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Teahnigal Report Astrononia Control Points
T.IF. Manning 2946

| /3 G13mour Island | 110\%** |
| :---: | :---: |
| 10 Kikkerteluk River | P.Q. |
| 68 Farner Island | 117\%.? |
| Cambridge Bay Viotoria Island | N.W.T. |
| 10 Cape Weggs | 2.Q. |
| 12 Karak Bay | P.Q. |
| 15 Kovik Rivez | P.Q. |
| 14 Swaficield How. Mansel Is. | N.W.2. |
| 15 Ospe Aoadia Mansel Is. | N.W.R. |
| 27 KInglet Lake | P.8. |


|  | Lat1tude | Longitude |
| :---: | :---: | :---: |
| Observed Position: ) <br> Tent: ) | $59^{\circ} 48^{\circ} 32^{\prime \prime} 7$ | $80^{\circ} 05^{\circ} 43^{\prime \prime} .2$ |
| $\begin{aligned} & \text { Tablet: } \\ & \text { Beacon: } \end{aligned}$ | $5948 \quad 32.3$ | 800542.6 |

This station was near the head of a long, winding bay on the south side of one of the northern Ottawa Islands, believed to be Gilmour Island. The islands are high and rooky, and the highest point on Gilmour Island may well.be l,800 feet, as given by Robert Bell and A.R. Gordon.

The observation position is marked by the tent in the photograph.

A Geodetic Service bronze tablet was cemented in solid rock 2 feet north of a 5 -foot beacon on a small rock knoll. It was 49 feet on azimuth $139^{\circ}$ from the observation station.

From the beacon to the end of the point to the northeast is about 200 feet. Three painted white stripes radiate from the beacon.

The R.O. was at the head of a small brook at the head of the main bay. It was distant 2,575 feet on azimuth $38^{\circ} 57^{\circ}$.

The magnetic station was distant 96 feet from the observation station in line with and sway from the R.O., the azimuth of which was $38^{\circ} 57^{\circ}$.

T.H. MANNING

To accompany 1946 photographs.

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1944 - #osat 3-GiJntour I.
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(For desomiption see 1944 mopart. Photographs 4895. 2 and 4295. 2 takon 9, July, 1946; remainder, 16, July. All except 4395. 1 taiken with 5if fooal length lens.)

4895.1


4895.3


1944 - Point 3-013mour I
3. W. 4,000 Et.

4295.5

Upper
ampow points to dot marlssag tublets lowes to园完

South
4,000 ft.


1944 - Point 8 - QiLacus I.

Axpow points to dot mariking tablet.

4895.7

Sast 4,000 8\%*


1944 - point 3-G11mour I.

$1944-$ point $^{2}$ - Qilnous Is

### 14.10180 4,000 It.



## 1944 - POINT 10 - KIKKERRTELUK RIVER

Observed Position:
Tablet :
Tent:

| $\frac{\text { Latitude }}{}$ |  | Longitude |
| :--- | :--- | :--- |
| $58^{\circ} 00^{\circ} 27^{\prime \prime} .7$ |  | $77^{\circ} 11^{\prime} 45^{\prime \prime} .0$ |
| 580027.2 | 771144.0 |  |
| 580027.8 | 771145.2 |  |

This station was on a small isthmus at the west side of the bay into which Nows the Kikkerteluk River. The bay is well delineated under the title LAND LOCKIaD HARBOUR on Robert Bell's map made from his survey of this coast in 1877. It appears to be an excellent harbour for sohooners or perhaps larger vessels. There was an Eskimo camp on the opposite side of the bay. Hills in the inmediate Ficinity of the 11x 51se to 650 feet, and higher hills an be seen close by.

The tent shown in photographs 68 and 77 was 12 feet from the observation station on azimuth $515^{\circ}$. In photograph 75, the position of the tent is shown on a conspicuous grass patoh.

A Geodetic Service bronze tablet was cemented in solld rook 73 feet from the observation station on an azimuth of $130^{\circ}$.

A 8 -foot beacon was built 3 feet past the tablet and is shown in photographs 73, 74.

The R.O. was at the extreme north point of a small island at a moderate tide such as in photograph 74. The azimuth of the R.O. was $228^{\circ} 00^{\prime}$ and it was distant 5,416 feet.

The magnetic station was distant 100 feet from the observation station, and in Iine and towards the R.O., the azimuth of which was $226^{\circ} 58^{\prime}$. Bell gives the variation here as $31^{\circ} 50^{\circ} \mathrm{W}$ (Geol. Survey 1879).

## 1944 - Point 10 - Kikkerteluk River

(For description see 1944 report. Photographs taken 9, July 1946, with 5" focal length lens.)

## Lower

arpow points to dot marking beacon and tablet; upper arrow
to R.O.

West 4,000 fto

4290.1

IN. W.
4,000 ft.


Wo $\mathrm{Ti}_{0}$ 师
4,000 rt .

4950.3

Lower
aryow paintsto ato mawising beacons upper to ReG。
S. ${ }^{2}$

$4,000 \mathrm{ft}$

4390.5


1944 - point 10 - Kikkerteluk River
S. P.

4,000 2t.

4890.6



|  | $\frac{\text { Latitude }}{}$ | Longitude |
| :--- | ---: | ---: | ---: |
| Observed Position: | $58024^{\prime} 577^{\prime \prime} 9$ | $80047^{\prime} 05 \%$ |
| Tablet: | 582458.4 | 804705.6 |

This station was at the north end of a small uncharted island whoh has been named Farmer Island. The highest point in the island was near the observation station and was about 45 feet.

From the top, the only land risible was a small rock-like island about 10 miles to the south. The observation was taken on s amall pebble beach facing east below the hill.

A Geodetic Service bronze tablet was cemented into a small rertical rock face comprising the S.E. side of the hill, being in azimuth 3600 from the instrument and 50 feet distant. The tablet was marked by a white $Y$ painted on the rock. In the accompanying photographs this shows as a $V$.

The R.O. was the right hand point of the left hand island guarding the harbour. Its azimuth was $41^{\circ} 50^{\prime \prime}$, but no time was taken to obtain the distance as this was an extra fix of unknown use.

The accompanying sketoh is without assistance of measured distanees or angles.

T.H. MANNING

To accompany 1946 photographs.

## 1946 - Famer Island

(For description see 1944 report.
Photographs taken 16, July 1946
with $5^{\prime \prime}$ foosl length lens.)
S. 1.

4,000 ft.

4294.1

Tablet marised by oircle suryounds second island.

South $4,000 \mathrm{ft}$


4294. 3

Arrow
points
to R. O .

## 2. $\mathrm{E}_{0}$ <br> 4,000 1t.



Tablet mariked by

Lower
arrow points to
R.O. upper to Ottawa I. (?)

4294. 5


4894.7


4294. 9



FARMER ISLAND NW.T.
$\triangle$ TABLET
REFERENCE OBJECT
Scale: 1 nech-1 mile
T.H.Manning

Geodetic SErvice of Canada

## GAMBRIDGE BAY VIGTORIA ISJABD

## 1946



Map: National Topographic Series, Cambridge Bey sheet. Monument: A Geodetic Service bronze tablet was wedged Into a large, alriost buried, igneous boulder about 25 feet southeast of the southeast comer of the R.C.lif. Poliee barracks. The fablet wes 35 feet distent on aziruth $140030^{\circ}$ from the observing instrument.

Date: Havah 22-23; 24-25.
Identirioation $\mathbf{i s}$ given here and on the accompunying sheets of photographs.

Zquipment: Tavietook Theodolite No. 380 . Chsonometer Ho. 13505. Stop Fateh T.S. No. 2660.

Observation Datat Bay's Method: 22 sets of stars. UWV tims aignal.

Desoription of Observation Station: The observation station was 10 Seet
from the southrest corner of the R.C.ll. Police barracks whiah bore $351030^{\circ}$ srom the instimument.

Reference objects: (2) The nearest corner of the Hudson's Bey Company's dwelling bore $244029^{\circ}$ from the instirwient. (2) The mast of the M.C.M. St. Rooh bore $219045^{\circ}$ from the instruatent.
Burrounding Country: The surrounding country consists of Low ridges of disintegrated
1irestone above which Mount Pelly rises conspicuously.
Photographs: The photographs were taken with an R.C.A.I. type F24 omera with a foesl longth of lens 5.0 inches.
T.H. Manning

Geodetic Service of Canada 0ttewe

Cambridge Bay 1946 Observation Station


Arrow points to tablet.



Left arrow points to observation station.

Right arrow points to the R.O.(2).


Cambridge Bay 1946

R.C.M. Police barracks.


|  | Latitude | Longitude |
| :---: | :---: | :---: |
| Observed Position: | $62^{\circ} 23^{\prime} 29.91$ | $73^{\circ} 33^{\prime} 25{ }^{\prime \prime} .50$ |
| Tablet Position: | 622328.51 | 735324.48 |
| Beacon Position: | 622329.68 | 733324.95 |
| Magnetio Station: | 622328.70 | 733327.33 |

Map: National Topographic Series. Hudson Strait West.
Monument: A Geodetio Service bronze tablet was cemented into solid rook. The tablet was 150 feet distant on azimuth $161{ }^{\circ} 16^{\circ}$ from the observing instrument. A $6-$ foot beacon was built 35 feet from the observing instrument on azimuth $132^{\circ}$. The beacon and 3 rays extending from it were white-washed.

Date: August 28-29.
Identifioation: is given here and on the acompanying sketch map and sheets of photographs.

Sketch Map: The sketoh map was plotted from photographs by the perspective grid method.
Equipment: Tavistook Theodolite No. 380.
Observation Data: Ball's Method. Bight sets of stars. WWV time signals were taken before, during and after the observation.

Desoription of Observation Station: The observation station was in a bay about 6 miles southeast of Cape Weggs. It was on a sand beaoh about 30 feet above high tide limit. The xight (east) end of a smali."1sland shown on the National Topographio map bore $70^{\circ} 21^{\prime \prime}$ true. Mud flats extend to this island at low water.

Reference Object: The reference object was the east point of the bay at high water (see photograph 4390.6). It bore 82037! true. The eentre of Outer Island bore $70^{\circ}{ }^{51}{ }^{\frac{7}{7}}$.

Magnetio Observations: Six magnetic observations were taken. The azimuth of the magnetic reference ob ject was $35^{\circ} 0617$ from the magnetic instrument. The magnetio Instrument was 150 feet distant from the observation instrument, and in line with and away from the magnetic R.0.

Surrounding Coutmy: off the points the water is deep, but the beys are filled with 耳ud and large boulders whith are loft drying at low tide. On land there are rook hills from 600 to 1,000 feet, separated by marshy valleys.
Photographs: The alr photographs were taken with an R.C.A.F. type FR4 camera with a focal length af 5 inches.
T.H. Manning

Geodetio Sertice of Canada
Ottawa

## 1946 - Point 10 - Gape Weggs, P.Q.

(Ground photographs taken Aug. 28 ; air photographs on sept.io)

4390.1

Worth. Tent and beacon.

## Arrow points to beacon.



Sou th 4,000 1t.

4390.4

Arrow points tp beacon


South

1946 - polnt 10 - Cape Weggs
$\Delta$ maxiss beacon: arrow points to R.O.
E. $\mathrm{N}_{0} \mathrm{~F}_{0}$ 4,000 Pt.

4390.6


4390.8
W. $\mathbb{N}_{0} \mathrm{~F}_{0}$ 4,000 $\mathbf{~ f t}$.

4390.9


$$
\text { Point } 12 \text { - KORAK BAY, P.Q. - } 1946
$$

|  | Latitude | Longitude |
| :---: | :---: | :---: |
| Observed Position: | $60^{\circ} 45{ }^{\prime} 02.45$ | $77^{\circ} 40^{\prime} 08.25$ |
| Tablet Position: | 604501.97 | 774008.25 |
| R.O. Position: | 604532.5 | 774119.4 |

Map: National Topographic Series. Cape Smith Sheet.
Monument: A Geodetic Service bronze tablet was cemented into solid rock beside a 6 -foot white-washed beacon with 3 white-washed rays extending from it. The tablet was 44 feet distant on azimuth $180^{\circ}$ from the observing instrument.

Date: Night of August 8-9.
Identification: is given here and on the accompanying sketch map and sheets of photographs.

Sketch Map: The sketch map was plotted from photographs by the perspective grid method.

Equipment: Tavistock Theodolite No. 380.
Observation data: Bell's Method. Seven sets of stars. Ww observation.

Description of Observation Station: The observation station was about 1600 feet
from the end of a long, narrow point, the southernmost of three similar points between Korak River and the Cape Smith Range. The coast-line from Korak Bay to Agnes Smith Point was without large indentations.

Reference Object: The reference object was a large rock on the western end of a small isl and marked in photograph 4386.7. It was distant 4700 feet on azimuth $311^{\circ} 12^{\prime}$. The southern end of Cape Smith bore approximately $265^{\circ}$ true.
Magnetic Observations: No magnetic observations were taken.
Altitude of Station above Sea Level: About 15 feet.
Surrounding Country: To the southwest the land is low and
Plat. Korak Bay is the southermost of three inlets separated by long, narrow points. These inlets are continued on the land as well-marked valleys separated by rather abrupt and narrow ridges which, near the coast, fise to about 150 reet. To the north they become higher, and the Cape Smith Range could be plainly seen.

Photographs: The photographs were taken with an R.C.A.F. type F24 camera, focal length 5 inches.
T.H. Manning

Geodetic Service of Canada
Ottawa

4386.1

4336.2
M. $\mathrm{IF}_{0}$
$1, \mathrm{COO} \mathrm{Et}$

4386. 3

Raet
1,000 2\%.

$\mathrm{N}, \mathrm{W}$ 。 1,000 5 t.

4386. 5

427? ${ }^{2}$
points to
R. $\mathrm{O}_{6}$ :

10wes to beacon.

N. N 。 1,000 Stw

4386.5

H2? ${ }^{2}$ points to R. 0.3 10wes to beacon.

2. 5 W.

2,000 2t.

```
1946 - Point 12 - Koralc Bay
```

Lert
arrow points to beacon; pight to R. $\mathrm{O}_{4}$

West
1,000 2t.

4386.7
S. S.W.
1,000 ft.




$$
\text { POINT } 13 \text { - KOVIK RIVER, P.Q. - } 1946
$$

|  | Latitude |  | Longitude |
| :--- | :---: | :---: | :---: |
| Observed Position: | $61^{\circ} 35^{\prime} 07^{\prime \prime} 65$ | $77^{\circ} 51^{\prime} 16 .^{\prime \prime} 75$ |  |
| Tablet Position: | 613507.59 | 775116.04 |  |
| R.O. Position: | 613436.68 | 7753 | 28.45 |
| Magnetic Station: | 613507.3 | 77 | 5119.3 |

Map: National Topographic Series. Cape Smith Sheet.
Momument: A Geodetic Service bronze tablet was cemented. into a boulder about 4 feet in diameter. Beside it was built a 6 -root white-washed beac on with 3 white-washed rays extending from 1t. The tablet was 35 feet distant on azimuth $100^{\circ}$ from the observing instrument.
Date: Night of August 11-12.
Identifleation: is given here and on the accompanying sheets of photographs including a photostat of the high altitude survey photograph 1-2084 I - 7823. The position of the station an be clearly seen on the cape Smith sheet.

Equipment: Tavistock Theodolite No. 380.
Observation Data: Ball's Method, Right sets of stars. WwV observation.

Description of Observation Station: The Observation station was on the isthmus of a point jutting westwards on the south side of the mouth of Kovik River. This point is clearly shown on the National Topographic map.
Reference Object: The reference object was the extremity of the point shown on photograph 4387.4. It was distant 7120 feet on azimuth $253^{0} 47^{\prime}$.

Magnetic Observations: Three magnetic observations were taken. The azimuth of the magnetio reference objeot was $253^{\circ} 40: 2$ from the magnetic instrument. The magnetic instrument was 130 feet distant from the observation instrument and in line with and towards the magnetio R.O.
Surrounding Country: Hills in the immediate Vioinity do not rise more than about 200 feet above the sea. They are rounded and inconspicuous in outline. There are no well-gitarked valleys. Some of the hills are prabably morainio, and boulders cover the country, but rook in situ shows in places.
Photographs: The photographs were taken with an R.C.A.F.type F24 camera, focsi length 5 inches.

## 1946 - Point 13 - Kovik River

(Photogrephs taken 12, Sept.)

Arrow points to beacon at tablet
8. Best 1,000 ft.

4387.1


*rooveg og somot $9 * 0 \%$ of sąurod mosto aedta

*2ร $000^{\circ} \%$ $4{ }^{\circ}{ }^{\circ}$

$$
1946 \text { - point } 13 \text { - Kovis River }
$$




Observation statian is at aentre of rec airele.
Avvon pointe to weference ohjects

CONTROL POINT 14
1946

## SWAFFIELD HARBOUR NWT.

$\triangle$ tablet
Reference object

Scale:4inches=1 mile
T. H. Manning

Creodetic Senvice of Canada

$$
\text { POINT } 14 \text { - SWAPPIELD HAPBOUR, WANSEL ISLAND - } 1946
$$

|  | $\frac{\text { Latitude }}{}$ | Longitude |
| :--- | :---: | :--- |
| Observed Position: | $62^{0} 22^{\prime} 49^{\prime \prime} .96$ | $79^{\circ} 44^{\prime} 09^{\prime \prime} 00$ |
| Tablet Position: | 622850.48 | 794409.51 |
| Magnetio Station: | 622248.0 | 794425.1 |

Name: Swaffield Harbour was named for 1M. A.T. Swaffield who was in charge of the Hudson's Bay Company's post there some ten years ago.
Map: National Topographic Series. Hudson Strait West.
Monument: A Geodetio Service bronze tablet was cemented into the southeast corner of the eoncrete foundation of the unfinished Department of Cransport Radio builaing. The tablet was 65 feet distent on azimuth $324^{\circ}$ from the observing instrument.

Date: Night of August 21-22.
Identifioation: is given here and on the accompanying sketch map and sheets of photographs.

Sketch Map: The sketoh map wes plotted from photographs by the perspective grid method.

Equipment: Tavistock Theodolite No. 380.
Observation Data: Ball's Method. Y sets of stars. WWV time signals were taken berore, during and after the observation.

Deseription of Observation Station: The observation station was on the west side d the herbour at the north end of Mansel Island. The southwest comer of the unfinished Department of Transport building was 65 feet distant on azimuth $324^{\circ}$ and the northeast corner of the main Hudson's Bay Company's building 210 feet distant on ez1muth $230^{\circ}$ (see photegraph 4389.3.) It bore $53014^{\prime \prime}$ from the observing station.

Magnetic Observations: Four magnetic observations were taken.
The azimuth of the magnetio reference object was 55000 ? 3 from the magnetio instrument. The magnetio instrument was 350 feet distant irom the observation instrument, and in line with and away from the magnetio R.0.

Surrounding Country: The surrounding ountry consisted of raised beaches of disintegrating
limestone. The highest ground within 2 miles of the harbour was not over 100 feet. Further inland it may reach 200 feet, but not more. There is a very little marshy grassiand at the head of the harbour, and along the shore to the west. Otherwise the limestone is bare.

Photographs: The photographs were taken with an R.C.A.F. type P24 camera with a rocal length of 5
inches.

[^0]
# 1946 - point 14 - Swaffield Herbour 

(Photographs taken 19, Sept.)

Aprow points to corner of building where tablet placed.

South 1,000 st .
E. S. H . 1,000 ft.

4389.1


1946 - Point 14 - Swaffield Harbour

4389.4

4389. 5

West 1,000 st.

4389.6

## 3. 16 1,000 st。


4389.7

4389.9


|  | Latitude | Longitude |
| :---: | :---: | :---: |
| Observed Position: | $61^{\circ} 35^{\circ} 05.79$ | 79051 '03"58 |
| Tablet Position: | 613506.57 | 795104.85 |
| R.O. Position: | 613433.85 | 795126.51 |
| Magnetio Station: | 613506.24 | $795059.5 \%$ |

The southern cape of Mansel Island has been named Cape Acadia after the C.G.S. "Acadia" from whioh the coast of the 1sland was mapped in 1914 by Captain Anderson.

Map: Nationel Topographio Series. Cape Smith Sheet.

| $\frac{A}{a}$ | A Geodetio Service bronze tablet was cemented in a 200 -pound boulder partially buried along side |
| :---: | :---: |
| de | trom 2 white-washed 45-galion petral drums fill |
| h gravel. | - Three rays extending from the beacon were |
| hite-washed | on the surrounding gravel. The tablet was |
|  |  |

Date: Night of August 18 - 19.
Identification: is given here and on the accompanying sheets of photographe.

Sketoh Map: The sketoh map was plotted from photographs by the perspective grid method.

Equipment: Tavistook Theodolite No. 380.
Observation Data: Ball's Method. Slx sets of stars. WVV time signals were taken before, during and after the observation.

Description of Observation Station: The observation station wes on the west coast of Mansel Island about 1 mile from the extreme south point of the island. It was about 50 feet inland from the northwest shore of a shallow oove.

Reference Objeet: The reference object was the southeast point of the coje (see photograph 4388.3). It was 3430 feet distant on azimuth $198^{\circ} 55^{7}$.

Magnetic Obsergations: Six magnetic observations were taken. The azimuth of the magnetic reference ob ject was $76^{\circ}$ 4l:8 from the magnetio instrument. The magnetic instrument was 200 feet distant from the observation instrument, and in line whth and towards the magnetic R.O.

Surrounding Country: The surrounding country consisted of disintegrated limestone beaches among which were lakes and marsh land. The country was so flat that elevations of 10 or 15 feet were remarkable.

Photographs: The photographs were taken with an R.C.A.F. type F24 camera, with a focal length of 5 inches.

[^1]
## 1946 - Point 15 - Cape Acadia

(Ground photographs taken 18, Aug.; air, 13 Sept.)


East
4388.1
4388.2

Beacon and tent.

4388.3

1946 - PoInt 25 - Capo Acaata
${ }_{2,50}^{3,500}$


```
Lert 
axwom
potnts to
baagon:
might to
R.O.
```

3.3025 1,000 fto


1946 - Point 15 - Cope Acadia

4388.8

4583.0
fox


$$
\text { POINT } 17 \text { - KTNGLEP LAKE, P.Q. - } 1946
$$

Observed Positions:
Tablet Position:
R.O.(1) Position:

Magnetio Station:

| Latitude | Longitude |
| :---: | :---: |
| $54^{\circ} 44^{\prime} 22.20$ | $75^{\circ} 06^{\prime} 02^{\prime \prime} 25$ |
| 544423.76 | 750604.20 |
| $54 \quad 4347.17$ | $75 \quad 0703.15$ |
| 54.4421 .1 | 750601 |

The lake on which the station is situated has been colled Kinglet Lake from the number of ruby-crowned kinglets

Map: National Topographic Series. Lae Bienville sheet. Monument: A Geodetic Service bronze tablet was cemented into a partially buried boulder. It was 195 feet distant on azimuth $324^{\circ}$ from the observing instrument.

Dates: Night of June 28-29.
Identifleation: is given here and on the acompanying sketoh map and sheets of photographs.

Sketoh Map: The sketoh map was plotted Irom photographs by the perspeotive erid method.

Equipment: Tavistook Theodolite No. 380.
Observation Data: Ball's Method. Bight sets of stars. WWV time signal before, after and during

## observation.

Desoription of Observation Station: The observation station was 15 feet distant from the extreme and of the southeast point of a small island. The island was separated from the north shore of the lake by a strait which at its narrowest was only about 100 feet wide and 3 feet deep.

Reference Object: Reference object (1) was the extrome end of the point shown on photograph No.4384.9. It was 5040 feet distant on azimuth, $2250^{\circ} 0^{\circ}$ R.O. (2) (photograph NO. 4384.11 ) bore $82008^{\prime}$ from observing station.
Magnetic Observations: Sighteen magnetic observations were taken. The azimuth of the magnetio reference objeot was $259051: 1$ from the magnetic instrument. The magnetic instrument was 120 feet distant from the observation instrument, the latter being in ine with it and between it and the R.O.

Altitude of Station above sea Level: feet.
Surrounding Country: The surrounding country is rough and boulder-strewn. With several small oliffs and other exposures of salld rook which consists ohierly of grey granites and gneisses. About 1 mil mies northnortheast of the station a hill rises 300 or 400 reet above the lake. The highest hills in the vicinity are not above 600 feet above the lake. Most of the country north of the

Polnt 17 - Kinglet Lake, P•R. 1946 - Page 2

## lake was burnt about 20 years ago. The island and the country to the south is unburnt. <br> Photographs: The photographs were taken with an R.C.A.F. type PLA camera, focal length, 5 inches.

2.H. Manning Geodetic Servioe of Canada Ottawa
(Ground photographa taken 3 Julyt a1r, 26) June.


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1946 - Point 17 - KInglet Lake
```


## $\Delta$ marics tent.



4384. 6


Weat
$4,000 \mathrm{ft}$

1998 - Point 37 - Kindet Leice


4384.10

Axpoy pelats to 8.0. (9)

Bast
4,000 It.


## 1946 - point 17 - Kinglot Laike

## $\mathrm{N}_{8}$ 通 4,000 56.



Upper
axwow polate to 8.0. (8) Lower to $\mathrm{R}, \mathrm{O}_{0}$ (2)

3act
4,000 If.


T.H. Manning

Geacdetic Service of Conoda


[^0]:    T.H. Manning

    Geodetio Service of Canada

[^1]:    T.H. Manning

    Geodet10 Service of Canada

