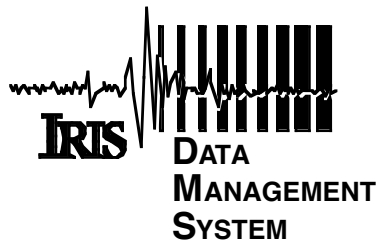


# Mururoa

Mururoa and Fangataufa Nuclear Explosions  
1966-1996

AWE (Atomic Weapons Establishment) Blacknest

## Assembled Data Set 05-005



Distributed by:  
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NOTES ON MURUROA AND FANGATAUFA TEST SITES NUCLEAR EXPLOSIONS (BLACKNEST)

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Version Date - 4th October 2004

The file README contains this script and other relevant notes.

The file BKNAS contains the definition of the BKNAS header and the description of the various fields within the header.

The file LIST contains all the information required to organise, process, and digest the French Mururoa and Fangataufa nuclear explosions (air burst and underground).

The file TABLE contains the summary of the processing of the French Mururoa and Fangataufa underground nuclear explosions.

The file LINKS contains links to generalise the naming of the event directories.

Each year directory contains the files to process and beam-form the seismic data for each French nuclear explosion that one or more recording exists.

Each directory (year/date) contains up to five sorts of files : -

- (a) Original data defined (date.time\_STN) by the name of the file and converted data in BKNAS, CSS, and IMS formats,
- (b) Controlling files (date\_stn.input) defined by date containing all necessary information for beam-forming by the APPLE program,
- (c) Phase files defined by the phase code @ the station containing enough information for beam-forming by the APPLE program,
- (d) PostScript files (I1\_...ps,P1\_...ps) containing information and the seismogram plot (output from the APPLE program),
- (e) Three files (info,plot,file) containing further information.

Each controlling file (e.g. date\_stn.input) contains up to 10 lines : -

- (1) The word APPLE and the sampling rate,
- (2) A title some of which is self-explanatory,
- (3) A number in col.1 which defines the form of the hypocentre,
- (4) The hypocentre information,
- (5) The station code (YKA,WRA,GBA,EKA), the sensitivity number, and the form number for the PostScript files,
- (6) The channel definition and position in the data file\*,
- (7) The instrument number (Blacknest code),
- (8) Tape form number (20,21,32), number of channels, start time, and other 'useful' numbers,
- (+) Onset time (UTC) corresponding to start time (if known); critical for original analogue data, optional for digital data,
- (9) Filename of original data.

Zero length controlling files indicate no data is available or is not included.

Of the three further information files (info,plot,file) the most useful is info which contains a summary for each explosion.

The fields are; station code (YKA,WRA,GBA,EKA), date, start sample (start time \* sampling rate), onset time type, picked onset time, phase, depth, distance, given Mb, amplitude, period, distance factor, and Mb estimate.

\* Channel definition and position requires further explanation : -

- (e) Each channel is defined by four characters and its position in

- the line corresponds to its position in the BKNAS data file,
- (f) The first three characters define the pit code,
  - (g) The fourth character defines its use : -
    - blank for normal use,
    - \* display but do not use,
    - ! glitches occur but outside arrival time window +/- 5s (say),
    - + use irrespective of glitches, etc.,
    - invert and use irrespective of glitches, etc.,
  - (h) All four characters as \*\*\*\* indicate an unknown, a non-SP, a grossly over-loaded, or a blank channel,
  - (i) On original analogue data (tape form 21) the time channel is usually the next channel after the last defined channel and is not displayed.

Suggested Processing : -

- (A) Select the nuclear explosion of interest,
- (B) View the P1\_...ps file with a PostScript reader,
- (C) Get the start sample number from the info file,
- (D) Use appropriate tools to form a window and beam-form the event.

#### YKA (YELLOWKNIFE ARRAY) SPECIFIC NOTES

##### ALL EVENTS IN 1985 AND 1986

-----

In 1985 and 1986 the recording heads on the analogue tape deck were not aligned correctly. The APPLE program allows for this 'skewness' so correctly beamed seismograms are generated. For completeness, the original seismograms have been corrected and stored as BKNAS, CSS, and IMS format files. The original raw data files are also included.

##### EVENTS 19-JUL-1980 AND 25-MAY-1983

-----

The digitising settings for analogue to digital conversion were set low so any event over about Mb 5.8 is overloaded. These two nuclear explosions being overloaded, no original data was transferred from analogue to digital tape. However, VBB files exist for these two nuclear explosions and processed phase files are included with the YKB station code.

A number of YKA analogue recordings were digitised with the VBB channel. Some of the larger nuclear explosions which are overloaded or near overload have also been processed and phase files included with the YKB station code.

#### WRA (WARRAMUNGA ARRAY) SPECIFIC NOTES

The amplitudes recorded from Mururoa nuclear explosions really are about a magnitude down compared to those recorded at YKA. As the amplitudes recorded from Fangataufa nuclear explosions compare favourably with those recorded at YKA it has been assumed that the Mururoa 'effect' is due to attenuation at source.

#### GBA (GAURIBIDANUR ARRAY) SPECIFIC NOTES

The amplitudes recorded from Mururoa and Fangataufa nuclear explosions suffer from the same 'effect' as those recorded at WRA. A further complication is that the recording distance is at the PKP triplication

and the first arrival time is usually outside the travel time tables. The slow rise time on some first arrivals is thought to be due to fact that the signal is the Hilbert transform.

#### EKA (ESKDALEMUIR ARRAY) SPECIFIC NOTES

##### EVENTS OVER MAGNITUDE Mb 5.1

-----

EKA is not located at a suitable distance to record the small nuclear explosions. All explosions over Mb 5.1 have been processed at fixed times and given a PKP DETECTED label if there is a positive correlation. However, most detections have to be dubious. All the Fangataufa records have been processed but only 4 out of 10 nuclear explosions were detected. All other explosions except one (see below) have not been processed but are included for completeness.

##### EVENT 6-MAY-1986

-----

The ISC did not report this nuclear explosion though it was clearly seen at YKA. The detection is as clear as normal for EKA (i.e. not clearly seen) but is obviously from the right direction at the right speed.

## The `BKNAS' Seismic Data Format Version 1.0

-----

Note: This note summarizes information previously given in AG Notes 304 and 359.

### 1. Introduction and a Little History

Seismic data edited at Blacknest were originally written to magnetic tape as IBM format `master tape' files. The format of the data contained in these files varied, due to the separate handling of analogue, digital, broad band, long period and short period array data over the years, but the data were always written in binary form.

The files had six standard 80 character labels: four tape headers (VOL, HDR1, HDR2, and a user label), and two trailers (EOF1 and EOF2). The information contained in these labels was the only concurrent information available regarding the seismic data contained in the file. A short description of each of these data formats is given in section 4.

A new data format was developed for the Digital MicroVax at Blacknest in the early 1990's. This was the Blacknest raw data format (BKNRW), again, a binary data format but allowing for a 32000 byte header to contain array information and so on. The format is described in section 3.

The Blacknest ASCII format (BKNAS) has since been created to allow for easy transfer of data between different operating systems at Blacknest and elsewhere.

#### IMPORTANT POINT:

-----

The BKNAS format is essentially a super-format, able to describe all the other edited data formats which have been used at Blacknest to create master tape files.

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In the BKNAS format, the multiplexed seismic data are displayed in

ascii, readable columns, one line per time sample.

Version 2.0 of the BKNAS format was developed to allow external users access to data contained in the seismic data archive ('robby') at Blacknest via an automatic data request manager (AutoDRM). It contains a different header format which excludes all local parameters. The format of the seismic data is the same as in version 1.0. For more information on this format, consult the Blacknest AutoDRM documentation.

Version 3.0 of the BKNAS format is currently being developed for the new in-house digitizer. A description of the new format will be available when the new system is implemented.

## 2. The BKNAS Data Format

### 2.0 Elements of the format

The BKNAS data format is an ascii format and has three basic structures:

1. One 80 character 'File' card; always present.
2. Header cards, either:
  - i. Three optional 80 character tape header cards, comprising:
    1. HDR1 card, copied directly from the master tape header
    2. HDR2 card, copied directly from the master tape header
    3. User label, an almost direct copy of the master tape header

The three tape header cards are only present in files which do not have the full 400 line 'BKNAS' header. For information on the data formats which use these header cards, see section 4.

or:

- ii. Optional 400 line, 80 characters per line 'BKNAS' header. For information on the 'BKNAS' header, see section 3.

3. Lines of data: one line per time sample, one column per channel

### 2.1 The File card

The File card format:

Columns	Format	Description
1-5	A5	Always 'BKNAS', the format type
7-10	F4.1	Version number of the format, currently 1.0
12-16	A5	Full station code name as known in-house
18-19	I2	Number of channels (thus columns) of data
21-23	I3	Number of lines of header following this one. This is normally 3, except for old BKNRW format input data, where it is 400
25-27	I3	Number of non-waveform data samples per channel (and thus the number of lines of such data) immediately following the last line of header
29-35	I7	Total number of samples per channel contained in this file, whether waveform data or not. Thus this field equates to the total number of lines of data in the file following the last line of header.

## 2.2 The tape header cards

These cards are only present for those files which were originally non-BKNRW format master tape files.

### 2.2.1 The HDR1 card (80 characters)

The HDR1 card format:

Columns	Format	Description
1-4	A4	Always 'HDR1'
5-16	A12	Origin of the data, either: 'BKNSTDATCENT' for internal use at Blacknest 'BSSPAA.BNST.' for use elsewhere
17-21	A5	(Original) data type, for instance 'BKNRW', 'SDAT', 'AD21', 'WBA'. This field may not necessarily match that in the user label. Use the user label data type in preference. See section 4 for more information.
22-27	A6	Original number of the master tape on which the file resides

32-35	A4	Original file number on master tape
43-44	I2	Last two digits of the year when the original tape file was created
45-47	I3	Day number of the year when the original tape file was created
61-80	A20	Comments (rarely used)

### 2.2.2 The HDR2 card (80 characters)

The HDR2 card format:

Columns	Format	Description
1-4	A4	Always 'HDR2'
6-10	I5	Number of bytes in each data record, e.g. 4012 for SDAT data, 4200 for AD21.
18-80	A63	Comments (rarely used)

### 2.2.3 The User Label (80 characters)

The user label format:

Columns	Format	Description
1-11	A11	Date of the event, in the form 'DD- <del>MM</del> -YYYY'
13-20	A8	Time of the event, in the form 'HH:MM:SS'
22-73	A52	Comment. The information here has no fixed format, although it is often as follows: cols 22-63: Epicentre and processing data cols 64-66: Event backbearing (I3) cols 68-71: Event speed (F4.1)
74-74	A1	One character station code, which should match the full station code given in the file card and also the station code given in the data
76-80	A5	(Original) data type, for instance 'BKNRW', 'SDAT', 'AD21', 'WBA'. This field may not necessarily match that in the HDR1 card. The field here should be used in preference.

## 2.3 The 'BKNAS' format header

See section 3.



## 2.4 The seismic data

The seismic data format, one line per time sample, is as follows:

Columns	Format	Description
1-1	A1	*One character station code, which should match the full station code given in the file card and also the station code given in the user label.
2-11	A10	*Date and time of the data sample, in the form 'YDDHHMMSS', where 'Y' is the year of decade
12-on	<n>I6	<n> data samples, one per channel. <n> is the number of channels in the data, given in the file card.

\* These fields are only present at the start of each original data block, and where the information exists in the original format (SDAT, DSASP, BSASP, SDLP, ADC4 and WBA, but not BKNRW, AD21, BAPPL, ADC1 or ADC2). Where the information is not present, the first eleven columns are left blank.

## 3. The BKNAS Header Format

The BKNAS format is the Blacknest raw, edited data format. A maximum of 32 channels can be written into one file. The header consists of 400 by 80 character lines, a total of 32000 bytes in all.

### IMPORTANT POINT

-----  
The line containing the BKNAS information is NOT part of this header. However, some of the information is repeated in the header for use.  
-----

The line formats are as follows:

LINE NUMBERS	CONTENTS
1-7	Array name, array alias, start time, etc.

- 8 The tape and file numbers of the first master tape to store this file.
- 11-25 A copy of the APPLE controlling file (c...stn.dat) can be written here if the data has already been processed.
- 29-92 Up to 64 lines (2 per channel) containing channel information.
- 93 onwards A listing of the poles and zeros for each different instrument number used in recording the digital data followed by blanks to line 400. The format is the instrument number, number of poles, number of zeros, constant and units on the first line followed by the poles (1 line each) followed by the zeros (1 line each). Normally there should be only 1 or 2 instrument numbers for a file of digital data.

### 3.1 Line formats in detail

All character data are left justified in their fields, all numeric data are right justified. The header initially contains blanks. The value stored in a field if no data are supplied are indicated by "NULL = " e.g NULL = blanks or NULL = -999.0. Some fields are now redundant and have not been described here.

-----  
 LINE 1  
 -----

CHAR	FMT	FIELD NAME	DESCRIPTION
1-5	A5	Array ID code	Identification code of the array Always present
6-10	A5	Array ID code	2nd identification code of the array Used for the 'home' arrays such as EKA, GBA, WRA, YKA, BKN, WOL, FLK, etc Also used to alias IMS codes to ISC codes
11-14	A4	Analogue data array name	Identification code for an analogue array NULL = blanks
15-17		'LAT'	
18-25	F8.4	Station	Units = degrees      NULL = -99.0000

		latitude	
26-29		'LONG'	
30-38	F9.4	Station longitude	Units = degrees      NULL = -999.0000
39-43	I5	Height	Height of station      NULL = blanks
44		'M'	Units = metres
46-48	A3	Current header version	This field is always present Currently = 5.0
50	A1	Start time accurate	Due to technical considerations when digitizing analogue data, the start time given is not the actual start time All analogue data is flagged 'N' However, for digital data the start time is the actual start time and flagged 'Y' except in the circumstance of a digital time error when it is flagged as 'N' Always present (Field repeated at LINE 6, Col.1)

51-80          Blank

-----  
LINE 2  
-----

CHAR	FMT	FIELD NAME	DESCRIPTION
-----	-----	-----	-----
1-8	A8	Event code	Agency, event number, or other code
9-10		'Mb'	
11-13	F3.1	Magnitude	Body wave magnitude      NULL = blanks
15-17		'LAT'	
18-25	F8.4	Epicentre latitude	Units = degrees      NULL = -99.0000
26-29		'LONG'	
30-38	F9.4	Epicentre longitude	Units = degrees      NULL = -999.0000
39-42	I4	Depth	Depth of event      NULL = blanks
43-44		'KM'	Units = kilometres
45-48	I4	Flinn-Engdahl	From 1995 'F-E Code' standard

geographic  
region number

49-80 A32 Flinn-Engdahl Name of the location of the event  
geographic  
region name

-----  
LINE 3  
-----

CHAR	FMT	FIELD NAME	DESCRIPTION
1-11	A11	Event date	Date the event in the form dd-mon-yyyy
14-15		'OT'	
17-28	A12	Origin time	Origin time of event (GMT) in the form hh:mm:ss.tt NULL = blanks
30-31	A2	Code of onset	'AT' = Arrival time as picked by the seismic analyst 'PT' = Picked time as chosen by the data processor 'ET' = Estimated time because either the event not seen or a problem with the time code NULL = blanks
33-44	A12	Start time	Start time of event (GMT) in the form hh:mm:ss.tt NULL = blanks
47-54	A8	Phase	Phase of event NULL = blanks
55-80		Blank	

-----  
LINE 4  
-----

CHAR	FMT	FIELD NAME	DESCRIPTION
1	A1	Event type	Type of event detected NULL = blank C=Mine explosion E=Chemical explosion I=Collapse explosion M=Meteoritic explosion N=Nuclear explosion

Q=Earthquake  
R=Rockburst  
X=Explosion

2	A1	Effect	Event effect      NULL = blank C = Casualties D = Damage F = Felt H = Heard T = Tsunami
1-2	A2	Identifier	Field can be used for other identifiers NULL = blanks
5-7	'BAZ'		
8-14	F7.2	Back bearing	Units = degrees      NULL = 999.00 Back bearing is defined as the CLOCKWISE angle from the station to the event
17-19	'VEL'		
20-25	F6.1	Velocity	Units = Km/second      NULL = 999.0
28-30	'SLN'		
31-36	F6.3	Slowness	Units = Second/degree      NULL = 99.000
39-43	'DELTA'		
44-50	F7.2	Angular distance	Units = degrees      NULL = 999.00 This is the angle between the event epicentre and the detecting station
51-80		Blank	

-----  
LINE 5  
-----

CHAR	FMT	FIELD NAME	DESCRIPTION
-----	-----	-----	-----
1-20	A20	Start time	Start time of the data in the form dd-mmm-yyyy hh:mm:ss      NULL = blanks
21-40	A20	End time	End time of the data in the form dd-mmm-yyyy hh:mm:ss      NULL = blanks
41-48	I8	Total number of data samples	Number of channels * sample rate (Hz) * Number of minutes of data * 60 (in theory) Will vary slightly for analogue data

Always present

49-50	I2	Number of data channels	Number of channels of data Always present
51-63		Digitising Offset	Offset time of samples from true digitising rate Usually blank when zero is assumed Units = Seconds
64-80		Comments	Usually blank but may contain information taken from a digitised analogue tape

-----  
LINE 6  
-----

CHAR	FMT	FIELD NAME	DESCRIPTION
1	A1	Start time accurate	Due to technical considerations when digitizing analogue data, the start time given is not the actual start time All analogue data is flagged 'N' However, for digital data the start time is the actual start time and flagged 'Y' except in the circumstance of a digital time error when it is flagged as 'N' Always present (Field repeated from LINE 1, Col.50)
2-9	A8	Raw data type	Denotes whether the original recording system was ANALOGUE or DIGITAL Always present
10-29	A20	Original storage media	The media the data were ORIGINALLY recorded Possible values are: ANALOGUE TAPE DIGITAL TAPE DIGITAL EXABYTE AUTODRM Always present
30-40	A11	Processing date	Date the data were edited from raw tape in the form dd-mon-yyyy Always present
41-80		Blank	

-----  
LINE 7  
-----

CHAR	FMT	FIELD NAME	DESCRIPTION
1-80	A80	Comment	Any user comment NULL = blanks For old-style digitised analogue and digital tape this field is a copy of the user label

-----  
LINE 8  
-----

CHAR	FMT	FIELD NAME	DESCRIPTION
1-6	I6	Original tape number	First tape the data were written
8-10	I3	Original file number	Number of file on this tape
11-80		Blank	

-----  
LINES 11-27  
-----

A copy of the APPLE controlling file used to generate the BKNAS header and data can be inserted here up to 16 lines  
For a description of this file see either the APPLE subroutine INPUT1 or the read.me file associated with the data

-----  
LINES 29-92  
-----

-----  
FORMAT OF THE 2 LINES REQUIRED FOR EACH CHANNEL DIGITIZED OR EXTRACTED  
-----  
-----

CHANNEL LINE 1

-----

CHAR	FMT	FIELD NAME	DESCRIPTION
1-5	I5	Channel number	Channel number on the raw data tape digitized or extracted Always present
6-11	A6	Pit code	ID of the pit associated with this channel NULL = blank
12-14		'LAT'	
16-24	F9.5	Pit latitude	Units = degrees      NULL = -99.00000
25-28		'LONG'	
30-39	F10.5	Pit longitude	Units = degrees      NULL = -999.00000
40		'M'	
41-47	F7.1	Pit elevation	Units = meters      NULL = -999.0
48		'X'	
49-56	F8.3	X coord. pit displacement	Units = km, measured from the centre of the array      NULL = -999.000
57		'Y'	
58-65	F8.3	Y coord. pit displacement	Units = km, measured from the centre of the array      NULL = -999.000
66-70	F5.1	Sample rate	Sample rate of the data in samples per second (Hz) Always present
71	A1	Channel sense	`+' indicates POSITIVE DIGITS or POSITIVE VOLTAGE = GROUND MOTION UP/NORTH/EAST `-' indicates POSITIVE DIGITS OR POSITIVE VOLTAGE = GROUND MOTION DOWN/SOUTH/WEST Always present
72-80		Blank	

-----  
CHANNEL LINE 2  
-----

CHAR	FMT	FIELD NAME	DESCRIPTION
------	-----	------------	-------------



1-40	A40	Seismometer name	Type of seismometer in the pit NULL = blanks
41-44	A4	Seismometer output recorded	The last letter indicates seismometer orientation NULL = blanks
50-52	I3	Instrument number	Instrument number used to record a channel NULL = INST 999
53-62	A10	Instrument code	Type of data recorded on the raw data channel NULL = blanks
63-70	F8.5	Sensitivity factor	Number by which each sampled value is multiplied by to obtain the corresponding ground motion in nanometres This is always a positive number and present The sense of the data comes from the channel sense flag in the previous line Units = nm/bit NULL = 1.00000
71-80		Blank	

-----  
 LINES 93 onwards  
 -----

FORMAT OF THE POLES AND ZEROS SECTION

-----  
 POLES and ZEROS LINE 1  
 -----

CHAR	FMT	FIELD NAME	DESCRIPTION
6-8	I3	Instrument number	Instrument number used to record a channel
9-11	I3	Number of poles	
12-14	I3	Number of zeros	
15-29	E15.4	Poles/zeros constant	NULL = 0.0000E+00

30-61	A32	Units of constant	NULL = blanks
62-68	F7.3	Calibration reference	Period in seconds at which sensitivity factor (above) is valid      NULL = 1.000
70-71	I2	Number of sets of poles/zeros	If no poles/zeros are inserted this field is set to zero If there are poles and zeros to insert this field is filled only in the first line of the first pole/zero set
72-80		Blank	

-----  
 LINE LISTING A POLE OR ZERO  
 -----

Poles are listed first followed by zeros  
 The poles and zeros are stored as real numbers WITHOUT exponents

CHAR	FMT	FIELD NAME	DESCRIPTION
1-16	E16.*	X coordinate	X coordinate of a pole or zero
17-32	E16.*	Y coordinate	Y coordinate of a pole or zero
33-80		Blank	

-----  
 Blank lines follow to line 400  
 -----

N.B. Section 4 is not yet available.

MURUROA AND FANGATAUFA TEST SITES NUCLEAR EXPLOSIONS DETAILS (BLACKNEST)

Version Date - 28th September 2004

FTSP numbers from "Catalog of Worldwide Nuclear Testing" by V.N. Mikhailov Begell-Atom, LLC (1999).

Note: Only a selection of the atmospheric nuclear tests are listed but all the known underground nuclear tests are included.

Ref: "P Seismograms from Explosions in the S Pacific Recorded at Four Arrays" by Douglas et. al. Report No. 02/95.

02/07/66FTSP0762ATMOS 2-JUL-1966 1534

-----  
 1534 e21.90S138.96W 39A01631 JUL02 196600020766  
 YKA NO TAPE NOT PROCESSED NO RECORD  
 WRA NO TAPE NOT PROCESSED NO RECORD  
 GBA NO TAPE NOT PROCESSED NO RECORD  
 EKA NO TAPE NOT PROCESSED NO RECORD  
 Aldebaran - Mururoa First Test - Yield 28kt - N.B. NOT used

24/09/66FTSP0775ATMOS 24-SEP-1966 1700

-----  
 1700 e22.18S139.08W 39FB1631 AUG24 1966000240966  
 YKA NO TAPE NOT PROCESSED NO RECORD  
 WRA NO TAPE NOT PROCESSED NO RECORD  
 GBA NO TAPE NOT PROCESSED NO RECORD  
 EKA NO TAPE NOT PROCESSED NO RECORD  
 Rigel - Fangataufa Boosting Principle Test - Yield 125kt - N.B. NOT used

04/10/66FTSP0778ATMOS 4-OCT-1966 2100

-----  
 2100 e21.90S138.96W 39A06631 OCT04 1966000041066  
 YKA NO TAPE NOT PROCESSED NO RECORD  
 WRA NO TAPE NOT PROCESSED NO RECORD  
 GBA NO TAPE NOT PROCESSED NO RECORD  
 EKA NO TAPE NOT PROCESSED NO RECORD  
 Sirius - Mururoa - Yield 205kt - N.B. NOT used

15/07/68FTSP0899ATMOS 15-JUL-1968 1900

-----  
 1900 e21.90S138.96W 39A11631 JUL15 1968000150768  
 YKA AD21 231605/043 PROCESSED P SEEN GLITCHES  
 WRA NO TAPE NOT PROCESSED NO RECORD  
 GBA NO TAPE NOT PROCESSED NO RECORD  
 EKA NO TAPE NOT PROCESSED NO RECORD  
 !Castor - Mururoa Air Burst - Yield 450kt

24/08/68FTSP0906ATMOS 24-AUG-1968 1830

-----  
 1829586 22.18S139.08W 50 39F01631 AUG24ISC1910217240868  
 YKA NO TAPE NOT PROCESSED NO RECORD

WRA NO TAPE NOT PROCESSED NO RECORD  
GBA NO TAPE NOT PROCESSED NO RECORD  
EKA NO TAPE NOT PROCESSED NO RECORD  
Canopus - Fangataufa Air Burst - Yield 2600kt - N.B. NOT used

08/09/68FTSP0911ATMOS 8-SEP-1968 1900

-----  
1859594 21.835139.05W 47 39A14631 SEP08ISC1910764080968  
YKA AD21 231605/044 PROCESSED P SEEN (ESTIMATED TIME)  
WRA AD21 231605/046 PROCESSED P SEEN NOTE LATER ARRIVAL  
GBA AD21 231605/045 PROCESSED PKP SEEN  
EKA NO TAPE NOT PROCESSED RECORD EXISTS  
!Procyon - Mururoa Air Burst - Yield 1280kt

14/05/70FTSP1031ATMOS 15-MAY-1970 1800

-----  
1800 e21.905138.96W 39A15631 MAY15 1970000150570  
YKA NO TAPE NOT PROCESSED NO RECORD  
WRA NO TAPE NOT PROCESSED RECORD EXISTS  
GBA NO TAPE NOT PROCESSED RECORD EXISTS  
EKA NO TAPE NOT PROCESSED NO RECORD  
Andromede - Mururoa Air Burst - Yield 13kt - N.B. NOT used

22/05/70FTSP1034ATMOS 22-MAY-1970 1830

-----  
1830 e21.905138.96W 39A16631 MAY22 1970000220570  
YKA NO TAPE NOT PROCESSED NO RECORD  
WRA NO TAPE NOT PROCESSED RECORD EXISTS  
GBA NO TAPE NOT PROCESSED RECORD EXISTS  
EKA NO TAPE NOT PROCESSED NO RECORD  
Cassiopee - Mururoa Air Burst - Yield 224kt - N.B. NOT used

30/05/70FTSP1040ATMOS 30-MAY-1970 1800

-----  
1759589 22.165138.84W 45 39F02631 MAY30ISC1905538300570  
YKA AD21 231922/017 PROCESSED P SEEN GLITCHES  
WRA NO TAPE NOT PROCESSED RECORD EXISTS  
GBA AD21 231922/019 NOT PROCESSED NO USABLE CHANNELS  
EKA AD21 231922/016 PKP NOT PROCESSED  
!Dragon - Fangatuafa Air Burst - Yield 945kt

24/06/70FTSP1041ATMOS 24-JUN-1970 1830

-----  
1830 e21.905138.96W 39A18631 JUN24 1970000240670  
YKA AD21 231922/056 NOT PROCESSED P NOT SEEN (TIME UNREADABLE)  
WRA AD21 231922/058 PROCESSED P NOT SEEN  
GBA AD21 231922/057 NOT PROCESSED WRONG TIME WINDOW  
EKA AD21 231922/055 PKP NOT PROCESSED  
!Eridan - Mururoa Air Burst - Yield 12kt - N.B. NOT used

03/07/70FTSP1046ATMOS 3-JUL-1970 1830

-----  
1830 e21.905138.96W 39A19631 JUL03 1970000030770  
YKA AD21 231922/024 PROCESSED P SEEN GLITCHES  
WRA AD21 231922/026 PROCESSED P SEEN SMALL

GBA AD21 231922/025 PROCESSED PKP SEEN SMALL  
EKA AD21 231922/023 PKP NOT PROCESSED

!Licorne - Mururoa Air Burst - Yield 914kt

02/08/70FTSP1050ATMOS 2-AUG-1970 1900

-----  
1900 e21.18S139.08W 39F03631 AUG02 1970000020870  
YKA NO TAPE NOT PROCESSED NO RECORD  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA NO TAPE NOT PROCESSED NO RECORD  
EKA NO TAPE NOT PROCESSED NO RECORD  
Orion - Fangataufa Air Burst - Yield 72kt - N.B. NOT used

06/08/70FTSP1051ATMOS 6-AUG-1970 1900

-----  
1900 e21.90S138.96W 39A22631 AUG06 1970000060870  
YKA NO TAPE NOT PROCESSED RECORD EXISTS  
WRA NO TAPE NOT PROCESSED RECORD EXISTS  
GBA NO TAPE NOT PROCESSED NO RECORD  
EKA NO TAPE NOT PROCESSED NO RECORD  
Toucan - Mururoa Air Burst - Yield 594kt - N.B. NOT used

12/06/71FTSP1080ATMOS 12-JUN-1971 1915

-----  
1915 e21.90S138.96W 39A24631 JUN12 1971000120671  
YKA AD21 231610/006 PROCESSED P SEEN GLITCHES NOTE LATER EVENT  
WRA AD21 231610/008 PROCESSED P SEEN SMALL  
GBA AD21 231610/007 PROCESSED PKP NOT SEEN  
EKA AD21 231610/005 PKP NOT PROCESSED  
!Encelade - Mururoa Air Burst - Yield 440kt

14/08/71FTSP1099ATMOS 14-AUG-1971 1900

-----  
1859592 21.88S139.00W 47 39A27631 AUG14ISC1907465140871  
YKA AD21 231610/020 PROCESSED P SEEN  
WRA AD21 231610/022 PROCESSED P SEEN SMALL  
GBA AD21 231610/021 PROCESSED PKP SEEN SMALL  
EKA AD21 231610/015 PKP NOT PROCESSED  
!Rhea - Mururoa Air Burst - Yield 955kt

21/07/73FTSP1201ATMOS 21-JUL-1973 1800

-----  
1800 e21.90S138.96W 39A32631 JUL21 1973000210773  
YKA AD21 231994/029 PROCESSED P NOT SEEN  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA AD21 231994/030 PROCESSED PKP NOT SEEN  
EKA AD21 231994/028 PKP NOT PROCESSED  
!Euterpe - Mururoa Air Burst - Yield 11kt - N.B. NOT used

07/07/74FTSP1249ATMOS 7-JUL-1974 2315

-----  
2315 e21.90S138.96W 39A40631 JUL07 1974000070774  
YKA AD21 231989/012 PROCESSED P SEEN SMALL  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA AD21 231989/013 PROCESSED PKP NOT SEEN

EKA AD21 231989/011 PKP NOT PROCESSED  
!Gemeaux - Mururoa Air Burst - Yield 150kt

15/08/74FTSP1260ATMOS 15-AUG-1974 0030

-----  
0030 e21.90S138.96W 39A44631 AUG15 1974000150874  
YKA AD21 231989/033 PROCESSED P NOT SEEN  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA AD21 231989/034 PROCESSED PKP NOT SEEN  
EKA AD21 231989/032 PKP NOT PROCESSED  
!Scorpion - Mururoa Air Burst - Yield 96kt - N.B. NOT used

24/08/74FTSP1261ATMOS 24-AUG-1974 2345

-----  
2345 e21.90S138.96W 39A45631 AUG24 1974000240874  
YKA AD21 231989/036 PROCESSED P NOT SEEN  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA AD21 231989/037 PROCESSED PKP NOT SEEN  
EKA AD21 231989/035 PKP NOT PROCESSED  
!Taureau - Mururoa Air Burst - Yield 14kt - N.B. NOT used

14/09/74FTSP1266ATMOS 14-SEP-1974 2330

-----  
2330 e21.90S138.96W 39A46631 SEP14 1974000140974  
YKA AD21 231989/043 PROCESSED P SEEN SMALL  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA AD21 231989/044 PROCESSED PKP NOT SEEN  
EKA AD21 231989/042 PKP NOT PROCESSED  
!Verseau - Last Mururoa Air Burst - Yield 332kt

05/06/75FTSP1299FANGATAUFA 5-JUN-1975 1815

-----  
1815 e22.23S138.74W 39F04631 JUN05 1975000050675  
YKA AD21 231953/008 231812/071 PROCESSED P SEEN GLITCHES  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA AD21 231965/043 231812/072 PROCESSED PKP NOT SEEN  
EKA AD21 231965/011 231812/095 PROCESSED PKP NOT DETECTED  
!Achille - Fangataufa

26/11/75FTSP1323FANGATAUFA 26-NOV-1975 0048

-----  
0048 e22.23S138.74W 39F05631 NOV26 1975000261175  
YKA AD21 231908/034 PROCESSED P SEEN  
WRA AD21 231613/083 PROCESSED P SEEN SMALL GLITCHES (ESTIMATED  
TIME)  
GBA AD21 231908/035 PROCESSED PKP SEEN  
EKA AD21 231908/033 231812/096 PROCESSED PKP NOT DETECTED  
!Hector - Fangataufa

03/04/76FTSP1341MURUROA 3-APR-1976 1707

-----  
1707 e21.90S138.96W 39000631 APR03 1976000030476  
YKA NO TAPE NOT PROCESSED NO RECORD  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA NO TAPE NOT PROCESSED NO RECORD

EKA NO TAPE NOT PROCESSED NO RECORD  
Patrocle - N.B. NOT used in AWE Report No. 0 2/95

11/07/76FTSP1350MURUROA 11-JUL-1976 0030

-----  
0029578 22.075138.72W 50 39004631 N 55JUL11ISC1908363110776  
YKA AD21 231613/087 PROCESSED P SEEN  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA AD21 231613/088 PROCESSED PKP SEEN SMALL (TIMING FAULT)  
EKA AD21 231613/086 PKP NOT PROCESSED  
!Menelas

30/10/76FTSP1364MURUROA 30-OCT-1976 2300

-----  
225959.e21.905138.96W 39000631 OCT30 1976000301076  
YKA NO TAPE NOT PROCESSED NO RECORD  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA NO TAPE NOT PROCESSED NO RECORD  
EKA NO TAPE NOT PROCESSED NO RECORD  
Ulysse\_A - N.B. NOT used in AWE Report No. 0 2/95

05/12/76FTSP1370MURUROA 5-DEC-1976 2300

-----  
2300 e21.905138.96W 39000631 DEC05 1976000051276  
YKA NO TAPE NOT PROCESSED NO RECORD  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA NO TAPE NOT PROCESSED NO RECORD  
EKA NO TAPE NOT PROCESSED NO RECORD  
Astyanax - N.B. NOT used in AWE Report No. 0 2/95

19/02/77FTSP1379MURUROA 19-FEB-1977 2330

-----  
2329577 22.145138.72W 52 39006631 N 65FEB19ISC1901889190277  
YKA AD21 231613/091 PROCESSED P SEEN  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA NO TAPE NOT PROCESSED NO RECORD  
EKA AD21 231613/089 PROCESSED PKP DETECTED  
!Ulysse\_B

19/03/77FTSP1381MURUROA 19-MAR-1977 2301

-----  
2300584 21.895138.96W 58 39007631 N222MAR19ISC1903049190377  
YKA AD21 231613/124 PROCESSED P SEEN OVERLOADED  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA AD21 231613/094 PROCESSED PKP SEEN NO RED LINE  
EKA AD21 231613/127 231812/130 PROCESSED PKP DETECTED  
!Nestor

02/04/77FTSP1384MURUROA 2-APR-1977 2330

-----  
2330 e21.905138.96W 39000631 APR02 1976000020477  
YKA NO TAPE NOT PROCESSED NO RECORD  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA NO TAPE NOT PROCESSED NO RECORD  
EKA NO TAPE NOT PROCESSED NO RECORD

Oedipe - N.B. NOT used in AWE Report No. 0 2/95

06/07/77FTSP1393MURUROA 6-JUL-1977 2300

-----  
2259552 22.385139.01W 52 39009631 N 36JUL06ISC1907786060777  
YKA AD21 231613/077 PROCESSED P SEEN  
WRA SDAT 231613/081 PROCESSED P SEEN SMALL COMPLEX  
GBA AD21 231613/078 PROCESSED PKP SEEN  
EKA AD21 231613/076 PROCESSED PKP NOT DETECTED  
!Ajax

12/11/77FTSP1422MURUROA 12-NOV-1977 0130

-----  
0130 e21.905138.96W 39010631 NOV12 1977000121177  
YKA AD21 231902/017 231812/098 PROCESSED P SEEN  
WRA NOT AVAILABLE NOT PROCESSED NOT AVAILABLE  
GBA AD21 231901/036 231808/029 PROCESSED PKP SEEN SMALL  
EKA NO TAPE NOT PROCESSED NO RECORD  
!Oreste

24/11/77FTSP1424MURUROA 24-NOV-1977 1700

-----  
1659586 21.865138.94W 60 39011631 N161NOV24ISC1914104241177  
YKA NOT AVAILABLE NOT PROCESSED NOT AVAILABLE  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA AD21 231613/095 PROCESSED PKP SEEN GLITCHES  
EKA AD21 231613/093 PROCESSED PKP DETECTED  
!Enee

17/12/77FTSP1429MURUROA 17-DEC-1977 2200

-----  
2200 e21.905138.96W 39012631 DEC17 1977000171277  
YKA NOT AVAILABLE NOT PROCESSED NOT AVAILABLE  
WRA NOT AVAILABLE NOT PROCESSED NOT AVAILABLE  
GBA AD21 231901/041 231808/030 PROCESSED PKP SEEN SMALL  
EKA AD21 231902/030 PKP NOT PROCESSED  
!Laocoon

27/02/78FTSP1434MURUROA 27-FEB-1978 2300

-----  
2300 e21.905138.96W 39013631 FEB27 1978000270278  
YKA AD21 231613/074 PROCESSED P SEEN SMALL  
WRA SDAT 231613/014 PROCESSED P NOT SEEN  
GBA AD21 231613/011 PROCESSED PKP NOT SEEN  
EKA AD21 231903/001 PKP NOT PROCESSED  
!Polypheme

22/03/78FTSP1438MURUROA 22-MAR-1978 1730

-----  
1729580 21.955138.74W 48 39014631 N 16MAR22ISC1903412220378  
YKA AD21 231613/075 PROCESSED P SEEN  
WRA AD21 231613/129 PROCESSED P SEEN SMALL  
GBA AD21 231613/012 PROCESSED PKP SEEN SMALL  
EKA AD21 231613/069 PKP NOT PROCESSED  
!Pylade



25/03/78FTSP1441MURUROA 25-MAR-1978 1730

-----  
1730 e21.90S138.96W 39000631 MAR25 1978000250378  
YKA NO TAPE NOT PROCESSED BAD TAPE  
WRA AD21 231679/031 PROCESSED P NOT SEEN  
GBA NO TAPE NOT PROCESSED NO RECORD  
EKA NO TAPE NOT PROCESSED NO RECORD  
!Hecube - N.B. NOT used in AWE Report No. 0 2/95

01/07/78FTSP1453MURUROA 1-JUL-1978 1700

-----  
1700 e21.90S138.96W 39000631 JUL01 1978000010778  
YKA 231679/033 PROCESSED P NOT SEEN  
WRA 231679/032 PROCESSED P NOT SEEN  
GBA NO TAPE NOT PROCESSED NO RECORD  
EKA NO TAPE NOT PROCESSED NO RECORD  
!Xanthos - N.B. NOT used in AWE Report No. 0 2/95

19/07/78FTSP1457MURUROA 19-JUL-1978 1800

-----  
1800 e21.90S138.96W 39015631 JUL19 1978000190778  
YKA AD21 231613/072 PROCESSED P SEEN  
WRA SDAT 231613/017 PROCESSED P SEEN SMALL  
GBA AD21 231613/015 PROCESSED PKP NOT SEEN  
EKA AD21 231613/070 PKP NOT PROCESSED  
!Ares

26/07/78FTSP1458MURUROA 26-JUL-1978 2300

-----  
2300 e21.90S138.96W 39016631 JUL26 1978000260778  
YKA AD21 231613/073 PROCESSED P SEEN SMALL  
WRA SDAT 231613/018 PROCESSED P NOT SEEN  
GBA AD21 231613/016 PROCESSED PKP NOT SEEN  
EKA AD21 231613/071 PKP NOT PROCESSED  
!Idomenee

02/11/78FTSP1482MURUROA 2-NOV-1978 1800

-----  
1800 e21.90S138.96W 39017631 NOV02 1978000021178  
YKA AD21 231912/022 231812/099 PROCESSED P SEEN  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA AD21 231912/067 231812/101 PROCESSED PKP SEEN SMALL  
EKA AD21 231912/061 231812/100 PKP NOT PROCESSED  
!Schedios

30/11/78FTSP1489MURUROA 30-NOV-1978 1732

-----  
1731586 21.85S139.00W 58 39018631 N220NOV30ISC1915166301178  
YKA AD21 231613/013 PROCESSED P SEEN OVERLOADED  
WRA SDAT 231613/001 PROCESSED P SEEN  
GBA AD21 231613/060 231812/103 PROCESSED PKP SEEN  
EKA AD21 231613/019 PROCESSED PKP DETECTED  
!Priam

17/12/78FTSP1494MURUROA 17-DEC-1978 1804

-----  
1804 e21.90S138.96W 39019631 DEC17 1978000171278  
YKA AD21 231613/020 PROCESSED P SEEN  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA AD21 231613/065 PROCESSED PKP SEEN  
EKA AD21 231613/058 PKP NOT PROCESSED  
!Eteocle

19/12/78FTSP1496MURUROA 19-DEC-1978 1657

-----  
1656595 21.87S138.94W 49 39020631 N 43DEC19ISC1916164191278  
YKA AD21 231613/021 PROCESSED P SEEN  
WRA SDAT 231613/002 PROCESSED P SEEN SMALL COMPLEX  
GBA AD21 231613/066 PROCESSED PKP SEEN SMALL  
EKA AD21 231613/059 PKP NOT PROCESSED  
!Eumee

01/03/79FTSP1506MURUROA 1-MAR-1979 1724

-----  
1724 e21.90S138.96W 39021631 MAR01 1979000010379  
YKA AD21 231913/033 231812/104 PROCESSED P SEEN  
WRA SDAT 231646/014 231808/014 PROCESSED P SEEN SMALL  
GBA AD21 231914/021 231812/109 PROCESSED PKP SEEN SMALL  
EKA AD21 231913/048 PKP NOT PROCESSED  
!Penthesilee

09/03/79FTSP1507MURUROA 9-MAR-1979 1637

-----  
1637 e21.90S138.96W 39022631 MAR09 1979000090379  
YKA AD21 231613/061 PROCESSED P SEEN  
WRA SDAT 231613/004 PROCESSED P SEEN SMALL COMPLEX  
GBA SDAT 231646/018 231808/018 PROCESSED PKP SEEN SMALL  
EKA AD21 231613/063 PKP NOT PROCESSED  
!Philoctete

24/03/79FTSP1510MURUROA 24-MAR-1979 1628

-----  
1627586 21.88S139.04W 49 39023631 N 58MAR24ISC1903996240379  
YKA AD21 231613/062 PROCESSED P SEEN  
WRA SDAT 231613/085 PROCESSED P SEEN SMALL COMPLEX  
GBA SDAT 231613/028 PROCESSED PKP SEEN SMALL  
EKA AD21 231613/064 PKP NOT PROCESSED  
!Agapenor

04/04/79FTSP1511MURUROA 4-APR-1979 1807

-----  
1806582 22.08S138.63W 47 39024631 N 23APR04ISC1904466040479  
YKA AD21 231914/009 231812/107 PROCESSED P SEEN  
WRA NOT AVAILABLE NOT PROCESSED NOT AVAILABLE  
GBA AD21 231915/007 231812/110 PROCESSED PKP NOT SEEN  
EKA AD21 231914/010 231812/108 PKP NOT PROCESSED  
!Polydore

18/06/79FTSP1518MURUROA 18-JUN-1979 2327

-----  
2326583 22.065138.64W 47 39025631 N 21JUN18ISC1908477180679  
YKA AD21 231913/069 231812/105 PROCESSED P SEEN  
WRA SDAT 231646/015 231808/015 PROCESSED P SEEN SMALL  
GBA AD21 231915/013 231812/111 PROCESSED PKP SEEN SMALL  
EKA NOT AVAILABLE NOT PROCESSED NOT AVAILABLE  
!Pyrrhos

29/06/79FTSP1522MURUROA 29-JUN-1979 1856

-----  
1855589 21.815138.98W 54 39026631 N 66JUN29ISC1909042290679  
YKA AD21 231613/067 PROCESSED P SEEN  
WRA SDAT 231613/005 PROCESSED P SEEN  
GBA AD21 231613/029 PROCESSED PKP SEEN SMALL NOISY  
EKA AD21 231613/031 PROCESSED PKP NOT DETECTED  
!Egisthe

25/07/79FTSP1527MURUROA 25-JUL-1979 1757

-----  
1756585 21.865139.00W 60 39027631 N318JUL25ISC1910292250779  
YKA AD21 231646/032 231808/031 PROCESSED P SEEN OVERLOADED  
YKB AD21 231646/032 VBB 231808/031 PROCESSED P SEEN LARGE SP FROM VBB  
WRA SDAT 231613/110 PROCESSED P SEEN LARGE  
GBA SDAT 231613/116 PROCESSED PKP SEEN  
EKA AD21 231613/096 PROCESSED PKP DETECTED  
!Tydee

28/07/79FTSP1528MURUROA 28-JUL-1979 1956

-----  
1955587 21.815138.89W 44 39028631 N 27JUL28ISC1910431280779  
YKA AD21 231913/088 231812/106 PROCESSED P SEEN  
WRA SDAT 231646/001 231808/001 PROCESSED P SEEN SMALL  
GBA SDAT 231915/017 231808/019 PROCESSED PKP SEEN SMALL GLITCHES  
EKA NOT AVAILABLE NOT PROCESSED NOT AVAILABLE  
!Palamede

19/11/79FTSP1549MURUROA 19-NOV-1979 1753

-----  
1753 e21.905138.96W 39000631 NOV19 1979000191179  
YKA NO TAPE NOT PROCESSED NO RECORD  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA NO TAPE NOT PROCESSED NO RECORD  
EKA NO TAPE NOT PROCESSED NO RECORD  
Chrysothemis - N.B. NOT used in AWE Report No. 0 2/95

22/11/79FTSP1550MURUROA 22-NOV-1979 1914

-----  
191431.e21.905138.96W 39029631 NOV22 1979000221179  
YKA AD21 231613/084 PROCESSED P SEEN  
WRA SDAT 231613/030 PROCESSED P SEEN SMALL GLITCHES  
GBA AD21 231613/032 PROCESSED PKP SEEN SMALL  
EKA NOT AVAILABLE NOT PROCESSED NOT AVAILABLE  
!Atree

23/02/80FTSP1557MURUROA 23-FEB-1980 1803

-----  
1803 e21.905138.96W 39030631 FEB23 1980000230280  
YKA AD21 231613/033 PROCESSED P SEEN  
WRA SDAT 231613/043 PROCESSED P SEEN SMALL  
GBA SDAT 231613/041 PROCESSED PKP SEEN SMALL  
EKA NOT AVAILABLE NOT PROCESSED NOT AVAILABLE  
!Thyeste

03/03/80FTSP1559MURUROA 3-MAR-1980 1756

-----  
1756 e21.905138.96W 39031631 MAR03 1980000030380  
YKA AD21 231613/034 PROCESSED P SEEN  
WRA SDAT 231613/044 PROCESSED P SEEN SMALL  
GBA SDAT 231613/042 PROCESSED PKP SEEN SMALL  
EKA AD21 231613/037 PKP NOT PROCESSED  
!Adraste

23/03/80FTSP1562MURUROA 23-MAR-1980 1937

-----  
1936585 21.865138.97W 57 39032631 N153MAR23ISC1904436230380  
YKA AD21 231613/035 PROCESSED P SEEN LARGE  
WRA SDAT 231613/006 PROCESSED P SEEN  
GBA SDAT 231613/117 PROCESSED PKP SEEN  
EKA AD21 231613/038 PROCESSED PKP DETECTED  
!Thesee

01/04/80FTSP1563MURUROA 1-APR-1980 1931

-----  
1930590 21.775138.88W 51 39033631 N 65APR01ISC1904960010480  
YKA AD21 231613/036 PROCESSED P SEEN  
WRA SDAT 231613/007 PROCESSED P SEEN  
GBA SDAT 231613/118 PROCESSED PKP SEEN  
EKA AD21 231613/039 PKP NOT PROCESSED  
!Boros

04/04/80FTSP1566MURUROA 4-APR-1980 1833

-----  
1832578 22.125138.66W 45 39034631 N 15APR04ISC1905099040480  
YKA AD21 231613/040 PROCESSED P SEEN  
WRA AD21 231613/052 PROCESSED P NOT SEEN  
GBA SDAT 231646/020 231808/020 PROCESSED PKP SEEN SMALL GLITCHES  
EKA NOT AVAILABLE NOT PROCESSED NOT AVAILABLE  
!Pelops

16/06/80FTSP1577MURUROA 16-JUN-1980 1827

-----  
1826588 21.835139.00W 54 39035631 N 81JUN16ISC1909655160680  
YKA AD21 231613/126 PROCESSED P SEEN  
WRA SDAT 231613/008 PROCESSED P SEEN  
GBA NO TAPE NOT PROCESSED NO RECORD  
EKA AD21 231613/053 PROCESSED PKP DETECTED  
!EurypyLe

21/06/80FTSP1578MURUROA 21-JUN-1980 1701

-----  
 1701 e21.905138.96W 39036631 JUN21 198000210680  
 YKA AD21 231613/046 PROCESSED P SEEN  
 WRA SDAT 231613/057 PROCESSED P SEEN SMALL  
 GBA AD21 231613/023 PROCESSED PKP SEEN SMALL  
 EKA AD21 231613/054 PKP NOT PROCESSED  
 !Ilus

06/07/80FTSP1583MURUROA 6-JUL-1980 1727  
 -----

1726591 21.755139.00W 46 39037631 N 17JUL06ISC1911263060780  
 YKA AD21 231613/051 PROCESSED P SEEN  
 WRA SDAT 231613/009 PROCESSED P SEEN SMALL  
 GBA AD21 231613/024 PROCESSED PKP SEEN SMALL NOISY  
 EKA AD21 231613/055 PKP NOT PROCESSED  
 !Chryses

19/07/80FTSP1585MURUROA 19-JUL-1980 2347  
 -----

2346585 21.865139.00W 58 39038631 N184JUL19ISC1912103190780  
 YKA NO TAPE PROCESSED P SEEN LARGE VBB ONLY  
 YKB ADC2 231613/125 VBB PROCESSED P SEEN LARGE SP FROM VBB  
 WRA SDAT 231613/010 PROCESSED P SEEN COMPLEX  
 GBA SDAT 231646/029 231808/028 PROCESSED PKP SEEN  
 EKA AD21 231916/080 231812/113 PROCESSED PKP DETECTED  
 !Asios

25/11/80FTSP1602MURUROA 25-NOV-1980 1753  
 -----

1753 e21.905138.96W 39039631 NOV25 198000251180  
 YKA AD21 231916/050 231812/074 PROCESSED P NOT SEEN  
 WRA SDAT 231613/022 PROCESSED P NOT SEEN  
 GBA SDAT 231613/025 PROCESSED PKP NOT SEEN  
 EKA AD21 231613/056 PKP NOT PROCESSED  
 !Laerte - N.B. NOT used in AWE Report No. 0 2/95

03/12/80FTSP1603MURUROA 3-DEC-1980 1733  
 -----

1732583 21.875138.96W 56 39040631 N146DEC03ISC1918902031280  
 YKA NO TAPE NOT PROCESSED NO RECORD  
 WRA SDAT 231613/111 PROCESSED P SEEN COMPLEX  
 GBA SDAT 231613/121 PROCESSED PKP SEEN  
 EKA AD21 231613/097 PROCESSED PKP NOT DETECTED  
 !Diomede

27/02/81FTSP1614MURUROA 27-FEB-1981 2328  
 -----

2328 e21.905138.96W 39041631 FEB27 198100270281  
 YKA AD21 231916/034 231812/073 PROCESSED P SEEN  
 WRA SDAT 231642/072 231812/097 PROCESSED P SEEN SMALL  
 GBA SDAT 231646/022 231808/021 PROCESSED PKP SEEN SMALL GLITCHES  
 EKA AD21 231916/055 PKP NOT PROCESSED  
 !Broteas

06/03/81FTSP1615MURUROA 6-MAR-1981 1727

-----  
1727 e21.905138.96W 39042631 MAR06 198100060381  
YKA AD21 231613/048 PROCESSED P SEEN  
WRA SDAT 231613/027 PROCESSED P SEEN SMALL  
GBA SDAT 231613/026 PROCESSED PKP SEEN SMALL  
EKA AD21 231613/050 PKP NOT PROCESSED  
!Tyro

28/03/81FTSP1617MURUROA 28-MAR-1981 1723  
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1722597 21.675138.84W 47 39043631 N 35MAR28ISC1904265280381  
YKA AD21 231613/098 PROCESSED P SEEN  
WRA SDAT 231613/112 PROCESSED P SEEN SMALL  
GBA SDAT 231613/101 PROCESSED PKP SEEN SMALL  
EKA AD21 231916/053 PKP NOT PROCESSED  
!Iphicles

10/04/81FTSP1619MURUROA 10-APR-1981 1757  
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1756593 21.775138.86W 48 39044631 N 27APR10ISC1904864100481  
YKA AD21 231917/013 231812/115 PROCESSED P SEEN  
WRA SDAT 231646/002 231808/002 PROCESSED P SEEN SMALL  
GBA SDAT 231917/076 231812/119 PROCESSED PKP SEEN SMALL  
EKA AD21 231916/091 231812/114 PKP NOT PROCESSED  
!Clymene - Lagoon

08/07/81FTSP1628MURUROA 8-JUL-1981 2223  
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2222574 22.185138.73W 53 39045631 N 70JUL08ISC1909252080781  
YKA AD21 231613/100 PROCESSED P SEEN  
WRA SDAT 231613/113 PROCESSED P SEEN COMPLEX  
GBA SDAT 231613/106 PROCESSED PKP SEEN SMALL  
EKA AD21 231613/099 PROCESSED PKP NOT DETECTED GLITCHES  
!Lyncee

11/07/81FTSP1630MURUROA 11-JUL-1981 1717  
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1717 e21.905138.96W 39046631 JUL11 1981000110781  
YKA AD21 231917/067 231812/116 PROCESSED P SEEN SMALL  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA SDAT 231918/083 231812/125 PROCESSED PKP NOT SEEN  
EKA AD21 231917/071 231812/117 PKP NOT PROCESSED  
!Eryx

18/07/81FTSP1633MURUROA 18-JUL-1981 1743  
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1743 e21.905138.96W 39047631 JUL18 1981000180781  
YKA AD21 231917/077 231812/120 PROCESSED P SEEN  
WRA SDAT 231918/031 231812/121 PROCESSED P SEEN SMALL  
GBA SDAT 231918/084 231812/126 PROCESSED PKP NOT SEEN  
EKA AD21 231917/072 231812/118 PKP NOT PROCESSED  
!Theras

03/08/81FTSP1634MURUROA 3-AUG-1981 1833  
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1832584 21.895138.88W 53 39048631 N 89AUG03ISC1910692030881  
YKA AD21 231613/102 PROCESSED P SEEN  
WRA SDAT 231613/114 PROCESSED P SEEN COMPLEX SHORT RUNIN  
GBA SDAT 231613/107 PROCESSED PKP SEEN SMALL  
EKA AD21 231613/103 PROCESSED PKP NOT DETECTED SHORT RECORD  
!Agenor

06/11/81FTSP1649MURUROA 6-NOV-1981 1703

-----  
1703 e21.905138.96W 39049631 NOV06 1981000061181  
YKA AD21 231918/058 231812/123 PROCESSED P NOT SEEN  
WRA SDAT 231918/091 231812/127 PROCESSED P NOT SEEN  
GBA SDAT 231918/092 231812/128 PROCESSED PKP NOT SEEN  
EKA NOT AVAILABLE NOT PROCESSED NOT AVAILABLE  
!Leto - N.B. NOT used in AWE Report No. 0 2/95

11/11/81FTSP1651MURUROA 11-NOV-1981 1707

-----  
1706587 21.855139.09W 45 39050631 N 25NOV11ISC1915480111181  
YKA AD21 231646/033 231808/032 PROCESSED P SEEN  
WRA SDAT 231646/003 231808/003 PROCESSED P SEEN SMALL COMPLEX  
GBA SDAT 231646/023 231808/022 PROCESSED PKP SEEN SMALL  
EKA NOT AVAILABLE NOT PROCESSED NOT AVAILABLE  
!ProcLes

05/12/81FTSP1656MURUROA 5-DEC-1981 1658

-----  
1658009 21.355139.40W 46 39051631 N 17DEC05ISC1916479051281  
YKA AD21 231918/065 231812/124 PROCESSED P SEEN  
WRA SDAT 231646/004 231808/004 PROCESSED P SEEN SMALL  
GBA SDAT 231918/094 231812/129 PROCESSED PKP SEEN SMALL  
EKA AD21 231918/050 231812/122 PKP NOT PROCESSED  
!Cilix

08/12/81FTSP1657MURUROA 8-DEC-1981 1647

-----  
1646583 21.915138.88W 52 39052631 N 73DEC08ISC1916601081281  
YKA AD21 231613/105 PROCESSED P SEEN  
WRA SDAT 231613/115 PROCESSED P SEEN  
GBA SDAT 231613/122 PROCESSED PKP SEEN  
EKA AD21 231613/104 PROCESSED PKP NOT DETECTED  
!Cadmos - Lagoon

20/02/82FTSP1665MURUROA 20-FEB-1982 1733

-----  
1733 e21.905138.96W 39053631 FEB20 1982000200282  
YKA AD21 231918/095 231870/080 PROCESSED P SEEN SMALL  
WRA SDAT 231920/038 231870/001 PROCESSED P NOT SEEN  
GBA SDAT 231920/041 231870/003 PROCESSED PKP NOT SEEN  
EKA AD21 231918/096 231870/081 PKP NOT PROCESSED  
!Aerope

24/02/82FTSP1666MURUROA 24-FEB-1982 1815

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1815 e21.905138.96W 39054631 FEB24 1982000240282

YKA AD21 231920/064 231870/010 PROCESSED P SEEN SMALL  
WRA SDAT 231920/063 231870/009 PROCESSED P SEEN SMALL  
GBA SDAT 231920/069 231870/013 PROCESSED PKP SEEN SMALL  
EKA AD21 231920/066 231870/011 PKP NOT PROCESSED  
!Deiphobe

20/03/82FTSP1667MURUROA 20-MAR-1982 1703

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1702586 21.865139.04W 49 39055631 N 50MAR20ISC1904159200382  
YKA AD21 231646/034 231808/033 PROCESSED P SEEN  
WRA SDAT 231920/039 231870/002 PROCESSED P SEEN SMALL  
GBA SDAT 231920/048 231870/004 PROCESSED PKP SEEN SMALL  
EKA AD21 231918/097 231870/082 PKP NOT PROCESSED  
!Rhesos - Lagoon

23/03/82FTSP1668MURUROA 23-MAR-1982 1707

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1707 e21.905138.96W 39000631 MAR23 1982000230382  
YKA NO TAPE NOT PROCESSED NO RECORD  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA NO TAPE NOT PROCESSED NO RECORD  
EKA NO TAPE NOT PROCESSED NO RECORD  
Evenos - N.B. NOT used in AWE Report No. 0 2/95

27/06/82FTSP1678MURUROA 27-JUN-1982 1700

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1700 e21.905138.96W 39056631 JUN27 1982000270682  
YKA AD21 231920/057 231870/007 PROCESSED P SEEN SMALL  
WRA SDAT 231920/085 231870/015 PROCESSED P NOT SEEN  
GBA SDAT 231927/061 231870/016 PROCESSED PKP NOT SEEN  
EKA AD21 231920/051 231870/005 PKP NOT PROCESSED  
!Laodice

01/07/82FTSP1679MURUROA 1-JUL-1982 1702

-----  
1701593 21.685139.07W 51 39057631 N 69JUL01ISC1910222010782  
YKA AD21 231920/060 231870/008 PROCESSED P SEEN  
WRA SDAT 231983/004 231870/083 PROCESSED P SEEN SMALL  
GBA SDAT 231927/063 231870/017 PROCESSED PKP SEEN SMALL  
EKA AD21 231920/053 231870/006 PKP NOT PROCESSED  
!Antilokos

21/07/82FTSP1681MURUROA 21-JUL-1982 1713

-----  
1713 e21.905138.96W 39000631 JUL21 1982000210782  
YKA NO TAPE NOT PROCESSED NO RECORD  
WRA 231928/025 PROCESSED P SEEN SMALL  
GBA 231928/024 PROCESSED PKP NOT SEEN  
EKA 231928/035 PKP NOT PROCESSED  
!Pitane - N.B. NOT used in AWE Report No. 0 2/95

25/07/82FTSP1682MURUROA 25-JUL-1982 1802

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1801584 21.775138.91W 57 39058631 N168JUL25ISC1911603250782  
YKA AD21 231920/079 231870/014 PROCESSED P SEEN LARGE



WRA NO TAPE NOT PROCESSED NO RECORD  
GBA SDAT 231929/029 231870/031 PROCESSED PKP SEEN  
EKA AD21 231920/068 231870/012 PROCESSED PKP DETECTED  
!Laios - Lagoon

27/11/82FTSP1705MURUROA 27-NOV-1982 1702

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1702 e21.90S138.96W 39000631 NOV27 1982000271182  
YKA NO TAPE NOT PROCESSED NO RECORD  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA NO TAPE NOT PROCESSED NO RECORD  
EKA NO TAPE NOT PROCESSED NO RECORD  
Procris - N.B. NOT used in AWE Report No. 0 2/95

19/04/83FTSP1717MURUROA 19-APR-1983 1853

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1852587 21.81S138.95W 56 39059631 N201APR19ISC1907779190483  
YKA AD21 231928/033 231870/022 PROCESSED P SEEN OVERLOADED  
YKB AD21 231928/033 VBB 231870/022 PROCESSED P SEEN LARGE SP FROM VBB  
WRA SDAT 231936/002 231870/032 PROCESSED P SEEN  
GBA SDAT 231936/011 231870/035 PROCESSED PKP SEEN  
EKA AD21 231928/048 231870/024 PROCESSED PKP DETECTED  
!Eurytos - Lagoon

25/04/83FTSP1719MURUROA 25-APR-1983 1733

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173259.e21.90S138.96W 39060631 APR25 1983000250483  
YKA AD21 231928/032 231870/021 PROCESSED P SEEN SMALL  
WRA SDAT 231936/003 231870/033 PROCESSED P NOT SEEN  
GBA SDAT 231936/013 231870/036 PROCESSED PKP NOT SEEN  
EKA AD21 231928/022 231870/018 PKP NOT PROCESSED  
!Automedon

25/05/83FTSP1722MURUROA 25-MAY-1983 1731

-----  
1730586 21.85S138.94W 59 39061631 N258MAY25ISC1910320250583  
YKA NO TAPE PROCESSED P SEEN LARGE VBB ONLY  
YKB ADC2 231928/077 VBB 231808/036 PROCESSED P SEEN LARGE SP FROM VBB  
WRA SDAT 231936/005 231870/034 PROCESSED P SEEN COMPLEX GLITCHES  
GBA SDAT 231939/008 231870/042 PROCESSED PKP SEEN  
EKA AD21 231928/078 231870/025 PROCESSED PKP DETECTED  
!Cinyras - Lagoon

18/06/83FTSP1728MURUROA 18-JUN-1983 1731

-----  
1731 e21.90S138.96W 39062631 JUN18 1983000180683  
YKA AD21 231928/081 231870/027 PROCESSED P SEEN SMALL  
WRA SDAT 231939/003 231870/090 PROCESSED P NOT SEEN  
GBA SDAT 231945/042 231870/048 PROCESSED PKP NOT SEEN  
EKA NOT AVAILABLE 231870/026 NOT PROCESSED NOT AVAILABLE  
!Buriis

28/06/83FTSP1730MURUROA 28-JUN-1983 1746

-----  
1745590 21.70S138.94W 54 39063631 N123JUN28ISC1912880280683

YKA AD21 231936/055 231870/039 PROCESSED P SEEN LARGE  
WRA SDAT 231939/004 231870/040 PROCESSED P SEEN  
GBA SDAT 231945/043 231870/049 PROCESSED PKP SEEN  
EKA AD21 231928/086 231870/028 PROCESSED PKP NOT DETECTED  
!Oxylos - Lagoon

20/07/83FTSP1734MURUROA 20-JUL-1983 2030

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2030 e21.905138.96W 39064631 JUL20 198300200783  
YKA AD21 231936/014 231870/037 PROCESSED P SEEN  
WRA SDAT 231939/005 231870/041 PROCESSED P SEEN SMALL  
GBA SDAT 231939/011 231870/043 PROCESSED PKP NOT SEEN  
EKA AD21 231928/095 231870/030 PKP NOT PROCESSED  
!Battos

04/08/83FTSP1736MURUROA 4-AUG-1983 1714

-----  
1713591 21.715138.89W 53 39065631 N 69AUG04ISC1915149040883  
YKA AD21 231936/016 231870/038 PROCESSED P SEEN  
WRA SDAT 231947/014 231870/050 PROCESSED P SEEN SMALL COMPLEX  
GBA SDAT 231947/027 231870/053 PROCESSED PKP SEEN SMALL  
EKA AD21 231928/088 231870/029 PROCESSED PKP NOT DETECTED  
!Carnabon - Lagoon

03/12/83FTSP1760MURUROA 3-DEC-1983 1658

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1658 e21.905138.96W 39066631 DEC03 1983000031283  
YKA AD21 231939/069 231870/044 PROCESSED P SEEN  
WRA SDAT 231947/019 231870/051 PROCESSED P SEEN SMALL  
GBA SDAT 231949/022 231870/062 PROCESSED PKP NOT SEEN  
EKA AD21 231945/006 231870/046 PKP NOT PROCESSED  
!Linos

07/12/83FTSP1761MURUROA 7-DEC-1983 1728

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1727567 22.345138.53W 50 39067631 N 35DEC07ISC1922530071283  
YKA AD21 231638/006 231808/037 PROCESSED P SEEN GLITCHES  
WRA SDAT 231638/009 231808/040 PROCESSED P SEEN SMALL COMPLEX  
GBA SDAT 231638/008 231808/039 PROCESSED PKP SEEN SMALL  
EKA AD21 231638/007 231808/038 PKP NOT PROCESSED  
!Gyges - Lagoon

08/05/84FTSP1776MURUROA 8-MAY-1984 1726

-----  
1726 e21.905138.96W 39068631 MAY08 1984000080584  
YKA AD21 231949/008 231870/055 PROCESSED P SEEN  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA SDAT 231646/024 231808/023 PROCESSED PKP SEEN SMALL  
EKA AD21 231949/016 231870/060 PKP NOT PROCESSED  
!Demophon

12/05/84FTSP1777MURUROA 12-MAY-1984 1731

-----  
1730586 21.835138.97W 57 39069631 N203MAY12ISC1908861120584  
YKA AD21 231949/021 231870/061 PROCESSED P SEEN NEAR OVERLOAD

WRA SDAT 231979/066 231870/072 PROCESSED P SEEN COMPLEX  
GBA SDAT 231949/029 231870/064 PROCESSED PKP SEEN GLITCHES  
EKA AD21 231949/014 231870/058 PROCESSED PKP DETECTED  
!Midas - Lagoon

12/06/84FTSP1781MURUROA 12-JUN-1984 1716

-----  
1716 e21.90S138.96W 39070631 JUN12 1984000120684  
YKA AD21 231949/010 231870/056 PROCESSED P SEEN  
WRA SDAT 231981/036 231870/076 PROCESSED P NOT SEEN  
GBA SDAT 231981/050 231870/077 PROCESSED PKP SEEN SMALL  
EKA AD21 231949/015 231870/059 PKP NOT PROCESSED  
!Aristee

16/06/84FTSP1782MURUROA 16-JUN-1984 1744

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1743585 21.85S139.00W 53 39071631 N117JUN16ISC1911098160684  
YKA AD21 231949/011 231870/057 PROCESSED P SEEN  
WRA SDAT 231983/005 231870/084 PROCESSED P SEEN COMPLEX  
GBA SDAT 231981/051 231870/078 PROCESSED PKP SEEN  
EKA NOT AVAILABLE NOT PROCESSED NOT AVAILABLE  
!Echemos - Lagoon

27/10/84FTSP1809MURUROA 27-OCT-1984 1716

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1716007 21.49S138.13W 45 39072631 N 90CT27ISC1921537271084  
YKA AD21 231949/092 231870/065 PROCESSED P SEEN  
WRA SDAT 231981/011 231870/074 PROCESSED P SEEN SMALL  
GBA SDAT 231981/057 231870/079 PROCESSED PKP SEEN SMALL GLITCHES  
EKA AD21 231979/006 231870/068 PKP NOT PROCESSED SHORT RUNIN  
!Machaon

02/11/84FTSP1810MURUROA 2-NOV-1984 2045

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2044587 21.87S139.00W 56 39073631 N204NOV02ISC1921940021184  
YKA AD21 231949/093 231870/066 PROCESSED P SEEN NEAR OVERLOAD  
YKB AD21 231949/093 VBB 231870/066 PROCESSED P SEEN LARGE SP FROM VBB  
WRA SDAT 231983/006 231870/085 PROCESSED P SEEN  
GBA SDAT 231981/001 231870/073 PROCESSED PKP SEEN GLITCHES  
EKA AD21 231979/007 231870/069 PROCESSED PKP DETECTED  
!Acaste - Lagoon

01/12/84FTSP1813MURUROA 1-DEC-1984 1651

-----  
1651 e21.90S138.96W 39074631 DEC01 1984000011284  
YKA AD21 231979/013 231870/071 PROCESSED P SEEN SMALL  
WRA SDAT 231983/007 231870/086 PROCESSED P NOT SEEN  
GBA SDAT 231983/009 231870/088 PROCESSED PKP NOT SEEN  
EKA AD21 231981/084 PKP NOT PROCESSED  
!Miletos

06/12/84FTSP1815MURUROA 6-DEC-1984 1729

-----  
1728589 21.81S138.93W 56 39075631 N212DEC06ISC1924401061284  
YKA AD21 231949/097 231870/067 PROCESSED P SEEN NEAR OVERLOAD

YKB AD21 231949/097 VBB 231870/067 PROCESSED P SEEN LARGE SP FROM VBB  
WRA SDAT 231981/013 231870/075 PROCESSED P SEEN COMPLEX  
GBA SDAT 231983/008 231870/087 PROCESSED PKP SEEN  
EKA AD21 231979/009 231870/070 PROCESSED PKP DETECTED  
!Memnon - Lagoon

30/04/85FTSP1828MURUROA 30-APR-1985 1729

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1728579 22.085138.90W 45 39076631 APR30ISC1909145300485  
YKA AD21 231981/033 231870/095 PROCESSED P SEEN CORRECTED  
WRA SDAT 231983/061 231870/108 PROCESSED P SEEN SMALL SHORT RUNIN  
GBA SDAT 231983/067 231870/102 PROCESSED PKP SEEN SMALL  
EKA AD21 231981/067 231870/096 PKP NOT PROCESSED  
!Cercyon

08/05/85FTSP1830MURUROA 8-MAY-1985 2028

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2027590 21.805139.06W 56 39077631 N247MAY08ISC1909813080585  
YKA AD21 231981/034 231812/131 PROCESSED P SEEN NEAR OVERLOAD CORRECTED  
YKB AD21 231981/034 VBB 231812/131 PROCESSED P SEEN LARGE SP FROM VBB  
WRA SDAT 231646/005 231808/005 PROCESSED P SEEN  
GBA SDAT 231984/061 231870/114 PROCESSED PKP SEEN GLITCHES  
EKA AD21 231981/068 231870/097 PROCESSED PKP DETECTED GLITCHES  
!Nisos - Lagoon

03/06/85FTSP1831MURUROA 3-JUN-1985 1730

-----  
1729596 21.665139.04W 51 39078631 N 38JUN03ISC1912075030685  
YKA AD21 231981/073 231870/099 PROCESSED P SEEN CORRECTED  
WRA SDAT 231983/062 231870/100 PROCESSED P SEEN SMALL  
GBA SDAT 231984/004 231870/103 PROCESSED PKP SEEN SMALL  
EKA AD21 231981/071 231870/098 PKP NOT PROCESSED  
!Talaos

07/06/85FTSP1832MURUROA 7-JUN-1985 1740

-----  
1740 e21.905138.96W 39079631 JUN07 1985000070685  
YKA AD21 231984/013 231870/104 PROCESSED P SEEN CORRECTED  
WRA SDAT 231983/063 231870/101 PROCESSED P SEEN SMALL  
GBA SDAT 231984/109 231870/115 PROCESSED PKP NOT SEEN  
EKA NOT AVAILABLE NOT PROCESSED NOT AVAILABLE  
!Erginos - Lagoon

24/10/85FTSP1851MURUROA 24-OCT-1985 1750

-----  
1750 e21.905138.96W 39080631 OCT24 1985000241085  
YKA AD21 231646/035 231808/034 PROCESSED P SEEN CORRECTED  
WRA SDAT 231646/006 231808/006 PROCESSED P NOT SEEN  
GBA SDAT 231646/025 231808/024 PROCESSED PKP SEEN SMALL GLITCHES  
EKA NO TAPE NOT PROCESSED NO RECORD  
!Hero

26/10/85FTSP1852MURUROA 26-OCT-1985 1635

-----  
1634588 21.815138.98W 53 39081631 N143OCT26ISC1923076261085

YKA AD21 231995/015 231870/124 PROCESSED P SEEN CORRECTED  
WRA SDAT 231646/016 231808/016 PROCESSED P SEEN COMPLEX  
GBA SDAT 231991/074 231870/120 PROCESSED PKP SEEN GLITCHES  
EKA AD21 231984/084 231870/109 PROCESSED PKP NOT DETECTED  
!Codros - Lagoon

24/11/85FTSP1854MURUROA 24-NOV-1985 1601

-----  
1600592 21.73S138.82W 47 39082631 N 40NOV24ISC1925273241185  
YKA AD21 231984/014 231870/105 PROCESSED P SEEN CORRECTED  
WRA SDAT 231646/007 231808/007 PROCESSED P SEEN SMALL  
GBA SDAT 231995/004 231870/122 PROCESSED PKP SEEN SMALL  
EKA AD21 231984/085 231870/110 PKP NOT PROCESSED  
!Zetes

26/11/85FTSP1855MURUROA 26-NOV-1985 1742

-----  
1741587 21.86S138.92W 59 39083631 N227NOV26ISC1925421261185  
YKA AD21 231984/015 231870/106 PROCESSED P SEEN OVERLOADED CORRECTED  
WRA SDAT 231646/008 231808/008 PROCESSED P SEEN COMPLEX  
GBA SDAT 231995/005 231870/123 PROCESSED PKP SEEN GLITCHES  
EKA AD21 231984/086 231870/111 PROCESSED PKP DETECTED  
!Megaree - Lagoon

26/04/86FTSP1862MURUROA 26-APR-1986 1702

-----  
1701566 22.15S139.12W 48 39084631 APR26ISC1909806260486  
YKA AD21 231995/017 231870/126 PROCESSED P SEEN CORRECTED  
WRA SDAT 231995/024 231870/128 PROCESSED P SEEN SMALL COMPLEX  
GBA SDAT 231646/026 231808/025 NOT PROCESSED ORIGINAL TAPE ERRORS  
EKA AD21 231995/016 231870/125 PKP NOT PROCESSED GLITCHES  
!Hyllos

06/05/86FTSP1863MURUROA 6-MAY-1986 1658

-----  
1658 e21.90S138.96W 39085631 MAY06 1986000060586  
YKA AD21 231991/052 231870/117 PROCESSED P SEEN CORRECTED  
WRA SDAT 231995/023 231870/127 PROCESSED P SEEN SMALL  
GBA SDAT 231646/027 231808/026 NOT PROCESSED ORIGINAL TAPE ERRORS  
EKA AD21 231991/055 231870/118 PROCESSED PKP DETECTED  
!Ceto

27/05/86FTSP1865MURUROA 27-MAY-1986 1715

-----  
1715 e21.90S138.96W 39086631 MAY27 1986000270586  
YKA AD21 231646/036 231808/035 PROCESSED P SEEN CORRECTED  
WRA SDAT 231646/009 231808/009 PROCESSED P SEEN SMALL  
GBA SDAT 231646/028 231808/027 PROCESSED PKP NOT SEEN  
EKA NO TAPE NOT PROCESSED NO RECORD  
!Sthenelos

30/05/86FTSP1866MURUROA 30-MAY-1986 1725

-----  
1724586 21.86S139.03W 56 39087631 N194MAY30ISC1912864300586  
YKA AD21 231991/077 231870/121 PROCESSED P SEEN NEAR OVERLOAD CORRECTED

YKB AD21 231991/077 VBB 231870/121 PROCESSED P SEEN LARGE SP FROM VBB  
WRA SDAT 231646/010 231808/010 PROCESSED P SEEN  
GBA SDAT 231995/090 231870/136 PROCESSED PKP SEEN GLITCHES  
EKA AD21 231991/056 231808/046 PROCESSED PKP DETECTED  
!Galatee - Lagoon

10/11/86FTSP1875MURUROA 10-NOV-1986 1658

-----  
1658 e21.90S138.96W 39088631 NOV10 1986000101186  
YKA NO TAPE NOT PROCESSED NO RECORD  
WRA SDAT 231646/011 231808/011 PROCESSED P SEEN SMALL  
GBA SDAT 231609/028 231812/010 PROCESSED PKP SEEN SMALL  
EKA AD21 231995/055 231870/129 NOT PROCESSED  
!Hesione - N.B. NOT used in AWE Report No. 0 2/95

12/11/86FTSP1876MURUROA 12-NOV-1986 1702

-----  
1701589 21.84S139.06W 52 39089631 N118NOV12ISC1925524121186  
YKA NO TAPE NOT PROCESSED NO RECORD  
WRA SDAT 231631/038 231812/002 PROCESSED P SEEN  
GBA SDAT 231609/029 231812/011 PROCESSED PKP SEEN SMALL  
EKA AD21 231995/056 231870/130 PROCESSED PKP NOT DETECTED  
!Nauplios - Lagoon

06/12/86FTSP1878MURUROA 6-DEC-1986 1710

-----  
1710 e21.90S138.96W 39090631 DEC06 1986000061286  
YKA AD21 231995/071 231870/133 PROCESSED P SEEN GLITCHES CORRECTED  
WRA SDAT 231646/012 231808/012 PROCESSED P SEEN SMALL  
GBA SDAT 231609/030 231812/012 PROCESSED PKP SEEN SMALL  
EKA AD21 231995/066 231870/131 PKP NOT PROCESSED  
!Peneleos

10/12/86FTSP1879MURUROA 10-DEC-1986 1715

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1714588 21.85S139.02W 51 39091631 N110DEC10ISC1928265101286  
YKA AD21 231995/072 231870/134 PROCESSED P SEEN CORRECTED  
WRA SDAT 231631/039 231812/003 PROCESSED P SEEN SMALL COMPLEX  
GBA SDAT 231609/031 231812/013 PROCESSED PKP SEEN SMALL  
EKA AD21 231995/067 231870/132 PROCESSED PKP DETECTED  
!Circe - Lagoon

05/05/87FTSP1894MURUROA 5-MAY-1987 1658

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1658005 21.58S138.72W 48 39092631 N 22MAY05ISC1909845050587  
YKA AD21 231609/015 231812/009 PROCESSED P SEEN  
WRA SDAT 231609/053 231812/014 PROCESSED P SEEN SMALL  
GBA SDAT 231620/029 231812/022 PROCESSED PKP SEEN SMALL GLITCHES  
EKA AD21 231995/118 231870/137 PKP NOT PROCESSED  
!Jocaste - Lagoon

20/05/87FTSP1896MURUROA 20-MAY-1987 1705

-----  
1704585 21.87S138.97W 56 39093631 N221MAY20ISC1911431200587  
YKA AD21 231609/014 231812/008 PROCESSED P SEEN NEAR OVERLOAD

YKB AD21 231609/014 VBB 231812/008 PROCESSED P SEEN LARGE SP FROM VBB  
WRA SDAT 231631/009 231870/138 PROCESSED P SEEN COMPLEX  
GBA SDAT 231620/034 231812/023 PROCESSED PKP SEEN  
EKA AD21 231926/107 231812/026 PROCESSED PKP DETECTED  
!Lycomede - Lagoon

06/06/87FTSP1899MURUROA 6-JUN-1987 1800

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1800008 21.555138.79W 47 39094631 N 20JUN06ISC1912612060687  
YKA AD21 231609/013 231812/007 PROCESSED P SEEN  
WRA SDAT 231631/012 231870/139 PROCESSED P SEEN SMALL  
GBA SDAT 231620/036 231812/024 PROCESSED PKP SEEN SMALL  
EKA AD21 231926/109 231812/027 PKP NOT PROCESSED  
!Dirce - Lagoon

21/06/87FTSP1903MURUROA 21-JUN-1987 1755

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1754579 22.085138.67W 51 39095631 N112JUN21ISC1913738210687  
YKA AD21 231609/010 231812/006 PROCESSED P SEEN  
WRA SDAT 231631/013 231870/140 PROCESSED P SEEN SMALL COMPLEX  
GBA SDAT 231620/043 231812/025 PROCESSED PKP SEEN  
EKA AD21 231926/112 231812/028 PROCESSED PKP DETECTED  
!Iphitos - Lagoon

23/10/87FTSP1918MURUROA 23-OCT-1987 1650

-----  
1649590 21.785139.05W 55 39096631 N195OCT23ISC1922708231087  
YKA AD21 231609/078 231812/019 PROCESSED P SEEN LARGE  
WRA SDAT 231633/007 231812/029 PROCESSED P SEEN COMPLEX  
GBA SDAT 231635/009 231812/037 PROCESSED PKP SEEN GLITCHES  
EKA AD21 231609/057 231808/017 PROCESSED PKP DETECTED GLITCHES  
!Helenos - Lagoon

05/11/87FTSP1919MURUROA 5-NOV-1987 1730

-----  
1729589 21.805138.95W 54 39097631 N180NOV05ISC1923627051187  
YKA AD21 231609/076 231812/018 PROCESSED P SEEN LARGE  
WRA SDAT 231633/032 231812/033 PROCESSED P SEEN  
GBA SDAT 231635/010 231812/038 PROCESSED PKP SEEN  
EKA AD21 231609/058 231812/015 PROCESSED PKP DETECTED  
!Pasiphae - Lagoon

19/11/87FTSP1921MURUROA 19-NOV-1987 1631

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1630587 21.865139.01W 58 39098631 N255NOV19ISC1924670191187  
YKA AD21 231620/018 231812/020 PROCESSED P SEEN NEAR OVERLOAD  
YKB AD21 231620/018 VBB 231812/020 PROCESSED P SEEN LARGE SP FROM VBB  
WRA SDAT 231633/031 231812/032 PROCESSED P SEEN  
GBA SDAT 231635/012 231812/039 PROCESSED PKP SEEN  
EKA AD21 231609/073 231812/017 PROCESSED PKP DETECTED  
!Pelee - Lagoon

29/11/87FTSP1922MURUROA 29-NOV-1987 1759

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1759 e21.905138.96W 39099631 NOV29 1987000291187

YKA AD21 231620/019 231812/021 PROCESSED P SEEN GLITCHES  
WRA SDAT 231633/033 231812/034 PROCESSED P SEEN SMALL  
GBA SDAT 231635/013 231812/040 PROCESSED PKP SEEN SMALL  
EKA AD21 231609/072 231812/016 PKP NOT PROCESSED  
!Danae - Lagoon

11/05/88FTSP1936MURUROA 11-MAY-1988 1700

-----  
1659591 21.795139.03W 54 39100631 N169MAY11ISC1910868110588  
YKA AD21 231633/048 231812/035 PROCESSED P SEEN LARGE  
WRA SDAT 231635/070 231812/047 PROCESSED P SEEN COMPLEX  
GBA SDAT 231635/079 231812/049 PROCESSED PKP SEEN  
EKA AD21 231633/022 231812/030 PROCESSED PKP NOT DETECTED  
!Nelee - Lagoon

25/05/88FTSP1939MURUROA 25-MAY-1988 1701

-----  
1700585 21.895138.96W 56 39101631 N181MAY25ISC1912166250588  
YKA AD21 231633/050 231812/036 PROCESSED P SEEN LARGE  
YKB AD21 231633/050 VBB 231812/036 PROCESSED P SEEN LARGE SP FROM VBB  
WRA SDAT 231635/073 231812/048 PROCESSED P SEEN  
GBA SDAT 231638/025 231812/054 PROCESSED PKP SEEN  
EKA AD21 231633/024 231808/043 PROCESSED PKP NOT DETECTED  
!Niobe - Lagoon

16/06/88FTSP1942MURUROA 16-JUN-1988 1715

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1715 e21.905138.96W 39102631 JUN16 1988000160688  
YKA AD21 231635/033 231812/041 PROCESSED P SEEN  
WRA SDAT 231646/013 231808/013 PROCESSED P SEEN SMALL  
GBA SDAT 231638/036 231812/055 PROCESSED PKP SEEN SMALL  
EKA AD21 231633/028 231812/031 PKP NOT PROCESSED  
!Antigone - Lagoon

23/06/88FTSP1945MURUROA 23-JUN-1988 1731

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1730591 21.835139.00W 53 39103631 N144JUN23ISC1914594230688  
YKA AD21 231635/035 231808/042 PROCESSED P SEEN LARGE  
WRA SDAT 231640/035 231808/045 PROCESSED P SEEN  
GBA SDAT 231638/030 231808/041 PROCESSED PKP SEEN  
EKA AD21 231633/052 231808/044 PROCESSED PKP NOT DETECTED  
!Dejanire - Lagoon

25/10/88FTSP1956MURUROA 25-OCT-1988 1700

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1700 e21.905138.96W 39104631 OCT25 1988000251088  
YKA AD21 231635/082 231812/050 PROCESSED P NOT SEEN  
WRA SDAT 231640/048 231812/064 PROCESSED P NOT SEEN  
GBA SDAT 231642/040 231812/068 PROCESSED PKP NOT SEEN  
EKA AD21 231635/048 231812/042 NOT PROCESSED  
!Acrisios - Lagoon - N.B. NOT used in AWE Report No. 0 2/95

05/11/88FTSP1957MURUROA 5-NOV-1988 1630

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1629588 21.815139.11W 55 39105631 N156NOV05ISC1928112051188



YKA AD21 231635/084 231812/051 PROCESSED P SEEN  
WRA SDAT 231640/050 231812/065 PROCESSED P SEEN  
GBA SDAT 231642/041 231812/069 PROCESSED PKP SEEN  
EKA AD21 231635/052 231812/043 PROCESSED PKP NOT DETECTED  
!Thrasymedes - Lagoon

23/11/88FTSP1961MURUROA 23-NOV-1988 1701

-----  
1700584 21.90S138.97W 54 39106631 N142NOV23ISC1929441231188  
YKA AD21 231635/088 231812/053 PROCESSED P SEEN LARGE  
WRA SDAT 231642/033 231812/066 PROCESSED P SEEN  
GBA NO TAPE NOT PROCESSED NO RECORD  
EKA AD21 231635/056 231812/045 PROCESSED PKP NOT DETECTED  
!Pheres - Lagoon

30/11/88FTSP1962FANGATAUFA 30-NOV-1988 1755

-----  
1754583 22.21S138.86W 55 39F06631 N213NOV30ISC1929994301188  
YKA AD21 231635/086 231812/052 PROCESSED P SEEN LARGE  
WRA SDAT 231642/034 231812/067 PROCESSED P SEEN  
GBA SDAT 231642/044 231812/070 PROCESSED PKP SEEN  
EKA AD21 231635/054 231812/044 PROCESSED PKP NOT DETECTED  
!Cycnos - Fangataufa - Lagoon

11/05/89FTSP1974MURUROA 11-MAY-1989 1645

-----  
1644593 21.72S139.09W 55 39108631 N 81MAY11ISC1911739110589  
YKA AD21 231640/025 231812/058 PROCESSED P SEEN  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA SDAT 231656/042 231808/047 PROCESSED PKP SEEN  
EKA SDAT 231640/020 231808/049 PROCESSED PKP NOT DETECTED  
!Epeios - Lagoon

20/05/89FTSP1976MURUROA 20-MAY-1989 1759

-----  
1759 e21.90S138.96W 39109631 MAY20 1989000200589  
YKA AD21 231640/026 231812/059 PROCESSED P SEEN  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA SDAT 231656/043 231808/048 PROCESSED PKP NOT SEEN  
EKA AD21 231640/023 231812/057 PKP NOT PROCESSED  
!Tecmessa - Lagoon

03/06/89FTSP1978MURUROA 3-JUN-1989 1730

-----  
1729588 21.77S139.07W 52 39110631 N120JUN03ISC1913840030689  
YKA AD21 231640/027 231812/060 PROCESSED P SEEN LARGE  
WRA SDAT 231646/053 231808/062 PROCESSED P SEEN COMPLEX  
GBA SDAT 231642/074 231808/055 PROCESSED PKP SEEN GLITCHES  
EKA SDAT 231640/030 231808/050 PROCESSED PKP NOT DETECTED  
!Nyctee - Lagoon

10/06/89FTSP1979FANGATAUFA 10-JUN-1989 1730

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1729582 22.26S138.72W 55 39F07631 N217JUN10ISC1914501100689  
YKA AD21 231640/028 231812/061 PROCESSED P SEEN LARGE

WRA SDAT 231646/054 231808/063 PROCESSED P SEEN  
GBA SDAT 231642/075 231808/056 PROCESSED PKP SEEN GLITCHES  
EKA SDAT 231640/031 231808/081 PROCESSED PKP NOT DETECTED  
!Cyzicos - Fangataufa - Lagoon

24/10/89FTSP1987MURUROA 24-OCT-1989 1630

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1629585 21.85S139.01W 54 39112631 N1650CT24ISC1927706241089  
YKA DIGIT 231674/004 PROCESSED P SEEN  
WRA SDAT 231646/062 231808/064 PROCESSED P SEEN COMPLEX  
GBA SDAT 231644/044 231808/057 PROCESSED PKP SEEN  
EKA SDAT 231642/050 231808/051 PROCESSED PKP DETECTED  
!Hypsipyle - Lagoon

31/10/89FTSP1989MURUROA 31-OCT-1989 1657

-----  
1656589 21.77S138.98W 52 39113631 N1590CT31ISC1928498311089  
YKA DIGIT 231674/003 PROCESSED P SEEN  
WRA SDAT 231646/064 231808/065 PROCESSED P SEEN  
GBA SDAT 231644/046 231808/058 PROCESSED PKP SEEN GLITCHES  
EKA SDAT 231642/065 231808/054 PROCESSED PKP NOT DETECTED  
!Erigone - Lagoon

20/11/89FTSP1991MURUROA 20-NOV-1989 1729

-----  
1728587 21.79S139.00W 53 39114631 N130NOV20ISC1930505201189  
YKA NO TAPE NOT PROCESSED NO RECORD  
WRA SDAT 231646/066 231808/066 PROCESSED P SEEN SMALL COMPLEX  
GBA SDAT 231644/048 231808/059 PROCESSED PKP SEEN  
EKA SDAT 231642/054 231808/052 PROCESSED PKP NOT DETECTED  
!Tros - Lagoon

27/11/89FTSP1993FANGATAUFA 27-NOV-1989 1700

-----  
1659582 22.25S138.87W 56 39F08631 N230NOV27ISC1931231271189  
YKA DIGIT 231674/002 PROCESSED P SEEN LARGE  
WRA NO TAPE NOT PROCESSED NO RECORD  
GBA SDAT 231644/049 231808/060 PROCESSED PKP SEEN  
EKA SDAT 231640/059 231808/053 PROCESSED PKP DETECTED  
!Lycos - Fangataufa - Lagoon

02/06/90FTSP1999MURUROA 2-JUN-1990 1730

-----  
1729590 21.82S138.94W 53 39116631 N161JUN02ISC1915106020690  
YKA DIGIT 231671/040 PROCESSED P SEEN  
WRA SDAT 231646/071 PROCESSED P SEEN  
GBA NO TAPE NOT PROCESSED NO RECORD  
EKA SDAT 231646/046 PROCESSED PKP DETECTED  
!Telephe - Lagoon

07/06/90FTSP2000MURUROA 7-JUN-1990 1730

-----  
1730 e21.90S138.96W 39117631 JUN07 1990000070690  
YKA DIGIT 231699/024 PROCESSED P SEEN NOISY  
WRA SDAT 231646/072 PROCESSED P SEEN SMALL

GBA SDAT 231653/003 PROCESSED PKP SEEN SMALL  
EKA SDAT 231644/028 PKP NOT PROCESSED  
!Megapenthes - Lagoon

26/06/90FTSP2003FANGATAUFA 26-JUN-1990 1800

-----  
1759584 22.20S138.84W 55 39F09631 N225JUN26ISC1917511260690  
YKA DIGIT 231671/039 PROCESSED P SEEN LARGE  
WRA SDAT 231646/074 PROCESSED P SEEN  
GBA SDAT 231653/006 PROCESSED PKP SEEN GLITCHES SHORT RECORD  
EKA SDAT 231655/018 PROCESSED PKP DETECTED  
!Cypselos - Fangataufa - Lagoon

04/07/90FTSP2004MURUROA 4-JUL-1990 1800

-----  
1759588 21.81S139.12W 49 39I19631 N 88JUL04ISC1918344040790  
YKA DIGIT 231671/041 PROCESSED P SEEN  
WRA SDAT 231646/075 PROCESSED P SEEN SMALL COMPLEX  
GBA SDAT 231653/011 PROCESSED PKP SEEN SMALL  
EKA SDAT 231655/019 PKP NOT PROCESSED  
!Anticlee - Lagoon

14/11/90FTSP2012FANGATAUFA 14-NOV-1990 1812

-----  
1811584 22.20S138.84W 56 39F10631 N233NOV14ISC1931776141190  
YKA DIGIT 231671/036 PROCESSED P SEEN LARGE  
WRA DIGIT 231666/016 PROCESSED P SEEN  
GBA SDAT 231656/019 PROCESSED PKP SEEN  
EKA SDAT 231647/012 PROCESSED PKP NOT DETECTED  
!Hyracos - Fangataufa - Lagoon

21/11/90FTSP2013MURUROA 21-NOV-1990 1700

-----  
1659584 21.90S138.98W 54 39I21631 N216NOV21ISC1932412211190  
YKA DIGIT 231671/038 PROCESSED P SEEN LARGE  
WRA DIGIT 231666/018 PROCESSED P SEEN SMALL  
GBA SDAT 231656/021 PROCESSED PKP SEEN  
EKA SDAT 231647/013 PROCESSED PKP NOT DETECTED  
!Thoas - Lagoon

07/05/91FTSP2017MURUROA 7-MAY-1991 1700

-----  
1700 e21.90S138.96W 39I22631 MAY07 1991000070591  
YKA DIGIT 231671/042 PROCESSED P SEEN SMALL  
WRA DIGIT 231666/021 PROCESSED P SEEN SMALL  
GBA SDAT 231656/026 PROCESSED PKP SEEN SMALL GLITCHES  
EKA SDAT 231653/033 PKP NOT PROCESSED  
!Melanippe - Lagoon

18/05/91FTSP2018MURUROA 18-MAY-1991 1715

-----  
1714587 21.80S139.03W 50 39I23631 N 88MAY18ISC1913985180591  
YKA DIGIT 231671/037 PROCESSED P SEEN  
WRA DIGIT 231666/022 PROCESSED P SEEN SMALL COMPLEX  
GBA SDAT 231656/025 PROCESSED PKP SEEN SMALL

EKA SDAT 231653/040  
!Alcinoos - Lagoon

PKP NOT PROCESSED

29/05/91FTSP2019FANGATAUFA 29-MAY-1991 1900

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1859584 22.235138.80W 55 39F11631 N254MAY29ISC1915121290591  
YKA DIGIT 231672/043 PROCESSED P SEEN LARGE  
WRA DIGIT 231666/023 PROCESSED P SEEN  
GBA SDAT 231656/027 PROCESSED PKP SEEN GLITCHES  
EKA SDAT 231653/035 PROCESSED PKP DETECTED  
!Periclymenos - Fangataufa - Lagoon

14/06/91FTSP2020MURUROA 14-JUN-1991 1800

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1759585 21.825139.10W 51 39125631 N140JUN14ISC1916729140691  
YKA NO TAPE NOT PROCESSED NO RECORD  
WRA DIGIT 231666/024 PROCESSED P SEEN SMALL COMPLEX  
GBA SDAT 231656/028 PROCESSED PKP SEEN GLITCHES  
EKA NO TAPE NOT PROCESSED NO RECORD  
!Pithee - Lagoon

05/07/91FTSP2021MURUROA 5-JUL-1991 1800

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1800 e21.905138.96W 39126631 JUL05 1991000050791  
YKA DIGIT 231672/042 PROCESSED P NOT SEEN  
WRA DIGIT 231666/025 PROCESSED P NOT SEEN  
GBA SDAT 231656/030 PROCESSED PKP NOT SEEN  
EKA SDAT 231658/010 PKP NOT PROCESSED  
!Coronis - Lagoon - N.B. NOT used

15/07/91FTSP2022MURUROA 15-JUL-1991 1810

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1809587 21.835138.97W 53 39127631 N182JUL15ISC1919936150791  
YKA DIGIT 231666/042 PROCESSED P SEEN LARGE  
WRA DIGIT 231666/026 PROCESSED P SEEN SMALL  
GBA SDAT 231656/029 PROCESSED PKP SEEN GLITCHES  
EKA SDAT 231658/011 PROCESSED PKP DETECTED  
!Lycurgue - Lagoon

05/09/95FTSP2042MURUROA 5-SEP-1995 2130

-----  
2129586 21.825138.87W 48 39128631 N111SEP05ISC1941377050995  
YKA DIGIT 231680/027 PROCESSED P SEEN  
WRA DIGIT 231688/036 PROCESSED P SEEN SMALL NOISY  
GBA NO TAPE NOT PROCESSED NO RECORD  
EKA DIGIT 231679/064 PKP NOT PROCESSED  
!Thetys - Lagoon

01/10/95FTSP2043FANGATAUFA 1-OCT-1995 2330

-----  
2329580 22.235138.78W 55 39F12631 N352OCT01ISC1945426011095  
YKA DIGIT 231680/028 PROCESSED P SEEN LARGE  
WRA DIGIT 231688/037 PROCESSED P SEEN  
GBA DIGIT 231688/016 PROCESSED PKP SEEN GLITCHES  
EKA DIGIT 231679/065 PROCESSED PKP DETECTED

!Ploutos - Fangataufa - Lagoon

27/10/95FTSP2044MURUROA 27-OCT-1995 2200

-----  
2159584 21.855138.95W 54 39130631 N3410CT27ISC1953922271095  
YKA DIGIT 231680/029 PROCESSED P SEEN LARGE  
WRA DIGIT 231688/038 PROCESSED P SEEN  
GBA DIGIT 231688/024 PROCESSED PKP SEEN  
EKA DIGIT 231680/018 PROCESSED PKP NOT DETECTED  
!Aepytos - Lagoon

21/11/95FTSP2045MURUROA 21-NOV-1995 2130

-----  
2129586 21.825139.06W 48 39131631 N146NOV21ISC1958583211195  
YKA DIGIT 231680/030 PROCESSED P SEEN  
WRA DIGIT 231688/039 PROCESSED P SEEN SMALL COMPLEX  
GBA DIGIT 231688/025 PROCESSED PKP SEEN SMALL  
EKA DIGIT 231680/019 PKP NOT PROCESSED  
!Phegee - Lagoon

27/12/95FTSP2046MURUROA 27-DEC-1995 2130

-----  
2129585 21.795139.04W 51 39132631 N177DEC27ISC1966396271295  
YKA DIGIT 231680/133 PROCESSED P SEEN  
WRA DIGIT 231688/040 PROCESSED P SEEN SMALL COMPLEX  
GBA DIGIT 231688/026 PROCESSED PKP SEEN GLITCHES  
EKA DIGIT 231680/025 PROCESSED PKP NOT DETECTED  
!Themisto - Lagoon

27/01/96FTSP2047FANGATAUFA 27-JAN-1996 2130

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2129582 22.165138.83W 52 39F13631 N328JAN27ISC1905137270196  
YKA DIGIT 231680/134 PROCESSED P SEEN  
WRA DIGIT 231688/041 PROCESSED P SEEN  
GBA DIGIT 231688/027 PROCESSED PKP SEEN  
EKA DIGIT 231680/108 PROCESSED PKP NOT DETECTED  
!Xouthos - Fangataufa - Lagoon

MURUROA EVENTS NOT USED BUT RECORDINGS EXIST

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24/06/70FTSP1041ATMOS 24-JUN-1970 1830  
21/07/73FTSP1201ATMOS 21-JUL-1973 1800  
07/07/74FTSP1249ATMOS 7-JUL-1974 2315  
15/08/74FTSP1260ATMOS 15-AUG-1974 0030  
24/08/74FTSP1261ATMOS 24-AUG-1974 2345  
01/07/78FTSP1453MURUROA 1-JUL-1978 1700  
25/11/80FTSP1602MURUROA 25-NOV-1980 1753  
06/11/81FTSP1649MURUROA 6-NOV-1981 1703  
21/07/82FTSP1681MURUROA 21-JUL-1982 1713  
10/11/86FTSP1875MURUROA 10-NOV-1986 1658  
25/10/88FTSP1956MURUROA 25-OCT-1988 1700  
05/07/91FTSP2021MURUROA 5-JUL-1991 1800

STATION ORDER WITHIN EVENTS

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YKA

YKB

WRA

GBA

EKA

Table 1  
Mururoa Explosions

Date	YKA	WRA	GBA	EKA	Mb(ISC)	M*(LIL)	M*(YKA)	Mb(PICK)
11/07/76	*	N	*	-	5.0	4.93	4.85	5.14
19/02/77	*	N	N	*	5.2	5.02	4.92	5.23
19/03/77	0	N	*	*	5.8	5.92	0.00	0.00
06/07/77	*	*	*	-	5.2	4.81	4.83	5.15
12/11/77	*	N	*	N	0.0	0.00	4.54	4.90
24/11/77	N	N	*	*	6.0	5.86	0.00	0.00
17/12/77	N	N	*	-	0.0	0.00	0.00	0.00
27/02/78	*	-	-	-	0.0	0.00	3.51	4.13
22/03/78	*	*	*	-	4.8	4.73	4.69	5.03
19/07/78	*	*	-	-	0.0	0.00	4.22	4.74
26/07/78	*	-	-	-	0.0	0.00	3.89	4.35
02/11/78	*	N	*	-	0.0	0.00	4.40	4.79
30/11/78	0	*	*	*	5.8	5.86	0.00	6.020
17/12/78	*	N	*	-	0.0	0.00	4.68	5.03
19/12/78	*	*	*	-	4.9	5.01	4.97	5.26
01/03/79	*	*	*	-	0.0	0.00	4.66	5.02
09/03/79	*	*	*	-	0.0	0.00	4.71	5.05
24/03/79	*	*	*	-	4.9	4.93	4.92	5.27
04/04/79	*	N	-	-	4.7	4.69	4.80	5.13
18/06/79	*	*	*	N	4.7	4.71	4.68	5.02
29/06/79	*	*	*	-	5.4	5.21	5.18	5.45
25/07/79	0+V	*	*	*	6.0	6.11	0.00	0.00
28/07/79	*	*	*	N	4.4	4.73	4.60	4.95
22/11/79	*	*	*	N	0.0	0.00	4.42	4.79
23/02/80	*	*	*	N	0.0	0.00	4.14	4.61
03/03/80	*	*	*	-	0.0	0.00	4.24	4.64
23/03/80	*	*	*	*	5.7	5.63	5.62	5.89
01/04/80	*	*	*	-	5.1	5.05	5.13	5.40
04/04/80	*	-	*	N	4.5	4.30	4.39	4.77
16/06/80	*	*	N	*	5.4	5.30	5.34	5.60
21/06/80	*	*	*	-	0.0	0.00	4.55	4.91
06/07/80	*	*	*	-	4.6	4.54	4.53	4.87
19/07/80	V	*	*	*	5.8	5.73	0.00	5.97V
03/12/80	N	*	*	-	5.6	5.58	0.00	0.00
27/02/81	*	*	*	-	0.0	0.00	4.22	4.67
06/03/81	*	*	*	-	0.0	0.00	4.33	4.75
28/03/81	*	*	*	-	4.7	4.75	4.72	5.03
10/04/81	*	*	*	-	4.8	4.76	4.80	5.13
08/07/81	*	*	*	-	5.3	5.14	5.10	5.38
11/07/81	*	N	-	-	0.0	0.00	3.89	4.34
18/07/81	*	*	-	-	0.0	0.00	4.23	4.69
03/08/81	*	*	*	-	5.3	5.09	5.14	5.38
11/11/81	*	*	*	N	4.5	4.71	4.77	5.12
05/12/81	*	*	*	-	4.6	4.68	4.61	4.94
08/12/81	*	*	*	-	5.2	5.14	4.96	5.34
20/02/82	*	-	-	-	0.0	0.00	3.60	4.22
24/02/82	*	*	*	-	0.0	0.00	3.61	4.29
20/03/82	*	*	*	-	4.9	4.96	4.99	5.30
27/06/82	*	-	-	-	0.0	0.00	3.77	4.22
01/07/82	*	*	*	-	5.1	5.08	5.13	5.41

25/07/82	*	N	*	*	5.7	5.60	5.60	5.80
19/04/83	0+V	*	*	*	5.6	5.70	5.65	5.860
25/04/83	*	-	-	-	0.0	0.00	3.25	0.00
25/05/83	V	*	*	*	5.9	5.87	0.00	5.97V
18/06/83	*	-	-	N	0.0	0.00	3.89	4.48
28/06/83	*	*	*	-	5.4	5.32	5.38	5.60
20/07/83	*	*	-	-	0.0	0.00	4.46	4.85
04/08/83	*	*	*	-	5.3	5.13	5.08	5.38
03/12/83	*	*	-	-	0.0	0.00	4.12	4.63
07/12/83	*	*	*	-	5.0	4.89	4.87	5.29
08/05/84	*	N	*	-	0.0	0.00	4.53	5.01
12/05/84	0	*	*	*	5.7	5.57	5.63	5.850
12/06/84	*	-	*	-	0.0	0.00	4.56	5.00
16/06/84	*	*	*	N	5.3	5.28	5.30	5.55
27/10/84	*	*	*	-	4.5	4.49	4.45	4.83
02/11/84	0+V	*	*	*	5.6	5.64	5.51	5.860
01/12/84	*	-	-	-	0.0	0.00	3.59	4.14
06/12/84	0+V	*	*	*	5.6	5.56	5.60	5.850
30/04/85	*	*	*	-	4.5	4.51	4.56	4.96
08/05/85	0+V	*	*	*	5.6	5.64	5.59	5.810
03/06/85	*	*	*	-	5.1	4.83	4.75	5.10
07/06/85	*	*	-	N	0.0	0.00	4.46	4.81
24/10/85	*	-	*	N	0.0	0.00	4.28	4.64
26/10/85	*	*	*	-	5.3	5.30	5.33	5.59
24/11/85	*	*	*	-	4.7	4.55	4.67	5.03
26/11/85	0	*	*	*	5.9	5.76	0.00	5.940
26/04/86	*	*	-	-	4.8	4.45	4.46	4.81
06/05/86	*	*	-	*	0.0	0.00	4.48	4.85
27/05/86	*	*	-	N	0.0	0.00	4.65	5.04
30/05/86	0+V	*	*	*	5.6	5.58	5.63	5.860
12/11/86	N	*	*	-	5.2	5.28	0.00	0.00
06/12/86	*	*	*	-	0.0	0.00	4.70	5.03
10/12/86	*	*	*	*	5.1	5.23	5.23	5.49
05/05/87	*	*	*	-	4.8	4.55	4.48	4.83
20/05/87	0+V	*	*	*	5.6	5.51	5.56	5.800
06/06/87	*	*	*	-	4.7	4.40	4.64	4.96
21/06/87	*	*	*	*	5.1	5.10	5.33	5.61
23/10/87	*	*	*	*	5.5	5.54	5.66	5.87
05/11/87	*	*	*	*	5.4	5.36	5.47	5.71
19/11/87	0+V	*	*	*	5.8	5.74	0.00	5.930
29/11/87	*	*	*	-	0.0	0.00	4.57	4.92
11/05/88	*	*	*	-	5.4	5.27	5.44	5.68
25/05/88	*	*	*	-	5.6	5.50	5.61	5.87
16/06/88	*	*	*	-	0.0	0.00	4.44	4.77
23/06/88	*	*	*	-	5.3	5.18	5.37	5.64
05/11/88	*	*	*	-	5.5	5.30	5.37	5.66
23/11/88	*	*	N	-	5.4	5.29	5.43	5.67
11/05/89	*	N	*	-	5.5	5.16	5.23	5.47
20/05/89	*	N	-	-	0.0	0.00	4.52	4.87
03/06/89	*	*	*	-	5.2	5.16	5.38	5.63
24/10/89	*	*	*	*	5.4	5.37	5.40	5.58
31/10/89	*	*	*	-	5.2	5.30	5.27	5.44
20/11/89	N	*	*	-	5.3	5.19	0.00	0.00
02/06/90	*	*	N	*	5.3	.	.	5.47
07/06/90	*	*	*	-	0.0	.	.	4.79



04/07/90	*	*	*	-	4.9	.	.	5.20
21/11/90	*	*	*	-	5.4	.	.	5.77
07/05/91	*	*	*	-	0.0	.	.	4.52
18/05/91	*	*	*	-	5.0	.	.	5.36
14/06/91	N	*	*	N	5.1	.	.	0.00
15/07/91	*	*	*	*	5.3	.	.	5.60
05/09/95	*	*	N	-	4.8	.	.	4.98
27/10/95	*	*	*	-	5.4	.	.	5.70
21/11/95	*	*	*	-	4.8	.	.	5.25
27/12/95	*	*	*	-	5.1	.	.	5.39

#### Fangataufa Explosions

Date	YKA	WRA	GBA	EKA	Mb(ISC)	M*(LIL)	M*(YKA)	Mb(PICK)
05/06/75	*	N	-	-	0.0	0.00	4.49	4.57
26/11/75	*	*	*	-	0.0	0.00	4.70	4.74
30/11/88	*	*	*	-	5.5	5.58	5.60	6.03
10/06/89	*	*	*	-	5.5	5.51	5.55	6.04
27/11/89	*	N	*	*	5.6	5.59	5.53	5.64
26/06/90	*	*	*	*	5.5	.	.	5.87
14/11/90	*	*	*	-	5.6	.	.	5.71
29/05/91	*	*	*	*	5.5	.	.	5.63
01/10/95	*	*	*	*	5.5	.	.	5.58
27/01/96	*	*	*	-	5.2	.	.	5.56

- \* Signal detected.
- Signal not detected or file not processed.
- N No record available.
- 0 Signal overloaded or near overload.
- V Signal extracted from broad-band record.

ln -fs ATMOS\_02-JUL-1966.1534 ../mururoa/1966/ATMOS\_1966-07-02.1534  
ln -fs ATMOS\_02-JUL-1966.1534 ../mururoa/1966/ATMOS\_660702.1534  
ln -fs ATMOS\_02-JUL-1966.1534 ../mururoa/1966/ATMOS\_660702  
ln -fs ATMOS\_02-JUL-1966.1534 ../mururoa/1966/660702  
ln -fs ATMOS\_24-SEP-1966.1700 ../mururoa/1966/ATMOS\_1966-09-24.1700  
ln -fs ATMOS\_24-SEP-1966.1700 ../mururoa/1966/ATMOS\_660924.1700  
ln -fs ATMOS\_24-SEP-1966.1700 ../mururoa/1966/ATMOS\_660924  
ln -fs ATMOS\_24-SEP-1966.1700 ../mururoa/1966/660924  
ln -fs ATMOS\_04-OCT-1966.2100 ../mururoa/1966/ATMOS\_1966-10-04.2100  
ln -fs ATMOS\_04-OCT-1966.2100 ../mururoa/1966/ATMOS\_661004.2100  
ln -fs ATMOS\_04-OCT-1966.2100 ../mururoa/1966/ATMOS\_661004  
ln -fs ATMOS\_04-OCT-1966.2100 ../mururoa/1966/661004  
ln -fs ATMOS\_15-JUL-1968.1900 ../mururoa/1968/ATMOS\_1968-07-15.1900  
ln -fs ATMOS\_15-JUL-1968.1900 ../mururoa/1968/ATMOS\_680715.1900  
ln -fs ATMOS\_15-JUL-1968.1900 ../mururoa/1968/ATMOS\_680715  
ln -fs ATMOS\_15-JUL-1968.1900 ../mururoa/1968/680715  
ln -fs ATMOS\_24-AUG-1968.1830 ../mururoa/1968/ATMOS\_1968-08-24.1830  
ln -fs ATMOS\_24-AUG-1968.1830 ../mururoa/1968/ATMOS\_680824.1830  
ln -fs ATMOS\_24-AUG-1968.1830 ../mururoa/1968/ATMOS\_680824  
ln -fs ATMOS\_24-AUG-1968.1830 ../mururoa/1968/680824  
ln -fs ATMOS\_08-SEP-1968.1900 ../mururoa/1968/ATMOS\_1968-09-08.1900  
ln -fs ATMOS\_08-SEP-1968.1900 ../mururoa/1968/ATMOS\_680908.1900  
ln -fs ATMOS\_08-SEP-1968.1900 ../mururoa/1968/ATMOS\_680908  
ln -fs ATMOS\_08-SEP-1968.1900 ../mururoa/1968/680908  
ln -fs ATMOS\_15-MAY-1970.1800 ../mururoa/1970/ATMOS\_1970-05-15.1800  
ln -fs ATMOS\_15-MAY-1970.1800 ../mururoa/1970/ATMOS\_700515.1800  
ln -fs ATMOS\_15-MAY-1970.1800 ../mururoa/1970/ATMOS\_700515  
ln -fs ATMOS\_15-MAY-1970.1800 ../mururoa/1970/700515  
ln -fs ATMOS\_22-MAY-1970.1830 ../mururoa/1970/ATMOS\_1970-05-22.1830  
ln -fs ATMOS\_22-MAY-1970.1830 ../mururoa/1970/ATMOS\_700522.1830  
ln -fs ATMOS\_22-MAY-1970.1830 ../mururoa/1970/ATMOS\_700522  
ln -fs ATMOS\_22-MAY-1970.1830 ../mururoa/1970/700522  
ln -fs ATMOS\_30-MAY-1970.1800 ../mururoa/1970/ATMOS\_1970-05-30.1800  
ln -fs ATMOS\_30-MAY-1970.1800 ../mururoa/1970/ATMOS\_700530.1800  
ln -fs ATMOS\_30-MAY-1970.1800 ../mururoa/1970/ATMOS\_700530  
ln -fs ATMOS\_30-MAY-1970.1800 ../mururoa/1970/700530  
ln -fs ATMOS\_24-JUN-1970.1830 ../mururoa/1970/ATMOS\_1970-06-24.1830  
ln -fs ATMOS\_24-JUN-1970.1830 ../mururoa/1970/ATMOS\_700624.1830  
ln -fs ATMOS\_24-JUN-1970.1830 ../mururoa/1970/ATMOS\_700624  
ln -fs ATMOS\_24-JUN-1970.1830 ../mururoa/1970/700624  
ln -fs ATMOS\_03-JUL-1970.1830 ../mururoa/1970/ATMOS\_1970-07-03.1830  
ln -fs ATMOS\_03-JUL-1970.1830 ../mururoa/1970/ATMOS\_700703.1830  
ln -fs ATMOS\_03-JUL-1970.1830 ../mururoa/1970/ATMOS\_700703  
ln -fs ATMOS\_03-JUL-1970.1830 ../mururoa/1970/700703  
ln -fs ATMOS\_02-AUG-1970.1900 ../mururoa/1970/ATMOS\_1970-08-02.1900  
ln -fs ATMOS\_02-AUG-1970.1900 ../mururoa/1970/ATMOS\_700802.1900  
ln -fs ATMOS\_02-AUG-1970.1900 ../mururoa/1970/ATMOS\_700802  
ln -fs ATMOS\_02-AUG-1970.1900 ../mururoa/1970/700802  
ln -fs ATMOS\_06-AUG-1970.1900 ../mururoa/1970/ATMOS\_1970-08-06.1900  
ln -fs ATMOS\_06-AUG-1970.1900 ../mururoa/1970/ATMOS\_700806.1900  
ln -fs ATMOS\_06-AUG-1970.1900 ../mururoa/1970/ATMOS\_700806  
ln -fs ATMOS\_06-AUG-1970.1900 ../mururoa/1970/700806

ln -fs ATMOS\_12-JUN-1971.1915 ../mururoa/1971/ATMOS\_1971-06-12.1915  
ln -fs ATMOS\_12-JUN-1971.1915 ../mururoa/1971/ATMOS\_710612.1915  
ln -fs ATMOS\_12-JUN-1971.1915 ../mururoa/1971/ATMOS\_710612  
ln -fs ATMOS\_12-JUN-1971.1915 ../mururoa/1971/710612  
ln -fs ATMOS\_14-AUG-1971.1900 ../mururoa/1971/ATMOS\_1971-08-14.1900  
ln -fs ATMOS\_14-AUG-1971.1900 ../mururoa/1971/ATMOS\_710814.1900  
ln -fs ATMOS\_14-AUG-1971.1900 ../mururoa/1971/ATMOS\_710814  
ln -fs ATMOS\_14-AUG-1971.1900 ../mururoa/1971/710814  
ln -fs ATMOS\_21-JUL-1973.1800 ../mururoa/1973/ATMOS\_1973-07-21.1800  
ln -fs ATMOS\_21-JUL-1973.1800 ../mururoa/1973/ATMOS\_730721.1800  
ln -fs ATMOS\_21-JUL-1973.1800 ../mururoa/1973/ATMOS\_730721  
ln -fs ATMOS\_21-JUL-1973.1800 ../mururoa/1973/730721  
ln -fs ATMOS\_07-JUL-1974.2315 ../mururoa/1974/ATMOS\_1974-07-07.2315  
ln -fs ATMOS\_07-JUL-1974.2315 ../mururoa/1974/ATMOS\_740707.2315  
ln -fs ATMOS\_07-JUL-1974.2315 ../mururoa/1974/ATMOS\_740707  
ln -fs ATMOS\_07-JUL-1974.2315 ../mururoa/1974/740707  
ln -fs ATMOS\_15-AUG-1974.0030 ../mururoa/1974/ATMOS\_1974-08-15.0030  
ln -fs ATMOS\_15-AUG-1974.0030 ../mururoa/1974/ATMOS\_740815.0030  
ln -fs ATMOS\_15-AUG-1974.0030 ../mururoa/1974/ATMOS\_740815  
ln -fs ATMOS\_15-AUG-1974.0030 ../mururoa/1974/740815  
ln -fs ATMOS\_24-AUG-1974.2345 ../mururoa/1974/ATMOS\_1974-08-24.2345  
ln -fs ATMOS\_24-AUG-1974.2345 ../mururoa/1974/ATMOS\_740824.2345  
ln -fs ATMOS\_24-AUG-1974.2345 ../mururoa/1974/ATMOS\_740824  
ln -fs ATMOS\_24-AUG-1974.2345 ../mururoa/1974/740824  
ln -fs ATMOS\_14-SEP-1974.2330 ../mururoa/1974/ATMOS\_1974-09-14.2330  
ln -fs ATMOS\_14-SEP-1974.2330 ../mururoa/1974/ATMOS\_740914.2330  
ln -fs ATMOS\_14-SEP-1974.2330 ../mururoa/1974/ATMOS\_740914  
ln -fs ATMOS\_14-SEP-1974.2330 ../mururoa/1974/740914  
ln -fs FANGATAUFA\_05-JUN-1975.1815 ../mururoa/1975/FANGATAUFA\_1975-06-05.1815  
ln -fs FANGATAUFA\_05-JUN-1975.1815 ../mururoa/1975/FANGATAUFA\_750605.1815  
ln -fs FANGATAUFA\_05-JUN-1975.1815 ../mururoa/1975/FANGATAUFA\_750605  
ln -fs FANGATAUFA\_05-JUN-1975.1815 ../mururoa/1975/750605  
ln -fs FANGATAUFA\_26-NOV-1975.0048 ../mururoa/1975/FANGATAUFA\_1975-11-26.0048  
ln -fs FANGATAUFA\_26-NOV-1975.0048 ../mururoa/1975/FANGATAUFA\_751126.0048  
ln -fs FANGATAUFA\_26-NOV-1975.0048 ../mururoa/1975/FANGATAUFA\_751126  
ln -fs FANGATAUFA\_26-NOV-1975.0048 ../mururoa/1975/751126  
ln -fs MURUROA\_03-APR-1976.1707 ../mururoa/1976/MURUROA\_1976-04-03.1707  
ln -fs MURUROA\_03-APR-1976.1707 ../mururoa/1976/MURUROA\_760403.1707  
ln -fs MURUROA\_03-APR-1976.1707 ../mururoa/1976/MURUROA\_760403  
ln -fs MURUROA\_03-APR-1976.1707 ../mururoa/1976/760403  
ln -fs MURUROA\_11-JUL-1976.0030 ../mururoa/1976/MURUROA\_1976-07-11.0030  
ln -fs MURUROA\_11-JUL-1976.0030 ../mururoa/1976/MURUROA\_760711.0030  
ln -fs MURUROA\_11-JUL-1976.0030 ../mururoa/1976/MURUROA\_760711  
ln -fs MURUROA\_11-JUL-1976.0030 ../mururoa/1976/760711  
ln -fs MURUROA\_30-OCT-1976.2300 ../mururoa/1976/MURUROA\_1976-10-30.2300  
ln -fs MURUROA\_30-OCT-1976.2300 ../mururoa/1976/MURUROA\_761030.2300  
ln -fs MURUROA\_30-OCT-1976.2300 ../mururoa/1976/MURUROA\_761030  
ln -fs MURUROA\_30-OCT-1976.2300 ../mururoa/1976/761030  
ln -fs MURUROA\_05-DEC-1976.2300 ../mururoa/1976/MURUROA\_1976-12-05.2300  
ln -fs MURUROA\_05-DEC-1976.2300 ../mururoa/1976/MURUROA\_761205.2300  
ln -fs MURUROA\_05-DEC-1976.2300 ../mururoa/1976/MURUROA\_761205  
ln -fs MURUROA\_05-DEC-1976.2300 ../mururoa/1976/761205

ln -fs MURUROA\_19-FEB-1977.2330 ../mururoa/1977/MURUROA\_1977-02-19.2330  
ln -fs MURUROA\_19-FEB-1977.2330 ../mururoa/1977/MURUROA\_770219.2330  
ln -fs MURUROA\_19-FEB-1977.2330 ../mururoa/1977/MURUROA\_770219  
ln -fs MURUROA\_19-FEB-1977.2330 ../mururoa/1977/770219  
ln -fs MURUROA\_19-MAR-1977.2301 ../mururoa/1977/MURUROA\_1977-03-19.2301  
ln -fs MURUROA\_19-MAR-1977.2301 ../mururoa/1977/MURUROA\_770319.2301  
ln -fs MURUROA\_19-MAR-1977.2301 ../mururoa/1977/MURUROA\_770319  
ln -fs MURUROA\_19-MAR-1977.2301 ../mururoa/1977/770319  
ln -fs MURUROA\_02-APR-1977.2330 ../mururoa/1977/MURUROA\_1977-04-02.2330  
ln -fs MURUROA\_02-APR-1977.2330 ../mururoa/1977/MURUROA\_770402.2330  
ln -fs MURUROA\_02-APR-1977.2330 ../mururoa/1977/MURUROA\_770402  
ln -fs MURUROA\_02-APR-1977.2330 ../mururoa/1977/770402  
ln -fs MURUROA\_06-JUL-1977.2300 ../mururoa/1977/MURUROA\_1977-07-06.2300  
ln -fs MURUROA\_06-JUL-1977.2300 ../mururoa/1977/MURUROA\_770706.2300  
ln -fs MURUROA\_06-JUL-1977.2300 ../mururoa/1977/MURUROA\_770706  
ln -fs MURUROA\_06-JUL-1977.2300 ../mururoa/1977/770706  
ln -fs MURUROA\_12-NOV-1977.0130 ../mururoa/1977/MURUROA\_1977-11-12.0130  
ln -fs MURUROA\_12-NOV-1977.0130 ../mururoa/1977/MURUROA\_771112.0130  
ln -fs MURUROA\_12-NOV-1977.0130 ../mururoa/1977/MURUROA\_771112  
ln -fs MURUROA\_12-NOV-1977.0130 ../mururoa/1977/771112  
ln -fs MURUROA\_24-NOV-1977.1700 ../mururoa/1977/MURUROA\_1977-11-24.1700  
ln -fs MURUROA\_24-NOV-1977.1700 ../mururoa/1977/MURUROA\_771124.1700  
ln -fs MURUROA\_24-NOV-1977.1700 ../mururoa/1977/MURUROA\_771124  
ln -fs MURUROA\_24-NOV-1977.1700 ../mururoa/1977/771124  
ln -fs MURUROA\_17-DEC-1977.2200 ../mururoa/1977/MURUROA\_1977-12-17.2200  
ln -fs MURUROA\_17-DEC-1977.2200 ../mururoa/1977/MURUROA\_771217.2200  
ln -fs MURUROA\_17-DEC-1977.2200 ../mururoa/1977/MURUROA\_771217  
ln -fs MURUROA\_17-DEC-1977.2200 ../mururoa/1977/771217  
ln -fs MURUROA\_27-FEB-1978.2300 ../mururoa/1978/MURUROA\_1978-02-27.2300  
ln -fs MURUROA\_27-FEB-1978.2300 ../mururoa/1978/MURUROA\_780227.2300  
ln -fs MURUROA\_27-FEB-1978.2300 ../mururoa/1978/MURUROA\_780227  
ln -fs MURUROA\_27-FEB-1978.2300 ../mururoa/1978/780227  
ln -fs MURUROA\_22-MAR-1978.1730 ../mururoa/1978/MURUROA\_1978-03-22.1730  
ln -fs MURUROA\_22-MAR-1978.1730 ../mururoa/1978/MURUROA\_780322.1730  
ln -fs MURUROA\_22-MAR-1978.1730 ../mururoa/1978/MURUROA\_780322  
ln -fs MURUROA\_22-MAR-1978.1730 ../mururoa/1978/780322  
ln -fs MURUROA\_25-MAR-1978.1730 ../mururoa/1978/MURUROA\_1978-03-25.1730  
ln -fs MURUROA\_25-MAR-1978.1730 ../mururoa/1978/MURUROA\_780325.1730  
ln -fs MURUROA\_25-MAR-1978.1730 ../mururoa/1978/MURUROA\_780325  
ln -fs MURUROA\_25-MAR-1978.1730 ../mururoa/1978/780325  
ln -fs MURUROA\_01-JUL-1978.1700 ../mururoa/1978/MURUROA\_1978-07-01.1700  
ln -fs MURUROA\_01-JUL-1978.1700 ../mururoa/1978/MURUROA\_780701.1700  
ln -fs MURUROA\_01-JUL-1978.1700 ../mururoa/1978/MURUROA\_780701  
ln -fs MURUROA\_01-JUL-1978.1700 ../mururoa/1978/780701  
ln -fs MURUROA\_19-JUL-1978.1800 ../mururoa/1978/MURUROA\_1978-07-19.1800  
ln -fs MURUROA\_19-JUL-1978.1800 ../mururoa/1978/MURUROA\_780719.1800  
ln -fs MURUROA\_19-JUL-1978.1800 ../mururoa/1978/MURUROA\_780719  
ln -fs MURUROA\_19-JUL-1978.1800 ../mururoa/1978/780719  
ln -fs MURUROA\_26-JUL-1978.2300 ../mururoa/1978/MURUROA\_1978-07-26.2300  
ln -fs MURUROA\_26-JUL-1978.2300 ../mururoa/1978/MURUROA\_780726.2300  
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