

**Finance and Corporate Services**  
Information Management

5 February 2014  
FOIA reference: F0001793

Dear XXXX

I am writing in respect of your recent request of 20 January 2014, for the release of information held by the Civil Aviation Authority (CAA).

Your request:

*“Thank you for the details provided regarding objects falling from aircraft provided by the Mandatory Occurrence Reporting scheme (FOIA ref F0001783 from Rick Chatfield). Unfortunately this does not include reports of ice probably falling from aircraft. These incidents would, I think, have been reported to the CAA Safety Division under a different scheme”.*

Our response:

In assessing your request in line with the provisions of the Freedom of Information Act 2000 (FOIA), we are pleased to be able to provide the information below.

Incident reports are provided to the CAA under the terms of the Mandatory Occurrence Reporting (MOR) scheme, as described under Article 226 of the Air Navigation Order 2009 (ANO). Each report made is reviewed and, where appropriate, further investigation carried out and action taken.

We have carried out a search of the UK CAA MOR database for any report which involves reports of falling ice and provided an excel summary of those events from 1 January 2012 to all processed reports as at 27 January 2014. We have however, removed identifying information from these reports as this information is exempt from disclosure under section 44 (1) (a) of the FOIA.

Section 44 (1) (a) of the FOIA provides that information is exempt information if its disclosure is prohibited by, or under, any enactment. Under Section 23 of the Civil Aviation Act 1982, information which relates to a particular person (which includes a company or organisation) and has been supplied to the CAA pursuant to an ANO is prohibited from disclosure (a copy of this exemption can be found enclosed).

These reports were not included in our response to your previous request as the CAA cannot confirm whether the ice fell from an Aircraft.

**Civil Aviation Authority**

Aviation House GW Gatwick Airport South Crawley West Sussex England RH6 0YR [www.caa.co.uk](http://www.caa.co.uk)  
Telephone 01293 768512 [rick.chatfield@caa.co.uk](mailto:rick.chatfield@caa.co.uk)

For more information about the Mandatory Occurrence Reporting scheme, please refer to CAP382 which can be found at [www.caa.co.uk/cap382](http://www.caa.co.uk/cap382).

If you are not satisfied with how we have dealt with your request in the first instance you should approach the CAA in writing at:-

Mark Stevens  
External Response Manager  
Civil Aviation Authority  
Aviation House  
Gatwick Airport South  
West Sussex  
RH6 0YR

[mark.stevens@caa.co.uk](mailto:mark.stevens@caa.co.uk)

The CAA has a formal internal review process for dealing with appeals or complaints in connection with Freedom of Information requests. The key steps in this process are set in the attachment.

Should you remain dissatisfied with the outcome you have a right under Section 50 of the Freedom of Information Act to appeal against the decision by contacting the Information Commissioner at:-

Information Commissioner's Office  
FOI/EIR Complaints Resolution  
Wycliffe House  
Water Lane  
Wilmslow  
Cheshire  
SK9 5AF

[www.ico.gov.uk/complaints.aspx](http://www.ico.gov.uk/complaints.aspx)

Should you wish to make further Freedom of Information requests, please use the e-form at <http://www.caa.co.uk/foi>.

Yours sincerely

Rick Chatfield  
Information Rights and Enquiries Officer

## **CAA INTERNAL REVIEW & COMPLAINTS PROCEDURE**

- The original case to which the appeal or complaint relates is identified and the case file is made available;
- The appeal or complaint is allocated to an Appeal Manager, the appeal is acknowledged and the details of the Appeal Manager are provided to the applicant;
- The Appeal Manager reviews the case to understand the nature of the appeal or complaint, reviews the actions and decisions taken in connection with the original case and takes account of any new information that may have been received. This will typically require contact with those persons involved in the original case and consultation with the CAA Legal Department;
- The Appeal Manager concludes the review and, after consultation with those involved with the case, and with the CAA Legal Department, agrees on the course of action to be taken;
- The Appeal Manager prepares the necessary response and collates any information to be provided to the applicant;
- The response and any necessary information is sent to the applicant, together with information about further rights of appeal to the Information Commissioners Office, including full contact details.

## Flat

<b>File</b>	<b>Date</b>	<b>Location</b>	<b>Aircraft Category</b>
201201865	17/02/2012	Godley (Cheshire)	Unknown
201200011	02/01/2012	Mortlake	Unknown
201201195	05/02/2012	Shropshire	Unknown
201201972	24/02/2012	Harrow	Unknown
201203059	25/03/2012	Watford	Unknown
201204191	16/04/2012	Tyne & Wear, Newcastle	Unknown
201204462	16/04/2012	East Sheen, London	Unknown
201205296	18/05/2012	Orpington (Kent)	Unknown
201206000	01/06/2012	Hawkhurst	Unknown
201206200	05/06/2012	Dorchester (Dorset)	Unknown

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201206237	07/06/2012	Wrexham (Clwyd)	Unknown
201208599	11/07/2012	Chester	Unknown
201208897	29/07/2012	Bristol	Unknown
201209210	02/07/2012	Worcester Park (Surrey)	Unknown
201209907	21/08/2012	Hulland Ward (Derbyshire)	Unknown
201210966	06/09/2012	Huddersfield	Unknown
201211213	14/09/2012	Berkshire	Unknown
201214990	12/12/2012	Bovingdon, Hemel Hempstead	Unknown
201300998	26/01/2013	Stratford	Unknown

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201301155	01/02/2013	Waterlooville	Unknown
201301215	23/01/2013	Hitching Hill	Unknown
201301749	09/02/2013	East Sheen	Unknown
201301752	15/02/2013	Eel Brook Common	Unknown
201302010	24/02/2013	Livingston	Unknown
201302031	25/02/2013	Downend, Bristol	Unknown
201302060	25/02/2013	Belper, Derbyshire	Unknown
201302100	23/02/2013	Leeds	Unknown

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201302270	02/03/2013	Pattingham, Wolverhampton, Staffs	Unknown
201302662	13/03/2013	Westcott, Dorking, Surrey	Unknown
201303261	28/03/2013	Barnsley	Unknown
201304231	22/04/2013	Stonyhills Farm, Great Warley, Brentwood	Unknown
201304971	02/05/2013	Albion Park, Loughton	Unknown
201305016	07/05/2013	Weybridge	Unknown
201307232	10/04/2013	Troon	Unknown

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201307948	04/07/2013	En route	Airplane
201308986	01/07/2013	Hatfield	Unknown
201309384	28/07/2013	LSGG (GVA): Geneve/Cointrin	Airplane
201310793	22/08/2013	Seaford	Unknown
201311782	07/09/2013	Woking	Unknown

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201312826	07/10/2013	Caerphilly	Unknown
201312993	27/09/2013	London	Unknown
201313294	17/10/2013	Effingham	Unknown
201314599	12/11/2013	Golders Green	Unknown
201315376	25/11/2013	Richmond	Unknown
201315615	19/11/2013	A414 Hertford	Unknown
201400458	03/01/2014	Hornchurch	Unknown

## Flat

### Headline

Icefall: Impact heard by numerous residents in the street. Serious damage to parked and unoccupied car subsequently discovered.

Falling Object: Icefall. Lump of 'football' sized, yellowstained ice, struck and damaged a garden fence.

Icefall: Damage to roof of house.

Icefall. Private car damaged.

Icefall. Large block of ice fell into a private garden.

Icefall: On residential property.

Icefall - Ice found in garden approximately football sized. Damage to roof of house.

Icefall - smashed onto road.

Ice size of football landed in driveway shattering a window.

Icefall - Garage roof damaged. Hole measuring roughly 18in.

### Narrative

CAA Closure: Two a/c identified as being in the vicinity, belonging to different operators, both of which have checked their a/c's technical records and confirmed that no faults were apparent that could have contributed to this incident.

CAA Closure: Eight a/c identified as being in the vicinity, belonging to seven different operators, all of which have checked their a/c's technical records and confirmed that no faults were apparent that could have contributed to this incident. Reporter heard a crash and found lumps of ice outside. Four roof tiles smashed and hole in roof of house.

CAA Closure: No further CAA action.

CAA Closure: No further CAA action.

A large section of ice fell onto the roof of property and shattered on the driveway. CAA Closure: One a/c identified as being in the vicinity. The operator has checked the a/c's technical records and confirmed that no faults were apparent that could have contributed to this incident.

CAA Closure: Ten a/c identified as being in the vicinity, belonging to seven different operators, all of which have checked their a/c's technical records and confirmed that no faults were apparent that could have contributed to this incident. One piece measuring approximately 1ft after crashing and other pebble sized pieces scattered around. Witnessed by several people in cars.

CAA Closure: Six a/c identified as being in the vicinity, belonging to four different operators, all of which have checked their a/c's technical records and confirmed that no faults were apparent that could have contributed to this incident.

CAA Closure: Two a/c identified as being in the vicinity, belonging to different operators, both of which have checked their a/c's technical records and confirmed that no faults were apparent that could have contributed to this incident.

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Icefall: Lump of football sized ice fell on roof of house and broke several roof tiles and an exterior extractor fitting.

CAA Closure: Three a/c identified as being in the vicinity, belonging to different operators, one of which has checked their a/c's technical records and confirmed that no faults were apparent that could have contributed to this incident. The remaining operators have been written to, with no responses forthcoming.

Ice fall: Lump of ice approximately 3in diameter fell into front garden.

CAA Closure: Four a/c identified as being in the vicinity, belonging to three different operators, all of which have checked their a/c's technical records and confirmed that no faults were apparent that could have contributed to this incident.

Icefall: Discovered in private residence garden.  
Roof and ceiling damaged by falling ice.

CAA Closure: One a/c identified in the vicinity. Operator confirmed that there was a fault with the drain fill valve that was discovered on 24 Aug 2012 following reports of a water leak around the service panel, after an initial inspection on 23 Aug 2012 had found no faults. The operator stated that corrective action has been carried out and confirmed that the defect has been rectified. Whilst one a/c has been identified as having had a defect that could have resulted in an icefall, there is no conclusive evidence that the icefall definitely came from this a/c as the fault was discovered and rectified three days after the reported event (and no faults were evident when the a/c was checked two days after the reported event).

Icefall: A house was struck by single large piece of ice, causing damage to a roof ridge tile. The ice broke on impact into approximately 9-10 tennis ball sized pieces.  
Icefall: Loud bang heard on the roof of house and fragments of ice found. No damage caused.  
Icefall on private garden. No damage or injuries caused.

The ice impacted a lawn and shattered into numerous pieces.

Ice fall: Ice block went through roof tiles and felting of house

CAA Closure: Six a/c identified as being in the vicinity, belonging to two different operators, both of which have checked their a/c's technical records and confirmed that no faults were apparent that could have contributed to this incident.

Lump of ice crashed through the roof and into the first floor bathroom.

CAA Closure: Eight a/c identified as being in the vicinity, belonging to different operators, six of which have checked their a/c's technical records and confirmed that no faults were apparent that could have contributed to this incident. The remaining operators have been written to, with no responses forthcoming.

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Icefall: Piece of ice approximately the size of a bowling ball crashed through the roof of the conservatory.

Icefall: Piece of ice hit car whilst being driven, approx size 12inch x 6inch x 6inch. No damage to car or occupants.

Icefall: Large block of ice fell onto house, damaged the tiles and made a hole in the roof.

Icefall: Large block of clear odourless ice landed on school playing field. Children present on field. One received minor injuries.

Icefall: Damage to roof due to a large piece of falling ice.

Icefall: Ice fell through trees and impacted the ground causing a 4-6in indentation.

Icefall: Large block of ice fell onto roof damaging roof tiles.

Icefall: Substantial damage found to commercial garage roof when opening up after the weekend. A small amount of clear ice remained on the ground.

CAA Closure: The recorded radar data was reviewed and was unable to identify any a/c which would have been in the air for sufficient time to develop ice on the exterior of the a/c. The data was viewed between the reported times, 09:41 to 09:51 UTC, covering an area of 10nm centred on the reporter's location.

CAA Closure: Twelve a/c identified as being in the vicinity, belonging to nine different operators, seven of which have checked their a/c's technical records and confirmed that no faults were apparent that could have contributed to this incident. The remaining operators have been written to, with no responses forthcoming.

CAA Closure: Fifteen a/c identified as being in the vicinity, belonging to eight different operators, seven of which have checked their a/c's technical records and confirmed that no faults were apparent that could have contributed to this incident. The remaining operator has been written to, with no response forthcoming.

CAA Closure: Five a/c identified as being in the vicinity, belonging to different operators, four of which have checked their a/c's technical records and confirmed that no faults were apparent that could have contributed to this incident. The remaining operator has been written to, with no response forthcoming.

CAA Closure: Three aircraft identified as being in the vicinity, belonging to different operators, all of which have checked their aircraft's technical records and confirmed that no faults were apparent that could have contributed to this incident.

Described as the same size as a child's football.

CAA Closure: One a/c identified in the vicinity. Operator confirmed that there was a leak from the toilet waste system. The operator stated that corrective action had been carried out and confirmed that the defect has been rectified. Whilst one a/c has been identified as having had a defect that could have resulted in an icefall, there is no conclusive evidence that the icefall definitely came from this a/c.

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- Icefall: Large hole in roof of caravan. Damage to bathroom area and large hole in floor. No injuries caused.
- CAA Closure: One a/c identified as being in the vicinity. The operator has checked the a/c's technical records and confirmed that no faults were apparent that could have contributed to this incident.
- Icefall: Ice fell through perspex roof of conservatory. Brown (rust) and white in colour with a mild odour of cheese. No injuries.
- CAA Closure: Ten a/c identified as being in the vicinity, belonging to eight different operators, six of which have checked their a/c's technical records and confirmed that no faults were apparent that could have contributed to this incident. The remaining operators have been written to, with no responses forthcoming.
- Icefall: Dented the top of car door. Shattered into many pieces. Light brown colour (smelt of toilet waste).
- CAA Closure: Three a/c identified as being in the vicinity, belonging to different operators, all of which have checked their a/c's technical records and confirmed that no faults were apparent that could have contributed to this incident.
- Icefall: Large piece of ice weighing approx 10kg fell into a field leaving a hole approx 175mm deep. White in colour with no smell. No damage reported.
- Icefall: Large piece of ice approx 1-2ft in diameter fell into garden damaging an ornamental tree.
- CAA Closure: Three aircraft identified as being in the vicinity, belonging to different operators, two of which have checked their aircraft's technical records and confirmed that no faults were apparent that could have contributed to this incident. The remaining operator has been written to, with no response forthcoming.
- Icefall: Clear block of ice fell on parked car damaging windscreen and surrounding panels on another car.
- Piece of ice the size of a football fell onto a car parked in a car park.
- CAA Closure: Ten aircraft identified as being in the vicinity, belonging to five different operators, all of which have checked their aircraft's technical records and confirmed that no faults were apparent that could have contributed to this incident.
- Icefall: Ice fall onto porch roof causing a hole which resulted in leak. Dimensions of ice 5in x 4in round, orange at one end and white at the other.

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airframe by both pilots and were also reported by cabin crew and passengers. All indications were normal. Cabin problems with loss of potable water and previous evidence of a water leak during turnaround led the flight crew to suspect ice shedding from drain and impacting the aircraft. Maintrol were consulted for advice and guidance and the flight was continued with caution. Engineers inspection on arrival found damage to the airframe.

CAA Closure: The aircraft arrived at destination with no defects. However, the Maintrol diary referred to a water leak from below L2 toilet drain hole shortly after arrival. The toilets were checked and drain valves closed and it was noted that there was leaking for approx 20mins with no tank level decrease and suspected over full. The aircraft departed and approx 40mins into the return flight an HF patch message from the crew recorded that 'half water contents lost'. A further 40mins into the flight another crew message reported 'L Rad Alt inop, spurious GPWS warnings, C/B pulled' and in addition that the 'water contents were at zero'. The Captain reported 'aerodynamic thumping' which he suspected as ice from the drain hitting the wing leading edges. During the same transmission the Captain

Ice shedding with airframe impact and damage.

CAA Closure: Three aircraft identified as being in the vicinity, belonging to different operators, all of which have checked their aircraft's technical records and confirmed that no faults were apparent that could have contributed to this incident.

Icefall: Large chunk of ice landed in playing field (approx 20-30cm).

P2 noted erratic airspeed fluctuations on his PFD. On occasions the IAS display went blank. As soon as control was handed over both AP and ATHR failed and could not be re-engaged. The aircraft was in alternate law. QRH unreliable airspeed was actioned. P2 ASI appeared to return to normal however the P2 air data was switched to ADR 3 and ADR 2 switched off in accordance with the checklist as a precaution. Due to weather at destination a decision was made to divert under a PAN. During the attempted autopilot re-engagement it was noted that AP1 would not re-engage at all and AP2 would only latch on for half a second before disconnecting. During the approach large chunks of ice were observed detaching from the radome. No ice observed on the probe.

PAN declared and aircraft diverted due to P1 and P2 airspeed disagree.

Icefall: Suspected icefall or falling object caused impact damage to roof of house.

A loud bang on the roof was heard and on inspection, a 20cm hole was found where an object had gone through the tiles and through the roofing felt inside.

Icefall: White block of ice fell to the floor in front of pedestrian and child. No damage caused.

Approx size 30x30x30cm.

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Icefall: A lump of brown, coffee scented ice, impacted and caused damage to step of patio door.

Icefall: Lump of ice found in garden measuring 15in x 15in. No damage or injuries caused.

Icefall: Large block of ice impacted house and caused damage to roof and tiles.

Icefall Report: Ice fell through roof of house and through the ceiling of child's bedroom. Damage to roof and bedroom ceiling. No injuries.

CAA Closure: Five aircraft identified as being in the vicinity, belonging to different operators, all of which have checked their aircraft's technical records and confirmed that no faults were apparent that could have contributed to this incident.

Icefall: A large piece of ice approx 30x40x30cm fell from the sky and smashed onto the road. No damage or injuries were caused.

Icefall: Car windscreen damaged by falling ice.

Contained some brown debris.

Icefall: Large football sized piece of ice impacted and damaged roof and interior ceiling.