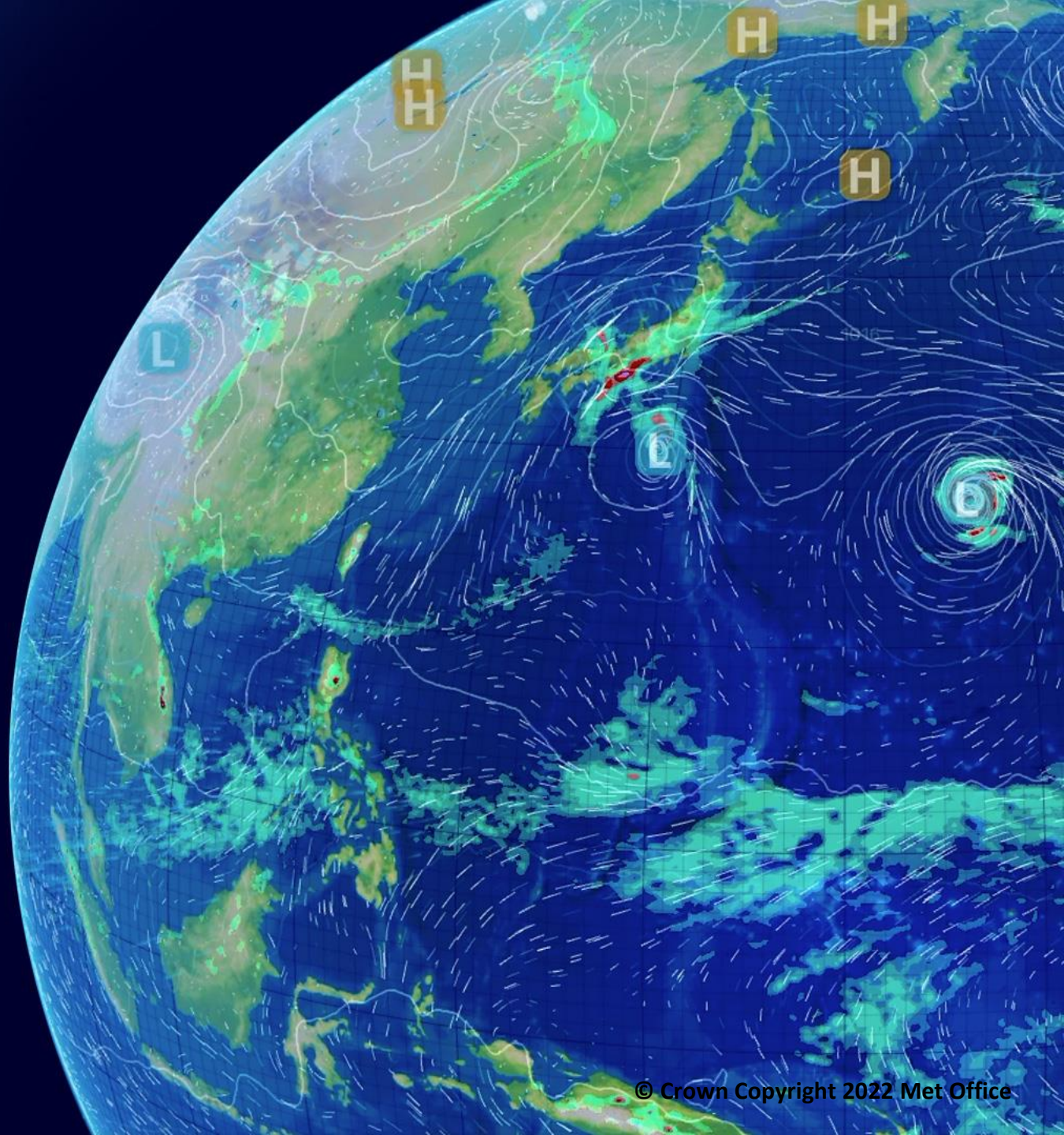




# Winter 2022/23 LVP Forecast Verification: LL, KK, GW, SS, GD & CC

*Frances Lack*  
*NATS Met Office Operations Manager*



- Issued twice daily
  - 0325 L
  - 1710 UTC
- Consistent with TAFs, warnings forecast valid at time of issue
- Amendable for LTMA airfields
- Analysis of the period 0400-1800 UTC
- Skilful tolerances:

N	<5%
L	5-29%
ML	30-39%
MH	40-59%
H	60-89%
VH	>90%

With contribution for  
EIDW from Met Eireann

**Key UK and Ireland Aerodromes 24hr LVP Risk (AM issue)**  
0400Z on 22 February 2023 to 0400Z on 23 February 2023  
(All times in UTC)

LVP risk at elevated airfields due to lowering cloud. Likely clearing by mid morning, but a risk returns overnight into Thursday.  
LC risk : 400FT cloud base for both periods.

Aerodrome	22 February 2023																				23 February 2023			
	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	00-01	01-02	02-03	03-04
LL*	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
LL (VIS2)*	N	L	L	L	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	L
KK**	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
SS*	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
GW^	ML	ML	ML	ML	ML	L	N	N	N	N	N	N	N	N	N	N	N	N	N	L	L	L	L	L
LC**	ML	ML	ML	ML	ML	L	N	N	N	N	N	N	N	N	N	N	N	N	N	L	L	L	L	L
LF*	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
BB***	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
NX^^	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
GD^^^	H	H	MH	MH	MH	L	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	L	L	L
CC***	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
PH***	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
PF***	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
EIDW^	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

*	LVP threshold - visibility <600m		^	LVP threshold - visibility <800m and/or cloud ceiling <200FT
**	LVP threshold - visibility <600m and/or cloud ceiling <200FT		^^	LVP threshold - visibility ≤800m and/or cloud ceiling <300FT
***	LVP threshold - visibility <600m and/or cloud ceiling <300FT		^^^	LVP threshold - visibility ≤1200m and/or cloud ceiling ≤200FT
+	LVP threshold - visibility <1500m and/or cloud ceiling <300FT		**	LVP threshold - visibility <1600m and/or cloud ceiling ≤500FT

LVP Status	Comments	% Risk
N	Fog/LVP risk considered to be NIL	<5%
L	Fog/LVP risk considered to be "Low" but not NIL, would not normally appear in the TAF	5-29%
ML	Fog/LVP risk considered to be "moderate", there remains uncertainty in its occurrence and remains less likely than more	30-39%
MH	Fog/LVP risk considered to be "moderate", there remains uncertainty in its occurrence but it is a balance between likely/less likely	40-59%
H	Fog/LVP risk considered to be "high", it is now more likely than not	60-89%
VH	Fog/LVP risk considered to be "very high", it is likely this will be used when an airfield is in LVP conditions and the forecast is mainly concerned with clearance	>90%

## 2022/2023 D-1\* Verification

		N	L	ML	MH	H	VH
LL	D-1	192	25	15	7	3	0
	LVPs	0	0	7	3	2	0
	Rate	0.0%	0.0%	46.7%	42.9%	66.7%	-

		N	L	ML	MH	H	VH
KK	D-1	162	43	20	14	3	0
	LVPs	0	1	4	6	2	0
	Rate	0.0%	2.3%	20.0%	42.9%	66.7%	-

		N	L	ML	MH	H	VH
SS	D-1	168	31	22	10	10	1
	LVPs	5	3	9	7	7	1
	Rate	3.0%	9.7%	40.9%	70.0%	70.0%	100.0%

		N	L	ML	MH	H	VH
GW	D-1	123	55	35	13	16	0
	LVPs	3	10	16	5	9	0
	Rate	2.4%	18.2%	45.7%	38.5%	56.3%	-

		N	L	ML	MH	H	VH
GD	D-1	121	47	31	27	16	0
	LVPs	10	10	20	18	16	0
	Rate	8.3%	21.3%	64.5%	66.7%	100.0%	-

		N	L	ML	MH	H	VH
CC	D-1	188	28	15	7	4	0
	LVPs	5	2	4	2	1	0
	Rate	2.7%	7.1%	26.7%	28.6%	25.0%	-

\*1710 UTC Issue of LVP matrix day before



## 2022/2023 D0\* Verification

		N	L	ML	MH	H	VH
LL	D0	196	19	18	4	3	2
	LVPs	0	0	5	2	3	2
	Rate	0.0%	0.0%	27.8%	50.0%	100.0%	100.0%

		N	L	ML	MH	H	VH
KK	D0	161	38	19	15	4	5
	LVPs	0	0	2	4	2	5
	Rate	0.0%	0.0%	10.5%	26.7%	50.0%	100.0%

		N	L	ML	MH	H	VH
SS	D0	161	30	20	9	12	10
	LVPs	3	1	5	7	7	9
	Rate	1.9%	3.3%	25.0%	77.8%	58.3%	90.0%

		N	L	ML	MH	H	VH
GW	D0	120	55	21	13	19	14
	LVPs	1	6	7	5	10	14
	Rate	0.8%	10.9%	33.3%	38.5%	52.6%	100.0%

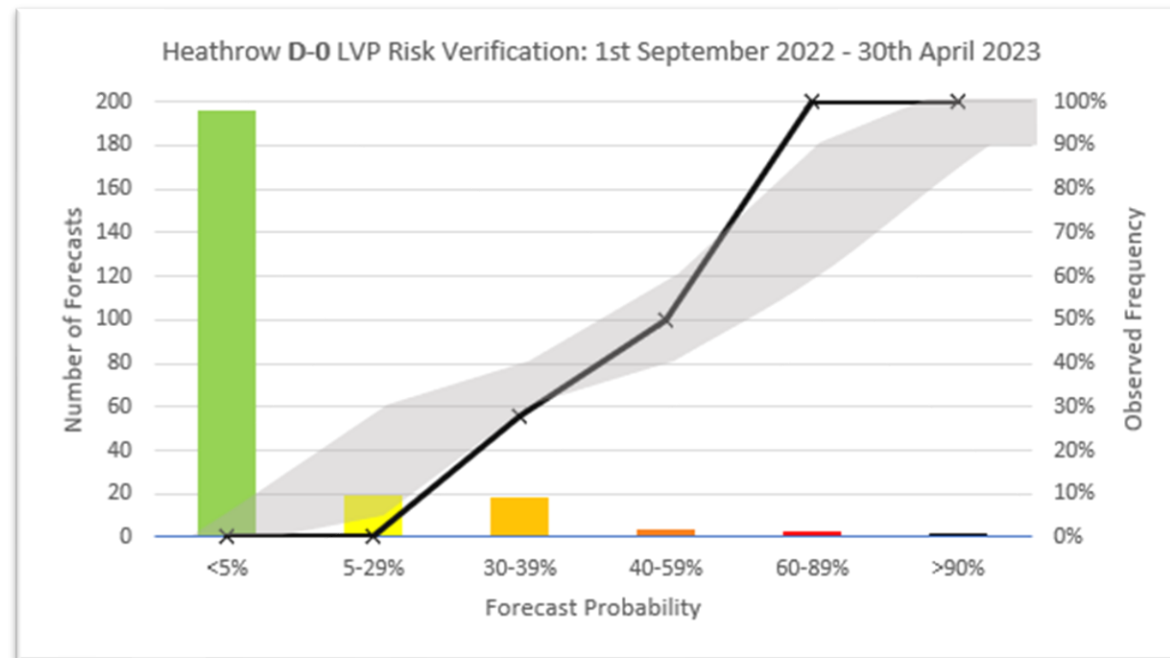
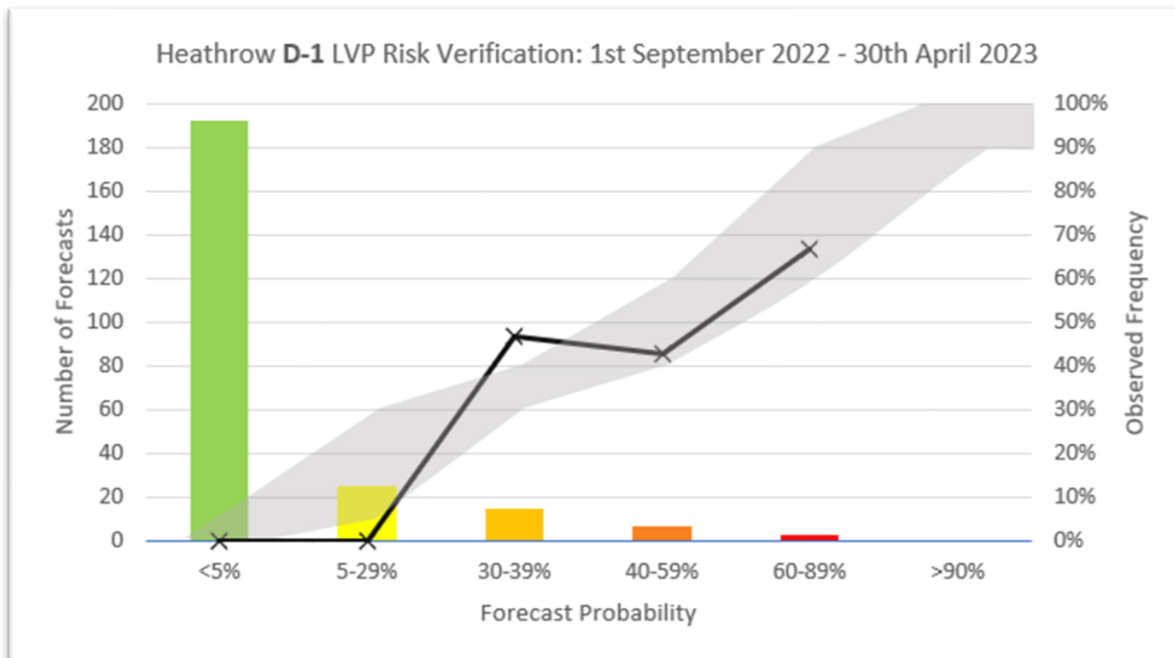
		N	L	ML	MH	H	VH
GD	D0	120	43	29	22	22	6
	LVPs	6	10	16	16	20	6
	Rate	5.0%	23.3%	55.2%	72.7%	90.9%	100.0%

		N	L	ML	MH	H	VH
CC	D0	184	32	12	7	5	2
	LVPs	3	2	3	0	4	2
	Rate	1.6%	6.3%	25.0%	0.0%	80.0%	100.0%

\*0325 L Issue of LVP matrix

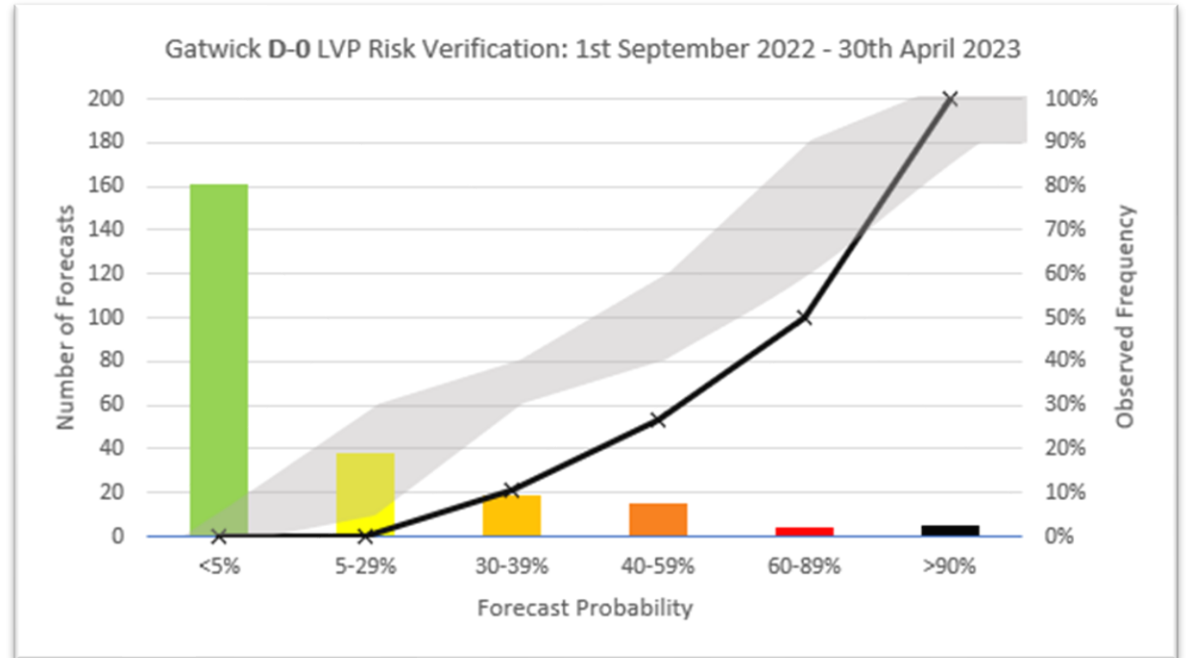
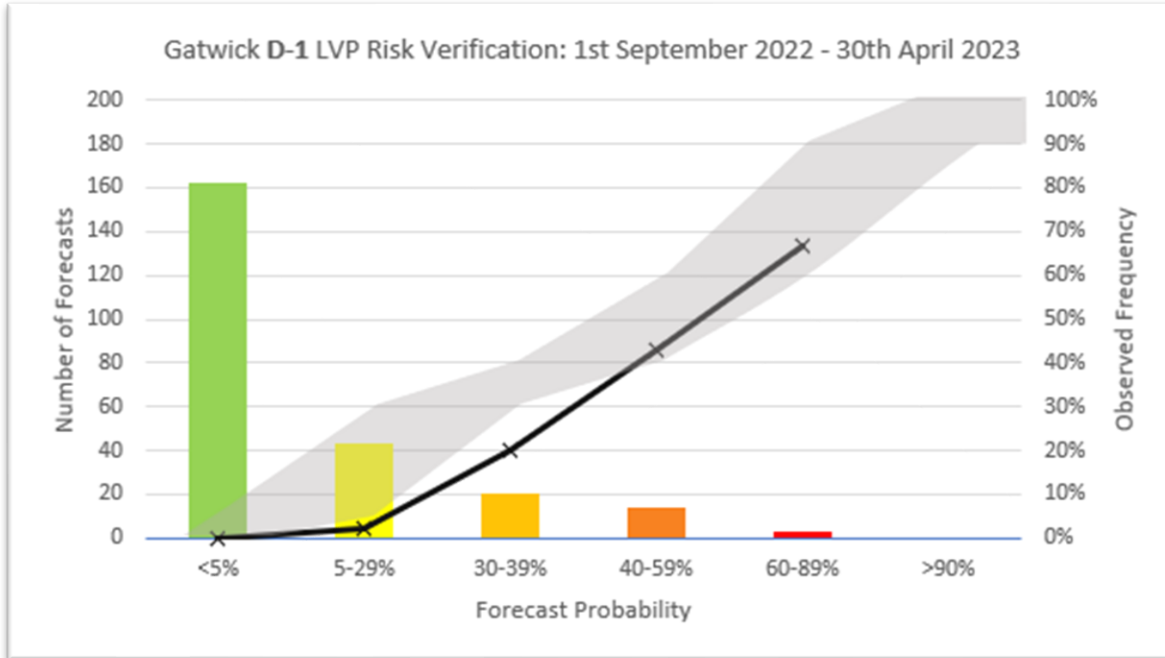
# Heathrow D-1 and D0 Graphs

LVP threshold:  
Visibility <600 m



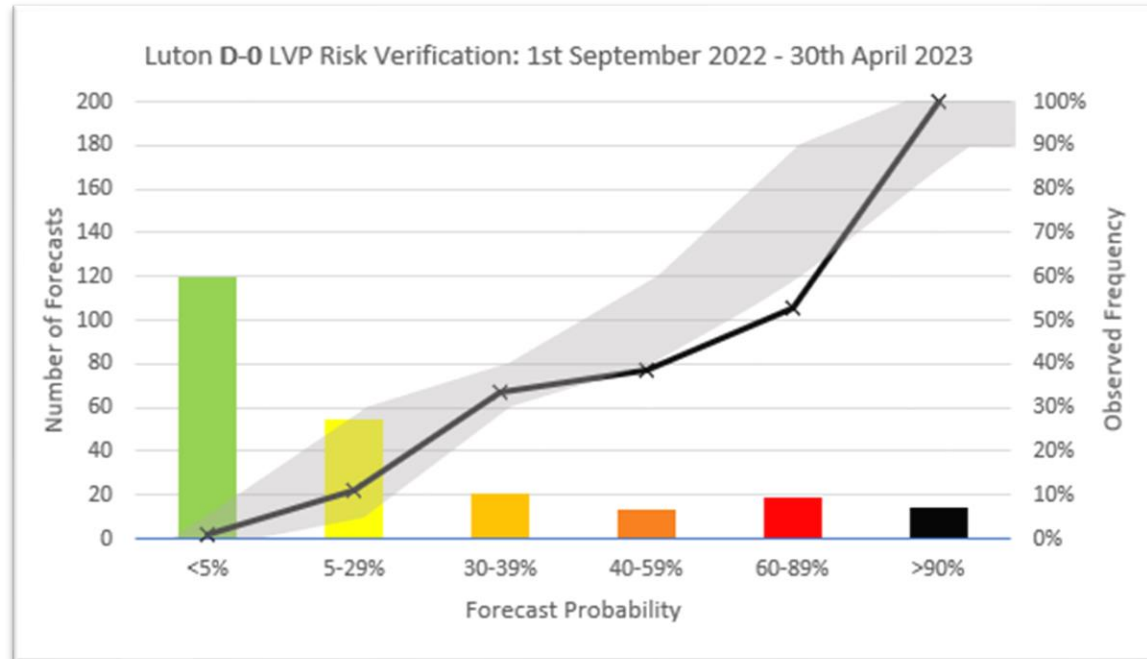
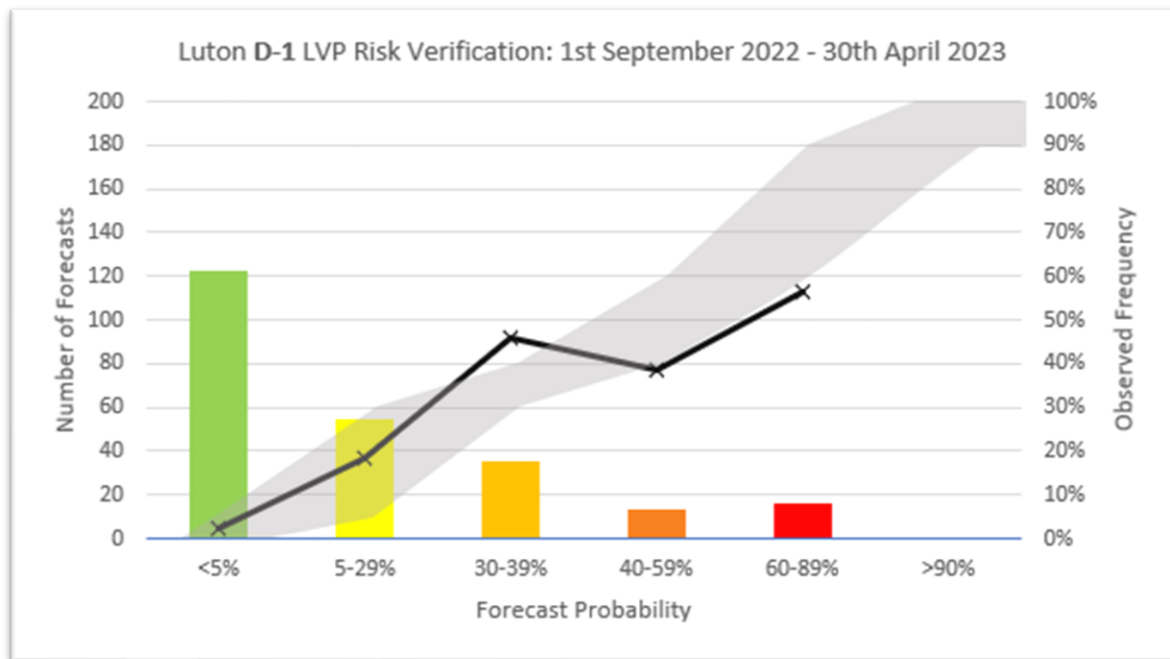
# Gatwick D-1 and D0 Graphs

LVP threshold:  
 Visibility <600 m  
 Cloud ceiling <200 ft



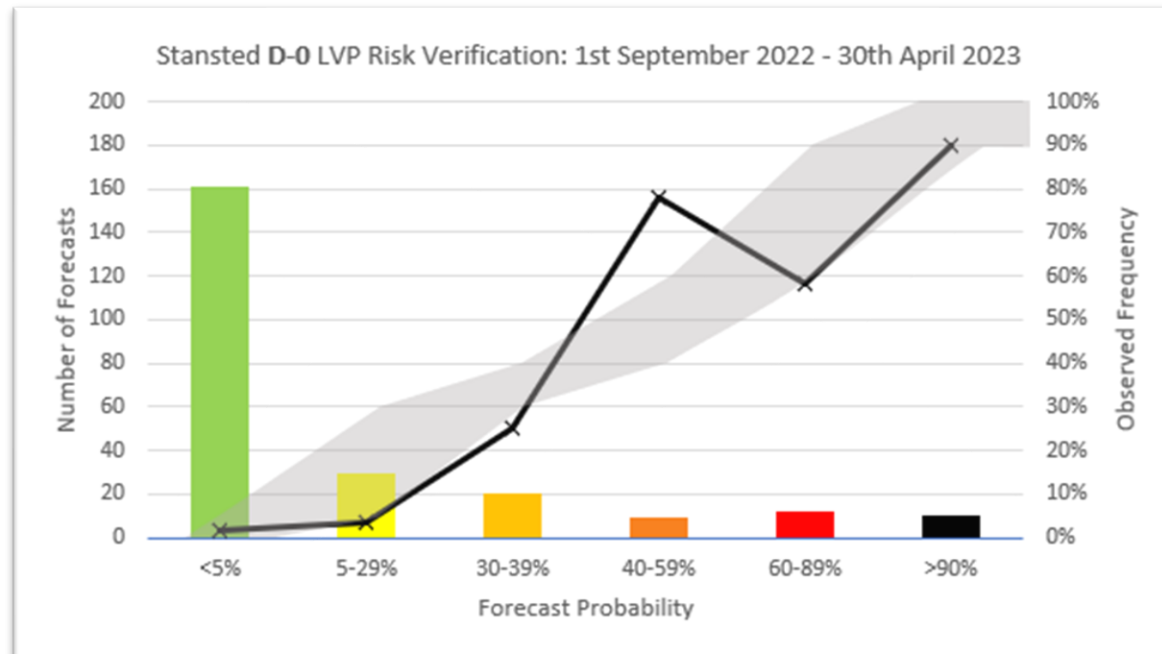
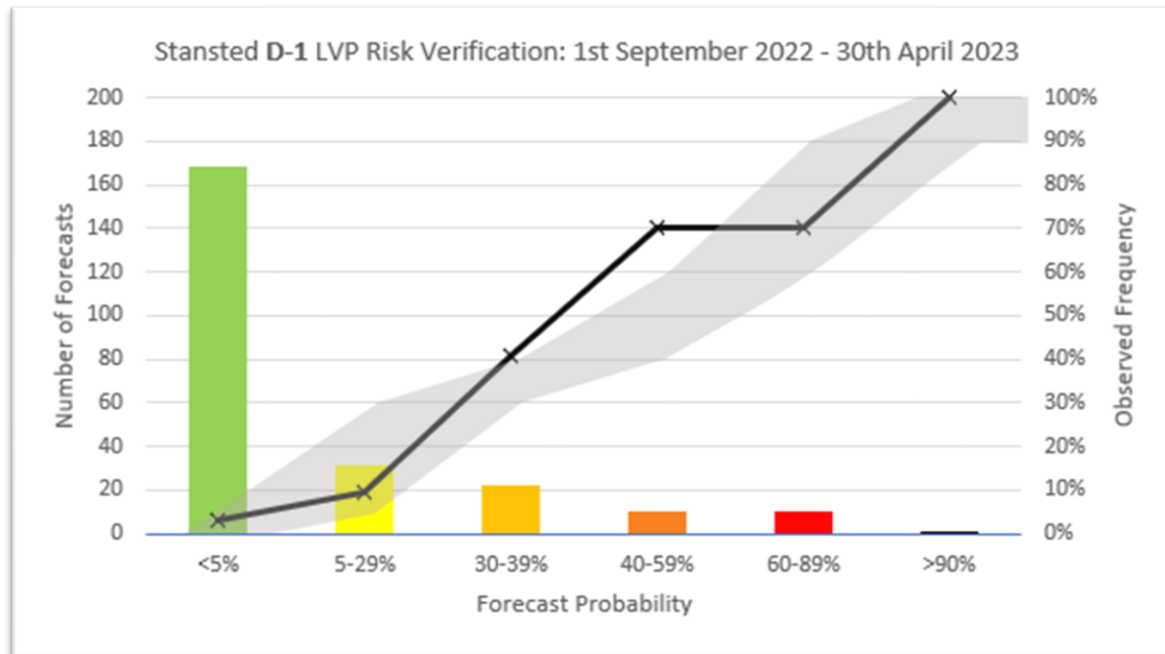
# Luton D-1 and D0 Graphs

LVP threshold:  
 Visibility <800 m  
 Cloud ceiling <200 ft



# Stansted D-1 and D0 Graphs

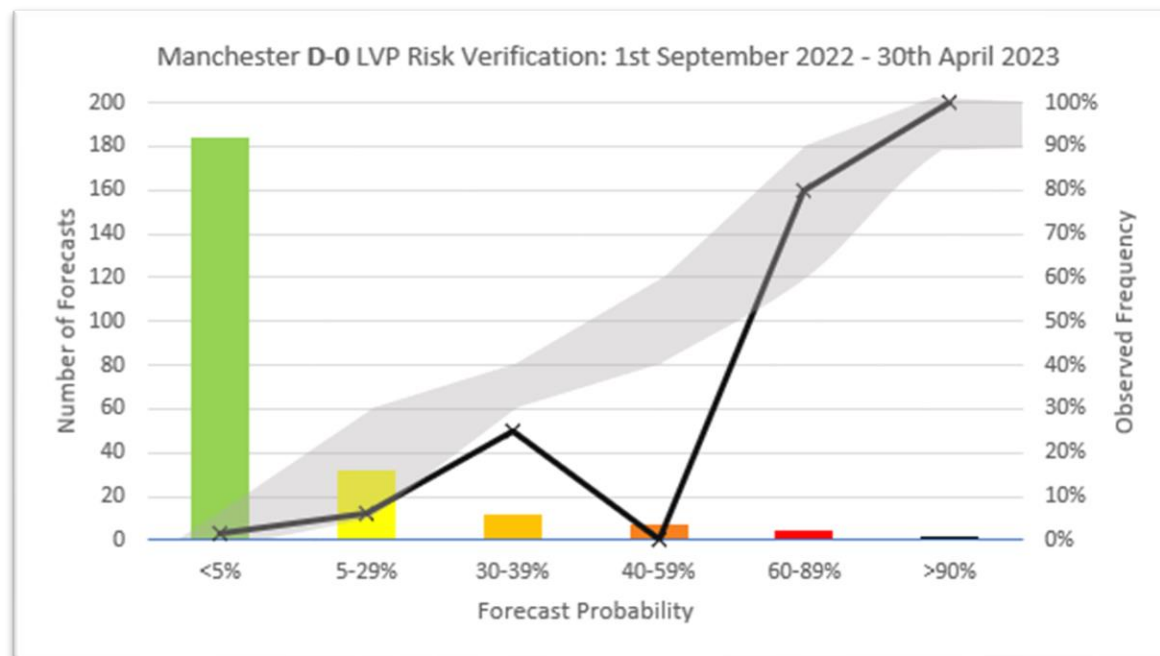
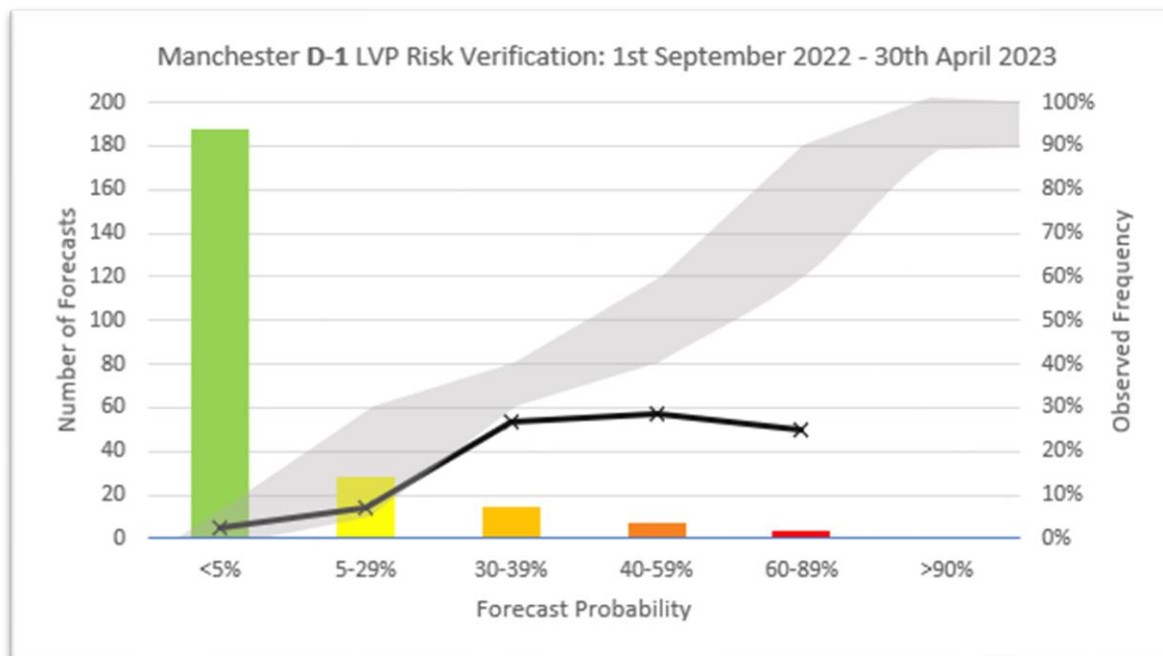
LVP threshold:  
Visibility <600 m





# Manchester D-1 and D0 Graphs

LVP threshold:  
 Visibility <600 m  
 Cloud ceiling <300 ft



# Bristol D-1 and D0 Graphs

LVP threshold:  
 Visibility  $\leq 1200$  m  
 Cloud ceiling  $\leq 200$  ft

