

FILE NO

OLD AIR	580	1	1
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Part No

26

DEPARTMENT OF DEFENCE

NOTE: *This cover is to be used only for official file series recorded with Australian Archives.
Form Number AR 111 is to be used for working papers.*

SUBJECT:

REPORTS ON FLYING SAUCERS AND OTHER AERIAL OBJECTS.

Folio	Referred to	Date Referred	Actioned by (Inits)	Folio	Referred to	Date Referred	Actioned by (Inits)
	P.A. 73	10.8.84	✓				

FILE NO

OLD
AIR

580

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ARCHIVAL ACTION

26

Part No

SUMMARY OF SIGHTINGS.

No	Place/Date	Name	Receipt	Reply	REMARKS
1	TERANG VIC 13 JUN	MRS A FRASER	13 JUL	20 JUN 73 ✓	KUGELBLITZ
2	MARCOBA Qld 23 JUN	P. BUNNEY	16 JUL	20 JUN 73 ✓	JUPITER
3	BOROKO PNG 14 JUL	J. SHEARS MRS BECK	17 JUL		REQUESTED HOSPITAL FOR DETAILS
4	BOROKO PNG 14 JUL	TERRILL	17 JUL	22 AUG ✓	STARS (ANTARES, SIMULA - KANS AUSTRALIS)
5	KIMBE PNG 14 JUL		17 JUL		REQUESTED HQ PNG FOR DETAIL.
6	AMBERLEY QMAY	ARMAN	20 JUL	N/R	SPACE DEBRIS
7	SPRINGBROOK QMAY	J. PILGRIM	20 JUL	N/R	STARS
8	KILKIVAN JUN 73	ABE REPORTER	20 JUL	N/R	STARS
9	PSWICH/BASSINDE Qld 24 JUN	H. S. J. AUSTIN	20 JUL	N/R	JUPITER
10	ALLORA Qld 17 JUN	M. C. COX	20 JUL	13 AUG ✓	CANOPUS
11	TARGA TAS 7/13 th APRIL	C. BARNETT	22 JUL	22 AUG ✓	AIRCRAFT (ENGGINA - 7 APR 73) UNKNOWN (13 APR - LACK OF INFORMATION)
12	MUSCOI NSW 18 MAR	C. E. KEARNS	25 JUL	18 AUG ✓	BIRD OR THUNDERBOLT
13	NSW/Vic 25 JUL	VARIOUS	27 JUL	N/R	METEORITE - NO INVESTIGATION NECESSARY
14	WILLAMPTON NSW 17 JUL 73	FR. L. N. & CAMERON	2 AUG	23 AUG 73 N/R	KUGELBLITZ / BARK LIGHTNING
15	CAMBERWELL VIC 3 JUL 73	D. T. C. ELLIS	3 AUG	13 AUG ✓	DC-9 VH-TJD KANINGSTON - NSW
16	AVONDALE PHS VIC 15 JUN 73	BERNARD SCHNEIDER	2 AUG	27 AUG ✓	LIGHT SOURCE ENTERING CANOPY
17	MORNINGTON VIC 1 JUL 73	S. CAGLIARDI	2 AUG	22 OCT ✓	UNRESOLVED - SKETCHY INFO.

THIS ONT
Reference A.
In accord
parts of Department
'UNCLASSIFIED' v1

7 Feb 82

(AIR FORCE OFFICE)
MINUTE PAPER


DEFAIR 580/1/1
Reference AF554/1/30 (34)

Subject: RECLASSIFICATION OF FILES

Reference: A. DI(AF)AAP 810 para 326.

In accordance with Reference A, all folios, in all parts of Department of Air File series 580/1/1 are reclassified 'UNCLASSIFIED' with effect 7 May 82.

7 May 82


(G.A. PERSKE)
GDCAPT
DAFIS





1 JUL 78

SIGHTING # 17

MORNINGTON
VIC

S. GAGLIARDI

Royal Australian Air Force A273 Feb 70 MEMO		For use within the RAAF only Write or print clearly	OUR FILE 5801/1 P-26	FOLIO 17b
FROM DPAIR (DAFI)		DATE 23 OCT 73	REFERENCES	
TO HOSC		ATTENTION CINTELLO		
SUBJECT REPORTS OF UNUSUAL AERIAL SIGHTING				

Enclosed for your records is a copy of a letter from this Department to Mr. S. Cagliardi in reply to his report of an unusual aerial sighting.

Enclosure: Copy of letter to Mr. S. Cagliardi.

SIGNATURE <i>M. C. Cotton</i>	PRINTED NAME M. COTTON	RANK ENG OFF	APPOINTMENT ICJ	PHONE EXT 21408
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580/1/1 Pt26 (17a)

22 OCT 1973

Mr S. Gagliardi,
345 Main Street,
MORNINGTON, VIC. 3931

Dear Sir,

With reference to the unusual aerial sighting report of 1st July 1973, submitted by your wife and self, we regret that the investigating team has been unable to determine the cause.


From the description given, a theoretical explanation of the initial noise is that sound emanating from a railway vehicle travelling on the Mornington/Barter line was directed to give an unusual characteristic, but no explanation can be advanced for the light and its associated movement.

Over many years of investigation of this subject throughout the world, no conclusive evidence has been found to ratify the theory of extra terrestrial visitation to Earth by space ship or other means, and as such, we think that the light seen was caused by some natural source (such as electrical discharge).

If, in the future, further reports of a similar nature are forthcoming and a solution is found, your report will again be investigated and a determination forwarded.

Thanking you for your interest,

Yours faithfully,



(G.J. ODGERS)
Director of Public Relations

18 Oct 73
No 4
dep by D/R
22.10.73
D

~~RESTRICTED~~

REPORT ON UNUSUAL AERIAL SIGHTING

Part I - Report by Observer

(As a preliminary to completing this form, the observer is invited to describe the sighting in his or her own manner, using either separate sheets or the back of this form.)

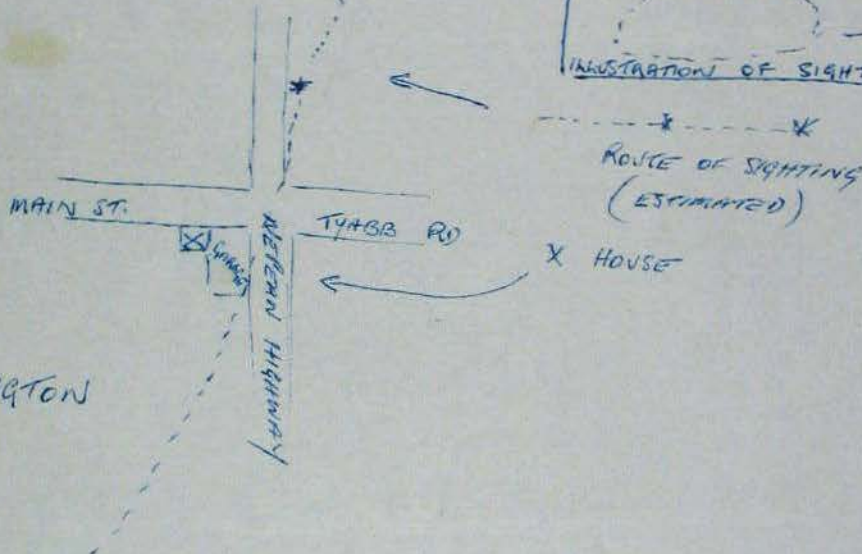
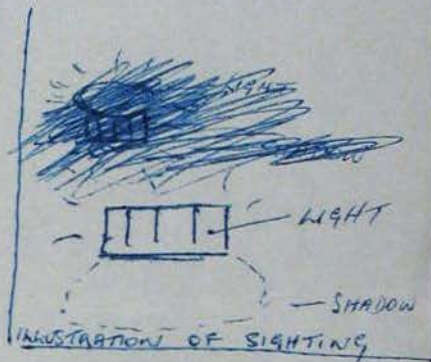
1. Name of observer MR & MRS. S. GARNWOLD..... Age 41 & 35
2. Address of observer 345 MAIN STREET, MORNINGTON.....
VICTORIA, 3931..... Phone 75 2487
3. Occupation of observer MOTOR MECHANIC & SPARE LADY.....
4. Date and time of start of observation 1-7-73..... 5.40 A.M.
How certain is the date?..... CERTAIN
How accurate is the time of start?..... WITHIN 5 MINUTES
5. Duration of observation..... 2-3 MINUTES
How accurate is your estimate?..... APPROXIMATE
6. Observer's location at time of sighting STANDING IN FRONT
DOORWAY OF HOME.....
How familiar is observer with this locality?..... LIVED HERE 5 YEARS
7. Weather conditions at time of observation CALM & CLEAR.....
8. Describe any aids/equipment used in the observation..... NONE.....
9. Where was object first observed? :
 - a. Relative to your surroundings..... JUST SOUTH OF EAST
MAYBE 150-200 YARDS AWAY.....
 - b. angle of elevation..... JUST ABOVE GROUND.....
 - c. compass angle bearing.....
 - d. how accurate are these estimates?.....
10. What first attracted observer's attention?..... THE NOISE AS IT
CAME OVER FROM SOMEWHERE BEHIND THE HOUSE.....
11. If there was more than one light/object :
 - a. how many were there?..... ONE.....
 - b. in what formation were they?.....
12. What was the colour of the light or object?..... WHITE LIGHT.....

RESTRICTED

13. What was the brightness? (compare with full moon or common light source at a stated distance, eg ordinary street light at 100 yards). *WHEN NEAR THE GROUND - BRIGHTER THAN THE STREET LIGHT WHICH APPEARED TO BE ONLY A FEW YARDS AWAY*
14. What was the apparent size at nearest approach?: *FROM IT*
 - a. relative to Venus or Moon.....
 - b. relative dimensions in inches at arm's length (about 20 inches from the eyes)..... *IT APPEARED TO BE AS BIG AS A CAR'S LENGTH.*
15. What were the bearing and elevation angles at nearest approach and how were these values assessed?.....
16. Was any method of propulsion obvious?..... *NO*
17. Describe any sound heard, including changes in pitch and intensity *LONG, HIGH PITCHED, QUIVERING SOUND*
18. What was the maximum and minimum angle of elevation (or height, if an estimate can be justified)?.....
19. What was the maximum and minimum angular velocity (or speed, if an estimate can be justified)? If necessary, compare with the movement of familiar objects at stated distances *COMPARED WITH SPEED OF A CAR ABOUT 3 MILES PER HOUR*
20. Give duration of any stationary phases..... *NONE*
21. Describe any deviations or manoeuvres..... *STRAIGHT UP*
22. Describe any trail of exhaust, vapour or light seen..... *NONE*
23. Where was object last observed :
 - a. relative to your surroundings. *HIGH IN SKY BESIDE A BRIGHT STAR*
 - b. angle of elevation.....
 - c. compass angle bearing.....
24. What was the manner of its disappearance? *IT STAYED IN SKY + WE DIDN'T TRY TO SEE WHEN IT DISAPPEARED - TOO COLD!!*
25. Do you know of any associated physical evidence (such as fragments, photographs, scorching, ground indentations, residual magnetism or radioactivity etc)..... *NO*
26. State any training which enables observer to be reasonably certain of his/her ability to estimate angles and angular velocity..... *NONE*
27. How many witness to the sighting?..... *?*
ONLY KNOW OF ONE COUPLE WHO HEARD THE
~~RESTRICTED~~ *NONE. DIDN'T ASK THE WHOLE TOWN.*

- 28. Do you know of witnesses to similar sightings in the area? *Yes*.....
- 29. What natural phenomenon (or phenomena) would be nearest to explaining your observation? *A SPACE SHIP*.....
- 30. What are your main reasons for excluding this explanation?.....
DO SUCH THINGS EXIST??.....
- 31. Please sketch the light/object with all details. If appropriate, sketch position and/or movement of object in relation to your surroundings. Use back of form, if needed.

We were woken from sleep by the noise & went to front door to see the light like as described



Signature *A. Hughes*
A. Hughes

Date *4-7-73*

Part 2 - Unit Evaluation

32. The following military aircraft were in the vicinity of the reported UFO position at the time:

A/C type Nil.....(1).....(2).....(3)
 Heading..... TT..... (T)
 Height.....,000 ft.....,000 ft.....,000 ft
 Speed.....K.....K.....K
 ATD/ATA*.....hrs.....hrs.....hrs

33. The following civil aircraft were in the vicinity of the reported UFO position at the time.

A/C type Nil.....(1).....(2).....(3)
 Heading.....T.....T.....T
 Height.....000 ft.....000 ft.....000 ft
 Speed.....K.....K.....K
 ATD/ATA*.....hrs.....hrs.....hrs

Moorabbin twr inactive before 0700K
 * Give location of nearest ATD or ATA

34. Observer's Location: Latitude 38.15S Longitude 145.06E

35. Give bearing and elevation of any planets and major stars that were in that position of the sky at that time. By day, give location of Venus only.

JUPITER about 300° about 60° elevation

36. A meteorological balloon was released from... LAV...

at... 0300 K... Colour..... Weight..... gm

Radio-sonde** radar** : Candle ** battery **
(Delete as required)

General wind profile... calm.....

Maximum height tracked.....00 ft at.....Z

Was it known to have burst?

37. The first significant temperature inversion was of

4.5° at surface ft measured at 0900K hrs from TULLA
to 8.5 at abt 500 feet
station.

38. Any remarks on satellites, rockets, research balloons, comets, meteorites etc, relevant to the sighting.

39. When an aircraft is a possible identification, include radar trace if available and ascertain which of the aircraft lights were operating.

.....
.....

40. The cause (or likely cause) of the sighting
** ~~can~~/cannot be determined.

41. The object reported probably was ** / may have been

1. The reported sound and light may not be associated phenomena. When Mrs Jagliardi, just reported the occurrence she said the sound had made them go outside. Once outside they saw the light when looking for the source of the sound. Initially the light did not seem to play a major role but she has now associated the light with the noise.
2. Neither the Frankston crime car, ~~the~~ Frankston Police car, ~~or~~ ~~the~~ a Peninsular ambulance was in the area at the time.
3. The only possible light was Jupiter & I feel this is the reported light. I can offer no solution for the source of the sound.

HQSE

(Unit)

31 JUL 73

(Date)

GIBBS

(Name of Investigating Officer)

(Rank)

As in the May siren ducting reports, a main road, the Nepean Highway, runs close to the Jagliardi house & I feel the sound came from there and may have been ducted by the low temp inversion.

** Delete as necessary

15 JUN 73

SIGHTING # 16

AVONDALE HGTS
VIC

B. SCHNEIDERS

850 Schneiders To Sovereign Way
Avondale H.F. 13 Jul 73 re moon

That UFO makes return visit

MELBOURNE'S UFO returned last night — and was "captured" on film.

Bernard Schneiders, 12, of Avondale Heights, was taking pictures of the Southern Cross group of stars with two of his friends, Theo, 12, and Cathryn Kennis, 9, when Cathryn saw a fast-moving object in the sky.

"We were facing south in Avondale Heights and we saw it at 6.32," Bernard said.

"It was travelling at fantastic speed and changed in color from red to white.

"It didn't have a tail or anything."

Bernard said the object travelled south before "it made a sharp turn back and then seemed to hover for five minutes.

"When Cathryn saw it, my first thought was, 'gosh, a UFO,' and I just aimed the camera."

Bernard is in Form one at Avondale Heights High School.



• THE night sky over Avondale Heights . . . and Bernard Schneiders, 12, snaps his first UFO.

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27 AUG 1973

580/1/1 Pt26 (16a)

Master B. Schneiders,
20 Sovereign Way,
AVONDALE HEIGHTS, VIC 3034

Dear Bernard,

Thank you for your report and photographic negatives of an unusual light source which became evident during photography of the moon.

Specialists in the Royal Australian Air Force have developed and evaluated the photographs and the investigating team is of the opinion that light has entered the camera from other than the normal aperture and has affected the two negatives during the time exposures.

The reason for this theory is that the intensity of the light is different for the two exposures (10 seconds and 30 seconds). It could also have been what is referred to as 'flare spot' which may have occurred if the photographs were taken from a position where a street lamp was on the extreme edge of the field of view of the lens, but not necessarily showing on the film.

We trust that this answer is satisfactory and thank you for your interest and your negatives and enlarged prints are enclosed.

Yours faithfully,

G. J. Odgers
(G.J. ODGERS)

Director of Public Relations

*h
4/1/73
DAM
24 Aug 73*

*don
Copy sent to HQSL
on 580/1/1 Pt 26 (26)
25 Aug 73
K2.*

*Man
Dup by DRL
27 8 73
Ⓢ*

MEMORANDUM

RAAF FORM A273 MAR 63

For use within the RAAF only
Write or print clearly

OUR FILE

5/6/1 Air (38)

FROM

HQSC

DATE

31 JUL 73

TO

~~DEPATR~~

ATTENTION

DAFI IR-2

REFERENCES

SUBJECT

UNUSUAL AERIAL SIGHTINGS

580-1-1
DAFI
12.7.73

1. Attached is an unusual aerial sighting report from Master BERNARD SCHNEIDERS 20 Sovereign Way Avondale Heights Vic 3034.

2. Can the negatives be returned to the observer.

SIGNATURE

PRINTED NAME

R.O. GIBBS

RANK AND APPOINTMENT

Flg Off INT 1

PHONE EXTN

7410

C.D.O. 9777

MEMORANDUM



REPORT ON UNUSUAL AERIAL SIGHTING

Part I - Report by Observer

(As a preliminary to completing this form, the observer is invited to describe the sighting in his or her own manner, using either separate sheets or the back of this form.)

1. Name of observer BERNARD SCHNEIDERS Age 12
2. Address of observer 20 SOVEREIGN WAY
AUCONDALE HEIGHTS, VIC. 3034 Phone 2374306
3. Occupation of observer STUDENT
4. Date and time of start of observation JUNE 15, 1973, 8:15 pm.
How certain is the date? ABSOLUTE
How accurate is the time of start? APPROX.
5. Duration of observation.....
How accurate is your estimate?.....
6. Observer's location at time of sighting AT HOME
.....
How familiar is observer with this locality?.....
7. Weather conditions at time of observation FINE, CLEAR SKY
EXCEPTING FOR SMALL PATCHES OF CLOUD.
8. Describe any aids/equipment used in the observation NONE
9. Where was object first observed? :
a. Relative to your surroundings Object was observed only in
photograph
b. angle of elevation of camera from horizontal, about 25°
c. compass angle bearing almost East (lens direction)
d. how accurate are these estimates? Accurate
10. What first attracted observer's attention?.....
11. IF LIGHT WAS MORE THAN ONE LIGHT/OBJECT :
a. how many were there?.....
b. in what formation were they?.....
12. What was the colour of the light or object?.....

- 13. What was the brightness? (compare with full moon or common light source at a stated distance, eg ordinary street light at 100 yards)... *see photograph*
- 14. What was the apparent size at nearest approach?:
 - a. relative to Venus or Moon... *see photograph*
 - b. relative dimensions in inches at arm's length (about 20 inches from the eyes).....
- 15. What were the bearing and elevation angles at nearest approach and how were these values assessed?.....
- 16. Was any method of propulsion obvious?.....
- 17. Describe any sound heard, including changes in pitch and intensity
- 18. What was the maximum **and** minimum angle of elevation (or height, if an estimate can be justified)?.....
- 19. What was the maximum and minimum angular velocity (or speed, if an estimate can be justified)? If necessary, compare with the movement of familiar objects at stated distances
- 20. Give duration of any stationary phases.....
- 21. Describe any deviations or manoeuvres.....
- 22. Describe any trail of exhaust, vapour or light seen.....
- 23. Where was object last observed :
 - a. relative to your surroundings.....
 - b. angle of elevation.....
 - c. compass angle bearing.....
- 24. What was the manner of its disappearance?.....
- 25. Do you know of any associated physical evidence (such as fragments, photographs, scorching, ground indentations, residual magnetism or radioactivity etc).....
- 26. State any training which enables observer to be reasonably certain of his/her ability to estimate angles and angular velocity... *None*.....
- 27. How many witness to the sighting?... *One*.....

- 28. Do you know of witnesses to similar sightings in the area?.....
- 29. What natural phenomenon (or phenomena) would be nearest to explaining your observation?.....
- 30. What are your main reasons for excluding this explanation?.....
-
- 31. Please sketch the light/object with all details. If appropriate, sketch position and/or movement of object in relation to your surroundings. Use back of form, if needed.

32. Type of camera :- DIANA-F

33. Exposure :- Neg. No. 1. (10secs) Neg. No. 2. (30secs)

34. Aperature :- 12ft -- inf. and set for cloudy and dull light conditions

35. Type of film :- Kodak Verichrome pan.

36. Developing details :- ID 11 developer. 7 minutes. 68° F.

37. Camera was resting on fence post

Signature Bernard Schneiders

Date 21-7-73

Brenda Schneiders (Mother)

Part 2 - Unit Evaluation

32. The following military aircraft were in the vicinity of the reported UFO position at the time:

A/C type.....*Nil*.....(1).....(2).....(3)
Heading..... TT..... (T)
Height.....,000 ft.....,000 ft.....,000 ft
Speed.....K.....K.....K
ATD/ATA*.....hrs.....hrs.....hrs

33. The following civil aircraft were in the vicinity of the reported UFO position at the time.

A/C type.....*Nil*.....(1).....(2).....(3)
Heading.....T.....T.....T
Height.....000 ft.....000 ft.....000 ft
Speed.....K.....K.....K
ATD/ATA*.....hrs.....hrs.....hrs

* Give location of nearest ATD or ATA

34. Observer's Location: Latitude. *37.45S* Longitude. *14452E*

35. Give bearing and elevation of any planets and major stars that were in that position of the sky at that time. By day, give location of Venus only.

Jupiter may have been visible near moon approx 100° elevation abt 10°

36. A meteorological balloon was released from.....

at.....Z..Colour.....Weight.....gm

Radio-sonde** radar** : Candle ** battery **
(Delete as required)

General wind profile.....

Maximum height tracked.....00 ft at.....Z

Was it known to have burst?

37. The first significant temperature inversion was of

....at.....ft measured at.....Z hrs from.....

.....station.

38. Any remarks on satellites, rockets, research balloons, comets, meteorites etc, relevant to the sighting.

Visible satellite info not available 15JUN73

39. When an aircraft is a possible identification, include radar trace if available and ascertain which of the aircraft lights were operating.

.....
.....

40. The cause (or likely cause) of the sighting
** can/cannot be determined.

41. ~~The object reported probably was ** / may have been~~

1. Mrs Schneiders rang this office on 13 JUL 73. She seemed reluctant to part with the negatives and, naturally, wants them back. Mrs Schneiders is a journalist & her husband a professional photographer who developed the film.
2. The photograph and extract from the Melbourne Sun 25 JUL 73 are for your info only and have not been reported as an unusual aerial sighting.
3. It is considered that this office is not qualified to comment on the attached negatives but the light source to the right of the moon could be stationary man made i.e. a street light, a Jupiter

H&SCU

31 JUL 73

(Unit)

(Date)

R.O. Gibbs

Flg. Off

(Name of Investigating Officer)

(Rank)

3 JUL 73

SIGHTING # 15

CAMBERWELL
VIC

J. T. C. ELLIS

A273

Feb
70

MEMO

580/1/1 P-24f

156

FROM **DEPAR (DAP)**

DATE

REFERENCES

TO **Hose**

ATTENTION

CINTELLO

**Hose 5/6/73
(40) OF
31 JUL 73**

SUBJECT

REPORTS OF UNUSUAL AERIAL SIGHTINGS

Enclosed, for your records, is a copy of a letter from this Department to Mr. D. T. C. Ellis in reply to his report of an unusual aerial sighting

Enclosure: Copy of letter to Mr. D. T. C. Ellis

SIGNATURE <i>M. Gretton</i>	PRINTED NAME M. GRETTON	RANK FLC OFF	APPOINTMENT IR 2	PHONE EXT 2408
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580/1/1 Pt26 (15a)

Mr D.T.C. Ellis,
24 Penrose Street,
BOX HILL SOUTH VIC 3128

11 3 AUG 1973

Dear Sir,

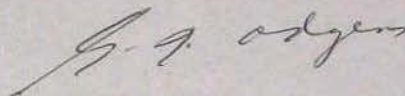
With reference to your report of an unusual aerial sighting on 3rd July 1973, it has been determined that the most probable cause was an aircraft approaching Tullamarine airport.

Following your initial report of the sighting, it was ascertained from Tullamarine that a DC-9, registration VH-TJD, from Launceston had landed at 5.45 pm. This aircraft would have overflowed Wonthaggi in bound for Melbourne, then tracked east of the city before turning to the west for approach to Tullamarine. From your position the aircraft would have been at a low angle of elevation and this, combined with the aircraft turning, would give the impression of greater speed than normal.

Recently, scheduled commercial flights have been turning on their landing lights up to 100 miles before landing. It is thought that the bright light you described was in fact the aircraft's landing lights which are in close proximity on a DC-9.

We trust that this explanation is satisfactory and thank you for your report.

Yours faithfully,



(G.J. ODGERS)
Director of Public Relations

Cl
10 Aug 73

Done by DRC
10.8.73
K

MEMORANDUM

For use within the RAAF only
Write or print clearly

RAAF FORM A273 MAR 63

FROM

HQSC

OUR FILE

5/6/1/Air(40)

DATE

31 JUL 73

TO

~~DEPAIR~~

ATTENTION

DAFI 1R2

REFERENCES

SUBJECT

UNUSUAL AERIAL SIGHTING

580-1-
241
12-73

1 Enclosed is an unusual aerial sighting report from Mr ELLIS of BOX HILL 3128.

SIGNATURE

PRINTED NAME

R.O. GIBBS

RANK AND APPOINTMENT

Flg OFF INT 1

PHONE EXTN

7410

C.O.D. 9777

10. What first attracted observer's attention?..... vision high
11. If there was more than one light/object :
- a. how many were there?..... N/A
- b. in what formation were they?..... N/A
12. What was the colour of the light or object?..... white

~~RESET FORM~~

(As a
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Name
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PROGRAM



REPORT ON UNUSUAL AERIAL SIGHTING

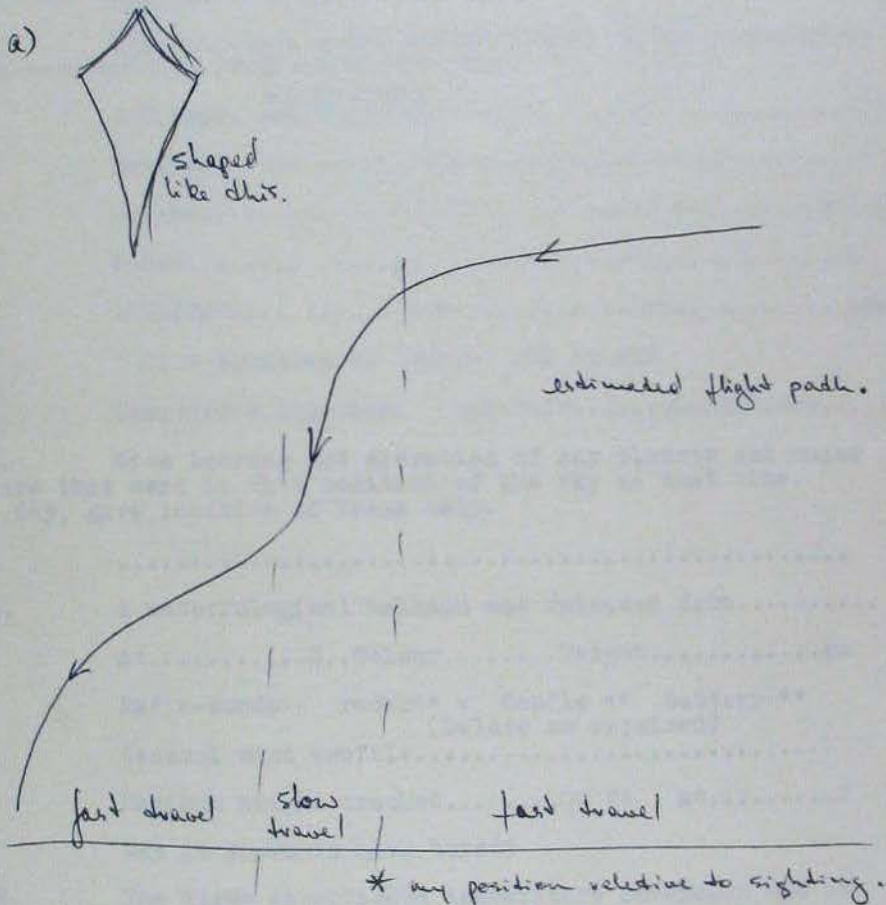
Part I - Report by Observer

(As a preliminary to completing this form, the observer is invited to describe the sighting in his or her own manner, using either separate sheets or the back of this form.)

1. Name of observer DONALD TALBOT CLIFFORD FLYS Age 32
2. Address of observer 24 PENROSE STREET
Box Hill, SA, 3128 Phone 288-7694
3. Occupation of observer SYSTEMS ANALYST
4. Date and time of start of observation 3/7/78 at about 5.55 pm (date of initial report).
How certain is the date? not very, didn't take note at time, I think a Tuesday
How accurate is the time of start? estimated from time of initial reporting
5. Duration of observation 1/2 MINS. ; 3 MINS. ; MAXIMUM
How accurate is your estimate? Not very, concentrating on traffic
6. Observer's location at time of sighting In car driving east along
Riversdale Rd, Middle Camberwell.
How familiar is observer with this locality? Very, travelled every day.
7. Weather conditions at time of observation Clear, sun setting behind
and lighting a high overcast.
8. Describe any aids/equipment used in the observation NIL
9. Where was object first observed? :
 - a. Relative to your surroundings in sky, clear of buildings
houses etc.
 - b. angle of elevation about 20°
 - c. compass angle bearing Approximately ESE
 - d. how accurate are these estimates? observed through car windscreen.
10. What first attracted observer's attention? bright light
11. If there was more than one light/object :
 - a. how many were there? N/A
 - b. in what formation were they? N/A
12. What was the colour of the light or object? white

13. What was the brightness? (compare with full moon or common light source at a stated distance, eg ordinary street light at 100 yards). *about intensity of 100 driving light at 100 yds in these weather conditions.*
14. What was the apparent size at nearest approach?:
 - a. relative to Venus or Moon... *about size of 1/4 moon.*
 - b. relative dimensions in inches at arm's length (about 20 inches from the eyes)... *1/2 to 3/4 inch*
15. What were the bearing and elevation angles at nearest approach and how were these values assessed? *bearing ENE, angle < 20°, estimated.*
16. Was any method of propulsion obvious? *No*
17. Describe any sound heard, including changes in pitch and intensity *No sound heard*
18. What was the maximum and minimum angle of elevation (or height, if an estimate can be justified)? *constant at about 20°*
19. What was the maximum and minimum angular velocity (or speed, if an estimate can be justified)? If necessary, compare with the movement of familiar objects at stated distances *Seemed to travel much faster than commercial aircraft.*
20. Give duration of any stationary phases *None*
21. Describe any deviations or manoeuvres *None*
22. Describe any trail of exhaust, vapour or light seen *None*
23. Where was object last observed :
 - a. relative to your surroundings... *between houses + trees*
 - b. angle of elevation... *about 20°*
 - c. compass angle bearing... *NNE*
24. What was the manner of its disappearance? *no longer visible, could have been hidden by nearer objects.*
25. Do you know of any associated physical evidence (such as fragments, photographs, scorching, ground indentations, residual magnetism or radioactivity etc)... *No*
26. State any training which enables observer to be reasonably certain of his/her ability to estimate angles and angular velocity. *training (and interest in aircraft) with ATC. Also navigator training.*
27. How many witness to the sighting? *observer plus 1*

28. Do you know of witnesses to similar sightings in the area?..... *No*.....
29. What natural phenomenon (or phenomena) would be nearest to explaining your observation?..... *Reflection of sun on aircraft*.....
30. What are your main reasons for excluding this explanation?..... *No navigation lights visible at any time (ie. red & green) and it seemed to be travelling too fast.*
31. Please sketch the light/object with all details. If appropriate, sketch position and/or movement of object in relation to your surroundings. Use back of form, if needed.



Signature.....

Date.....

Part 2 - Unit Evaluation

32. The following military aircraft were in the vicinity of the reported UFO position at the time:

A/C type.....(1).....(2).....(3)
 Heading..... TT..... (T)
 Height.....,000 ft.....,000 ft.....,000 ft
 Speed.....K.....K.....K
 ATD/ATA*.....hrs.....hrs.....hrs

33. The following civil aircraft were in the vicinity of the reported UFO position at the time.

A/C type.....DC 9/TJD.....(1).....(2).....(3)
 Heading.....T.....T.....T
 Height.....000 ft.....000 ft.....000 ft
 Speed.....K.....K.....K
 ATD/ATA*.....hrs.....hrs.....hrs

* Give location of nearest ATD or ATA

34. Observer's Location: Latitude.....Longitude.....

35. Give bearing and elevation of any planets and major stars that were in that position of the sky at that time. By day, give location of Venus only.

.....

36. A meteorological balloon was released from.....

at.....Z..Colour.....Weight.....gm

Radio-sonde** radar** : Candle ** battery **
(Delete as required)

General wind profile.....

Maximum height tracked.....00 ft at.....Z

Was it known to have burst?

37. The first significant temperature inversion was of
.....at.....ft measured at.....Z hrs from.....
.....station.

38. Any remarks on satellites, rockets, research balloons, comets, meteorites etc, relevant to the sighting.

.....

39. When an aircraft is a possible identification, include radar trace if available and ascertain which of the aircraft lights were operating.

.....

.....

40. The cause (or likely cause) of the sighting
** can/cannot be determined.

41. The object reported ~~probably~~ was ** / ~~may have been~~

VH TJD from Launceston to
Melbourne with landing lights
on. This was confirmed with
RAAF controller TULLA at time
of sighting

ATA TULLA 1745

HQSCU
(Unit)

31 JUL 73
(Date)

R. O. GIBBS
(Name of Investigating Officer)

Flg Off.
(Rank)

17 JUL 73

SIGHTING # 14

WILLIAMTOWN
NSW

FILIP N. CAMERON

580/1/1 Pt26 (14a)

Headquarters RAAF Williamtown (Attention: FIO)

REPORT OF UNUSUAL AERIAL SIGHTING

Reference: HQWLM 5/2/AIR(8) dated 30th July 1973

1. Investigation by this Department of the unusual aerial sighting reports made by Flt Lt H.G. CAMERON and Mrs T. WILLIAMS on 17th July 1973, has resulted in a logical (although theoretical) explanation that the sighting was of the phenomenon known as 'Kugelblitz' or 'Ball Lightning'.


2. To explain the phenomenon, the following detail has been extracted from 'The Report on the Scientific Study of Unidentified Flying Objects' carried out in the USA by Dr Edward Condon, for the United States Air Force:

'Among the most mysterious manifestations of atmospheric electricity is the phenomenon of ball lightning, or Kugelblitz. A glowing ball either (1) appears after a cloud to ground lightning flash and remains near the ground, or (2) is first seen in midair, descending from a cloud, or arising from no obvious cause, thereafter remaining aloft until it vanishes. Some 85% of observers agree that the size and brightness of the ball remains roughly constant throughout the period of sighting, and that no changes occur, even immediately prior to its disappearance. A minority report brightening and colour changes. The colours red, orange and yellow are most common, but most other colours are seen occasionally. About 30% of observers detect internal motions or rotation of the ball itself, although this may depend on the distance from the ball of the observer. Several reports do indicate some guidance from telephone or power lines and by grounded objects.

/3. Analysis

3. Analysis of the investigating officer's report shows that the weather conditions pertaining at the time were conducive to the formation of the phenomenon, and from study of the terrain to the east of the viewing position, it is feasible that above ground power lines in the vicinity may have been a contributing factor in the lateral movement of the object.

4. It is requested that this determination be made available to Flt Lt Cameron and Mrs Williams for their information.


(K.R. JANSON)
Group Captain
for Chief of the Air Staff



ROYAL AUSTRALIAN AIR FORCE

TELEPHONE: Newcastle 65-1221

Headquarters
RAAF Base
WILLIAMTOWN NSW 2314

DEPT. OF AIR
DAFI
17.7.73
580 1-1
C

IN REPLY QUOTE 5/2/Air(8)

30th July 1973

DAFI
Department of Air

For Information:

Headquarters Operational Command (Attn: CC Intell 0)

REPORT ON UNUSUAL AERIAL SIGHTING

1. Attached are reports on an unusual aerial sighting viewed from RAAF Base Williamtown. Observers were Flt Lt N.G. Cameron GDPLT of No 76 Squadron, and Mrs T. Williams of 90 Susans Crescent RAAF Base Williamtown. The sighting took the form of a moving light at 80°-90° AZ, described variously as cream and yellow/orange, roughly the size of Venus, moving rapidly North to South and South to North, with a twenty second pause between manoeuvres.

2. Weather at 2000 hrs local was overcast, with $\frac{1}{2}$ Alto Stratus at 9000 feet, wind North Westerly at 5 knots, and rain had just stopped. Half degree temperature inversions were recorded each for 0-800 feet and 12000-12500 feet. Neither Service nor civilian aircraft were active at the time of sighting and no satellite sightings were forecast. At 2000 hrs Jupiter was at AZ 100° elevation approximately 25°. No other major stars/planets were visible.

3. No solution readily suggests itself other than that of distortion of Jupiter by factors unknown.

4. Forwarded for your further investigation.

A.F. Blackburn
(A.F. BLACKBURN)
Flight Lieutenant
for Officer Commanding

Enclosure: 1. Reports on Unusual Aerial Sighting

RECEIVED
- 2 AUG 1973
DAFI

HB.WLM(Unit)..... A.F. BLACKBURN(Name)
30 Jul 73(Date)..... FLT LT(Rank)

REPORT ON UNUSUAL AERIAL SIGHTING

Part 1 - Report by Observer

(As a preliminary to completing this form, the observer is invited to describe the sighting in his or her own manner, using either separate sheets or the back of this form.)

1. Name of observer FLT LT N.G. CAMERON Age 34.
2. Address of observer B. FET (CA) 76 SQN RAAF RAAF
WILLIAMTOWN Phone E-T 2403.
3. Occupation of observer PILOT.
4. Date and time of start of observation 17 JUL 73 ABOUT 2005.
How certain is the date? POSITIVE.
How accurate is the time of start? WITHIN 10 MINS EITHER WAY.
5. Duration of observation THREE TIMES EQUALLYING ABOUT SEVEN MINUTES.
How accurate is your estimate? ONE MINUTE EITHER WAY.
6. Observer's location at time of sighting MQ 90 SUSANS CRESCENT
MARRIED QUARTERS RAAF RAAF WILLIAMTOWN.
How familiar is observer with this locality? VERY - 3RD
TOUR - BAND ARRIVED JAN 71.
7. Weather conditions at time of observation 4/8 TO 5/8 FRAC TO STRATUS
AT ESTIMATED 2000-3000 FT MOVING FROM 180°M.
8. Describe any aids/equipment used in the observation NIL.
9. Where was object first observed:
 - a. Relative to your surroundings ABOUT 20° NORTH
OF THE NORMAL ANGLE FACING EAST ON SUSANS CRESCENT
 - b. Angle of elevation ≈ 35° FROM HORIZON IE ABOUT 080°M
 - c. Compass angle bearing ≈ 080°M
 - d. How accurate are these estimates? ELEV ± 5° BEARING ± 10°
10. What first attracted observer's attention? MOVEMENT OF THE
LIGHT AS I GOT OUT OF MY LAR.
11. If there was more than one light/object:
 - a. How many were there? NO
 - b. In what formation were they? N/A
12. What was the colour of the light or object? OFF WHITE (CREAM).
13. What was the brightness? (Compare with full moon or common light source at a stated distance eg, ordinary street light at 100 yards)
MET BALLOON AT LOW ALTITUDE OR TAILLIGHT OF A/C IN CIRCUIT
14. What was the apparent size at nearest approach:
 - a. Relative to Venus or Moon VENUS SIZE AT DUSK
 - b. Relative dimensions in inches at arm's length (about 20 inches from the eyes) 1/8"

H&WLM (Unit) A.F. BLACKBURN (Name)
30 Jul 73 (Date) FLT LT (Print)

1. On a visit to MQ 90 at about 2005 hrs my attention was drawn to a light which was apparently moving to the east of my position. My first thought was that it was an aircraft - a jet by its speed of movement. As to my knowledge, night flying had been cancelled and there was no engine noise. I stopped and observed the light. Its movement was in a general north to south direction. It then rapidly reversed direction and moved back to the north. This ^{north/south movement} took place several times and then stopped. After about 20 seconds a ~~similar occurrence~~ took place the sequence repeated itself.

2. My first thought was that the occurrence was an optical illusion created by the moving cloud. However the object was about 20° or so to the left of the top of a power pole and the movement was confirmed in relation to this.

3. My hosts young son (aged about 10) answered the door. I asked him if he could see anything unusual happening to the light. After a short observation he described the occurrence as above.

4. My hosts wife then came to the door and she also confirmed my observation.

5. I went to the phone and spoke to the duty met forecaster to see if any balloons had been released. He replied in the negative and said he would take a look himself. When I returned outside the light had disappeared.

- 15. What were the bearing and elevation angles at nearest approach and how were these values assessed? *AS FOR PARA 9 (b) & (c). FROM KNOWLEDGE OF AIRFIELD LAYOUT AND EXPERIENCE*
- 16. Was any method of propulsion obvious? *NO*
- 17. Describe any sound heard, including changes in pitch and intensity *NIL*
- 18. What was the maximum and minimum angle of elevation (or height, if an estimate can be justified)? *~ 35°*
- 19. What was the maximum and minimum angular velocity (or speed, if an estimate can be justified)? If necessary, compare with the movement of familiar objects at stated distances. *THE MOVEMENT WAS VERY SIMILAR TO A METEOROLOGICAL BALLOON AT 200-500' ALT.*
- 20. Give duration of any stationary phases. *15-30 SECS.*
- 21. Describe any deviations or manoeuvres. *NORTH-SOUTH THROUGH ~ 10° IN RELATION TO POWER POLE ON OPPOSITE SIDE OF ROAD.*
- 22. Describe any trail of exhaust, vapour or light seen. *NIL*
- 23. Where was the object last observed:
 - a. Relative to your surroundings. *AS STATED IN*
 - b. Angle of elevation. *DATA 9(a) & (c)*
 - c. Compass angle bearing. *0*
- 24. What was the manner of its disappearance? *IT HAD DISAPPEARED AFTER MY TELEPHONING THE DUTY MET FORECASTER FOR INFO ON BALLOON RELEASES.*
- 25. Do you know of any associated physical evidence (such as fragments, photographs, scorching, ground indentations, residual magnetism or radioactivity etc.). *NR*
- 26. State any training which enables observer to be reasonably certain of his/her ability to estimate angles and angular velocity. *ALMOST 14 YRS RAAF FLYING, QFI, 4300 HRS. TOTAL EXPERIENCE*
- 27. How many witnesses to the sighting? *3*
- 28. Do you know of witnesses to similar sightings in the area? *NO*
- 29. What natural phenomenon (or phenomena) would be nearest to explaining your observation? *MET. BALLOON WITH LIGHT*
- 30. What are your main reasons for excluding this explanation? *MET FORECASTER SAID NONE HAD BEEN RELEASED*
- 31. Please sketch the light/object with all details. If appropriate, sketch position and/or movement of object in relation to your surroundings. Use back of form.

Signature *M. Cameron FELT*

Date *25 JUL 73*

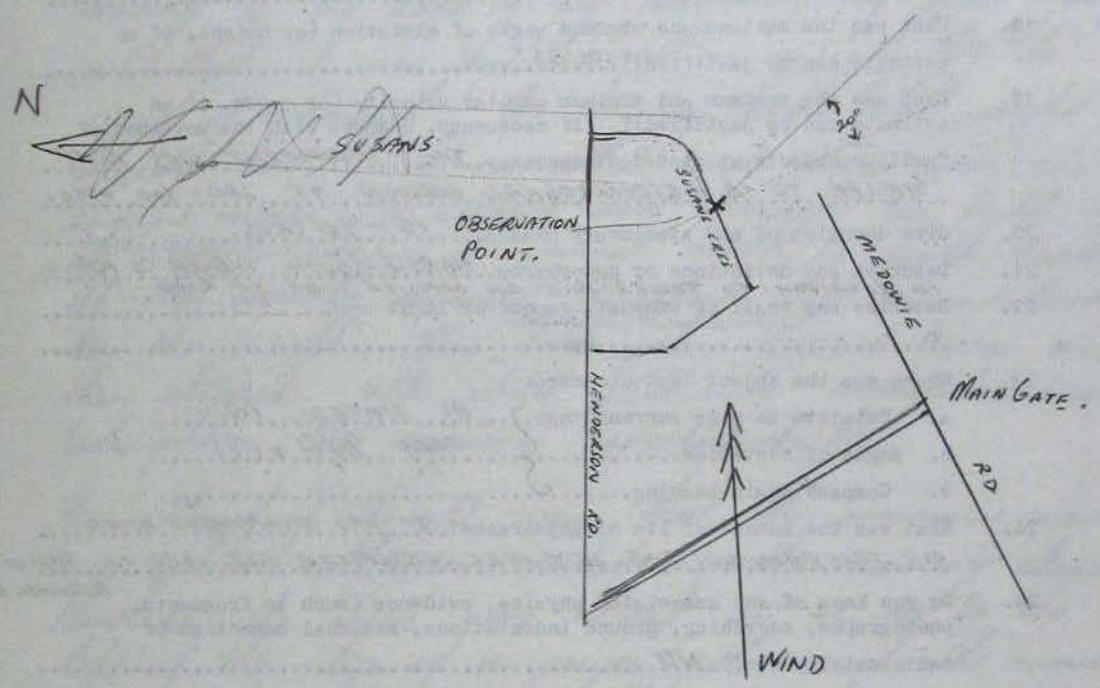
HB.WLM

.....(Unit) *A.F. BLACKBURN* (Name)

30 Jul 73

.....(Date) *FELT* (Print)

MET OFFICE
BALLOON RELEASE Pt.



REPORT ON UNUSUAL AERIAL SIGHTING

Part 1 - Report by Observer

(As a preliminary to completing this form, the observer is invited to describe the sighting in his or her own manner, using either separate sheets or the back of this form.)

1. Name of observer..... Thelma Williams Age. 38
2. Address of observer. 90 SUSAN'S CRESCENT, RARE
..... WILLIAMTOWN NSW Phone. 651221 EXT 2627
3. Occupation of observer.. HOME DUTIES
4. Date and time of start of observation.... ABOUT 2005 17/7/73
- How certain is the date? .. VERY CERTAIN
- How accurate is the time of start? .. ± 5 MINUTES
5. Duration of observation..... 5 MINS
- How accurate is your estimate? .. A ROUGH ESTIMATE
6. Observer's location at time of sighting.....
..... ABOVE ADDRESS
- How familiar is observer with this locality? ..
..... VERY FAMILIAR
7. Weather conditions at time of observation.....
..... PARTLY OVERCAST
8. Describe any aids/equipment used in the observation.....
..... NONE
9. Where was object first observed:
- a. Relative to your surroundings..... DUE EAST
- b. Angle of elevation..... 45°
- c. Compass angle bearing..... 90°
- d. How accurate are these estimates? .. REASONABLY
10. What first attracted observer's attention?.....
..... F1T LT CAMERON ASKED ME TO LOOK
11. If there was more than one light/object:
- a. How many were there?..... N/A
- b. In what formation were they?..... NA
12. What was the colour of the light or object?..... YELLOW/ORANGE
13. What was the brightness? (Compare with full moon or common light source at a stated distance eg, ordinary street light at 100 yards)
..... A BIT BRIGHTER THAN A STAR
14. What was the apparent size at nearest approach:
- a. Relative to Venus or Moon. ROUGHLY THE SIZE OF VENUS ..
- b. Relative dimensions in inches at arm's length (about 20 inches from the eyes). NOT QUITE 1/4"

..... HQ WLM (Unit)..... A F BLACKBURN (Name)
..... 30 Jul 73 (Date)..... F1T LT (Rank)

- 15. What were the bearing and elevation angles at nearest approach and how were these values assessed?..... *N/A*
- 16. Was any method of propulsion obvious?..... *N/A*
- 17. Describe any sound heard, including changes in pitch and intensity..... *N/A*
- 18. What was the maximum and minimum angle of elevation (or height, if an estimate can be justified)?..... *AS AT (9)*
- 19. What was the maximum and minimum angular velocity (or speed, if an estimate can be justified)? If necessary, compare with the movement of familiar objects at stated distances..... *N/A*
- 20. Give duration of any stationary phases..... *A MATTER OF SECONDS*
- 21. Describe any deviations or manoeuvres..... *MOVED LEFT & RIGHT & A CIRCULAR MOTION*
- 22. Describe any trail of exhaust, vapour or light seen..... *N/A*
- 23. Where was the object last observed:
 - a. Relative to your surroundings.....
 - b. Angle of elevation..... *AS (9)*
 - c. Compass angle bearing.....
- 24. What was the manner of its disappearance?..... *N.O.T KNOWN*
- 25. Do you know of any associated physical evidence (such as fragments, photographs, scorching, ground indentations, residual magnetism or radioactivity etc.)..... *N/A*
- 26. State any training which enables observer to be reasonably certain of his/her ability to estimate angles and angular velocity..... *NONE*
- 27. How many witnesses to the sighting?..... *2*
- 28. Do you know of witnesses to similar sightings in the area?..... *N/A*
- 29. What natural phenomenon (or phenomena) would be nearest to explaining your observation?..... *NONE*
- 30. What are your main reasons for excluding this explanation?..... *N/A*
- 31. Please sketch the light/object with all details. If appropriate, sketch position and/or movement of object in relation to your surroundings. Use back of form.

Signature..... *William*

Date..... *27/7/73*

..... *H&WLM* (Unit)..... *A.F. BLACKBURN* (Name)

..... *30 Jul 73* (Date)..... *7LT LT* (Post)

(2)

Part 2 - Unit Evaluation

- 32. The following military aircraft were in the vicinity of the reported UFO position at the time:
 A/C type.....*N/A*.....(1).....(2).....(3)
 Heading.....T.....T.....T
 Height.....,000 ft.....,000 ft.....,000 ft
 Speed.....K.....K.....K
 ATD/ATA*.....hrs.....hrs.....hrs
- 33. The following civil aircraft were in the vicinity of the reported UFO position at the time:
 A/C type.....*N/A*.....(1).....(2).....(3)
 Heading.....T.....T.....T
 Height.....,000 ft.....,000 ft.....,000 ft
 Speed.....K.....K.....K
 ATD/ATA*.....hrs.....hrs.....hrs
 *Give location of nearest ATD or ATA.
- 34. Observer's Location: Latitude.....*32° 48'*.....Longitude.....*151° 48'*
- 35. Give bearing and elevation of any planets and major stars that were in that portion of the sky at the time. By day, give location of Venus only. *JUPITER AZ 100° EL 25°*
- 36. A meteorological balloon was released from.....*N/A*.....
 at.....Z...Colour.....Weight.....gm
 Radio-sonde**/radar**; Candle**/battery** (**delete as required)
 General wind profile.....
 Maximum height tracked.....,000 ft at.....Z
 Was it known to have burst?.....
- 37. The first significant temperature inversion was of *1/2* °C at *2-3000 ft - n5000* ft, measured at.....*1100*.....Z hrs from.....*RAAF*.....
WILLOWTON station.
- 38. Any remarks on satellites, rockets, research balloons, comets, meteorites etc relevant to the sighting.....*None forecast*
- 39. When an aircraft is a possible identification, include radar trace if available, and ascertain which of the aircraft lights were operating.....
- 40. The cause (or likely cause) of the sighting ~~is~~/cannot* be determined.
- 41. The object reported probably was*/may have been* (delete as required).....

.....*H&WLM*.....(Unit).....*A.F. BLACKBURN*.....(Name)
*30 Jul 73*.....(Date).....*FLT LT*.....(Rank)

25 Jun 73

SIGHTING # 13

nsw/vic

VARIOUS

PRIORITY

NNNVV (LRA661) UU

PP RAYWPP

IE RAYPSL 724 2070641

ZNR UUUUU

P 260630Z JUL 73

FM HQESL

TO RAYGC/HQSC

RAYWPP/DEPAIR ✓

BT

UNCLAS

A302/CFS

UNIDENTIFIED FLYING OBJECT SIGHTING IN THE SALE AREA ON THE 25JUL73
 PD TWO OBSERVERS SIGHTED THE OBJECT AT APPROX 1905K HOURS PD SIGHTING
 COINCIDES WITH REPORTS OF A METEORITE SEEN THROUGHOUT VICTORIA
 AND SOUTHERN NSW AT THE SAME TIME PD OTHER PERSONS IN THE AREA
 REPORTED OBSERVING A LARGE METEORITE AT APPROX 1900K PD NO FURTHER
 INVESTIGATION IS BEING UNDERTAKEN

BT

JOINT COMCEN 73 JUL 26 9 47
 CAMPERRA
 JUL 26 09 39:73

JMM
[Signature]

RECEIVED
 27 JUL 1973
 DAFI

NNNN

are they
 as meteors or shooting
 stars.
 The majority burnt up
 before reaching the earth
 and most of those that did
 fall were not seen.

SMH 27 Jul 73

Meteorite may have landed near Deniliquin

By Our Science Reporter

The blazing meteorite seen sweeping across NSW on Wednesday night is now believed to have landed west of Deniliquin.

Many reports placed it somewhere in the CSIRO's 7,000-acre Faulkner Memorial Field Station, 16 miles from Deniliquin, but the land is waterlogged and all search operations have had to be abandoned.

A worker at the station, Mr Percy Peers, said it would take at least six weeks for the land to dry out.

Mr Peers said he had heard the meteorite coming over on Wednesday night.

"It sounded like a jet flying low and breaking the sound barrier, and then there were two big thumps."

Two geologists from the Australian Museum are planning to leave Sydney as soon as any remains of the meteorite are found.

They are Mr Oliver Chalmers, the former curator of minerals and rocks, and Mr Lin Sutherland, the present curator, who want to collect specimens for research.

Mr Chalmers was directly involved in work on the last known meteorite to fall in Australia at Murchison, 85 miles north of Melbourne, in 1969.

This proved to be a rare carbonaceous stony meteorite and was particularly interesting as it contained a type of amino acid not found on earth.

Mr Chalmers said this had indicated for the first time that there were possibilities of chemical evolution and the subsequent evolution of life in outer space.

Mr Chalmers said that since the first meteorite discovery in Australia—at Barratta near Deniliquin in the late 1840s—about 180 had been found but only 10 had been seen falling.

He said they originated 200 million miles from earth in the asteroid belt between Mars and Jupiter.

Thousands entered the earth's atmosphere every day. They were seen at night rapidly moving across the sky and were known as meteors or shooting stars.

The majority burnt up before reaching the earth and most of those that did fall were not seen.

He said it was estimated that one meteorite fell every year in every 400,000 square miles, which was about the area of South Australia.

They could weigh up to 85 tons. The biggest found in Australia weighed 12 tons, near Perth.

The bright glow of a meteorite was caused by the heat generated by friction with the atmosphere continuously melting the

outermost layers of the meteor which streamed off behind as a luminous tail.

He said the loud noise was caused by air rushing in to fill the vacuum left behind the meteorite.

Mr Sutherland said the sightings of bright objects in the Bathurst and Wagga Wagga areas were probably pieces falling from the main body of the meteorite.

18 MAR 78

SIGHTING # 12

MASCOT

C.E. KEARNS

NSW.

OUR FILE

5801/1 P-20

FOLIO

125

FROM

DEPAR (DAR)

DATE

22 Oct 73

REFERENCES

H000C
S/151/A.R/W
CF 16344.73

TO

H000C

ATTENTION

CONTINELLO

SUBJECT

Reports of Unusual Aerial Sightings

Enclosed, for your records, is a copy of a letter from this Department to Mr C E Keenan in reply to his report of an unusual aerial sighting.

ENCLOSURE Copy of letter to Mr C E Keenan

SIGNATURE

[Signature]

PRINTED NAME

M GREGGIAN

RANK

Flt Off

APPOINTMENT

124

PHONE EXT

208

580/1/1 Pt26 (12a)

18 OCT 1973

Mr C.E. Kearns
5 Cartwright Avenue
MILLER NSW 2168

Dear Sir,

With reference to the unusual aerial sighting made by yourself on 18th March 1973, the investigating team has studied the detailed report and hypotheses, but regret that a determination has not been resolved.

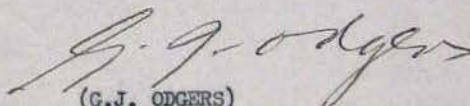
Normally, logical explanations are available in answer to sightings, and in this instance, there is a similarity to previous reports from meteorological observers from Australia and overseas. Explanations for those sightings were normally that the observer had sighted objects such as thistledown or bird(s) which were of much closer proximity to the viewing position than the observer assessed.

In this particular case, because of the rapid transit of the object through an arc of 196° at virtually constant elevation the investigating team is of the opinion that the object sighted was relatively close to the viewing position (no more than .5 kilometres). This allows for a maximum speed of approximately 100 kilometres per hour, which is within the parameters of flight for a racing pigeon, and the closer the object to the viewing position, the slower the required speed to transit the arc.

We discount the possibility that the object was a satellite, meteorite or aircraft, due to the constant elevation, and the existence of extraterrestrial 'space ships' has yet to be proven.

Thanking you for your interest,

Yours faithfully,


(G.J. ODGERS)
Director of Public Relations

NOA
Rec'd by DKK

19.10.73



ROYAL AUSTRALIAN AIR FORCE

DEPT. OF AIR
580-1-1
DAFI
18.7.73

TELEPHONE: PENRITH [redacted] 311,311

TELEGRAPHIC ADDRESS:
"AIRCOMMAND, SYDNEY"

HEADQUARTERS OPERATIONAL COMMAND
RAAF

[redacted]
PENRITH NSW 2750
18th July 1973

IN REPLY QUOTE 5/15/1/Air(4)

Department of Air (Attn: DAFI) CANBERRA

UNUSUAL AERIAL SIGHTINGS

refers to 580/1/1 PT-23 (13)

Enclosed are reports of unusual aerial sightings submitted by Mr. Nigel van Hamburg and Mr. Clarence Edward Kearns. Part 2 of the report submitted by Mr. Kearns has not been completed due to the time lapse between the sighting and its receipt at this headquarters.

Kearns
(K.D. CLARK)
Squadron Leader
for Air Officer Commanding

Enclosure: Two UFO Reports

RECEIVED
25 JUL 1973
DAFI

REPORT ON UNUSUAL AERIAL SIGHTING

Part I - Report by Observer

(As a preliminary to completing this form, the observer is invited to describe the sighting in his or her own manner, using either separate sheets or the back of this form.)

1. Name of observer..... CHARNOCK EDWARD KEARNS Age..... 38
2. Address of observer..... 5 CARTWRIGHT AVENUE, MILLER 2169
..... NEW SOUTH WALES Phone.....
3. Occupation of observer..... METEOROLOGICAL OBSERVER 1630K
4. Date and time of start of observation..... 18TH MARCH 1973 / APPROX 0630Z
How certain is the date?..... DATE IS CORRECT
How accurate is the time of start..... WITHIN ONE MINUTE
5. Duration of observation..... 1 MINUTE
How accurate is your estimate?..... PRECISE STOP WATCH USED
6. Observer's location at time of sighting..... PILOT BALLOON OBSERVATION
..... TOWER METEOROLOGICAL OFFICE MASCOT AIRPORT
How familiar is observer with this locality?..... VERY FAMILIAR
7. Weather conditions at time of observation..... FINE - SKY CLEAR
..... VIS 30NM PLUS
8. Describe any aids/equipment used in the observation.....
..... PILOT BALLOON THEODOLITE USING 20X LENS
9. Where was object first observed:
(a) Relative to your surroundings..... EAST NORTH EAST
(b) angle of elevation..... 21°
(c) compass angle bearing..... 066°
(d) how accurate are these estimates..... VERY ACCURATE
10. What first attracted observer's attention?..... WAS IN PROCESS OF
DOING 0500Z PILOT BALLOON FLIGHT. BALLOON WAS AT ABOUT 63000 FT
AND WAS USING 20X LENS ON THEODOLITE AND OBJECT PASSED ACROSS FIELD
OF VISION
11. If there was more than one light/object:
(a) how many were there?..... THERE WAS ONLY ONE
(b) in what formation were they?.....

12. What was the colour of the light or object?..... SILVERY GREY.....
13. What was the brightness? (compare with full moon or common light source at a stated distance, e.g. ordinary street light at 100 yards) UNABLE TO COMPARE WITH EXAMPLES YOU GIVE. IT DID NOT GLOW BUT APPEARED TO REFLECT LIGHT OF SUN IN SEMI TYPE
14. What was the apparent size at nearest approach: OF WAY.
- (a) relative to Venus or Moon UNABLE TO ANSWER - WAS IN AFTERNOON
- (b) relative dimensions in inches at arm's length (about 20 inches from the eyes). APPROXIMATELY 1/8" OR ABOUT SIZE OF MATCH HEAD AT ARMS LENGTH.
15. What were the bearing and elevation angles at nearest approach and how were these values assessed?..... ELEVATION 21.5° AZIMUTH 160.8°
..... By THEODOLITE READINGS.....
16. Was any method of propulsion obvious?..... NONE.....
17. Describe any sound heard, including changes in pitch and intensity..... NONE.....
18. What was the maximum and minimum angle of elevation (or height, if an estimate can be justified)?..... MAX 21.5° MIN 20.5° HEIGHT?.....
19. What was the maximum and minimum angular velocity (or speed, if an estimate can be justified)? If necessary, compare with the movement of familiar objects at stated distances. WORKED OUT ON THREE HYPOTHETICAL HEIGHTS 65,000 FT (SAME HEIGHT AS MY TARGET BALLOON WHOSE SPEED WAS 21-25 MPH 126,000 FT (TWICE HEIGHT OF TARGET BALLOON) 49,000 FT (200 MILES (AVERAGE SATELLITE HEIGHT) IN EXCESS OF 49,000 FT LOWER SPEED FIGURES REPRESENT TRIGONOMETRY RESULTS. HIGHER FIGURES RESULTS FROM PLAT BALLOON SLIDE RULE COMPUTATIONS.
20. Give duration of any stationary phases..... NONE.....
21. Describe any deviations or manoeuvres..... NONE.....
22. Describe any trail of exhaust, vapour or light seen..... NONE.....
23. Where was object last observed:
- (a) relative to your surroundings WEST. TENDING TO TRAVEL TO N.W.
- (b) angle of elevation 20.8.....
- (c) compass angle bearing 261.7.....
24. What was the manner of its disappearance? DID NOT SEE IT DISAPPEAR
HAD TO RETURN TO BALLOON TO COMPLETE PLAT BALLOON FLIGHT.
25. Do you know of any associated physical evidence (such as fragments, photographs, scorching, ground indentations, residual magnetism or radioactivity etc)..... NO.....

262
866
196

26. State any training which enables observer to be reasonably certain of his/her ability to estimate angles and angular velocity ^{FULLY TRAINED METEOROLOGICAL OBSERVER FOR 13 YEARS WITH FULL AMOUNT OF TRAINING IN USE OF PILOT BALLOON THEODOLITE, PILOT BALLOON SLIDE RULE, AND MOST TYPES OF RADAR ETC.}
27. How many witness to the sighting? ONLY MYSELF TO MY KNOWLEDGE
28. Do you know of witnesses to similar sightings in the area? NO
29. What natural phenomenon (or phenomena) would be nearest to explaining your observation? SPACE DEBRIS OR SATELLITE
30. What are your main reasons for excluding this explanation? SEE EXPLANATION BELOW
31. Please sketch the light/object with all details. If appropriate, sketch position and/or movement of object in relation to your surroundings. Use back of form, if needed.

MY REASONS ARE AS FOLLOWS.

- (1) IF IT HAD BEEN, AS MENTIONED ABOVE, EITHER SOME FORM OF SPACE DEBRIS OR SATELLITE AS IT TRAVELLED ACROSS THE SKY ITS ELEVATION AS WELL AS AZIMUTH READINGS WOULD HAVE CHANGED. THAT IS THE ELEVATION WOULD HAVE INCREASED FROM THE MOMENT OF FIRST SIGHTING (ITS PERIGEE) THROUGH ITS APOGEE THEN DECREASING ONCE MORE TO ITS PERIGEE ON THE OPPOSITE SIDE AS IT WENT AWAY. BUT DURING THE OBSERVATION OF THIS OBJECT ALTHOUGH ITS AZIMUTH CHANGED RAPIDLY THE ELEVATION VARIED VERY LITTLE. FROM MEMORY A MAXIMUM OF ONE DEGREE (1°). THROUGHOUT THE SMALL AMOUNT OF TIME THIS OBJECT WAS FOLLOWED ELEVATION READINGS RANGED FROM 20.5° TO 21.5°
- (2) ~~A~~ A CONVERSATION WITH AN OFFICER OF THE SYDNEY ASTRONOMICAL OBSERVATORY ON THE FOLLOWING DAY DURING WHICH I ASKED WHAT THE CHANCES WOULD BE OF SIGHTING SUCH SPACE DEBRIS OR SATELLITE AT THAT TIME IN THE AFTERNOON WITH EQUIPMENT (INSTRUMENT) BEING USED AT THE TIME AND HIS REPLY WAS "IF ATMOSPHERIC CONDITIONS WERE PERFECT AND I WAS FOCUSED AT THE CORRECT ANGLE AT THE PRECIS TIME IT MAY HAVE BEEN POSSIBLE TO SIGHT SUCH AN OBJECT BUT THE CHANCES WOULD BE MANY THOUSANDS TO ONE TO PICK IT UP AND EVEN IF I DID IT WOULD NOT EXPLAIN THE NEXT TO ZERO CHANGE IN ELEVATION" ABOUT ANYTHING ELSE HE REMAINED NON COMMITAL.
- (3) ITS SPEED WAS BASED ON THREE HYPOTHETICAL HEIGHTS BY TWO METHODS (A) TRIGONOMETRY (B) PILOT BALLOON SLIDE RULE. THE THREE HEIGHTS WERE 63,000 FT - 126,000 FT AND 200 MILES. THE RESULTANT SPEEDS WERE 21-2800 KPH - 42-5600 KPH AND IN EXCESS OF 49,000 KPH. NONE OF THESE SPEEDS, TO MY KNOWLEDGE, ARE CONSISTANT WITH MAN MADE SPACE DEBRIS OR SATELLITES. THE FIRST APPEARS TO SLOW THE LATTER TO FAST.

Signature C. E. Khan Date 6 JUNE 73

7/13TH APRIL 73

SIGHTING # 11

TARGA

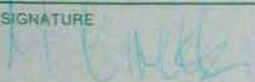
TAS

C. BARNETT

Royal Australian Air Force A273 Feb 70 MEMO		For use within the RAAF only Write or print clearly	OUR FILE 580/1/1 P-26	FOLIO 115
FROM Depone (DAP)		DATE 24 AUG 73	REFERENCES S/1A/10 (56) DT 11 Jul 73	
TO TASMANIAN SQUADRON ATC		ATTENTION		
SUBJECT REPORTS OF UNUSUAL AERIAL SIGHTINGS				

Enclosed, for your records, is a copy of a letter from this Department to Mr C Barnett in reply to his report of an unusual aerial sighting.

ENCLOSURE Copy of letter to Mr C Barnett

SIGNATURE 	PRINTED NAME M. GRETTON	RANK FLS OFF	APPOINTMENT IR 2	PHONE EXT 220
---	----------------------------	-----------------	---------------------	------------------

22 AUG 1973

580/1/1 Pt26 (11a)

Mr C. Barnett,
Targa
TASMANIA 7257

Dear Sir,

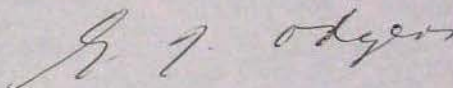
With reference to your report of unusual aerial sightings on 7th and 13th April 1973, the investigating team has determined that the most probable cause of the first sighting was an ELECTRA aircraft, but the second sighting could not be fully evaluated due to lack of information supplied.

On the evening of 7th April, an Electra aircraft departed Launceston for Melbourne at 6.35 PM. The track of the aircraft was to the east of the East Tamar Highway and corresponds to the path of the object sighted. The lights seen would have been the lower anti-collision light (red) and the white identification light, and the duration of observation coincides with the approximate time that an Electra aircraft would take to cross the field of view from the sighting position.

We regret that we cannot adequately assess the second reported sighting as you were apparently less clear of the details of that sighting. Although a BAC-111 aircraft departed Launceston for Canberra at 6.21 PM on the 13th April, it is estimated that at 6.25 PM the aircraft would have been passing an altitude of 8000 feet and due to the cloud cover on that evening would not have been visible to you.

We trust that the explanation is satisfactory and if additional information relating to the second sighting is forthcoming from any source, we will investigate further.

Yours faithfully,



(G.J. ODGERS)
Director of Public Relations

H
Alf
Dain
2 Aug 73

How
2000
22 Aug 73
X



ROYAL AUSTRALIAN AIR FORCE

237686

Tasmanian Squadron Air Training Corps
RAAF
8 Fitzroy Place
HOBART TAS 7005

5/1/Air(56)

11th July 1973

Department of Air (1R2)

UNUSUAL AERIAL SIGHTING

- References: A. HQSC 5/6/1/Air(3) of 13th June 1973
B. HQSC 5/6/1/Air(55) of 3rd May 1973

Enclosed is unusual aerial sighting report completed at parts 1 and 2 in accordance with References A and B.

(R.J. DOONAN)
Flight Lieutenant
for Commanding Officer

Enclosure: 1. Report of Unusual Aerial Sighting.



RESTRICTED

REPORT ON UNUSUAL AERIAL SIGHTING

Part 1 - Report by Observer

(As a preliminary to completing this form, the observer is invited to describe the sighting in his or her own manner, using either separate sheets or the back of this form.)

1. Name of observer..... MR. CHARLES BARNETT..... Age..... 18.....
2. Address of observer..... TARGA.....
..... PHONE 993368 (for message)..... Phone.....
3. Occupation of observer... Farmer.....
4. Date and time of start of observation... 6.30 p.m. Friday 13th April (2nd)
6.30 PM Sat 7 Apr 73 (1st)
How certain is the date?..... Very.....
How accurate is the time of start?... Reasonably accurate.....
5. Duration of observation... about 30 secs. (BOTH SIGHTINGS).....
How accurate is your estimate?... Reasonably.....
6. Observer's location at time of sighting... Farmhouse near Patrick River
bridge near commencement of Sidling.....
How familiar is observer with this locality? Lived in area 16 years.....
7. Weather conditions at time of observation... overcast cloud (2nd)
clear sky (1st).....
8. Describe any aids/equipment used in the observation... Nil.....
9. Where was object first observed? :
 - a. Relative to your surroundings... Glanced up and saw object..... from W.S.W. passed overhead and slightly to north..... } BOTH SIGHTINGS
 - b. angle of elevation... 35° - 40° (1st SIGHTING) 10° - 15° (2nd)
 - c. compass angle bearing... N/A.....
 - d. how accurate are these estimates?..... ESTIMATE ONLY.....
10. What first attracted observer's attention?... A red and white light
FLASHING.....
11. If there was more than one light/object :... NO.....
 - a. how many were there?..... one.....
 - b. in what formation were they?..... NONE.....
12. What was the colour of the light or object?... Red and white light
FLASHING.....

RESTRICTED

RESTRICTED

- 13. What was the brightness? (compare with full moon or common light source at a stated distance, e.g. ordinary street light at 100 yards)
..... Brighter than full moon
- 14. What was the apparent size at nearest approach? :
a. relative to Venus or Moon..... ^{size} ~~size~~ of a star
- b. relative dimensions in inches at arm's length (about 20 inches from the eyes)..... ^{N/A}
- 15. What were the bearing and elevation angles at nearest approach and how were these values assessed?..... ^{35°-40° ELEVATION (ESTIMATE)}
- 16. Was any method of propulsion obvious?..... No
- 17. Describe any sound heard, including changes in pitch and intensity
..... No sound
- 18. What was the maximum and minimum angle of elevation (or height, if an estimate can be justified)?..... Height about 800 ft.
- 19. What was the maximum and minimum angular velocity (or speed, if an estimate can be justified)? If necessary, compare with the movement of familiar objects at stated distances... No estimate. (Similar object sighted approx. 6.30 P.M. Saturday 7th April) ^{FLASHING RED + WHITE LIGHT} ~~In this case, object appeared to remain stationary for 30 seconds~~
- 20. Give duration of any stationary phases..... ..
- 21. Describe any deviations or manoeuvres..... ^{NONE (BOTH SIGHTINGS)}
- 22. Describe any trail of exhaust, vapour or light seen ^{Nil exhaust or vapour}
- 23. Where was object last observed :
a. relative to your surroundings ^{Over trees in direction of Sidling (towards Scottsdale)}
- b. angle of elevation..... ^{35-40°}
- c. compass angle bearing..... ^{TO THE NORTH-EAST}
- 24. What was the manner of its disappearance? ^{Passed below tree line?}
- 25. Do you know of any associated physical evidence (such as fragments, photographs, scorching ground indentations, residual magnetism or radioactivity etc)..... No
- 26. State any training which enables observer to be reasonably certain of his/her ability to estimate angles and angular velocity.. Nil.....
- 27. How many witness to the sighting?.. 2

Sister - Rose Barnett Age 12
Grandmother - Mrs. E.M. Harrison age 60 approx.

28. Do you know of witnesses to similar sightings in the area? 2 Page 2.....
29. What natural phenomenon (or phenomena) would be nearest to explaining your observation?..... None.....
30. What are your main reasons for excluding this explanation?..... N/A.....
-
31. Please sketch the light/object with all details. If appropriate, sketch position and/or movement of object in relation to your surroundings. Use back of form, if needed.

Signature... S. SAMBELL (Soc)..... Date... 14th APRIL 1973.....

Part 2 - Unit Evaluation

32. The following military aircraft were in the vicinity of the reported UFO position at the time: *(SECOND SIGHTING)*

A/C type... *B4C 111* (1).....(2).....(3)

Heading... *N-6*.....T.....T.....T

Height... *about 14000 ft*.....,000 ft.....,000 ft.....,000 ft

Speed... *NOT KNOWN*.....K.....K.....K

ATD/ATA... *LN 1821 K*.....hrs.....hrs.....hrs

33. The following civil aircraft were in the vicinity of the reported UFO position at the time: *(FIRST SIGHTING)*

A/C type... *ELECTRA* (1).....(2).....(3)

Heading... *N-E*.....T.....T.....T

Height... *about 8000 ft*.....,000 ft.....,000 ft.....,000 ft

Speed... *NOT KNOWN*.....K.....K.....K

ATD/ATA... *LN 1820 K*.....hrs.....hrs.....hrs

* Give location of nearest ATD or ATA

34. Observer's Location : Latitude... *147° 25' E*.....Longitude... *41° 18' S*

35. Give bearing and elevation of any planets and major stars that were in that portion of the sky at that time. By day, give location of Venus only..... *SEE REPORT*

36. A meteorological balloon was released from... *LN (BOTH SIGHTINGS)*

at... *0330*.....Z Colour... *WHITE*.....Weight... *NOT KNOWN* gm

Radio-sonde ~~*/~~ radar ~~**~~ : *Candle* ~~*/~~ battery ~~**~~ (** delete as required)

General wind profile... *WESTLY*

Maximum height tracked.....,000 ft at.....Z

Was it known to have burst? *YES*

37. The first significant temperature inversion was of... *2* °C at *5000* ft, measured at... *1700* Z hrs from... *LAWCESTON* station *(BOTH SIGHTINGS)*

38. Any remarks on satellites, rockets, research balloons, comets, meteorites etc. relevant to the sighting... *NIL*

39. When an aircraft is a possible identification, include radar trace

- 28. Do you know of witnesses to similar sightings in the area?.....
- 29. What natural phenomenon (or phenomena) would be nearest to explaining your observation?.....
- 30. What are your main reasons for excluding this explanation?.....
- 31. Please sketch the light/object with all details. If appropriate, sketch position and/or movement of object in relation to your surroundings.
Use back of form, if needed.

Signature.....

Date.....

if available, and ascertain which of the aircraft lights were
operating..... *NO RADAR AVAILABLE - ALL LIGHTS ON*

40. The cause (or likely cause) of the sighting can*/cannot* be determined.

41. The object reported probably was*/may have been* (delete as required)
SEE REPORT.

TASAC (LANCETON).....(Unit)..... *Hughes*.....(Name)
27 Jan 73.....(Date)..... *PL-45*.....(Rank)

INVESTIGATING OFFICER'S REPORT ON
THE SIGHTING OF UNUSUAL AERIAL OBJECTS
NEAR TARGA ON 7TH AND 13TH APRIL 1973

INTRODUCTION

1. On the 14th April 1973, the Senior Operations Controller (SOC), Mr S. SAMBELL, at LAUNCESTON Airport received a telephone call from Mr C. BARNETT of TARGA (situated 16NM North-North-East of LAUNCESTON). Mr BARNETT reported the sighting of an unusual aerial object at 1830K on Friday 13th April 1973. During the telephone conversation, Mr BARNETT mentioned a similar sighting that he made at 1830K on Saturday 7th April 1973.
2. The SOC, Mr SAMBELL, completed Part I of the 'Report on Unusual Aerial Sighting' and dispatched it through Department of Civil Aviation (DCA) channels. This report was returned to this unit for investigation.

STATEMENT BY THE WITNESS

3. The investigating officer interviewed Mr BARNETT on Friday 18th May 1973. Mr BARNETT was still clear as to the details of the first sighting, but not the second. As two similar sightings were reported, each of these will be discussed separately.

First Sighting

4. Mr BARNETT said that he was standing near his farm house when his was attracted by a flashing red and white light. The light approached from the West-South-West passed his field of view to the North and disappeared to the North-East. The angle of elevation of the light was about 35° to 40°. On questioning, Mr BARNETT said that the light did not remain stationary, but travelled across his field of view. Mr BARNETT estimates the duration of the sighting at about 30 seconds. He said that he did not report this sighting at the time and he forgot about it until the second sighting.

Second Sighting

5. Mr BARNETT stated that he was standing near his farm house when he noticed a flashing red and white light. The light appeared from the West, passed across his field of view and disappeared to the North-East over a ridgeline. The angle of elevation of the light was low and is estimated to have been about 10° to 15°. The duration of the observation is estimated to have been 30 seconds. Mr BARNETT said that there was low cloud in the area at the time. Mr BARNETT then telephoned DCA to report his sightings.

QUALITY OF THE EVIDENCE

6. Mr BARNETT was interviewed by the investigating officer and appeared to be a sensible person. The witness recalled clearly the facts of the first

/sighting

sighting, but appeared to be unsure of some of the facts regarding the second sighting.

POSSIBLE EXPLANATIONS

7. The following aspects were considered in attempting to find satisfactory explanations:

- Handwritten note:*
Range of 8000
more like 8000
in minutes?
- a. Aircraft. First sighting - An Electra aircraft departed LAUNCESTON for MELBOURNE, and is estimated to have passed to the North of TARGA at 1835K. The aircraft is estimated to have been climbing through 8000 feet at 1835K.
Second sighting - An RAAF BAC 111 departed LAUNCESTON for CANBERRA at 1821K. The aircraft is estimated to have passed to the North of TARGA at 1825K, and been climbing through 14,000 feet.
 - b. Visible Satellites. There were no visible satellites at the times of either sighting.
 - c. Meteorological Balloons. On the dates of both sightings, meteorological balloons were released from LAUNCESTON airport at 1430K. With the prevailing winds present on both sightings, the meteorological balloons would have drifted well to the East by the time the sightings were made.
 - d. Local Phenomenon. There is no local phenomenon that may have affected the two sightings.
 - e. Meteorological Conditions. At 1700K on the dates of both sightings the weather conditions at LAUNCESTON were recorded as:

First sighting: Surface wind - 230/2kts
Visibility - 30NM
Cloud - $\frac{2}{8}$ Sc 5000ft, $\frac{1}{8}$ Ci 30000ft.
Inversions - a 2^oc inversion at 5000ft.

Second sighting: Surface wind - 320/4kts
Visibility - 15NM smoke haze
Cloud - 8/8Cu and Sc at 2500ft
Inversions - 2^oc inversion at 5000ft

Although these weather conditions apply to LAUNCESTON, they may be considered to have applied in the area of TARGA at the times of the sightings.

- f. Celestial Bodies. At the times of both sightings the planet Saturn was at an angle of elevation of 30° in the North-North-West sky and barely visible to the naked eye. On both occasions, the planet Venus was very low on the Western horizon. Neither of these two planets are considered to have any bearing on the sightings.

/CONCLUSIONS

CONCLUSIONS

First Sighting

8. The most probable cause of the first sighting was the flashing navigation or anti-collision lights of the Electra aircraft enroute to MELBOURNE. At the time of the observation, the aircraft is estimated to have been to the North of TARGA at about 8000 feet. This would explain the angle of elevation of the observation. The duration of the observation coincides with the approximate time an aircraft, at that height, speed and distance from the observer would take to cross his field of view.

Second Sighting

9. The investigating officer cannot put forward a reasonable explanation for the cause of the second sighting. The BAC 111 aircraft can be discounted because it would not have been visible to the observer because of cloud cover. In addition, the witness was quite positive that he observed the flashing light at a low angle of elevation, because the low ridgeline to the North of his farm (about $\frac{1}{2}$ mile) was just visible above the light.

10. The investigating officer discounts the possibility of a low flying light aircraft at that time because of the lack of engine noise, low cloud in the area and the onset of darkness.

11. As the observer was not clear on some details of the second sighting, the investigating officer cannot put forward an explanation due to lack of sufficient reliable information.

M. J. Haxell
(M. J. HAXELL)
Flight Lieutenant
Investigating Officer

TASATC (LAUNCESTON)
27th June 1973

17 JUN 73

0-20.00

SIGHTING # 10

ALLORA
QW

M.C. COX

A 73

Feb
70

MEMO

For use within the RAAF only
Write or print clearly

OUR FILE

5801/1 P. 261

FOLIO

106

FROM

DEPAIR (DAMI)

DATE

1st AUG 73

REFERENCES

82W/5/1/1/1
(3A) or 6502/73

TO

MOAMS

ATTENTION

82 W10

SUBJECT

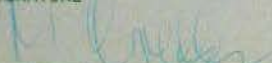
REPORTS OF UNUSUAL AERIAL SIGHTINGS

1. Enclosed for your records, is a copy of a letter from this Department to Mr. M C Cox in reply to his report of an unusual aerial sighting

2. Also enclosed is a summary of investigations for 1972, as requested

ENCLOSURES: 1. Copy of letter to Mr. M C Cox
2. Summary of investigations for 1972

SIGNATURE



PRINTED NAME

M. CRETTON

RANK

FLY OFF

APPOINTMENT

IR 2

PHONE EXT

2408

580/1/1 Pt26 (10a)

17 JUN 1973

Mr M.C. Cox,
Flat 2,
83 Curzon Street,
TOOWOOMBA QLD 4350

Dear Sir,

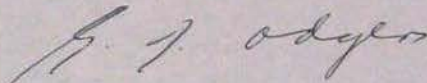
With reference to your report of an unusual aerial sighting on 17th June 1973, it has been determined that the most probable cause was the star CANOPUS.

At the time of the sighting, CANOPUS was at an elevation of about 10° with a magnitude of -1, and would have been visible to you to the south-west moving further to the south. This apparent movement of the star corresponds with your description of the sighting.

Pollutants in the atmosphere, held down by a 3.5°C temperature inversion recorded at 6000 ft, would account for the flashing effect of the light.

We trust that this explanation is satisfactory and thank you for your report.

Yours faithfully,



(G.J. ODGERS)
Director of Public Relations


Handwritten note:
10 Aug 73

Handwritten note:
Loop by B.S. 73

FROM HQAMB	FILE 82w/5/9/Air (39)	DATE 16 Jul 73	REFERENCES
TO DEPAIR		ATTENTION DAFI-IR	
SUBJECT UFO REPORTS			

1. Forwarded is one copy each of UFO reports by Mr M.C. COX and Mr H.S.D. AUSTIN. Also included is a summary of identifiable sightings made recently.

- Enclosures:
1. Report by Mr M.C. COX
 2. Report by Mr H.S.D. AUSTIN
 3. 82w/5/9/Air (36)

SIGNATURE 	NAME R.M. Brennan	RANK Sgt/Lt	APPOINTMENT W/O	PHONE NO 2357
---	----------------------	----------------	--------------------	------------------

RESTRICTED

REPORT ON UNUSUAL AERIAL SIGHTING

INTERVIEWED BY
FLYLT R.J. SALMOND
5 JUL 73

Part I - Report by Observer

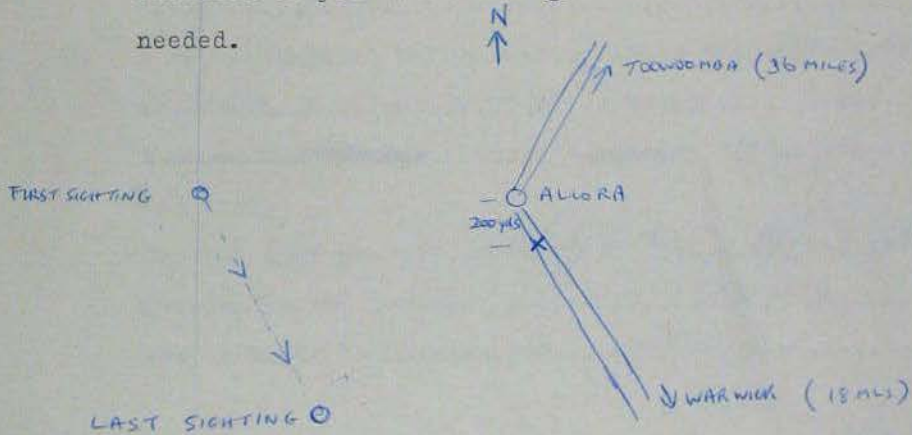
(As a preliminary to completing this form, the observer is invited to describe the sighting in his or her own manner, using either separate sheets or the back of this form.)

1. Name of Observer... MICHAEL CHARLES COX Age... 23
2. Address of Observer... FLAT 2 83 CURZON ST
..... TOSWICK Phone... 341034
3. Occupation of Observer... PLANT BREEDER DPI QLD WHEAT RESEARCH INSTITUTE
4. Date and time of start of observation... 17 JUN 73 2100
How certain is the date?... CERTAIN
How accurate if the time of start?... ± 10 MINS
5. Duration of observation... 10 MINS
How accurate is your estimate?... ± 5 MINS
6. Observer's location at time of sighting... MOVING CAR
..... AND LATER STATIONARY CAR
How familiar is observer with this locality?... VERY
7. Weather conditions at time of observation... FINE WITH
..... HIGH MISTY CLOUD
8. Describe any aids/equipment used in the observation... NIL
9. Where was object first observed:
 - (a) Relative to your surroundings... THROUGH LEFT HAND
..... SIDE OF FRONT WINDOW OF CAR TRAVELLING NORTH WEST
 - (b) angle of elevation... 20° ± 10°
 - (c) compass angle bearing... 270° ± 30°
 - (d) how accurate are these estimates... see above
10. What first attracted observer's attention?... VERY BRIGHT
..... FLASHING LIGHT.

RESTRICTED

- 11. If there was more than one light/object: *N/A*
 - (a) how many were there?.....
 - (b) in what formation were they?.....
- 12. What was the colour of the light or object? *WHITE*.....
- 13. What was the brightness? (compare with full moon or common light source at a stated distance, e.g. ordinary street light at 100 yards). *BRIGHTER THAN MOON*
ABOUT SAME AS STREET LIGHT AT 100 YDS.....
- 14. What was the apparent size at nearest approach:
 - (a) relative to Venus or Moon. *1/2 DIAMETER OF MOON*.....
 - (b) relative dimensions in inches at arm's length (about 20 inches from the eyes). *1"*.....
- 15. What were the bearing and elevation angles at nearest approach and how were these values assessed? *DID NOT*
APPROACH.....
- 16. Was any method of propulsion obvious? *NO*.....
- 17. Describe any sound heard, including changes in pitch and intensity. *NO SOUND - MOTOR OF CAR TURNED OFF*.....
- 18. What was the maximum and minimum angle of elevation (or height, if an estimate can be justified)? *CONSTANT ELEVATION*.....
- 19. What was the maximum and minimum angular velocity (or speed, if an estimate can be justified)? If necessary, compare with the movement of familiar objects at stated distances. *3° per minute in southerly direction*.....
- 20. Give duration of any stationary phases. *NIL but forward movement not smooth*.....
- 21. Describe any deviations or manoeuvres. *NIL*.....
- 22. Describe any trail of exhaust, vapour or light seen.....
NIL.....
- 23. Where was object last observed:

- (a) relative to your surroundings.....
- (b) angle of elevation..... $20^{\circ} \pm 10^{\circ}$
- (c) compass angle bearing..... $240^{\circ} \pm 30^{\circ}$
- 24. What was the manner of its disappearance?..... OBSERVER CEASED WATCHING
- 25. Do you know of any associated physical evidence (such as fragments, photographs, scorching, ground indentations, residual magnetism or radioactivity etc)..... NO
- 26. State any training which enables observer to be reasonably certain of his/her ability to estimate angles and angular velocity..... NIL
- 27. How many witness to the sighting?..... ONE OTHER PERSON
- 28. Do you know of witnesses to similar sightings in the area?..... OBSERVER HAS HEARD OF WITNESSES BUT DOES NOT KNOW THEM BY NAME
- 29. What natural phenomenon (or phenomena) would be nearest to explaining your observation?..... AIRCRAFT WITH FLASHING LIGHTS (HELICOPTER)
- 30. What are your main reasons for excluding this explanation?..... BRIGHTNESS OF LIGHT . IRREGULARITY OF SPEED .
- 31. Please sketch the light/object with all details. If appropriate, sketch position and/or movement of object in relation to your surroundings. Use back of form, if needed.



Signature..... Date.....

Part 2 - Unit Evaluation

32. The following military aircraft were in the vicinity of the reported UFO position at the time:

A/C type.....(1).....(2).....(3)
Heading.....T.....T.....T
Height.....*NIL*,000 ft.....,000 ft.....,000ft
Speed.....K.....K.....K
ATD/ATA*.....hrs.....hrs.....hrs

33. The following civil aircraft were in the vicinity of the reported UFO position at the time:

A/C type.....(1).....(2).....(3)
Heading.....T.....T.....T
Height.....*NIL*,000 ft.....,000 ft.....,000ft
Speed.....K.....K.....K
ATD/ATA*.....hrs.....hrs.....hrs

* Give location of nearest ATD or ATA.

34. Observer's Location: Latitude *2803.5* Longitude *152.00 E*

35. Give bearing and elevation of any planets and major stars that were in that portion of the sky at that time.

By day, give location of Venus only. *CANOPUS*
210° / 10°

36. A meteorological balloon was released from *Lochs Farm*

at *1100* Z Colour *WHITE* Weight.....gm

Radio-sonde ~~**/reader~~: Candle ~~**/Battery~~ (**delete as required)

General wind profile. *Southerly to 7000', then westerly*

Maximum height tracked.....,000 ft at.....Z

Was it known to have burst?.....*unknown*

.....15.

- 37. The first significant temperature inversion was of
 ... *3 1/2* °C at ... *6000* ft, measured at *1100* hrs
 from ... *Exeter Exeter* station.
- 38. Any remarks on satellites, rockets, research balloons,
 comets, meteorites etc. relevant to the sighting.....
 *NIL*
- 39. When an aircraft is a possible identification, include
 radar trace if available, and ascertain which of the
 aircraft lights were operating. *No radar trace. No*
lights were in area.
- 40. The cause (or likely cause) of the sighting can ~~*/cannot*~~
 be determined.
- 41. The object reported probably was ~~*/may have been*~~ (delete
 as required)
Apparent movement of Comets due atmospheric.

See written report.

..... *82 wing* (Unit) *R. A. Barron* (Name)

..... *11th July 73* (Date) *Sgt Ldn* (Rank)

UFO SIGHTING AT ALLORA BY
MR M. COX ON 17TH JUNE 1973

1. This object bears a marked resemblance to the apparently moving stars received by the investigating officer, Sqn Ldr BERTRAM, at Springbrook on 31st May. The only anomaly appears to be the bearing. However, if the bearing of the first sighting, relative to the line of the road (obtained from Mr Cox's sketch) is plotted on a map, the bearing becomes 255°. Allowing for the estimated 30° error, this would bring the star Canopus within the bounds of possibility.
2. The apparent movement seems extreme, and is, in fact, greater than that observed by Sqn Ldr Bertram at Springbrook, but Mr Pilgrim, of Springbrook, has observed movements of similar magnitude. Normal atmospheric refraction would make it appear higher than the 10°.
3. The size, brightness, and irregular movement of this flashing light point to the fact that it was a star sighting affected by atmospheric conditions. A helicopter can be discounted as any helicopter flying at night in that area would be in transit and would have a straight and constant movement, and, very probably, would not have any bright white light showing.



(R.M. BERTRAM)
Squadron Leader
Wing Intelligence Officer

11th July 1973



RG-31
ALLORA/WARWICK
1:100,000

OBSERVERS
POSITION

Map labels include: Allora, Warwick, Mount Marshall, Eastmen's Ridge, Condamine River, and various place names like Rosehill, Willowvale, and Delamere Park. Grid coordinates are visible at the top and right edges.

24 JUN 73

D 2050

SIGHTING # 9

IPSWICH/BASSTON H.S.D. AUSTIN
QJ

RESTRICTED

REPORT ON UNUSUAL AERIAL SIGHTING

Part I - Report by Observer

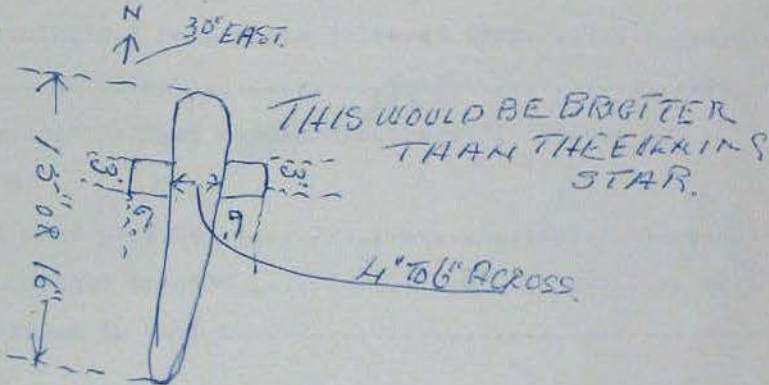
(As a preliminary to completing this form, the observer is invited to describe the sighting in his or her own manner, using either separate sheets or the back of this form.)

1. Name of Observer... H. S. DAVEN..... Age 73.....
2. Address of Observer. 25 GILLAN ST......
NORMAN PARK BRIS. (4.70)..... Phone 9514923.....
3. Occupation of Observer... RETIRED.....
4. Date and time of start of observation. 24.6.73... 9-9:30 PM.....
How certain is the date?... POSITIVE.....
How accurate if the time of start?... POSITIVE WITHIN 10 MIN.....
5. Duration of observation... THIRTY FIVE MIN.....
How accurate is your estimate?... CORRECT.....
6. Observer's location at time of sighting. DRIVING FROM.....
40 ~~TEP~~ H IPSWICH TO BRISBANE.....
How familiar is observer with this locality? FAIR.....
7. Weather conditions at time of observation. 4.00P.....
8. Describe any aids/equipment used in the observation. NIL.....
9. Where was object first observed:
 - (a) Relative to your surroundings APPROX 30° EAST.....
 - (b) angle of elevation... APPROX 70'.....
 - (c) compass angle bearing. APPROX 30" EAST.....
 - (d) how accurate are these estimates. FAIR.....
10. What first attracted observer's attention? BRIGHT.....
LIGHT OF OBJECT.....

ANSWER Q13 LIGHT WAS BRIGHTER IN BRIGHTNESS TO MOON STREET LIGHTS NO COMPANION. H.S.

- 11. If there was more than one light/object:
 - (a) how many were there?..... NIL.....
 - (b) in what formation were they?.. ONE ONLY.....
- 12. What was the colour of the light or object? BRIGHT.....
- 13. What was the brightness? (compare with full moon or common light source at a stated distance, e.g. ordinary street light at 100 yards). BRILLIANT.....
- 14. What was the apparent size at nearest approach:
 - (a) relative to Venus or Moon. LARGER THAN VENUS.....
 - (b) relative dimensions in inches at arm's length (about 20 inches from the eyes). 16" x 4"
WITH WINGS ON EACH SIDE ROTATING approx 3x6".....
- 15. What were the bearing and elevation angles at nearest approach and how were these values assessed? ALREADY
MENTIONED..... By OBSERVATION.....
- 16. Was any method of propulsion obvious?.. NO.....
- 17. Describe any sound heard, including changes in pitch and intensity. NIL.....
- 18. What was the maximum and minimum angle of elevation (or height, if an estimate can be justified)? VERY HIGH.....
- 19. What was the maximum and minimum angular velocity (or speed, if an estimate can be justified)? If necessary, compare with the movement of familiar objects at stated distances. NIL.....
- 20. Give duration of any stationary phases. STATIONARY.....
- 21. Describe any deviations or manoeuvres. STATIONARY.....
- 22. Describe any trail of exhaust, vapour or light seen. NIL
.....
- 23. Where was object last observed: 26-6-73.

- (a) relative to your surroundings.....
- (b) angle of elevation.. ALREADY STATED.....
- (c) compass angle bearing.....
- 24. What was the manner of its disappearance?.....
- 25. Do you know of any associated physical evidence (such as fragments, photographs, scorching, ground indentations, residual magnetism or radioactivity etc)... NIL.....
- 26. State any training which enables observer to be reasonably certain of his/her ability to estimate angles and angular velocity... ARMY ENGINEERING.....
- 27. How many witness to the sighting?... FOUR.....
- 28. Do you know of witnesses to similar sightings in the area?... NO.....
- 29. What natural phenomenon (or phenomena) would be nearest to explaining your observation? FACT OF OCCURRENCE.....
- 30. What are your main reasons for excluding this explanation?.....
- 31. Please sketch the light/object with all details. If appropriate, sketch position and/or movement of object in relation to your surroundings. Use back of form, if needed.



Signature. H. Lush..... Date. 28-6-73.....

Part 2 - Unit Evaluation

32. The following military aircraft were in the vicinity of the reported UFO position at the time:

A/C type.....(1).....(2).....(3)
Heading.....T.....T
Height.....,000 ft.....,000 Ft.....,000f
Speed.....K.....K.....K
ATD/ATA*.....hrs.....hrs.....hrs

33. The following civil aircraft were in the vicinity of the reported UFO position at the time:

A/C type.....(1).....(3)
Heading.....T.....T
Height.....,000 ft.....,000 ft.....,00 ft
Speed.....K.....K.....K
ATD/ATA*.....hrs.....hrs.....hrs

* Give location of nearest ATD or ATA.

34. Observer's Location: Latitude.....Longitude.....

35. Give bearing and elevation of any planets and major stars that were in that portion of the sky at that time.

By day, give location of Venus only. JUPITER
100° / approx 30°

36. A meteorological ballon was released from.....

at.....Z Colour.....Weight.....gm

Radio-sonde**/radar: Candel**/battery**(**delete as required)

General wind profile.....

Maximum height tracked.....,000 ft at.....Z

Was it known to have burst?.....

37. The first significant temperature inversion was of°C at^{NOT APPLICABLE} ft, measured at.....Z hrs from.....^{NOT APPLICABLE} station.

38. Any remarks on satellites, rockets, ^{NOT APPLICABLE} research balloons, comets, meteorites etc. relevant to the sighting.....

39. When an aircraft is a possible identification, include radar trace if available, ^{NOT APPLICABLE} and ascertain which of the aircraft lights were operating.....

40. The cause (or likely cause) of the sighting can*/cannot* be determined.

41. The object reported probably was*/may have been* (delete as required)


See written report.

.....^{R. Galt} (Unit).....^{82 wing} (Name)

.....^{11 July 73} (Date).....^{Sgt Ldn} (Rank)

UFO SIGHTING IN BRISBANE/IPSWICH AREA
BY MR H.S. AUSTIN ON 24TH JUNE 1973

1. Mr Austin rang late on Monday 25th June to report an unidentified aerial sighting. He and some friends had left Ipswich to travel to Brisbane by car at approx 2100 hrs on Sunday 24th. Soon after leaving Ipswich they noticed a bright light in the east. He described it as aeroplane shaped, about 15 or 16 inches long, and moving slowly to the east. The object was lost to view as they entered the suburbs near Brisbane.
2. The investigating officer, Sqn Ldr Bertram, gave Mr Austin his home phone number. Mr Austin called about 2000 hours that evening (25th June) and reported another object of the same shape, only smaller. He gave a compass bearing and elevation. The officer looked at the sky, but could only see a bright star through a hole in the clouds. Mr Austin rang again about a $\frac{1}{2}$ hour later and reported that it had moved slowly westwards. This coincided with the normal apparent movement of stellar objects; consequently, the investigating officer suspected that the observer had been describing the bright star, but had no idea of describing the size.
3. On the next evening, Tuesday 26th, he rang again about 2030 hours and said that the same object as he saw on Sunday evening could be seen high in the sky to the east. The investigating officer looked out (that evening was perfectly clear) and saw Jupiter, at an elevation of about 30° . This was explained to him and he appeared happy and satisfied. The report form had already been despatched to him, and is included in this report.
4. Comments on this observation are:
 - a. The normal pattern of light emitted from a bright star or planet is essentially an elongated cross. This apparently led him to believe that the thing had wings;
 - b. The object would remain in the same relative position when viewed through a windscreen. As the car was travelling roughly east, an unskilled observer would think that the object was travelling east also;
 - c. Mr Austin has no idea of estimating sizes or angles. The accurate bearings that he gave over the phone on the Monday evening were read off a compass. The actual size of the object was way out, and this illustrates the difficulty encountered when an investigating officer is trying to build a mental image of a sighting; and
 - d. The strange part is that Mr Austin could live for 74 years and still not be able to recognize a star when he sees one.


(R.M. BERTRAM)
Squadron Leader
Wing Intelligence Officer

11 Jul 73

Jun 73

D. 2030

SIGHTING # 8

KILKIDAN
OW

ABC REPORTER

ANNEX C TO
82W/5/9/Air (36)
DATED 12JUL73

UFO SIGHTING IN KILKIVAN AREA
IN EARLY JUNE 1973

1. The Intelligence Officer, Sqn Ldr BERTRAM, received a telephone call from an ABC reporter at MARYBOROUGH, QLD, during the first two weeks in June. The call concerned a sighting made by a friend of his in the KILKIVAN area. The reporter had visited the area and had also seen the lights.
2. Description of the lights was identical in all respects to that of the apparently moving stars in Annex *AB*. Unfortunately, the exact date of the phone call was not recorded, but the sightings had been made over a number of weeks.
3. The theory was explained to the caller who seemed completely satisfied. No correspondence was initiated.

31 MAY 73

D-2030

SIGHTING # 7

SPRINGBROOK
and

J. PILGRIM

UFO SIGHTING AT SPRINGBROOK
ON 31ST MAY 1973

1. Mr J. PILGRIM, who reported a sighting earlier this year, subsequently reported that, on almost every night since the initial sighting, he had seen moving flashing lights in the sky. These were not like the first reported one and did not seem in any way connected.
2. The new sightings appeared in early evening, were like bright stars, and moved rapidly in all directions at random intervals. They were mainly bright white, but flashed greenish or reddish on occasions. The lights would stay around for some considerable period, then suddenly dive and disappear below the horizon.
3. An investigating officer, Sqn Ldr BERTRAM, accompanied by a RAAF photographer, went to Springbrook on the evening of 31st May 1973. The lights duly appeared. They looked like helicopters at a distance doing violent manoeuvres about a mean position. However, further observation confirmed that they were stars. The photographer took some time-exposed shots, but, unfortunately, nothing appeared on the film.
4. The reason for this phenomena is thought to be random atmospheric refraction caused by temperature inversions and radiation. In the evening, on a cold, clear, night, the surface radiates heat depending on its surface, texture, etc. This would cause, in the layer of air close to the ground, an almost infinitely variable and changing pattern of densities in both in the horizontal and vertical planes. This in turn would cause any ray of light from a low angle (as these were) to appear to move and change colour.
5. The stars did not appear to move until they were about 20° from the horizon. In this instance, the eastern horizon was largely hidden, but similar sightings in that direction should be possible. This phenomena should be visible at many other places on a clear cold night following a warm day.

29 MAY 73

01 21311

SIGHTING # 6

AMBERLEY
(PL)

ARMAN

UFO SIGHTING IN AMBERLEY AREA
ON 29TH MAY 1973

1. On Tuesday, 29th May, an airman at Amberley reported to the Wing Intelligence Officer that at 1330 hours he had seen a bright white light trailing smoke plummet into the ground to the west of the base at great speed at about a 70° angle. Subsequent immediate investigation revealed that:
 - a. No aircraft were missing; and
 - b. Other people had seen it.
2. The other observers were:
 - a. An airman in a 9 Sqn helicopter which was on the ground at the position shown on the map; and
 - b. A civilian at Marburg, also shown.
3. The airman in the helicopter said that he had seen this thing descend a few miles to the west, and that it had burnt out just below cloud level. The cloud level was not below 3000 ft. This man had the best view as he was on top of a mountain. The civilian at Marburg reported that it had descended a few miles west of his position.
4. Several farmers in the area a few miles west of the helicopter position were contacted. They had seen nothing but some of their workers had heard a loud noise, like blasting, from a westerly direction at the same time. An investigation into the Main Roads Dept in that area revealed no blasting operations that day.
5. Then, the control tower at Oakey reported that it had heard a sonic boom at 1332 hours. Phone calls were made to several police stations between Marburg and Toowoomba, but no one had reported anything.
6. Correlation of all these facts reveals that:
 - a. An object (probable a meteorite or some space debris) descended to the west of Amberley and burnt out before it hit the ground;
 - b. It could have caused a sonic boom. Unfortunately, no one could be found who both saw and heard it; and
 - c. The actual position was much further west than that reported. Actual distance of such a sighting would be near impossible to judge, and would have probably been closer to 30 miles west of Marburg.

SG 96-14

ANNEX 'A'

1:250,000

IPSWICH



14 JUL 73 D 2030

SIGHTING 5

KIMBE
PNG

14 JUL 73

© 2010

SIGHTING # 4


BOROKO
P/C

TERRELL

Royal Australian Air Force A 273 Feb 70 MEMO		For use within the RAAF only Write or print clearly	OUR FILE 580/1/1/P-26	FOLIO A 6
FROM DEPAIS		DATE 25 SEP 73	REFERENCES 109-DI-11 (46) OF 30 JUN 73	
TO HORNCFOR		ATTENTION SO 3 (INT)		
SUBJECT Reports of Unusual Aerial Sighting				

Enclosed for your records is a copy of a letter from this Department to Mr. Terrill in reply to his report of an unusual aerial sighting.

Enclosure - Copy of letter to Mr. Terrill

SIGNATURE 	PRINTED NAME M. C. RETTON	RANK Flt Off	APPOINTMENT R-2	PHONE EXT 2608
---	------------------------------	-----------------	--------------------	-------------------

22 AUG 1973

580/1/1 Pt26 (4a)

Mr Terrell,
Cnr. Laurabada Avenue/Angau Drive,
Boroko,
PORT MORESBY PNG

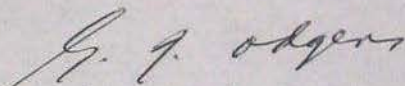
Dear Sir,

With reference to your report of an unusual aerial sighting on 14th July 1973, the opinion of the investigating team is that the most probable cause was the sighting of three stars which had apparent movement due to unusual atmospheric refraction.

On the evening of 14th July at 7.15 PM, the stars Antares, Shaula, and Kaus Australis would have been visible in the south eastern sky at elevations of 50°, 45° and 38° respectively. Antares was the brightest with a magnitude of 1.2. Jupiter would have been just visible above the horizon in the same direction and the moon was just rising a little further north. Varying density layers of the lower atmosphere often cause refraction of the light emitted from stars, and thus abnormal apparent movement of those stars mentioned could be evident. The variations of density change rapidly due to temperature and this is thought to be the reason that the three stars ceased their apparent movement and remained stationary in the triangular configuration.

We trust that this explanation is satisfactory and thank you for your interest.

Yours faithfully,



(G.J. ODGERS)
Director of Public Relations

f
Spoke
DATA
21 Aug 73

WA
dep by DPA
22.8.73
x



PAPUA NEW GUINEA DEFENCE FORCE



Telephone 56166

Quote in Reply 109-D1-11(46)

Headquarters
Papua New Guinea Defence Force
Murray Barracks Free Bag
BOROKO PNG

30 July 73

DAFI

Department of Air,
Russell Offices
CANBERRA ACT 2601

For Information:

Department of Defence CANBERRA

Headquarters Operational Command RAAF PENRITH

REPORTS OF UNUSUAL SIGHTINGS

Reference: A. Your 580/1/1 Pt 26 (3a) of 19 Jul 73.

1. Enclosed is a copy of our 109-D1-11 of 18 July 1973 to Operational Command only. The sightings reported from the TERRELL family is attached (Depair Only).
2. Future reports will be sent in accordance with Operational Command Air Staff Instruction 3/4/5.
3. Part one of your revised questionnaire has been forwarded to the District Commissioner at KIMBE.

B.F. Doyle
(B.F. DOYLE)
Major
for Commander

Enclosure: 109-D1-11 dated 18 Jul 73.
Sighting Report (Depair Only)



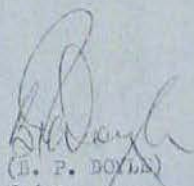
42
18 Jul 73

Headquarters Operational Command
RAAF Penrith.

REPORT - UNIDENTIFIED FLYING OBJECT
PORT MORESBY AREA

Reference: A. Our Int 010926 dated 170345Z Jul 73.

1. Enclosed is a proforma of interview with Mr. TERRELL and family who reported an unusual sighting from their home in BOROKE, a suburb of Port Moresby. Part II, the unit evaluation is also enclosed.
2. There have been several sightings in PNG over the past three weeks. However, because of the distances involved and the remoteness of some of the areas, e.g. KIMBE, it would be difficult to interview all observers.
3. A press cutting from the Port Moresby Post Courier exaggerates the recent sightings and is in error in some instances. The sighting mentioned in RASAU was identified as a radioonde.
4. A planet diagram and a schedule of satellites and their flight paths could possibly enable this Headquarters to resolve some sightings without further investigation. If such information is available, could a copy of this be forwarded to HQ PNGDF on a regular basis.


(B. P. BOYLE)
Major
For Commander

REPORT ON UNUSUAL AERIAL SIGHTING

PART ONE - REPORT BY OBSERVER

Note: As a preliminary to completing this form, the observer is invited to describe the sighting in his or her own manner, using either separate sheets or the back of this form.

1. Name of observer Mr. Terrell & Family <sup>(Mr. Terrell 3rd grade
Mrs. Terrell 3rd grade
Dawson 3rd grade
Pete 3rd grade)</sup> Age.....
2. Address of observer 602 LAURENCE AVE. T. ANGLE DRUG
BOZEMAN, MONT. Phone 57836
3. Occupation of observer Public Servant - Army Sec. Department & Army Offices
4. Date and time of start of observation SAT. 14 JUL 73 about 1915K
5. How certain is the date Very accurate
How accurate is the time of start within 10 minutes
5. Duration of observation about 20 minutes
How accurate is your estimate within 10 minute
6. Observers location at time of sighting back yard of their home
address as above
7. Weather conditions at time of observation very clear
8. Describe any aids/equipment used in the observation none
9. Where was the object first observed:
 - a. Relative to your surroundings S.E. 1/4 1st quad
 - b. Angle of elevation 45°
 - c. Compass angle bearing 135° - 090°
 - d. How accurate are these estimates ± 20°
10. What first attracted observer's attention Casual observation

RESTRICTED

11. If there was more than one light/object:
- a. How many were there 3
 - b. In what formation were they Independent then triangles
12. What was the brightness (Compared with full moon or common light source at a stated distance, eg, ordinary street light at 100 metres)
- One brighter than a star other bright as stars
13. What was the colour of the light or object white
14. What was the apparent size at nearest approach:
- a. Relative to Venus
 - b. Relative dimensions in inches at arms length (about 20 inches from the eyes)
15. What were the bearing and elevation angles at nearest approach and how were these values assessed. Object moved across the horizon from 135 to 090 elev. 45°
16. Was any method of propulsion obvious no
17. Describe any sound heard, including changes in pitch and intensity
-
18. What was the maximum and minimum angle of elevation (or height, if an estimate can be justified)
- remained at about 45°
19. What was the maximum and minimum angular velocity (or speed, if an estimate can be justified)
-
20. Give duration of any stationary phases at least 15 minutes
21. Describe any deviations or manoeuvres One object traversed 45° at an elevation of 45° Stopped and flashed briefly. Joined shortly after by 2nd
22. Describe any trail or exhaust, vapour or light seen along same path
- Only a white light similar to a star
23. Where was the object last observed:
- a. Relative to your surroundings Eastern Sky
 - b. Angle of elevation 45°
 - c. Compass angle bearing about 090°

RESTRICTED

24. What was the manner of its disappearance unknown, was still visible when family went inside to meet guests
 25. Do you know of any associated physical evidence eg. fragments, photographs, scorching, ground indentations, residual magnetism or radio activity, etc.

no

26. State any training which enables observer to be reasonably certain of his/her ability to estimate angles and angular velocity.

Angles... checked against tall trees by elementary geometry.

27. How many witnesses to the sighting 1 (the nature unable to describe)

28. Do you know of witnesses to similar sightings in the area

NO

29. What natural phenomenon (phenomena) would be nearest to explaining your observation

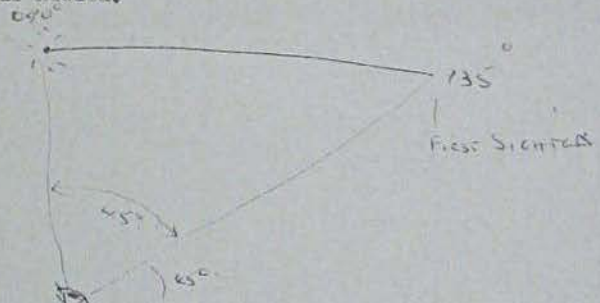
None

30. What are your main reasons for excluding this explanation

.....

31. Please sketch the light/object with all details. If appropriate, sketch position and/or movement of object in relation to your surroundings. Use back of form, if needed.

nearest object
 approx 45°
 is flashed on/in
 and by two other
 trees three trees of
 Aular formation
 and removed in
 at further

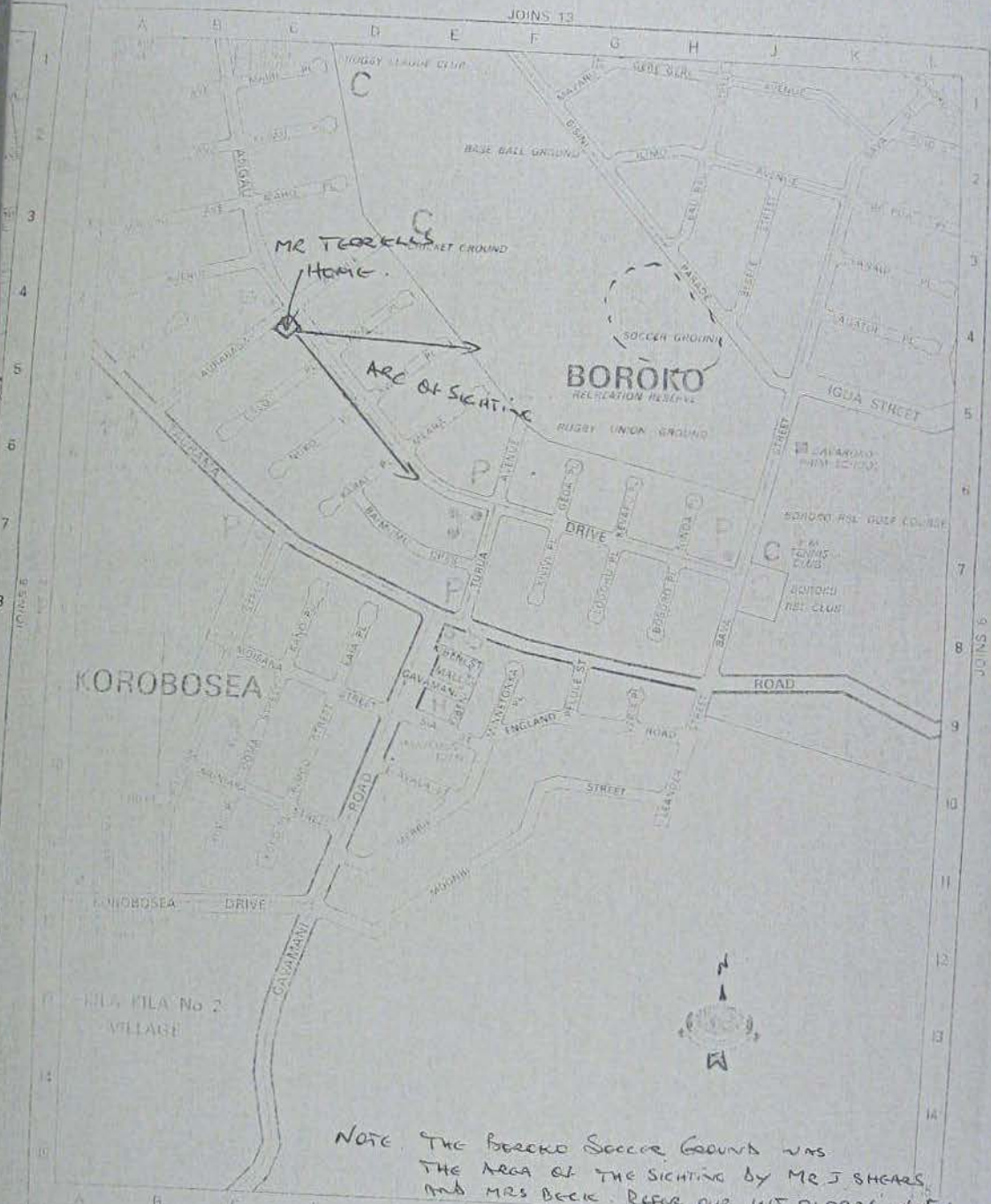


Signature of Observer Date Nov 16 July 73

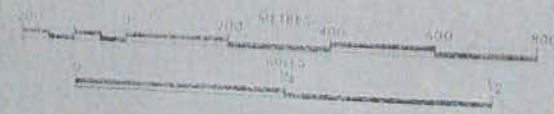
is still in that position
 in family moved inside
 meet guests arriving

MAP 5

JOINS 13



NOTE: The Boroko Soccer Ground was
 the area of the sighting by Mr J SHEARS
 and Mrs Beck. Refer our INT 010926 dated
 170345Z Jul 73.
 Aircraf as aircraft in Jackson Creek
 area.





UFOs sighted in Moresby, Kimbe and Rabaul

Moresby
16 Jul 73

Ten people sighted unidentified flying objects in the Port Moresby sky on Saturday night.

And two other sightings of UFOs were reported — one in Kimbe and one in Rabaul — at the weekend.

First to spot them in Port Moresby was 40-year-old Kerry Terrell, of Baroka, 150

aw the UFOs first between 7 and 1:30 am.

His mother, Mrs Judith Terrell, said she also called her to the kitchen.

"I saw a bright white light — it looked

ed like a brilliant star — move up towards the south-east from the southern horizon, from the beach way," she said.

"It was moving quickly and was about 45 degrees from the horizon at its highest point."

"I went inside and told my husband who said it must be a satellite."

"I was inclined to believe him until I saw a second light shuffle across."

"The first one started flashing very brightly and the

second one came across and seemed to leave immediately."

Mrs Terrell said the Rabaul UFO was "very much brighter than a star".

She said it was watched by about 10 people, including herself, her husband, their 14-year-old daughter, Holly Kelly, and their domestic servant and ill son.

"Some people said they saw four objects," she said. "But none generally agreed that it was two or three."

"I watched them for five to 10 minutes and my children watched them later."

"I don't think they were weather balloons — perhaps they were part of the Skel-lab project."

A Defence Force spokesman said he could think of no explanation for the sighting.

"We are investigating," he said.

A Civil Defence spokesman said he was awaiting further information about UFO sightings.

3 Are UFOs correct — Page 10.

RESTRICTED

PART TWO - UNIT EVALUATION

32. The following military aircraft were in the vicinity of the reported UFO position at the time: *Last aircraft landed PM 1800Z this*

Aircraft type 1. *refer to all aircraft both civil & military* 2. 3.
HeadingTTT
Height000ft000ft000ft
SpeedKKK
ATD/ATA Area hrs hrshrs

33. The following civil aircraft were in the vicinity of the reported UFO posn. at the time:

Aircraft type 1 2 3
Heading TT T
Height000ft000ft000ft
Speed K K K
ATD/ATA Area hrs hrs hrs

34. Observer's location: Latitude *0927.5* Longitude *18719.5*

35. Give bearing and elevation of any planets and major stars that were in that portion of the sky at that time. By day, give location of Venus only

Venus & Mercury close together in western sky. Main just R of about R

36. A meteorological balloon was released from *Mossy* balloon net...
Roussio Time *2100* each evening
at Colour Weightgms

Radio-sonde/radar ; Candle/battery (delete that which not applicable)
General wind profile
Maximum height tracked000ft atZ
Was it known to have burst

37. Any remarks on satellites, rocket, research balloons, comets, meteorites etc. relevant to the sighting

Shuttle has been observed at this time on other evenings usually travel across horizon to north of PM.
RESTRICTED

- 38. The first significant temperature inversion wasdegrees
at feet, measured at from
..... station.
- 39. When an aircraft is a possible identification, include radar if available
and ascertain which of the aircraft lights were operating
.....
- 40. The cause (or likely cause) of the sighting can/cannot be determined.
- 41. The object reported probably was/may have been *Stars, apparently*
moving, when sighted through ground haze.
a) some phenomenon of misperception.

Unit *HQ ING DE* Name *R. K. MARSHALL*
Date *16 Jun 73* Rank *1st Lt*
Appointment *S03 (INT)*



ROYAL AUSTRALIAN AIR FORCE

DEPT. OF AIR
580/1/1
DAFI
1973

TELEPHONE: PENRITH [REDACTED] 311,311

TELEGRAPHIC ADDRESS:
"AIRCOMMAND, SYDNEY"

HEADQUARTERS OPERATIONAL COMMAND
RAAF

[REDACTED]
PENRITH NSW 2750

IN REPLY QUOTE 5/15/1/Air (11)

30th July 1973.

Secretary Department of Air (Attention: DAFI)

REPORT - UNIDENTIFIED FLYING OBJECT
PORT MORESBY AREA

Reference: A. Your 580/1/1/Pt26 (3A) of 19th July 1973.

Herewith is a report of an unidentified flying object received from Headquarters, Papua New Guinea Defence Force. It would appear that the report was requested by your department (reference A) but was inadvertently forwarded to this headquarters.

Kenneth D. Clark
(K.D. CLARK)
Squadron Leader
for Air Officer Commanding

Encl: UFO Report



RESTRICTED

REPORT ON UNUSUAL AERIAL SIGHTING

PART ONE - REPORT BY OBSERVER

Note: As a preliminary to completing this form, the observer is invited to describe the sighting in his or her own manner, using either separate sheets or the back of this form.

1. Name of observer MS. TERRELL & FAMILY { MATHEW } mid 40s
{ MISTY } mid 40s
{ DAVID } mid 40s
{ SEX } 10 Age.....
2. Address of observer CNR LAURABADA AVE & ANGAN DRIVE
BOZANO PNG Phone 57836
3. Occupation of observer PUBLIC SERVANT WITH Soc. DEPARTMENT & HOME AGENCIES
4. Date and time of start of observation SAT. 14 JUL 73 about 1915K
5. How certain is the date Very accurate
How accurate is the time of start within 10 minutes
5. Duration of observation about 20 minutes
How accurate is your estimate within 10 minute
6. Observers location at time of sighting back yard of their home
address as above
7. Weather conditions at time of observation very clear
8. Describe any aids/equipment used in the observation nil
9. Where was the object first observed:
 - a. Relative to your surroundings SEE MAP ATTACHED
 - b. Angle of elevation 45°
 - c. Compass angle bearing 135° → 090°
 - d. How accurate are these estimates ± 20°
10. What first attracted observer's attention Casual observation

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11. If there was more than one light/object:
- a. How many were there 3
 - b. In what formation were they .. Independent then triangles ..
12. What was the brightness (Compared with full moon or common light source at a stated distance, eg, ordinary street light at 100 metres)
- One brighter than a star other bright as stars ..
13. What was the colour of the light or object .. white ..
14. What was the apparent size at nearest approach:
- a. Relative to Venus
 - b. Relative dimensions in inches at arms length (about 20 inches from the eyes)
15. What were the bearing and elevation angles at nearest approach and how were these values assessed.
- Object moved across the horizon from 135 to 090 elev. $< 5^\circ$..
16. Was any method of propulsion obvious no
17. Describe any sound heard, including changes in pitch and intensity
-
18. What was the maximum and minimum angle of elevation (or height, if an estimate can be justified)
- remained at about $< 5^\circ$..
19. What was the maximum and minimum angular velocity (or speed, if an estimate can be justified)
-
20. Give duration of any stationary phases at least 15 minutes ..
21. Describe any deviations or manoeuvres
- One object traversed 45° at an elevation of $< 5^\circ$ Stopped and flashed briefly. Joined shortly after by 2+3
22. Describe any trail or exhaust, vapour or light seen
- along same path ..
- Only a white light similar to a star ..
23. Where was the object last observed:
- a. Relative to your surroundings ... Eastern Sky ..
 - b. Angle of elevation .. $< 5^\circ$..
 - c. Compass angle bearing ... about 090° ..

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24. What was the manner of its disappearance unknown was still visible when family went inside to meet guests

25. Do you know of any associated physical evidence eg. fragments, photographs, scorching, ground indentations, residual magnetism or radio activity, etc.

no

26. State any training which enables observer to be reasonably certain of his/her ability to estimate angles and angular velocity.

Angles checked against tall trees by elementary geometry.

27. How many witnesses to the sighting 6 (two witnesses unable to describe)

28. Do you know of witnesses to similar sightings in the area

No

29. What natural phenomenon (phenomena) would be nearest to explaining your observation

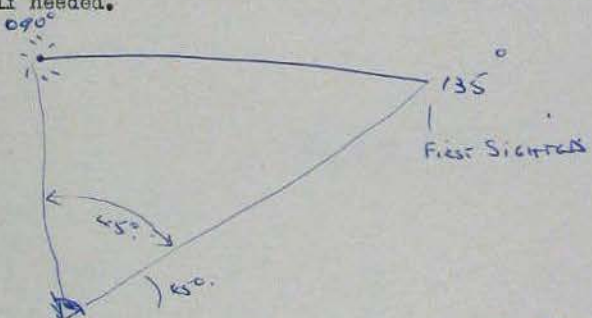
none

30. What are your main reasons for excluding this explanation

.....

31. Please sketch the light/object with all details. If appropriate, sketch position and/or movement of object in relation to your surroundings. Use back of form, if needed.

BRIGHTEST OBJECT STOPPED AT 090° AND FLASHED UNTIL JOINED BY TWO OTHER OBJECTS. THREE TOOK UP A Δular formation and remained in that position



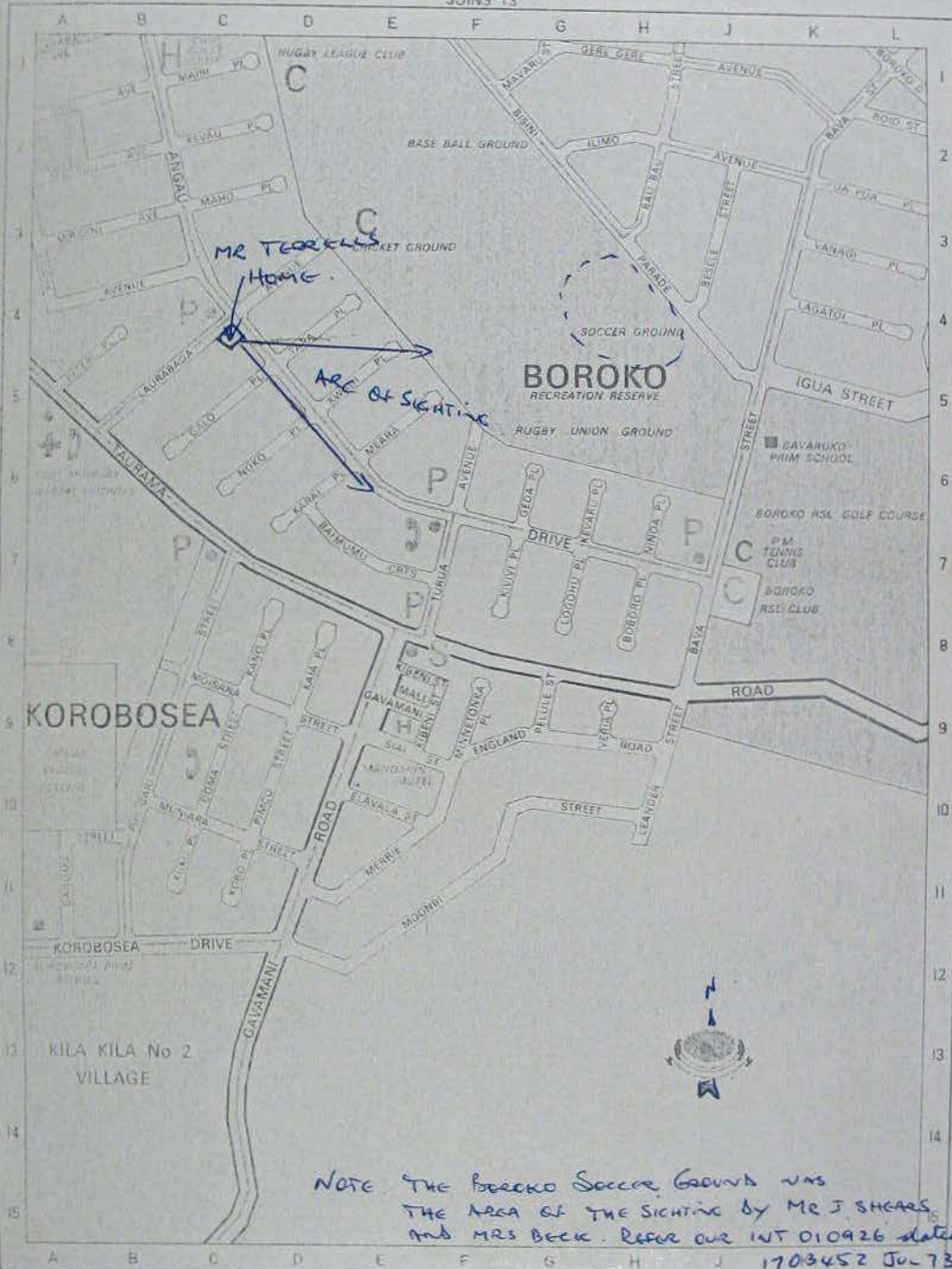
Signature of Observer Date Nov 16 Ju-y 73

~~Signature~~ were still in that position when family moved inside to meet guests arriving.

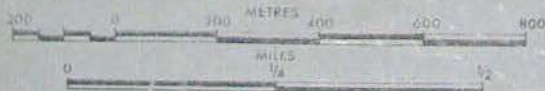
RESTRICTED

MAP 5

JOINS 13



JOINS 8



PART TWO - UNIT EVALUATION

32.

The following military aircraft were in the vicinity of the reported UFO position at the time: *Last aircraft landed PM 1800Z this refers to all aircraft both civil & military*

Aircraft type 1.....2.....3.....
HeadingTTT
Height000ft000ft000ft

*PM Moresby
Port Louis
16 Jul 73*

UFOs sighted in Moresby, Kimbe and Rabaul

Ten people sighted unidentified flying objects in the Port Moresby sky on Saturday night.

And two other sightings of UFOs were reported — one in Kimbe and one in Rabaul — at the weekend.

First to spot them in Port Moresby was 10-year-old Kerry Terrell, of Boroko. He saw the UFOs first between 7 and 7.30 pm.

His mother, Mrs Judith Terrell, said her son called her to the back door.

"I saw a bright white light — it look-

ed like a brilliant star — move up towards the north-east from the southern horizon, from Sir Beach way," she said.

"It was moving quickly and was about 45 degrees from the horizon at its highest point.

"I went inside and told my husband who said it must be a satellite.

"I was inclined to believe him until I saw a second light shifting across.

"The first one started flashing very brightly, and the

second one came across and seemed to hover underneath it."

Mrs Terrell said the flashing UFO was "very much brighter than a star".

She said it was watched by about 10 people, including herself, her husband, their 14-year-old daughter, Holly, Kerry, and their domestic servant and his sons.

"Some people said they saw four objects," she said. "But we're generally agreed that it was two or three.

"I watched them for five to 10 minutes and my children watched them longer.

"I don't think they were weather balloons — perhaps they were part of the Skylab project."

A Defence Force spokesman said he could think of no explanation for the sighting.

"We are investigating," he said.

A Civil Defence spokesman said he was awaiting further information about UFO sightings.

Are UFOs for real — Page 10

.....hrs
UFO posn.
.....
..... T
000ft
..... K
..... hrs
.....
re in that
only

*Main Just Rising
at about 7
Rise*

36.

A meteorological balloon was released from *Moresby balloon not released till 2100 K each evening*
atZ Colour Weightgms

Radio-sonde/radar ; Candle/battery (delete that which not applicable)

General wind profile

Maximum height tracked000ft atZ

Was it known to have burst

37.

Any remarks on satellites, rocket, research balloons, comets, meteorites etc. relevant to the sighting

Skylab has been observed at this time on other evenings usually

RESTRICTED

tracks across horizon to north of PM.

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PART TWO - UNIT EVALUATION

The following military aircraft were in the vicinity of the reported UFO position at the time: *Last aircraft landed PM 1800Z this*

Aircraft type 1 *refers to all aircraft both civil & military* 2.....3.....

HeadingTTT

Height000ft000ft000ft

SpeedKKK

ATD/ATA Area hrs hrshrs

33. The following civil aircraft were in the vicinity of the reported UFO posn. at the time:

Aircraft type 1 2 3

Heading TT T

Height000ft000ft000ft

Speed K K K

ATD/ATA Area hrs hrs hrs

34. Observer's location: Latitude *0927.5*..... Longitude *18710.5*.....

35. Give bearing and elevation of any planets and major stars that were in that portion of the sky at that time. By day, give location of Venus only

Venus & Mercury close together in western sky. Moon just rising
.....
be about to rise

36. A meteorological balloon was released from *Mossy* balloon net
at *Released till 2100Z each evening*.....Z Colour Weightgms

Radio-sonde/radar ; Candle/battery (delete that which not applicable)

General wind profile

Maximum height tracked000ft atZ

Was it known to have burst

37. Any remarks on satellites, rocket, research balloons, comets, meteorites etc. relevant to the sighting

Skylab has been observed at this time on other evenings usually
RESTRICTED *tracks across horizon to north of PM.*

38. The first significant temperature inversion wasdegrees
at feet, measured at Z from
..... station.
39. When an aircraft is a possible identification, include radar if available
and ascertain which of the aircraft lights were operating
.....
40. The cause (or likely cause) of the sighting can/cannot be determined.
41. The object reported probably was/may have been *Stars* *apparently*
moving when sighted through ground haze.
a. some phenomenon of moonlight.

Unit *HQ ING DF* Name *R. K. MARSHALL*
Date *16 Jul 73* Rank *F-1 Lt*
Appointment *SO3 (INT)*

JUN 73
SIGHTING # 3 2030

BOROKO
PNG

J. SHEARS
MRS BECK

580/1/1 Pt26 (3a)

19 JUL 73

Headquarters
Papua New Guinea Defence Force
Murray Barracks Free Bag
BOROKO PNG

For Information:

Department of Defence, Canberra
Headquarters Operational Command

REPORTS OF UNUSUAL AERIAL SIGHTINGS

Reference: A. Your INT 010926 of 170345Z Jul 73

1. The information contained in the reference is insufficient for adequate evaluation of the sightings. Attached is a copy of the report and evaluation form presently in use, and you are requested to have witnesses complete Part I of the proforma. Parts II and III should be completed by a competent officer and the whole form dispatched to the Department of Air as soon as possible.
2. Future reports of unusual aerial sightings should be dealt with in this manner.

(Handwritten signature)
(K.R. JANSCH)
Group Captain
for Chief of the Air Staff

Attachment: Unusual Aerial Sighting Report Proforma

Handwritten note:
A
Copy
Done
19 Jul 73

NNNNVV (LRA032)

HH RESTRICTED

FP RAYWPP

DE RAYGC 879 1980355

73 JUL 17 6 15

ZNY RRRRR

PRIORITY

P 170345Z JUL 73

FM COMPNGFOR

TO RAYWYY/DEFENCE CANBERRA

RAYWPP/DEPAIR

RAYROP/HQOC

BT

R E S T R I C T E D

INT010926



REPORTS UNIDENTIFIED FLYING OBJECTS. THIS HQTRS HAS RECEIVED THREE REPORTS OF UFOS SIGHTED ON SATURDAY 14 JUL 73. REPORTS ARE AS FOLLOWS. REPORT ONE. AT 140430Z MR J SHEARS AND A MRS BECK SAW A BRIGHT FLASH AND BLUE SMOKE TO THE WEST OF THE BOROKO SOCCER GROUND WHERE THEY WERE WATCHING A MATCH. THEY THEN OBSERVED A BRIGHT WHITE LIGHT ASCENDING TOWARDS THE NORTH EAST. IT WAS WITNESSED BY SEVERAL PEOPLE AND PERSISTED FOR ABOUT 20 SECONDS. COMMENT. THIS WAS A POSSIBLE AIRCRAFT APPROACHING JACKSON FIELD. ALL AIRCRAFT APPROACHING JACKSON HAVE BEEN INSTRUCTED TO SWITCH ON THEIR LANDING LIGHTS. THIS IS OFTEN VISIBLE WHILE THE BODY OF THE AIRCRAFT IS NOT. REPORT TWO. AT 140915Z MR TERRELL AND

PAGE 2 RAYGC 879 R E S T R I C T E D

FAMILY SIGHTED THREE OBJECTS IN THE EASTERN SKY FROM THEIR HOME IN BOROKO PORT MORESBY. ONE OBJECT WHICH WAS BRIGHTER THAN THE OTHERS WAS OBSERVED TO TRACK ACROSS THE SKY FROM SOUTH TO NORTH AT AN ELEVATION OF ABOUT 45 DEGREES. THE OBJECT STOPPED AND COMMENCED FLASHING UNTIL IT WAS JOINED BY TWO OTHER LIGHTS TRAVELLING ALONG THE ORIGINAL FLIGHT PATH WHERE THEY REMAINED IN A TRIANGULAR FORMATION. COMMENT. THEIR IS NO EXPLANATION FOR THIS SIGHTING. AND A REPORT OF AN INTERVIEW WITH THE TERRELL FAMILY WILL BE FORWARDED TO OPERATIONAL COMMAND HEADQUARTERS THIS DAY. REPORT THREE. AT 147030Z THE DISTRICT COMMISSIONER AT KIMBE 0534S 15010E. HE OBSERVED A BRIGHT LIGHT 5 DEGREES ABOVE HORIZON. OBJECT WAS CONICAL GLOWING OBJECT WITH RED LIGHT ON TOP IT WAS

REPORTS UNIDENTIFIED FLYING OBJECTS. THIS HQTRS HAS RECEIVED THREE REPORTS OF UFOS SIGHTED ON SATURDAY 14 JUL 73. REPORTS ARE AS FOLLOWS. REPORT ONE. AT 140430Z MR J SHEARS AND A MRS BECK SAW A BRIGHT FLASH AND BLUE SMOKE TO THE WEST OF THE BOROKO SOCCER GROUND WHERE THEY WERE WATCHING A MATCH. THEY THEN OBSERVED A BRIGHT WHITE LIGHT ASCENDING TOWARDS THE NORTH EAST. IT WAS WITNESSED BY SEVERAL PEOPLE AND PERSISTED FOR ABOUT 20 SECONDS. COMMENT. THIS WAS A POSSIBLE AIRCRAFT APPROACHING JACKSON FIELD. ALL AIRCRAFT APPROACHING JACKSON HAVE BEEN INSTRUCTED TO SWITCH ON THEIR LANDING LIGHTS. THIS IS OFTEN VISIBLE WHILE THE BODY OF THE AIRCRAFT IS NOT. REPORT TWO. AT 140915Z MR TERRELL AND

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BT



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NNNN

23 JUN 73

SIGHTING # 2

MAREESA
OW

P BUNDNEY

FROM DEPAIR	FILE 58011.P.26(25)	DATE 24 JUL 73	REFERENCES HOTNL 5140/AIC(6) OF 10 JUL 73
TO HOTNL ATTENTION FIO			
SUBJECT REPORTS OF UNUSUAL AERIAL SIGHTINGS			

Enclosed, for your records is a copy of a letter from this Department to Mr P Bunney in reply to his report of an unusual aerial sighting.

ENCLOSURE: Copy of letter to Mr P Bunney

SIGNATURE M. Creton	NAME M. CRETON	RANK FLY OFF	APPOINTMENT R 3	PHONE NO 2403
------------------------	-------------------	-----------------	--------------------	------------------

580/1/1 Pt26 (2a)

26 JUL 1973

Mr P. Bunney,
175 Byrnes Street,
MAREEBA QLD 4880

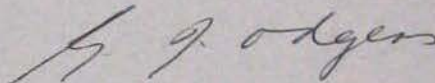
Dear Sir,

With reference to your report of an unusual aerial sighting on 23rd June 1973, it has been determined that the object sighted was most probably the planet JUPITER.

Astronomical charts show that at 9.30 PM on 23rd June, JUPITER was visible with a magnitude of -2 at an elevation of 15° and an azimuth of 74° . This position, and the gradual movement of the planet towards the north, coincides with your report of the sighting. Additionally, under certain atmospheric conditions, discolouration of light reflected from planets is not uncommon.

We trust that this explanation is satisfactory and thank you for your interest.

Yours faithfully,



(G.J. ODGERS)
Director of Public Relations

*A
9/1/73
DAM
19 Jul 73*

*NBA
20-7-73
DPR
Ⓢ*



ROYAL AUSTRALIAN AIR FORCE

TELEPHONE: 795666

Headquarters
RAAF Base
TOWNSVILLE QLD 4810

IN REPLY QUOTE 5/40/Air(61)

10th July 1973

Department of Air (Attn DAFI)

For Information


Headquarters Operational Command (Attn CCIO)

UNUSUAL AERIAL SIGHTING

1. The following aspects were investigated and considered by the Formation Counter Intelligence Officer (FCIO) in his attempt to find a satisfactory explanation for the sighting referred to in enclosure 1:

- a. Aircraft. The only known civil aircraft movement is fully reported in para 33 of enclosure 1;
- b. Visible Satellites. None of the twelve highly luminous satellites listed by Weapon Research Establishment can be related to the sighting;
- c. Meteorological Balloons and Conditions. Enclosure 2 outlines the relevant information on weather balloons and weather conditions as provided by the Bureau of Meteorology;
- d. Celestial Bodies. Paragraph 35 of Enclosure 1 lists the position of Jupiter during the sighting period, and it is the only planet relevant to the investigation.

2. After considering all the information collected, this headquarters is unable to determine with any certainty the reason behind the sighting but considers that a balloon or planet could be a probable reason notwithstanding certain inconsistencies in angles of elevation.


(W.G. CANNIFFE)
Flying Officer
for Officer Commanding

Enclosure: 1 Sighting Report
2 Meteorology Report



COMMONWEALTH OF AUSTRALIA

S8
2

BUREAU OF METEOROLOGY
~~DEPARTMENT OF METEOROLOGY~~
DEPARTMENT OF SCIENCE

TELEPHONE: 79.5999

ALL COMMUNICATIONS TO BE
ADDRESSED TO
THE OFFICER IN CHARGE,
METEOROLOGICAL OFFICE.

BOX 1315 P.O.
TOWNSVILLE 4810

IN YOUR REPLY PLEASE QUOTE THIS NUMBER
70/1/2

The Officer Commanding,
Headquarters,
R.A.A.F. Base,
GARBUTT



METEOROLOGICAL OFFICE
AERODROME.

GARBUTT

2nd July, 1973

Headquarters	
Base Sta.	
NQ. AIG	
10 Sqs.	9

ATTENTION: FLYING OFFICER W. G. CANNIFFE

UNUSUAL AERIAL OBJECT SIGHTING REPORT
REF. YOUR 5/40/Air(57) of 25/6/73

A 100 gram meteorological balloon carrying a small reflector and a 1.5 volt electric globe was released from the Cairns Airport at approximately 21.10K on the 23rd June, 1973.

The rate of ascent was in the vicinity of 1000ft. per minute and the direction of travel was as follows:-

0 - 10 minutes	NW	Average Speed	19 knots
10 - 18 minutes	WSW	Average Speed	18 knots
18 - 30 minutes	NW	Average Speed	10 knots

The balloon burst at approximately 30,000ft.

There were temperature inversions reported at 9.30 a.m. on the 23rd as follows:-

TOWNSVILLE	10,500ft to 11,200ft	5.5 °C to 9.5 °C
CLONCURRY	9,200ft to 9,500ft	6 °C to 9 °C
WILLIS ISLAND	10,300ft to 11,000ft	7 °C to 8 °C

(Signature)
(A. J. WALKER)
OFFICER-IN-CHARGE



REPORT ON UNUSUAL AERIAL SIGHTING

PART 1 - Report by Observer

(As a preliminary to completing this form, the observer is invited to describe the sighting in his or her own manner, using either separate sheets or the back of this form).

- 1. Name of observer PAUL BUNNEY Age 20
- 2. Address of observer 175 BYRNES ST MAREESA
Phone 929
- 3. Occupation of observer RADIO ANNOUNCER - TECHNICIAN
- 4. Date and time of start of observation 23 JUN 73 2130 hours
How certain is the date? POSITIVE
How accurate is the time of start? ± 2 MINS
- 5. Duration of observation 30 MINUTES
How accurate is your estimate? ± 5 MINS
- 6. Observer's location at time of sighting 4 AM RADIO STATION STU
10
How familiar is observer with this locality? (5) FIVE WEEKS RESIDENCE
(OBSERVER HAD TWO WITNESSES)
- 7. Weather conditions at time of observation FINE WITH FEW CLOUDS
- 8. Describe any aids/equipment used in the observation NIL - NAKED EYE
- 9. Where was object first observed:
 - a. Relative to your surroundings EASTERLY DIRECTION
 - b. Angle of elevation APPROX 15°
 - c. compass angle bearing 090°
 - d. how accurate are these estimates APPROXIMATE



10. What first attracted observer's attention? RADIO LISTENERS
PHONED STATION TO REPORT SIGHTINGS
11. If there was more than one light/object:
 - a. how many were there? ONE
 - b. in what formation were they? -
12. What was the colour of the light or object? GREENISH COLOUR
13. What was the brightness? (compare with full moon or common light source at a stated distance, eg, ordinary street light at 100 yards)
EQUIVALENT TO 100 WATT GLOBE
14. What was the apparent size at nearest approach:
 - a. relative to Venus or Moon SLIGHTLY LARGER THAN VENUS
 - b. relative dimensions in inches at arm's length (about 20 inches from the eyes) 1 1/4
15. What were the bearing and elevation angles at nearest approach and how were these values assessed? UNABLE TO ANSWER
16. Was any method of propulsion obvious? NONE
17. Describe any sound heard, including changes in pitch and intensity
NONE
18. What was the maximum and minimum angle of elevation (or height, if an estimate can be justified)? 45/30° - 15°
19. What was the maximum and minimum angular velocity (or speed, if an estimate can be justified)? If necessary, compare with the movement of familiar objects at stated distances 5-10 MPH
20. Give duration of any stationary phases APPROX 20 MINS
21. Describe any deviations or manoeuvres STRAIGHT LINE ONLY
22. Describe any trail of exhaust, vapour or light seen APPEARED TO
HAVE BURNING EFFECT

23. Where was object last observed:
- a. relative to your surroundings .. HEADING TOWARDS CAIRNS
 - b. angle of elevation .. 50° ABOVE HAREEBA
 - c. compass angle bearing .. NOT SURE (ACCTARLY)
24. What was the manner of its disappearance? .. BEHIND CLOUD
25. Do you know of any associated physical evidence (such as fragments, photographs, scorching, ground indentations, residual magnetism or radioactivity etc) ... No
26. State any training which enables observer to be reasonably certain of his/her ability to estimate angles and angular velocity
 .. GENERAL KNOWLEDGE OF MATHS ONLY
27. How many witnesses to the sighting? .. TWO
28. Do you know of witnesses to similar sightings in the area? .. YES
 .. RECEIVED THREE CALLS FROM LISTENERS
29. What natural phenomenon (or phenomena) would be nearest to explaining your observation? .. BURNING STAR
30. What are your main reasons for excluding this explanation?
 .. DOES NOT EXCLUDE POSSIBILITY
31. Please sketch the light/object with all details. If appropriate, sketch position and/or movement of object in relation to your surroundings.
 Use back of form if needed.

REPORT RECEIVED BY O/O

Signature Date .. 23 JUN 73

Part 2 - Unit Evaluation

32. The following military aircraft were in the vicinity of the reported UFO position at the time:

A/C type	.....(1).....	.....(2).....	.....(3).....
Heading	.....T.....	.....T.....	.....T.....
Height	.....000ft.....	.....000ft.....	.....000ft.....
Speed	.....K.....	.....K.....	.....K.....
ATD/ATA*	.....hrs.....	.....hrs.....	.....hrs.....

33. The following civil aircraft were in the vicinity of the reported UFO position at the time:

A/C type	..C402.....(1).....	.....(2).....	.....(3).....
Heading	..NORMANTON 70 CAIRNS E T.....	.....T.....	.....T.....
Height	..9,000 FT.....	.....000ft.....	.....000ft.....
Speed	..160 KTS.....	.....K.....	.....K.....
ATD/ATA*	..CS 2153 hrs OVER MAREE RD 2140 hrs.....	.....hrs.....	.....hrs.....

* Give location of nearest ATD or ATA.

34. Observer's Location: Latitude 17:00S.....Longitude 145:25E.....

35. Give bearing and elevation of any planets and major stars that were in that portion of the sky at that time. By day, give location of Venus only JUPITER: 2130K 15°30' ABOVE HORIZON (AH) 074°T 2140K 17°30' AH 075°T; 2150K 19°14' AH 076°T; 2200K 22°01' (AH) 076°T

36. A meteorological balloon was released from CAIRNS AIRPORT at 2110..... Kilo colour SILVER/WHITE..... Weight 100..... gm

Radio-sonde **/radar **/Candle **/battery ** (** delete as required) SMALL REFLECTOR AND 1.5 VOLT ELECTRIC GLOBE

General wind profile 0-10 MINS NW 19 KTS; 10-15 MINS WSW 18 KTS; 15-30 MINS NW 10 KTS

Maximum height tracked 30,000 FT.....000ft at 2125 Kilo.....

Was it known to have burst? YES.....

37. The first significant temperature inversion was of 5.5-9.5 °C at 10500 to 11200 ft measured at 0930 Kilo..... hrs from TOWNSVILLE..... station.

38. Any remarks on satellites, rockets, research balloons, comets, meteorites etc. relevant to the sighting: NONE FROM PREDICTION CENTRE. RELEVANT

- 39. When an aircraft is a possible identification, include radar trace if available, and ascertain which of the aircraft lights were operating .. ONLY A/C HEADING TO COIRNS WAS G402 WHICH WOULD ALSO NOT RELATE TO CIRCUMSTANCES ..
- 40. The cause (or likely cause) of the sighting can*/cannot* be determined.
- 41. The object reported probably was*/may have been* (delete as required)
A BALLOON OR PLANET ..

HQTVL Unit W.G. CANNIFFE(name)
9 JUL 73 Date FLYING OFFICER(rank)

13 JUN 73

© 2010

SIGHTING # 1


TERANG
VIC

ANNE FRASER

FROM DEPAIR	FILE 580/1/1 P126 (13)	DATE 25 JUL 78	REFERENCES HQSC 5/6/1 AIR(29) 11 JUL 78
TO HQSC	ATTENTION C INTELL O		
SUBJECT REPORTS OF UNUSUAL AERIAL SIGHTINGS			

Enclosed for your records is a copy of a letter from this Department to HQSC in reply to let report of an unusual aerial sighting.

Enclosure: copy of letter to HQSC.

SIGNATURE 	NAME R. EGGLÉ	RANK SERGEANT	APPOINTMENT DAFMO	PHONE NO 2408
--	------------------	------------------	----------------------	------------------

MEMORANDUM

RAAF FORM A273 MAR 63

For use within the RAAF only
Write or print clearly

OUR FILE

5/6/1/Air (29)

FROM

HQSC

DATE

11 JUL 73

TO

ATTENTION

REFERENCES

580/1/1 Pt26 (1A)

20 JUL 1973

Mrs A. Fraser,
18 Hampden Street,
TERRANG VIC 3264

Dear Mrs Fraser,

With reference to your report of an unusual aerial sighting on 13th June 1973, and subsequent telephone conversation with Squadron Leader Egle, the opinion of the investigating team is that the most probable cause was a sighting of a phenomenon called 'Kugelblitz' or Ball Lightning.

Various theoretical explanations were examined during the course of investigation of your intriguing report and these covered civil and RAAF airmovements, rail movements, satellite activity, marsh gas combustion and natural electrical phenomena. Of these, only the marsh gas and electrical phenomena appeared logical, but the marsh gas theory was eventually discarded because of the distances and movement involved in the sighting.

To explain the 'Kugelblitz' phenomenon, the following detail has been extracted from 'The Report on the Scientific Study of Unidentified Flying Objects' carried out in the U.S.A. by Dr. Edward Condon, for the United States Air Force:

'Among the most mysterious manifestations of atmospheric electricity is the phenomenon of ball lightning, or Kugelblitz. A glowing ball either (1) appears after a cloud to ground lightning flash and remains near the ground, or (2) (a) is first seen in midair, descending from a cloud, or (b) arising from no obvious cause thereafter remaining aloft until it vanishes. Some 85% of observers agree that the size and brightness of the ball remains roughly constant throughout the period of sighting and that no changes occur, even immediately prior to its disappearance. A minority report brightening and colour changes and about 30% of observers detect internal motions or rotation of the ball itself, although this may depend on the distance from the ball of the observer. Reports indicate guidance of the ball from telephone or power lines and by grounded objects.'

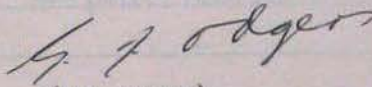
/By referring

Noa
Deeply DRK
20-7-73

By referring to the attached map, explanation of our theory is that the ball originated on the high tension lines in the vicinity of 3 miles north of Cobden, then travelled along these lines in a north westerly direction to Even Hill. At this point we think it remained stationary but initially increased in intensity thus giving the impression of moving toward your viewing position. It then began to fade, giving the impression of reversing, and eventually extinguished. The assumed high relative humidity of the surface atmosphere after the fog may have some bearing on the formation of the phenomenon, but as so little scientific knowledge is available to adequately explain the manifestation, this is purely conjecture at this stage.

We trust that this explanation is satisfactory and thank you for your report.

Yours faithfully,



(G.J. ODGERS)
Director of Public Relations

*1
G. J. Odgers
DAN
20/1/73*




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FBI - [illegible]

UNUSUAL AERIAL SIGHTING.

1. Attached is an unusual aerial sighting report from Mrs. A. FRASER of TERANG.
2. Due to the lack of background information for 13th June (weather, satellite predictions) a possible cause has not been given.
3. If a personal interview and on-site investigation is considered desirable, could DEPAIR approve travel. A telephone interview is considered impracticable.



SIGNATURE 	PRINTED NAME R.O. GIBBS	RANK AND APPOINTMENT Flg Off INT 1	PHONE EXTN 7410
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Department of Civil Aviation,
Melbourne.

18 Hampden
TERANG
15.0.73

FORM 264 //
REC'D 19 JUN 1973
FILE 136-211

Dear Sirs,

On Wednesday June 13th, 1973, two companions were returning to

Terang with me after a Guiders conference at Cobden.

At about 11.30 pm we saw a peculiar light travelling across the sky in front of the car. We notified police next day and were told to contact DCA. We did not contact the press, but did get in touch, on the advice of a friend, with Cr. Bill Manifold who is interested in the Vic. UFO Society.

Enclosed is a copy of description of what we saw.

No doubt there is probably a perfectly logical scientific explanation, far beyond our simple comprehension.

However, we hereby fulfil our "citizens' duty" by notifying your department herewith.

Yours faithfully,

Anne L Fraser

- Anne L. Fraser (Mrs.)
- Joyce Frankel (Miss.)
- Mary Sinclair (Mrs.)

Notes irrelevant carried out @ 3pm.

Three of us, all Guiders from Terang, were returning from a meeting at Cobden. We left the hall there at 10.30 pm on Wednesday, June 13th 1973.

On the way home to Terang we decided to drive down thru the bush to get a fresh rabbit for the captive sick owl at home.

We were coming back from the Garvoc area and turned off the Ayrford Rd at the bridge to come along a lane which leads from the Ayrford Bridge to the Dixie Road.

We were on this gravel road, travelling approx NE and at a point near where old Jim O'Leary had his out paddock. There is a windmill and shed on the N side of the road.

I was driving and shortly before had looked at my watch. It was 11.25 pm at that stage. We were surprised as it hadn't seemed an hour since we left Cobden.

As we reached this area I saw a white movement in the sky some way ahead, moving apparently from SE to NW.

I thought it was the white under belly of an owl as I have often seen them in flight at night. But the dull whiteness became more like a light. This puzzled me. I decided it must be an aircraft (tho there are few night flights in this district that I know of.)

I then thought it may be the headlights of our car on PWC or SEC wires; sort of "running along" the wires as I have seen on other occasions.

I said to my companions, Joyce and Mary "Can you see a light?"

They both replied ..Joyce first...(she was in front seat), that they could.

We discussed the possibility of a plane, helicopter etc. I decided to stop the car and watch it.

It was growing brighter so we put our lights out and stood in front of the car, hoping to hear any noise of a motor.

As we stood there, it suddenly ceased its SE to NW travel and appeared to come TOWARD us in a SW direction. As it came closer it was amber yellow in color and gave the impression of great heat,

(I had the strangest feeling " if that thing comes any closer I'll have to put up my hands and shield my face.)

Joyce was most alarmed and cried out, "It's coming down..start the car...let's get out of here."

Mary and I must have been mesmerised, we just stood watching.

Suddenly, almost as if it "saw" us, the light appeared to "reverse".

It did not turn. It seemed to back off, growing smaller and fainter as it ~~dix~~ disappeared into the NE in a line I would estimate as being between Cobden and Camperdown.

Only when it was completely out of sight did we resume our journey home, at 11.40pm.

After dropping Mary at her home, we told my husband and daughter.

They decided to join us and the four of us re visited the spot to try and find a logical reason for such a light. It was 1.45 a.m. when we finally wrote a note and put it under the door at the police station.

Police called on me next day and advised me to contact DCA.

Meanwhile I had explained it all to Meredith and Jean, then I heard from Mr Manifold.

We did NOT contact the press at any time, as I believed "UFO hysteria " could result, and there was no benefit to be gained by so doing.

The light reminded me of the headlamp o f a train...the way a train's light grows brighter and more intnse as it draws nearer.

But it seemed to be very large. We feel, when it was closest, it was about as round as the moon was on that night.

I was born in the city and spent my youth within a mile of Essendn airport; my brothers are aircraft engineers, and when one was in RAAF i visited Laverton and saw and learned a great deal about aircraft. I stay with my brother near Tullamarine regularly and have never seen aircraft lights like this light.

I have never in my life seen such a thing before, and expect I never shall again. I was not afraid, but more fascinated and extremely curious. I have read and heard of such things but never thought I would actually have such an experience myself.

I know nothing of space and its modes of travel, nor astronomy, but I do not believe this was a planet or star. It was not red. There was no sound. There was no "tail" or trail of vapour, nor was there any other light either in the sky ^{NEARBY} or on the ground in that area at the time.

There had been a heavy fog which had lifted at 9.30pm.

At the time of the sighting it was a clear, still, calm night; so clear in fact we drove without headlights the remaining 1.2 mile to the Dixie Road. The moon and stars were high in the sky and a few clouds were present on horizon.

I returned to the spot today, Friday 15th, with a compass to check out our estimated directions and exact mileage from Terang.

ASA Piaggio Portland - Essen
2225 GMT

13. What was the brightness? (compare with full moon or common light source at a stated distance, eg ordinary street light at 100 yards) AT CLOSEST POINT, STREET LIGHT 50 YD, MORE AMBER.
14. What was the apparent size at nearest approach?:
a. relative to Venus or Moon. LARGE AS MOON THAT NIGHT.
b. relative dimensions in inches at arm's length (about 20 inches from the eyes) 3"
15. What were the bearing and elevation angles at nearest approach and how were these values assessed? NON-INSTRUMENTAL, GUESSWORK.
16. Was any method of propulsion obvious? No.
17. Describe any sound heard, including changes in pitch and intensity NONE
18. What was the maximum and minimum angle of elevation (or height, if an estimate can be justified)? No. lower than 12° - not higher 20°
(it did not rise any higher)
19. What was the maximum and minimum angular velocity (or speed, if an estimate can be justified)? If necessary, compare with the movement of familiar objects at stated distances SIMILAR TO SPEED OF THE MELB-WBOOL PLANE
20. Give duration of any stationary phases APPROX 1 MIN.
21. Describe any deviations or manoeuvres. CEASED ITS SE-NW TRAVEL, CAME W, STOPPED, THEN ABRUPTLY "REVERSED" E AGAIN.
22. Describe any trail of exhaust, vapour or light seen. None
23. Where was object last observed :
a. relative to your surroundings OVER TOWARDS EWENS HILL WHICH WOULD BE TO LEFT OF CENTRE OF CAR WINDSCREEN
b. angle of elevation.....
c. compass angle bearing. E.
24. What was the manner of its disappearance? APPEARED TO "BACK OFF", BECOMING SMALLER AND FAIRER TILL IT WAS GONE.
25. Do you know of any associated physical evidence (such as fragments, photographs, scorching, ground indentations, residual magnetism or radioactivity etc)..... No.
26. State any training which enables observer to be reasonably certain of his/her ability to estimate angles and angular velocity..... NONE.
27. How many witness to the sighting? THREE.

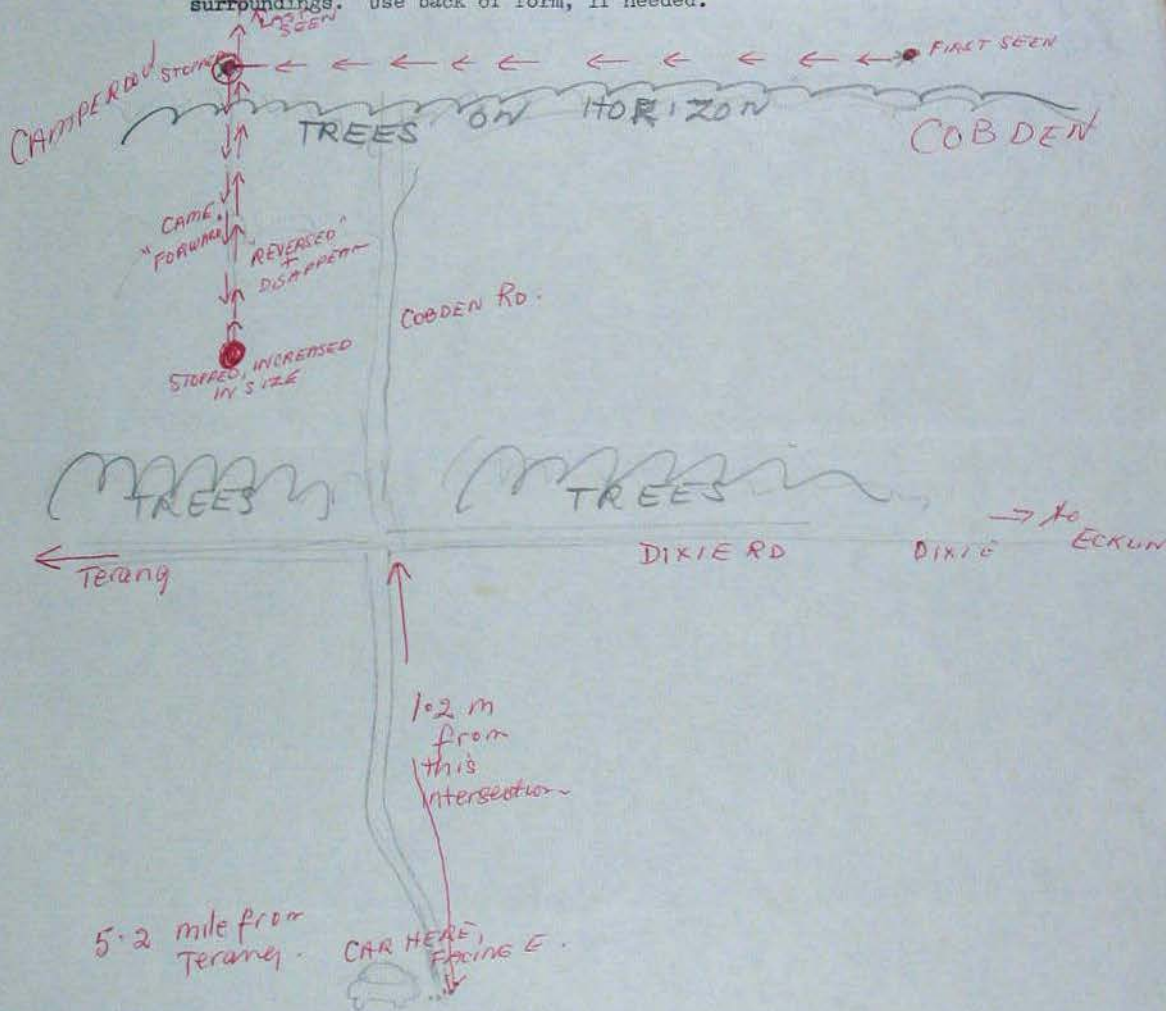
28. Do you know of witnesses to similar sightings in the area?... YES...

29. What natural phenomenon (or phenomena) would be nearest to explaining your observation?... FIREBALL, SPACE DEBRIS, MARSH GAS...

30. What are your main reasons for excluding this explanation?... SUDDEN

APPARENT CHANGE OF DIRECTION, & CHANGE IN SIZE.....

31. Please sketch the light/object with all details. If appropriate, sketch position and/or movement of object in relation to your surroundings. Use back of form, if needed.



5.2 mile from Terang

CAR HERE, FACING E.

Signature.....

Date.....

- 1 to -

Addendum:

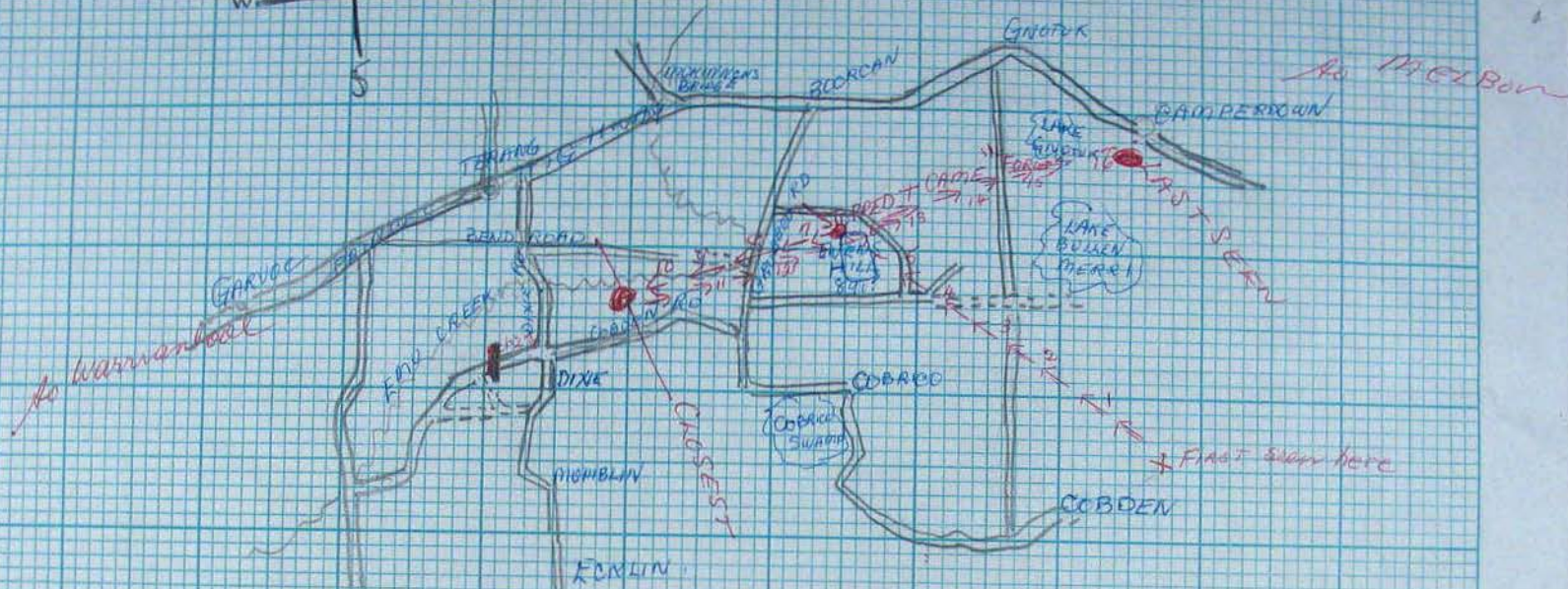
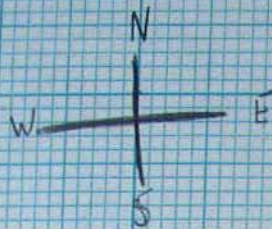
We are regularly re-visiting are in an endeavour to establish any "pattern" & have made at least a dozen visits - at varying times on varying nights over the 3 weeks since sighting.

Interesting development last night, exactly same time, but will continue studying this before further description. Suspect may have been satellite, if so, should again be visible at regular intervals?

Oliver L. Fraser

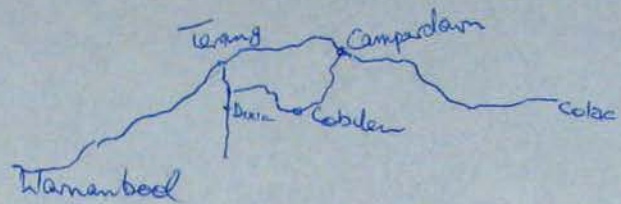
COLAC





- ┃ = car facing E here, 152m from intersection Cob-dixie Rds.
- = direction of travel + change of path.
- = seldom used or made gravel roads

N



Elements

10.30 p.m. Wed 13 JUN 73

en-route COBDEN - TERANG on gravel road
running from Ayrford bridge to Dixie Rd.

white movement ahead apparently moving
SE - NW

got out of car, stood in front

As ~~we stood there~~, suddenly ceased SE-NW
travel & appeared to approach (now
apparently travelling SW). Amber light

Then appeared to reverse NE in line between
Cobden & Camperdown until out of sight

Part 2 - Unit Evaluation

32. The following military aircraft were in the vicinity of the reported UFO position at the time:

A/C type... Nil(1).....(2).....(3)
Heading..... TT..... (T)
Height.....,000 ft.....,000 ft.....,000 ft
Speed.....K.....K.....K
ATD/ATA*.....hrs.....hrs.....hrs

33. The following civil aircraft were in the vicinity of the reported UFO position at the time.

A/C type... Nil(1).....(2).....(3)
Heading.....T.....T.....T
Height.....000 ft.....000 ft.....000 ft
Speed.....K.....K.....K
ATD/ATA*.....hrs.....hrs.....hrs

* Give location of nearest ATD or ATA

34. Observer's Location: Latitude. ~~38.1SS~~ Longitude. ~~142.5SE~~

35. Give bearing and elevation of any planets and major stars that were in that position of the sky at that time. By day, give location of Venus only.

.....

36. A meteorological balloon was released from.....

at.....Z..Colour.....Weight.....gm

Radio-sonde** radar** : Candle ** battery **
(Delete as required)

General wind profile.....

Maximum height tracked.....00 ft at.....Z

Was it known to have burst?

37. The first significant temperature inversion was of

.....at.....ft measured at.....Z hrs from.....

.....station.

38. Any remarks on satellites, rockets, research balloons, comets, meteorites etc, relevant to the sighting.

..... Satellite prediction info not available this office

/39. When an

Met Melbourne advise only wx for area would be 1500k readings which in their opinion would not be worth considering

39. When an aircraft is a possible identification, include radar trace if available and ascertain which of the aircraft lights were operating.

.....
.....

40. The cause (or likely cause) of the sighting
** can/cannot be determined.

41. The object reported ~~probably was~~ ** / may have been

.....
.....
! Space debris. Observer ~~at~~ may have been given an apparent false sense of direction if the car heading changed between the time of initial sighting and time the car stopped. With no satellite predictions available this opinion cannot be confirmed.

? If a personal interview and on site investigation is required, could DEPAIR approve travel?

.....
H8SCU
(Unit)

.....
11 JUL 73
(Date)

.....
R. O Gibbs
(Name of Investigating Officer)

.....
Flg. Off.
(Rank)

TITLE

580

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FILE NO

CLASSIFIED

PART

NO 26

REFERRED TO	DATE	REFERRED TO	DATE	REFERRED TO	DATE
DAF1	17.7-73				

FILE LOCATION CARD S12 SEP 64

When Complete Use Other Side

