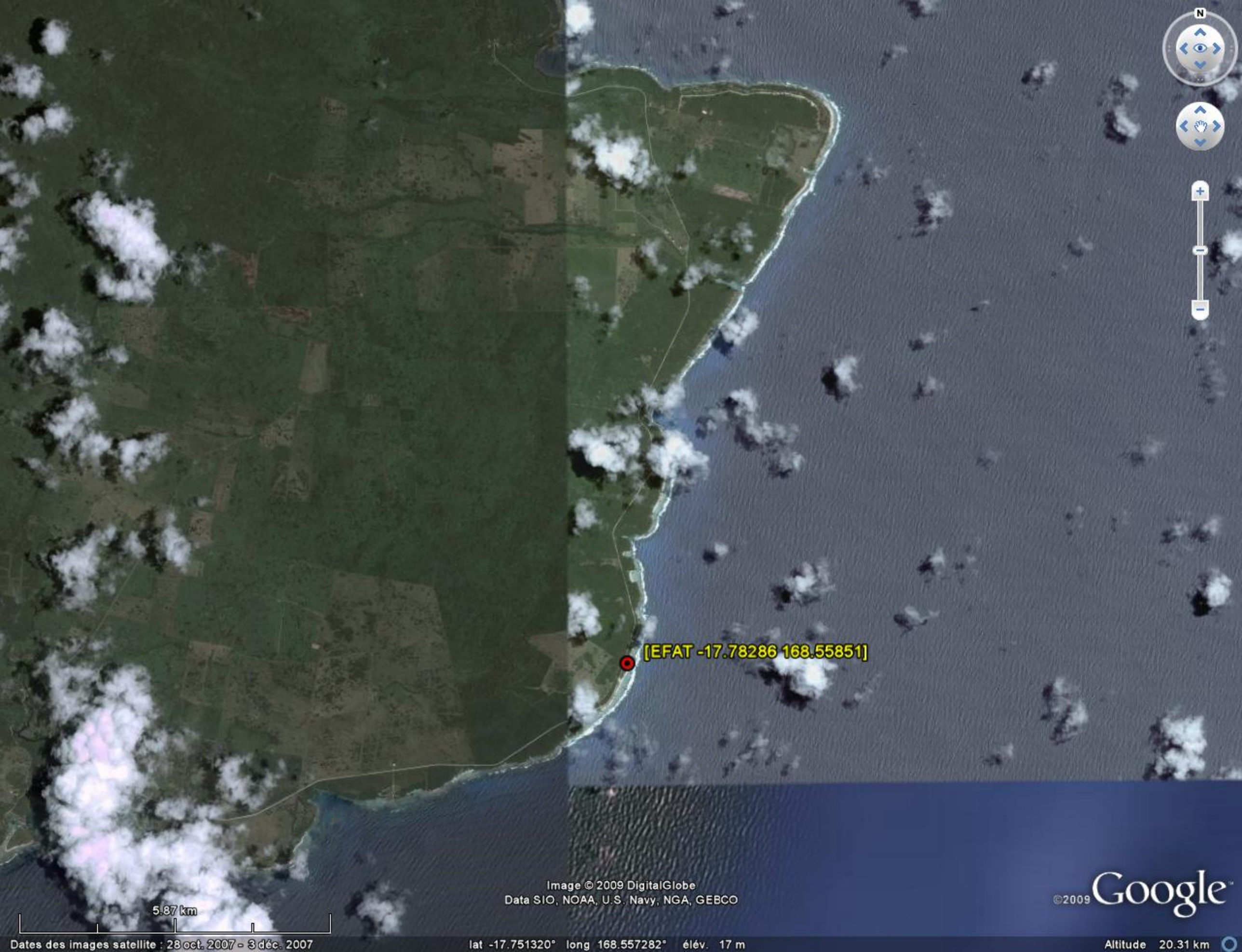
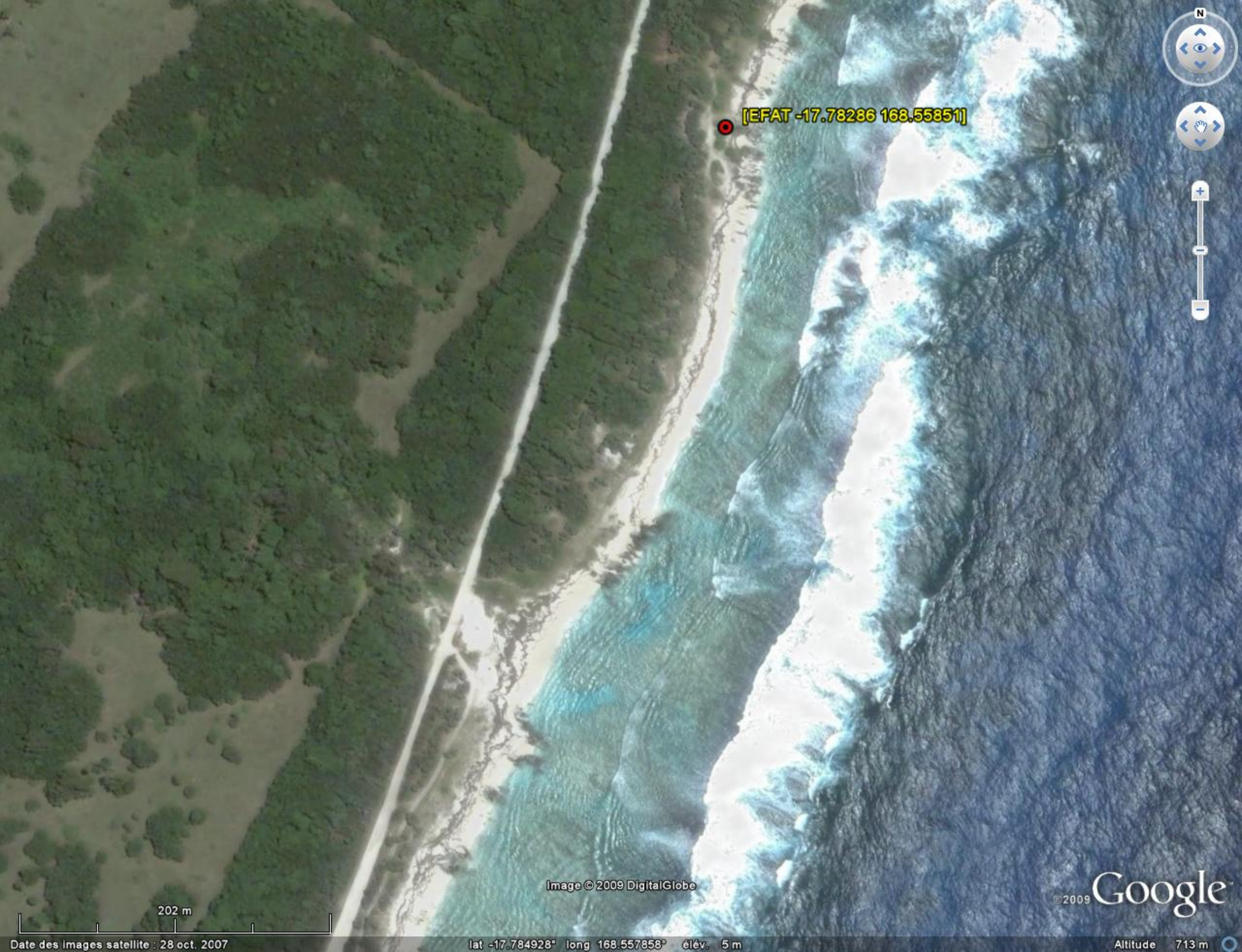

N
[EFAT -17.78286 168.55851]
Image © 2009 DigitalGlobe
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image © 2009 TerraMetrics
14.4 km
©2009 Google
Dates des images satellite : 2 oct. 2004 - 13 févr. 2008
lat -17.674338° long 168.400420° élév. 218 m
Altitude 47.98 km


N
[EFAT -17.78286 168.55851]
Image © 2009 DigitalGlobe
Data SIO, NOAA, U.S. Navy, NGA, GEBCO
©2009 Google
5.87 km
Dates des images satellite : 28 oct. 2007 - 3 déc. 2007
lat -17.751320° long 168.557282° élév. 17 m
Altitude 20.31 km


[EFAT -17.78286 168.55851]
N
202 m
Image © 2009 DigitalGlobe
©2009 Google
Date des images satellite : 28 oct. 2007
lat -17.784928° long 168.557858° élév. 5 m
Altitude 713 m

ETON EFATE VANUATU

Acronyme:EFAT

Lat: 17°46 S **-17.78286**

Lon: 168°30 E **168.55851**

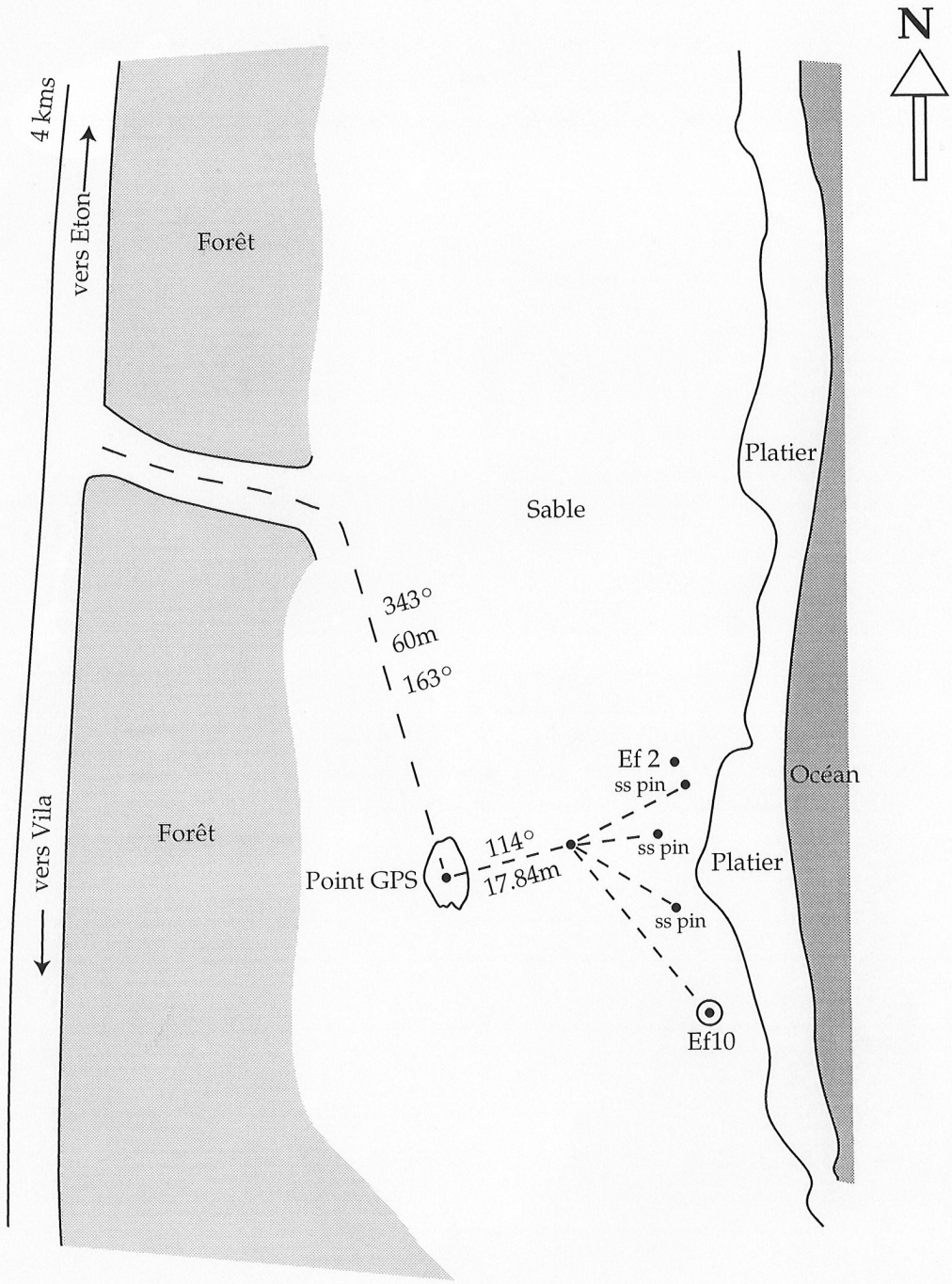
H: 70 **68.37**

Station situe au sud/est de port vila.
A 4 Kms avant d arriver au village de ETON,juste
apres le creek sec.
Pas evident de trouver le point.
Contacter l equipe ORSTOM VILA pour vous accompagner
la premiere fois. TEL:00678 22907 FAX:00678 25857.
ou le SURVEY DEPT DE VANUATU auTEL:22427 FAX:25973.
Chercher la plaque LAND SURVEY DEPT et se reperer par rapport
aux distances inscrites sur le plan du dossier.
Avant de s installer prevenir le chef de ETON au village meme.
Endroit ensable,on s enlise facilement en voiture.
Prevoire sa tante,sa nourriture, et de quoi camper.
Prevoir de l eau potable pour boire.

STATION EFAT ETON

coordonnées approchées :

Lat :
Long :
h : m



UNAVCO
University Navstar Consortium

GPS Site Description Log
PROJECT NAME

version 2.0 May, 1991
Organization's Name

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: EFATE 4-Char ID: EFAT Station ID #: —
Location: EFATE IS., DRY CREEK City: Country: VANUATU
Site Address (if applicable) :

Reported By : DAVID JERICHO Agency : LANDS S.A. Tel# : FAX (618) 2264276

Approximate Geodetic Coordinates GPS Mark Inscription: NONE, ISOLATED STAINLESS STEEL PIN
Latitude: S 17° 46' 58."3 Datum: WGS 84 Current Magnetic Declination: 12°E
Longitude: E 168° 33' 30."6 Source of Position: GPS Rate & Direction of Change:
Height: +70 m Source of Declination :

Topographic Map or Aerial Photo Showing Location
Name: Scale:
Agency: Date Complied:

Time offset from UTC
Standard: +11 hr Daylight
No seasonal time changes observed ☐

Information Included in this report (Check all that apply)

- ☑ How to Reach the Station & Site Description
- ☑ Site Vicinity Sketch
- ☐ Local Map Showing Site Location
- ☐ Ancillary Information Form
- ☑ Horizon Mask Diagram
- ☐ Site Survey & Information /Results
- ☐ Photos of all Marks (Label Photos)
- ☐ Photos of Station from Reference Points
- ☐ Photos of Landmarks from Station
- ☐ Other (Specify)

Site Ownership/Permission
Who owns the site? CUSTOM OWNERS — ETON VILLAGE
Primary Site Contact: FRANCIS BONDOUX
Title:
Address: ORSTOM / MINERAL RESOURCES BP76 PORT VILA, EFATE
City, State, Zip:
Country: VANUATU
Tel# (678) 22268 Fax: (678) 23276

Explain procedure required to obtain permission to occupy this particular site:
WHEN OCCUPYING THE SITE THE CHIEF AT ETON VILLAGE SHOULD BE NOTIFIED.

Existing Geodetic Ties
Is this part of an existing Geodetic Network? ☐ Yes ☑ No ☐ Unsure
If 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 ☐ SLR ☑ 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: DURING THIS PROJECT A GPS TIE WAS PERFORMED TO A NEARBY LOCAL MARK. THE LOCAL MARK IS AN IRON PIPE IN CONCRETE WITH (EFZ10A) SCRATCHED IN THE CONC.

PROJECT NAME

Station: EFATE **Date:** 5 AUG. 92

Summary of On-Site Geodetic — *See Code Below Add Comments if Needs*

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

Mark Type (include 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: (Include all that apply)
S = Mark solid in soil
L = Loose in soil
M = Mark is marred
U = Mark is Un-marred
C = Center point is unreadable
N = Center point not well defined
O = Other (please specify)

Mark Setting: (Include all that apply)
P = In poured concrete form or post F = set flush with ground
D = In concrete in depression in rock B = Set below ground
C = Cemented into drillhole in rock A = Set above ground
M = Mounted on mast or pier (Specify)
S = In concrete structure, i.e. foundation (specify)
O = Other (specify)

Soil Type:
A = Alluvium/Soil
B = Boulder
C = Compact Sedi
R = Rock outorop
U = Bedrock unde 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

Site Access: What type of transportation is needed to gain access to the site (boat,4WD,2WD,inaccessable by vehicle, ect)? 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.

2WD WILL GET YOU TO WITHIN 100m OF THE SITE. EQUIPMENT CAN BE CARRIED FROM HERE. THE REMAINING 100m TO THE SITE IS SANDY AND WOULD REQUIRE A 4WD.

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?

NONE.

attach additional sheet if necessary

Power:

Is AC power available on-site? ☐ Yes ☑ No

Voltage _____ V. Frequency _____ Hz. Distance from power source to receiver: _____ Meters

Comment on stability and reliability:

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

Batteries:

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

TWO 12V CAR BATTERIES WERE SUPPLIED BY ORSTOM

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

WHEN REQUIRED BATTERIES WERE RECHARGED BY ORSTOM

Is a generator or solar panels needed at this site? SOLAR PANELS ☑ Yes ☐ No

Any comments?

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

THE SITE IS IDEAL FOR CAMPING BUT FOOD AND WATER SUPPLIES WILL NEED TO BE BROUGHT FROM VILA.

USEFUL EQUIPMENT - TENT
- LIGHT WEIGHT SLEEPING GEAR
- SMALL BURNER, COOKING UTENSILS, ETC.

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.

NO COMMUNICATIONS AT THE SITE. COMMUNICATIONS IN VILA.

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 STATION IS ONLY ABOUT 30m FROM THE SEA. WITH PREVAILING ONSHORE WINDS THERE MAY BE ALOT OF SALT SPRAY.

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 JERICHO - GPS OPERATOR, LANDS SOUTH AUST., FAX (618) 2264276

MIKE BEVIS - PROJECT INVESTIGATOR, NCSU, FAX 919-515-7802

BARB PERIN - SENIOR GEODETIC ENG., UNAVCO

FRANCIS BONDOUX - ORSTOM, FAX (678) 23276, TEL. 22268

attach additional sheet if necessary

Station: EFATE **Date:** 5 AUG. 92 **PROJECT NAME**

Station Name: EFATE 4-Char ID: EFAT Station ID #: —
Location: EFATE IS., DRY CREEK City: Country: VANUATU
Site Address (if applicable):

Reported By: DAVID JERICHO Agency: LANDS S.A. Tel#: FAX (618) 2264276

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).

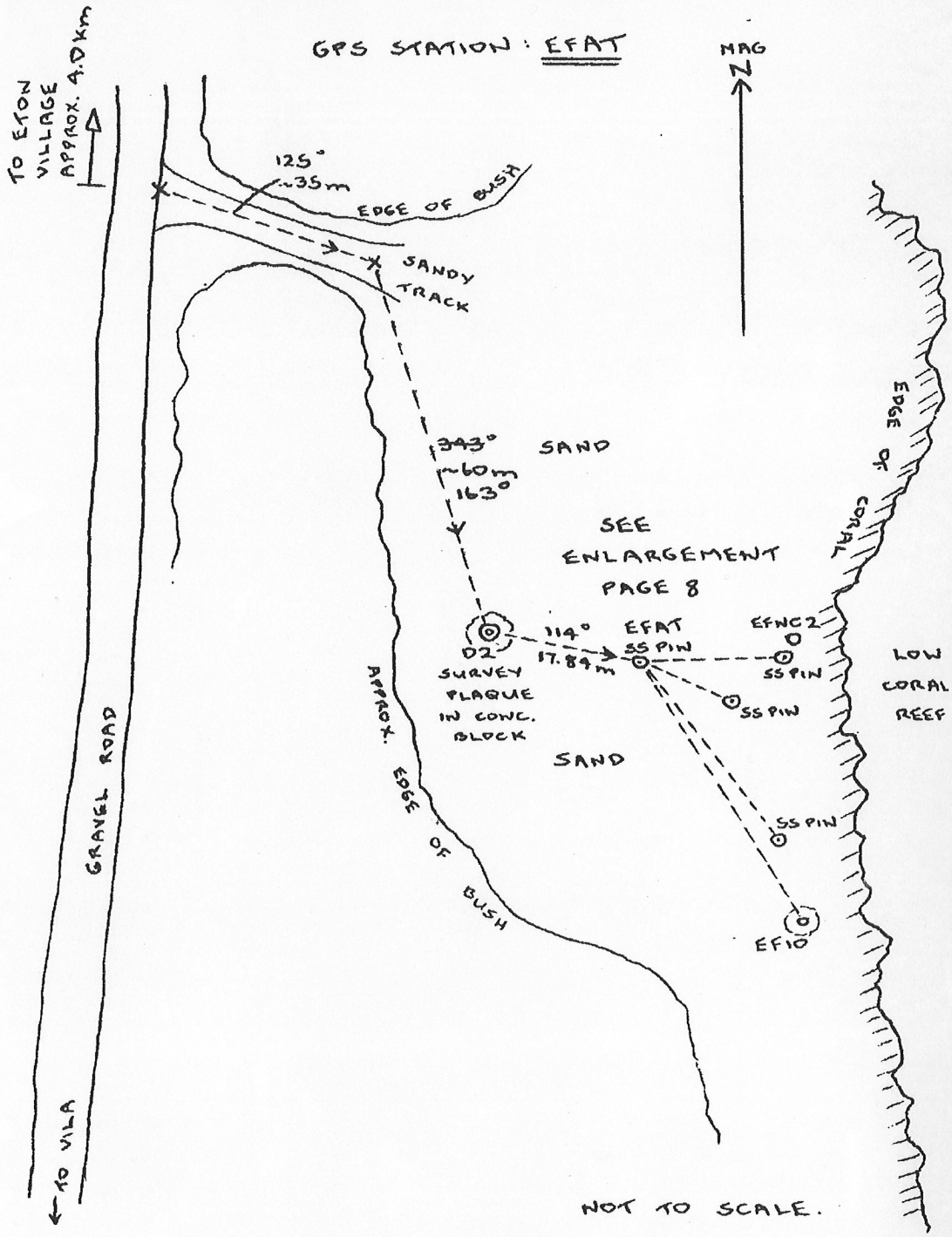
FROM VILA TRAVEL TO THE SMALL VILLAGE OF ETON WHICH IS ON THE SOUTH EASTERN SIDE OF EFATE ISLAND. (APPROX. 1 hr DRIVE). APPROXIMATELY 4.0 km BEFORE ETON VILLAGE THERE IS A SANDY TRACK HEADING THROUGH THE BUSH TO THE COAST. FROM THE EDGE OF THE GRAVEL ROAD TRAVEL 125° MAG. FOR ABOUT 35 m ALONG THIS TRACK. NOW TRAVEL ON A BEARING OF 163° MAG. FOR ABOUT 60 m WHERE ON YOU SHOULD FIND A SURVEY PLAQUE INSCRIBED " D2 VANUATU" SET IN A CONCRETE BLOCK. TO FIND THE GPS STATION EFAT TRAVEL ON A BEARING OF 114° MAG. FOR 17.84 m. EFAT BEING THE MAIN GPS MARK IS AN ISOLATED STAINLESS STEEL PIN SET IN CORAL. IT IS IN GOOD CONDITION AND ABOUT 30 m FROM THE COAST. A RECENT CYCLONE HAD COVERED THE MARK WITH ABOUT ONE FOOT OF WHITE BEACH SAND.

REFERENCE MARKS (SEE PAGE 8)

APART FROM THE SURVEY PLAQUE (D2) MENTIONED ABOVE THERE ARE 4 OTHER REFERENCE MARKS. EFNC 2 IS A STAINLESS STEEL PIN WITH NEARBY UNAVCO PLAQUE. EFATE II IS AN ISOLATED STEEL PIN, THERE IS ANOTHER ISOLATED STEEL PIN AND FINALLY EFIO IS AN IRON PIPE SET IN CONCRETE. EFIO IS A LOCAL STATION WITH "EFZIOA" INSCRIBED IN THE CONCRETE. THE STEEL PIN, EFNC 2 IS STARTING TO CORRODE AND THE IRON PIPE EFIO IS VERY CORRODED. THE MAG. BEARINGS AND DISTANCES FROM EACH REF. MARK TO THE MAIN MARK EFAT ARE: FROM EFNC 2 (268°, 17.80m), FROM EFATE II (300°, 11.74 m), FROM STEEL PIN (326°, 30.60 m) AND FROM EFIO (332°, 43.70 m).

attach additional sheet if necessary

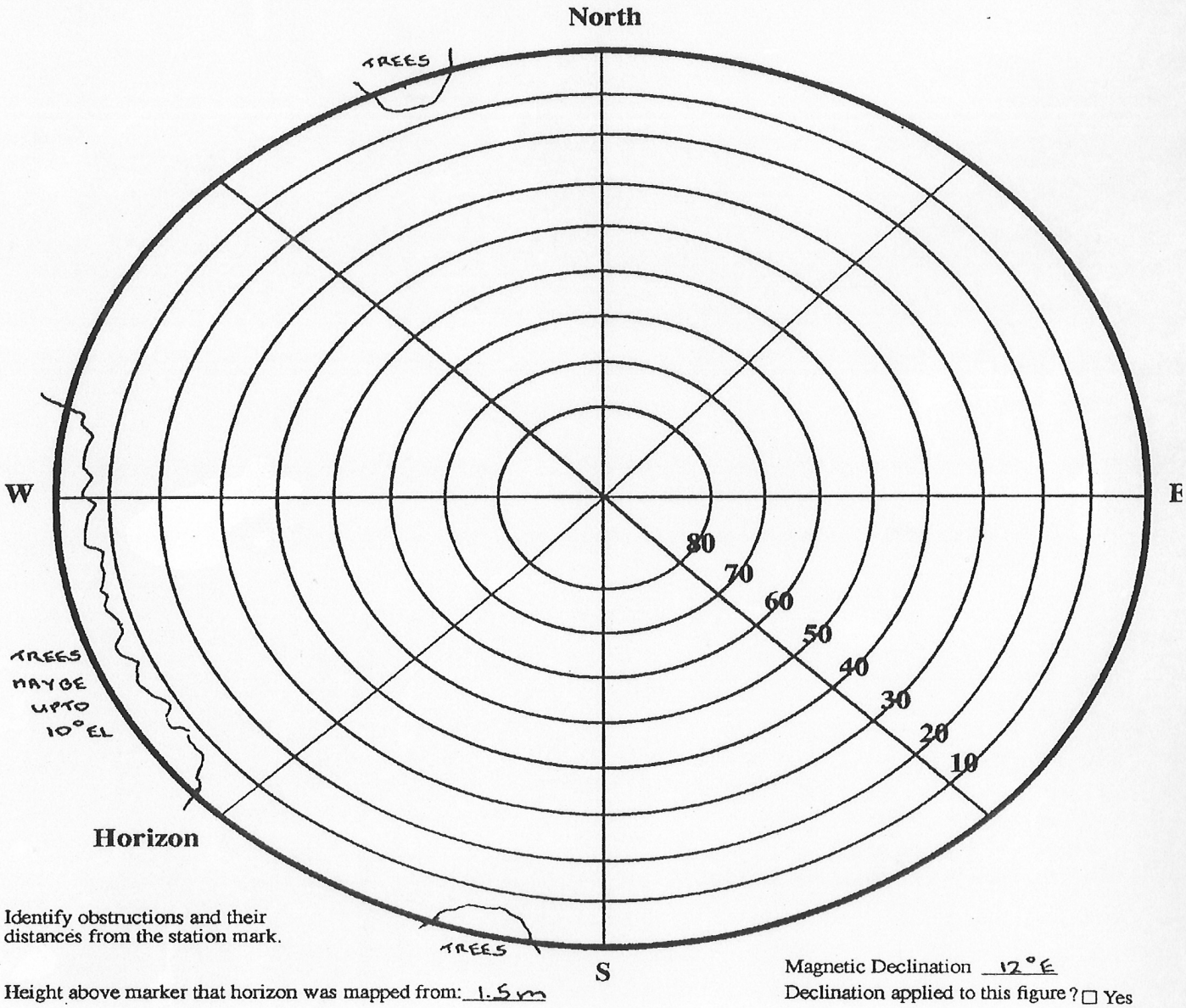
Site Sketch: Sketch the site vicinity. Show all features, landmarks and the relative locations of all markers. Include a North arrow and approximate scale. If no scale please indicate so. Try to use a straight edge if available.



attach additional sheet if necessary

Station: EFATE Date: 5 AUG. 92 PROJECT NAME

GPS Station Horizon Mask



Identify obstructions and their distances from the station mark.

Height above marker that horizon was mapped from: 1.5m

Magnetic Declination 12°E

Declination applied to this figure? ☐ Yes ☑ No

Station Name: EFATE 4-Char ID: EFAT Station ID #: —

Location: EFATE IS., ORY CREEK City: Country: VANUATU

Site Address (if applicable):

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Station Name: EFATE 4-Char ID: EFAT Station ID #: —
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Reported By: DAVID JERICHO Agency: LANDS S.A. Telf: FAX (618) 2264276

Additional sheet if necessary: SEE PAGE 6

GPS STATION : EFAT

ALL STAINLESS STEEL PINS
ARE CEMETED IN CORAL.
ALL BEARINGS ARE MAGNETIC.