

GEORGE BALAZS

TAHITI II

16-26 OCTOBER 1991 SCILLY ^{MOTU} ONE
7-15 DECEMER 1996 TUPAI

G. H. BALAZS

11-26 OCTOBER 1991 TAHITI I - Scilly / MOTU ONE
BORA BORA, "ORAI"

7-15 DECEMBER 1996 TAHITI II BORA BORA / TUPAI

po26 12/15/96 ID 24180

BOORUM & PEASE
B&P

Composition Book • 9¾ in. x 7½ in.

Available As:

Item No.	Sheets	Ruling
09-9130	60	College Ruled & Margin
09-9132	60	College Ruled & Margin & Paged
09-9134	100	College Ruled & Margin

⊗ **ESSELTE**

Esselte Pendaflex Corporation, Garden City, N.Y.
Made in U.S.A. B&P and Boorum & Pease are
Esselte Pendaflex Corporation.

BALAZS
992-A Awaawaanoa Place
Honolulu, Hawaii 96825



42° ideal
sat. elevation

51

TATARATA, MIEI (Madeleine)

Délegation A l'ENVIRONNEMENT

B.P. 4562 Papeete

FAX (689) 419252

Home phone = (689) 582149

(PUNAANUIA)

office " 432409

→ 20th Jan⁹⁶ (18th) TO Tetiaroa (next mission)

pliers + salt packs
TAGS Left with JACKY BRYANT - 12/13/96

BORABORA 102-ET + PLIER

NEED - MEASURING TAPE + LIT. ^{FACT} SHEET

need

ID OF STOMACH CONTENTS FROM 10/91 Scilly,

need - PUKAPUKA

- MANIHI

TAHITI

ALAIN BONNEVILLE - University President
ASPT Walt

7 DEC 96 Depart Hawaiian AIR FL 481 ~ 6 PM TO
SATURDAY PAPERETE 5:15pm flight. Same time as Hawaii.

300 TAGS TO TAHITI NOS. =
+ 2 PIERS.

ARRIVE FAA'A ~ 11:15 PM, Met by
MIRI TATARATA AND HUSBAND Jean-Pascal COURAU
TO Hotel Prince Henri - midnight SIGN!
" 8,000 CFP night Room 311 Coca Cola
(TIN AND)
"IMPORTANCE OF PLACE" roots planted - pulled up
seeking ^{same} soil again. FINALLY!
excellent night's sleep.

8 DEC 96 of 7 AM. Then up at ~ 8 AM Breakfast
Sunday in hotel restaurant - coffee, rolls, scrambled
eggs - juice 1,400 CFP.

Walked waterfront of town. Beautiful
clear day. Reported much rain
yesterday, and earlier in the week.

23/10
11/6/04

16y.o.

Met Jean-Pierre Landret and ^{College} WANTS TO BE A MOWIE
daughter at 11:15 AM

9/2010 =
DAUGHTER
NOW 30,
SON
26

Son 12 years old. He came to Tahiti
as French "Peace Corps" in 1974.
Wife Chinese. Hasn't seen Philippe SIV
in a long time. He officially doesn't
work on turtles any longer. Has
45 at Papeete - capture cleared - some
very large. Part of reason project
was stopped is because ^{in mms} flipped
Bitten away
SOME MFLC
TAIL LEAD

8 Dec. 96 TAHITI

3

Sunday turtles released (and wild-tagged ones)

* → moved away from French Polynesia.

wife recently home from hospital from breast reconstruction surgery. Cancer 2 years ago - breast removed. Daughter wants to be a mid-wife.

Drove to Maeva Beach Hotel - Puna'ia
watched opening of UNW - Buffet lunch and Tahitian dance show - many photos. J.P. now working on fish culture - reef fish restocking (?) Marine shrimp and Macrobrachium all successful.

After lunch ~ 2:30pm we drove next door to Beachcomber Hotel - units on land in lagoon (inside reef). Airport is just to the right. J.P. gave me map of Tufai he made from aerial photo. According to him, neither he nor anyone else has surveyed studied nesting at Tufai. Only a few people there now. Previously many more. Dispute exists over ownership. Back to hotel about 5pm. Walked around more absorbing and enjoying it. Went to McDonald's that had just recently opened. Operated by Australian crew trying locals. 190cpt for large drink, 350cpt for Big Mac. Head of EVAM (was "Savo") wife is head of Meris' Delegation for the Environment. (ORAI vessel)

8 DEC. 96 TAHITI

no longer belongs to EVAM. EVAM and another agricultural agency will merge soon.

From phone book

Teriitua, Rita 25.6 PAEA 53.39.32
Teriitua, Florence 25.8 53.12.82

(OUR HOME 26.5km PAEA)

SIU, Philippe 43.67.88
SCHENCK, EARL (PK 19) PAEA 53.24.21

DIANA - SANTAVE Grandchildren MAOJA HARAY

9 DECEMBER 96 Picked up at hotel by Joel - MONDAY OREMPULLER and YES KELLERMANN. 530am.

TO AIRPORT. Depart AIR TAHITI 620AM for Bora Bora. Miri didn't arrive in time so she took a slightly later flight. Flew right over Moorea - saw Huahine and TAHARA from left side.

LONG

TUPAI CARETAKER FOR 3 YEARS:

CHRISTIAN'S children - life in France with

AITO TEHAHE
VAITAE
ALEA

as "MAILE" in Hawaiian

ARRIVE Bora Bora ~ 7am. Waited for Miri at Vaitape. Went to Chinese store - no more hats w/ pelt. Bought TUPAI book.

Picked up by Mares - Rebyant. Drove to her home. Saw Cookie.

TO northern end of island to boat captain's home - boat anchored shore distance from shore. Mares said she

MAI-I-REI

9 Dec 96
Monday

found other Ofai Houu 70 ft from turtle
stone she showed me - as described

need in EMOXY PUBLICATION. ~~Her's?~~
ANTI Itch Needs

Miri = turtle is family Guardian.

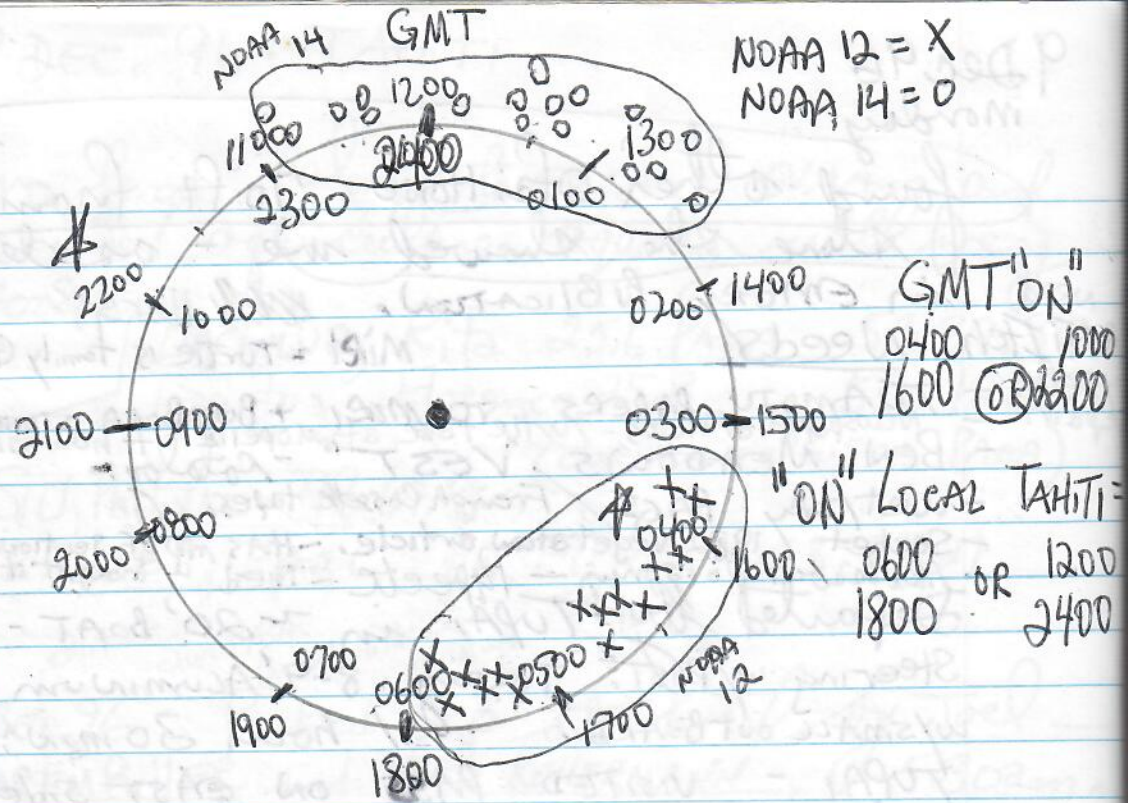
- eyeglass repair. - TUAMOTU PAPERS TO MIRI + BORABORA STONE
- Newspaper articles - Turtle take at Mopeia + hawksbill poisoning
- BEN MEADOWS VEST - Kotoy.
- wet/dry BAGS / French Cassette tapes.
- Sochet / 1982 vegetation article. - HAS MAP OF sectioned properties.
- Hawksbill poisoning - Papeete - Died - thought it was g.t. meat.

Departed by TUAPI in ~20' BOAT - front steering w/post. Towing 8-9' ALUMINUM DINGY w/SMALL OUTBOARD. / hour 30 min. TO TUAPI - VISITED PASS ON EAST side first - not possible to get in + this is a long ways from village - opposite of lagoon. Motored around south point to landing for village by air strip. Cement runway (storm damaged) with small channel [like at MOTU one]. Dangerous motoring small aluminum boat in and out, even.

+ 2 fishermen from Bora Bora visiting

Unloaded all gear ~ 4 boat loads. Met by Christian - island caretaker - used his small boat trailer and bike to transport aluminum boat and all gear to [Eteve's] house. near lagoon. Reported he tried to sell atoll but many family proprietors of motu sections objected and said he could only sell his part.

Many of trees do not have nuts - or only have a few. possibly old trees(?) Village of Houses (TO 15)



ST-10 24180 2hrs/4 off

GEORGE BALAZS 16 151.5 17S 154W 0M DECEMBER 8-14, 1996

TUPAI, FRENCH POLYNESIA

date object beacon rise tca set el geo orbit

GMT

2002
 24180 40FF
 system 174461B
 ST/D
 SAME LOCAL TIME AS HAWAII
 TAHITI = GMT - 10 HOURS

0	Sun 08Dec96	NOAA-14	1707.0000	00:05:17	00:13:06	00:20	57	a-e	9996
	Sun 08Dec96	NOAA-14	1707.0000	01:47:26	01:53:18	01:59	11	a-w	9997
	Sun 08Dec96	NOAA-10	1698.0000	02:46:22	02:53:29	03:00	27	a-e	53136
	Sun 08Dec96	NOAA-12	1698.0000	03:12:43	03:14:55	03:17	1	a-e	28918
	Sun 08Dec96	NOAA-10	1698.0000	04:26:16	04:33:04	04:39	22	a-w	53137
	Sun 08Dec96	NOAA-11	1707.0000	04:39:17	04:46:23	04:53	22	a-e	42301
X	Sun 08Dec96	NOAA-12	1698.0000	04:47:25	04:55:09	05:02	67	a-e	28919
	Sun 08Dec96	NOAA-11	1707.0000	06:19:28	06:26:48	06:34	29	a-w	42302
	Sun 08Dec96	NOAA-12	1698.0000	06:29:18	06:34:34	06:39	8	a-w	28920
0	Sun 08Dec96	NOAA-14	1707.0000	11:19:24	11:26:38	11:33	31	d-e	10003
0	Sun 08Dec96	NOAA-14	1707.0000	13:00:22	13:07:12	13:14	21	d-w	10004
	Sun 08Dec96	NOAA-10	1698.0000	13:55:24	14:01:09	14:06	11	d-e	53143
	Sun 08Dec96	NOAA-10	1698.0000	15:33:06	15:40:32	15:47	49	d-w	53144
	Sun 08Dec96	NOAA-11	1707.0000	15:53:41	15:59:33	16:05	12	d-e	42308
X	Sun 08Dec96	NOAA-12	1698.0000	15:56:27	16:03:31	16:10	30	d-e	28926
	Sun 08Dec96	NOAA-11	1707.0000	17:32:00	17:39:39	17:47	53	d-w	42309
	Sun 08Dec96	NOAA-12	1698.0000	17:36:41	17:43:22	17:50	20	d-w	28927
0	Sun 08Dec96	NOAA-14	1707.0000	23:54:29	00:02:11	00:09	43	a-e	10010

Sun 08Dec96 passes = 18

	Mon 09Dec96	NOAA-14	1707.0000	01:36:01	01:42:29	01:48	15	a-w	10011
	Mon 09Dec96	NOAA-10	1698.0000	02:23:03	02:29:16	02:35	14	a-e	53150
	Mon 09Dec96	NOAA-10	1698.0000	04:01:41	04:09:03	04:16	41	a-w	53151
X	Mon 09Dec96	NOAA-12	1698.0000	04:25:49	04:33:17	04:40	37	a-e	28933
	Mon 09Dec96	NOAA-11	1707.0000	04:27:21	04:33:58	04:40	16	a-e	42315
	Mon 09Dec96	NOAA-12	1698.0000	06:06:29	06:12:55	06:19	16	a-w	28934
	Mon 09Dec96	NOAA-11	1707.0000	06:06:52	06:14:28	06:22	39	a-w	42316
0	Mon 09Dec96	NOAA-14	1707.0000	11:08:47	11:15:47	11:22	23	d-e	10017
0	Mon 09Dec96	NOAA-14	1707.0000	12:49:02	12:56:15	13:03	27	d-w	10018
	Mon 09Dec96	NOAA-10	1698.0000	13:33:21	13:37:16	13:41	4	d-e	53157
	Mon 09Dec96	NOAA-10	1698.0000	15:08:51	15:16:24	15:23	86	d-e	53158
	Mon 09Dec96	NOAA-12	1698.0000	15:35:26	15:41:48	15:48	17	d-e	28940
	Mon 09Dec96	NOAA-11	1707.0000	15:42:14	15:47:17	15:52	8	d-e	42322
	Mon 09Dec96	NOAA-10	1698.0000	16:52:23	16:56:23	17:00	4	d-w	53159
X	Mon 09Dec96	NOAA-12	1698.0000	17:14:15	17:21:28	17:28	35	d-w	28941
	Mon 09Dec96	NOAA-11	1707.0000	17:19:32	17:27:16	17:35	74	d-w	42323
	Mon 09Dec96	NOAA-11	1707.0000	19:05:00	19:08:03	19:11	2	d-w	42324
0	Mon 09Dec96	NOAA-14	1707.0000	23:43:42	23:51:15	23:58	32	a-e	10024

Mon 09Dec96 passes = 18

0	Tue 10Dec96	NOAA-14	1707.0000	01:24:45	01:31:39	01:38	20	a-w	10025
	Tue 10Dec96	NOAA-10	1698.0000	02:00:27	02:05:02	02:09	6	a-e	53164

16 151.5
 GEORGE BALAZS 17 S 154 W 0 M DECEMBER 8-14, 1996

date object beacon rise tca set el geo orbit

X	Tue 10Dec96	NOAA-12	1698.0000	04:04:30	04:11:23	04:18	21	a-e	28947
	Tue 10Dec96	NOAA-11	1707.0000	04:15:35	04:21:32	04:27	11	a-e	42329
	Tue 10Dec96	NOAA-10	1698.0000	05:20:28	05:24:03	05:27	3	a-w	53166
X	Tue 10Dec96	NOAA-12	1698.0000	05:44:04	05:51:13	05:58	28	a-w	28948
	Tue 10Dec96	NOAA-11	1707.0000	05:54:21	06:02:07	06:09	54	a-w	42330
	Tue 10Dec96	NOAA-11	1707.0000	07:40:19	07:41:45	07:43	0	a-w	42331
	Tue 10Dec96	NOAA-14	1707.0000	10:58:20	11:04:57	11:11	18	d-e	10031
	Tue 10Dec96	NOAA-14	1707.0000	12:37:51	12:45:19	12:52	36	d-w	10032
	Tue 10Dec96	NOAA-10	1698.0000	14:44:58	14:52:18	14:59	45	d-e	53172
	Tue 10Dec96	NOAA-12	1698.0000	15:14:55	15:20:08	15:25	9	d-e	28954
	Tue 10Dec96	NOAA-11	1707.0000	15:31:07	15:35:03	15:39	4	d-e	42336
	Tue 10Dec96	NOAA-10	1698.0000	16:26:16	16:32:07	16:37	12	d-w	53173
X	Tue 10Dec96	NOAA-12	1698.0000	16:52:06	16:59:36	17:07	63	d-w	28955
	Tue 10Dec96	NOAA-11	1707.0000	17:07:09	17:14:53	17:22	81	d-e	42337
	Tue 10Dec96	NOAA-12	1698.0000	18:38:46	18:39:50	18:40	0	d-w	28956
	Tue 10Dec96	NOAA-11	1707.0000	18:51:00	18:55:35	19:00	6	d-w	42338
	Tue 10Dec96	NOAA-14	1707.0000	23:33:03	23:40:19	23:47	24	a-e	10038

Tue 10Dec96 passes = 20

	Wed 11Dec96	NOAA-14	1707.0000	01:13:34	01:20:48	01:28	26	a-w	10039
	Wed 11Dec96	NOAA-10	1698.0000	03:13:15	03:20:51	03:28	56	a-e	53179
	Wed 11Dec96	NOAA-12	1698.0000	03:43:34	03:49:28	03:55	11	a-e	28961
	Wed 11Dec96	NOAA-11	1707.0000	04:04:03	04:09:05	04:14	7	a-e	42343
	Wed 11Dec96	NOAA-10	1698.0000	04:54:35	05:00:11	05:05	10	a-w	53180
X	Wed 11Dec96	NOAA-12	1698.0000	05:21:55	05:29:27	05:37	49	a-w	28962
	Wed 11Dec96	NOAA-11	1707.0000	05:41:54	05:49:46	05:57	75	a-w	42344
	Wed 11Dec96	NOAA-11	1707.0000	07:25:49	07:29:33	07:33	3	a-w	42345
	Wed 11Dec96	NOAA-14	1707.0000	10:48:00	10:54:07	11:00	13	d-e	10045
	Wed 11Dec96	NOAA-14	1707.0000	12:26:45	12:34:24	12:42	48	d-w	10046
	Wed 11Dec96	NOAA-10	1698.0000	14:21:24	14:28:16	14:35	24	d-e	53186
	Wed 11Dec96	NOAA-12	1698.0000	14:55:20	14:58:33	15:01	3	d-e	28968
	Wed 11Dec96	NOAA-11	1707.0000	15:20:46	15:22:51	15:24	1	d-e	42350
	Wed 11Dec96	NOAA-10	1698.0000	16:01:01	16:07:54	16:14	24	d-w	53187
X	Wed 11Dec96	NOAA-12	1698.0000	16:30:15	16:37:46	16:45	74	d-e	28969
	Wed 11Dec96	NOAA-11	1707.0000	16:54:52	17:02:31	17:10	59	d-e	42351
	Wed 11Dec96	NOAA-12	1698.0000	18:13:11	18:17:52	18:22	6	d-w	28970
	Wed 11Dec96	NOAA-11	1707.0000	18:37:34	18:43:08	18:48	10	d-w	42352
	Wed 11Dec96	NOAA-14	1707.0000	23:22:30	23:29:22	23:36	18	a-e	10052

Wed 11Dec96 passes = 19

	Thu 12Dec96	NOAA-14	1707.0000	01:02:27	01:09:57	01:17	34	a-w	10053
	Thu 12Dec96	NOAA-10	1698.0000	02:49:29	02:56:41	03:03	29	a-e	53193

GEORGE BALAZS ¹⁶ ^{151.5}
~~17~~ S 154 W 0 M DECEMBER 8-14, 1996

date object beacon rise tca set el geo orbit

	Thu 12Dec96	NOAA-11	1707.0000	03:52:58	03:56:38	04:00	3	a-e	42357
	Thu 12Dec96	NOAA-10	1698.0000	04:29:33	04:36:14	04:42	20	a-w	53194
	Thu 12Dec96	NOAA-12	1698.0000	04:59:55	05:07:40	05:15	87	a-w	28976
	Thu 12Dec96	NOAA-11	1707.0000	05:29:31	05:37:24	05:45	81	a-e	42358
	Thu 12Dec96	NOAA-12	1698.0000	06:42:43	06:46:57	06:51	5	a-w	28977
	Thu 12Dec96	NOAA-11	1707.0000	07:12:23	07:17:19	07:22	7	a-w	42359
	Thu 12Dec96	NOAA-14	1707.0000	10:37:49	10:43:19	10:48	9	d-e	10059
0	Thu 12Dec96	NOAA-14	1707.0000	12:15:43	12:23:29	12:31	64	d-w	10060
	Thu 12Dec96	NOAA-10	1698.0000	13:58:23	14:04:18	14:10	13	d-e	53200
11	Thu 12Dec96	NOAA-14	1707.0000	14:02:32	14:04:26	14:06	1	d-w	10061
	Thu 12Dec96	NOAA-10	1698.0000	15:36:20	15:43:43	15:51	45	d-w	53201
X	Thu 12Dec96	NOAA-12	1698.0000	16:08:38	16:15:59	16:23	41	d-e	28983
	Thu 12Dec96	NOAA-11	1707.0000	16:42:40	16:50:10	16:57	42	d-e	42365
	Thu 12Dec96	NOAA-12	1698.0000	17:49:49	17:55:55	18:02	14	d-w	28984
	Thu 12Dec96	NOAA-11	1707.0000	18:24:25	18:30:42	18:36	14	d-w	42366
	Thu 12Dec96	NOAA-14	1707.0000	23:12:03	23:18:25	23:24	14	a-e	10066

Thu 12Dec96 passes = 19

0	Fri 13Dec96	NOAA-14	1707.0000	00:51:23	00:59:05	01:06	45	a-w	10067
	Fri 13Dec96	NOAA-10	1698.0000	02:26:06	02:32:29	02:38	16	a-e	53207
	Fri 13Dec96	NOAA-10	1698.0000	04:04:54	04:12:14	04:19	37	a-w	53208
X	Fri 13Dec96	NOAA-12	1698.0000	04:38:11	04:45:49	04:53	52	a-e	28990
	Fri 13Dec96	NOAA-11	1707.0000	05:17:12	05:25:00	05:32	58	a-e	42372
	Fri 13Dec96	NOAA-12	1698.0000	06:19:31	06:25:20	06:31	11	a-w	28991
	Fri 13Dec96	NOAA-11	1707.0000	06:59:17	07:05:04	07:10	11	a-w	42373
	Fri 13Dec96	NOAA-14	1707.0000	10:27:50	10:32:31	10:37	6	d-e	10073
	Fri 13Dec96	NOAA-14	1707.0000	12:04:46	12:12:34	12:20	84	d-w	10074
	Fri 13Dec96	NOAA-10	1698.0000	13:36:14	13:40:24	13:44	5	d-e	53214
	Fri 13Dec96	NOAA-14	1707.0000	13:49:36	13:53:27	13:57	4	d-w	10075
	Fri 13Dec96	NOAA-10	1698.0000	15:12:02	15:19:35	15:27	86	d-w	53215
X	Fri 13Dec96	NOAA-12	1698.0000	15:47:24	15:54:14	16:01	24	d-e	28997
	Fri 13Dec96	NOAA-11	1707.0000	16:30:35	16:37:50	16:45	31	d-e	42379
	Fri 13Dec96	NOAA-10	1698.0000	16:56:00	16:59:35	17:03	3	d-w	53216
X	Fri 13Dec96	NOAA-12	1698.0000	17:27:05	17:34:00	17:40	25	d-w	28998
	Fri 13Dec96	NOAA-11	1707.0000	18:11:28	18:18:16	18:25	20	d-w	42380
	Fri 13Dec96	NOAA-14	1707.0000	23:01:44	23:07:27	23:13	10	a-e	10080

Fri 13Dec96 passes = 18

0	Sat 14Dec96	NOAA-14	1707.0000	00:40:22	00:48:12	00:56	60	a-w	10081
	Sat 14Dec96	NOAA-10	1698.0000	02:03:21	02:08:14	02:13	7	a-e	53221
	Sat 14Dec96	NOAA-14	1707.0000	02:25:35	02:28:00	02:30	1	a-w	10082
	Sat 14Dec96	NOAA-10	1698.0000	03:40:33	03:48:10	03:55	71	a-w	53222

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 observer(s): Telonics object(s): all

GEORGE BALAZS ¹⁶ ~~17~~ S ^{151.1} ~~154~~ W 0 M DECEMBER 8-14, 1996

date object beacon rise tca set el geo orbit

Sat 14Dec96	NOAA-11	1707.0000	05:04:54	05:12:37	05:20	42	a-e	42386
Sat 14Dec96	NOAA-10	1698.0000	05:24:03	05:27:12	05:30	2	a-w	53223
X Sat 14Dec96	NOAA-12	1698.0000	05:56:54	06:03:40	06:10	20	a-w	29005
Sat 14Dec96	NOAA-11	1707.0000	06:46:20	06:52:48	06:59	15	a-w	42387
Sat 14Dec96	NOAA-14	1707.0000	10:18:11	10:21:45	10:25	3	d-e	10087
Sat 14Dec96	NOAA-14	1707.0000	11:53:54	12:01:40	12:09	74	d-e	10088
Sat 14Dec96	NOAA-14	1707.0000	13:37:31	13:42:28	13:47	7	d-w	10089
Sat 14Dec96	NOAA-10	1698.0000	14:48:10	14:55:29	15:02	49	d-e	53229
Sat 14Dec96	NOAA-12	1698.0000	15:26:34	15:32:33	15:38	13	d-e	29011
Sat 14Dec96	NOAA-11	1707.0000	16:18:33	16:25:31	16:32	23	d-e	42393
Sat 14Dec96	NOAA-10	1698.0000	16:29:40	16:35:19	16:40	11	d-w	53230
X Sat 14Dec96	NOAA-12	1698.0000	17:04:45	17:12:07	17:19	44	d-w	29012
Sat 14Dec96	NOAA-11	1707.0000	17:58:37	18:05:51	18:13	28	d-w	42394
Sat 14Dec96	NOAA-14	1707.0000	22:51:38	22:56:29	23:01	6	a-e	10094

Sat 14Dec96 passes = 19

☉ 689 419252 DEL ENVIRON 18-11 '96 14:14

Generally, we'll try to identify all the elements who will indicate pollution and threat for the marine turtle.

With these informations, we'll establish a map of the distribution of marine turtles in Tupai with the principal habitats, we'll try to give an estimation of the stock of turtles and nesting activities, identify the principal threat.

This program allow a new element: we'll work with a professional photograph of ORSTOM who will film the behavior of turtles in lagoon and ocean, the nesting sites and all the activities in the sites. He will come with us for all the missions.

If you accept to come with us, it could be interesting to use small radio transmitters attached to turtles.

FRIDAY
13.12.96

Around 10.00 am: departure for Bora Bora in boat.
6.00 pm: departure for Papeete

If you want more informations, you can phone me. I hope that you will come with us. It's very important to make a good survey, and we depend on you.
Sorry for the faults. I hope that you understand my english.

Please, I have to change our flight ticket before the end of this week. (because all the invoices have to be made before the 30 november). So, write me rapidly. Thank you.

Best regards,

M. J. TATARATA

Home phone = 582149

Miri Tatarata
Délégation à l'Environnement
B.P. 4562 Papeete
Fax. 41 92 52
Tél. 43 24 09

Papeete, le 17.11.96

For

George Balazs
NOAA
Fax (808)943-1290

Dear George,

Thank you for your fax. It's possible to change the dates of tagging program if the agency accept to modify the reservations. The new dates could be: 9 december to 13 december, so for you: 8 december to 14 december.

If you accept to come with us

- your flight ticket and your hotel will be paid by us;
- you'll have the guarantee to be in Hawaii for Christmas time; (we have the same preoccupation with our respective families)

So, I give you the schedule of our campaign, but note that it's the first time that we put in place a program to make an inventory of different islands.

Action arenas and priority issues:

Research and monitoring programs will be based on population identification and knowledge of population distribution, size and trends.

Actually, in French Polynesia, the knowledge of population distribution is limited to Scilly atoll. However, we know that there are another islands where we can find turtles.

Population identification, including geographic distribution, habitat utilization and migratory routes, principal habitats are ventral for effective conservation management.

Tagging program in Tupai:

Monday
9th december

6.20 am: departure from Papeete for Bora Bora

7.45 am: arrival to Bora Bora

9.00 am: meeting with borough council of Bora Bora and the population to explain and give information about the necessity to protect and conserve marine turtles (This is very important because we know that poachers come from Bora Bora, and go to Tupai for fishing).

11.00 am: Departure for Tupai by boat

11.30: arrival to Tupai

12.00 am to 2.00 pm: dechargement of the place; contact with the people who lived in Tupai and meal-break

2.00 pm: recognition of the place

10.50 AM, This

10th, 11th, 12th december

Guided tour of Tupai and principal habitats of nesting. Identify and designate critical marine turtle habitat. I have indicated in a map the approximate nesting sites (given by a person who lived in Tupai). You can see that turtles are situated all around the atoll, but most of them come from East coast. So I suggest to divide Tupai in 3 or 4 area (cf map) and observe each part of these area.

For each area, we'll note:

- the geographic situation
- general description of marine environment (fauna & flora)
- general description of land environment (fauna & flora)

For the marine turtle survey, we'll note:

- observation of marine turtles inside and outside the lagoon (in ocean)
- identification of marine turtles
- behavior of marine turtles in lagoon and ocean

In the beach, we'll note:

- tagging and measurement
- marine turtles mark on the beach
- situation of the beaches and the nesting sites

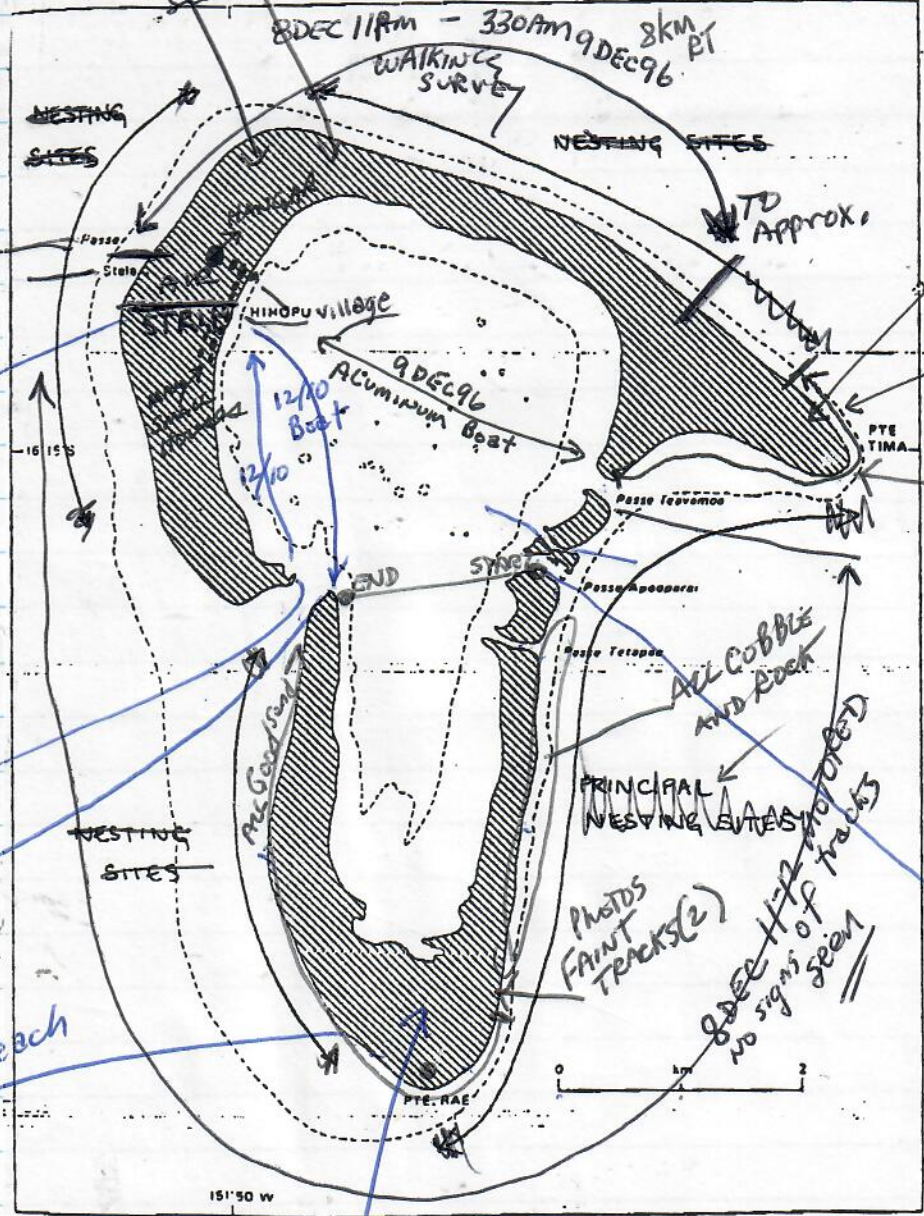
We'll make a survey of the principal nesting sites in the night to observe marine turtles in the beaches.

35 km
TOTAL walking
~ 21 MILES

Another site from last year (Christian) 2 years worked here
Person who drew the map on map for MCF see P. 1
TEIKI PANBRUN
1995-96
Some tourists come

589 419252 DEL. ENVIRON. 18/11 '96 14:40 P01

sorry, I forgot to fax you this map.



12/10/96
walked 9:30 - 11:30 am
4.5 km
Returned by boat
Footprints seen

walked 12/10/96
4-6 pm
8 km RT
Small sand
all good nesting beach

6 km to
12/9
40
No
big
seen
Four
or
walked
12/9
2-5
cobble
Rock

ALL COBBLE AND ROCK
PRINCIPAL NESTING SITES
PHOTOS FAINT TRACKS (2)
8 DEC 11 AM
NO SIGNS OF TRACKS

12/10/96
STAR
walked
south
all the
way
around
point
8.5

Fig. 2. L'atoll de Tupai FROM: MIRI FAX: 41 92 52

noted 12/10/96
lots of PSALITA
Pandanus, Messerschmidia,
and some nesting birds
Bobbies & Frigates

ID 24180
2 Hours on
4 hours off
12-noon on
12/10/96 wed.
OFF 12/11
12 PM

```
*****
**** Programming setup for ST-10 surface time monitoring ****
*****
ARGOS identification code -----> 24179 24180
Interval between ARGOS transmissions in seconds (40-255)----> 45
Enter number of days in season 1 -----> 255
Enter number of days in season 2 -----> 0
Enter number of days in season 3 -----> 0
Enter number of days in season 4 -----> 0
*****
* The ST-10 provides on/off control of the RF transmitter. Each *
* of the four seasons consists of four cycles. Each cycle pro- *
* vides for one "on" period and one "off" period of 0-255 hours *
* each. The following query lines are for season 1, cycles 1-4 *
*****
Enter # of hours xmittr is enabled in cycle 1, season 1----> 2
Enter # of hours xmittr is disabled in cycle 1, season 1----> 4
Enter # of hours xmittr is enabled in cycle 2, season 1----> 0
Enter # of hours xmittr is disabled in cycle 2, season 1----> 0
Enter # of hours xmittr is enabled in cycle 3, season 1----> 0
Enter # of hours xmittr is disabled in cycle 3, season 1----> 0
Enter # of hours xmittr is enabled in cycle 4, season 1----> 0
Enter # of hours xmittr is disabled in cycle 4, season 1----> 0
*****
```

ARGOS 1092
LUS

Mr. Yves KELLERMANN → Vietnamese wife girlfriend
name mode "Chinese" Recently married
Po Box 2465 Papeete TAHITI
98712 FRENCH POLYNESIA

need

NATURE PHOTOGRAPHER OW
JOEL OREMPULLER

Italian

need

Po Box: 529 PAPEETE TAHITI P.F.
-FAX: 689. 43. 49. 35 DOM
" 689. 43. 98. 87 OFFICE
EMAIL: OREMP@TAHITI.RIO.NET

24180 Date : 11.12.96 23:28:18 LC : 0 IQ : 50
Lat1 : 16.242S Lon1 : 151.873W -
5764 5764

24180 Date : 12.12.96 05:11:25 LC : Z IQ : 00
Lat1 : ???????? Lon1 : ?????????
25780 25780

24180 Date : 12.12.96 23:14:28 LC : (1) IQ : 60
Lat1 : 16.249S Lon1 : 151.804W
23768 23768

2 DAUGHTERS -
WIFE IS Swedish
Sorbillion
Christine

TJPAI

s'il te plaît

Maire: the name of Jacky Bryant wife

Ma-i - CAE "

(MAIAE)

B.P. 154

Bora Bora

10/16/91 J.F. stomach contents ID Sully
garbage pile - MICRODICTYON japonicum 5
Caulerpa serrulata 2
Turbinaria ornata 25

9 December 96

MONDAY

TUPAI 15

TUPAI

nearby to the South. Discussions of treasure, and "Tupaians." Miki, Vohine. See color booklet at Tupai. Slept for awhile, then at 11 PM all 5 of us + dog, walked 2 hours to north and east. And ~ 2 hours return. Beach has gravel coarse areas, but also areas of fine sand, seemingly well suited for nesting. No tracks seen. None. Christian showed us excavated area from Nov. 95 - and faint sign of remaining tracks. He said eggs were laid here. Later he also showed us another site from 1995, note - two people have told us that no turtles nest on atoll. Because they get caught by fishermen in the sea. (copulating) before they can make it ashore (to nest).

10 December 96

TUES. TUPAI

up ~ 9 AM. Bucket shower on water cistern roof. Breakfast/lunch photos. "doche"

~ 1 PM Small inflatable + aluminum - propped over to pass directly across from houses. Warm water. Temperature = 31°C

Shallow except for area in center said to be 4m maximum.

Miki Miki Tree

Four of us Joel Yves, Miki & me walked beach out and around "Tima Point" - This strange projection of the atoll seems to be most thickly vegetated. Miki Miki Tree,

16 DEC 96 TUES.

TUPAI

KATHIA TREE TATHINUS (*Messerschmidia*). CoCo w/pots, End of point has dense cobble - same piled up very from stony. Looking at Bora Bora from end of point. Continued around - noted tracks in cobble from vehicle. In fire sand against vegetation noted (abv a 50m area) 4 excavated areas - not from this year. Presumably 1995, returned by same route. Noted dead fish and a large dead eel. Rain squall just as we got back to boat. Noted two fishermen in channel w/net - ~20' boat anchored inside. Many fishermen from Bora Bora come to Tupai.

Returned to house (camp) ~ 6 PM near sunset. Walked to abandoned village houses just to south. Boats in front including a nice fiberglass one (previously used for tourists?). Juvenile hawksbill turtle ~~carapace~~ found.

Didn't walk anywhere this night. Too tired.

17 DEC 96 WED - 7 AM "Douche" on roof
Wednesday Breakfast. AT ~ 9:30 AM we (4) walked to the south to Pass ~ 1:45 PM. Light wind ^{photo} very hot. Mini saw small shark next to shore. Some areas of fine sand along here. Foot prints of ~~land truck trucks~~ (age unknown). Arrived at pass about 11:30 AM - opened green coconuts to drink and eat.

Need
to DEC

<http://www.biop7.jussieu.fr/dnp/anglais/dnp.htm> 17

Wednesday
10 DEC. 96

French marine turtle sewer,

Christian brought both boats to pass inside lagoon and we returned in them.

Drifts of TURBINARIA inside lagoon, my ^{contobita} + TURBO,
"TUPA crab" (land crab).

Needs

- More "off" (strongest)
- Machete
- Baby wifes
- Mosquito net

Eii
for genetics
→

5 fishermen from Borakara at Sandy Pt in lagoon S. end. Gill net ^{light} deployed.

Carapace CCL of 50 cm humbshell in village house scrapped for dried tissue.

Bed ~ 11 PM.

12 Dec. 96 up ~ 730am.

LEO
Hotel Resort

Thursday Breakfast discussions about Mr. Moreau's ^{turtle} operation. Gives gas or money to fishermen who give him turtles for his "Park". Hotel tourists pay to tag and release.

need

do not give any more tags. Contact Sue re: same. Let tags run out. Don't say anything to him, or he will be upset w/ Miki, for gov. agencies. Note that law says he can keep 10 turtles and they should be tagged in his park.

12 DEC 96 His "10" aren't tagged - only tagged when THURSDAY each ~~are~~ released by tourists \$US100 each.

French Polynesia

Hawkbill poisoning

- (1) - 1991 meat sold in Papeete as green but was hawkbill - Mike will verify
- (2) Man from Borabora - fishes TUPAI, told boat built in Chid to Colit. to Hawaii to Borabora where it's used for charter. He has a captain's license for F. Polynesia. Takalolo + Grandmother got sick from eating hawkbill - Borabora. Several other people died.

TE POE
The Pearl

not very believable

Christy report 100 males + females taken at Tupai this year for Papeete (Borabora?) market. Start in July. After that in December not enough for fishermen to get.

meat

500 kg in Boat, Moeupititou Aia
500 kg Mopelia distributed to people

ARTICLES IN EUROPEAN MAGAZINES (NEED)

Sept or Oct. 96
500kg from boat burned by Gendarmerie

Miri ^{need} Genetics paper. Bowen

TETIAEOA
Brandon

① Workshop Fiji/Tahiti ^{still a good idea}

② Action Plan for Tahiti F.P.

WASA
said to
be last
cyclone
1991 Dec.

Rick Thorne } need address
Asake

ABOVE

Miri write to ask for cooperation
Environment

Tell
Sve Mallett

Chief → ANNIE SAVOIE - AUBANEL
HUSBAND & WIFE
Chief EVAA LOUIS SAVOIE

If Ministers - can be dismissed at any time.
Minister environment = KARL MEVET

GASTON FROSS President 5 year elected 3/96

GASTON copies "TON-SON" - Mayor of BORABORA

- 10-15 French Strategies to Miri
- Symposium proceeding.

Wes = " TE ARATAI " Carge Landing Craft 1994
Platter size 50 turtles to Sally to Release w/SW & Condret.
400 people (whole population) from Maupiti
to Mafelia (to visit?).

12/12/96 10:30AM Depart for Motu Pass
Thurs. Walked entire South end. Rock, beach
rock, cobble in front of motu. Had
to walk barefoot across shallow pass
reef edge close to shore. Piles of cobble
must be from huge storms hitting this side.

NAME "Dick" - male dog + 3 cats
 + female dog + 1 Blk & white kitten
 + PUPPY ♀ kitten Pacific

MR CHRISTIAN TEHAHE
 POSTE RESTANTE
 BORA BORA

- "HONU" T-shirt

- Medicine that hasn't expired,
 - cut salve and bandages

WOUND MOSQUITO NET

Question - Why don't mosquitos die out
 if they don't have a blood meal

TUPAI Copra workers left after "wasa" Dec. 91.
 Tupai Hurricane

Miri's "Sardine Can" bateau

(LAST YEAR)
 12/12/96 Saw 2 faint tracks over coarse coral
 Thvrsi and beach rock in direction of sard
 patches. From here south, and
 all along west side, nice sard
 suitable for nesting.

Report by Miri from fisherman that
 small yellowbill was kept in pen
 in front of village by Christian and
 that he killed it but didn't eat it.

Bonjour Nancy,

12.12.96

La tortue qui a été l'emblème des ¹⁰⁰ Jeux du Pacifique en Polynésie française représente une tortue marine. Elle se prénomme "Tifai": c'est le nom qu'utilise certains Paumotu pour désigner les tortues marines. ~~Elle a été choisie~~ Elle a été choisie car la tortue représente un des éléments principaux du patrimoine culturel de la Polynésie. Autrefois, les tortues étaient pêchées pendant des périodes précises, dans des conditions particulières. Ceux qui les pêchaient en dehors des périodes autorisées étaient condamnés à mort. On raconte ^{même} que les premiers polynésiens ont été guidés par une tortue marine jusqu'en Polynésie. Voilà pour la petite histoire de Tifai.

Mézi.

12/13/96 UP 630am. AT 8am started
 FRIDAY loading and transporting boat
 and all gear on boat trailer
 with bicycle attached. 6764?
 Two trips. Red Boat # 6467
 arrived ~ 10 AM. Depart 11 AM
 Arrive Bourbon ~ noon.

Lunch at Jacky Bryant's.
 He said (1) 3 turtles ^{said} taken at TUFA
 while we were there, eaten/sold
 on Bourbon. Unknown if they were
 large or small. (2) Hotel in lagoon
 has 4 turtles in captivity.

12/14 JA
 Telephone
 Miri and
 he had
 a turtle
 for

Backnote:

Mr. Moore - TAAAA.

Depart ^{BORABORA} Air Tahiti ^{TUFAHI} 6 PM - 40 min flight
 nearly dark at arrival. Joel's family gave me
 a ride to Prince Hinoi Hotel. Km 31 lagoon
 #24180

14 DEC 96 UP ~ 6 AM TO TURN ON TRANSMITTER
 SATURDAY then up 7 AM.

- need - email TO NECA about MTSB member
 for Miri. Send her a letter
- Project proposal to STREP -
 - Supplement missions?
 - Education - coloring books?
 - Move of other color booklets
- Tape in my Sym. Report; - Travel to Hawaii? Symposium
- French Cassette tapes
- write 1-2 page Summary of trip.

14 Dec 96 Rented Avis Car and met Miri & Sat. ^{8AM} Jean-LASCAL (3 kids (♀ Helene) at 14km PUNAWA - TAMANU store. Drove up to their home - high elevation (photo). to get tags. ^{VIA BEA} Drove to Taravao to aquaculture facility and met Jean-Pierre Landret, ^{11:36 AM} Turtle in cement tanks, drained. one was selected. ♀ for # 24180 deployment - release. Miri obtained permission of EVAAM chief this morning.

We weighed Her = 72 Kg
Source = Mofelia eggs - 1989

CCL =

EXISTING = S-952 RFL
S-701 LFL

newly applied:
L-827 LH
S-782 RH

Second central reasonably flat. Hump present on first central that may protect transmitter from damage.

MESSAGE ON CARD PLACED UNDER FIBERGLASS

14 DEC. 96 "RELACHEZ-MOI
ET TELEPHONEZ
A MIRI AU:
432 409
D'ENVIRONNEMENT
TAHITI"

Print
film only
Photos

Release near facility 2:38 PM
SWAMP STRAIGHT OUT through small channel.

Collected small skin snip in salt from
 ~ 38 greens in tanks. Jean-Pierre will fix data

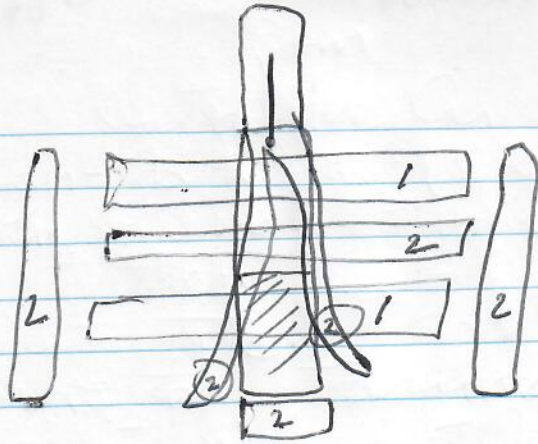
14 DEC. 96 Drove back to PAA in rental car.
 SAT. Located Diana Teritua after several checks
 in neighboring houses. Saw new house
 under construction on ocean-side property
 photo of Diana.

* - Promised to send photos of Tave 1964.
 Drank orange drink at Chez Marie ^{Chinese} _{STO}
 Drove back to Papeete & Marathon
 race underway - ocean street Harbor
 front closed.
 Had dinner at Beachcomber Hotel
 8 PM - ~ 10:45 PM (\$50!). Drove back
 to hotel, checked out, drove to Faa'a
 Airport, returned Avis rental car.
 Depart Hawaiian Air ~ 1 AM 12/15
 Arrived ~ 7 AM Honolulu.

✓ need - Pick Thorpe cc Sue Miller ^{Air} _{Fly Plan} to Miri +
 + Church info packet (to me & me) ADDRESS

- HONS T-shirt
- OCT/NOV 97 Tide calendars Scilly Mopelia
- PAPEETE BANK PAPERS
- Small steel cans - Fiberglass Hawaii
- ✓ - FedEx ST14's TO ~~Wahana~~ TAHITI
- ✓ - EMAIL Duffey + Miei phone numbers
- new tent
- EWC Lodging for Miri / dehydrated foods
- F.P. postage stamps
- ✓ - Photos TO DIANA
- Dehydrated food
- More Rice committed

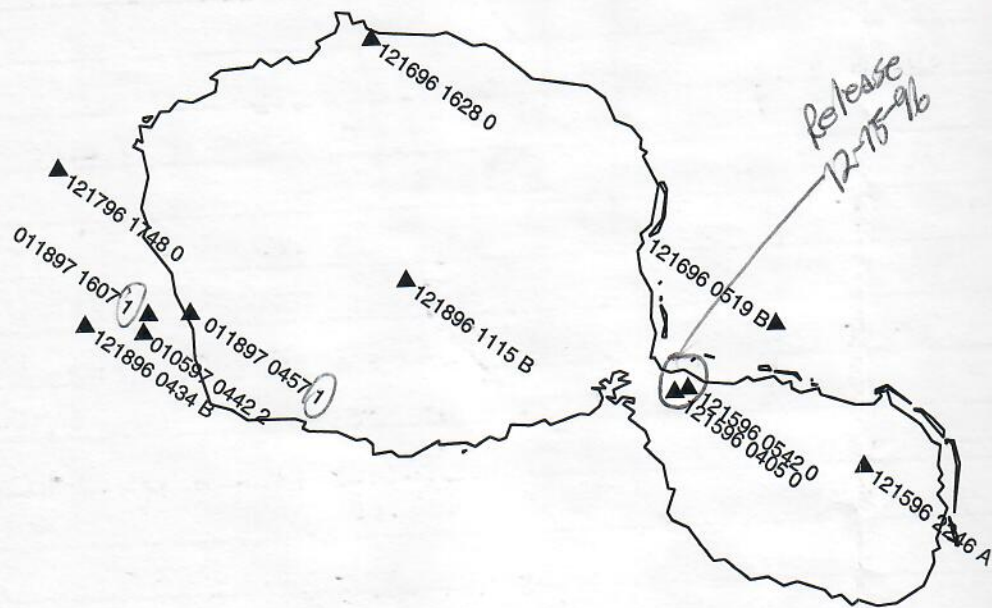
spray
 INSECTICIDE
 Mosquito Repell



NO ELASTOMER, TWO RESIN & CLOTH COATS, THEN RESIN ONLY.

17° 30'S

18° 00'S



24180

Released GMT= 0038h
12/15/96

27

24180 Date : 14.12.96 17:07:33 LC : Z IQ : 10
Lat1 : 15.305S Lon1 : 152.856W Lat2 : 12.104S Lon2 : 167.219W
3828 3828

24180 Date : 15.12.96 04:04:52 LC : 0 IQ : 40
Lat1 : 12.872S Lon1 : 126.957W Lat2 : 17.743S Lon2 : 149.276W
30194 30194

24180 Date : 15.12.96 05:41:51 LC : 0 IQ : 50
Lat1 : 17.741S Lon1 : 149.268W
30261 30261

24180 Date : 15.12.96 11:51:01 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
30555 30555

24180 Date : 15.12.96 16:54:05 LC : 0 IQ : 58
Lat1 : 17.575S Lon1 : 148.655W
30848 30848

24180 Date : 15.12.96 22:46:27 LC : A IQ : 00
Lat1 : 17.793S Lon1 : 149.160W
31107 31107

24180 Date : 16.12.96 05:18:41 LC : B IQ : 00
Lat1 : 17.701S Lon1 : 149.213W
31354 29306

24180 Date : 16.12.96 16:28:05 LC : 0 IQ : 50
Lat1 : 17.511S Lon1 : 149.459W Lat2 : 17.303S Lon2 : 150.403W
31988 31988

24180 Date : 17.12.96 16:11:06 LC : B IQ : 00
Lat1 : 18.229S Lon1 : 148.874W
33190 33190

24180 Date : 17.12.96 17:48:14 LC : 0 IQ : 50
Lat1 : 17.589S Lon1 : 149.653W
33238 33238

24180 Date : 17.12.96 23:58:18 LC : B IQ : 00
Lat1 : 17.154S Lon1 : 151.122W
33660 33628

24180 Date : 18.12.96 04:34:03 LC : B IQ : 00
Lat1 : 17.690S Lon1 : 149.638W
33775 33775

24180 Date : 18.12.96 11:14:40 LC : B IQ : 00
Lat1 : 17.667S Lon1 : 149.440W
34174 34174

Johns
Tohit Local Time

~~24180~~
~~George~~

Duplicate

24180 Date : 18.12.96 11:14:40 LC : B IQ : 00
 Lat1 : 17.667S Lon1 : 149.440W
 34174 34174

Date: Fri, 27 Dec 1996 15:13:53 GMT
 From: useroffice@argosinc.com
 To: gbalazs@honlab.nmfs.hawaii.edu
 Subject: Re: My ppt 24180 in Program 1092

Hi George!

I checked on ID 24180 and it appears to have just stopped transmitting. Everything looked pretty good on it (frequency, number of messages, signal strength) through the last transmission on the 18th.

I'm sorry I couldn't give you better news.

Enjoy the rest of your holiday!

Lisa

Moea et Yves KELLERMAN
 Boite postale 2465
 98713 Papeete-Tahiti



24180 Date : 05.01.97 04:42:04 LC : 2 IQ : 60
Lat1 : 17.696S Lon1 : 149.602W Lat2 : 17.114S Lon2 : 146.928W
49718 49718

24180 Date : 07.01.97 16:45:11 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
55960 64152

24180 Date : 16.01.97 16:50:49 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
37403 37403

24180 Date : 17.01.97 05:18:38 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
15683 15683

24180 Date : 17.01.97 16:29:51 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
55011 55011

24180 Date : 18.01.97 04:56:54 LC : 1 IQ : 50
Lat1 : 17.684S Lon1 : 149.573W Lat2 : 18.835S Lon2 : 154.834W
33467 33467

24180 Date : 18.01.97 16:07:00 LC : 1 IQ : 58
Lat1 : 17.684S Lon1 : 149.599W Lat2 : 19.600S Lon2 : 140.887W
7215 7215

24180 Date : 18.01.97 17:48:45 LC : Z IQ : 00
Lat1 : ??????? Lon1 : ???????
12935 12935

24180 Date : 22.01.97 11:38:50 LC : 1 IQ : 50
Lat1 : 17.690S Lon1 : 149.594W Lat2 : 19.371S Lon2 : 142.185W
5263 5263

24180 Date : 22.01.97 16:21:23 LC : B IQ : 00
Lat1 : 17.399S Lon1 : 150.418W Lat2 : 18.343S Lon2 : 146.330W
21735 21735

24180 Date : 23.01.97 04:46:50 LC : 0 IQ : 50
Lat1 : 17.887S Lon1 : 150.516W Lat2 : 17.683S Lon2 : 149.589W
40705 40705

24180 Date : 22.01.97 05:10:40 LC : Z IQ : 00
 Lat1 : ??????? Lon1 : ??????? -
 48954 48954

24180 Date : 25.03.97 12:04:46 LC : Z IQ : 00
 Lat1 : ??????? Lon1 : ??????? Lat2 : ??????? Lon2 : ???????
 Nb mes : 002 Nb mes>-120dB : 000 Best level : -136 dB
 Pass duration : 045s NOPC : 0
 Calcul freq : 401 650000.0 Hz Altitude : 0 m
 58807 58807

24180 Date : 26.03.97 11:54:16 LC : Z IQ : 00
 Lat1 : ??????? Lon1 : ??????? Lat2 : ??????? Lon2 : ???????
 Nb mes : 001 Nb mes>-120dB : 000 Best level : -135 dB
 Pass duration : ? s NOPC : ?
 Calcul freq : 401 650000.0 Hz Altitude : 0 m
 11952 11504

24180 Date : 27.03.97 11:43:03 LC : Z IQ : 00
 Lat1 : ??????? Lon1 : ??????? Lat2 : ??????? Lon2 : ???????
 Nb mes : 001 Nb mes>-120dB : 000 Best level : -136 dB
 Pass duration : ? s NOPC : ?
 Calcul freq : 401 650000.0 Hz Altitude : 0 m
 29674 29674

24180 Date : 04.04.97 11:56:29 LC : Z IQ : 00
 Lat1 : ??????? Lon1 : ??????? Lat2 : ??????? Lon2 : ???????
 Nb mes : 002 Nb mes>-120dB : 000 Best level : -133 dB
 Pass duration : 045s NOPC : 0

Calcul freq : 401 650000.0 Hz Altitude : 0 m
 50027 50027

24180 Date : 04.04.97 11:56:29 LC : Z IQ : 00
 Lat1 : ??????? Lon1 : ??????? Lat2 : ??????? Lon2 : ???????
 Nb mes : 002 Nb mes>-120dB : 000 Best level : -133 dB
 Pass duration : 045s NOPC : 0
 Calcul freq : 401 650000.0 Hz Altitude : 0 m
 50027 50027

24180 Date : 05.04.97 11:47:06 LC : Z IQ : 00
 Lat1 : ??????? Lon1 : ??????? Lat2 : ??????? Lon2 : ???????
 Nb mes : 002 Nb mes>-120dB : 000 Best level : -134 dB
 Pass duration : 135s NOPC : 0
 Calcul freq : 401 650000.0 Hz Altitude : 0 m
 2691 2691

24180 Date : 05.04.97 11:47:06 LC : Z IQ : 00
 Lat1 : ??????? Lon1 : ??????? -
 2691 2691

24180 Date : 13.04.97 11:57:32 LC : A IQ : 60
 Lat1 : 17.725S Lon1 : 149.434W Lat2 : 17.703S Lon2 : 149.530W
 Nb mes : 003 Nb mes>-120dB : 000 Best level : -132 dB
 Pass duration : 090s NOPC : 0
 Calcul freq : 401 650342.5 Hz Altitude : 0 m
 23036 23036

24180 Date : 13.04.97 11:57:32 LC : A IQ : 60
 Lat1 : 17.725S Lon1 : 149.434W Lat2 : 17.703S Lon2 : 149.530W
 23036 23036

24180 Date : 14.04.97 11:47:50 LC : Z IQ : 00
 Lat1 : ???????? Lon1 : ????????
 41260 41260

24180 Date : 14.04.97 11:47:50 LC : Z IQ : 00
 Lat1 : ???????? Lon1 : ????????

24180 Date : 15.04.97 04:54:55 LC : Z IQ : 00
 Lat1 : ???????? Lon1 : ????????

24180 Date : 06.06.97 05:55:22 LC : Z IQ : 00
 Lat1 : ???????? Lon1 : ???????? Lat2 : ???????? Lon2 : ????????
 Nb mes : 002 Nb mes>-120dB : 000 Best level : -136 dB
 Pass duration : 270s NOPC : 0
 Calcul freq : 401 650000.0 Hz Altitude : 0 m
 60661 60629

24180 Date : 06.06.97 17:04:19 LC : Z IQ : 00
 Lat1 : ???????? Lon1 : ???????? Lat2 : ???????? Lon2 : ????????
 Nb mes : 001 Nb mes>-120dB : 000 Best level : -135 dB
 Pass duration : ? s NOPC : ?
 Calcul freq : 401 650000.0 Hz Altitude : 0 m
 34585 34585



Give
Tahiti
Book

7 May 1996

Philippe
Sue's
address
→

Philippe SIU
TAHITI
BLUE LAGOON
CONSULTANT SERVICE

B.P. 134 Avatoru - Rangiroa
B.P. 6845 Faaa - Tahiti
Tél. & Fax. (689) 42 73 10
No Tahiti : 12 07 58 - R.C. 23 457 A

Dear Georges,

I received your papers and photo - thank you. It was a pleasure to meet you at the meeting in Fiji, and I hope that we could work together in Apia.


Best regards.

Miri.


Please, tell me if you are agree to come to Tahiti at the end of this year. We have money to pay your trip -



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ARCHEOLOGICAL AND BOTANICAL EXCURSIONS



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Honu Iti

Octobre 1997 systeme horaire: UT-10.0 16 35 S 154 45 W

mer 1	BM	4h55	0,08m	PM	11h11	0,08m	BM	17h11	0,07m	PM	23h06	0,08
jeu 2	BM	5h18	0,09m	PM	11h31	0,08m	BM	17h28	0,07m	PM	23h26	0,09
ven 3	BM	5h40	0,10m	PM	11h51	0,09m	BM	17h46	0,08m	PM	23h46	0,10
sam 4	BM	6h03	0,11m	PM	12h11	0,09m	BM	18h04	0,09m			
dim 5	PM	0h10	0,12m	BM	6h26	0,12m	PM	12h32	0,09m	BM	18h23	0,10
lun 6	PM	0h31	0,12m	BM	6h49	0,12m	PM	12h52	0,09m	BM	18h43	0,10
mar 7	PM	0h54	0,12m	BM	7h13	0,11m	PM	13h11	0,08m	BM	19h02	0,10
mer 8	PM	1h17	0,12m	BM	7h36	0,10m	PM	13h30	0,08m	BM	19h23	0,10
jeu 9	PM	1h43	0,11m	BM	8h00	0,09m	PM	13h50	0,07m	BM	19h48	0,09
ven 10	PM	2h13	0,10m	BM	8h28	0,07m	PM	14h16	0,06m	BM	20h21	0,08
sam 11	PM	2h53	0,08m	BM	9h07	0,05m	PM	14h52	0,05m	BM	21h09	0,06
dim 12	PM	3h57	0,06m	BM	10h13	0,03m	PM	16h01	0,03m	BM	22h45	0,05
lun 13	PM	6h11	0,04m	BM	12h44	0,02m	PM	18h43	0,03m			
mar 14	BM	1h36	0,05m	PM	8h28	0,05m	BM	14h39	0,04m	PM	20h37	0,06
mer 15	BM	3h08	0,09m	PM	9h36	0,08m	BM	15h38	0,07m	PM	21h40	0,09
jeu 16	BM	4h05	0,12m	PM	10h25	0,11m	BM	16h24	0,10m	PM	22h29	0,11
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sam 18	BM	5h37	0,16m	PM	11h47	0,13m	BM	17h43	0,13m	PM	23h53	0,11
dim 19	BM	6h17	0,16m	PM	12h24	0,12m	BM	18h19	0,13m			
lun 20	PM	0h33	0,16m	BM	6h54	0,14m	PM	12h58	0,11m	BM	18h53	0,11
mar 21	PM	1h08	0,14m	BM	7h29	0,12m	PM	13h29	0,09m	BM	19h24	0,11
mer 22	PM	1h41	0,12m	BM	8h01	0,10m	PM	13h57	0,07m	BM	19h53	0,09
jeu 23	PM	2h13	0,10m	BM	8h31	0,07m	PM	14h22	0,06m	BM	20h21	0,07
ven 24	PM	2h45	0,07m	BM	9h01	0,05m	PM	14h47	0,04m	BM	20h50	0,05
sam 25	PM	3h22	0,05m	BM	9h34	0,02m	PM	15h12	0,02m	BM	21h27	0,04
dim 26	PM	4h26	0,02m	BM	10h58	0,00m	PM	16h04	0,00m			
lun 27	BM	1h01	0,01m	PM	9h08	0,02m	BM	15h36	0,01m	PM	21h10	0,01
mar 28	BM	3h27	0,03m	PM	9h59	0,04m	BM	16h01	0,03m	PM	21h47	0,01
mer 29	BM	4h04	0,05m	PM	10h25	0,05m	BM	16h20	0,04m	PM	22h12	0,01
jeu 30	BM	4h30	0,07m	PM	10h46	0,06m	BM	16h37	0,05m	PM	22h33	0,01
ven 31	BM	4h52	0,09m	PM	11h05	0,07m	BM	16h54	0,06m	PM	22h54	0,01

Novembre 1997 systeme horaire: UT-10.0 16 35 S 154 45 W

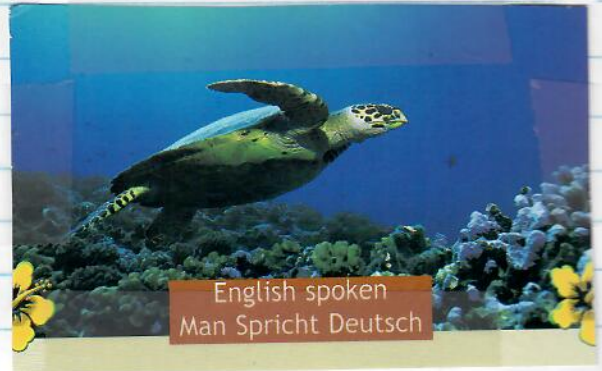
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lun 3	BM	6h02	0,12m	PM	12h06	0,09m	BM	17h55	0,10m			
mar 4	PM	0h09	0,13m	BM	6h28	0,12m	PM	12h28	0,09m	BM	18h19	0,11
mer 5	PM	0h34	0,13m	BM	6h54	0,11m	PM	12h51	0,08m	BM	18h45	0,11
jeu 6	PM	1h03	0,12m	BM	7h21	0,10m	PM	13h15	0,08m	BM	19h13	0,11
ven 7	PM	1h35	0,11m	BM	7h50	0,09m	PM	13h42	0,07m	BM	19h46	0,11
sam 8	PM	2h11	0,10m	BM	8h23	0,07m	PM	14h15	0,07m	BM	20h27	0,09
dim 9	PM	2h56	0,08m	BM	9h05	0,05m	PM	15h01	0,06m	BM	21h25	0,07
lun 10	PM	4h04	0,05m	BM	10h11	0,03m	PM	16h16	0,05m	BM	23h03	0,05
mar 11	PM	5h58	0,04m	BM	12h04	0,03m	PM	18h19	0,05m			
mer 12	BM	1h19	0,06m	PM	7h59	0,05m	BM	13h55	0,04m	PM	20h05	0,07
jeu 13	BM	2h48	0,09m	PM	9h13	0,07m	BM	15h05	0,06m	PM	21h15	0,11
ven 14	BM	3h50	0,11m	PM	10h06	0,09m	BM	15h58	0,08m	PM	22h09	0,11
sam 15	BM	4h39	0,13m	PM	10h51	0,10m	BM	16h43	0,10m	PM	22h56	0,11
dim 16	BM	5h24	0,14m	PM	11h31	0,10m	BM	17h24	0,11m	PM	23h38	0,11
lun 17	BM	6h04	0,14m	PM	12h08	0,10m	BM	18h02	0,12m			
mar 18	PM	0h18	0,14m	BM	6h41	0,13m	PM	12h42	0,10m	BM	18h37	0,11
mer 19	PM	0h54	0,13m	BM	7h14	0,11m	PM	13h12	0,09m	BM	19h09	0,11

jeu 20	PM	1h27	0,12m	BM	7h44	0,09m	PM	13h40	0,08m	BM	19h39	0,09m
ven 21	PM	1h58	0,10m	BM	8h12	0,07m	PM	14h07	0,06m	BM	20h10	0,08m
sam 22	PM	2h30	0,07m	BM	8h39	0,06m	PM	14h34	0,05m	BM	20h43	0,06m
dim 23	PM	3h03	0,05m	BM	9h08	0,04m	PM	15h05	0,04m	BM	21h23	0,04m
lun 24	PM	3h47	0,03m	BM	9h44	0,02m	PM	15h48	0,02m	BM	22h36	0,02m
mar 25	PM	5h31	0,01m	BM	11h14	0,00m	PM	17h57	0,01m			
mer 26	BM	1h59	0,02m	PM	9h08	0,01m	BM	14h37	0,01m	PM	20h31	0,03m
jeu 27	BM	3h22	0,04m	PM	9h53	0,03m	BM	15h25	0,02m	PM	21h20	0,04m
ven 28	BM	3h57	0,05m	PM	10h16	0,04m	BM	15h51	0,03m	PM	21h51	0,06m
sam 29	BM	4h24	0,07m	PM	10h35	0,05m	BM	16h13	0,05m	PM	22h18	0,08m
dim 30	BM	4h48	0,09m	PM	10h55	0,06m	BM	16h36	0,06m	PM	22h46	0,10m



HIBISCUS-TAHAA

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E-mail : hibiscus@tahaa-tahiti.com



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HAA MENE

"MARTIN" 11/97

South Pacific reels from storm

28 dead, missing after cyclone ravages atolls

By Jan TenBruggencate
Advertiser Staff Writer

One of the worst cyclones in the history of the central South Pacific swept through a swath of isolated islands south of Hawaii last week, leaving at least 28 dead or missing.

Cyclone Martin hit the northern atolls of the Cook Islands and French Polynesia, damaging at least six low-lying atolls, and reportedly leaving some

areas uninhabitable. Recovery efforts are moving slowly, largely because the islands are hundreds of miles from relief centers in the Cooks Island capital of Rarotonga and Papeete, Tahiti.

Some of the afflicted atolls are Pukapuka, Nassau, Rakahanga, Manihiki, Mopelia and Bellinhausen atolls. The Advertiser collected information on the disaster from news reports, South Pacific government sources and the National Weather Service.

Cyclone refers to the type of storms called hurricanes in the North Pacific.

The storm hit Pukapuka and

Nassau in the northern Cooks Friday Oct. 31 with winds of nearly 100 miles an hour, blowing roofs off of houses, a hospital and other structures.

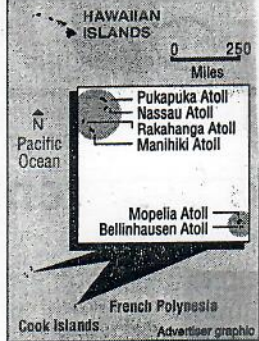
Waves of 20 feet pounded the shoreline at Rakahanga.

Manihiki atoll, a major site for black pearl farming, was especially hard hit.

Waves washed over the entire atoll. Early reports indicated 90 percent of its buildings were destroyed. Many of its estimated 700 residents were washed into the lagoon or the open sea. Four people were washed out of the lagoon in a

See Cyclone, Page A30

Cyclone hits South Pacific Isles



Cyclone: South Pacific islands ravaged

FROM PAGE A23

small boat on Manihiki, and showed up on Rakahanga, 30 miles away, on Wednesday.

"They were washed into the lagoon," said Temu Okotal of the Cook Islands Disaster Management Office. "That is a major achievement to survive, getting out into the lagoon, into the ocean and then ending up in Rakahanga, which is somewhat up wind... from where the hurricane came."

The four were hospitalized with unspecified injuries. Though others were found alive after drifting for as long as 20

hours, clutching wreckage, 13 Manihiki residents were missing and six were declared dead as of Friday. Dozens were injured.

Many others were left without homes and were catching rainwater in tarps, since island cisterns were contaminated or destroyed. The Cook Islands government announced it would evacuate as many of 300 of the island's residents, leaving the rest behind to begin a cleanup. Black pearl farms were severely damaged.

The storm moved into French Polynesian waters over the weekend, where it reportedly stripped Bellinhausen atoll and battered neighboring Mopelia

atoll. French reports indicated that only one of 10 people living on Bellinhausen had survived. The survivor, Alice Haano, used two strips of fabric to tie herself to a coconut tree. Though the storm hit Mopelia severely, none of its residents were injured. A French navy ship evacuated 30 people from Mopelia.

On Mopelia, French Polynesia president Gaston Flosse said: "All the houses have been destroyed and the coconut plantations are ruined."

Disaster relief can be sent to the Cook Islands High Commission, P.O. Box 12242, Wellington, New Zealand.

The Honolulu Advertiser

Sunday, November 9, 1997

Stone Remains in the Society Islands
K. P. Emory 1933

BORABORA

PLACE NAMES

The eight original districts of Borabora (fig. 115) were Nunue, Tipoto, Tevaitapu, Hitiaa, Anau, Atitia, Amanahune, and Ativahia. At present the districts have been reduced to three: Nunue, comprising the old districts of

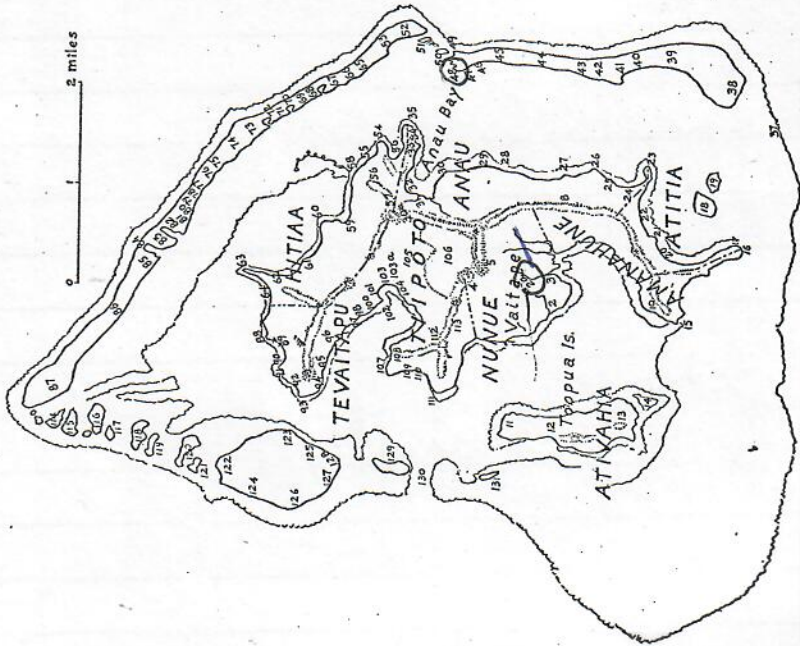


FIGURE 115.—Map of Borabora traced from survey made by Duperrey (16) in 1823. Numbers refer to place names (p. 161).

Amanahune, Ativahia, Nunue, and Tipoto; Anau, comprising Atitia and Anau; and Tevaitapu, comprising Hitiaa and Tevaitapu. The list which follows contains the place names of Borabora learned from natives in 1925 and 1931. Numbers refer to the map (fig. 115).

- | | | |
|---|----------------------------|-------------------------------------|
| 1. Vai-tape | 41. Motu O'oru | 87. Paharite |
| 2. Mata-pae | 42. Vai-pa'a-ro | 88. Pa-pua-a |
| 2a. Vai-ati | 43. Vai-o-re'a | 89. Vai-rupe |
| 3. Tura-pio | 44. Te-pue | 90. Uru-maru |
| 4. Te-tara-o-Pala | 45. Tiare-paunoma | 91. Apu-to |
| 5. Otemanu | 46. Pa'a-tuine | 92. Apo'o-varu |
| 6. Te-ana-o-pe'a | 47. Motu-roa | 93. Tere-fa |
| 7. Te-ara-te-ati (name of trail) | 48. Motu Tapu | 94. Mahu-to'a |
| 8. Oro-peru | 49. Toro-piro (canoe pass) | 95. Fare-tou |
| 9. Vero-hiti | 50. Motu Tupa | 96. Vai-nia |
| 10. Po'o-fai | 51. Apo'o-ma'o | 97. Vai-a-hau |
| 11. Tu-peti | 52. Te'a-raua | 98. Fare-to'a (a marae) |
| 12. To opua (name of whole island) | 53. Vai-toto | 99. Maut'a Popoti |
| 13. Tehou | 54. Otu-orcho | 100. Fara-ra'a |
| 14. To'opua iti | 55. Tia-noa | 101. Papara-ti |
| 15. Rai-titi | 56. Vero-ia | 102. Motu Oio |
| 16. Matira | 57. Mata-hua'a | 103. Fati'a-uru |
| 17. Mai-o'o | 58. Pufu-ia, or Puhia | 103a. Pa'a-nui Village |
| 18. Piti-u-u-uta | 59. Terao-oa | 104. Fata-rere |
| 19. Piti-u-u-tai | 60. Otu-o-rau | 105. Teroma (stream) |
| 20. Tahana | 61. Aua-nape | 106. Te-pare (plateau) |
| 21. Taurere | 62. Po'o-rehau | 107. Fare-rua, or Fare-piti (Point) |
| 22. Pa-o-pore | 63. Ta'hi | 108. Maut-tau |
| 23. Pa-oooa | 64. Paepae-pupure | 109. Pirio |
| 24. Toerai | 65. Te-marumaru | 110. Pa'a-tahi (Pa'a-tahi) |
| 25. Apuapu (name of trail) | 66. Vahi'a-utu | 111. Turai-mato, or Pahua |
| 26. Ara-ara-piti-u-pu'u | 67. Te-miromiro | 112. Po'o-po'o-ure-roa |
| 27. Pererai-fai | 68. Te-nanamu | 113. Pa'a-tohoro |
| 28. Anau Village | 69. Te-miromiro | 114. Havae |
| 29. Ta'a-hio | 70. Tuataia'ao | 115. Pito-rave |
| 30. Apo'o-fe'e | 71. Te-mahu | 116. Motu Tane |
| 30a. Teca Tac (trail) | 72. Vai-pi-rari | 117. Pa'ahi |
| 31. Vai-ro | 73. Tia-ie | 118. Vana-nui |
| 32. Albau-tai | 74. Fenua-piha | 119. Mo-tite |
| 33. Toru-torea (name for three geological stacks) | 75. Te-vai-pohue | 120. Motu Apiti |
| 34. Fitiu | 76. Fenua-piha | 121. Vavaere |
| 35. Tia-hora | 77. Fa'a-raerae | 122. Rauoro |
| 36. Ha'a-maire | 78. Vai-o'pu | 123. Vavarufi |
| 37. Fiti-ahu | 79. Taura-otaha | 124. Manini |
| 38. Te pu-horo | 80. Te-umu-a-ture | 125. Tevai-roa |
| 39. Te-puna | 81. Te-rurumi | 126. Otu-ohu-hoc |
| 40. Te-hura | 82. Are-iti | 127. Otu-ohu-piti |
| | 83. To'opai-tori | 128. Motu Ahum |
| | 84. Haru-totara | 129. Te-ava-nui (pass) |
| | 85. Muri-ete | 130. Motu Tapu |
| | 86. Te-hotu | 131. |

La Fondation HIBISCUS-TAHAA

Association loi 1901

Pour la protection
des tortues marines.



Découvrez les tortues marines. Vous serez sous le charme de ces animaux exceptionnels, de leur beauté et de leur grâce. Depuis 1992, la Fondation HIBISCUS - TAHAA, les protège, les soignent et lutte pour leur liberté. Les parcs à tortues marines sont situés près du ponton de l'hôtel. Vous pourrez les visiter gratuitement.

En général les repas ont lieu à 8h00. Avant d'être relâché dans l'océan pour retrouver leur liberté, les tortues marines sont baguées, mesurées, pesées, afin de mieux connaître leurs migrations.

Au 31 Décembre 2001, la fondation avait acheté et relâché 1019 tortues marines. Pour aider la Fondation HIBISCUS-TAHAA, vous pouvez parrainer une tortue, un certificat vous sera alors adressé avec le numéro de la bague de la tortue et ses mensurations.

Dans les années à venir, toutes les informations reçues de «votre tortue», vous seront transmises.



ECLOSERIE POLYVALENTE

DETARAVAO

E.V.A.A.M.

B.P. 7031

TARAVAO - TAHITI

Télécopie : (689) 57.70.56

N/REF ..EPT/JPL/bb

Taravao, le 18/07/1995

995

TELECOPIE

FROM: Jean-Pierre LANDRET
 TO FAX MESSAGE N°: 00+ (808) 943 12 90
 COMPAGNIE: NATIONAL MARINE FISHERIES
 ATTENTION: M. George BALAZS
 NB PAGES: 4
 REF:

Dear George,
 Thank you for your fax from 18/07/95.
 I will not go to NATIIVA because our Turtle programme
 is stopped.
 NATIIVA is near RANAIROA (cf. the map).
 You'll find near the list of my last Tags (yours).
 You can send the Tags, we'll pay for the shipping.

Best regards,

Jean-Pierre

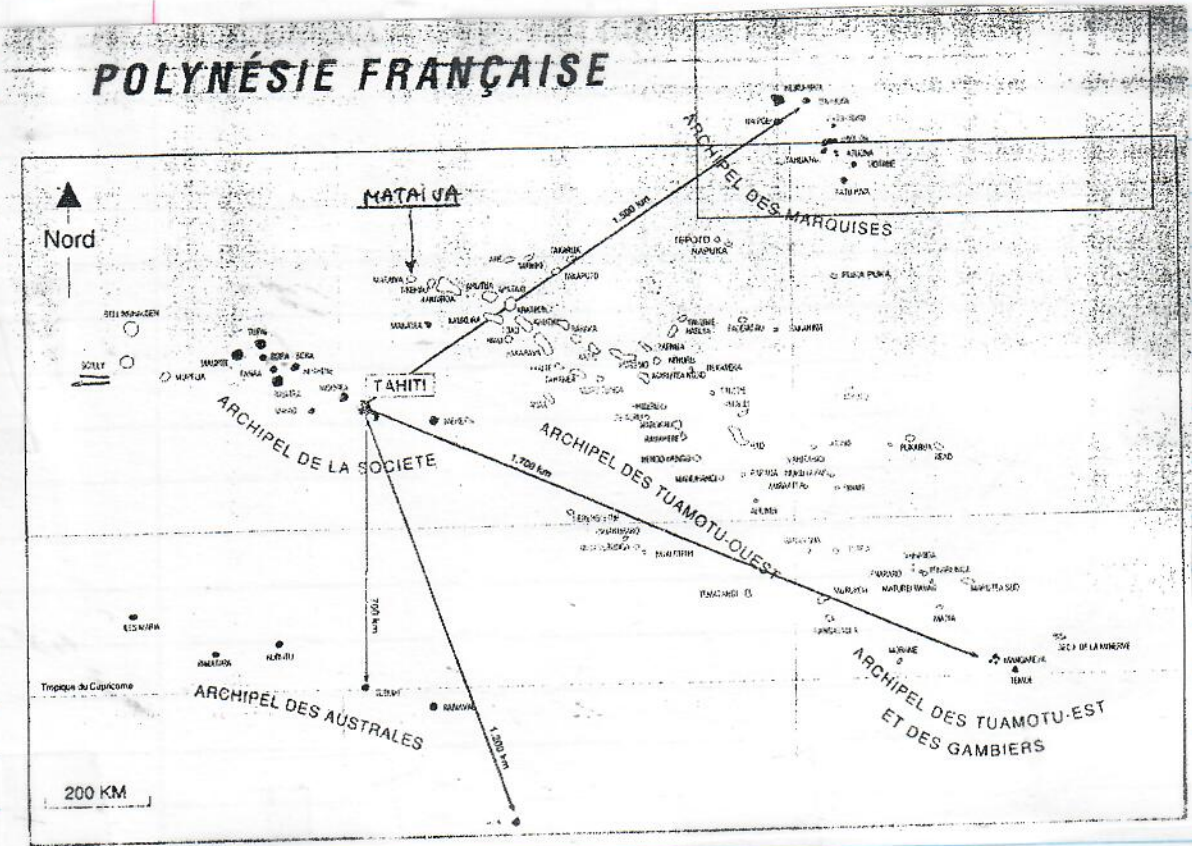
P.S. About the Turtles nesting at NATIIVA I SUPPOSE they are
 to a maximum 200-300, but I have none information on that.

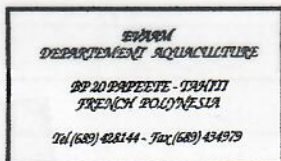
List of the Voygs.

Jean-Pierre Candrot
Tahiti

SPAP	R 1000 → R 1025	N=25	Togin Stock 25 of 7/18/95
	R 1026 → R 1050	N=25	
	R 1054 → R 1075	N=22	
HMB	S 690 → S 698	N=9	
	S 699	N=4	
	S 782	N=1	
	L 50	N=1	
	L 518 → L 525	N=8	
	L 180 → L 187	N=8	
	L 827 → L 835	N=9	
	L 988 → L 999	N=12	
M 260 → M 262	N=3		

NT=124





Papeete, le 01/04/1997

REF : N° 16 / EVAAM/PL

Please, note the new address and FAX
 name *Jean-Pierre*

TELECOPIE

DE LA PART DE Jean-Pierre LANDRET
 A FAX MESSAGE N° : 00*-(676)-23891
 COMPAGNIE : JICA Fisheries project
 ATTENTION : Shigeaki SONE
 NB PAGES : 1
 V/REF :

M. George BALAZS

Dear Mr. Sone,

Mr. George BALAZS relayed to me your letter from 04 March 1997.

Some turtles were reared from hatchlings at Scilly atoll (near Bora Bora, in French Polynésia) by a résident, and released:

- in September 1994 (580 turtles, Tags M 26 to M 912),
- in November 1994 (200 turtles, tags L 89 to L 825).

I send you the entire liste of the tags "M" and "L" .

The Turtles were from the same batch. I don't know how old they were; probably one year .

The curved length of the carapace was approximately 25 cm.

Right now, 5 turtles have been recaptured, and released again :

- M 137 in November 1994 at Maupiti island, near Bora Bora,
- M 820 in Mars 1996 at Tahaa, near Bora Bora. This is the turtle you have in captivity at ministry's Hatchery,
- M 54 in september 1996 in Fiji,
- M 618 in November 1996 in Western Samoa,
- M 133 in November 1996 in Western Samoa.

You can let the turtle M 820 go again in the ocean.

Thank you very much for your collaboration.

Best regards.

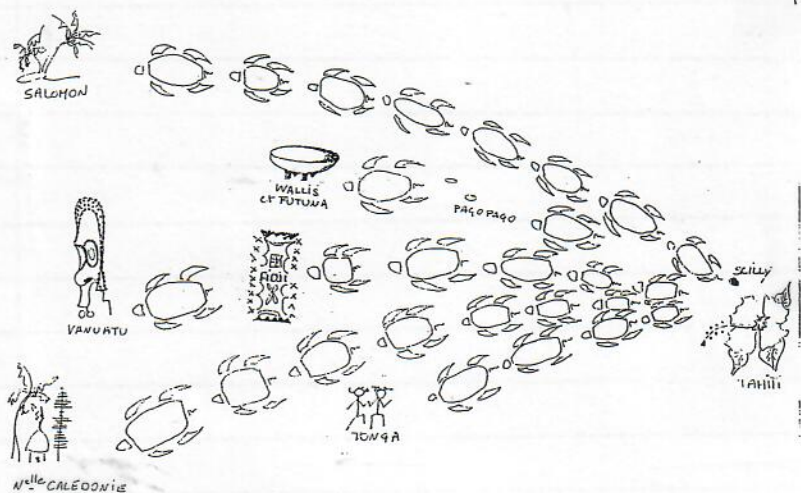
Copie : George BALAZS

J.P. Landret
Jean-Pierre LANDRET

Les migrations des tortues marines.

Les tortues marines sont des espèces migratrices. Elles sont capables d'effectuer plusieurs milliers de kilomètres pour relier les zones d'alimentation et celles de reproduction, parfois séparées par de grandes distances. Ces reptiles sont dotés d'une remarquable faculté d'orientation et de navigation faisant appel à des systèmes biologiques très complexes et encore mal connus; ainsi, elles utiliseraient le champ magnétique terrestre et auraient des repères de nature chimique. Des campagnes de marquage de femelles reproductrices ont permis de fournir quelques renseignements sur les distances parcourues, la fréquence des pontes, la fidélité à certains sites. Mais cela est encore mal connu de nos jours.

La migration des tortues vertes
de Sully (site de ponte) vers les sites d'alimentation
IMiau 50A



Les migrations de la tortue verte. (IMiau 50A)

La naissance de la tortue

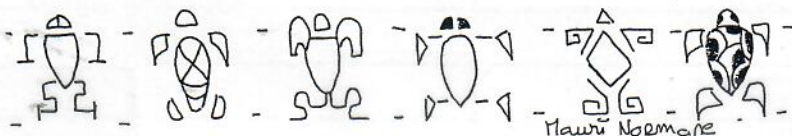
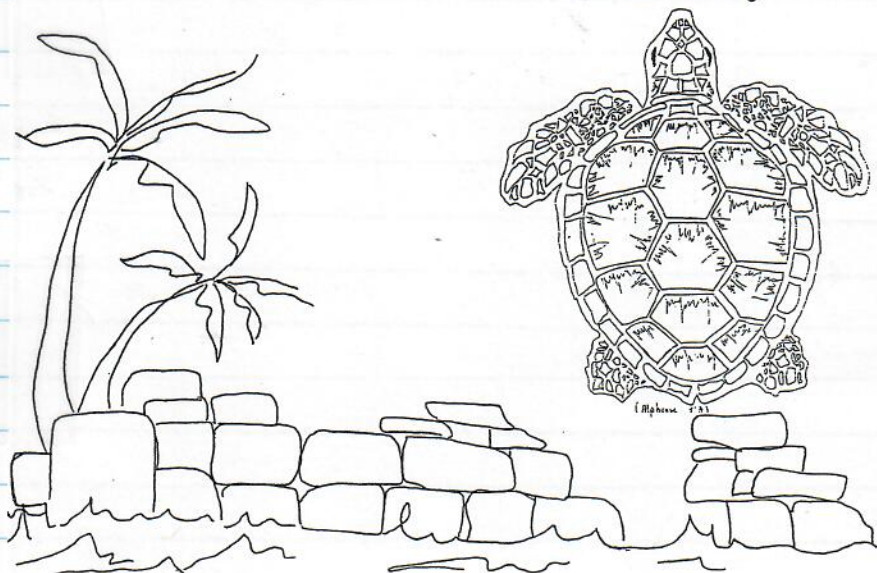
Rû-moana-urifa, Rîfarîfa et leur fils visitaient l'île de pupua: ils donnèrent naissance à des tortues marines. Au bout d'un certain temps, ces tortues se multiplièrent dans les archipels, choisissant de préférence les îles basses et sablonneuses pour y poser leurs œufs. Pendant que le monde était encore neuf, une tortue et une poule eurent une discussion. Chacune se croyant plus importante que l'autre, la tortue dit à la poule:

— Vous êtes vulgaire, vous serez mangée par les femmes et les enfants tandis que moi je serai une nourriture sacrée pour les Dieux, je sauterai dans la maison du Dieu. La poule répondit avec mépris:

Comment pouvez-vous sauter dans la demeure des Dieux? Vous serez vous-même mangée par les femmes et les enfants, quand à moi je planerai dans les profondeurs de la mer et ainsi je leur échapperai.

A ce moment la tortue fut ramassée par un homme rigoureux qui la porta au roi qui, très heureux, l'envoya au MARAE, pour les Dieux. Depuis ce jour, la tortue est sacrée.

D'après le livre: "Tahiti aux temps anciens
de Teuira Henry.

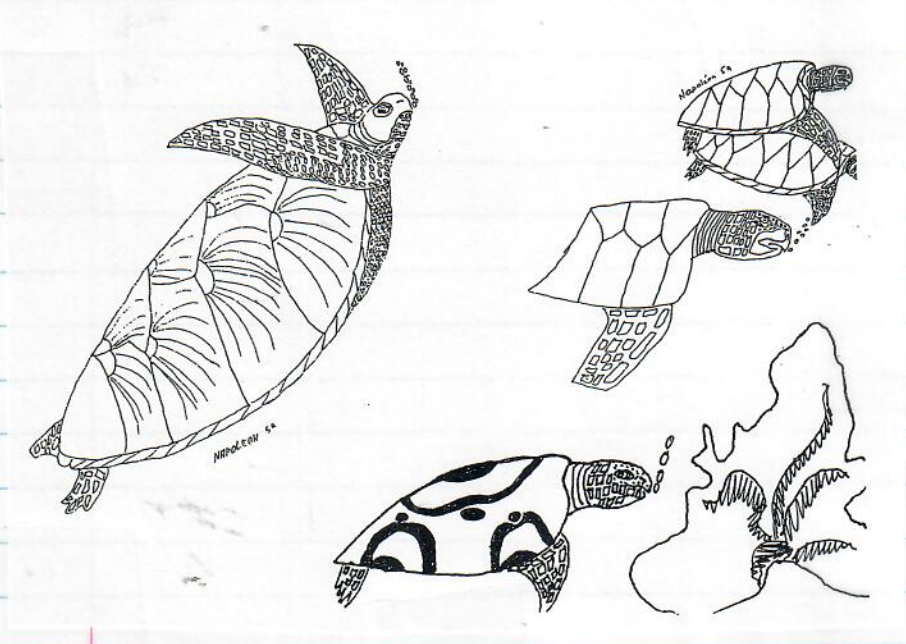


La TORTUE dans La Culture Polynésienne.

L'histoire de La tortue précède de Loin L'apparition des polynésiennes (4 à 20 Millions d'années) et l'arrivée de 1 premiers occupants humains. Parmi d'autres légendes, la tradition rapporte que dans les montagnes de L'île de Raiatea , il existe sept pierres marquées d'un petrogly représentant une tortue. La tortue est le symbole de mer et le symbole de L'univers clos.

La carapace représente le ciel.
Le ventre représente la terre.
les pattes représentent l'équilibre des points cardinaux.

ELLE EST REPRÉSENTÉE DANS TOUT L'ART POLYNÉ "INTERDIT" AUX JEUNES ET AUX ENFANTS PARCE QUE TROP SACRÉE . LA TORTUE EST "TAPU" SACRÉE DEPUIS -'ORIGINE DES TEMPS JUSQU'À NOS JOURS.

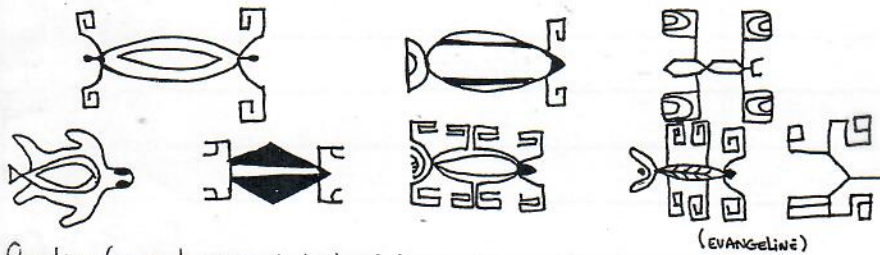
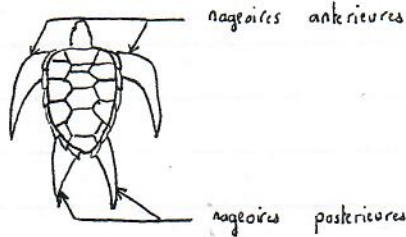


BIOLOGIE

Question: Comment se déplace la tortue?

Réponse: La tortue se déplace avec ses nageoires:

- Antérieures pour la propulsion
- Postérieures pour la direction et la stabilisation dans l'eau.



Question: Comment respire la tortue? Par quoi?

Réponse: La tortue n'a pas de branchies, elle a des poumons. Elle respire à la surface, par la cage thoracique (immobile) qui permet l'entrée et la sortie de l'air dans les poumons grâce aux mouvements du cou et des pattes antérieures. Elle expire bruyamment, ventile complètement ses poumons afin d'emmagasiner un maximum d'air avant la prochaine plongée.

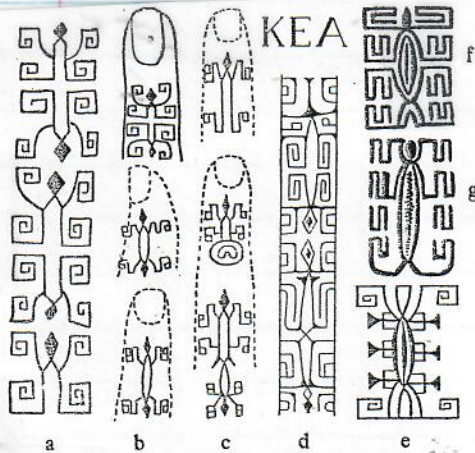


Abb. 119. KEA, SEKUNDÄRE SCHILDKRÖTE. a 5, d 4 Stück zu- und abgekehrt. b Panzerbildung, 2 Endköpfe. f (Terrine), g (Ruder) mit 8 mäandrischen Beinen. e. f Afterbildung.

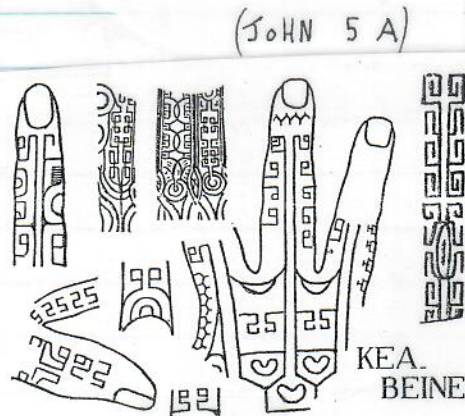
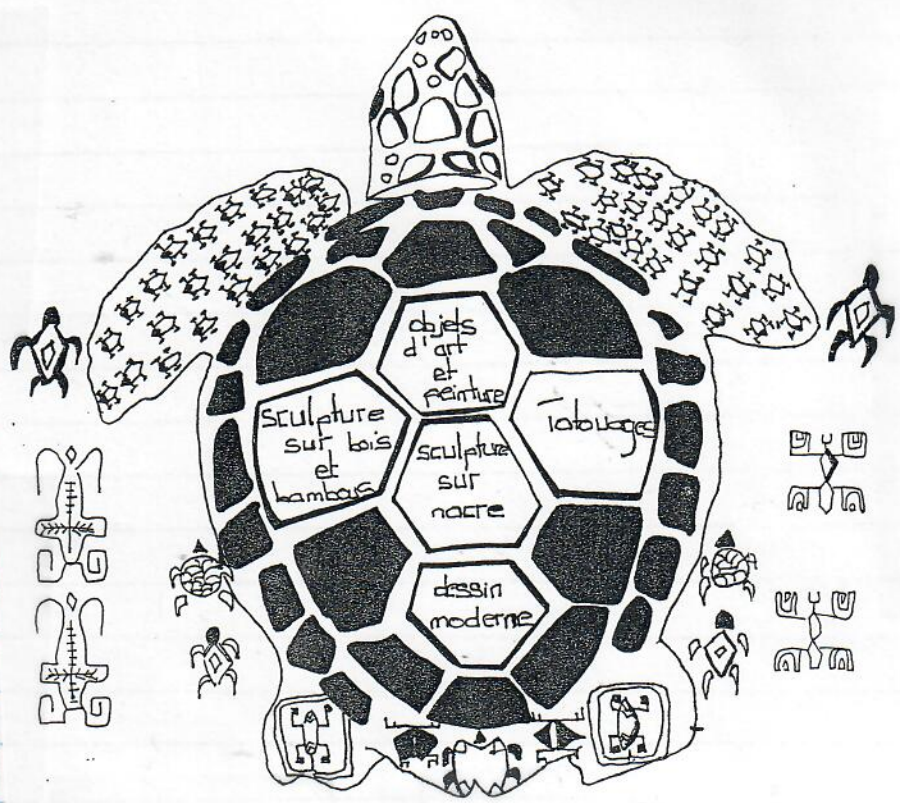


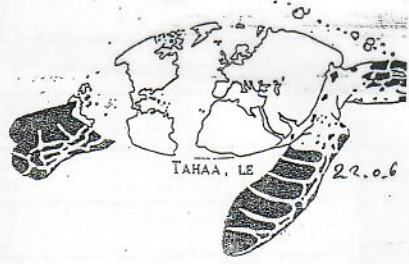
Abb. 120. WINKELBESETZTE RUMPFBAHN. Mäanderelemente; Zahnfleisch.



Tetua - Monalice -

« FONDATION HIBISCUS »

(Association Régie Loi 1901)
 Pour La Protection Des Tortues Marines
 bp184 HAAMENE
 Ile de TAHAA
 POLYNESIE FRANCAISE (French Polynesia)
 Tel : (689) 65.61.06
 Fax : (689) 65.65.65



Mouren fene TAHAA
 US Department of Com.
 HAWAII

Bonjour :

ci joint le dernier état des
 Tortues relâchées.
 Je vous souhaite bonne nuit
 et vous adresse un grand bonjour de
 Tahaa.

L. M. S.



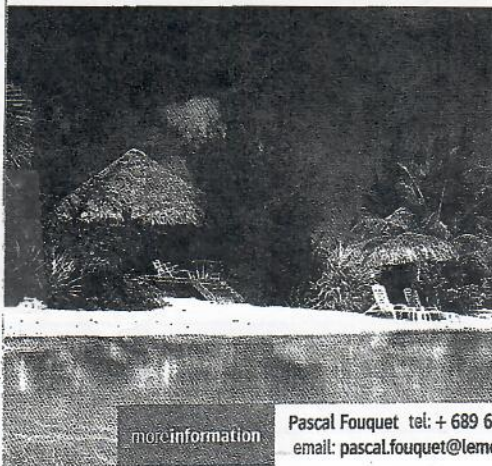
DATE	TIME	HOURS	TRACKS	WEIGHT	CM	CM.	TAHAA	BOIS	DEVILS	UJA	TORQUE
ECRIS	05.05	96	9488 POOF	7kg	41.5	45cm	TAHAA	BOIS	DEVILS	UJA	WILLIE
VERTE	07.05	96	TAHITI N ^o 2640	15kg	49cm	51cm	TAHAA	STEDEN	SADARA	GERARDY	CASTOR
VERTE	07.05	96	TAHITI 2644	7kg	43cm	45cm	"	STEDEN	SADARA	GERARDY	POLKX
VERTE	07.05	96	TAHITI 2649	9kg	44	46cm	"	PREUS	BAVAR	GERARDY	JUPITER
ECRIS	15.05	96	9488 EX N ^o 5496	7kg	41.5	45cm	"	"	"	"	"
TORQUE REFUSE PAR LES PACHICONS LE 10.05.96 CICHY											
VERTE	19.05	96	R10316 R10317	9kg	44cm	44.5cm	CAHARET	4PA-ITI LEAN	APA ITI	FRANCE	APA-ITI
VERTE	23.05	96	R10312 R10313	7kg	42cm	43cm	TAHAA	DEATO	-	AUTRICHE	PRIMI
VERTE	23.05	96	TAHITI 2635	7kg	40	43cm	TAHAA	ARG.	STANBOST	ARGENTINE	-
VERTE	25.05	96	TAHITI 2636	10kg	42	43cm	TAHAA	PREUS	Noorides	GERARDY	KASIAINA
VERTE ECRIS	25.05	96	R.10325	2kg	32	36cm	TAHAA	CARLINGFORD	-	ENGLAND	CARLINGFORD
VERTE	26.05	96	TAHITI 2628	6kg	41	44cm	"	LELAN	WOODING	UJA	GAUGUIN
VERTE	27.05	96	TAHITI 2631	11kg	45	46cm	"	THEVENO HARRISON	TAHITI	TAHITI	AUGUSTIN

DATE	HEURE	CHASSEUR	ESPECES	POIDS	LONGUEUR	LAISSE	TEMPERATURE	PROFONDEUR	NATIONALITE	NOM	OSSEMENT
VEZTE	29.05.96	65/96	TAHITI 2629	9kg	46 cm	44 cm	TAHITI	46 cm	TAHITI	CHACER	HERCE MEHEMETE
VEZTE	29.05.96	66/96	TAHITI 2627	12kg	47 cm	45 cm	GILARD	47 cm	FRANCE	PACIFIC DIVE	QUARZASOUY
VEZTE	29.05.96	67/96	TAHITI 2642	9kg	42 cm	42 cm	MARAU	45 cm	TAHITI	BAAHI	MAKAU
VEZTE	05.06.96	68/96	TAHITI 2634	7kg	44 cm	44 cm	PINER	44 cm	TAHITI	TAROUS	TANI-PAEA
VEZTE	07.06.96	69/96	TAHITI 2646 PEPE R. 10787	8kg	44 cm	44 cm	MAETI	45 cm	FRANCE	CARARANA	VANESSA
VEZTE	07.06.96	70/96	TAHITI 2647 R. 10786	6kg	41 cm	43 cm	J. PAUL	43 cm	FRANCE	CASCARNE	J. F. HUTIN
VEZTE	10.06.96	71/96	-	-	-	-	-	-	-	-	VANICA
VEZTE	16.06.96	72/96	TAHITI 2634	7kg	44 cm	44 cm	DIOUX	44 cm	TAHITI	PAUL F. EN OUEVO	PAUL F. OUEVO
ECHILLER	17.06.96	73/96	R. 10784 R. 10785	12kg	45 cm	47 cm	LES PIECES A PAINOUL U	47 cm	FRANCE	S. BECHE	ALEXANDRE T.
VEZTE	17.06.96	74/96	R. 9651 R. 9652	9kg	44 cm	46 cm	T. TEAI	46 cm	TAHITI	S. BECHE	LAURA T.
VEZTE	18.06.96	75/96	R. 9773 R. 9774	10kg	45 cm	46.5 cm	J. HALOOROT	46.5 cm	HOLLAND	HOLLAND	TESSA

Le Méridien Bora Bora, French Polynesia

Located in the resort's private interior lagoon, the **Turtle Sanctuary at Le Méridien Bora Bora** was established six years ago by **Pascal Fouquet**, the resort's General Manager, when a guest found an injured sea turtle in need of care. More turtles followed and since then, Pascal has educated himself on the biology, taxonomy, care, feeding, reproductive capabilities and rehabilitation of marine turtles so that he can pass on the knowledge he has acquired to help protect them.

Unlike land-based turtles, sea turtles cannot tuck into their shells for protection which makes them particularly susceptible to predators and poachers. They have long been part of the Pacific Islands culture, where their meat is relished for its flavour – and the Christmas feasting season is a particularly dangerous time for them. Turtles are also used by poachers as barter for goods and services. According to Pascal, trying to shift the islanders' perceptions of turtles is an uphill and diplomatic struggle. He has developed an educational



more information

Pascal Fouquet tel: + 689 60 5112
email: pascal.fouquet@lemeridien.com web: www.boraboraturtles.com

presentation for guests, visiting schools, volunteers and local people which covers everything from the turtles' evolution and mating rituals to their algae-eating habits that turn them green. Visitors can watch and even swim alongside the turtles in the private lagoon as they mature and rehabilitate before heading out to sea.

With the local government financing half of the effort, the sanctuary cares for turtles during the three first and most precarious years of their lives. Its team works closely with the **Ministry and Directorate of the Environment** which monitors aspects of their work. During the nesting season from October to February, resort guests and local volunteers search for nests, collect and mark eggs and help to tag mothers for future identification. Nests are transferred intact to the hotel's private beach to keep them safe from predators. When the turtles hatch, they stay in the nursery for a year to grow and mature away from harm. They are then relocated to the resort's lagoon where they continue to develop in the presence of larger turtles. At the age of three they are released into the South Pacific in the hope that a decade or so later they will return to lay their eggs.

Pascal recently welcomed specialists from the **Secretariat of the Pacific Regional Environment Programme (SPREP)** and the **Programme Regional Oceanien de l'Environnement (PROE)** to tag the turtles for satellite tracking. He firmly believes that each guest leaves inspired to help. Since 2000, the resort has released **230** rehabilitated turtles back into the wild and drawn the awareness of thousands to their plight.

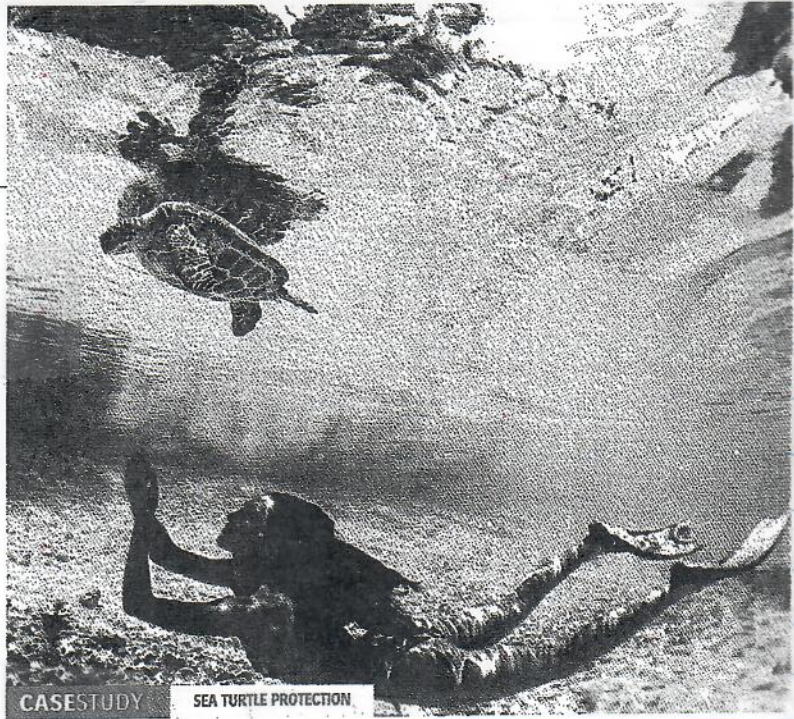
Regent Seven Seas Cruises

Regent Seven Seas Cruises (RSSC) policies are set to meet or exceed the standards set in international treaties and applicable US laws. As a member of the **International Council of Cruise Lines (ICCL)** it has to comply with the environmental guidelines that members voted on being a mandatory requirement. RSSC has adopted aggressive programmes for waste minimisation, waste reuse and recycling, waste stream management and shore-side waste disposal. Equipment on board the cruise line's ships includes grinders for food and product waste; separators for galley products and recycling facilities; crushers for glass, aluminium and cardboard materials; incinerators for food, cardboard, paper and other waste by-products and the latest membrane bio-reactor technology for advanced waste water treatment.

In recent years, RSSC has invested in state-of-the-art technology to meet stringent environmental standards and in staff education and training. The **Seven Seas Mariner**, the **Seven Seas Navigator** and the **Seven Seas Voyager** all carry the **RINA Green Ship Standard***. This is awarded by Italy's RINA classification society and has 'clean sea' and 'clean air' components which set strict requirements on the ship's design and operation.

The cruise line has an exclusive partnership with the oceanographer **Jean-Michel Cousteau** (son of Jacques Cousteau) and his **Ocean Futures Society** which provides lecturers and material for programmes shown on board.

Following a study of the captive dolphin industry in 2004, RSSC took the decision to stop offering captive dolphin encounter excursions at its ports-of call.



CASESTUDY SEA TURTLE PROTECTION

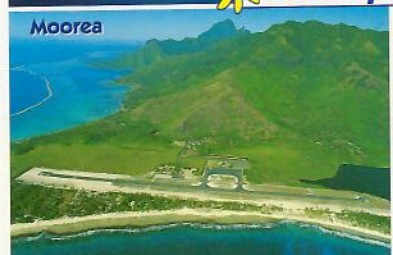


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email: tpolski@carlson.com

*See www.rina.org/eng/services_more.asp?id=2255&cont=2249&doc=2266&path=sc



Aéroports de Tahiti et ses Iles



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SECTION

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NDAY | April 9, 2006

Island Life



FEAT
E-mail: ekieszkowski@H

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Devoted to making discoveries

Anthropologist preserves culture, treasures of French Polynesia



Bishop Museum anthropologist Yoshiko Sinoto holds a Polynesian fishhook that dates from before Capt. James Cook's arrival in the Islands. A later hook is on the left.



Photos by **DEBORAH BOOKER** | The Honolulu Advertiser

Yosihiko Sinoto, 81, senior anthropologist at the Bishop Museum, displays trays of fishhooks, which have helped date other archaeological finds in eastern Polynesia.



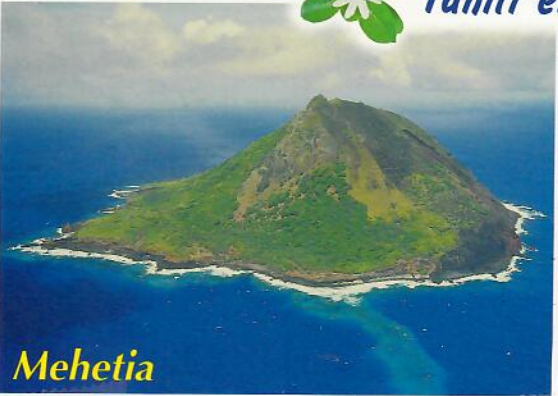
Bora Bora



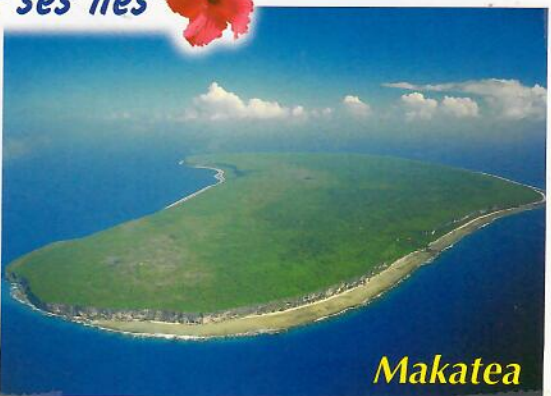
Tetiaroa



Tahiti et ses îles



Mehetia



Makatea

2006-007
postcard

BY MARY KAY RITZ
Advertiser staff writer

Deep in the bowels of the Bishop Museum, through the Great Hall where a royal canoe and lifesize whale hang overhead, past a courtyard and down a musty corridor lined with lockers filled with artifacts and meticulously labeled boxes filled with his life's work, you can find Yoshiko Sinoto, the man considered the archaeological equivalent of a demigod by many of our Pacific neighbors.

"If he ran for president in French Polynesia, he'd probably get elected," says Bill Brown, head of the Bishop Museum.

So why, when you meet the unassuming Sinoto, do you get the sense that he's more conscientious sidekick than Indiana Jones?

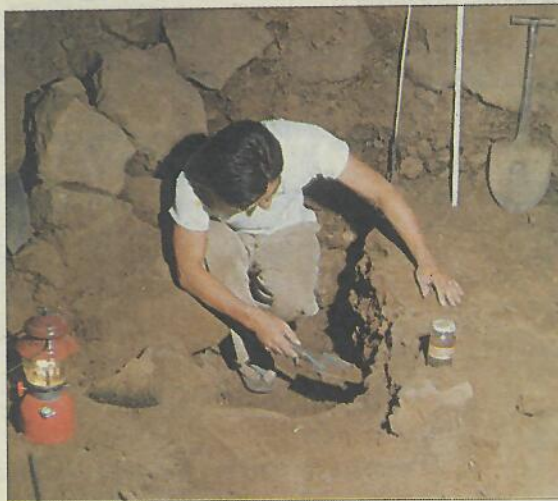
Perhaps it's the diminutive frame — the top of his head just skims 5 feet — or perhaps it's the thick, spotted epidermal layer tanned to cowhide after years at excavation sites under the unrelenting sun. More likely it's the mirthful smile and love of a good punch line that give him away as anything but a politician.

His name may not make the ballot, but you will find Sinoto in the history books: Known not just for his scientific breakthroughs, Sinoto's efforts are as far-reaching as the Pacific Ocean, helping to keep the ancient treasures of French Polynesia preserved and maintained in French Polynesia.

Ask him what he considers his most important discovery, and he talks about the concept of early Polynesian migration. He disputes the common assumption

SEE SINOTO, D14

WHAT LIES BENEATH:



Photos courtesy of Yoshiko Sinoto

1955

A young Yoshiko Sinoto works at Makalai Cave, an archaeological site at South Point on the Big Island.

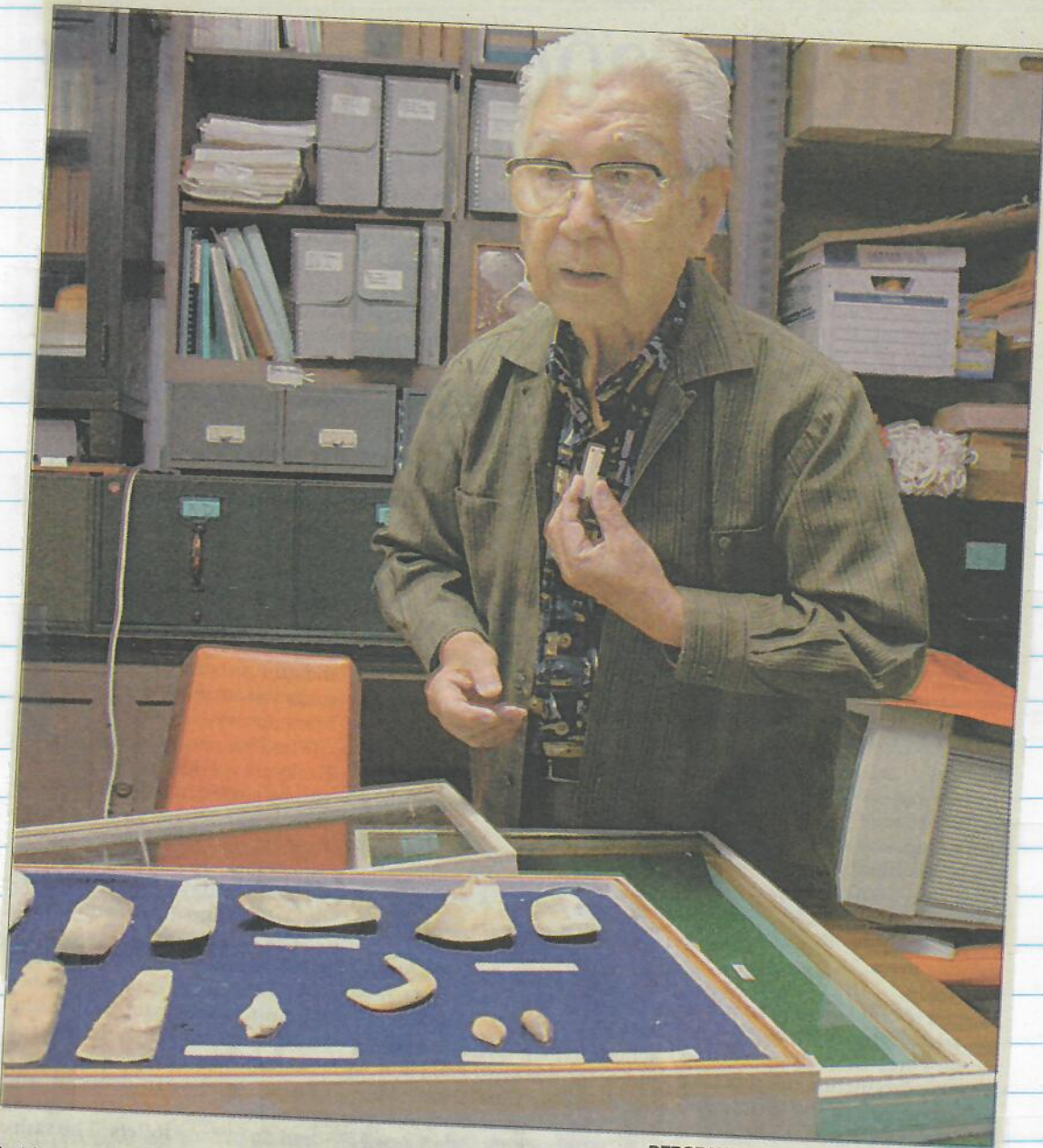
UNCOVERING ANCIENT TREASURES OF POLYNESIA



1961 Sinoto, right, and longtime colleague Kenneth Emory, at a dig on Maupiti in French Polynesia.



1982 On Huahine, Sinoto excavated planks, a paddle and, seen here, a mast from an ancient canoe.



DEBORAH BOOKER | The Honolulu Advertiser
In his office at the Bishop Museum, anthropologist Yoshiko Sinoto holds a bone pendant, an artifact he has recovered from his many research trips and archaeological digs at Huahine.