	-41.90001	171.73	2404622	5922399	1991	1	28	21	5	44.83697	1.449	17.3
201828	-41.90001	171.73	2404622	5922399	1991	1	28	21	7	34.11694	1.591	17.3
199025	-41.90001	171.73	2404622	5922399	1991	1	28	21	8	28.30796	2.388	17.3
201830	-41.90001	171.73	2404622	5922399	1991	1	28	21	9	10.09719	1.676	17.3
201829	-41.86647	171.6806	2400464	5926061	1991	1	28	21	10	54.6261	2.611	17
201831	-41.90001	171.9	2418728	5922596	1991	1	28	21	11	35.46568	2.458	17
199027	-41.87231	171.6939	2401580	5925430	1991	1	28	21	14	11.55026	2.823	8.7984
199028	-41.90001	171.73	2404622	5922399	1991	1	28	21	19	6.15803	1.811	17.3
201832	-41.90001	171.73	2404622	5922399	1991	1	28	21	20	0.03802	1.582	17.3
201833	-41.90001	171.73	2404622	5922399	1991	1	28	21	20	49.39803	1.415	17.3
199029	-41.90001	171.73	2404622	5922399	1991	1	28	21	22	33.01826	2.022	17.3
199030	-41.93808	171.801	2410572	5918256	1991	1	28	21	25	6.5352	2.729	11.8174
201834	-41.90001	171.73	2404622	5922399	1991	1	28	21	26	23.42848	1.466	17.3
201835	-41.90001	171.73	2404622	5922399	1991	1	28	21	26	53.14848	1.92	17.3
199031	-41.90001	171.73	2404622	5922399	1991	1	28	21	27	50.26871	1.941	17.3
199032	-41.91406	171.7953	2410062	5920918	1991	1	28	21	33	44.42525	2.983	15.9426
201836	-41.90001	171.73	2404622	5922399	1991	1	28	21	34	48.89909	1.295	17.3
201838	-41.90001	171.73	2404622	5922399	1991	1	28	21	35	55.67908	1.696	17.3
201839	-41.90001	171.73	2404622	5922399	1991	1	28	21	36	26.54916	2.465	17.3
201840	-41.90001	171.73	2404622	5922399	1991	1	28	21	37	0.73931	1.207	17.3
194310	-41.92312	171.7477	2406129	5919854	1991	1	28	21	37	36.49804	3.96	15.4112
201842	-41.90001	171.73	2404622	5922399	1991	1	28	21	40	2.40281	1.152	17.3
201843	-41.90001	171.73	2404622	5922399	1991	1	28	21	40	33.29797	1.838	17.3
201844	-41.90001	171.73	2404622	5922399	1991	1	28	21	41	22.13693	2.09	17.3
201845	-41.90001	171.73	2404622	5922399	1991	1	28	21	43	8.66879	0.794	17.3
199034	-41.92635	171.7682	2407834	5919520	1991	1	28	21	44	26.79697	2.538	12
201846	-41.90001	171.73	2404622	5922399	1991	1	28	21	45	46.46291	1.008	17.3
201848	-41.90001	171.73	2404622	5922399	1991	1	28	21	49	34.97628	1.758	17.3
201849	-41.90001	171.73	2404622	5922399	1991	1	28	21	50	6.39559	1.204	17.3
199035	-41.93544	171.8033	2410763	5918552	1991	1	28	21	51	48.73241	2.74	12.3824
201847	-41.92363	171.652	2398194	5919675	1991	1	28	21	52	56.21654	1.797	10.1522
201850	-41.90001	171.73	2404622	5922399	1991	1	28	21	53	41.7872	1.024	17.3
201851	-41.90001	171.73	2404622	5922399	1991	1	28	21	54	16.91534	0.991	17.3

201852	-41.90001	171.73	2404622	5922399	1991	1	28	21	54	25.4133	1.397	17.3
199037	-41.90001	171.73	2404622	5922399	1991	1	28	21	55	43.33055	2.045	17.3
201872	-41.90001	171.73	2404622	5922399	1991	1	28	21	56	7.96673	1.791	17.3
201873	-41.90001	171.73	2404622	5922399	1991	1	28	21	56	35.21864	2.192	17.3
201877	-41.90001	171.73	2404622	5922399	1991	1	28	21	57	17.2458	0.701	17.3
201878	-41.90001	171.73	2404622	5922399	1991	1	28	21	57	24.5761	1.011	17.3
201879	-41.90001	171.73	2404622	5922399	1991	1	28	21	57	39.36557	1.28	17.3
201881	-41.88484	171.8159	2411729	5924187	1991	1	28	21	57	46.36363	2.314	12.194
199038	-41.90001	171.73	2404622	5922399	1991	1	28	21	58	34.44766	1.061	17.3
201882	-41.90001	171.73	2404622	5922399	1991	1	28	22	58	39.76559	1.285	17.3
199039	-41.90001	171.73	2404622	5922399	1991	1	28	22	5	50.9645	1.312	17.3
201883	-41.90001	171.73	2404622	5922399	1991	1	28	22	6	39.13457	1.197	17.3
201884	-41.90001	171.73	2404622	5922399	1991	1	28	22	6	45.92734	1.961	17.3
201885	-41.90001	171.73	2404622	5922399	1991	1	28	22	8	11.88091	2.01	17.3
202165	-41.89	171.61	2394646	5923354	1991	1	28	22	8	54.30701	1.299	8.2
202166	-41.90001	171.73	2404622	5922399	1991	1	28	22	10	8.99173	1.059	17.3
202170	-41.90001	171.73	2404622	5922399	1991	1	28	22	10	59.86523	2.352	17.3
202168	-41.93175	171.7972	2410244	5918955	1991	1	28	22	11	9.97224	2.806	15.3904
202169	-41.90001	171.73	2404622	5922399	1991	1	28	22	13	45.57336	2.25	17.3
202171	-41.90001	171.73	2404622	5922399	1991	1	28	22	15	48.11172	1.831	17.3
199042	-41.90001	171.73	2404622	5922399	1991	1	28	22	16	49.24234	1.468	17.3
202172	-41.90001	171.73	2404622	5922399	1991	1	28	22	17	42.24235	2.317	17.3
194313	-41.86054	171.6648	2399141	5926700	1991	1	28	22	25	19.20858	3.586	8.9184
202173	-41.90001	171.73	2404622	5922399	1991	1	28	22	27	24.25303	1.513	17.3
199043	-41.90001	171.73	2404622	5922399	1991	1	28	22	29	30.26333	1.699	17.3
202174	-41.90001	171.73	2404622	5922399	1991	1	28	22	30	28.26334	1.47	17.3
202175	-41.90001	171.73	2404622	5922399	1991	1	28	22	36	19.74386	1.435	17.3
199044	-41.93782	171.777	2408586	5918257	1991	1	28	22	36	23.20577	3.162	14.3548
199045	-41.90001	171.73	2404622	5922399	1991	1	28	22	39	39.64944	1.589	17.3
194314	-41.8928	171.788	2409424	5923270	1991	1	28	22	42	54.25622	3.425	11.5582
199046	-41.90001	171.73	2404622	5922399	1991	1	28	22	46	18.36462	1.656	17.3
202176	-41.90001	171.73	2404622	5922399	1991	1	28	22	48	33.6046	1.158	17.3
202177	-41.90001	171.73	2404622	5922399	1991	1	28	22	56	51.87537	1.348	17.3
199047	-41.90001	171.73	2404622	5922399	1991	1	28	22	59	39.2556	1.742	17.3
202178	-41.90001	171.73	2404622	5922399	1991	1	28	23	1	5.1556	1.629	17.3
199048	-41.90001	171.73	2404622	5922399	1991	1	28	23	2	24.34583	1.767	17.3

199049	-41.90001	171.73	2404622	5922399	1991	1	28	23	6	50.74606	1.391	17.3
194316	-41.9017	171.7896	2409569	5922284	1991	1	28	23	16	5.48789	2.845	12.601
202179	-41.90001	171.73	2404622	5922399	1991	1	28	23	17	21.21689	1.297	17.3
198770	-41.90001	171.73	2404622	5922399	1991	1	28	23	20	52.9072	2.052	17.3
199050	-41.90001	171.73	2404622	5922399	1991	1	28	23	26	17.18975	2.209	17.3
202180	-41.90001	171.73	2404622	5922399	1991	1	28	23	28	12.26483	1.421	17.3
198771	-41.87578	171.6915	2401385	5925041	1991	1	28	23	29	3.12312	2.989	11.1766
202181	-41.90001	171.73	2404622	5922399	1991	1	28	23	30	22.37788	1.272	17.3
199051	-41.90001	171.73	2404622	5922399	1991	1	28	23	32	42.1981	1.536	17.3
202182	-41.90001	171.73	2404622	5922399	1991	1	28	23	33	44.2181	1.081	17.3
199052	-41.90001	171.73	2404622	5922399	1991	1	28	23	35	23.74062	1.292	17.3
203952	-41.90001	171.73	2404622	5922399	1991	1	28	23	35	26.2699	1.894	17.3
199053	-41.90001	171.73	2404622	5922399	1991	1	28	23	41	32.83879	1.521	17.3
202183	-41.90001	171.73	2404622	5922399	1991	1	28	23	43	4.07879	1.373	17.3
202184	-41.90001	171.73	2404622	5922399	1991	1	28	23	44	0.70244	1.364	17.3
198584	-41.91868	171.7312	2404755	5920327	1991	1	28	23	44	2.07052	2.442	8.7993
202185	-41.90001	171.73	2404622	5922399	1991	1	28	23	46	20.19901	1.473	17.3
199054	-41.94475	171.795	2410089	5917508	1991	1	28	23	46	57.01952	2.461	17
199055	-41.90001	171.73	2404622	5922399	1991	1	28	23	49	43.78939	1.328	17.3
202186	-41.90001	171.73	2404622	5922399	1991	1	28	23	50	12.44939	1.46	17.3
199056	-41.90001	171.73	2404622	5922399	1991	1	29	0	9	32.19091	0.929	17.3
202561	-41.90001	171.73	2404622	5922399	1991	1	29	0	10	37.52829	1.02	17.3
199057	-41.90001	171.73	2404622	5922399	1991	1	29	0	14	20.57128	1.024	17.3
202562	-41.90001	171.73	2404622	5922399	1991	1	29	0	15	7.94724	1.92	17.3
202563	-41.90001	171.73	2404622	5922399	1991	1	29	0	15	54.4826	1.748	17.3
199058	-41.90001	171.73	2404622	5922399	1991	1	29	0	17	24.8455	2.207	17.3
202564	-41.90001	171.73	2404622	5922399	1991	1	29	0	18	55.64152	1.407	17.3
202565	-41.90001	171.73	2404622	5922399	1991	1	29	0	19	33.25256	1.747	17.3
199059	-41.90001	171.73	2404622	5922399	1991	1	29	0	21	11.26173	1.536	17.3
198772	-41.90001	171.73	2404622	5922399	1991	1	29	0	23	55.74204	1.649	17.3
199060	-41.90001	171.73	2404622	5922399	1991	1	29	0	26	52.45227	1.669	17.3
199061	-41.90001	171.73	2404622	5922399	1991	1	29	0	35	29.56288	2.001	17.3
202566	-41.90001	171.73	2404622	5922399	1991	1	29	0	36	15.90288	1.423	17.3
199062	-41.90001	171.73	2404622	5922399	1991	1	29	0	38	12.99723	1.863	17.3
198773	-41.90001	171.73	2404622	5922399	1991	1	29	0	43	13.33348	1.448	17.3
202567	-41.90001	171.73	2404622	5922399	1991	1	29	0	44	32.29348	1.558	17.3

199063	-41.90001	171.73	2404622	5922399	1991	1	29	0	50	19.00401	1.56	17.3
202568	-41.90001	171.73	2404622	5922399	1991	1	29	0	50	38.90401	1.708	17.3
199064	-41.90001	171.73	2404622	5922399	1991	1	29	0	56	59.92454	1.428	17.3
202569	-41.90001	171.73	2404622	5922399	1991	1	29	0	59	14.49422	1.246	17.3
199065	-41.90001	171.73	2404622	5922399	1991	1	29	1	2	9.69492	1.04	17.3
202570	-41.90001	171.73	2404622	5922399	1991	1	29	1	2	55.18398	1.746	17.3
198612	-41.90001	171.73	2404622	5922399	1991	1	29	1	8	35.18537	1.928	17.3
199066	-41.90001	171.73	2404622	5922399	1991	1	29	1	11	13.31107	1.453	17.3
202571	-41.90001	171.73	2404622	5922399	1991	1	29	1	15	59.02043	2.299	17.3
199067	-41.90001	171.73	2404622	5922399	1991	1	29	1	21	29.95636	1.206	17.3
202572	-41.90001	171.73	2404622	5922399	1991	1	29	1	23	11.6387	1.976	17.3
199068	-41.90001	171.73	2404622	5922399	1991	1	29	1	26	42.70435	1.549	17.3
199069	-41.90001	171.73	2404622	5922399	1991	1	29	1	30	20.23875	1.683	17.3
202573	-41.90001	171.73	2404622	5922399	1991	1	29	1	30	48.74704	1.268	17.3
199070	-41.90001	171.73	2404622	5922399	1991	1	29	1	32	58.10833	1.31	17.3
198774	-41.90001	171.73	2404622	5922399	1991	1	29	1	35	39.00105	1.609	17.3
202574	-41.90001	171.73	2404622	5922399	1991	1	29	1	37	38.3185	1.098	17.3
199071	-41.90001	171.73	2404622	5922399	1991	1	29	1	46	17.80366	2.19	17.3
202575	-41.90001	171.73	2404622	5922399	1991	1	29	1	46	54.806	1.229	17.3
202576	-41.90001	171.73	2404622	5922399	1991	1	29	1	47	10.79856	1.066	17.3
202577	-41.90001	171.73	2404622	5922399	1991	1	29	1	47	42.28493	1.993	17.3
199072	-41.88895	171.7074	2402724	5923599	1991	1	29	1	50	20.21697	2.556	10.36
199073	-41.90001	171.73	2404622	5922399	1991	1	29	1	53	33.63879	1.235	17.3
202578	-41.90001	171.73	2404622	5922399	1991	1	29	1	54	14.80186	1.673	17.3
199074	-41.90001	171.73	2404622	5922399	1991	1	29	1	56	56.69909	0.976	17.3
199075	-41.90001	171.73	2404622	5922399	1991	1	29	2	0	42.89415	1.786	17.3
202579	-41.90001	171.73	2404622	5922399	1991	1	29	2	4	25.51486	1.541	17.3
199076	-41.90001	171.73	2404622	5922399	1991	1	29	2	10	43.90663	1.814	17.3
202580	-41.90001	171.73	2404622	5922399	1991	1	29	2	12	27.17751	1.676	17
199077	-41.90001	171.73	2404622	5922399	1991	1	29	2	14	31.88075	2.118	17.3
202581	-41.90001	171.73	2404622	5922399	1991	1	29	2	15	52.86161	1.099	17.3
202582	-41.90001	171.73	2404622	5922399	1991	1	29	2	16	41.3857	1.443	17.3
198775	-41.90001	171.73	2404622	5922399	1991	1	29	2	18	40.30068	1.026	17.3
202583	-41.90001	171.73	2404622	5922399	1991	1	29	2	19	51.10522	1.283	17.3
198776	-41.90001	171.73	2404622	5922399	1991	1	29	2	24	38.05114	1.506	17.3
199078	-41.90001	171.73	2404622	5922399	1991	1	29	2	39	9.14398	1.224	17.3

199079	-41.90001	171.73	2404622	5922399	1991	1	29	2	43	34.89257	1.091	17.3
199080	-41.90001	171.73	2404622	5922399	1991	1	29	2	48	35.60899	1.594	17.3
199081	-41.90001	171.73	2404622	5922399	1991	1	29	2	52	16.12376	1.127	17.3
203927	-41.90001	171.73	2404622	5922399	1991	1	29	2	52	41.59556	1.334	17.3
198210	-41.90001	171.73	2404622	5922399	1991	1	29	2	59	26.90474	1.324	17.3
202584	-41.94755	171.7928	2409908	5917195	1991	1	29	3	1	39.85299	2.524	14.9458
198777	-41.90001	171.73	2404622	5922399	1991	1	29	3	14	36.09492	1.769	17.3
202586	-41.90001	171.73	2404622	5922399	1991	1	29	3	14	51.51492	1.507	17.3
202587	-41.85298	171.587	2392667	5927434	1991	1	29	3	15	51.04202	2.241	8.2673
199083	-41.90001	171.73	2404622	5922399	1991	1	29	3	18	48.0386	1.427	17.3
202588	-41.90001	171.73	2404622	5922399	1991	1	29	3	18	54.47028	1.517	17.3
202589	-41.90001	171.73	2404622	5922399	1991	1	29	3	20	49.49756	1.609	17.3
199084	-41.90001	171.73	2404622	5922399	1991	1	29	3	22	17.39023	1.479	17.3
199085	-41.90001	171.73	2404622	5922399	1991	1	29	3	25	3.34059	2.267	17.3
202590	-41.90001	171.73	2404622	5922399	1991	1	29	3	27	3.27931	1.054	17.3
199086	-41.90001	171.73	2404622	5922399	1991	1	29	3	28	58.58513	2.272	17.3
202591	-41.90001	171.73	2404622	5922399	1991	1	29	3	29	43.37828	1.005	17.3
202592	-41.90001	171.73	2404622	5922399	1991	1	29	3	30	3.15042	1.529	17.3
199087	-41.90001	171.73	2404622	5922399	1991	1	29	3	43	26.04374	2.067	17.3
202593	-41.90001	171.73	2404622	5922399	1991	1	29	3	44	50.89712	1.112	17.3
202594	-41.90001	171.73	2404622	5922399	1991	1	29	3	45	40.64818	1.374	17.3
199088	-41.89309	171.8095	2411210	5923263	1991	1	29	3	46	42.27342	2.827	13.5474
199089	-41.90001	171.73	2404622	5922399	1991	1	29	3	50	22.14536	2.072	17
202595	-41.88341	171.8032	2410668	5924331	1991	1	29	3	50	41.4054	3.001	15.785
202596	-41.89169	171.827	2412661	5923439	1991	1	29	3	52	46.27393	2.692	15.5571
199091	-41.89	171.61	2394646	5923354	1991	1	29	3	57	4.21345	1.303	8.2
202597	-41.90001	171.73	2404622	5922399	1991	1	29	3	58	52.27818	1.346	17.3
199092	-41.90001	171.73	2404622	5922399	1991	1	29	4	1	24.48848	1.454	17.3
199093	-41.90001	171.73	2404622	5922399	1991	1	29	4	11	30.89924	1.825	17.3
202598	-41.90001	171.73	2404622	5922399	1991	1	29	4	13	15.49922	1.351	17.3
199094	-41.89	171.61	2394646	5923354	1991	1	29	4	14	4.09498	2.167	8.2
199095	-41.90001	171.73	2404622	5922399	1991	1	29	4	21	4.61	1.346	17.3
202599	-41.89	171.61	2394646	5923354	1991	1	29	4	21	41.76527	0.945	8.2
202600	-41.89	171.61	2394646	5923354	1991	1	29	4	22	1.02527	1.158	8.2
199096	-41.89	171.61	2394646	5923354	1991	1	29	4	26	13.82564	1.007	8.2
202601	-41.89	171.61	2394646	5923354	1991	1	29	4	26	47.04565	1.363	8.2

199097	-41.89	171.61	2394646	5923354	1991	1	29	4	32	12.4561	2.032	8.2
202602	-41.89	171.61	2394646	5923354	1991	1	29	4	33	44.5761	1.345	8.2
199098	-41.89	171.61	2394646	5923354	1991	1	29	4	36	17.6364	1.276	8.2
202603	-41.89	171.61	2394646	5923354	1991	1	29	4	37	20.6164	2.029	8.2
199099	-41.89	171.61	2394646	5923354	1991	1	29	4	40	44.4667	1.521	8.2
198778	-41.89	171.61	2394646	5923354	1991	1	29	4	45	41.92709	1.465	8.2
202604	-41.89	171.61	2394646	5923354	1991	1	29	4	46	5.96709	1.715	8.2
199100	-41.89	171.61	2394646	5923354	1991	1	29	4	54	26.91777	1.614	8.2
199101	-41.8943	171.8507	2414631	5923176	1991	1	29	4	58	14.04883	2.386	10.5627
202605	-41.89	171.61	2394646	5923354	1991	1	29	5	0	37.58807	2.099	8.2
202606	-41.89	171.61	2394646	5923354	1991	1	29	5	1	47.46806	1.856	8.2
198436	-41.89	171.61	2394646	5923354	1991	1	29	5	9	53.41898	1.22	8.2
203057	-41.89	171.61	2394646	5923354	1991	1	29	5	10	9.01898	1.272	8.2
203058	-41.89	171.61	2394646	5923354	1991	1	29	5	10	55.53898	0.935	8.2
199103	-41.89	171.61	2394646	5923354	1991	1	29	5	12	21.37913	2.163	8.2
199104	-41.89	171.61	2394646	5923354	1991	1	29	5	17	25.76951	1.149	8.2
203059	-41.89	171.61	2394646	5923354	1991	1	29	5	21	42.32981	1.322	8.2
199105	-41.89206	171.7292	2404541	5923281	1991	1	29	5	23	44.06107	2.488	8.3213
199107	-41.89	171.61	2394646	5923354	1991	1	29	5	29	12.04042	1.287	8.2
199108	-41.89	171.61	2394646	5923354	1991	1	29	5	41	58.1514	1.917	8.2
199109	-41.89	171.61	2394646	5923354	1991	1	29	5	44	37.62156	1.657	8.2
203061	-41.89	171.61	2394646	5923354	1991	1	29	5	45	38.12156	1.435	8.2
198437	-41.89	171.61	2394646	5923354	1991	1	29	5	49	35.26193	1.715	8.2
203062	-41.89	171.61	2394646	5923354	1991	1	29	5	50	0.34193	1.184	8.2
203063	-41.89	171.61	2394646	5923354	1991	1	29	5	51	6.96193	0.96	8.2
199111	-41.89	171.61	2394646	5923354	1991	1	29	5	56	10.97246	1.05	8.2
199112	-41.9132	171.8008	2410518	5921020	1991	1	29	5	58	52.27034	2.699	10.856
199113	-41.89	171.61	2394646	5923354	1991	1	29	6	4	50.36307	1.321	8.2
203065	-41.89	171.61	2394646	5923354	1991	1	29	6	5	25.62307	1.209	8.2
199115	-41.93757	171.7042	2402542	5918195	1991	1	29	6	10	35.12111	2.502	12
199116	-41.89	171.61	2394646	5923354	1991	1	29	6	15	4.1739	1.119	8.2
203066	-41.89	171.61	2394646	5923354	1991	1	29	6	16	21.9739	0.86	8.2
199117	-41.89	171.61	2394646	5923354	1991	1	29	6	22	2.18443	1.667	8.2
199118	-41.89	171.61	2394646	5923354	1991	1	29	6	28	42.65489	1.388	8.2
199119	-41.89	171.61	2394646	5923354	1991	1	29	6	48	3.0964	1.209	8.2
203067	-41.89	171.61	2394646	5923354	1991	1	29	6	48	23.5564	1.025	8.2

199120	-41.89	171.61	2394646	5923354	1991	1	29	6	52	8.66671	1.593	8.2
199122	-41.89	171.61	2394646	5923354	1991	1	29	7	1	2.21735	2.19	8.2
199123	-41.89	171.61	2394646	5923354	1991	1	29	7	3	44.19744	1.5	8.2
199124	-41.89	171.61	2394646	5923354	1991	1	29	7	10	6.92773	1.476	8.2
199125	-41.89	171.61	2394646	5923354	1991	1	29	7	16	34.67798	2.159	8.2
199126	-41.89	171.61	2394646	5923354	1991	1	29	7	27	12.53263	2.412	8.2
199127	-41.89	171.61	2394646	5923354	1991	1	29	7	33	6.59869	1.7	8.2
199128	-41.89	171.61	2394646	5923354	1991	1	29	7	39	40.91894	1.673	8.2
203068	-41.89	171.61	2394646	5923354	1991	1	29	8	43	15.54911	1.138	8.2
199129	-41.89	171.61	2394646	5923354	1991	1	29	8	2	54.26994	1.137	8.2
199130	-41.89	171.61	2394646	5923354	1991	1	29	8	11	9.71027	1.507	8.2
203069	-41.89	171.61	2394646	5923354	1991	1	29	8	13	29.75026	1.695	8.2
203070	-41.89	171.61	2394646	5923354	1991	1	29	8	15	46.67039	0.999	8.2
199132	-41.89071	171.6465	2397679	5923324	1991	1	29	8	21	4.23568	2.479	10.4973
199133	-41.89	171.61	2394646	5923354	1991	1	29	8	26	29.53089	1.386	8.2
199134	-41.89	171.61	2394646	5923354	1991	1	29	8	32	59.31119	1.78	8.2
203071	-41.89	171.61	2394646	5923354	1991	1	29	8	34	29.05119	1.382	8.2
199135	-41.89	171.61	2394646	5923354	1991	1	29	8	36	21.92857	2.157	8.2
199136	-41.89	171.61	2394646	5923354	1991	1	29	8	43	13.5316	2.105	8.2
203072	-41.89	171.61	2394646	5923354	1991	1	29	8	44	18.3916	1.511	8.2
203074	-41.89	171.61	2394646	5923354	1991	1	29	8	50	36.9019	1.938	8.2
203075	-41.89	171.61	2394646	5923354	1991	1	29	8	54	10.6619	1.238	8.2
203073	-41.8906	171.7306	2404652	5923445	1991	1	29	8	54	43.53345	2.657	8.871
199138	-41.89	171.61	2394646	5923354	1991	1	29	8	57	1.91219	1.438	8.2
199140	-41.89	171.61	2394646	5923354	1991	1	29	9	6	16.85089	1.77	8.2
199141	-41.89	171.61	2394646	5923354	1991	1	29	9	12	3.61281	1.8	8.2
203096	-41.89	171.61	2394646	5923354	1991	1	29	9	13	19.65281	1.293	8.2
199142	-41.90001	171.73	2404622	5922399	1991	1	29	9	22	29.64796	1.504	17.3
203697	-41.90001	171.73	2404622	5922399	1991	1	29	9	23	7.80796	1.104	17.3
199143	-41.90001	171.73	2404622	5922399	1991	1	29	9	31	20.13297	1.488	17.3
199144	-41.90001	171.73	2404622	5922399	1991	1	29	9	37	38.61679	1.453	17.3
203698	-41.91296	171.6876	2401122	5920907	1991	1	29	9	39	48.77371	2.334	10.132
199146	-41.90001	171.73	2404622	5922399	1991	1	29	9	44	25.75332	2.242	17.3
198439	-41.90001	171.73	2404622	5922399	1991	1	29	9	52	57.3437	1.903	17.3
199147	-41.90001	171.73	2404622	5922399	1991	1	29	9	59	29.8637	1.089	17.3
203699	-41.90001	171.73	2404622	5922399	1991	1	29	9	59	48.2289	1.149	17.3

203700	-41.90001	171.73	2404622	5922399	1991	1	29	10	0	23.12404	0.997	17.3
198211	-41.90001	171.73	2404622	5922399	1991	1	29	10	5	4.62218	1.041	17.3
199148	-41.90001	171.73	2404622	5922399	1991	1	29	10	13	34.06009	1.128	17.3
199149	-41.90001	171.73	2404622	5922399	1991	1	29	10	16	45.06927	1.376	17.3
203701	-41.90001	171.73	2404622	5922399	1991	1	29	10	17	16.33022	0.798	17.3
203702	-41.90001	171.73	2404622	5922399	1991	1	29	10	17	56.67022	1.38	17.3
199150	-41.90001	171.73	2404622	5922399	1991	1	29	10	22	36.62046	1.076	17.3
199151	-41.90001	171.73	2404622	5922399	1991	1	29	10	40	59.95093	1.352	17.3
199152	-41.90001	171.73	2404622	5922399	1991	1	29	10	44	28.07137	1.048	17.3
199153	-41.90001	171.73	2404622	5922399	1991	1	29	10	49	52.16159	0.927	17.3
203703	-41.90001	171.73	2404622	5922399	1991	1	29	10	50	37.46159	1.07	17.3
199154	-41.91137	171.7967	2410176	5921218	1991	1	29	10	55	19.3231	2.706	10.4485
199155	-41.90001	171.73	2404622	5922399	1991	1	29	10	59	0.892	1.844	17.3
199156	-41.90001	171.73	2404622	5922399	1991	1	29	11	5	34.06205	1.543	17.3
199157	-41.90001	171.73	2404622	5922399	1991	1	29	11	10	21.91108	0.947	17.3
203704	-41.89	171.61	2394646	5923354	1991	1	29	11	11	48.02331	1.205	8.2
203705	-41.90001	171.73	2404622	5922399	1991	1	29	11	17	12.77203	1.764	17.3
199159	-41.90001	171.73	2404622	5922399	1991	1	29	11	21	50.02205	0.905	17.3
199160	-41.90001	171.73	2404622	5922399	1991	1	29	11	26	28.93204	0.945	17.3
199161	-41.90001	171.73	2404622	5922399	1991	1	29	11	33	37.4994	1.655	17.3
199162	-41.90001	171.73	2404622	5922399	1991	1	29	11	36	16.99087	0.973	17.3
203706	-41.90001	171.73	2404622	5922399	1991	1	29	11	38	23.2175	1.609	17.3
203707	-41.90001	171.73	2404622	5922399	1991	1	29	11	38	32.39056	1.57	17.3
199163	-41.90001	171.73	2404622	5922399	1991	1	29	11	38	57.87204	1.048	17.3
197938	-41.8838	171.6482	2397804	5924094	1991	1	29	11	46	6.10887	3.552	8.73
203708	-41.92142	171.7724	2408177	5920073	1991	1	29	11	48	22.18536	2.728	12.1048
203709	-41.90001	171.73	2404622	5922399	1991	1	29	11	49	30.17567	1.424	17.3
203710	-41.90001	171.73	2404622	5922399	1991	1	29	11	49	39.72203	1.893	17.3
199164	-41.90001	171.73	2404622	5922399	1991	1	29	11	54	24.77204	1.359	17.3
203712	-41.90001	171.73	2404622	5922399	1991	1	29	11	56	11.77203	1.545	17.3
199165	-41.90001	171.73	2404622	5922399	1991	1	29	12	6	8.47204	1.434	17.3
199166	-41.90001	171.73	2404622	5922399	1991	1	29	12	23	44.27282	1.468	17.3
199167	-41.90001	171.73	2404622	5922399	1991	1	29	12	30	26.93658	1.32	17.3
199168	-41.90001	171.73	2404622	5922399	1991	1	29	12	41	31.08204	1.529	17.3
203713	-41.90001	171.73	2404622	5922399	1991	1	29	12	42	25.84669	1.334	17.3
199169	-41.90001	171.73	2404622	5922399	1991	1	29	12	52	5.6031	1.627	17.3

203714	-41.90001	171.73	2404622	5922399	1991	1	29	12	53	51.66204	1.341	17.3
199170	-41.90001	171.73	2404622	5922399	1991	1	29	12	54	47.14127	1.016	17.3
203715	-41.90001	171.73	2404622	5922399	1991	1	29	12	55	42.54205	2.085	17.3
203716	-41.90001	171.73	2404622	5922399	1991	1	29	12	56	12.82292	1.161	17.3
199171	-41.90001	171.73	2404622	5922399	1991	1	29	13	1	55.61205	1.399	17.3
199172	-41.90001	171.73	2404622	5922399	1991	1	29	13	9	48.58205	0.903	17.3
203717	-41.90001	171.73	2404622	5922399	1991	1	29	13	10	5.00204	1.043	17.3
203718	-41.90001	171.73	2404622	5922399	1991	1	29	13	11	1.22205	0.89	17.3
203719	-41.86561	171.7336	2404863	5926224	1991	1	29	13	14	53.09657	2.398	17.3
197940	-41.86855	171.6797	2400396	5925829	1991	1	29	13	15	53.93387	3.322	10.5275
203720	-41.90001	171.73	2404622	5922399	1991	1	29	13	17	54.07204	1.508	17.3
203721	-41.90001	171.73	2404622	5922399	1991	1	29	13	19	10.31203	1.973	17.3
199173	-41.90001	171.73	2404622	5922399	1991	1	29	13	20	55.82204	1.519	17.3
199174	-41.90001	171.73	2404622	5922399	1991	1	29	13	23	28.85204	1.828	17.3
198441	-41.90001	171.73	2404622	5922399	1991	1	29	13	32	57.88204	1.564	17.3
199175	-41.90001	171.73	2404622	5922399	1991	1	29	13	43	27.04204	1.85	17.3
199176	-41.90001	171.73	2404622	5922399	1991	1	29	13	48	24.10204	0.928	17.3
203777	-41.90001	171.73	2404622	5922399	1991	1	29	13	49	52.06205	1.754	17.3
199177	-41.93165	171.836	2413464	5919011	1991	1	29	13	51	45.25057	2.405	10.6622
203778	-41.90001	171.73	2404622	5922399	1991	1	29	13	52	27.23205	1.649	17.3
203779	-41.90001	171.73	2404622	5922399	1991	1	29	13	53	1.89204	1.046	17.3
199178	-41.90001	171.73	2404622	5922399	1991	1	29	13	54	26.85204	1.269	17.3
203780	-41.90001	171.73	2404622	5922399	1991	1	29	14	2	39.37205	0.865	17.3
199179	-41.90001	171.73	2404622	5922399	1991	1	29	14	6	0.93204	1.694	17.3
197942	-41.85514	171.6441	2397416	5927272	1991	1	29	14	10	24.49109	4.541	10.7038
203958	-41.90001	171.73	2404622	5922399	1991	1	29	14	14	27.47375	1.604	17.3
199180	-41.90001	171.73	2404622	5922399	1991	1	29	14	17	6.9165	2.499	17.3
203963	-41.90001	171.73	2404622	5922399	1991	1	29	14	17	50.07204	1.24	17.3
203964	-41.90001	171.73	2404622	5922399	1991	1	29	14	18	38.17204	1.115	17.3
199181	-41.90001	171.73	2404622	5922399	1991	1	29	14	20	19.55204	1.035	17.3
203999	-41.90001	171.73	2404622	5922399	1991	1	29	14	20	37.79204	1.575	17.3
204000	-41.90001	171.73	2404622	5922399	1991	1	29	14	21	17.79205	2.159	17.3
199182	-41.90001	171.73	2404622	5922399	1991	1	29	14	23	43.14204	0.962	17.3
199183	-41.88718	171.7229	2404011	5923815	1991	1	29	14	27	16.50966	2.418	8.649
204024	-41.90001	171.73	2404622	5922399	1991	1	29	14	28	45.20204	1.418	17.3
199184	-41.9198	171.7337	2404963	5920205	1991	1	29	14	33	53.37466	2.405	8

204094	-41.90001	171.73	2404622	5922399	1991	1	29	14	34	32.19203	1.484	17.3
204096	-41.90001	171.73	2404622	5922399	1991	1	29	14	35	18.21759	2.376	17.3
199186	-41.90001	171.73	2404622	5922399	1991	1	29	14	46	34.35205	0.953	17.3
199187	-41.90001	171.73	2404622	5922399	1991	1	29	14	50	35.38205	1.536	17.3
199188	-41.90001	171.73	2404622	5922399	1991	1	29	14	53	38.99825	2.318	17.3
199189	-41.90001	171.73	2404622	5922399	1991	1	29	14	56	24.71204	1.193	17.3
204147	-41.90001	171.73	2404622	5922399	1991	1	29	14	57	34.97205	1.446	17.3
199190	-41.90001	171.73	2404622	5922399	1991	1	29	14	59	17.53204	1.69	17.3
199191	-41.90001	171.73	2404622	5922399	1991	1	29	15	2	40.09543	2.269	17.3
204178	-41.90001	171.73	2404622	5922399	1991	1	29	15	3	10.88205	1.14	17.3
204192	-41.90001	171.73	2404622	5922399	1991	1	29	15	8	11.70204	1.267	17.3
204194	-41.92033	171.8153	2411730	5920245	1991	1	29	15	9	30.6205	2.604	7.9168
199193	-41.90001	171.73	2404622	5922399	1991	1	29	15	12	25.39204	1.638	17.3
199194	-41.90001	171.73	2404622	5922399	1991	1	29	15	24	52.87	1.373	17.3
199195	-41.90001	171.73	2404622	5922399	1991	1	29	15	27	54.03851	1.894	17.3
199196	-41.84782	171.8729	2416402	5928364	1991	1	29	15	31	45.44973	2.326	9.0298
199197	-41.90001	171.73	2404622	5922399	1991	1	29	15	44	43.22205	0.878	17.3
199198	-41.90001	171.73	2404622	5922399	1991	1	29	15	47	56.69799	2.372	17.3
199199	-41.90001	171.73	2404622	5922399	1991	1	29	15	52	15.65282	1.444	17.3
199200	-41.90001	171.73	2404622	5922399	1991	1	29	15	57	0.63668	1.923	17.3
199201	-41.90001	171.73	2404622	5922399	1991	1	29	15	59	39.81205	1.145	17.3
199202	-41.90001	171.73	2404622	5922399	1991	1	29	16	8	4.97204	0.965	17.3
199203	-41.90001	171.73	2404622	5922399	1991	1	29	16	10	56.30204	1.723	17.3
199205	-41.90001	171.73	2404622	5922399	1991	1	29	16	29	22.10204	1.98	17.3
199206	-41.90001	171.73	2404622	5922399	1991	1	29	16	52	10.56439	1.284	17.3
199207	-41.90001	171.73	2404622	5922399	1991	1	29	16	56	47.05057	1.886	17.3
199208	-41.85838	171.7542	2406560	5927053	1991	1	29	17	0	11.46645	2.548	9.0528
199209	-41.90001	171.73	2404622	5922399	1991	1	29	17	15	10.54299	1.754	17.3
199210	-41.90001	171.73	2404622	5922399	1991	1	29	17	18	10.38204	1.642	17.3
199211	-41.90001	171.73	2404622	5922399	1991	1	29	17	40	18.76312	0.973	17.3
204286	-41.90001	171.73	2404622	5922399	1991	1	29	17	42	5.62255	1.465	17.3
204288	-41.90001	171.73	2404622	5922399	1991	1	29	17	44	0.55688	1.417	17.3
204287	-41.8934	171.7074	2402734	5923105	1991	1	29	17	45	44.34334	2.685	9.6073
199213	-41.90001	171.73	2404622	5922399	1991	1	29	17	55	7.12453	0.923	17.3
199214	-41.90001	171.73	2404622	5922399	1991	1	29	17	58	32.27438	1.778	17.3
199215	-41.90001	171.73	2404622	5922399	1991	1	29	18	10	42.98178	1.444	17.3

204313	-41.90001	171.73	2404622	5922399	1991	1	29	18	12	10.21204	2.116	17.3
199216	-41.90001	171.73	2404622	5922399	1991	1	29	18	19	8.65356	1.467	17.3
199217	-41.90001	171.73	2404622	5922399	1991	1	29	18	24	0.96466	1.79	17.3
204317	-41.90001	171.73	2404622	5922399	1991	1	29	18	25	34.44372	1.435	17.3
199218	-41.90001	171.73	2404622	5922399	1991	1	29	18	27	50.88457	1.052	17.3
199219	-41.90001	171.73	2404622	5922399	1991	1	29	18	39	7.35366	1.289	17.3
204318	-41.90001	171.73	2404622	5922399	1991	1	29	18	39	30.3907	1.555	17.3
197946	-41.8754	171.6456	2397575	5925024	1991	1	29	18	48	55.32181	3.945	9.0711
199220	-41.90001	171.73	2404622	5922399	1991	1	29	18	54	28.23668	1.765	17.3
204319	-41.90001	171.73	2404622	5922399	1991	1	29	18	56	46.77388	2.125	17.3
204320	-41.90001	171.73	2404622	5922399	1991	1	29	18	58	26.60916	1.435	17.3
199223	-41.90001	171.73	2404622	5922399	1991	1	29	19	10	47.95205	1.457	17.3
199224	-41.90001	171.73	2404622	5922399	1991	1	29	19	19	43.65282	1.663	17.3
199225	-41.90001	171.73	2404622	5922399	1991	1	29	19	40	42.58205	2.319	17.3
204323	-41.90001	171.73	2404622	5922399	1991	1	29	19	45	24.69312	1.914	17.3
199227	-41.90001	171.73	2404622	5922399	1991	1	29	19	47	15.93204	1.226	17.3
198445	-41.90001	171.73	2404622	5922399	1991	1	29	19	55	24.02205	1.762	17.3
204325	-41.90001	171.73	2404622	5922399	1991	1	29	20	0	25.51204	0.901	17.3
204326	-41.90001	171.73	2404622	5922399	1991	1	29	20	1	31.01205	1.342	17.3
204327	-41.90001	171.73	2404622	5922399	1991	1	29	20	2	3.02745	1.391	17.3
199228	-41.90001	171.73	2404622	5922399	1991	1	29	20	20	41.00686	1.109	17.3
204432	-41.90001	171.73	2404622	5922399	1991	1	29	20	22	33.41866	1.11	17.3
199229	-41.86263	171.7215	2403852	5926540	1991	1	29	20	24	43.48611	2.643	7.3019
204433	-41.90001	171.73	2404622	5922399	1991	1	29	20	26	23.2067	2.272	17.3
199230	-41.90001	171.73	2404622	5922399	1991	1	29	20	29	9.43376	1.326	17.3
199231	-41.90001	171.73	2404622	5922399	1991	1	29	20	32	27.09952	1.118	17.3
199232	-41.90001	171.73	2404622	5922399	1991	1	29	20	57	11.17126	1.889	17.3
199233	-41.92077	171.7475	2406104	5920115	1991	1	29	21	3	9.41319	2.518	9.6337
199236	-41.89	171.61	2394646	5923354	1991	1	29	21	17	3.51361	1.708	8.2
197948	-41.89119	171.6762	2400143	5923310	1991	1	29	21	19	39.07148	3.671	9.5932
198591	-41.90001	171.73	2404622	5922399	1991	1	29	21	30	59.63824	1.387	17.3
199237	-41.9049	171.7227	2404021	5921847	1991	1	29	21	40	23.2095	2.333	10.7008
199240	-41.91235	171.8786	2416970	5921203	1991	1	29	22	11	23.54558	1.682	16.4678
199241	-41.87857	171.7407	2405471	5924793	1991	1	29	22	20	9.60993	1.848	8.7324
198615	-41.90001	171.73	2404622	5922399	1991	1	29	22	23	45.81204	1.279	17.3
199244	-41.88677	171.7436	2405727	5923886	1991	1	29	22	42	13.97434	2.253	9.4374

204435	-41.90001	171.73	2404622	5922399	1991	1	29	22	44	18.0891	1.33	17.3
199245	-41.90001	171.73	2404622	5922399	1991	1	29	22	49	38.25513	1.877	17.3
204436	-41.90001	171.73	2404622	5922399	1991	1	29	22	50	10.62912	2.013	17.3
199246	-41.89696	171.7316	2404753	5922740	1991	1	29	22	51	32.19141	2.136	9.7641
198616	-41.90001	171.73	2404622	5922399	1991	1	29	22	57	6.21204	2.019	17.3
198594	-41.87984	171.7355	2405042	5924646	1991	1	29	23	15	7.78958	2.054	6.8337
199247	-41.91676	171.776	2408466	5920595	1991	1	29	23	31	9.67092	2.354	10.8019
199248	-41.85541	171.9786	2425190	5927632	1991	1	29	23	36	25.36219	1.853	14.8355
198560	-41.88639	171.9629	2423926	5924175	1991	1	29	23	51	30.34113	2.31	18.0634
199249	-41.8786	171.7514	2406363	5924803	1991	1	30	0	6	49.10279	1.544	8
199250	-41.88196	171.7102	2402945	5924379	1991	1	30	0	9	47.72203	2.493	8.4696
199251	-41.88762	171.9403	2422057	5924015	1991	1	30	0	27	32.71434	2.466	19.7069
199252	-41.90001	171.73	2404622	5922399	1991	1	30	0	35	2.31354	1.765	17.3
199253	-41.90001	171.73	2404622	5922399	1991	1	30	0	48	39.80651	1.469	17.3
204438	-41.89131	171.7404	2405472	5923378	1991	1	30	1	9	45.89393	1.911	12.9195
199254	-41.90001	171.73	2404622	5922399	1991	1	30	1	16	21.89127	1.224	17.3
199255	-41.89	171.61	2394646	5923354	1991	1	30	1	20	48.05732	1.748	8.2
197954	-41.90001	171.73	2404622	5922399	1991	1	30	2	8	22.16338	1.211	17.3
199257	-41.9353	171.7894	2409610	5918551	1991	1	30	2	11	31.84182	1.803	13.1664
198447	-41.89035	171.8266	2412621	5923588	1991	1	30	2	32	48.0036	1.236	15.9346
199259	-41.9073	171.7061	2402651	5921559	1991	1	30	3	8	4.25651	2.769	9.8592
199261	-41.90001	171.73	2404622	5922399	1991	1	30	3	33	22.80551	1.467	17.3
204504	-41.90001	171.73	2404622	5922399	1991	1	30	3	35	13.31023	1.375	17.3
199262	-41.90001	171.73	2404622	5922399	1991	1	30	3	50	22.39204	1.482	17.3
204522	-41.90665	171.8179	2411928	5921767	1991	1	30	3	52	20.24155	2.703	8
198597	-41.93182	171.4827	2384165	5918528	1991	1	30	3	53	7.77847	2.235	14.5671
204533	-41.90003	171.6893	2401246	5922345	1991	1	30	3	55	17.05076	3.083	8.1287
199263	-41.90001	171.73	2404622	5922399	1991	1	30	3	59	20.49692	1.513	17.3
199266	-41.88132	171.7049	2402511	5924443	1991	1	30	4	42	54.28329	2.59	7.6437
199267	-41.90868	171.7133	2403250	5921415	1991	1	30	4	58	45.62344	2.493	9.0263
198563	-41.89732	171.7341	2404953	5922703	1991	1	30	5	8	34.47715	1.912	8
200101	-41.90001	171.73	2404622	5922399	1991	1	30	5	17	54.20174	1.294	17.3
199757	-41.91466	171.7015	2402281	5920736	1991	1	30	5	37	31.76854	1.797	11.6515
199473	-41.89	171.61	2394646	5923354	1991	1	30	5	42	17.83661	1.423	8.2
200633	-41.89	171.61	2394646	5923354	1991	1	30	6	0	2.32631	1.351	8.2
199678	-41.95358	171.7966	2410235	5916530	1991	1	30	6	9	20.10383	2.133	20.54

199269	-41.93542	171.7677	2407803	5918512	1991	1	30	6	52	50.48756	2.37	11.3693
200399	-41.89	171.61	2394646	5923354	1991	1	30	7	5	34.83523	1.432	8.2
199679	-41.93686	171.7642	2407518	5918348	1991	1	30	7	19	54.44063	2.028	14.1305
199481	-41.89	171.61	2394646	5923354	1991	1	30	7	32	19.73477	1.548	8.2
204537	-41.89	171.61	2394646	5923354	1991	1	30	7	33	56.25478	1.412	8.2
199486	-41.88572	171.5887	2392870	5923800	1991	1	30	7	56	42.98918	1.846	8
197966	-41.90001	171.73	2404622	5922399	1991	1	30	8	32	50.35668	1.278	17.3
198602	-41.89	171.61	2394646	5923354	1991	1	30	9	1	45.03329	1.781	8.2
199501	-41.89622	171.6925	2401504	5922772	1991	1	30	9	6	40.90113	1.496	12
199502	-41.89	171.61	2394646	5923354	1991	1	30	9	10	49.14208	1.035	8.2
200184	-41.89	171.61	2394646	5923354	1991	1	30	9	28	29.30284	0.97	8.2
198214	-41.87578	171.9438	2422329	5925334	1991	1	30	10	0	45.92685	1.829	9.1515
199514	-41.90001	171.7	2402132	5922361	1991	1	30	10	7	50.33466	1.392	17
200634	-41.89	171.61	2394646	5923354	1991	1	30	10	15	10.84206	1.337	8.2
197969	-41.91685	171.7179	2403649	5920513	1991	1	30	10	29	40.24347	1.6	9.0192
200601	-41.90155	171.7172	2403559	5922212	1991	1	30	10	37	24.85408	1.811	10.4211
199521	-41.91489	171.7006	2402208	5920709	1991	1	30	10	58	50.7908	1.582	11.893
199522	-41.91749	171.7	2402162	5920420	1991	1	30	11	6	58.19789	2.073	8.3059
199270	-41.90001	171.73	2404622	5922399	1991	1	30	11	40	34.28479	1.384	17.3
197975	-41.75949	171.5113	2386203	5937711	1991	1	30	12	21	20.08559	1.093	8
200571	-41.94089	171.7833	2409111	5917923	1991	1	30	13	2	40.83121	1.78	13.91
200605	-41.89	171.61	2394646	5923354	1991	1	30	13	24	11.52891	1.449	8.2
204639	-41.90001	171.73	2404622	5922399	1991	1	30	13	26	7.68671	1.296	17.3
199342	-41.89	171.61	2394646	5923354	1991	1	30	13	30	29.87881	1.175	8.2
199968	-41.89	171.61	2394646	5923354	1991	1	30	14	14	50.95808	1.283	8.2
200609	-41.89951	171.7032	2402397	5922421	1991	1	30	14	44	53.59515	1.271	8
204651	-41.92097	171.6849	2400914	5920014	1991	1	30	14	46	58.70236	2.563	7.6696
204652	-41.89594	171.6968	2401858	5922809	1991	1	30	14	48	15.84531	1.956	10.3351
204653	-41.9473	171.7259	2404362	5917141	1991	1	30	14	49	27.82202	1.961	20.2806
200610	-41.95406	171.7071	2402813	5916367	1991	1	30	15	16	23.64993	1.188	8
199272	-41.93182	171.794	2409986	5918943	1991	1	30	16	3	7.03478	2.56	13.0446
199273	-41.89922	171.8203	2412116	5922595	1991	1	30	16	46	31.4957	2.291	11.8874
199970	-41.88615	171.7034	2402388	5923905	1991	1	30	16	58	55.79968	1.729	7.5617
204664	-41.93131	171.7742	2408342	5918976	1991	1	30	17	0	56.44136	1.578	9.7229
200547	-41.88238	171.7639	2407405	5924399	1991	1	30	17	14	46.04737	1.99	15.5033
204665	-41.90704	171.6986	2402025	5921578	1991	1	30	17	16	32.14792	1.86	9.5334

198454	-41.90159	171.702	2402299	5922188	1991	1	30	17	26	28.56478	1.995	8.7865
199972	-41.81866	172.1187	2436786	5931845	1991	1	30	17	35	52.59054	1.538	10
200613	-41.91459	171.7003	2402182	5920742	1991	1	30	17	42	34.30309	1.395	9.4714
199974	-41.9054	171.7914	2409726	5921875	1991	1	30	18	2	38.51128	1.85	13.0003
200400	-41.83518	172.084	2433922	5929979	1991	1	30	18	29	15.82201	1.808	10
200575	-41.90111	171.7366	2405173	5922285	1991	1	30	18	31	48.57819	1.328	9.4584
200538	-41.90825	171.6961	2401824	5921441	1991	1	30	18	45	38.32656	1.915	11.5627
199897	-41.90348	171.6611	2398912	5921925	1991	1	30	19	32	37.37067	1.916	14.3244
199316	-41.90584	171.7091	2402893	5921725	1991	1	30	19	40	29.39575	1.54	10.2482
197983	-41.9031	171.6997	2402114	5922017	1991	1	30	19	50	4.96026	3.22	7.7196
200190	-41.89387	171.6669	2399375	5923000	1991	1	30	20	19	2.27375	1.24	11.4515
198606	-41.91589	171.8084	2411148	5920730	1991	1	30	20	35	6.67542	1.768	14.0152
200192	-41.90001	171.73	2404622	5922399	1991	1	30	21	9	24.57204	1.585	17.3
204666	-41.88167	171.6908	2401335	5924386	1991	1	30	22	9	2.27841	2.009	9.4952
199289	-41.90001	171.73	2404622	5922399	1991	1	30	22	58	40.67228	1.716	17.3
199687	-41.89	171.61	2394646	5923354	1991	1	30	23	7	21.44179	1.288	8.2
199535	-41.89	171.61	2394646	5923354	1991	1	30	23	11	4.9662	1.629	8.2
199274	-41.91068	171.6941	2401663	5921168	1991	1	30	23	13	4.17899	2.529	8.9217
199539	-41.90001	171.73	2404622	5922399	1991	1	30	23	41	36.02348	1.426	17.3
200403	-41.90001	171.73	2404622	5922399	1991	1	30	23	44	8.06139	1.98	17.3
199546	-41.89814	171.7575	2406902	5922640	1991	1	31	0	44	10.06338	1.67	8
199554	-41.89	171.61	2394646	5923354	1991	1	31	2	35	47.73731	1.556	8.2
198216	-41.89	171.61	2394646	5923354	1991	1	31	3	51	30.08731	2.011	8.2
200543	-41.90422	171.7113	2403075	5921908	1991	1	31	4	6	36.44901	1.858	6.9031
198014	-41.89	171.61	2394646	5923354	1991	1	31	4	8	45.65341	1.538	8.2
198015	-41.89	171.61	2394646	5923354	1991	1	31	4	14	30.49287	1.486	8.2
200635	-41.89	171.61	2394646	5923354	1991	1	31	4	47	45.19038	1.464	8.2
198034	-41.82189	171.5759	2391689	5930872	1991	1	31	6	45	2.92538	2.061	16.469
199573	-41.85101	171.6286	2396122	5927710	1991	1	31	6	51	7.5588	1.589	7.7958
198038	-41.92616	171.7729	2408226	5919547	1991	1	31	7	27	12.63483	1.759	14.2093
199343	-41.90252	171.6972	2401904	5922079	1991	1	31	7	44	32.02245	1.212	8.9661
199981	-41.90777	171.7165	2403511	5921520	1991	1	31	7	52	43.36177	1.793	10.5075
198039	-41.89216	171.7027	2402344	5923236	1991	1	31	8	19	44.415	2.248	10.087
199293	-41.91188	171.7925	2409827	5921156	1991	1	31	9	2	9.64839	1.383	12.39
199276	-41.90026	171.7784	2408634	5922430	1991	1	31	9	42	12.44485	3.196	6.6088
198046	-41.9014	171.697	2401882	5922203	1991	1	31	9	46	10.56325	3.397	9.3382

200509	-41.8623	171.6719	2399737	5926513	1991	1	31	10	1	1.88752	1.045	12.5778
200636	-41.91666	171.8082	2411133	5920644	1991	1	31	10	5	0.32593	2.368	19.8674
199588	-41.89731	171.6684	2399508	5922620	1991	1	31	10	29	41.63955	1.46	9.6062
199591	-41.91531	171.8245	2412489	5920813	1991	1	31	10	55	35.69529	1.63	13.716
199899	-41.94036	171.7309	2404762	5917918	1991	1	31	11	21	46.25446	1.491	8
198218	-41.91057	171.7407	2405526	5921239	1991	1	31	11	37	42.40539	1.434	8
199277	-41.93864	171.8076	2411124	5918202	1991	1	31	12	9	21.36415	2.619	14.0009
200000	-41.88997	171.7001	2402120	5923476	1991	1	31	12	42	34.04822	1.507	9.4093
204713	-41.91341	171.7714	2403317	5920890	1991	1	31	12	53	36.55594	2.447	10.536
199593	-41.91634	171.7786	2408684	5920645	1991	1	31	13	9	58.28384	1.301	8
199696	-41.89	171.61	2394646	5923354	1991	1	31	13	13	49.92343	1.185	8.2
200009	-41.93361	171.7244	2404212	5918660	1991	1	31	13	34	50.43648	1.502	7.2457
199279	-41.8813	171.7353	2405032	5924484	1991	1	31	14	43	0.52905	2.699	10.0844
200637	-41.93637	171.6978	2402010	5918320	1991	1	31	14	54	42.01253	1.529	9.6068
199375	-41.88836	171.7097	2402917	5923667	1991	1	31	15	14	46.29733	2.295	10.581
200638	-41.91348	171.7038	2402471	5920870	1991	1	31	15	30	24.01117	1.613	9.751
200639	-41.93768	171.7078	2402844	5918187	1991	1	31	15	56	43.48367	1.54	7.3393
199376	-41.89022	171.7139	2403273	5923466	1991	1	31	15	59	34.79288	2.482	10.1237
198054	-41.91646	171.7868	2409359	5920641	1991	1	31	17	1	51.3328	1.326	13.3494
200707	-41.92513	171.7096	2402974	5919583	1991	1	31	17	8	18.07662	1.633	12
199762	-41.80416	171.5343	2388200	5932783	1991	1	31	17	15	39.67849	1.128	8
200641	-41.90875	171.7044	2402508	5921396	1991	1	31	17	23	47.23648	1.435	10.6483
200016	-41.89	171.61	2394646	5923354	1991	1	31	17	33	35.20731	1.384	8.2
198055	-41.9156	171.777	2408548	5920725	1991	1	31	18	1	27.39948	3.489	12.803
199379	-41.92598	171.7073	2402786	5919486	1991	1	31	18	55	25.38924	1.162	11.4396
200416	-41.90001	171.73	2404622	5922399	1991	1	31	19	17	32.63908	1.767	17.3
200642	-41.89	171.61	2394646	5923354	1991	1	31	19	23	25.64957	1.224	8.2
204718	-41.9608	171.8755	2416787	5915818	1991	1	31	19	24	33.82939	2.002	15.027
204720	-41.89	171.61	2394646	5923354	1991	1	31	19	53	57.53731	1.377	8.2
199903	-41.93089	171.7245	2404216	5918962	1991	1	31	19	54	26.35927	1.689	8
200321	-41.91102	171.7184	2403680	5921161	1991	1	31	19	59	24.94192	1.781	6.4832
200021	-41.89	171.61	2394646	5923354	1991	1	31	20	36	40.33731	1.32	8.2
199322	-41.902	171.8159	2411756	5922281	1991	1	31	20	50	27.65915	1.966	12.7322
199295	-41.89845	171.7197	2403763	5922559	1991	1	31	21	45	47.78593	1.514	9.424
198068	-41.789	171.6008	2393698	5934560	1991	1	31	22	2	59.17628	1.508	8
198074	-41.91957	171.7916	2409768	5920301	1991	1	31	22	56	12.56805	2.076	13.4911

200114	-41.89	171.61	2394646	5923354	1991	1	31	23	5	11.11731	1.765	8.2
199323	-41.90001	171.7	2402132	5922361	1991	1	31	23	14	9.95967	1.396	17
204712	-41.89363	171.8153	2411692	5923210	1991	2	1	0	15	23.54404	1.145	8
198078	-41.92432	171.7021	2402345	5919664	1991	2	1	0	34	35.47057	1.408	9.5272
198079	-41.92692	171.7531	2406585	5919438	1991	2	1	1	27	13.20281	3.449	10.2238
199608	-41.90001	171.73	2404622	5922399	1991	2	1	1	34	12.69421	1.511	17.3
199296	-41.89719	171.7001	2402136	5922674	1991	2	1	1	53	46.43532	1.617	8.9949
200874	-41.91011	171.7962	2410133	5921357	1991	2	1	1	56	12.33	1.372	11.8664
198082	-41.89402	171.7109	2403028	5923040	1991	2	1	2	30	38.5253	2.661	9.1506
198085	-41.90752	171.7053	2402587	5921534	1991	2	1	3	10	7.26281	1.313	8.599
200748	-41.91529	171.7892	2409559	5920774	1991	2	1	3	12	29.01657	2.053	13.2431
199699	-41.90417	171.7745	2408318	5921991	1991	2	1	3	33	54.17944	1.96	10.3664
199615	-41.88707	171.7067	2402664	5923807	1991	2	1	3	36	49.37181	1.711	7.0451
200752	-41.89708	171.708	2402790	5922697	1991	2	1	3	52	2.56688	1.754	9.751
199827	-41.91845	171.7202	2403838	5920338	1991	2	1	3	57	55.76762	2.286	11.2593
199381	-41.8819	171.636	2396791	5924289	1991	2	1	4	5	17.13858	1.312	11.2523
204717	-41.91819	171.7144	2403356	5920360	1991	2	1	4	5	50.6733	2.409	9.65
198088	-41.90001	171.73	2404622	5922399	1991	2	1	4	18	24.03265	1.547	17.3
198479	-41.92247	171.7015	2402296	5919868	1991	2	1	4	38	34.68581	1.434	12.2199
199325	-41.93421	171.7187	2403741	5918586	1991	2	1	5	25	9.22658	1.283	8.1406
204719	-41.89448	171.7318	2404765	5923015	1991	2	1	5	26	43.37611	1.456	10.0269
199299	-41.90767	171.7053	2402581	5921517	1991	2	1	6	10	36.87273	1.423	11.756
198092	-41.90982	171.694	2401650	5921264	1991	2	1	6	33	59.3903	3.445	9.8739
200757	-41.92018	171.7856	2409264	5920226	1991	2	1	7	4	22.39961	2.191	13.5801
199867	-41.90001	171.73	2404622	5922399	1991	2	1	7	26	15.09962	1.61	17.3
200643	-41.91454	171.6949	2401736	5920741	1991	2	1	9	20	19.01968	1.869	10.3625
200644	-41.91634	171.7004	2402197	5920548	1991	2	1	10	0	43.16802	1.649	11.7575
200645	-41.95381	171.7987	2410409	5916507	1991	2	1	10	45	1.40709	1.729	19.1982
199639	-41.91492	171.715	2403401	5920724	1991	2	1	12	7	54.61318	1.673	10.8021
199281	-41.88938	171.7517	2406403	5923606	1991	2	1	14	53	45.61489	1.612	8.8252
204723	-41.8941	171.7266	2404331	5923051	1991	2	1	14	53	52.87524	2.646	10.3554
200646	-41.89938	171.699	2402049	5922430	1991	2	1	15	34	8.59295	1.395	8.9296
200218	-41.93246	171.6782	2400376	5918729	1991	2	1	15	53	48.15303	1.449	9.8077
199703	-41.94095	171.779	2408750	5917911	1991	2	1	17	9	28.66353	1.273	12.1064
200758	-41.89936	171.7833	2409046	5922536	1991	2	1	18	7	12.45395	1.638	8.0609
199706	-41.91282	171.6991	2402080	5920937	1991	2	1	18	27	7.5244	1.962	9.3605

200219	-41.92103	171.8468	2414345	5920203	1991	2	1	18	36	29.04883	1.513	12
200648	-41.90815	171.8349	2413339	5921620	1991	2	1	19	39	17.7188	1.599	12.6126
200649	-41.90001	171.7	2402132	5922361	1991	2	1	21	1	19.58706	1.35	17
200650	-41.91045	171.8014	2410559	5921326	1991	2	1	21	11	31.3377	1.594	12.9757
200651	-41.90001	171.73	2404622	5922399	1991	2	1	21	22	40.46712	1.543	17.3
199654	-41.90001	171.73	2404622	5922399	1991	2	1	21	25	49.70683	1.339	17.3
200652	-41.90001	171.73	2404622	5922399	1991	2	1	22	30	23.89507	1.418	17.3
200653	-41.91495	171.7988	2410350	5920823	1991	2	1	22	41	27.35101	1.746	17.0881
200038	-41.90001	171.73	2404622	5922399	1991	2	1	22	51	58.43149	1.491	17.3
200654	-41.91238	171.6904	2401355	5920975	1991	2	1	23	51	49.21835	2.071	11.3497
200123	-41.91402	171.845	2414185	5920980	1991	2	2	0	31	37.05162	1.847	12.9294
200655	-41.90445	171.7802	2408793	5921967	1991	2	2	0	38	41.171	2.046	11.6498
204725	-41.88818	171.7232	2404039	5923704	1991	2	2	0	40	6.94257	1.75	9.4232
200656	-41.93441	171.7776	2408625	5918636	1991	2	2	1	43	41.13921	2.01	15.0929
200435	-41.91528	171.7802	2408812	5920764	1991	2	2	2	8	21.19007	1.46	8.3705
199767	-41.89558	171.7913	2409698	5922965	1991	2	2	3	18	4.2358	0.979	6.1812
200915	-41.94129	171.7669	2407747	5917859	1991	2	2	3	41	4.60786	1.478	13.0825
200958	-41.89346	171.7125	2403159	5923104	1991	2	2	4	30	6.34546	1.382	10.1868
204727	-41.8305	171.9148	2419861	5930333	1991	2	2	4	31	52.91205	3.194	7.3365
204765	-41.90912	171.8393	2413709	5921517	1991	2	2	4	38	34.34092	1.399	12.9927
200657	-41.89354	171.6626	2399016	5923031	1991	2	2	4	44	14.4308	1.07	10.2069
200658	-41.87131	171.7657	2407535	5925630	1991	2	2	5	4	6.02001	1.614	9.4159
200917	-41.89799	171.79	2409598	5922696	1991	2	2	5	5	33.55445	0.978	6.6562
204766	-41.90001	171.73	2404622	5922399	1991	2	2	5	5	44.26264	1.238	17.3
200230	-41.90169	171.7928	2409838	5922289	1991	2	2	5	19	51.87383	1.768	13.183
200439	-41.89059	171.7164	2403476	5923428	1991	2	2	5	42	23.8103	1.585	8.9378
199710	-41.90001	171.73	2404622	5922399	1991	2	2	5	59	8.54187	1.058	17.3
199390	-41.92967	171.822	2412299	5919215	1991	2	2	6	22	18.83117	2.141	14.6288
200660	-41.904	171.8013	2410541	5922042	1991	2	2	7	22	32.36052	1.472	10.9804
200661	-41.78778	171.8334	2413028	5934988	1991	2	2	7	25	18.084	1.705	8.1468
200233	-41.90001	171.73	2404622	5922399	1991	2	2	7	47	55.8583	1.137	17.3
200234	-41.94059	171.9112	2419715	5918101	1991	2	2	8	11	51.17707	1.057	9.9059
200043	-41.89	171.61	2394646	5923354	1991	2	2	8	23	13.71272	1.319	8.2
200044	-41.93735	171.8949	2418362	5918444	1991	2	2	8	36	19.02952	1.116	8.3029
200241	-41.91507	171.6983	2402020	5920686	1991	2	2	10	32	22.72425	1.873	9.4615
200662	-41.88986	171.7479	2406092	5923548	1991	2	2	10	50	17.27538	1.552	10.0861

200663	-41.93422	171.8196	2412107	5918707	1991	2	2	12	30	53.39223	1.443	15.1504
198497	-41.90001	171.73	2404622	5922399	1991	2	2	12	36	5.23936	1.249	17.3
200922	-41.90416	171.7927	2409833	5922014	1991	2	2	13	6	11.67992	1.981	11.4174
199348	-41.91006	171.7053	2402586	5921251	1991	2	2	13	29	26.32044	1.409	9.5347
200664	-41.91837	171.6927	2401560	5920312	1991	2	2	13	35	50.20835	1.689	12.2609
199718	-41.90677	171.7061	2402650	5921618	1991	2	2	14	33	26.66409	1.645	9.0304
200962	-41.90493	171.8503	2414614	5921995	1991	2	2	15	22	47.79882	1.069	10.5638
199304	-41.90001	171.73	2404622	5922399	1991	2	2	15	33	17.24985	1.508	17.3
200051	-41.91758	171.7768	2408533	5920505	1991	2	2	15	37	17.15059	0.988	8.3984
204767	-41.94039	171.8059	2410985	5918006	1991	2	2	15	41	29.17164	1.947	15.0343
200665	-41.90924	171.8089	2411181	5921469	1991	2	2	17	27	54.40463	1.176	5.0188
204768	-41.90001	171.73	2404622	5922399	1991	2	2	17	30	0.18872	0.937	17.3
200965	-41.93045	171.6885	2401231	5918965	1991	2	2	17	58	52.33144	1.118	10.7294
200446	-41.91325	171.7969	2410195	5921009	1991	2	2	19	13	18.89902	1.817	12.4168
199283	-41.77643	171.8232	2412165	5936237	1991	2	2	19	24	37.86221	2.376	9.2714
204769	-41.84799	171.6682	2399399	5928098	1991	2	2	19	46	22.32836	1.33	20.103
200058	-41.90001	171.73	2404622	5922399	1991	2	2	19	58	8.06165	1.452	17.3
204770	-41.90001	171.73	2404622	5922399	1991	2	2	19	59	26.68805	0.853	17.3
199915	-41.90001	171.73	2404622	5922399	1991	2	2	20	8	43.37052	1.069	17.3
200246	-41.90001	171.73	2404622	5922399	1991	2	2	20	55	39.02793	1.397	17.3
199394	-41.93116	171.792	2409814	5919014	1991	2	2	21	25	42.55012	1.498	13.1374
204771	-41.91303	171.7923	2409808	5921028	1991	2	2	21	26	53.71556	2.302	11.4693
200248	-41.90001	171.73	2404622	5922399	1991	2	2	21	29	30.18774	1.097	17.3
204775	-41.89	171.61	2394646	5923354	1991	2	2	21	42	46.99665	1.004	8.2
200666	-41.90001	171.73	2404622	5922399	1991	2	2	22	15	57.31733	1.091	17.3
198502	-41.89	171.61	2394646	5923354	1991	2	2	22	21	51.23731	1.146	8.2
198233	-41.89	171.61	2394646	5923354	1991	2	2	22	37	52.12823	1.462	8.2
199395	-41.89516	171.7026	2402342	5922903	1991	2	2	22	53	22.61307	2.344	10.1624
199284	-41.89558	171.7237	2404090	5922883	1991	2	2	23	11	3.79048	2.708	8.4834
200667	-41.91925	171.7871	2409387	5920331	1991	2	2	23	16	35.96679	1.471	12.4464
200668	-41.89	171.61	2394646	5923354	1991	2	2	0	38	46.02486	1.154	8.2
199725	-41.91558	171.851	2414689	5920813	1991	2	2	2	3	39.15862	2.06	11.7114
200970	-41.89657	171.7412	2405543	5922795	1991	2	2	2	28	8.15695	1.698	9.3013
200669	-41.91567	171.7771	2408551	5920717	1991	2	2	2	49	18.42995	0.837	8.7471
200454	-41.89	171.61	2394646	5923354	1991	2	2	3	19	12.44276	1.236	8.2
200670	-41.89035	171.6976	2401916	5923431	1991	2	2	3	45	31.55537	1.477	7.2007

200063	-41.91858	171.7132	2403262	5920315	1991	2	3	4	11	31.50554	1.042	11.8657
200064	-41.90996	171.7094	2402929	5921268	1991	2	3	4	16	58.34788	1.322	10.1448
204778	-41.90001	171.7173	2404622	5922399	1991	2	3	4	39	17.58989	0.802	17.3
200671	-41.9204	171.7192	2403763	5920121	1991	2	3	4	51	40.03557	1.232	11.5528
200672	-41.89299	171.7009	2402193	5923142	1991	2	3	4	57	57.39356	1.659	7.9648
200456	-41.89	171.61	2394646	5923354	1991	2	3	5	8	42.6701	0.803	8.2
199921	-41.90001	171.73	2404622	5922399	1991	2	3	6	7	30.1731	1.082	17.3
199398	-41.98453	171.7937	2410043	5913089	1991	2	3	6	17	9.27778	1.654	10.0039
199729	-41.92369	171.8526	2414827	5919914	1991	2	3	8	12	8.26252	1.726	11.9788
199730	-41.89849	171.7324	2404817	5922571	1991	2	3	8	25	40.30544	1.376	9.607
200148	-41.90001	171.73	2404622	5922399	1991	2	3	8	37	18.58503	0.856	17.3
200673	-41.90001	171.73	2404622	5922399	1991	2	3	8	44	23.55751	0.896	17.3
199400	-41.91653	171.6884	2401196	5920511	1991	2	3	9	27	16.1011	2.355	8.3499
204781	-41.89482	171.7053	2402559	5922944	1991	2	3	10	16	52.59842	1.48	10.1097
200674	-41.89443	171.7369	2405187	5923027	1991	2	3	11	26	30.67319	1.702	10.7102
199285	-41.91436	171.7856	2409261	5920873	1991	2	3	11	29	59.81466	2.305	13.1486
199401	-41.91305	171.7045	2402530	5920918	1991	2	3	11	36	6.04876	2.3	12.1639
200977	-41.91174	171.7102	2402995	5921071	1991	2	3	11	58	7.45555	1.608	9.6666
199879	-41.91489	171.691	2401410	5920697	1991	2	3	12	20	45.00738	1.615	9.1708
199354	-41.90001	171.73	2404622	5922399	1991	2	3	12	49	57.29242	1.029	17.3
199734	-41.91338	171.7097	2402962	5920888	1991	2	3	13	2	36.98542	1.237	11.7035
200149	-41.89	171.61	2394646	5923354	1991	2	3	13	14	7.27221	1.027	8.2
200070	-41.89	171.61	2394646	5923354	1991	2	3	13	24	8.09731	0.961	8.2
199735	-41.89	171.61	2394646	5923354	1991	2	3	15	9	39.03731	0.912	8.2
204784	-41.89	171.61	2394646	5923354	1991	2	3	15	32	24.32731	1.266	8.2
204783	-41.95458	171.7937	2409996	5916415	1991	2	3	15	52	46.52107	1.73	19.4344
200675	-41.90001	171.73	2404622	5922399	1991	2	3	16	38	14.99814	1.016	17.3
200151	-41.91305	171.7056	2402618	5920920	1991	2	3	16	48	54.70808	0.999	11.6401
204785	-41.90001	171.73	2404622	5922399	1991	2	3	16	49	41.12555	0.887	17.3
200983	-41.90401	171.689	2401223	5921903	1991	2	3	17	3	52.62785	1.637	9.2273
199403	-41.91695	171.698	2401991	5920477	1991	2	3	17	28	18.52811	2.059	11.5801
200262	-41.90001	171.73	2404622	5922399	1991	2	3	19	17	5.82704	1.45	17.3
198405	-41.90159	171.7693	2407885	5922272	1991	2	3	19	55	44.34764	2.373	9.302
204780	-41.9187	171.7829	2409042	5920387	1991	2	3	19	57	6.04853	1.496	8
200156	-41.90586	171.8037	2410743	5921838	1991	2	3	20	8	19.42694	1.656	10.9906
199837	-41.93343	171.7769	2408565	5918744	1991	2	3	21	9	24.47097	1.625	11.8939

198520	-41.89	171.61	2394646	5923354	1991	2	3	21	16	24.84228	1.107	8.2
200677	-41.90415	171.7786	2408658	5921998	1991	2	3	21	49	57.48593	1.643	12.8576
200988	-41.88919	171.7223	2403961	5923591	1991	2	3	22	20	6.91605	1.617	10.1433
199841	-41.89	171.61	2394646	5923354	1991	2	3	23	34	35.84071	1.252	8.2
198407	-41.89	171.61	2394646	5923354	1991	2	3	23	38	49.55731	0.991	8.2
200990	-41.91638	171.7842	2409141	5920647	1991	2	4	1	37	32.60348	1.179	14.5616
199408	-41.89298	171.7204	2403809	5923168	1991	2	4	2	57	3.39585	1.569	9.2961
199846	-42.06271	171.4216	2379365	5903897	1991	2	4	3	32	0.64248	1.706	11.9376
199409	-41.90331	171.6866	2401022	5921977	1991	2	4	5	57	51.63761	2.348	7.7175
201225	-41.90001	171.73	2404622	5922399	1991	2	4	6	27	59.22961	1.134	17.3
198531	-41.90415	171.6844	2400848	5921881	1991	2	4	6	35	16.25871	2.375	9.2544
198533	-41.88316	171.7389	2405333	5924281	1991	2	4	6	58	23.9035	2.348	10.9646
200492	-41.91664	171.6935	2401625	5920506	1991	2	4	7	4	48.58086	1.383	9.0752
200167	-41.91052	171.7079	2402803	5921204	1991	2	4	7	27	59.49824	0.94	10.2794
199411	-41.9102	171.7914	2409736	5921342	1991	2	4	7	37	11.64748	2.33	12.8399
200080	-41.90298	171.6909	2401382	5922020	1991	2	4	7	41	2.30554	2.537	10.0917
199412	-41.8897	171.7363	2405128	5923552	1991	2	4	9	7	44.89648	2.308	10.1351
200286	-41.89	171.61	2394646	5923354	1991	2	4	10	46	24.47322	1.321	8.2
199413	-41.94145	171.7806	2408888	5917858	1991	2	4	12	58	17.05179	2.071	14.2453
200996	-41.89426	171.7092	2402889	5923011	1991	2	4	13	16	16.1144	1.974	10.2879
200997	-41.90001	171.7	2402132	5922361	1991	2	4	13	22	42.06909	1.249	17
200999	-41.90097	171.7061	2402642	5922262	1991	2	4	14	34	15.52988	1.202	8.9427
202760	-41.89	171.61	2394646	5923354	1991	2	4	15	57	50.81731	1.332	8.2
200095	-41.92814	171.685	2400937	5919217	1991	2	4	16	14	8.94164	0.987	15.7658
200291	-41.8414	171.637	2396799	5928789	1991	2	4	18	18	55.48388	0.911	8
201001	-41.8893	171.6946	2401667	5923544	1991	2	4	18	54	12.64856	1.593	9.1043
201130	-41.84797	171.637	2396815	5928059	1991	2	4	19	12	38.84594	1.409	8
200497	-41.89	171.61	2394646	5923354	1991	2	4	19	40	23.66731	1.423	8.2
200630	-41.90871	171.8061	2410950	5921524	1991	2	4	20	41	15.29168	1.974	20.7583
201138	-41.89	171.61	2394646	5923354	1991	2	4	21	8	9.90731	1.355	8.2
201228	-41.90001	171.73	2404622	5922399	1991	2	4	21	13	28.00723	2.3	17.3
201003	-41.90758	171.8249	2412512	5921672	1991	2	4	21	54	51.28831	1.885	13.7463
201140	-41.90564	171.7893	2409547	5921846	1991	2	4	22	0	58.53827	1.812	8
199756	-41.92556	171.8065	2411007	5919653	1991	2	5	3	23	27.53365	2.447	16.2619
202788	-41.90001	171.73	2404622	5922399	1991	2	5	3	54	0.54503	1.25	17.3
202792	-41.90001	171.73	2404622	5922399	1991	2	5	4	33	23.27185	1.035	17.3

198794	-41.89	171.61	2394646	5923354	1991	2	5	5	0	3.36309	1.781	8.2
202016	-41.90001	171.73	2404622	5922399	1991	2	5	6	8	40.03952	1.968	17.3
198796	-41.90001	171.73	2404622	5922399	1991	2	5	7	2	18.98066	1.421	17.3
202797	-41.90001	171.73	2404622	5922399	1991	2	5	7	44	29.99204	0.863	17.3
198797	-41.90001	171.73	2404622	5922399	1991	2	5	8	48	31.68623	1.318	17.3
198801	-41.90001	171.73	2404622	5922399	1991	2	5	9	56	14.05204	0.697	17.3
202801	-41.90001	171.73	2404622	5922399	1991	2	5	10	5	29.79191	1.513	17.3
198803	-41.90001	171.73	2404622	5922399	1991	2	5	10	46	36.77071	1.056	17.3
204670	-41.90001	171.73	2404622	5922399	1991	2	5	12	12	45.34485	0.899	17.3
202804	-41.90001	171.73	2404622	5922399	1991	2	5	12	15	31.3411	1.315	17.3
204671	-41.90001	171.73	2404622	5922399	1991	2	5	12	17	15.62259	1.736	17.3
202805	-41.90001	171.73	2404622	5922399	1991	2	5	12	34	30.4498	0.816	17.3
202806	-41.90001	171.73	2404622	5922399	1991	2	5	13	30	20.80204	1.402	17.3
202808	-41.90001	171.73	2404622	5922399	1991	2	5	14	3	13.43961	1.908	17.3
202809	-41.90001	171.73	2404622	5922399	1991	2	5	14	16	26.52204	0.74	17.3
202811	-41.90001	171.73	2404622	5922399	1991	2	5	15	42	43.25872	1.295	17.3
204672	-41.90001	171.73	2404622	5922399	1991	2	5	16	9	31.04282	1.471	17.3
202813	-41.90001	171.73	2404622	5922399	1991	2	5	16	15	10.94204	0.915	17.3
202814	-41.90001	171.73	2404622	5922399	1991	2	5	16	45	30.15438	1.766	17.3
199942	-41.90001	171.73	2404622	5922399	1991	2	5	19	16	47.86369	1.71	17.3
202816	-41.90001	171.73	2404622	5922399	1991	2	5	19	51	40.31447	0.896	17.3
202817	-41.90001	171.73	2404622	5922399	1991	2	5	21	54	34.22205	1.405	17.3
204673	-41.90001	171.73	2404622	5922399	1991	2	5	22	19	58.08979	1.332	17.3
204674	-41.90001	171.73	2404622	5922399	1991	2	5	22	21	6.20063	1.082	17.3
202494	-41.90001	171.73	2404622	5922399	1991	2	5	22	40	2.17573	1.933	17.3
202195	-41.90001	171.73	2404622	5922399	1991	2	6	6	5	12.62083	2.086	17.3
202822	-41.90001	171.73	2404622	5922399	1991	2	6	6	48	27.94658	1.392	17.3
202823	-41.90001	171.73	2404622	5922399	1991	2	6	6	32	21.70606	1.741	17.3
198273	-41.86061	171.6823	2400593	5926715	1991	2	6	4	53	34.66382	3.29	10.2959
198275	-41.90001	171.73	2404622	5922399	1991	2	6	7	44	38.02067	1.861	17.3
202828	-41.90001	171.73	2404622	5922399	1991	2	6	7	49	58.71475	1.844	17.3
202829	-41.90001	171.73	2404622	5922399	1991	2	6	7	54	49.9191	1.255	17.3
201520	-41.90627	171.6961	2401821	5921661	1991	2	6	8	25	39.48869	2.796	9.7963
202831	-41.90001	171.73	2404622	5922399	1991	2	6	10	32	18.70204	0.963	17.3
202832	-41.90001	171.73	2404622	5922399	1991	2	6	12	0	45.73204	1.649	17.3
202833	-41.90001	171.73	2404622	5922399	1991	2	6	13	12	0.20362	1.128	17.3

201521	-41.90297	171.6683	2399506	5921991	1991	2	6	13	51	38.53735	2.755	11.7775
202306	-41.90001	171.73	2404622	5922399	1991	2	6	16	14	52.65979	1.345	17.3
202835	-41.90001	171.73	2404622	5922399	1991	2	6	16	18	49.07301	1.261	17.3
204689	-41.88051	171.642	2397288	5924451	1991	2	6	16	32	13.11326	2.584	10.5915
198838	-41.90001	171.73	2404622	5922399	1991	2	6	17	14	52.64312	0.101	17.3
202839	-41.90001	171.73	2404622	5922399	1991	2	6	18	45	19.63121	1.953	17.3
202840	-41.90001	171.73	2404622	5922399	1991	2	6	19	22	39.83305	1.493	17.3
198427	-41.90001	171.73	2404622	5922399	1991	2	6	20	51	54.22205	1.562	17.3
202843	-41.90001	171.73	2404622	5922399	1991	2	6	21	9	12.93185	0.917	17.3
202844	-41.90001	171.73	2404622	5922399	1991	2	6	21	31	51.2866	1.083	17.3
202846	-41.89	171.61	2394646	5923354	1991	2	6	22	5	26.95808	1.467	8.2
201948	-41.89482	171.7091	2402878	5922949	1991	2	6	22	38	35.3544	2.471	17.3
204691	-41.90001	171.73	2404622	5922399	1991	2	6	22	40	54.72374	0.924	17.3
202850	-41.90001	171.73	2404622	5922399	1991	2	6	23	13	0.16496	0.806	17.3
202851	-41.90001	171.73	2404622	5922399	1991	2	6	23	46	57.39687	0.953	17.3
198856	-41.90001	171.73	2404622	5922399	1991	2	7	2	28	18.97751	1.943	17.3
198857	-41.90001	171.73	2404622	5922399	1991	2	7	2	32	29.01851	1.171	17.3
202855	-41.90001	171.73	2404622	5922399	1991	2	7	2	38	9.2091	0.775	17.3
202857	-41.90001	171.73	2404622	5922399	1991	2	7	4	37	44.41787	1.232	17.3
204773	-41.90001	171.73	2404622	5922399	1991	2	7	4	39	52.45203	0.968	17.3
202529	-41.90001	171.73	2404622	5922399	1991	2	7	7	9	55.25622	1.438	17.3
202530	-41.90001	171.73	2404622	5922399	1991	2	7	7	54	39.11299	1.464	17.3
202865	-41.90001	171.73	2404622	5922399	1991	2	7	8	32	49.71573	1.123	17.3
202867	-41.90001	171.73	2404622	5922399	1991	2	7	9	31	30.70058	1.747	17.3
198865	-41.88949	171.7176	2403572	5923552	1991	2	7	9	41	11.58913	2.309	9.6554
202206	-41.90001	171.73	2404622	5922399	1991	2	7	10	6	57.97927	1.499	17.3
202870	-41.90001	171.73	2404622	5922399	1991	2	7	10	49	25.08216	0.895	17.3
202082	-41.90001	171.73	2404622	5922399	1991	2	7	11	51	27.4656	0.959	17.3
202872	-41.90001	171.73	2404622	5922399	1991	2	7	12	11	11.12204	1.365	17.3
204788	-41.90001	171.73	2404622	5922399	1991	2	7	14	13	10.41433	1.885	17.3
202208	-41.90406	171.8822	2417260	5922127	1991	2	7	14	19	29.7437	2.15	8.091
198299	-41.73755	172.1187	2436692	5940854	1991	2	7	14	26	23.17079	3.349	23.7729
202877	-41.90001	171.73	2404622	5922399	1991	2	7	14	43	49.93315	1.415	17.3
202878	-41.90001	171.73	2404622	5922399	1991	2	7	16	6	29.09205	0.971	17.3
202879	-41.90001	171.73	2404622	5922399	1991	2	7	16	13	26.35624	1.359	17.3
202881	-41.90001	171.73	2404622	5922399	1991	2	7	16	32	26.24771	0.98	17.3

202882	-41.90001	171.73	2404622	5922399	1991	2	7	17	40	43.56412	1.889	17.3
202886	-41.89	171.61	2394646	5923354	1991	2	7	19	5	7.81219	1.078	8.2
204848	-41.89	171.61	2394646	5923354	1991	2	7	19	5	23.71207	1.132	8.2
204849	-41.89	171.61	2394646	5923354	1991	2	7	19	6	1.85732	0.718	8.2
204896	-41.90001	171.73	2404622	5922399	1991	2	7	20	4	50.3197	0.882	17.3
202888	-41.90001	171.73	2404622	5922399	1991	2	7	20	30	9.06595	1.853	17.3
202891	-41.90001	171.73	2404622	5922399	1991	2	7	21	10	15.60204	1.304	17.3
202137	-41.90001	171.73	2404622	5922399	1991	2	7	21	12	54.42204	0.941	17.3
202895	-41.90001	171.73	2404622	5922399	1991	2	7	21	33	38.09204	0.872	17.3
202896	-41.90001	171.73	2404622	5922399	1991	2	7	21	36	54.61768	1.127	17.3
202897	-41.90001	171.73	2404622	5922399	1991	2	7	22	27	47.8077	1.459	17.3
198876	-41.90001	171.73	2404622	5922399	1991	2	7	23	7	9.63371	1.417	17.3
202900	-41.90001	171.73	2404622	5922399	1991	2	7	23	30	18.00657	1.124	17.3
202214	-41.90001	171.73	2404622	5922399	1991	2	8	0	52	40.68057	2.028	17.3
205027	-41.90001	171.73	2404622	5922399	1991	2	8	2	19	31.55508	1.737	17.3
205034	-41.90001	171.73	2404622	5922399	1991	2	8	4	3	50.46928	1.143	17.3
202912	-41.91292	171.8298	2412923	5921084	1991	2	8	4	53	58.74327	2.469	9.9575
205036	-41.90001	171.73	2404622	5922399	1991	2	8	5	23	55.64986	1.319	17.3
202917	-41.90001	171.73	2404622	5922399	1991	2	8	8	11	30.50879	0.964	17.3
202919	-41.90001	171.73	2404622	5922399	1991	2	8	10	17	34.71204	0.818	17.3
205037	-41.90001	171.73	2404622	5922399	1991	2	8	10	18	41.82153	0.981	17.3
201528	-41.87161	171.6803	2400447	5925490	1991	2	8	10	43	21.78344	2.485	17.3
202921	-41.90001	171.73	2404622	5922399	1991	2	8	11	14	32.30466	1.972	17.3
202922	-41.90001	171.73	2404622	5922399	1991	2	8	11	22	40.20681	1.388	17.3
205038	-41.90001	171.73	2404622	5922399	1991	2	8	12	31	25.46943	1.137	17.3
202923	-41.90001	171.73	2404622	5922399	1991	2	8	13	2	42.93998	1.191	17.3
202924	-41.90001	171.73	2404622	5922399	1991	2	8	13	31	25.52859	1.137	17.3
198900	-41.90001	171.73	2404622	5922399	1991	2	8	18	50	19.65502	1.257	17.3
202094	-41.90001	171.73	2404622	5922399	1991	2	8	20	55	23.96204	1.695	17.3
202955	-41.90001	171.73	2404622	5922399	1991	2	9	2	49	17.10492	1.127	17.3
202986	-41.90001	171.73	2404622	5922399	1991	2	9	5	45	15.97299	2.136	17.3
206342	-41.90001	171.73	2404622	5922399	1991	2	9	6	7	29.60023	1.098	17.3
202991	-41.90001	171.73	2404622	5922399	1991	2	9	6	12	43.7324	1.203	17.3
202999	-41.90001	171.73	2404622	5922399	1991	2	9	9	35	12.80278	1.186	17.3
203000	-41.90001	171.73	2404622	5922399	1991	2	9	10	16	25.47503	1.477	17.3
206344	-41.90001	171.73	2404622	5922399	1991	2	9	10	18	27.36819	0.842	17.3

202143	-41.90001	171.73	2404622	5922399	1991	2	9	12	3	59.66066	1.238	17.3
203001	-41.89	171.61	2394646	5923354	1991	2	9	12	28	23.83912	1.096	8.2
203003	-41.90001	171.73	2404622	5922399	1991	2	9	17	37	57.0151	1.126	17.3
203004	-41.90001	171.73	2404622	5922399	1991	2	9	17	48	12.92476	1.39	17.3
202099	-41.90001	171.73	2404622	5922399	1991	2	9	19	20	24.73695	0.817	17.3
203005	-41.90001	171.73	2404622	5922399	1991	2	9	19	33	29.03814	1.164	17.3
202100	-41.90001	171.73	2404622	5922399	1991	2	9	19	51	25.61873	1.485	17.3
203006	-41.90001	171.73	2404622	5922399	1991	2	9	21	2	35.57503	1.445	17.3
203008	-41.90001	171.73	2404622	5922399	1991	2	9	23	3	36.81055	1.206	17.3
206742	-41.90001	171.73	2404622	5922399	1991	2	9	23	4	36.16737	1.01	17.3
203009	-41.90001	171.73	2404622	5922399	1991	2	9	23	29	25.8817	1.166	17.3
203010	-41.90001	171.73	2404622	5922399	1991	2	10	0	52	48.17542	0.765	17.3
203011	-41.90001	171.73	2404622	5922399	1991	2	10	2	12	33.65184	0.752	17.3
206743	-41.91767	171.73	2407546	5920480	1991	2	10	3	19	24.33575	2.821	15.2983
202105	-41.90001	171.73	2404622	5922399	1991	2	10	4	49	27.8524	1.08	17.3
203012	-41.90001	171.73	2404622	5922399	1991	2	10	5	13	48.38745	1.621	17.3
206745	-41.90001	171.73	2404622	5922399	1991	2	10	6	29	50.71497	0.881	17.3
202239	-41.89	171.61	2394646	5923354	1991	2	10	6	31	45.42566	2.089	8.2
203015	-41.90001	171.73	2404622	5922399	1991	2	10	7	3	19.39879	1.138	17.3
202440	-41.90001	171.73	2404622	5922399	1991	2	10	10	58	28.04961	1.464	17.3
206747	-41.90001	171.73	2404622	5922399	1991	2	10	11	58	28.03127	1.464	17.3
203016	-41.90001	171.73	2404622	5922399	1991	2	10	12	41	46.37799	1.083	17.3
203018	-41.90001	171.73	2404622	5922399	1991	2	10	14	0	19.49371	1.611	17.3
203020	-41.90001	171.73	2404622	5922399	1991	2	10	15	1	47.25824	1.583	17.3
203021	-41.90001	171.73	2404622	5922399	1991	2	10	15	41	17.09305	1.348	17.3
203022	-41.90001	171.73	2404622	5922399	1991	2	10	16	9	49.65457	1.299	17.3
201535	-41.85615	171.6676	2399370	5927191	1991	2	10	18	27	21.7974	3.039	9.7265
203027	-41.90001	171.73	2404622	5922399	1991	2	10	21	59	29.63966	1.82	17.3
206753	-41.90001	171.73	2404622	5922399	1991	2	10	22	0	9.83376	0.914	17.3
206754	-41.89	171.61	2394646	5923354	1991	2	10	23	27	48.85731	1.699	8.2
203030	-41.89	171.61	2394646	5923354	1991	2	11	0	27	48.85732	1.699	8.2
203031	-41.89	171.61	2394646	5923354	1991	2	11	1	8	25.82731	1.033	8.2
202246	-41.90001	171.73	2404622	5922399	1991	2	11	2	40	53.64282	1.506	17.3
201936	-41.90001	171.73	2404622	5922399	1991	2	11	3	40	53.65554	1.506	17.3
201537	-41.87439	171.7186	2403634	5925230	1991	2	11	4	5	43.04538	2.389	10.481
201538	-41.85805	171.8327	2413080	5927182	1991	2	11	5	34	4.97026	2.695	9

202155	-41.90001	171.7	2402132	5922361	1991	2	11	6	34	3.0497	1.891	17.3
203036	-41.90001	171.73	2404622	5922399	1991	2	11	6	50	58.66879	1.449	17.3
203038	-41.90001	171.73	2404622	5922399	1991	2	11	6	50	58.66879	1.449	17.3
202252	-41.90001	171.7	2402132	5922361	1991	2	11	9	34	52.81879	1.213	17.3
203053	-41.90001	171.73	2404622	5922399	1991	2	11	10	36	14.24134	2.321	17
203054	-41.90001	171.73	2404622	5922399	1991	2	11	15	12	2.16872	1.267	17.3
201995	-41.90001	171.73	2404622	5922399	1991	2	11	15	48	0.87127	1.469	17.3
198987	-41.90001	171.73	2404622	5922399	1991	2	11	15	56	3.83986	1.917	17.3
206757	-41.90001	171.73	2404622	5922399	1991	2	11	16	3	43.72204	1.551	17.3
198396	-41.90214	171.9202	2420411	5922382	1991	2	11	16	5	23.70205	1.152	17.3
203055	-41.90001	171.73	2404622	5922399	1991	2	11	16	17	17.17805	2.628	7.0473
206760	-41.90001	171.73	2404622	5922399	1991	2	11	18	33	34.52204	1.633	17.3
205356	-41.90001	171.73	2404622	5922399	1991	2	11	19	54	28.32202	2.06	17.3
203965	-41.90001	171.73	2404622	5922399	1991	2	11	21	35	52.26994	1.628	17.3
201387	-41.89	171.61	2394646	5923354	1991	2	11	22	30	2.74306	1.149	17.3
205358	-41.90001	171.73	2404622	5922399	1991	2	12	23	49	1.03732	1.874	8.2
201996	-41.90001	171.73	2404622	5922399	1991	2	12	0	3	56.79205	1.583	17.3
203509	-41.88093	171.7101	2402938	5922493	1991	2	12	0	48	18.53617	1.581	17.3
205265	-41.90001	171.73	2404622	5922399	1991	2	12	2	26	25.79486	2.415	8.6365
205364	-41.90001	171.73	2404622	5922399	1991	2	12	4	5	22.68178	1.681	17.3
202005	-41.90001	171.73	2404622	5922399	1991	2	12	4	50	46.05837	1.455	17.3
201246	-41.89	171.61	2394646	5923354	1991	2	12	5	4	20.99568	1.378	17.3
203519	-41.70802	171.8394	2413410	5943854	1991	2	12	5	20	56.69847	1.749	8.2
205365	-41.89	171.61	2394646	5923354	1991	2	12	5	37	13.14394	2.223	8
205366	-41.89	171.61	2394646	5923354	1991	2	12	5	51	31.99731	0.817	8.2
204106	-41.88054	171.7528	2406481	5924590	1991	2	12	6	21	4.19731	1.084	8.2
201433	-41.89	171.61	2394646	5923354	1991	2	13	16	11	26.27116	2.069	8
205368	-41.89	171.61	2394646	5923354	1991	2	13	12	40	43.14285	1.952	8.2
205369	-41.89	171.61	2394646	5923354	1991	2	13	16	6	40.49731	1.114	8.2
205370	-41.89	171.61	2394646	5923354	1991	2	13	20	6	12.45731	1.516	8.2
205371	-41.90001	171.73	2404622	5922399	1991	2	14	20	52	42.93731	1.768	8.2
205065	-41.90001	171.73	2404622	5922399	1991	2	14	0	14	6.89248	1.794	17.3
205375	-41.90001	171.73	2404622	5922399	1991	2	14	2	6	7.1809	1.823	17.3
207129	-41.90001	171.73	2404622	5922399	1991	2	14	3	48	44.41872	1.289	17.3
205376	-41.90001	171.73	2404622	5922399	1991	2	14	3	50	38.91446	1.159	17.3
205377	-41.90001	171.73	2404622	5922399	1991	2	14	4	20	35.82585	1.621	17.3
						2	14	4	43	55.4393	2.036	17.3

201322	-41.88235	171.6642	2399127	59242276	1991	2	14	7	8	3.83367	3.205	9.0435
205380	-41.90001	171.73	2404622	59223399	1991	2	14	7	44	24.8797	1.061	17.3
205381	-41.90001	171.73	2404622	59223399	1991	2	14	8	12	48.42016	1.033	17.3
205382	-41.90001	171.73	2404622	59223399	1991	2	14	8	17	6.19772	1.305	17.3
205209	-41.89	171.61	2394646	59233354	1991	2	14	10	12	42.10732	1.223	8.2
201326	-41.70097	172.219	2444992	5944998	1991	2	14	11	26	14.32663	3.022	98.5053
205363	-41.89	171.61	2394646	59233354	1991	2	14	13	36	28.97731	1.342	8.2
205211	-41.89	171.61	2394646	59233354	1991	2	14	17	11	41.07732	2.305	8.2
205385	-41.89	171.61	2394646	59233354	1991	2	14	18	6	54.36731	1.507	8.2
207656	-41.89	171.61	2394646	59233354	1991	2	14	18	28	26.95731	1.955	8.2
205288	-41.87903	171.8205	2412098	5924838	1991	2	14	19	57	39.80372	2.548	5.558
205095	-41.89	171.61	2394646	59233354	1991	2	14	22	19	17.43731	1.514	8.2
201500	-41.90001	171.73	2404622	59223399	1991	2	15	1	2	33.59894	1.608	17.3
207657	-41.90001	171.73	2404622	59223399	1991	2	15	1	50	18.05215	1.398	17.3
205389	-41.90001	171.73	2404622	59223399	1991	2	15	9	39	1.55611	1.778	17.3
201354	-42.03864	171.5897	2393240	5906817	1991	2	15	10	48	10.72841	5.964	6.9229
208433	-41.85467	171.8538	2414826	5927582	1991	2	15	10	50	58.6908	2.681	8
208537	-42.02999	171.58	2392417	5907764	1991	2	15	10	52	28.47659	2.556	6.4
208538	-42.02999	171.58	2392417	5907764	1991	2	15	10	52	46.40756	1.916	6.4
208562	-42.02999	171.58	2392417	5907764	1991	2	15	10	52	57.86746	2.169	6.4
208563	-42.03868	171.5936	2393558	5906818	1991	2	15	10	53	9.32858	2.111	8
208564	-42.03577	171.5655	2391231	5907102	1991	2	15	10	53	26.69049	2.388	8
208595	-42.04533	171.5769	2392186	5906056	1991	2	15	10	54	29.74612	2.809	8
208596	-42.04647	171.6011	2394196	5905963	1991	2	15	10	54	54.45615	2.824	8
208597	-42.03865	171.5532	2390210	5906764	1991	2	15	10	56	18.38248	2.406	8
208598	-42.04578	171.5891	2393202	5906023	1991	2	15	10	57	21.7644	3.134	8
208599	-42.02999	171.58	2392417	5907764	1991	2	15	10	58	45.14014	2.023	6.4
208600	-42.02999	171.58	2392417	5907764	1991	2	15	10	59	49.08936	1.471	6.4
208601	-42.02999	171.58	2392417	5907764	1991	2	15	10	59	56.6059	1.868	6.4
201356	-42.03107	171.5865	2392957	5907653	1991	2	15	11	0	48.81922	4.123	12.8421
208615	-42.04192	171.6117	2395063	5906482	1991	2	15	11	3	14.05301	3.416	6.6506
208616	-41.90001	171.73	2404622	59223399	1991	2	15	11	5	12.40201	1.363	17.3
208617	-42.02999	171.58	2392417	5907764	1991	2	15	11	6	16.81448	2.441	6.4
205293	-42.02999	171.58	2392417	5907764	1991	2	15	11	8	13.43351	1.569	6.4
207661	-41.99757	171.7464	2406141	5911583	1991	2	15	11	9	32.07254	1.584	25.7245
207662	-42.05053	171.6187	2395663	5905536	1991	2	15	11	9	45.28155	2.487	8.6216

207663	-42.03167	171.7241	2404351	5907768	1991	2	15	11	10	15.45868	1.628	8
207668	-42.02999	171.58	2392417	5907764	1991	2	15	11	10	51.608	1.206	6.4
207664	-42.03032	171.6514	2398328	5907824	1991	2	15	11	11	11.78972	2.253	8.8289
207666	-42.02999	171.58	2392417	5907764	1991	2	15	11	11	59.56502	2.336	6.4
207669	-42.02999	171.58	2392417	5907764	1991	2	15	11	12	44.96819	1.428	6.4
201357	-42.01981	171.5997	2394027	5908922	1991	2	15	11	12	54.68419	3.579	13.5161
207667	-42.02999	171.58	2392417	5907764	1991	2	15	11	15	26.13023	2.161	6.4
207670	-42.02999	171.58	2392417	5907764	1991	2	15	11	16	53.42094	1.18	6.4
207671	-42.03278	171.6338	2396880	5907528	1991	2	15	11	16	59.76748	2.476	9.9693
207672	-42.03111	171.607	2394658	5907677	1991	2	15	11	18	7.7032	1.832	8
207674	-42.02999	171.58	2392417	5907764	1991	2	15	11	18	22.27789	1.274	6.4
207673	-42.02999	171.58	2392417	5907764	1991	2	15	11	18	22.80764	2.323	6.4
207693	-42.02999	171.58	2392417	5907764	1991	2	15	11	18	58.45029	1.526	6.4
207709	-42.02999	171.58	2392417	5907764	1991	2	15	11	20	31.54185	1.911	6.4
207779	-42.02999	171.58	2392417	5907764	1991	2	15	11	20	56.02057	1.451	6.4
207780	-42.02999	171.58	2392417	5907764	1991	2	15	11	21	12.79758	1.252	6.4
207781	-42.02999	171.58	2392417	5907764	1991	2	15	11	21	27.91758	1.038	6.4
205296	-42.02003	171.6373	2397148	5908948	1991	2	15	11	21	54.76548	2.583	12.6419
207788	-42.02999	171.58	2392417	5907764	1991	2	15	11	22	35.64571	1.313	6.4
205390	-42.03442	171.6042	2394431	5907305	1991	2	15	11	24	17.26521	2.92	9.3918
208434	-41.90001	171.73	2404622	5922399	1991	2	15	11	25	39.65767	1.747	17.3
208435	-41.90001	171.73	2404622	5922399	1991	2	15	11	27	11.52013	1.182	17.3
208436	-41.90001	171.73	2404622	5922399	1991	2	15	11	27	28.72205	1.182	17.3
205217	-42.03819	171.7378	2405494	5907061	1991	2	15	11	27	55.77351	2.476	5.3835
205297	-41.90001	171.73	2404622	5922399	1991	2	15	11	30	28.6899	0.975	17.3
208437	-41.90001	171.73	2404622	5922399	1991	2	15	11	31	0.05655	1.753	17.3
208438	-41.90001	171.73	2404622	5922399	1991	2	15	11	31	6.75821	1.716	17.3
208439	-41.90001	171.73	2404622	5922399	1991	2	15	11	32	20.74667	1.021	17.3
208440	-42.02999	171.58	2392417	5907764	1991	2	15	11	32	57.61739	1.965	6.4
208441	-42.01689	171.5503	2389934	5909177	1991	2	15	11	34	25.81782	1.687	8
205218	-42.04409	171.5973	2393877	5906222	1991	2	15	11	34	34.29459	3.393	8.8945
208442	-41.90001	171.73	2404622	5922399	1991	2	15	11	36	42.4431	1.086	17.3
205392	-42.02999	171.58	2392417	5907764	1991	2	15	11	42	30.08705	2.256	6.4
208443	-42.02999	171.58	2392417	5907764	1991	2	15	11	43	56.07227	2.29	6.4
205298	-42.02999	171.58	2392417	5907764	1991	2	15	11	46	37.05251	1.987	6.4
208444	-42.02999	171.58	2392417	5907764	1991	2	15	11	47	53.00758	1.411	6.4

208445	-42.02999	171.58	2392417	5907764	1991	2	15	11	48	28.31664	1.869	6.4
205393	-42.02999	171.58	2392417	5907764	1991	2	15	11	51	29.06744	1.85	6.4
208446	-42.02999	171.58	2392417	5907764	1991	2	15	11	52	35.02733	1.122	6.4
201359	-42.02999	171.58	2392417	5907764	1991	2	15	11	54	37.9959	1.525	6.4
208447	-42.02802	171.6298	2396539	5908051	1991	2	15	11	54	54.37608	2.689	13.6119
208448	-42.06124	171.6261	2396290	5904356	1991	2	15	11	55	12.29509	2.592	1.599
208449	-42.05032	171.5931	2393535	5905524	1991	2	15	11	55	37.03161	3.182	8.4965
208461	-42.00766	171.6384	2397211	5910324	1991	2	15	11	56	31.00727	2.724	8.7254
205299	-42.02999	171.58	2392417	5907764	1991	2	15	12	2	26.46655	1.939	6.4
208521	-42.02999	171.58	2392417	5907764	1991	2	15	12	3	18.25731	1.959	6.4
208522	-42.02999	171.58	2392417	5907764	1991	2	15	12	4	23.56431	1.272	6.4
208523	-42.02999	171.58	2392417	5907764	1991	2	15	12	6	14.74874	2.471	6.4
208524	-42.02999	171.58	2392417	5907764	1991	2	15	12	7	37.43183	1.97	6.4
205301	-42.02999	171.58	2392417	5907764	1991	2	15	12	9	24.89751	2.081	6.4
208525	-42.02999	171.58	2392417	5907764	1991	2	15	12	10	6.46552	1.231	6.4
208527	-42.02999	171.58	2392417	5907764	1991	2	15	12	11	21.76759	0.974	6.4
205302	-42.02999	171.58	2392417	5907764	1991	2	15	12	12	48.66732	2.105	6.4
208529	-42.02999	171.58	2392417	5907764	1991	2	15	12	14	11.83687	1.169	6.4
208530	-42.02999	171.58	2392417	5907764	1991	2	15	12	14	30.75076	1.56	6.4
208528	-42.05188	171.6149	2395345	5905381	1991	2	15	12	14	39.51714	2.426	5
208532	-42.02999	171.58	2392417	5907764	1991	2	15	12	15	45.45871	1.481	6.4
208533	-42.02999	171.58	2392417	5907764	1991	2	15	12	16	49.0919	1.618	6.4
208534	-42.02999	171.58	2392417	5907764	1991	2	15	12	17	1.82631	1.425	6.4
201477	-42.02999	171.58	2392417	5907764	1991	2	15	12	20	48.71063	1.68	6.4
208535	-42.02999	171.58	2392417	5907764	1991	2	15	12	21	32.75758	0.938	6.4
208536	-42.02999	171.58	2392417	5907764	1991	2	15	12	21	59.12959	1.907	6.4
205394	-42.02999	171.58	2392417	5907764	1991	2	15	12	24	4.22029	1.413	6.4
208539	-42.02999	171.58	2392417	5907764	1991	2	15	12	24	16.78276	1.224	6.4
208541	-42.02999	171.58	2392417	5907764	1991	2	15	12	24	36.40048	1.977	6.4
208542	-42.02999	171.58	2392417	5907764	1991	2	15	12	26	3.18676	1.057	6.4
205395	-42.02999	171.58	2392417	5907764	1991	2	15	12	33	19.53672	1.475	6.4
208543	-42.02999	171.58	2392417	5907764	1991	2	15	12	34	33.34931	1.504	6.4
208544	-42.02999	171.58	2392417	5907764	1991	2	15	12	35	15.34314	1.459	6.4
205303	-42.05135	171.5546	2390353	5905356	1991	2	15	12	36	12.92258	3.084	8.7388
208545	-42.02549	171.6235	2396011	5908323	1991	2	15	12	37	31.30453	2.334	7.2586
205396	-42.02999	171.58	2392417	5907764	1991	2	15	12	39	51.47323	1.671	6.4

208546	-42.02999	171.58	2392417	5907764	1991	2	15	12	41	1.46075	1.05	6.4
208547	-42.02999	171.58	2392417	5907764	1991	2	15	12	46	19.69882	1.822	6.4
205304	-42.02557	171.6504	2398241	5908351	1991	2	15	12	47	40.47909	2.621	6.4
205397	-42.02999	171.58	2392417	5907764	1991	2	15	12	51	20.3936	1.611	6.4
208548	-42.02999	171.58	2392417	5907764	1991	2	15	12	51	46.90438	1.458	6.4
205305	-42.02931	171.6394	2397335	5907920	1991	2	15	12	57	22.00078	2.862	7.9955
208552	-42.02999	171.58	2392417	5907764	1991	2	15	13	1	18.59121	1.951	6.4
201361	-42.04126	171.5288	2388196	5906440	1991	2	15	13	1	35.27153	4.046	11.9199
205398	-42.03306	171.6171	2395492	5907474	1991	2	15	13	6	30.48864	1.967	6.4
205306	-42.02999	171.58	2392417	5907764	1991	2	15	13	15	7.97983	2.047	6.4
205307	-42.03247	171.7394	2405617	5907698	1991	2	15	13	20	47.16638	2.45	8.2072
205400	-42.02999	171.58	2392417	5907764	1991	2	15	13	22	43.66187	1.455	6.4
205401	-42.02999	171.58	2392417	5907764	1991	2	15	13	25	51.3703	1.283	6.4
208555	-42.02999	171.58	2392417	5907764	1991	2	15	13	26	41.45757	0.947	6.4
208583	-42.02999	171.58	2392417	5907764	1991	2	15	13	28	9.6776	1.129	6.4
208556	-42.02999	171.58	2392417	5907764	1991	2	15	13	28	13.64218	1.647	6.4
201362	-42.04818	171.5615	2390918	5905718	1991	2	15	13	36	26.90926	4.568	12.1327
208557	-42.04674	171.5903	2393301	5905918	1991	2	15	13	37	38.50071	4.241	8.2068
205402	-42.02999	171.58	2392417	5907764	1991	2	15	13	43	27.9653	1.597	6.4
201363	-42.02999	171.58	2392417	5907764	1991	2	15	13	44	13.95158	1.285	6.4
208540	-42.02374	171.6166	2395432	5908508	1991	2	15	13	45	36.69151	2.803	10.8975
205404	-42.02999	171.58	2392417	5907764	1991	2	15	13	53	28.83021	1.209	6.4
208549	-42.02999	171.58	2392417	5907764	1991	2	15	13	54	12.06324	1.262	6.4
208550	-42.02999	171.58	2392417	5907764	1991	2	15	13	55	13.49846	1.264	6.4
208553	-42.02999	171.58	2392417	5907764	1991	2	15	13	55	46.71039	2.324	6.4
205406	-42.02999	171.58	2392417	5907764	1991	2	15	14	4	23.54636	1.746	6.4
205407	-42.02999	171.58	2392417	5907764	1991	2	15	14	12	20.67757	1.637	6.4
205308	-42.0322	171.688	2401366	5907663	1991	2	15	14	15	51.34906	2.485	8.1735
205408	-42.02999	171.58	2392417	5907764	1991	2	15	14	27	52.22718	1.741	6.4
208559	-42.02999	171.58	2392417	5907764	1991	2	15	14	29	30.91476	1.21	6.4
205409	-42.02999	171.58	2392417	5907764	1991	2	15	14	33	27.0403	1.733	6.4
208560	-42.02999	171.58	2392417	5907764	1991	2	15	14	34	15.07623	1.933	6.4
205410	-42.02999	171.58	2392417	5907764	1991	2	15	14	40	52.51516	1.858	6.4
205411	-42.02999	171.58	2392417	5907764	1991	2	15	14	44	40.52758	1.986	6.4
208561	-42.02999	171.58	2392417	5907764	1991	2	15	14	45	57.53758	1.786	6.4
205412	-42.02999	171.58	2392417	5907764	1991	2	15	14	47	50.34002	1.151	6.4

205220	-42.02999	171.58	2392417	5907764	1991	2	15	14	55	14.78446	1.673	6.4
208565	-42.02999	171.58	2392417	5907764	1991	2	15	14	56	9.48759	0.997	6.4
208566	-42.02999	171.58	2392417	5907764	1991	2	15	14	57	2.52324	1.287	6.4
205413	-42.02999	171.58	2392417	5907764	1991	2	15	15	18	38.05184	1.955	6.4
208568	-42.02753	171.647	2397963	5908128	1991	2	15	15	30	52.16147	2.991	7.3364
205309	-42.04086	171.6329	2396817	5906629	1991	2	15	15	46	21.82049	2.619	4.742
205414	-42.02999	171.58	2392417	5907764	1991	2	15	15	53	0.72846	1.594	6.4
208569	-42.02999	171.58	2392417	5907764	1991	2	15	15	53	45.56276	1.104	6.4
205415	-42.02999	171.58	2392417	5907764	1991	2	15	16	21	37.62878	1.321	6.4
205416	-42.02999	171.58	2392417	5907764	1991	2	15	16	26	7.98676	1.293	6.4
208570	-42.02999	171.58	2392417	5907764	1991	2	15	16	27	10.19759	0.982	6.4
205417	-42.02999	171.58	2392417	5907764	1991	2	15	16	34	34.76379	1.613	6.4
205418	-42.02999	171.58	2392417	5907764	1991	2	15	16	45	51.72938	1.757	6.4
205419	-42.02999	171.58	2392417	5907764	1991	2	15	17	7	9.92186	1.131	6.4
205310	-42.0521	171.5782	2392312	5905306	1991	2	15	17	49	44.65281	2.792	13.3984
208571	-42.04352	171.5629	2391030	5906237	1991	2	15	17	50	36.83232	2.582	10.2852
205421	-42.02999	171.58	2392417	5907764	1991	2	15	17	53	59.41876	1.257	6.4
205221	-42.02999	171.58	2392417	5907764	1991	2	15	18	20	39.05618	1.388	6.4
205423	-42.05678	171.5572	2390577	5904756	1991	2	15	18	26	43.51011	2.459	8
205312	-42.02823	171.6042	2394418	5907993	1991	2	15	18	37	42.52078	2.976	8.3913
205154	-42.02999	171.58	2392417	5907764	1991	2	15	18	42	14.84674	1.887	6.4
205424	-42.02999	171.58	2392417	5907764	1991	2	15	18	47	20.76017	1.426	6.4
208572	-42.02999	171.58	2392417	5907764	1991	2	15	18	49	31.17479	0.998	6.4
205425	-42.02999	171.58	2392417	5907764	1991	2	15	18	51	11.70126	1.437	6.4
205313	-42.02617	171.7192	2403939	5908373	1991	2	15	19	35	37.49637	2.263	8.1507
208573	-42.04093	171.6082	2394770	5906588	1991	2	15	19	37	21.10624	2.507	9.0216
205161	-42.02999	171.58	2392417	5907764	1991	2	15	19	59	1.88654	1.386	6.4
205315	-42.02999	171.58	2392417	5907764	1991	2	15	20	6	48.38285	2.314	6
205426	-42.02999	171.58	2392417	5907764	1991	2	15	20	14	24.85579	1.943	6.4
205427	-42.02999	171.58	2392417	5907764	1991	2	15	20	26	8.45782	1.281	6.4
208574	-42.02999	171.58	2392417	5907764	1991	2	15	20	26	18.43018	2.312	6.4
208575	-42.02999	171.58	2392417	5907764	1991	2	15	20	27	21.79281	1.19	6.4
208576	-42.02999	171.58	2392417	5907764	1991	2	15	20	27	31.82983	2.372	6.4
205428	-42.02999	171.58	2392417	5907764	1991	2	15	20	28	39.11164	2.126	6.4
205429	-42.02999	171.58	2392417	5907764	1991	2	15	20	44	20.58149	1.639	6
205166	-41.90001	171.73	2404622	5922399	1991	2	15	21	16	44.42402	2.096	17.3

208577	-42.02999	171.58	2392417	5907764	1991	2	15	21	17	26.17369	1.533	6.4
205431	-42.02999	171.58	2392417	5907764	1991	2	15	21	59	11.00759	1.426	6.4
208578	-42.02999	171.58	2392417	5907764	1991	2	15	21	59	12.54759	1.434	6.4
208579	-42.02999	171.58	2392417	5907764	1991	2	15	22	1	3.38758	1.044	6.4
201486	-42.02999	171.58	2392417	5907764	1991	2	15	22	5	12.7076	1.515	6.4
205432	-42.02999	171.58	2392417	5907764	1991	2	15	22	27	56.95895	1.978	6.4
205433	-42.02999	171.58	2392417	5907764	1991	2	15	22	30	50.56344	1.723	6.4
208580	-42.02999	171.58	2392417	5907764	1991	2	15	22	41	46.88476	1.326	6.4
205435	-42.02999	171.58	2392417	5907764	1991	2	15	23	8	28.91837	1.38	6.4
208581	-42.02999	171.58	2392417	5907764	1991	2	15	23	10	51.60544	1.9	6.4
205436	-42.02999	171.58	2392417	5907764	1991	2	15	23	11	45.58929	1.929	6.4
205437	-42.02999	171.58	2392417	5907764	1991	2	15	23	44	12.76844	1.503	6.4
205316	-42.06469	171.58	2391645	5903896	1991	2	15	23	50	41.54807	2.623	6.4
201489	-42.02999	171.58	2392417	5907764	1991	2	15	23	58	38.17759	1.769	6.4
205439	-42.02999	171.58	2392417	5907764	1991	2	16	0	38	32.96759	1.303	6.4
205440	-42.02999	171.58	2392417	5907764	1991	2	16	1	3	35.46005	1.672	6.4
208584	-42.02999	171.58	2392417	5907764	1991	2	16	1	19	48.20596	2.021	6.4
205441	-42.02999	171.58	2392417	5907764	1991	2	16	1	26	31.79621	1.562	6.4
208585	-42.02999	171.58	2392417	5907764	1991	2	16	1	36	31.64973	1.424	6.4
205442	-42.02999	171.58	2392417	5907764	1991	2	16	1	40	29.01177	1.586	6.4
208586	-42.02999	171.58	2392417	5907764	1991	2	16	2	10	25.23296	1.519	6.4
204543	-42.02999	171.58	2392417	5907764	1991	2	16	2	13	1.76654	1.336	6.4
208588	-42.02393	171.5883	2393091	5908449	1991	2	16	2	21	54.93153	2.582	9.325
208587	-42.04084	171.6288	2396476	5906626	1991	2	16	2	22	23.54565	2.697	8.1821
205443	-42.02999	171.58	2392417	5907764	1991	2	16	2	49	25.28502	1.671	6.4
205082	-42.02999	171.58	2392417	5907764	1991	2	16	2	57	22.05759	1.248	6.4
208589	-42.02999	171.58	2392417	5907764	1991	2	16	2	58	56.93744	1.459	6.4
205318	-42.04767	171.6117	2395075	5905844	1991	2	16	3	15	29.25443	2.666	4.9743
205319	-42.02999	171.58	2392417	5907764	1991	2	16	3	25	20.7891	1.651	6.4
208591	-42.02999	171.58	2392417	5907764	1991	2	16	3	55	12.24131	1.609	6.4
205444	-42.02999	171.58	2392417	5907764	1991	2	16	3	58	28.0536	1.598	6.4
205321	-42.02684	171.6511	2398301	5908210	1991	2	16	4	46	53.18537	2.621	9.3281
205445	-42.02999	171.58	2392417	5907764	1991	2	16	5	12	4.92149	1.438	6.4
208592	-42.02999	171.58	2392417	5907764	1991	2	16	5	58	41.3354	1.497	6.4
205449	-42.02999	171.58	2392417	5907764	1991	2	16	6	6	54.75956	1.148	6.4
205451	-42.02999	171.58	2392417	5907764	1991	2	16	6	53	55.71984	1.259	6.4

205322	-42.04606	171.6329	2396823	5906051	1991	2	16	7	15	40.52369	2.389	5.6271
208594	-42.02999	171.58	2392417	5907764	1991	2	16	8	20	38.00177	1.498	6.4
205452	-42.02999	171.58	2392417	5907764	1991	2	16	8	35	45.16544	1.943	6.4
205248	-42.02999	171.58	2392417	5907764	1991	2	16	9	6	50.76021	1.141	6.4
205455	-42.02999	171.58	2392417	5907764	1991	2	16	10	18	34.95808	1.71	6.4
205456	-42.02999	171.58	2392417	5907764	1991	2	16	10	23	52.4536	1.403	6.4
205457	-42.02999	171.58	2392417	5907764	1991	2	16	10	41	36.83872	1.446	6.4
205223	-41.93737	171.7974	2410277	5918331	1991	2	16	11	27	16.43429	2.601	6.4
205460	-42.02999	171.58	2392417	5907764	1991	2	16	13	45	40.79032	1.43	6.4
205461	-42.02999	171.58	2392417	5907764	1991	2	16	14	14	52.06254	1.204	6.4
205462	-42.02999	171.58	2392417	5907764	1991	2	16	14	31	33.89872	1.749	6.4
205463	-42.02999	171.58	2392417	5907764	1991	2	16	14	44	46.9572	1.163	6.4
205471	-41.89	171.61	2394646	5923354	1991	2	16	16	0	15.83731	1.768	8.2
205472	-42.04092	171.6912	2401648	5906699	1991	2	16	16	12	24.70596	2.239	5
204559	-42.02999	171.58	2392417	5907764	1991	2	16	16	32	59.09559	1.525	6.4
205475	-42.02999	171.58	2392417	5907764	1991	2	16	17	13	30.43814	1.461	6.4
207708	-42.02999	171.58	2392417	5907764	1991	2	16	17	20	14.69718	1.521	6.4
205083	-42.02999	171.58	2392417	5907764	1991	2	16	17	43	46.08507	1.213	6.4
205477	-42.02999	171.58	2392417	5907764	1991	2	16	18	21	55.95814	1.986	6.4
205478	-41.89	171.61	2394646	5923354	1991	2	16	19	37	26.52663	1.467	8.2
205479	-41.89	171.61	2394646	5923354	1991	2	16	19	41	52.36246	1.088	8.2
205480	-42.02999	171.58	2392417	5907764	1991	2	16	21	30	27.63276	1.121	6.4
205331	-42.05025	171.6386	2397304	5905594	1991	2	16	21	56	15.62853	2.575	6.4
205481	-42.02999	171.58	2392417	5907764	1991	2	16	22	3	20.57351	1.431	6.4
208603	-42.02999	171.58	2392417	5907764	1991	2	16	22	31	1.89341	1.708	6.4
205482	-41.89	171.61	2394646	5923354	1991	2	16	22	39	0.85282	2.201	8.2
205483	-41.89	171.61	2394646	5923354	1991	2	16	22	52	1.50058	1.29	8.2
205484	-42.02999	171.58	2392417	5907764	1991	2	16	22	58	43.43361	1.326	6.4
205485	-42.02999	171.58	2392417	5907764	1991	2	16	23	6	6.71507	1.506	6.4
205333	-42.44414	172.145	2439670	5862394	1991	2	16	23	14	27.11754	3.008	5
205486	-42.02999	171.58	2392417	5907764	1991	2	16	23	24	3.59961	1.188	6.4
205495	-42.02999	171.58	2392417	5907764	1991	2	17	2	15	29.59676	1.212	6.4
205496	-41.89	171.61	2394646	5923354	1991	2	17	2	22	1.28166	1.304	8.2
205501	-41.89	171.61	2394646	5923354	1991	2	17	3	53	12.8301	1.233	8.2
205503	-42.02999	171.58	2392417	5907764	1991	2	17	4	41	29.16292	2.304	6.4
208604	-42.02999	171.58	2392417	5907764	1991	2	17	7	19	39.94153	1.318	6.4

205504	-42.02999	171.58	2392417	5907764	1991	2	17	7	37	17.52876	1.09	6.4
205505	-41.89	171.61	2394646	5923354	1991	2	17	8	37	26.59508	1.248	8.2
208605	-41.89	171.61	2394646	5923354	1991	2	17	8	38	39.47709	0.969	8.2
205337	-41.86654	171.4696	2382945	5925759	1991	2	17	9	14	31.19254	2.373	8
205338	-42.04948	171.5821	2392627	5905602	1991	2	17	10	57	13.15624	2.956	5.7291
208606	-42.02999	171.58	2392417	5907764	1991	2	17	10	58	35.24983	1.524	6.4
205508	-42.02999	171.58	2392417	5907764	1991	2	17	11	3	12.87121	2.323	6.4
208607	-42.02999	171.58	2392417	5907764	1991	2	17	11	5	6.12798	1.582	6.4
205339	-41.89577	171.6601	2398812	5922780	1991	2	17	11	33	4.03345	2.831	10.4717
205509	-41.89	171.61	2394646	5923354	1991	2	17	11	36	54.84845	1.155	8.2
208608	-42.02999	171.58	2392417	5907764	1991	2	17	11	37	51.6914	1.438	6.4
205510	-42.02999	171.58	2392417	5907764	1991	2	17	12	14	28.40654	2.201	6.4
205511	-42.02999	171.58	2392417	5907764	1991	2	17	13	49	15.57012	1.953	6.4
205512	-41.89	171.61	2394646	5923354	1991	2	17	13	59	54.6972	1.464	8.2
205513	-41.89	171.61	2394646	5923354	1991	2	17	15	30	20.94524	1.37	8.2
205340	-41.87429	171.683	2400673	5925196	1991	2	17	15	39	40.42696	2.924	10.7317
208609	-42.04428	171.6351	2397002	5906252	1991	2	17	15	41	2.86307	2.641	6.0663
205514	-41.89	171.61	2394646	5923354	1991	2	17	15	56	51.03857	1.346	8.2
205515	-41.89	171.61	2394646	5923354	1991	2	17	16	10	44.97524	1.54	8.2
205255	-42.0236	171.6031	2394318	5908506	1991	2	17	18	4	47.22909	3.023	13.3777
205342	-42.04257	171.6397	2397387	5906448	1991	2	17	18	17	18.36654	2.812	5.2261
205188	-42.02999	171.58	2392417	5907764	1991	2	17	18	56	35.78644	1.929	6.4
205516	-41.89	171.61	2394646	5923354	1991	2	17	21	13	44.17313	1.382	8.2
205346	-42.02999	171.58	2392417	5907764	1991	2	17	21	48	42.27546	2.087	6.4
205347	-41.89	171.61	2394646	5923354	1991	2	17	22	22	18.20872	2.309	8.2
205517	-42.02999	171.58	2392417	5907764	1991	2	17	23	7	46.33517	2.175	6.4
205348	-42.06271	171.6108	2395027	5904172	1991	2	18	0	9	15.73404	3.144	6.6288
204597	-41.8992	171.7663	2407633	5922533	1991	2	18	1	18	38.13921	3.184	12
205350	-42.04427	171.7769	2408745	5906433	1991	2	18	3	6	59.52468	2.228	4.8265
204789	-41.89549	171.908	2419388	5923107	1991	2	18	4	43	16.43945	2.75	6.4
205520	-42.02999	171.58	2392417	5907764	1991	2	18	5	0	34.6414	1.613	6.4
204790	-41.88376	171.7106	2402982	5924179	1991	2	18	5	35	33.88091	3.838	13.2513
205521	-41.89	171.61	2394646	5923354	1991	2	18	5	39	21.31606	1.653	8.2
208611	-42.02999	171.58	2392417	5907764	1991	2	18	5	39	53.62759	1.208	6.4
205522	-41.89	171.61	2394646	5923354	1991	2	18	5	53	15.2467	1.781	8.2
205523	-42.02999	171.58	2392417	5907764	1991	2	18	6	50	50.08956	1.399	6.4

205524	-41.89	171.61	2394646	5923354	1991	2	18	7	10	47.21408	1.484	8.2
205525	-41.89	171.61	2394646	5923354	1991	2	18	7	23	4.25252	1.199	8.2
204791	-41.89	171.61	2394646	5923354	1991	2	18	7	52	19.0179	1.269	8.2
205528	-42.02999	171.58	2392417	5907764	1991	2	18	9	14	56.657	2.351	6.4
204802	-41.89	171.61	2394646	5923354	1991	2	18	17	12	14.76688	1.644	8.2
205534	-41.89	171.61	2394646	5923354	1991	2	18	17	49	46.6468	1.672	8.2
205259	-41.89	171.61	2394646	5923354	1991	2	18	18	10	37.57157	1.313	8.2
205535	-41.89	171.61	2394646	5923354	1991	2	18	18	18	49.61727	1.421	8.2
205537	-42.02999	171.58	2392417	5907764	1991	2	18	19	41	52.57177	1.889	6.4
205117	-42.02999	171.58	2392417	5907764	1991	2	18	22	24	1.70347	2.062	6.4
205540	-42.02999	171.58	2392417	5907764	1991	2	18	23	6	34.55827	1.372	6.4
204809	-41.89	171.61	2394646	5923354	1991	2	18	23	47	9.01166	1.203	8.2
204954	-42.04141	171.6117	2395061	5906539	1991	2	19	23	47	55.62963	2.728	8.9296
207364	-42.05865	171.6278	2396423	5904646	1991	2	19	1	9	30.28523	2.41	5
204844	-41.92331	171.7952	2410069	5919890	1991	2	20	2	52	13.41463	2.81	12.9104
204845	-41.89	171.61	2394646	5923354	1991	2	20	3	44	58.69731	0.848	8.2
206665	-42.05561	171.6662	2399598	5905035	1991	2	20	7	28	16.8642	2.613	6.2706
207367	-42.02886	171.476	2383798	5907739	1991	2	20	17	48	55.53961	2.51	8
207246	-41.99537	171.6828	2400873	5911747	1991	2	20	20	33	32.90252	2.279	8
204917	-42.02699	171.6124	2395093	5908142	1991	2	21	23	20	30.82715	2.526	12.703
207498	-42.04311	171.6131	2395185	5906352	1991	2	22	2	30	53.23153	2.481	7.8857
207384	-42.01574	171.7351	2405238	5909551	1991	2	22	3	5	45.35673	2.399	9.2395
207340	-42.42899	172.2691	2449869	5864173	1991	2	22	23	1	40.86082	2.33	5
206800	-42.04652	171.572	2391785	5905917	1991	2	24	0	50	34.86227	5.079	12
210581	-42.05731	171.5988	2394020	5904755	1991	2	24	0	52	37.33428	3.919	11.0147
210582	-42.06168	171.6115	2395084	5904287	1991	2	24	0	55	43.94424	2.517	4.6136
210583	-42.02999	171.58	2392417	5907764	1991	2	24	0	57	59.46564	1.976	6.4
207416	-42.00182	171.4888	2384805	5910762	1991	2	24	1	29	32.13489	2.621	5
207418	-41.99831	171.6006	2394061	5911311	1991	2	24	1	37	19.19714	2.574	10.5227
207027	-42.05821	171.5909	2393370	5904645	1991	2	24	1	49	41.85992	2.405	8
207535	-42.0546	171.5946	2393672	5905051	1991	2	24	5	29	45.90892	3.464	9.4159
207424	-42.04771	171.5951	2393695	5905884	1991	2	24	10	29	40.9637	2.537	8
207427	-42.05474	171.6872	2401336	5905159	1991	2	24	15	54	49.44455	2.41	6.4
207548	-42.04956	171.6101	2394942	5905632	1991	2	24	21	16	34.10052	2.665	8.927
207432	-42.03336	171.6211	2395823	5907446	1991	2	25	0	26	51.16799	3.176	10.678
207046	-42.04525	171.6021	2394278	5906100	1991	2	25	10	23	57.34451	2.195	6.4

207440	-41.88484	171.5698	2391298	5923872	1991	2	25	13	14	14.44054	2.433	5
206872	-41.71289	172.187	2442348	5943649	1991	2	26	2	0	16.17536	2.751	5
209210	-41.92476	171.8472	2414383	5919789	1991	2	27	23	38	1.23221	2.248	5
206936	-42.0428	171.5568	2390524	5906309	1991	2	28	10	26	15.91667	4.096	8
209221	-42.03765	171.5933	2393532	5906932	1991	2	28	18	7	4.07142	2.454	8
207115	-42.33368	171.3652	2375284	5873711	1991	2	28	22	32	49.06818	2.591	8