

INDEX

CENOZOIC, TERTIARY AND QUATERNARY	MEZOZOIC	CRETACEOUS	Palaeocene (marine) and Pliocene	Shelly soft sand and clay	
			Oligocene and Eocene	Sand and clay; heavy limestone beds; shell-beds and pebbles	
			Chalk	White limestone with soft and hard beds, flint and marl; all hard and non-fossiliferous in N. Ireland	
			Upper Greensand and Gault	Drift like-grey clay partly overlain by fine-grained green sand or sandstone	
			Lower Greensand and Speeton Series	Variable coarse sand and clay, with limestone	
			Woolden	Alternations of clay and fine-grained sandstone	
			Oolite	Upper	Mainly clay with limestone and sandstone
				Lower	Oolite and shelly limestone, sandstone and clay
			Liasite and Rhaetic	Clay and subordinate sandstone	
			Keuper Marl and Sandstone	Red and grey marl, sandstone and conglomerate	
UPPER PALAEOZOIC	TRIASSIC	PERMIAN	Bunter Sandstone	Coarse and fine-grained sandstone with some pebble beds	
			Pringle Marl and Pennine-Triassic Sandstone	Marl, sandstone, conglomerate, breccia and volcanic rock (partly Carboniferous)	
			Magnesian Limestone	Dolomite limestone and red marl	
			Coal Measures	Sandstone, shale, siltstone and coal	
			Millstone Grit Series	Massive grey sandstone, shale and coal	
			Culm Measures (15-17)	Grey limestone, shale, dolomite, sandstone and coal	
			Carboniferous Limestone Series	Conglomerate and sandstone; also, shale, sandstone and volcanic rock	
			Upper Old Red Sandstone	Sandstone, siltstone, conglomerate, shale, shale, limestone and volcanic rock	
			Middle Old Red Sandstone	Red and grey marl and sandstone; siltstone, grey, conglomerate; also, shale, sandstone and grey, volcanic rock	
			Lower Old Red Sandstone and Devonian	Shale, siltstone, sandstone and impure limestone	
LOWER PALAEOZOIC	DEVONIAN AND SILURIAN	ORDOVICIAN	Elfrician	Shale, siltstone, sandstone and impure limestone	
			Ordovician	Shale, shale, grit, chert and volcanic rock	
			Cambrian	Shale, shale, sandstone and quartzite; dolomite of N. W. Ireland (partly Ordovician)	
			Pre-Cambrian	Sandstone, grit, siltstone, shale, conglomerate, breccia; also, limestone and volcanic rock; shale, siltstone and grit	
			Devonian	Shale, siltstone, sandstone and impure limestone	
			Carboniferous	Shale, siltstone, sandstone and impure limestone	
			Permian	Shale, siltstone, sandstone and impure limestone	
			Triassic	Shale, siltstone, sandstone and impure limestone	
			Jurassic	Shale, siltstone, sandstone and impure limestone	
			Cretaceous	Shale, siltstone, sandstone and impure limestone	
METAMORPHIC ROCKS	METAMORPHIC ROCKS	METAMORPHIC ROCKS	Granite	Granite	
			Gneiss	Gneiss	
			Schist	Schist	
			Quartzite	Quartzite	
			Siltstone	Siltstone	
			Shale	Shale	
			Sandstone	Sandstone	
			Limestone	Limestone	
			Dolomite	Dolomite	
			Marble	Marble	
IGNEOUS ROCKS	IGNEOUS ROCKS	IGNEOUS ROCKS	Granite	Granite	
			Gneiss	Gneiss	
			Schist	Schist	
			Quartzite	Quartzite	
			Siltstone	Siltstone	
			Shale	Shale	
			Sandstone	Sandstone	
			Limestone	Limestone	
			Dolomite	Dolomite	
			Marble	Marble	

Boulder clay and other superficial deposits are omitted. Some major faults are shown.

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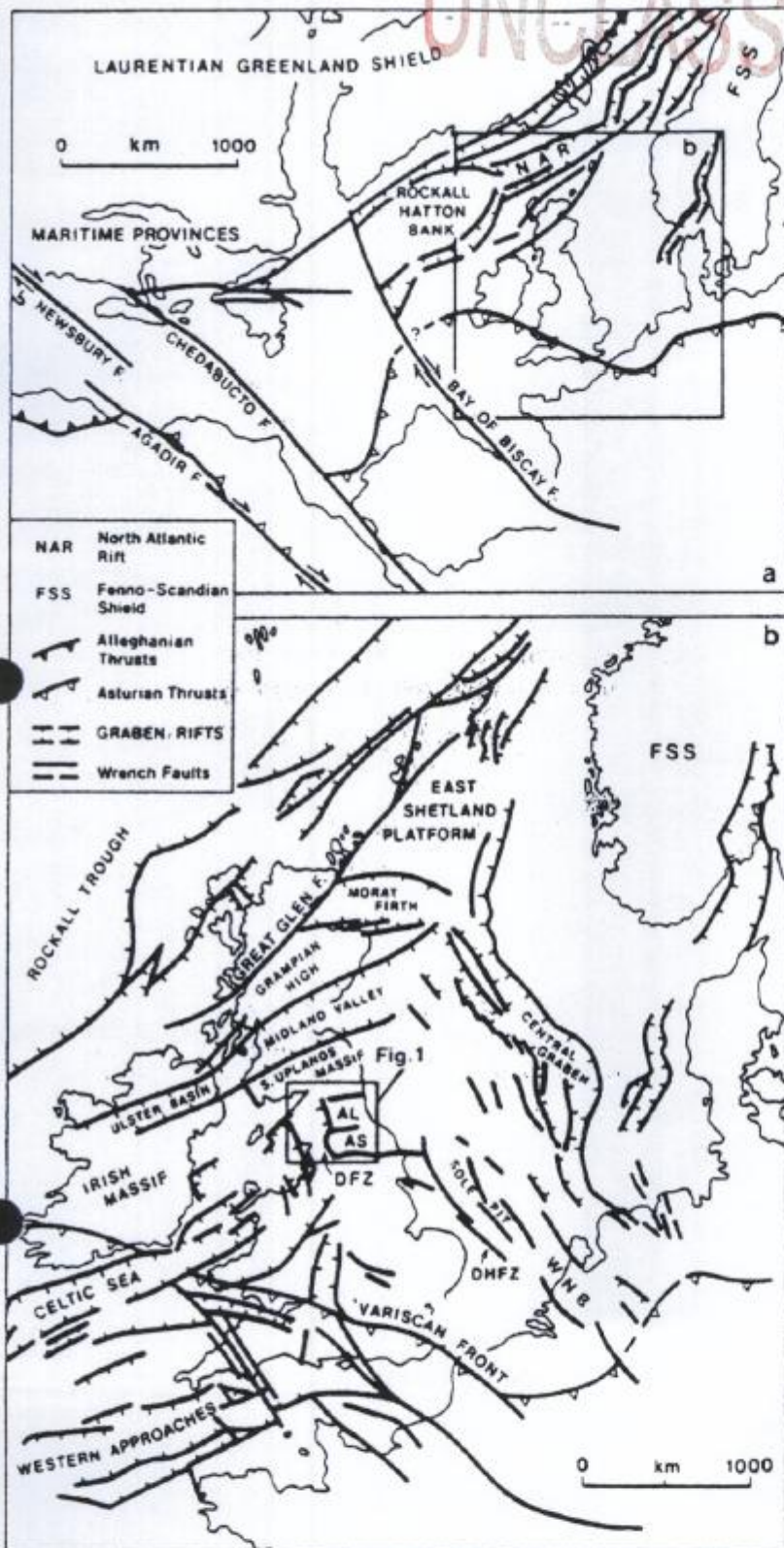


FIGURE 9

KEY

AL- ALSTON BLOCK

AS -ASTRIGG BLOCK

DFZ- DENT FAULT ZONE

DHFZ - DOWSING HEWITT

FAULT ZONE

WNB -WEST
NETHERLANDS BASIN

FRACTURES

ILIGHTS

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DIS SCIENTIFIC & TECHNICAL MEMORANDUM 55/2/00

WORKING PAPER NO. 11

COLLECTED IMAGERY AND CLASSIFICATION OF UAP SHAPES



January 26, 2000

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COLLECTED IMAGERY AND CLASSIFICATION OF UAP SHAPES

CONTENTS

1. The material in this section has been collected from a number of sources - news reports, photography and video records. The sources are not limited to UK reports, as the intention is to use the material as a reference/correlation catalogue and to hopefully use the material as a filter to separate the explainable from the inexplicable, if possible. In some cases - particularly since the advent of personal video cameras - the original material is in colour. Shape and lights (colours) are invariably the trigger which attracts the eye and results in incident reports. Shapes have been generically categorised as follows.

- | | | |
|--|--|------------------|
| - SPHERES | (Includes 'BOLS' and multiple spherical lights) | Figures 1 - 7 |
| - DISCS | (Only circular in plan - and thus, on frequent occasions from different aspects, the same events are described by other witnesses as 'balls' or spheres) | Figures 8 to 28. |
| - CIGAR | These have a larger mid-chord than discs and tend towards 'long airship' shapes, with much less 'sharp' ends than discs | Figure 29 |
| - STAR/POINT | Seen as balls of light, with the star effect due to atmospheric optics | - |
| - OVAL | Described as a variant of 'discs', but with a wider mid-chord and without the elongation of 'cigars' | |
| - TRIANGLE/PYRAMID/CONE/
RECTANGLE/CYLINDER | The outline shape is formed, not by a solid object, although at times it appears so - see Working Papers) but by three or more coloured lights at the extremities, forming the 'corners'. A cylinder is often described which is, in fact, formed by a row of lights (balls). A vertically oriented cylinder is sometimes seen - see Working Papers No 23 and 24 | Figures 30 to 35 |

- RECTANGLE/DIAMOND

As for Figures 30 - 35, but where the viewing angle changes the spacing to form diamond/rhomboid patterns

As for Figures 30-35

- BOOMERANG/ARC

Figure 36

As can be seen (Vol. 1 Tables 1 and 2) certain combinations of shapes and lights can be attributed to definite causes. Shapes and lights are the **initial** key to filtering the known from the inexplicable. Little is gained in analysis of purely descriptive unknown shapes and lights reports unless further information, such as imagery, correlation from multiple witnesses, or data from which to obtain angles, sizes, sounds, smells, or velocities is available.

For the purposes of the database it was necessary to identify the whole range of shapes frequently reported. It is of course inevitable that these are due to a whole range of different underlying phenomena, described in the other working papers in this Volume.

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SPHERES

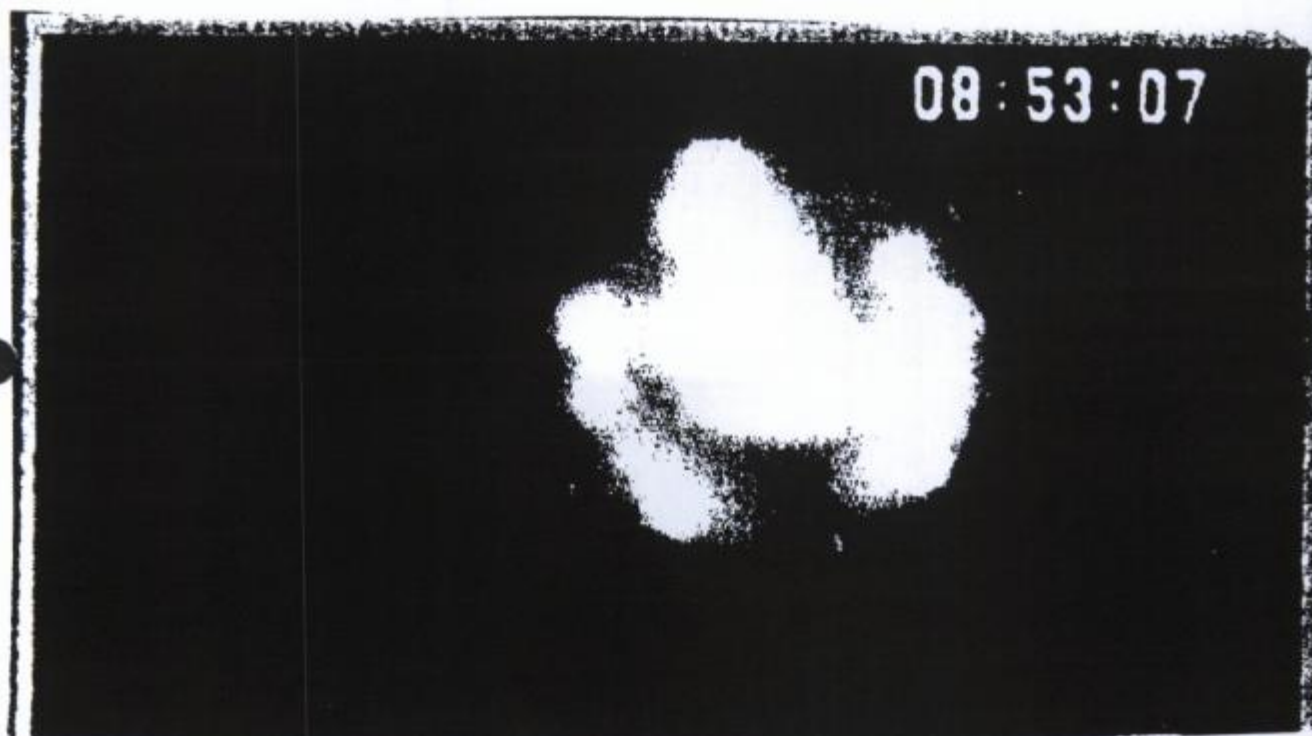


FIGURE 1: SPHERES

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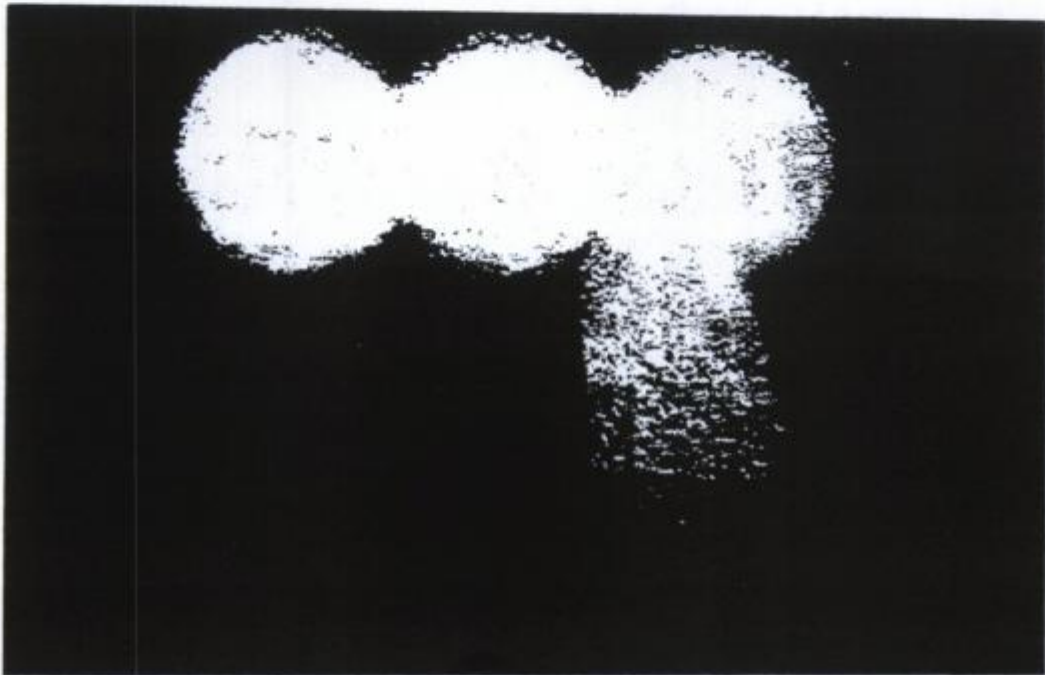


FIGURE 2: KENT UK, SEPTEMBER 17-20 1993

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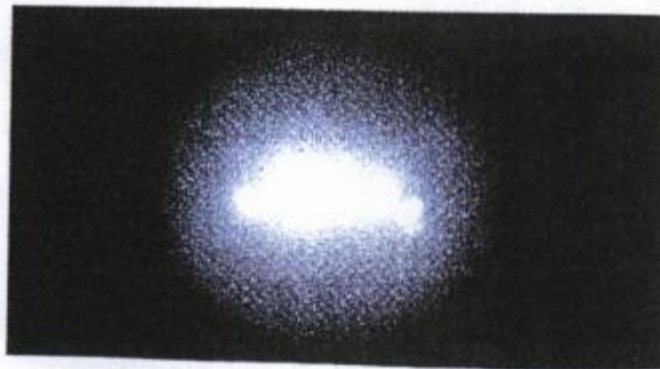


FIGURE 3: MEXICO POLICE PHOTOGRAPH ^[1] (JULY 1991)

Note [1] Four police officers at range ~50 yards. Some lens distortion.

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FIGURE 4: LOWESTOFT 1997

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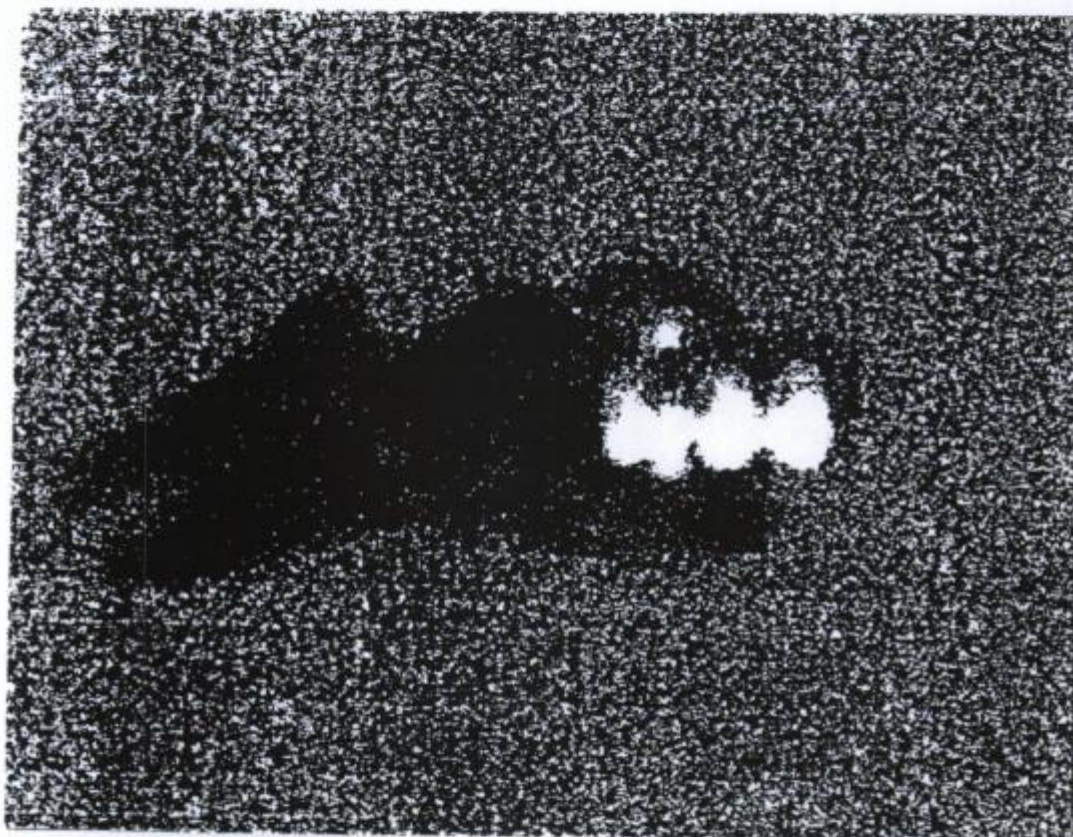


FIGURE 5: GULF OF MEXICO (DARK SHAPE IS THE ACCOMPANYING F15 AIRCRAFT)

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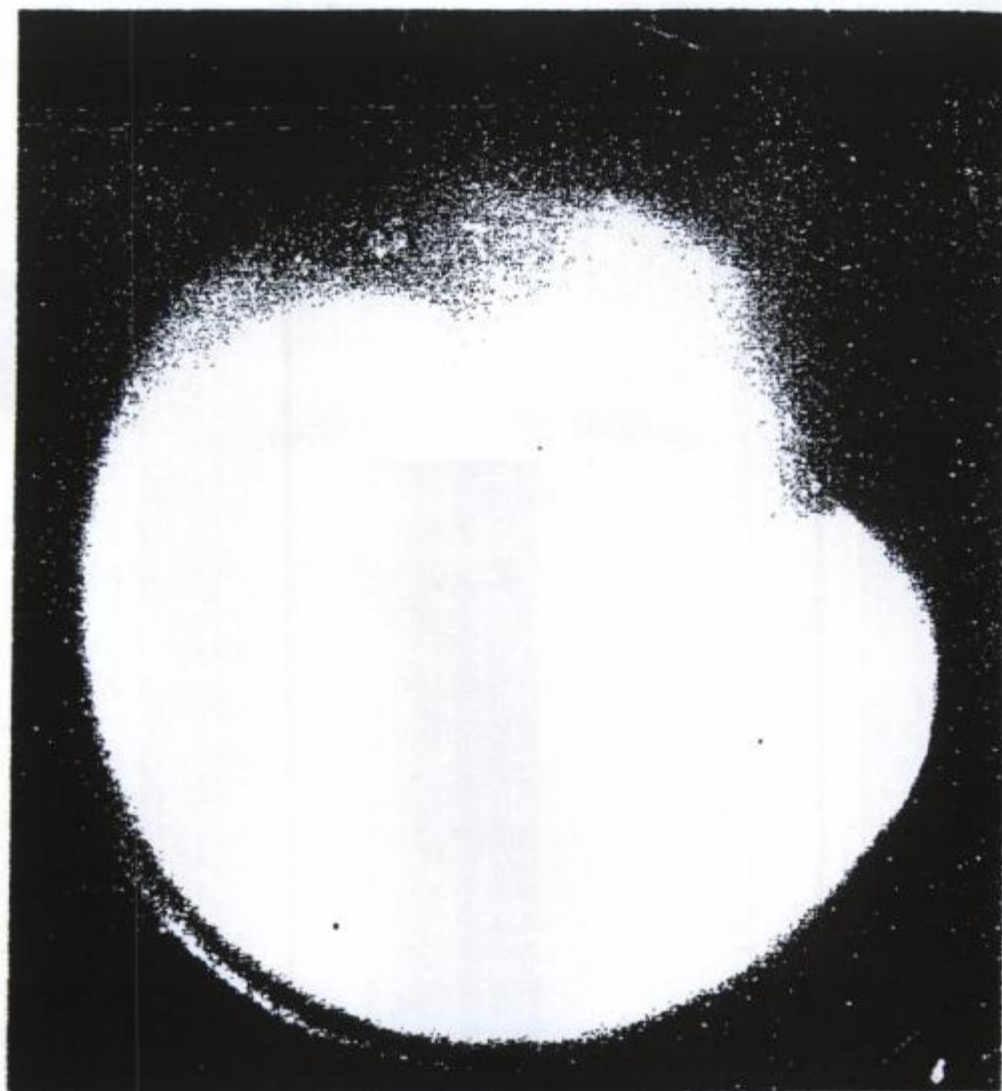


FIGURE 6: FRANCE 1974

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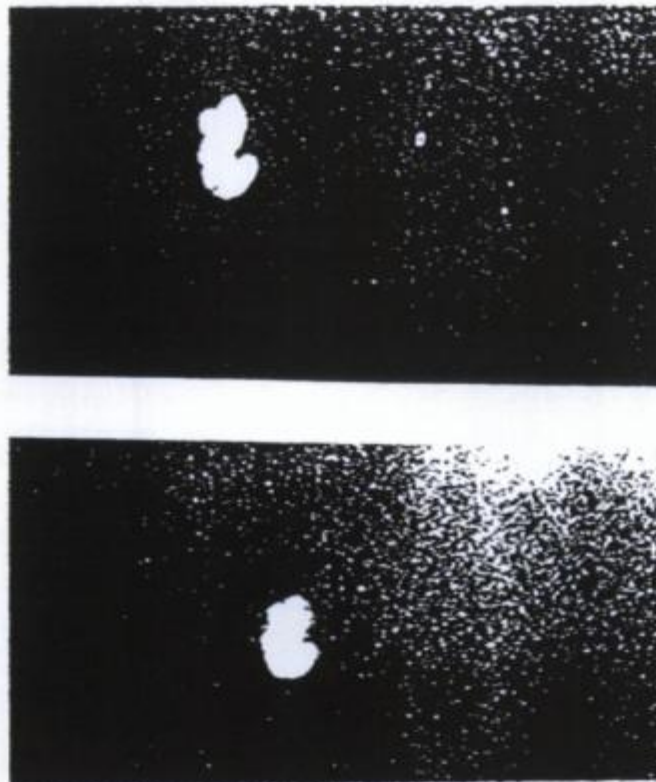


FIGURE 7: AIR-TO-AIR UAP

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DISCS



FIGURE 8: LAKE CONISTON ENGLAND 1954



FIGURE 9: JAPAN 1958

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FIGURE 9: AUSTRALIA 1972

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FIGURE 10: AUSTRIA 1971

FIGURE 11: OREGON USA 1950

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