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[SANC] -15.44714 167.20320

1953 m

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[SANC] -15.44714 167.20320

343 m

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IRHO SANTO VANUATU

Lat: 15°26' S

Lon: 167°12' E

H: 110 M

STATION PERMANENTE.

Situe a IRHO Station experimentale des oleagineux distance de 10kms de LUGANVILLE.Prendre la route vers PORT OLRY.

Contact: Mr NAKEDAU DAVID agent orstom santo tel: 00678 36360 ou IRHO fax:00678 36355. TEL:36320

SURVEY DEPT tel:00678 36330 fax:00678 36560.

Avant d aller au site,avec la station sismologique,prevenir l administration IRHO de votre passage.

La station GPS est a l interieur de la plantation derriere les logements sur un plateau bien degage.Dans un enclos a mouton.Bien fermer les portails a chaque passage.

on peut se rendre en voiture normale par temp sec.

On peut se loger a la maison de passage,voir la secretaire.

Acheter sa nouriture a luganville.

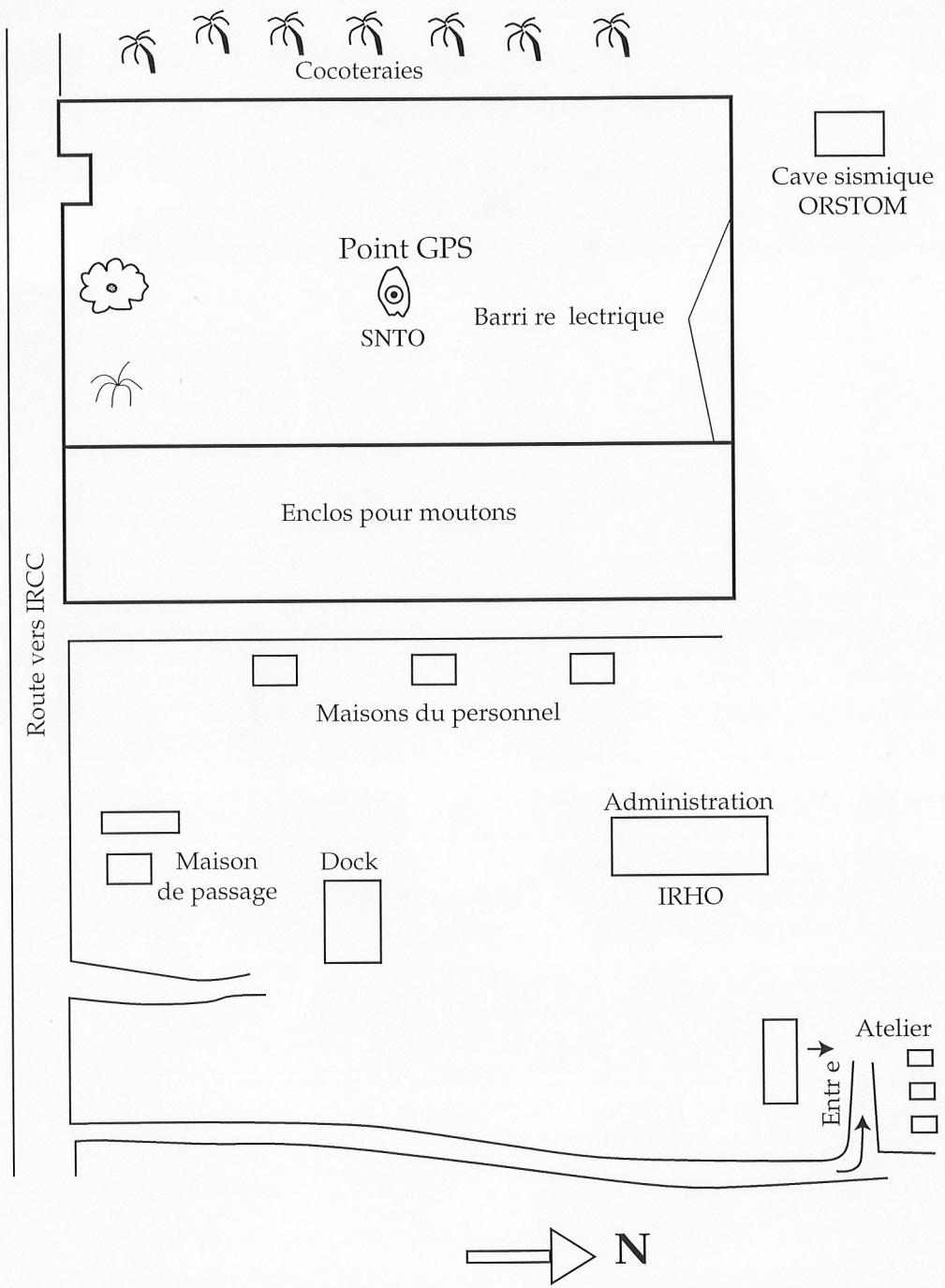
Pas de probleme pour l eau et electricite.

Au campement du personnel il y a un petit magasin

ACRONYME : SNTO

Lieu dit : Irho

Ile : SANTO (Vanuatu)



UNAVCO

University Navstar Consortium

GPS Site Description Log**PROJECT NAME SWPP 92 Organization's Name**

version 2.0 May, 1991

This report should be completed in DETAIL to provide uniformity in data essential to station occupation and GPS experiment planning. It also aids in station recovery and reoccupation. Please provide the requested information.

Station Name: I.R.H.O

4-Char ID: I.R.H.O

Station ID #: I.R.H.O

Location: I.R.H.O centre

City: Lugsaville, Santo

Country: Vanuatu

Site Address (if applicable):

Reported By: S. Leibowitz CALTRANS Agency: CALTRANS Tel#: (687) 2610 00

Approximate Geodetic Coordinates GPS Mark Inscription: stainless steel pin

Latitude: 15° 26' 57.13" S Datum:

Current Magnetic Declination: 12°

Longitude: 167° 12' 14.62" E Source of Position: GPS

Rate & Direction of Change:

Height: 110 m

Source of Declination:

Topographic Map or Aerial Photo Showing Location

Name: _____ Scale: _____

Agency: _____ Date Compiled: _____

Time offset from UTC

Standard: +11 Daylight 6 - 18

No seasonal time changes observed **Information Included in this report (Check all that apply)**

- | | |
|--|--|
| <input type="checkbox"/> How to Reach the Station & Site Description | <input type="checkbox"/> Site Survey & Information /Results |
| <input type="checkbox"/> Site Vicinity Sketch | <input type="checkbox"/> Photos of all Marks (Label Photos) |
| <input type="checkbox"/> Local Map Showing Site Location | <input type="checkbox"/> Photos of Station from Reference Points |
| <input type="checkbox"/> Ancillary Information Form | <input type="checkbox"/> Photos of Landmarks from Station |
| <input type="checkbox"/> Horizon Mask Diagram | <input type="checkbox"/> Other (Specify) |

Site Ownership/Permission

Who owns the site? I.R.H.O centre

Explain procedure required to obtain permission to occupy this particular site:

Primary Site Contact: Mr. MORINAC Mr. AGUERZ

ask to Director.

Title: Director of I.R.H.O.

It is better to be announced in advance (team booking).

Address: I.R.H.O

If sheep, sheep, it is possible to ask that they are removed.

City, State, Zip: Lugsaville, Santo

Country: Vanuatu

Tel#: _____ Fax: _____

Existing Geodetic TiesIs this part of an existing Geodetic Network? Yes No UnsureIf yes, what type of network is it? Horizontal Vertical 3-D

What agency is responsible for the network?

What is the accuracy classification of this network?

What other space-geodetic systems use this site? Fixed VLBI Mobile VLBI DSLR None Unsure

What agency is responsible for the other system's operation?

Has a survey tie been made to the GPS station? Yes No

Comments: I asked to the topo dept to fix the GPS marks to the two auxiliary marks.

Station: 124-0

Date: 21st July 1992

PROJECT NAME
SN PP 92

Summary of On-Site Geodetic

See Code Below Add Comments if Need

Agency	Inscription	Approx. Location from Station Dist (m)	Azimuth	Mark Type	Condition	Mark Setting	Soil Type

Mark Types (Indicate all that apply)

J = JPL Rod and Cap
R = Steel Rod Only
B = Brass Cap
P = Other Cap
M = Magnetic Material in Point
O = Other (Specify)

Condition: (Indicate all that apply)

S = Mark solid in soil
L = Loose in soil
M = Mark is marrred
U = Mark is Un-marrred
C = Center point is unreadable
N = Center point not well defined
O = Other (please specify)

P = In poured concrete form or post F = set flush with ground
 = In concrete in depression in rock B = Set below ground
 C = Cemented into drillhole in rock A = Set above ground
 M = Mounted on metal or pier (Specify)
 G = In concrete structure, i.e. foundation (specify)
 O = Other (specify)

Soil Type:

A = Alluvium/Soft
B = Boulder
C = Compact Soil
R = Rock outcrop
U = Bedrock under
soil
O = Other (Specify)

Comments where necessary on: Mark type, condition, stability and setting, Soil type and condition. Geological setting and any factors that may affect the stability of the mark. (i.e. land slides or erosion). If constructing a monument describe what is underground and construction details. Use sketches and attach additional sheets if necessary.

Site Survey

Has a survey been performed to determine the relative, 3-D locations of the station and reference marks? Yes No Unsure

If yes, what type of survey was it? GPS Conventional

What is the expected/achieved accuracy of the survey? _____ Date of Survey: _____

Which agency performed the survey? _____

Who has the original field notes or data? _____

Who performed the data reduction and adjustment? _____

Comments on the site survey: _____

Attach all available survey information to this report

Station: IRH-0

Date: 21st July 1992

PROJECT NAME
SWEP 92

Site Access: What type of transportation is needed to gain access to the site (boat, 4WD, 2WD, inaccessible by vehicle, etc)? Please comment on the effort required to reach the site (long hike, assistance needed to carry gear, pack mule). If assistance is needed make recommendations.

a 2WD car is enough -

attach additional sheet if necessary

On-Site Facilities: Discuss any on-site facilities available to support GPS operations. Can the receiver be placed in a building? Is the building safe? How far is the building from the station? Is office or storage space available?

the site is within a research center. It can provide sufficient room, electricity, safety --

attach additional sheet if necessary

Power:

Is AC power available on-site? Yes No
 Voltage 230 V. Frequency 50 Hz. Distance from power source to receiver: 30 m Meters

Comment on stability and reliability:

ONLY ~10 hours/day.

Discuss any special equipment that may be required, describe outlets (sketch if needed) and state any costs if required.

outlets ok with the surge suppressor provided by ONARCO -

Batteries:

Where can batteries be purchased (try and include several options, comment on type and costs)?

Several shops in town Luangville - (~10 km far)

~\$80 US a 50Ah battery

Batteries can easily be borrowed from LDC Works and other places (reliability ~90%)

Ask the topo dept about this

Generators can be borrowed from Topo dept or rented (\$200/day), Ask Topo

Where can batteries be charged (try and include several options, and indicate best option)?

at MRCO (at post time) or at topo dept, ~10 km far (in town)

Is a generator or solar panels needed at this site? Yes No

Any comments?

In case of emergency, MRCO or custom can give one.

Station: 18ft2

Date: 21st July 92

PROJECT NAME
SW PP

Equipment Recommendations: List ancillary equipment that may be useful at this site (antenna cable length, tent, etc.)

Since the work is in a hole, a longer string and longer plumb rope would allow an easier positioning of the tripod. It is very dangerous to even check if the crosshairs are on target after heavy rain. TC.

Recommended - Hammer 3 steel pipes (2 inch diam) in ground to support tripod feet. This is not 100% efficient. TC → Length of 55-60cm for 1st then 40cm for the other. attach additional sheet if necessary

Communications: What modes of communications are available at or near the site (telephone, fax, telex, radio, mail, indicate locations)? State the best mode of communication. Make recommendations and give instructions. Supply all relevant numbers or radio frequencies. Access quality, operating hours, frequency of delivery.

phone at IARO;
phone at Togo (more reliable);

public phones at Yamete, Luganville (quite)
fax

attach additional sheet if necessary

Adverse Conditions: Discuss any conditions that could adversely affect operations. Include things like potential sources of multipath, radio frequency interference, cultural or political sensitivities, adverse weather conditions, etc.

The field may be occupied by sheep or cows.

Worse than that, it may be occasionally visited by sheep in search of freedom (sheep don't have the reputation to be smart!). Shirley, Shansalt (OL Bestell) (TC)

attach additional sheet if necessary

Other Site Contacts: List all possible persons providing assistance at this site. Include all those visiting the site with you, other local contacts providing assistance, US embassy contacts etc. Indicate rolls and include institutions, mailing addresses, telephone and fax numbers, etc. (include yourself)

David Notredame, PRSTON (contact at ONTRON, Port Vila or IARO itself)

Albert Bue, Togo dep't of Yamete, Luganville (quite reliable) TC

Charles Rakoa " " "

attach additional sheet if necessary

Station: 1RHO

Date: 21st July 92PROJECT NAME
SWP (P)

Station Name: 1RHO

4-Char ID: 1RHO

Station ID #: 1RHO

Location: 1RHO, Luangville,

City: Luangville

Country: Laos

Site Address (if applicable):

Reported By: S. Colmant

Agency: DIASTON

Tel#: (687) 261000

Verbal Site Description: Describe how to reach the site from an identifiable location such as a city, town, major intersection or landmark. Include street names, distances and direction of travel. Verbally describe the site. Indicate relative locations of all monuments and the monument locations relative to landmarks. Describe each monument (what it is set in, what it is, inscription and condition).

In Luangville (main town of Savannakhet), take the main road eastward turn left at the police station. Pass the hospital, then the cemetery. Drive about 5 km. When arrived at a small village on the sea side, select the left road. About 1 h after, stay on the left at the cross road (leave the track in front of you). When arrived at the 1RHO, ask for the director, Mr. Colvez or Mr. Norin. If not, take the track climbing to the plateau in direction of 1RCC. The GPS mark is located in the second field on your right, just before the coconut plantation.

(white gate) -

In the field, walk about 120 m N 40° and look for 3 holes dig in the ground (~70 cm deep) -

The one used for the SWP 92 survey is the one the furthest of the coconuts, i.e. the closest to the houses.

attach additional sheet if necessary

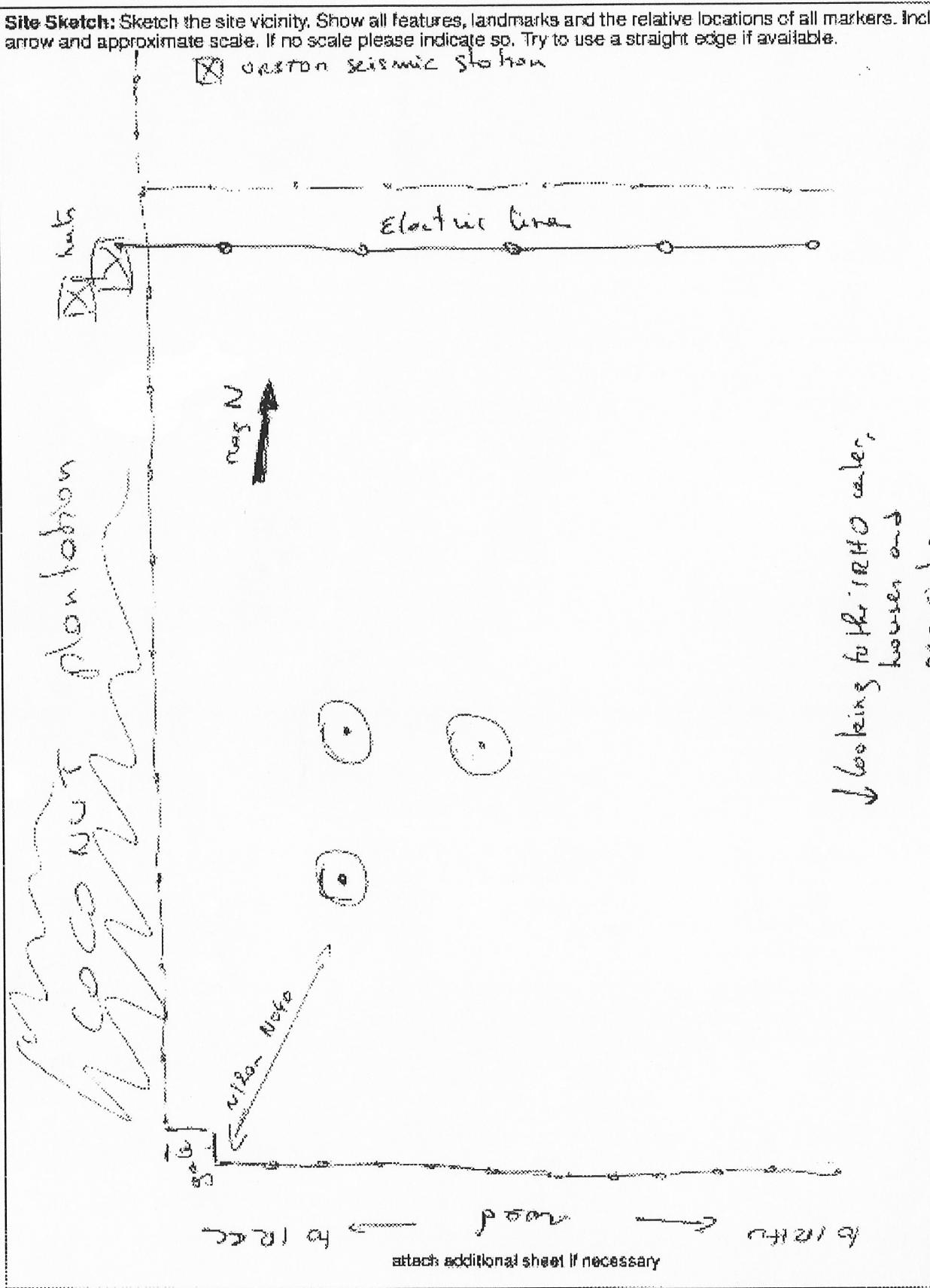
Station: JRH-O

Date: 21st July 92

PROJECT NAME

Site Sketch: Sketch the site vicinity. Show all features, landmarks and the relative locations of all markers. Include a North arrow and approximate scale. If no scale please indicate so. Try to use a straight edge if available.

JASTON Seismic Station

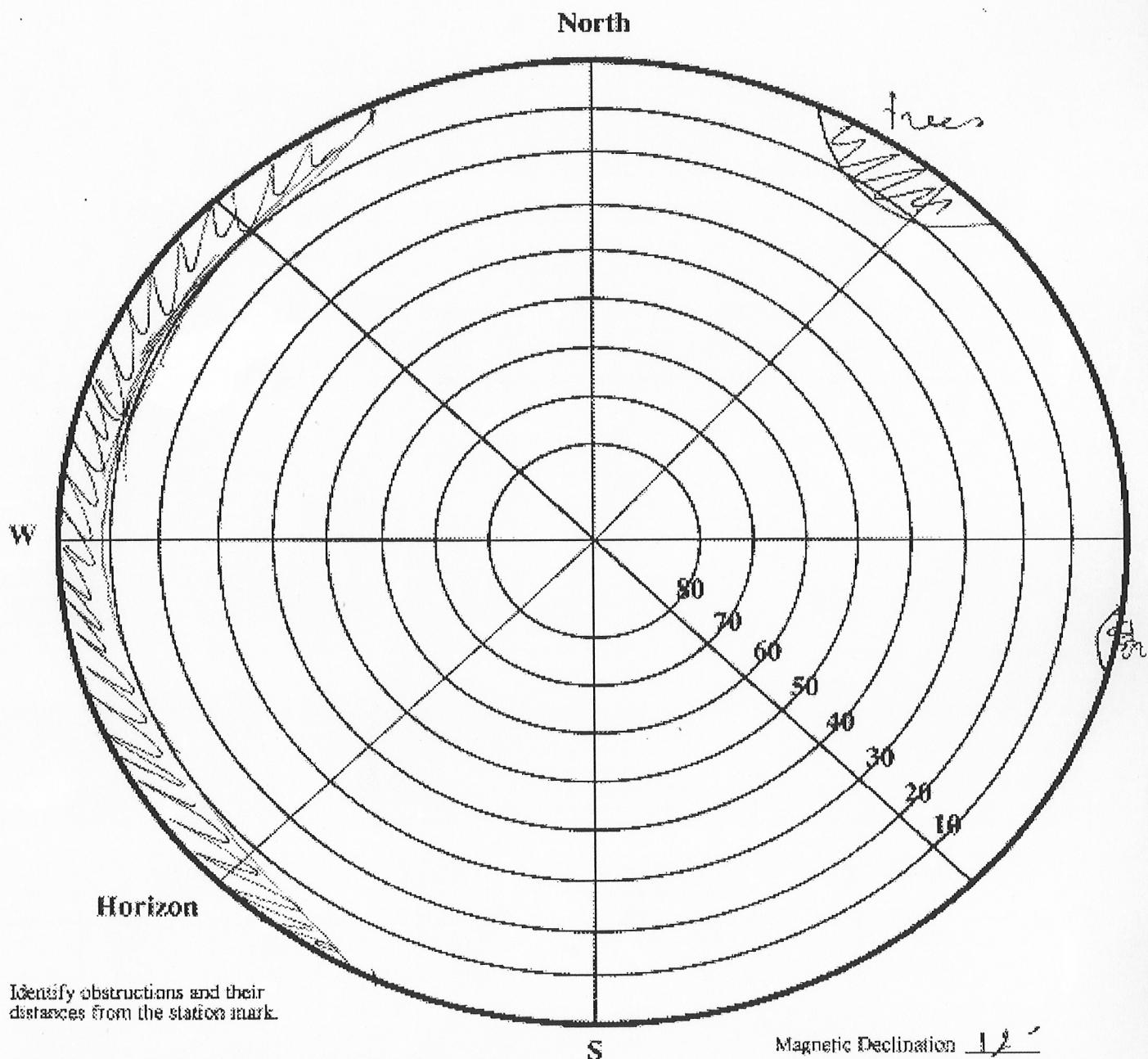


↓ looking to the north
house and
area & tree.

Station: _____ Date: _____

PROJECT NAME

GPS Station Horizon Mask



Height above marker that horizon was mapped from: _____

Magnetic Declination 12'

Declination applied to this figure? Yes

No

Station Name: <u>I R H O</u>	4-Char ID: <u>I R H O</u>	Station ID #: <u>I R H O</u>
Location: <u>I H O</u>	City: <u>Luganville</u>	Country: <u>Vanuatu</u>
Site Address (if applicable): _____		
Reported By: <u>S. C. M. ant</u>	Agency/Instn: <u>ONSTAN</u>	Tel#: <u>(687) 261020</u>

UNAVCO

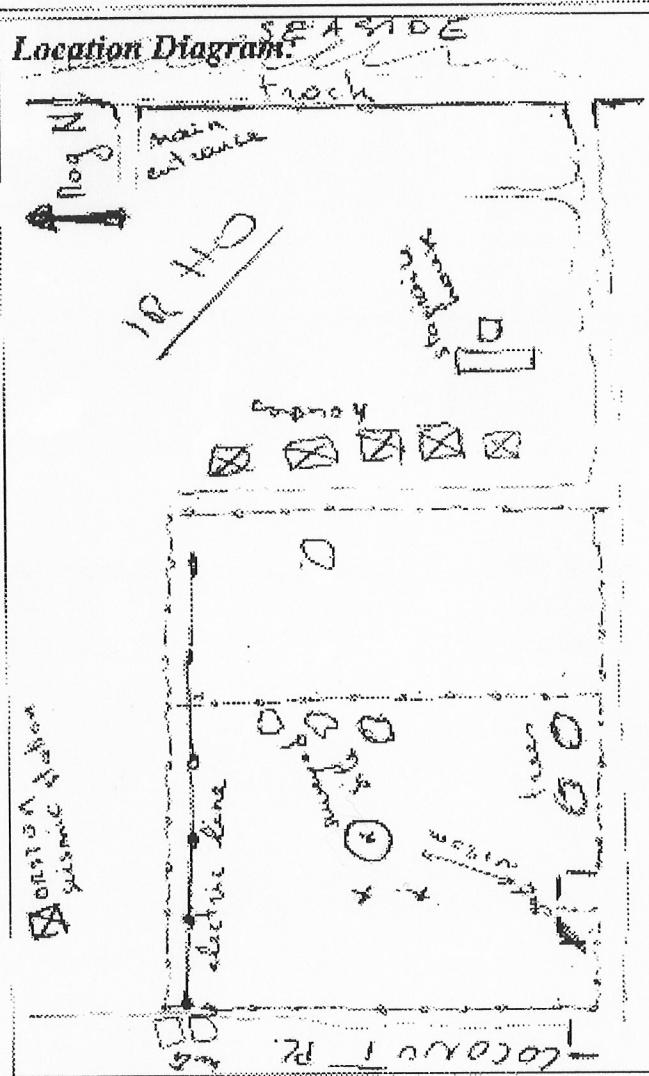
University Navstar Consortium

GPS Station Description

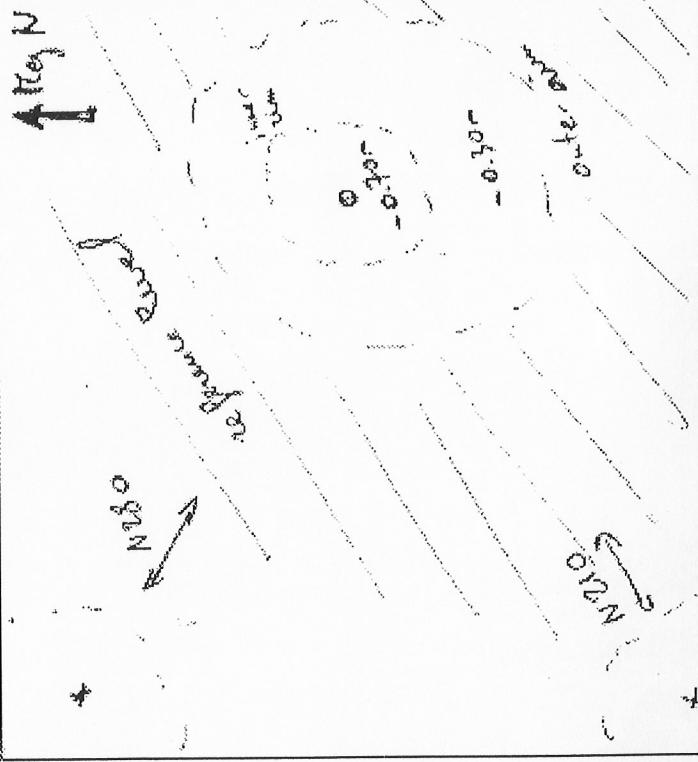
UCAR, Boulder, CO., USA

Station Name: IRHO4-Char ID: IRHOStation ID #: IRHOLocation: IRHO, Sargantua, SantoCountry: VANUATUObserving Monument Inscription: Stainless Steel PinProject: SW Pacific**Approximate Geodetic Coordinates:**Latitude: 15° 26' 56.18"S Datum _____ Magnetic Declination 12 ELongitude: 167° 12' 13.96"E Source of Position _____ Rate & Direction of Change _____Height: +0156.8 m 15 mm Source of Declination MAP**Site Personnel:**

Name	Agency
S. CALMANT	DRSTOM
A. BUE	TOPO, SANTO

Location Diagram:**Access Notes:**

Need a car to transport big yellow box and car on-trunk batteries (very steep slope from IRHO). After heavy rain, it is very hard for a two-wheeled drive car to go from the road to the marks through the field. In such a case, use special tires or even four-wheel drive.

Rubbing or Photo of Monument: Indicate the exact point that the instrument was centered over and include North arrow.

Station _____

UTC Start Date _____ UTC Start Day _____