

COMET BRADFIELD 1974G. = 1974 III

Additional data not yet  
on report forms.

All observations in this envelope  
now either on report forms and taken  
into account in the analysis or  
not on forms but taken into account - and  
hence all on analysis sheets Nos 1-15.

MJH.  
30/3/80.

8 555 50

BRITISH INTERPLANETARY SOCIETY

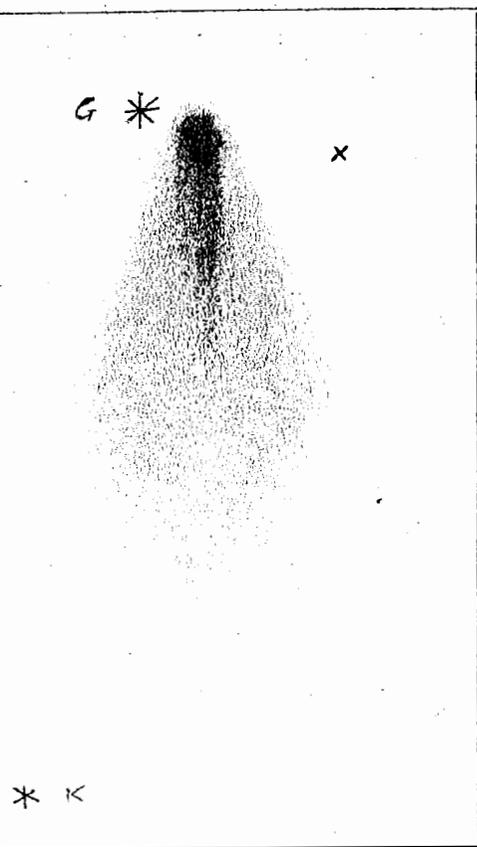
South Lambeth Road,  
London SW8 1SZ England

UNDATED MATTER

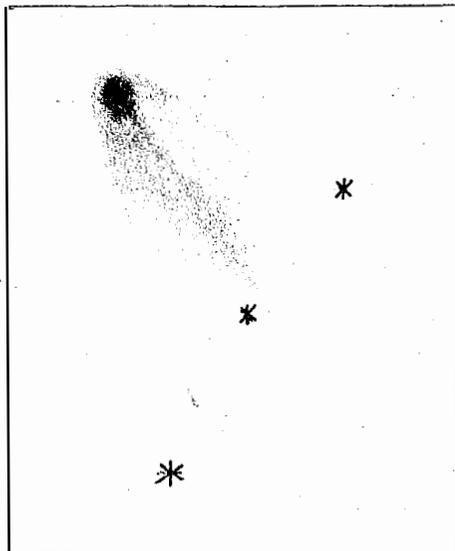
COMET BRADFIELD 1974 b

Drawings - 8 in (c), scale 5mm = 1' arc. (Field diam. = 60').

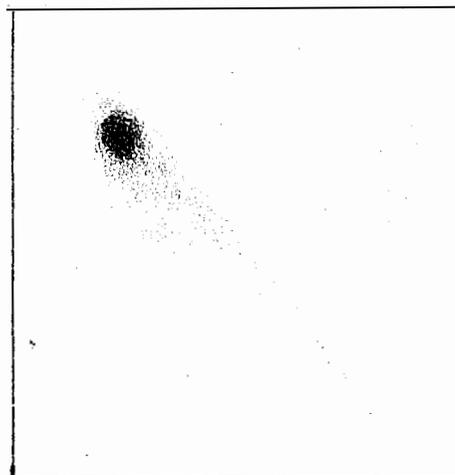
North approx. down. Comet moving north.



Apr 14, 21.20 UT.



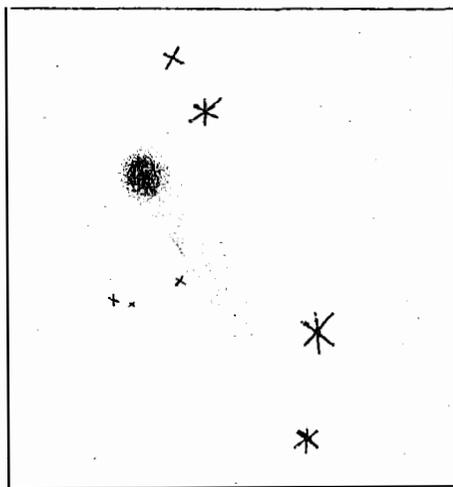
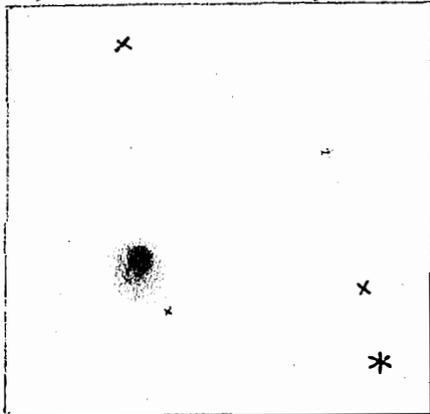
Apr 21,  
21.30 UT.



Apr 26/27,  
00.10 UT  
(sketch)



May 19/20, 23.00 UT (after passing N184)



May 2,  
01.50 UT  
(stars from Palomar)



John Rogers

✓ work  
29/4/74

John Brown  
41, Plumpton Way  
Eastwood  
Nottingham  
NG16 3LP

Dear Sir

Below you will find five observations of Comet Bradfield 1974b made by myself I hope they may be of some help however limited. These are my first comet observations ever apart from four observations of 1973f. Magnitude estimations may be over or under estimations I have done little of this work also but I am working on it. The observations range from 31st March to the 14th April 1974.

0.74 The comet was easily located in 20x50 binoculars at 19hrs 50mins UT and easily picked up in 216mm Spec F6. 56x mag found to be best the coma was quite round a bright starlike point was seen in centre possibly nucleus tail  $\frac{1}{2}^{\circ}$  to  $1^{\circ}$  long tail slightly flared from N of coma and slightly longer on S side edge  $30^{\circ}$  Colour bluish. At this point magnitude agrees well with predictions 5.7 comparison star  $\gamma$  Aetis estimate made with 20x50 binoculars throughout. The observation was made in rather misty conditions especially around N and NE however first quarter Moon also present I finished observing at 20.43 UT ✓ .854

1.74 On this observation the comet took a little longer to locate in the finder-scope presence of the full Moon was no help all fine detail lost in light and slight length only appearing  $15''$  long a cone was all that was visible extending from coma P.A.  $35^{\circ}$  magnitude approximately mag 6.0 a difference of 6 units from prediction only 2 units fainter than previous observation. Time from 19.35 to 20.40 ✓ .833

2.74 The comet was observed in far better conditions the length of the tail is now  $45''$  long and at its widest point about  $10''-15''$  coma about  $5''$  by  $4''$  P.A.  $30^{\circ}$  derived and magnitude 6.2 (a sketch is enclosed) Times of observation 20.30 UT to 20.30 UT ✓ .833

3.74 Again the sky was clear enough to see more detail by comparing the sketch to the change. ~~over~~ two nights can be seen I was quite surprised in the change such a short period the tail was only  $20''$  long P.A.  $30^{\circ}$  mag 6.7 ✓ .833 assumed

4.74 A further change in five days observed tail is more fan like tail  $20''$  very much fainter mag 6.9 P.A.  $25^{\circ}$  Coma  $3''$  by  $4''$  time 20.45 to 20.55 ✓ .875

I began to make out the nebula a further observation has been made on  
21st

RA Very little detail visible it is now becoming difficult to see in 20x50  
ultra's magnitude 8.5 approximately wide angle 40mm eyepiece used. Length  
10" the position of the predictions is out the position is approximately  
2hr 35mins Dec 69° 50" as opposed to RA 02hr 32 Dec 68° 38"  
An observation 21.00 to 21.30 . . . . . 885

I make any further observations I will send them whether permitting

M.G. " = ' the nebulosa'

Yours Sincerely  
John Brown

ACKNOWLED 27 MAY 1974

Dear Mr. Milbourn,

I regret to say that on the country side expedition I made to the place "Watervliet", the delicate optics of the Wright camera got out of focus giving the blurred images on the Comet Bradfield prints. <sup>1974</sup> The photographs I have taken at my observatory in Gent, do not reveal much of the comet with sky fog appearing after a couple of seconds exposure.

Some estimates made with a 14x100B (Wachter-Gigant, Germany) by Leo Aerts, Heist op den Berg/ Belgium :

1974 april 13,	20 <sup>h</sup> 40 <sup>m</sup> UT	7.4	length	14'	13.861
	14 20 40	7.6		14	14.861
	15 2 45	7.6		14	15.115
	16 21 00	7.9		13	16.875
	17 3 00	7.9		13	17.125
	17 21 00	7.9		12	17.875
	22 21 00	8.6		9	22.875
	24 21 00	8.8		8	24.875
	25 2 00	8.8		8	25.083
may	10 22 25	9.7		7	10.934
	11 1 45	9.7		7	11.073
	12 0 30	9.7		7	12.021

With my own 12x70B I found on may 11, 1<sup>h</sup> UT a faint tail of 13' <sup>mag. 9.3</sup> 11.042. For the coma

I found 10.9 in a 10 cm short focus refraktor at 34x.

The 12th and 13th the comet was just glimpsed in the 12x70B (Gent) total mag. 10.7 in the 10 cm 34x. *Time?*

I have ordered the SA <sup>star</sup> catalog, and hope to find in this work a better reference for estimating. I will use my Wright Camera as much as possible out from the citylights, in the future.

50 Einde Were  
9000 GENT  
Belgium

Yours sincerely,  
may 17,

*Ammand A Verschraegen*

A.A. Verschraegen

19 MAY 1974

Not on Record

COMET - BRADFELD 1974 b



OBSERVED BY - M.L. CLARK . S. JAMES

LOCATION - BIBRA LAKE Long 115°E Lat -32°

EXISTING MAGNITUDE - 5.0

AGE OF COMET - 6.6

TAIL LENGTH - 1.5'

WIDTH OF COMA - 3'

EQUIPMENT 5" FS REFRACTOR 70x

POSITION 0h 18.1m -29° 58'

DATE FEBRUARY 23.52 U.T.

COMET - BRADFELD 1974 b



OBSERVED BY - M.L. CLARK . H. SMITH.

LOCATION - PERTH 115°E -32°

EXISTING MAGNITUDE - 5.0

AGE OF COMET - 6.9

TAIL LENGTH - TRACE

WIDTH OF COMA - .3'

EQUIPMENT - 8" REFLECTOR 70x

DATE FEBRUARY 21.52 U.T.

WLD 1

COMET - BRADFELD / 1974 b



OBSERVED BY - M. CLARK.  
LOCATION - PERTH Long 115°E. Lat -32°  
LIMITING MAGNITUDE - 4.5  
MAG. OF COMET - 4.7  
TAIL LENGTH - 18'  
DIAM. OF COMA - 2'  
EQUIPMENT 5" f5 refractor 70x  
POSITION 1h 19.4m -17° 18'.  
DATE March 10.50 U.T.

---

COMET - BRADFELD. / 1974 b



OBSERVED BY - M. L. CLARK  
LOCATION - PERTH Long 115°E. Lat -32°  
LIMITING MAGNITUDE - 2.0 (full moon)  
MAG. OF COMET - 5.4  
TAIL LENGTH - 5'  
DIAM. OF COMA - 4'  
EQUIPMENT - 5" f5 refractor. 70x  
POSITION - 1h 16.2m -20° 21'

DATE - March 7.51 U.T.

WLD 10 MAY 1974

COMET - BRADFIELD/1974b



OBSERVED BY - M. L. CLARK. L. COUSINS

LOCATION - Bussellton. Long. 115°E Lat. -34

LIMITING MAGNITUDE - 5.0

ANG. OF COMET - 4.5

TAIL LENGTH - 3°

DIAM. OF COMA - 2'

EQUIPMENT 5" f5 refractor. 35x

POSITION 1h 35.6m -11° 16'

DATE March 15.50 U.T.

COMET - BRADFIELD/1974b



OBSERVED BY - M. L. CLARK. L. COUSINS

LOCATION - Bussellton. Long. 115°E Lat -34

LIMITING MAGNITUDE - 4.0

ANG. OF COMET - 4.4

TAIL LENGTH - 2°

DIAM. OF COMA - 2'

EQUIPMENT - 5" f5 refractor 35x

POSITION - 1h 35.4m -9° 56'

DATE - March 16.50 U.T.

VL'D 19 MAY 1974

COMET - BRADFIELD / 1974b



OBSERVED BY - M.L. CLARK. H. McDonald.

LOCATION - Forrestdale Long 115°E. Lat -32°

LIMITING MAGNITUDE - 4.0

ANG. OF COMET - 4.3

TAIL LENGTH - 1.5°

DIAM. OF COMA - 2'

EQUIPMENT 5" f5 refractor 35x

POSITION 14 54.8m -0° 27'

DATE March 20.49 U.T.

COMET - BRADFIELD / 1974b



OBSERVED BY - M.L. CLARK.

LOCATION - PERTH Long. 115°E Lat. -32°

LIMITING MAGNITUDE - 3.0

ANG. OF COMET - 4.3

TAIL LENGTH - 1°+

DIAM. OF COMA - 2'

EQUIPMENT - 5" f5 refractor 35x

POSITION

DATE - 11

Only 5 Apr 74 ... RF.

1.

"Oberon",  
Kayte Lane,  
Near Cheltenham,  
Glos., GL52 4AS.

1974. April 17th.

Mr. Milbourn,

1974 6.

Re Comet Bradfield, (which my Wife, or both of us, have seen with binoculars from over a period of some days), I enclose a few more estimates of magnitudes made with binoculars. More accurately, (as I have carefully either lost the carbon copy of my previous letter to you about it, or worse still made none at all), a complete list of magnitude estimations to the best of my ability. Some are moderate - although I should have preferred a more "step by step" method as I did with a Nova some years ago for the BAA - reliable one quite fair, and another not particularly accurate, as the comet was then just on orders of visibility - even with binoculars.

Full list again then as follows:

1974. April 5th.: Condensed, with suspicion of tail pointing upwards at rt. angle to horizon. Moon about one day before Full. Magnitude about equal to the Star No 30 in us, between  $\beta$  and  $\alpha$  Persei. 5.4

April 6th.: Magnitude slightly brighter than Star 62, near Star  $\Sigma$  228, and between  $\gamma$  and  $\eta$  Persei. Full Moon. Trace of tail. Central condensation of head. 5.1

April 7th.: No Moon, and condensation of head? Short tail (about one degree?), hanging out rather broadly. Comet a little brighter than Star 62. - as recorded on April 6th. 5.1

April 8th.: No Moon. Tail about one to two degrees long, and appeared to fan out broadly. Comets magnitude about as bright as Star on boundary line of Andromeda/Perseus slightly North and West of Group marked: "63", "64", "65", and "66" in Norton's Star Atlas (5; 16th Edition, 1973). 5.4

6.3

April 9th.: Comet seen at times only with averted vision. Magnitude about equal to Star "66" in group reported on April 8th. Head condensed. No tail seen.

April 13th.: Observed for short time from 2022 UT. with 8X30 binoculars, no magnitude observations made. Seen for short period in small hours of April 14th with 8X30 binoculars, and magnitude of Comet fainter than Star between Stars "5" and "9" in small group between  $\eta$  Persei, and  $\delta$  Cassiopeiae. 6.4

April 14th.: Observed with binoculars 8X30 from 2052 UT onwards. Magnitude estimated as similar to that of early morning observation of this date, as given above. No tail seen. 7.3

April 16th.: Comet on borders of visibility with binoculars (8X30), and question as to whether object being observed was actually Comet in question. In correct position as given by Ephemeris, but Star Clusters in near proximity. If object observed was Comet, then magnitude estimated was about equal to or fainter than Star between Star "5" and "9" in small Group between  $\eta$  Persei, and  $\delta$  Cassiopeiae. 7.3 7.4

Times given! Assumed 21<sup>h</sup>

Last observation with pinch of salt, due to star clusters in area of comet, but I just have been able to observe it that night.

Every light around us that you can possibly imagine is on again now, with several ones right near my telescope enclosure, which are not only very much in the way of any observations, but virtually dangerous, when I try to climb down my observing steps.

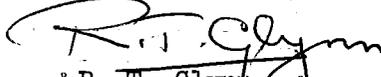
Vote of thanks from me personally to all the oil rich Sheiks, and may they soon put off the street lights once more! For the first time for almost more years than I can remember I was able to see the Z.L. from this address, although have observed it a number of times in recent years in the Cotswolds and the Tropics.

Expect to be at the BAA meeting next week, so hope to have a word or two with you about these observations, if you have a minute or two to spare.

I am still wondering what to do re proper star charts for much fainter magnitudes shown on Norton's Star Atlas. You mentioned one particular one, but is it easy to get hold of now?

As I am doing my own bit of Comet seeking to see if anything turns up, I shall certainly want a detailed set of charts.

Yours sincerely,

  
R. T. Glynn.

ACKNOWLED 19 MAY 1974

Not on Form

OBSERVATIONS NOTES

BY M.V.GAVIN

COMET BRADFIELD (1974b)

79 Ardrossan Road,  
Worcester Park Surrey,

✓ April 7 20.30UT: Comet readily located as an easy bright object below Perseus low in the NW through 15cm spec x50 (mid way between Alpha Per and Gamma And). Tail about  $\frac{3}{4}^{\circ}$  long: coma about 5' arc diam: bright nucleus: int mag 5.5 to 6.0 (suprisingly bright): tail curved to right. Through 10X50B easily found in sweep despite very poor conditions (mag 4.0 to 4.5 stars just visible to naked eye plus full moon rising in SE)

Note: In good transparency the comet should have just been a naked eye object and almost up to 1973f as seen early January.

✓ April 8 19.55UT Comet 1974b found with 10X50B in twilight sky (!! ) and fine object through 15cm spec x50. Tail about  $1^{\circ}$  long curved slightly to the right with hint of brightest streak the length of the tail located centrally. Coma seems smaller than yesterday -  $3\frac{1}{2}'$  to 4' arc diam. Seeing fair only but no problem with low power although transparency poor in comet area due to haze (mag 5 stars only to naked eye) ie Sirius only mag 1; Rigel invisible at  $5^{\circ}$  to  $6^{\circ}$  altitude. Comet mag (int) say 6.0: stellar nucleus: fanshaped tail

20.55UT Sky clears somewhat in NW: comet on borders of naked eye visibility. The comet successfully photographed via f/2.9, 200mm fl lens, HP3 @ 1000 ASA, unguided.

April 12 20.30 UT Comet found 10x50B only; lim vis mag  $3\frac{1}{2}$  to 4 (naked eye)

April 13 20.00UT Comet located through 15cm spec x 50 above the Double Cluster in Perseus; hint of tail but difficult.

20.45 UT Mag 8.0 to 8.5 star noted in coma equal to stellar nucleus. Coma oval; nucleus to sunwards.

21.30 UT Nucleus only visible (star eclipsed or too close to separate on low power)

April 14 21.30 UT 6cm OG x25 fine object above Double Cluster with  $\frac{1}{2}^{\circ}$  tail.

April 20 21.30UT ditto comet not found, hazy.

April 23 21.00UT 15cm spec x 50 Comet found but fair only in haze. Haze up to Polaris but crystal clear east to west via south! [Comet Enkes searched for with scope low WNW; not found Lady Hyades]

✓ May 1 21.00UT Comet found after first checking field (with 10x50B via Norton's) with 15cm spec x50 and kept in telescope field for 30 minutes to check movement across star-field (which it obliged to do) Coma about 5' arc diam; nucleus mag 8.5 to 9.0; hint of tail or slightly elliptical coma. Comet only  $12^{\circ}$  below Polaris and could be held for over  $3\frac{1}{2}$  minutes even in high power x250 field unguided (centre to edge)

May 2 to 12 inclusive; no comet observations attempted on the 2 or 3 clear evenings.

Note: Observation on April 7, 12, 14, 20 from Worcester Park. Observations on April 8, 13, 23, May 1 from 600ft site near Dorking.

Not entered  
Not entered

A.L.P.O. COMETS SECTION

COMET BRad Field (1974b)

Observer Karl Simmons

DATE (UT) 3/9/74 9 MAR 74

Address 4238 Springwood Road  
Jacksonville, Florida, 32207

TIME (UT) 00:40

DISTANCE FROM HORIZON ~5°

PLACE OF OBSERVATION SWITZERLAND, FLORIDA

APPROXIMATE RIGHT ASCENSION 01h 11m DECLINATION -20°

SKY CONDITIONS: Comet very low on horizon and viewed through much atmospheric haze - smoke, Transparency about 1.5 (0-5 scale). clear dark skies.

Magnitude Estimates:

Total Magnitude 7.1 Telescope 8" Mag. of Nucleus      Tel.     

F15 Reflector (BOBROVNIKOFF method)

Comparison stars and catalogue: AAVSO sequences (UVet)

Description:

Length of tail      Position angle of tail     

Remarks on tail: No tail

Coma Description:

Round, 4' in diameter

Degree of Condensation of coma (0=diffuse, 9=stellar)  2.0

ACKNOWLED 19 MAY 1974

Comet Bradfield 1974b.

- 3 April - 20<sup>h</sup>52<sup>m</sup> - 21<sup>h</sup>37<sup>m</sup> UT. Mag: 5.3 Tail 25'  
- The tail is wide and fanlike and may exceed 25' in length. Conditions. Fair but moonlight.
- 7 April ✓ 21<sup>h</sup>20<sup>m</sup> - 35<sup>m</sup> UT. Mag 5.5. The tail may have been up to 80' in length. The coma is more diffuse than on ~~Apr~~ 3<sup>rd</sup>. Conditions. Good.
- 8 April ✓ 20<sup>h</sup>30<sup>m</sup> - 22<sup>h</sup> UT. Mag. 5.7 Tail 1°. The coma appears to be larger than on 7<sup>th</sup> but is still diffuse. Conditions. Very Good.
- 15 April 21<sup>h</sup>50<sup>m</sup> - 22<sup>h</sup>30<sup>m</sup> UT. Mag 6.3 Tail 1/2° Conditions. Very Good.
- 16 April 21<sup>h</sup>30<sup>m</sup> - 21<sup>h</sup>55<sup>m</sup> UT. Mag 7.6 Tail 20'. The comet seems to have faded by over a magnitude since yesterday although the tail seems brighter. Conditions. Good.

Not confirmed by any other observer

Unknown - not entered  
Instrument?

OBSERVER?

ACKNOWLED 79 MAY 1974

April 8<sup>d</sup> 21<sup>h</sup> 25<sup>m</sup> UT.

April 16<sup>r</sup> 21<sup>h</sup> 40<sup>m</sup> UT.

Not see Perseus

# KESHAN CARPETS

D. FRYDMAN

16, DOBREE AVENUE, WILLESDEN,  
LONDON, N.W.10

6  
11/4/74

Agencies : FINLAND • SCANDINAVIA • EIRE • MALTA



14/4/74

Milbourn,

COMET BRADFIELD 1974b

- (10/4/74. <sup>O.A.T.</sup> 20.30 - NOT DEFINITELY SEEN - MAYBE MAY 7.) 10x68 max DC
- 11/4/74. 20.30 DIFFUSE mag 6.3? (Every day up to now has been misty - limiting mag 4).  
- 854
- 13/4/74. 22.00 1st. clear night - after rain - Diffuse maybe tail mag 6.2? 10x68  
- 917 (and ELBOW Talc. not clear)
- later - maybe  $\frac{1}{4}^\circ$  tail as previously - (limiting mag  $5\frac{1}{2}$  eye).
- 14/4/74. 22.10 Easier than yesterday - tail maybe  $\frac{1}{2}^\circ$  - and coma brighter than tail  
- 913 maybe sky clearer or tail brighter. (limiting mag  $5\frac{1}{2}$  eye)

Sincerely,  
D. Frydman.

when referred up to 13/4/74 seemed offset from Coma? - but couldn't be seen any way with direct vision.

Not our comets

# KESHAN CARPETS

D. FRYDMAN

16, DOBREE AVENUE, WILLESDEN,  
LONDON, N.W.10

Agencies : FINLAND • SCANDINAVIA • EIRE • MALTA



3/24  
?

Mr. Milbourn

23-4-74

Comet Broadfield, 1974b

10+68 Modoc

-74. 00.30 - Mag 7½ - MISTY CONDITIONS. difficult to see no. 7 mag star.  
.021  
Saw Mag 8 star

-74 - 23.40 - Diffuse some tail - excellent night - (lim mag 5-6 eye).  
+986  
Mag 8 or 7½? (No companion star).  
7-8

-74. 22.20 - (slightly misty sky - lim mag 5-eye).  
+930  
Maybe glimpsed comet Mag 8? (Seen several times but? comet or star).

-74 22.00 - (shabby misty sky - lim mag 5.3 eye).  
+917  
~~seen~~ Mag 8? (Seen? or maybe a star - but I think seen a few times).

(Sorry all mag estimates have been so vague - but only Monocular used.)

Not studied in my 8" reflector as no time to set it up!

not clearly seen for accurate assessment - and viewed from

Sincerely,

D. Frydman

Not on Form



SCIENCE RESEARCH COUNCIL.

Royal Observatory Edinburgh

EDINBURGH EH9 3HJ

Telephone 031-667 3321

Telex 72383

In any reply please quote:

Your reference:

✓  
21)4/74.

Bushfield 19246.

1974 April 16

Dear Mr. Milbourn,

Thank you for your acknowledgement. I reply to your enquiry, I used 11x80 binoculars. Further observations are as follows:—

1974 April	magnitude
✓ 8.85	+6.5
✓ 9.83	+6.6
✓ 13.85	+7.2
✓ 14.15	+7.2
✓ 14.85	+7.3

I hope these prove useful.

Yours sincerely

Russell Debert

# COMET BRADFIELD 1974b

Information is  
On Rpt. Form 16/2/74  
John Rogers

DATE	MAG.:	COMA DIAM.	TAIL LENGTH:	TAIL P.A.	DESCRIPTION		
	(binocs.) (tel.)	(tel.)	(binocs.) (tel.)				
✓ Mar 31/32	4.9		45'	61°	Tail quite easy, fan: off-axis ray. V. bt. nuc. in bt. circle coma.		
✓ Apr 6/7	4.9		-	-			
Apr 13/14	?						
✓ Apr 14/15	6.6	2.0'	18'	12'	28°-48°-73°	Broad bright fan tail, brightest on axis, sharp edges	
✓ Apr 21/22	7.9	<del>2.0'</del>	17'	9'	15°-40°-65°	Broad fan but fainter; central ray, poss. f ray.	
✓ Apr 23/24	7.9		2.1'	14'	10'	40°	Main ray brightest, + ft. fan.
✓ Apr 26/27	8.8	2.0'		~10'	~40°		Main ray brightest, + fan: all faint.
Apr 30/31	9.2	(9.1)*	1.5'	-	-		Cond., no nuc. (Dt. moon)
May 1/2		( )*	1.2'	~6'?	~25°		
May 13/14							Photographed near Pole.
May 14/15							Photographed near Pole.
✓ May 19/20	9.3		2.0'	-	-		Dt. stellar nuc, off-centre.
✓ May 26/27	(9.5)*		2.3'	-	-		Ft. stellar nuc, off-centre.
Jun 4/5			~1.5'	-	-		V. ft. (Moon in eclipse!)

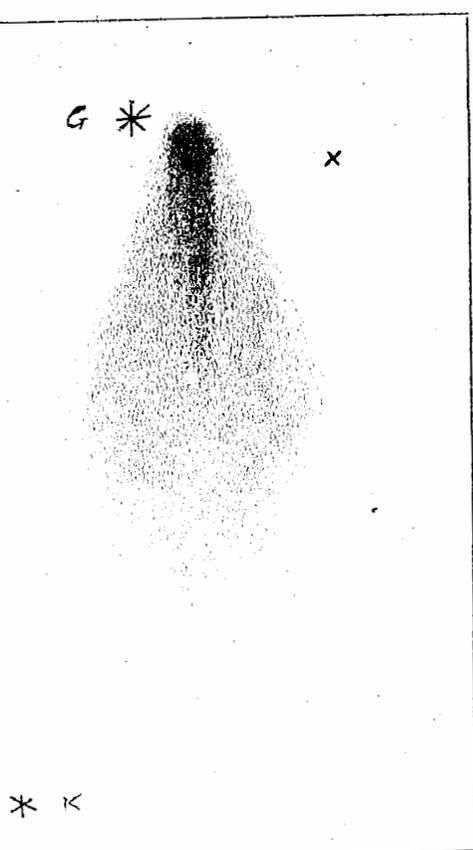
Obs'ns on Mar 31 + Apr 6 were at Hull: Apr 14/15 + thereafter at Cambridge.

\* These mag. dubious ∴ SAO values inconsistent by several x0.1 mag.

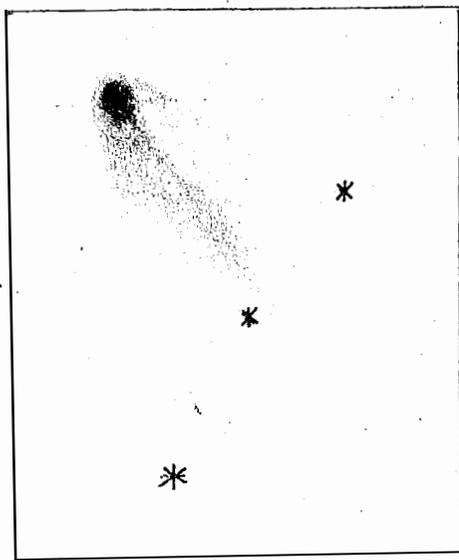
COMET BRADFIELD 1974 b

Drawings - 8 in (c), scale 5mm = 1' arc. (Field diam. = 60').

North approx. down. Comet moving north.

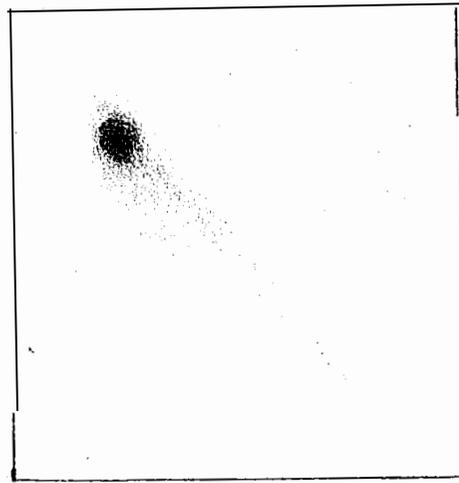


Apr 14, 21.20 UT. S



Apr 21,  
21.30 UT.

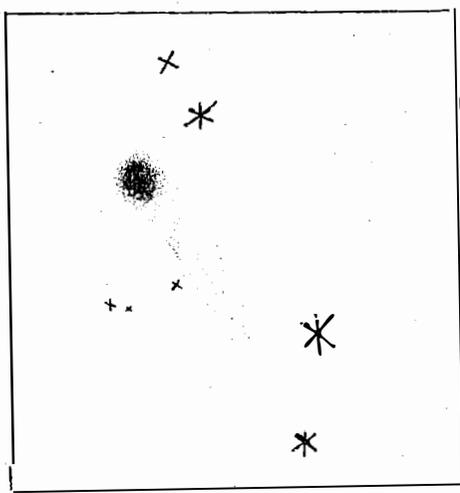
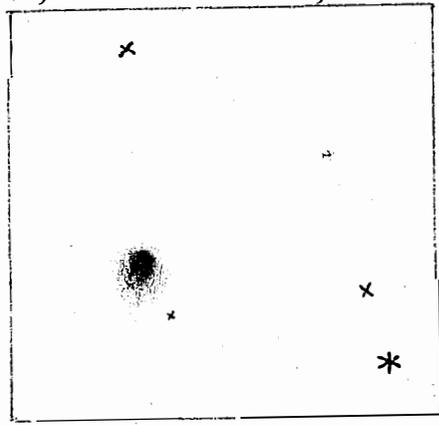
S



Apr 26/27,  
00.10 UT  
(SKETCH)

S

May 19/20, 23.00 UT (after passing NFB4)



May 2,  
01.50 UT  
(stars from Palmer)

S

Jane Rogers

ACKNOWLED 19 MAY 1974

COMET BRADFIELD 1974b

Rpt Form.

✓ 24-25<sup>th</sup> APRIL 1974 2350 - 00.05UT HOME HEATH  
254mm Refl x 48.

R.A. 2h. 35m Dec. +73° 15' VERY APPROX  
AT 00.00  
1950.0

Seeing was good as far as limiting mag was concerned but the comet was only viewed for at most five minutes between considerable clouds. There were a few clear patches which eventually filled with cloud.

Mag. estimates were made and a series of 3 mag 7.5 - 8.0 stars compared well. I was surprised to see that the comet had not decreased in brightness as much as I expected. I estimate the mag at 7.4 certainly no less.

Coma dia at most 4" possibly less. The fan shaped tail is still observed and was about 15" in length with a brighter portion about 10" in length. The coma is still quite condensed. I still suspect that there are two bright components in the tail as indicated in the drawing.

The view was very rushed and I fear it may lack accuracy.

P. B. Scherby

ACKNOWLEDGEMENT

Rpt 2m 1

COMET BRADFIELD 1974b.

✓ APRIL 25<sup>th</sup> 1974 23:00 - 23:15 UT. SOT ROSE HEATH.  
 234mm Refl x 48. 10x50 BINOCULARS

RA 2h 34.8m DEC. +74° 12' <sup>23:00</sup> VERY APPROX.  
 1950.0

Seeing Excellent. Limiting overhead mag 6.3  
 Good crystal clear sky. Some artificial light.  
 Comparisons were made with both 10x50.  
 and the 234mm and an easier estimate was  
 made with the binoculars. There was a group  
 of 4 stars N. of the comet which compared  
 well as did the triangle of stars used  
 yesterday. I estimate the mag at 8.0.

The coma is about 3'-4" with a small  
 faintly condensed centre 2" in dia. It does  
 on this occasion seem quite centrally condensed  
 again. The tail is still very much as  
 might be the outer coma. I have never seen  
 a comet of this mag. with so prominent  
 a tail before. It is still fan shaped and  
 the maximum length is 15". This fan  
 shape was particularly obvious with the  
 10x50s. I still suspect two bright comae  
 in the tail one long ray 15" in length  
 and a shorter ray leaving the head at  
 about a 25° angle to this longer ray.

(see drawing)

P.B. Sobczyk

COMET BRADFIELD 19746

26<sup>th</sup> APRIL 1974 22 45 - 23 00 UT ROOE HEATH <sup>S.O.T.</sup>  
 254 mm Refl x 48 10x50 BINOCULARS

R.A. 2h 35m 2 Sec + 75° 16' 1950

Seeing excellent. Limiting overhead mag 6.3.  
 Bright crescent moon low in west not  
 affecting sky much. Artificial lights  
 also showing little effect.

Mag. comparisons were made with  
 the stars in the group around the  
 comet. The two close by and forming  
 a triangle with the comet were quite  
 close. The star well to the right was  
 brighter. I estimate mag at 8.2. It  
 certainly appeared fainter than last night.

Coma still to appear, seems to  
 be remaining this size. Very condensed  
 small area near centre. Fan shaped tail  
 still quite obvious though becoming less  
 so, certainly not difficult. Though  
 only appeared about 10' - 12' long.  
 The comet was easily seen  
 with the 10x50s and put me very  
 much in mind of 1951 as far as  
 brightness, in fact they are practically  
 identical.

P. B. Doherty

ACKNOWLED 19 MAY 1974

Rpt Yom.

COMET BRADFELD 1974 b.  
10<sup>th</sup> ~~MAY~~ 1974 22.05 - 22.20 UT. ROSE HEATH POST  
✓ 254 mm Refl. x 48 x 10x50 BINOCULARS.

R.A. 03h 14.8 DEC. + 87° 7.5'

Seeing perfect. Buggy night after very rough day. First good night without moon for a while. Humidity overhead mag. 6.5.  
Really crystal clear.

Mag. of comet compared with many surrounding stars. I was surprised with the ease with which I could see it and it was still fairly easy with 10x50s.

3 stars in particular were used and using 1-10 scale would be as follows. Brightest star 1, dimmest 10, nearest star to comet mag 5, comet 4. Estimate for 1974b. would be 9.0.

The coma was still very condensed and resembled a very small globular cluster, or even planetary nebulae. Dia of coma 2.5 with smaller bright inner area.

A faint extension was observed giving faint indications of a still existent tail still faded. Although still definite it is now becoming more difficult. Length of this extension 6' - 5'.

Comet only 2° from Polaris

ACKNOWLEDG <sup>MAY 1974</sup> COMET BRADFIELD 1974 b.

12 MAY 1974 00.20 - 00.30 UT. RODE HEATH S.O.T.

234 mm Refl x 48 &amp; 10x50 BINOCULARS.

12.017

R.A. 03.32. Dec. +87°56'

Seeing very good. Some hazy cloud but generally very clear. Sunting overhead mag 6.0.

Mag comparisons were made with stars surrounding comet but closest was just off the field. I made the comet slightly brighter than all the stars shown. Estimated mag. of 1974b. 9.0

Coma still condensed small and round 2' in dia slight extension still visible as shown on sketch. No real structure visible.

Comet now in same field as Polaris. With x 48 I could see both at same time. Dist approx 1°.

ACKNOWLED 19 MAY 1974

COMET BRADFIELD 1974b

13 MAY 1974 21:50 - 22:45 UT RIDE HEATH S.O.T.

254 mm Refl x 48" x 100

13.930

RA 5h 12m Dec. +89° 09'  
(89° 09')

Seeing excellent. Comet clear sky. Occasional light clouds. Humidity overhead very 6.5. Halley very clear & through low.

Mag estimates made by comparing with stars shown on the field sketch. From this I give a mag of 9.3 - 9.2.

Comet dia about 2'. Very condensed & compact. With higher magnification noticed that there was a very condensed area surrounded by a faint area. Faint extension still suspected. I was still surprised by the degree of condensation.

COMET BRADFIELD 1974 b

17<sup>th</sup> May 1974 22.50 - 23.10 UT RASC Heath S.O.T.  
254 mm Refl x 48

17.958

R.A. 13h 34.5, Dec. + 87° 52' 23.00  
1950.0.

Seeing Not Brilliant. Some light sky haze but not too bad. Scintillation overhead very 5.8

Mag of comet compared with star shown on sketch, however, this star was slightly brighter than 1974b. Estimated mag. of comet 9.5 - 9.7 was like 9.7

Comet not so condensed as usual about 2' in dia. Still brighter towards centre. Second comet in shape could not detect any sweep as in previous observations. Conditions did not help.

P. B. Roberts

ACKNOWLED 19 MAY 1974

Not on form

Not ?

COMET BRADFIELD 1974 b.

14 May 1974 23.10 - 23.25 UT. ROSE HEATH S.O.T.  
254 mm Refl x 480 x 100 10 x 50 BINOCULARS

14.970

1950.0 R.A. 8h 44.1 Sec. + 89° 26' 23.15 UT.

Seeing excellent though not quite as good as last night. Seeing very good. No artificial light.

Very compared to stars shown on sheet I definitely report an increase in brightness since last night. I compared favourably with the star and I give a mag. of 7.0 for 1974 b. It appeared slightly brighter than slightly poorer resolution.

Since Jan 73 appearing larger than last night. Very condensed but centre and tail very condensed. I easily saw a faint sweep from the main sheet was the remainder of the tail.

Head still close to nucleus. Unquestioned photographs were attempted.

ACKNOWLED 19 MAY 1974

Not on form <sup>Not</sup>

COMET BRADFELD 1974 b

15<sup>th</sup> MAY 1974 22.50 - 23.10 UT RODE HEATH S.O.T.  
254mm Refl x 48" x 100

at 23.00 RA 11h 51m Dec + 89° 04' 1950.0  
15.958

Seeing good but slight sky haze though  
at altitude of the comet not causing much  
trouble secondary overhead mag 6.0.

Mag comparison made with star shown on  
sketch Estimated at 9.5.

Coma still fairly condensed at centre  
but becoming diffuse now. Dia 2.5' at  
most. Fairly fan & coma as shown in  
drawing suggested two brighter portions in  
shape of a V.

✓ 29

Not on form

Not ?

# COMET BRADFIELD 1974b.

20 MAY 1974 23.40.00.00 UT. ROSE HEATH S.O.T.  
25mm Refl x 48.

20.993

23.40 - R.A. 14h 1m DEC. + 85° 55' also

Seeing very good limiting magnitude mag 6.0 some clouds but slow moving and not in area of comet.

Mag compared with star shown on field sketch which according to Atlas Borealis is of mag. 9.5 however I suspected the comet to be less than this and estimate a mag of at most 9.8 more like 10.0.

Comet small and round still reasonably condensed for its size. Brighter at centre. No 2' definite sweep observed as shown in drawing but seen by averted vision only.

R. S. Doherty

COMET BRADFIELD 1974b

- Apt. Fm.

9<sup>th</sup> JUNE 1974 2330-0000 (10 min) ROSE HEATH SOT.  
25<sup>th</sup> mm Refl x 96

RA 14h 32m DEC. +73° 55' ? JUNE 9-98  
Very  
approx

Seeing Not good for so faint an object  
However, considering the time of year, conditions  
were ideal. It was a matter of waiting for  
the darkest period. Even during the observation  
twilight was still very evident. At the  
end of the obs a bright half moon was  
visible low in the east. M13 visible  
to unaided eye.

Mag of comet difficult to estimate. It  
was almost on the limit of visibility,  
and at times was invisible. I ~~was~~  
had many glimpses of it by averted vision  
and am pretty sure it was the comet.

A comp star is indicated. This was slightly  
brighter than 1974b when out of focus.

I estimate a mag of 11.5 for 1974b  
and attempt to say less but owing to  
conditions of sky (twilight) this is probably  
close.

Size of comet 1.5" at most. Round  
and very very diffuse. At times I wondered  
if I was seeing things.

P. B. Stober

On Form

COMET BRADFIELD 1974b.  
13<sup>th</sup> - 14<sup>th</sup> June 1974 23.55 - 00.15 UT. RODE HEATH.  
254mm Refl. x 96.

R.A. 14h 36m Dec + 71° 58' 1950.0  
JUNE 14.0. Very approx.

Seeing excellent apart from astronomical twilight which was not too bad.  
Limiting overhead mag 6.2. M13 easy.

Mag of comet approaching 12.0. I compared it with the owl neb. M97, and found this easier than the comet by far, though much larger. Comparing these I would say that 12.0 was probably an over estimate.

Coma dia 1' possibly slightly more very diffuse indeed. At times I could not see it. It was close to a star and the suspect movement gave me confidence, so I am sure it was ~~it~~ 1974b.

Usually seen by averted vision only. No structure whatever.

P. B. Dole

✓ Information from  
Report Form, R.F. 167/170

COMET BRADFIELD 1974b P. J. Scheraga  
13<sup>th</sup> APRIL 1974 22.30 - 23.30 UT. ROSE HEATH  
254mm Refl x 48 x 10x50 BINOCULARS.

R.A. 2h 29.9m. Dec. +58° 29' at APRIL 13.94  
1950.0

Seeing very good. Brilliant clear sky after heavy cloud. Very cold (freezing) humming overhead mag. 6.5 Comet getting low in sky.

Mag of comet getting difficult to estimate. It compared fairly well with 10 Perseus. I estimate integrated mag as 6.5 Now decreasing in brightness quite quickly.

The coma was still condensed but no longer has the extreme central cond., however, it is still fairly centrally condensed. Dia of coma 5' possibly slightly more but not much. It extended into the tail. No real nucleus was seen.

The tail seemed quite odd in shape. First of all it appeared as a bright spine close to the coma, making same appear double at times. It then fanned out into two bright and fairly long components. The maximum length was about  $1/2^\circ$  but the last portion was very faint and difficult. Suspected more tail structure but very elusive.

A further interesting point was that both the comet and the sword handle (double cluster) in Perseus were visible together in the field of my 10x50 Binoculars. and made a fine sight.

COMET BRADFIELD 1974 b  
 14<sup>th</sup> APRIL 1974 01. 24 - 01. 35 UT Rude Heath Sci  
 254mm Refl x 48.

R.A. 2h 30.0 Dec + 58° 47' at APRIL 14.06  
 1950.0

Seeing. Excellent clear patches between clouds.  
 Comet pretty low. Artificial lights in area now  
 all switched off.

Apart from the considerable movement of the  
 comet I decided to make a further obs  
 only 3 hours after my last because of  
 the difference in appearance of the comet.  
 May estimate again about 6.5  
 possibly slightly less.

I did detect a star like nucleus,  
 surrounded by a condensed glow. The  
 striking thing was that I suspected  
 this bright condensed portion to be  
 double and was pretty definite about this.  
 The bright portion definitely appeared  
 dumb bell shaped. A line through this  
 would have been the same p.a. as the  
 main tail. The tail now looked like a  
 broad fan with two possibly three bright  
 rays ~~not~~ involved and at most I could  
 only make out about 1/8° tail length.  
 The coma appeared 5-6' in dia. The  
 appearance of the comet looks somewhat  
 different than it did three hours ago.

(See drawings April 13<sup>th</sup> & 14<sup>th</sup>)

Photo's were taken but are not detailed  
 enough to show structure

Comet BRADFIELD 19746.

14<sup>th</sup> APRIL 1974 20.35 - 21.30 UT. S.O.T. ROSE HEATH  
 234 mm Refl x 48 x 200 x x 300, 10x50 BICOLOURS.

R.A. 2h 30.25 Dec + 60° 00' 20.35 UT 1950.0  
 R.A. 2h 30.25 Dec + 60° 07' 21.49 UT

Seeing excellent. Crystal clear sky, comet high and well out of smoke from houses. Some artificial light, but grand view. Limiting magnitude mag 6.5

Mag of comet compared well with two stars with following positions and mags taken from 'Atlas Borealis'

R.A. 2h 16m Dec + 59° 48' approx Mag 6.5

R.A. 2h 07m Dec + 59° 45' " Mag 7.0

The comets mag appeared exactly between the two putting it at 6.75

Coma appears larger. 6.5. There is however a condensed inner coma. Also observed stella nucleus mag 10.0 - 10.5. The tail didn't appear so flared as on my last obs. It was double and about 1/8° long with a fan structure near the coma. (See sketch).

When viewed through high power some structure was suspected in the central cond, most notable was a bright spine leading into the tail

1/8° tail also visible in 10x50s.

COMET BRADFIELD 1974 b

15<sup>th</sup> APRIL 1974 21.30 - 22.50 UT. Rode Heaven S.O.T.  
254 mm Refl x 48 10x50 BINOCULARS.

R.A.  $\alpha$ h 31.2 DEC +61° 40'  $\alpha$ 50.0 at 21.30

Seeing. At first seeing was pretty poor improving later. At end of observation limiting overhead mag 6.3. Perfect during early hours of 16<sup>th</sup>. Comparison was made with three stars one 7<sup>th</sup> mag star was slightly brighter and one 7.5 mag star slightly dimmer. Estimated mag at 7.2 + 7.1 6.5 mag stars were much brighter. This is a fair drop in mag since last night and conditions might have something to do with it however I could not make the mag any more than 7.1 - 7.2.

The coma is still centrally bright and I suspected a faint nucleus still present however the whole coma is now becoming fainter and more even. The dia was increased 6' possibly slightly less with a fan shaped extension into the tail. The tail itself is now exceedingly faint and I could not make out more than 14° ~~long~~ in fact less than this. I still suspected the ray or spine structures in the flared portion near the head.

With 10x50 binoculars 14° tail could just about be seen even with this instrument. The wedge shape of the comet could be seen.

Photos taken 22.00 UT. 15min, 22.35 UT. 15min and 00.35 UT. 16<sup>th</sup> 15min.

COMET BRADFELD 1974b  
 16<sup>th</sup> APRIL 1974 20.45 - 22.05. ROSE HEATH S.07  
 254mm Refl x 48

RA 2h 30.5 Dec + 63° 02' 19.400 } 14500  
 RA 2h 30.5 Dec + 63° 10' 2.400 }  
 RA 2h 30.5 Dec + 63° 17.5' 00.000 } 17<sup>th</sup>

Seeing not too good. Haze in sky and some glare on this from local artificial lighting - dimming overhead way 5.8.

Star comparisons were made with the two stars marked on the sketch, and a bright double star indicated by the arrows. The two stars were fainter at mag 8.0-8.25 and the double star at mag 6.5 was much brighter. Better comparison was found with 10x50s and I estimate the integrated mag of comet at 7.5 at most.

The coma is becoming rapidly less condensed however is still very much brighter at the centre. Dia about 5'-5.5' with a fan shaped extension into the tail. The tail was extremely difficult and about 15' long at the west with a brighter section 10' long. The fan shape around the head was still pretty obvious with brighter sections still faintly visible though becoming difficult.

Photographs were taken at 21.26 UT & 21.47 UT each with 15 min exposure on TRV at 7.5

15 CM. SPECULUM  
7X50 BINOS.  
ACKNOWLED 19 MAY 1974

8 POTTERGATE  
HELMSLEY  
YORK  
YO6 5BY.

COMET BRADFIELD 1974 b

APRIL 7-89. SEEING GOOD.

02H 26M +47° 15'

M = 6.2 AND (3) 6.4 AND (2) COMET = 5.8 BINOS.



15 CM. SPEC.  
x24 x48.

Coma 4' diameter bright nucleus.  
stellar at times. stubby fanlike tail  
at 55° 10-12' long. very bright  
with moonlight.

H. M. Sturdy.

Not on Perseus

15 CM. SPECULUM.  
7X50 BINOS.  
ACKNOWLED 19 MAY 1974

8 POTTERGATE  
HELMSLEY  
YORK  
YO6 5BY.

COMET BRADFIELD 1974 b

APRIL 8-85.

POS. 02H 27 +49° 15'

M = 6.3 AND (1) 6.4 AND (2) COM. = 5.7?

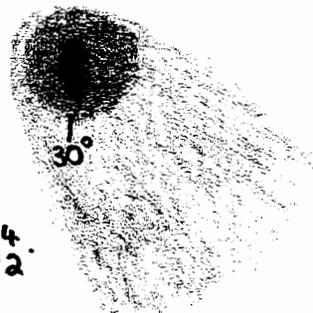
BELVAR & BACKHOUSE BOTH HAVE 6.4 AS THE  
BRIGHTER. EST. 7X50 BINOS.

SEEING EXCELLENT.



15 CM. x48 x72.

PA 43° ± 1 or 2°  
25-30' long.



x144.  
x192.

Very fine telescopic object though  
poor in binoculars bright nucleus  
fuzzier in higher powers.

Mag. of nucleus. - Nuc. (3)A (1)B x48

A at  $02^h 25^m 30'' + 49^\circ 27'$

B at  $02^h 25^m 30'' + 49^\circ 20'$

Coma 4' diameter. fanlike tail  
25-30' at  $43^\circ$ . A double nucleus  
was suspected in x72. but in x192 the  
became a streak of light perhaps  
20-30" long issuing from the nucleus  
at PA  $30^\circ$  (see drawings) seeing  
excellent.

15 CM. SPECULUM

7X50 BINOCULARS

ACKNOWLEDG. 19 MAY 1974

8 POTTERGATE  
HELMSLEY

YORK

YO6 5BY.

COMET BRADFIELD. 1974b

APRIL 14. 087.

POS.  $02^h 30^m + 58^\circ 47'$

M = SLIGHT FAINTER THAN  $\delta$  26 CAS. = 7.3

The comet was so close to this star that  
reliable extra-focal obs. were unreliable.  
I can find no mag for this object.

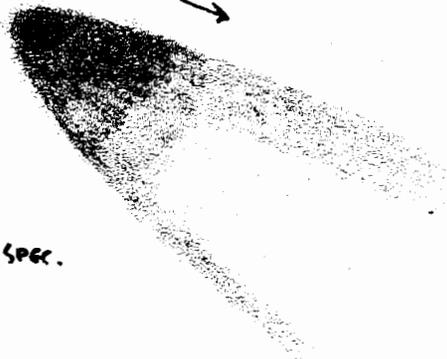
POS  $1950.0 2^h 30^m 15'' + 59^\circ$  7X50's.

15 CM. SPEC. x24 x48 x72 x144.

seeing generally good. then cloud at  
times.

Coma 5' diameter, broad fanlike  
tail 10' long at  $40^\circ$  perhaps traced  
to 25' with vague structure? the  
PA of the tail steadily decreasing.  
strong lucid nucleus ~~8-9 m.~~ 8-9 m.  
occasionally stellar

10°



15cm. SPEC.  
x48



7x50 BINO.

15CM-SPECULUM

7x50 BINOCULAR

ACKNOWLED 19 MAY 1974

8 POTTERGATE

HELMSLEY

YORK

YO6 5BY.

COMET BRADFIELD 1974 b

APRIL 14 · 89.

P. 02<sup>h</sup> 30<sup>m</sup> +60° 04'

7.5

M =  $\frac{1}{2}$  (1)A(1)C. A at. 02<sup>h</sup> 33<sup>m</sup> 30<sup>s</sup> +59° 52'

15cm. SPEC. x24 B<sup>7.5</sup> at. 02<sup>h</sup> 29<sup>m</sup> 20<sup>s</sup> +59° 47'

15cm. SPEC. x24 x48 x72 x96 x144

Coma 4'-5' diameter fanlike tail  
10-12' long at 30° nucleus unlettered  
and ~~is~~ fainter 9-10m. Note that  
the mag est. was made when the  
comet had moved away from the  
adjacent star. the inner coma  
round nucleus seem elongated in the  
plane of the tail

H.M. Sturdy



+  
x48  
x72  
21-10<sup>m</sup>



x144  
21-40<sup>m</sup>

In the highest power used the fanlike aspect of the tail was lost, the edges being prolongations of the coma and of the same width.

15 CM. SPEC.

ACKNOWLED 19 MAY 1974

8 POTTERDATE  
HELMSLEY  
YORK  
Y00 5BY.

COMET BRADFIELD 1974b

APRIL 26.7.02

02H 36<sup>m</sup> +75° 15'

7.5 A at 02H 33<sup>m</sup> +75° 18'

7.5 B at 02H ~~34<sup>m</sup>~~ 30<sup>m</sup> +75° 10'

M = A(2) B(1)  $\text{W}$  x48. 7.6?

Brief obs. in poor ~~to~~ conditions  
Coma 4' diam, short stubby fanlike  
tail 4-5' long, pa about 310°? I think  
no time for good obs., clouds came over.

Faint central condensation.

NOTE the comets position is given by  
mistake for AP. 26.9 when the comet was  
first seen briefly.

11.00 21-40

15 CM. SPECULUM.

8 POTTERGATE  
HELMSLEY  
YORK  
YO6 5BY

ACKNOWL'D 19 MAY 1974

COMET BRADFIELD  
1974 b.

1974 MAY 10.93 U.T.

M = A (1)  $\text{\textcircled{H}}$  (2) B x24. 9.1

A at 03<sup>H</sup> 07<sup>M</sup> + 87° 13' 9.0

B at 03<sup>H</sup> 10<sup>M</sup> + 87° 02' 9.3

$\text{\textcircled{H}}$  = 03<sup>H</sup> 15<sup>M</sup> + 87° 07'

Bright central condensation perhaps 1' diameter, at times faint stellar nucleus in x48, not confirmed in higher power x96, x144. Coma 5' diameter very diffuse, faint tail same width as coma fanning out slightly 10' long

MAY 11.01 M = A (1)  $\text{\textcircled{H}}$  (1) B. x24.

x192 applied but central cond. remained diffuse and displaced in coma towards the sun. Seeing good both times

15 CM. SPECULUM.

8 POTTERGATE  
HELMSLEY  
YORK  
YO6 5BY

ACKNOWL'D 19 MAY 1974

COMET BRADFIELD.  
1974 b

MAY 11.95 U.T.

$\text{\textcircled{H}}$  = 03<sup>H</sup> 22<sup>M</sup> + 87° 52'

M = A (3) B (1)  $\text{\textcircled{H}}$  x24. 9.1

SEEING. GOOD.

A at 03<sup>H</sup> 22' + 88° 22' 8.7

B at 03<sup>H</sup> 35' + 88° 12.5 9.0

Coma 4' diameter, central cond. 10m. small and hazy, suggestion of 13m. nucleus in lower powers. not confirmed higher powers. tail 8' long from cent. cond. in PA 15°



COMET BRADFIELD 1974D.



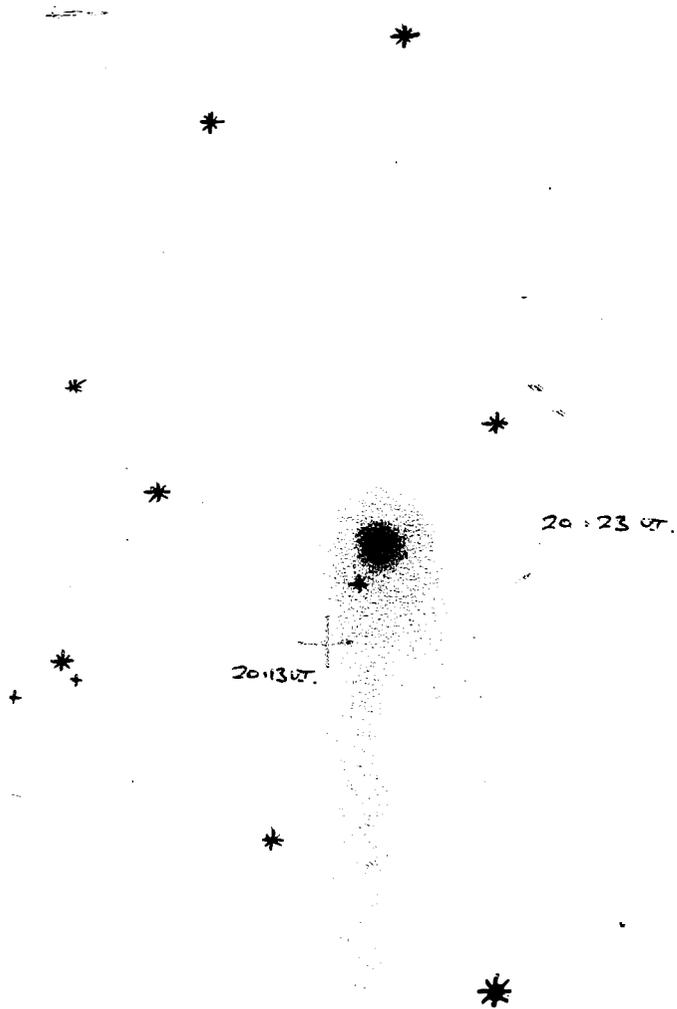
MAX 10.93 X46 G X144.



*Handwritten scribble*

*Handwritten text at the bottom right corner, partially obscured.*

COMET BRADFELD 1974b.



9<sup>th</sup> APRIL 1974  
254mm Refl x48  
20.23 UT.

P. S. Stohr

7 Eastlake Rd.,  
Carterwell,  
London SE5 9QJ.

1976 April 28

Dear Mr. Milbourn,

Thank you for your letter + the comet circulars. Please find enclosed -

- (1) All my useful observations of KBM 1975h with copies of all my telescopic drawings of it + a couple of photos.
- (2) Summary, drawings, + photos of Bradfield 1974b - I'm not sure whether you've already had a report of my observations from CUAS, as you did with my Kohoutek ones.
- (3) All I have on Heck-Sause - some time ago but it seems to add to what you have reported.
- (4) Most recent obs'ns of West - including this morning!

Also a SAE for the next circular.

Best wishes.

Yours,

John Rogers.

OBSERVATION OF COMET BRADFIELD  
1974, MAY, 12.95

MAGNITUDE ESTIMATES: (NUCLEUS): ACKNOWLED 27 MAY 1974  
(COMA): 9.5  
Coma mag entered

DESCRIPTION: CONDENSED NUCLEUS 0.4 BRIGHTER THAN  
COMA. SLIGHT TRACE OF A TAIL AT P.A. 200° (APPROX)  
TAIL VERY SHORT: LENGTH APPROX. 40"  
COMA DIA. APPROX. 90"

CONDITIONS: EXTREMELY CLEAR, ALCOR AND MIZAR READILY  
SEEN AT FIRST GLANCE. PATCHY CLOUD  
INTERFERING. SHOWERY.

INSTRUMENT AND X. f8 15cm SPEC X 96

OBSERVER J. LEWIS. HAVANT, HAMPSHIRE.

OBSERVATION OF COMET BRADFIELD 1974G ✓

1974, MAY, 13.95

MAGNITUDE ESTIMATES: (NUCLEUS): 9.5  
Coma mag. entered (COMA): 9.6  
ACKNOWLED 27 MAY 1974

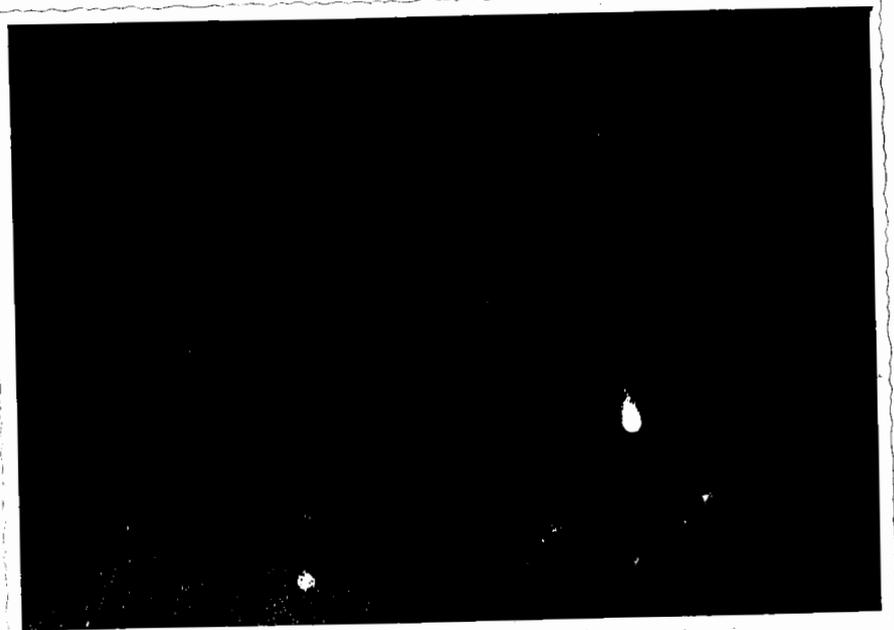
DESCRIPTION: DEFINATE NUCLEUS WITH DIFFUSE COMA  
COULD SEE NO TRACE OF A TAIL  
COMA DIA. APPROX. 90"

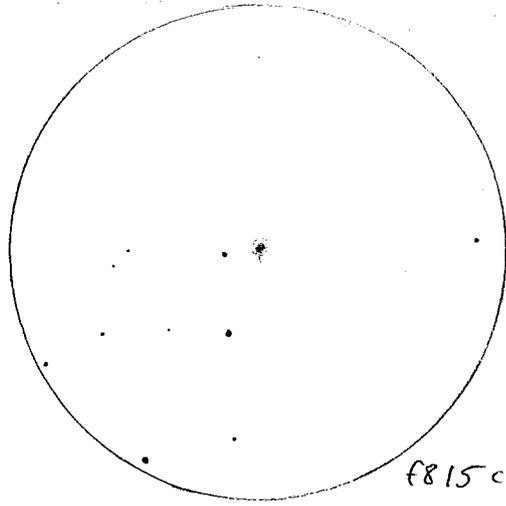
CONDITIONS: CLEAR, SOME PATCHY CLOUD AND A VERY  
SLIGHT HAZE. FAINTEST STAR.  
VISIBLE MAG 4.5. (NAKED EYE)

INSTRUMENT AND X. f8 15cm SPEC X 96

OBSERVER J. LEWIS

HAVANT, HAMPSHIRE.





f8 15 cm SPEC X 96

f8 15 cm SPEC X 96

Comet Bradfield 1974b  
 March 17, 22:00 UT with a  
 Carl Zeiss camera 51/250, f/8, 15  
 cm, 1/4.5, 1/200 shutter and  
 14 minute exposure. Photographed  
 by Brian Schmidt (Director of the  
 BOM) at the Observatorio de  
 La Silla - Cerro Parí, Chile.  
 This photo was the only one in  
 the series.