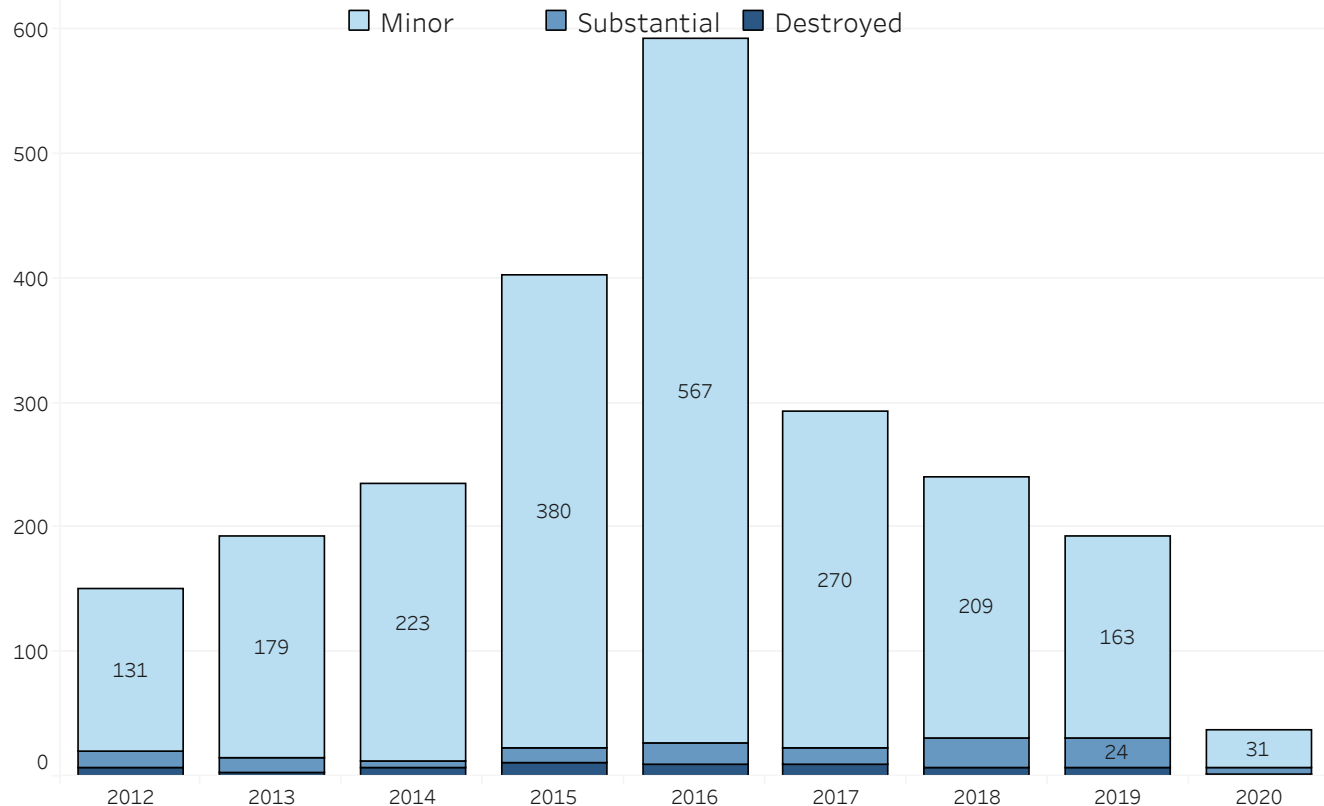


Aircraft damage

All damages to all aircraft due to all reasons



Location top 20

Number of damaged aircraft pr. aerodrome

	2012	2013	2014	2015	2016	2017	2018	2019	2020
Gardermoen	22	47	37	80	117	43	23	21	4
Stockholm	5	17	34	40	67	29	16	15	2
Copenhagen	12	6	19	27	59	17	14	12	1
Sola	10	10	10	17	25	10	12	6	
Flesland	9	8	11	9	19	12	10	4	2
London		4	9	9	9	13	3	2	4
Bodø	5	5	5	5	13	7	4	6	
Langnes	4	3	8	9	10	6	3	2	1
Værnes	4	3	2	7	10	9	6	3	2
New York		2	4	10	11	3	3	2	
Torp	3	5	3	2	2	3	5	5	3
Barcelona			1	7	6	3	6	6	
Helsinki		1	1	18	4	2	2		
Vigra	2	2	4	3	11	1		4	
Kjeller	2	1	3	5	3	2	6	3	
Paris		3		2	5	5	2	6	1
Budapest	1			5	12	3		2	
Gothenburg	1	5	1	6	4	3		1	
Unknown				9	7	1	3		
Kjevik	1		1	2	9	2	2	2	

Airborne events top 20

Occurrences can be assigned several airborne events

Lightning Strike	89
Birdstrike	42
Lightning Strike Damage	34
Aircraft Return	25
Damage to Aircraft	20
Diversion - Technical Reasons	15
Forced Landing	14
Mayday Call	13
Precautionary Landing	12
Aircraft Crash/Impact Damage	11
Birdstrike or Wildlife Strike Damage	11
Turbulence Encounter	11
Collision with Level Terrain	9
Collision Damage	7
Loose/Shed Aircraft Structure/Component Damage	7
Collision with Tree/Tall Vegetation	6
Electrical Static Discharge	6
Vibration/Rattle/Noise	6
5610 Flight Compartment Window	5
8500 Reciprocating Engine	5

Ground events top 20

Occurrences can be assigned several ground events

Collision - Vehicle with Parked Aircraft	511
Collision Damage	352
Damage to Aircraft	248
Take-off-with Previous Damage	106
Other Ground handling services	84
Flight Delay	50
FOD Damage	49
Birdstrike	43
Landing - Hard	42
Aircraft Return	41
Runway Side Excursion	38
Flight Cancellation	33
Aircraft Change	22
Loose/Shed Aircraft Structure/Component..	22
3244 Landing Gear Tyres	20
Cargo Loading/Unloading	20
Tail Strike/Over Rotation	20
Aerodrome FOD Control	19
Ground Collision with Vehicle/Equipment	18
3200 Landing Gear System	17

Aircraft damage by aircraft model

		2012	2013	2014	2015	2016	2017	2018	2019	2020
737	BOEING	66	101	122	273	419	137	85	55	11
787	BOEING			5	20	44	37	31	35	8
A330	AIRBUS	2	7	21	14	40	7	5	4	
DHC8	DE HAVILLAND	15	18	6	12	17	12	7	10	1
AS350	AEROSPATIALE	4	5	3	6	7	7	7	9	2
A340	AIRBUS	1	2	16	8	13	3	4	1	
A320	AIRBUS	1	2	3	2	5	10	9	12	2
A321	AIRBUS	5	4	7	6	3	7	5	3	
S92	SIKORSKY	3	5	5	1	2	1	9	2	
PA28	PIPER	2	2	2	4	1	4	2	6	
172	CESSNA	1	2	2	2	1	2	7	3	1
200	BEECH		1	7	3	1	2	3	2	
182	CESSNA	4				1	5	4	3	
Not mapped	OTHER			3	2	2	2	4	3	
R44	ROBINSON	2	2	2	1	1	2	1	5	
EC135	EUROCOPTER	1	1	3	3	2	1	2	2	
A319	AIRBUS	2	1	2		1	3	4		
F172	CESSNA	1	1			1	4	3	2	
EC225	EUROCOPTER	3	1	2	3	1				
CL600 2D24	BOMBARDIER	1	1	1	2		2	2		
DA40	DIAMOND						3	2	2	2

Aircraft damage by occurrence category

An occurrence can have one or several categories

	2012	2013	2014	2015	2016	2017	2018	2019	2020
RAMP: Ground Handling	43	61	105	245	461	150	94	56	6
SCF-NP: System/component failure or malfunc..	44	37	22	45	53	73	71	55	7
OTHR: Other	9	32	31	29	31	25	21	29	8
WSTRW: Windshear or thunderstorm.	23	17	24	35	8	28	31	24	10
BIRD: Birdstrike	9	13	21	24	15	11	10	11	1
SCF-PP: powerplant failure or malfunction	13	19	10	15	12	30	24	23	2
ARC: Abnormal runway contact	14	11	13	19	18	14	26	32	5
ADRM: Aerodrome	8	7	9	13	14	7	8	17	2
GCOL: Ground Collision	9	4	14	4	5	9	11	21	4
LOC-G: Loss of control - ground	13	8	5	13	6	14	3	20	7
RE: Runway excursion	13	19	10	10	6	10	12	22	3
LOC-I: Loss of control - inflight	3	3	5	17	6	11	21	9	6
F-NI: Fire/smoke (non-impact)		8	6	6		13	17	12	2
CTOL: Collision with obstacle(s) during take-off..	11	6	5		2	7	3	10	
TURB: Turbulence encounter		2	8	2	1	7	18	15	2
CFIT: Controlled flight into or toward terrain	5	1	3		1	5	6	5	
ATM: ATM/CNS			7	7	3		3	16	
NAV: Navigation error						9	12	11	
EXTL: External load related occurrences	5	2			3	3	8		3
CABIN: Cabin safety events	4	2	2	3	1				
LALT: Low altitude operations			2	8			3	6	
LOLI: Loss of lifting conditions en-route	2			1	3	1	4		
UIMC: Unintended flight in IMC	4		4				4		
AMAN: Abrupt manoeuvre	2	5				2	2		
F-POST: Fire/smoke (post-impact)				2	2	2		4	
USOS: Undershoot/overshoot		5			3		2		
GTOW: Glider towing related events	1	1						2	
ICE: Icing	2					3			
SEC: Security related			1	1		1			
FUEL: Fuel related		1					2		
MED: Medical					1	3			
RI: Runway incursion - vehicle, aircraft or person		5							
UNK: Unknown or undetermined				1					

Aircraft damage by operation type

		2012	2013	2014	2015	2016	2017	2018	2019	2020
	Minor	7	2	6		16	1	1		
	Substantial		2							
Commercial Air Transport	Minor	105	151	192	356	526	221	160	112	19
	Substantial	7	2	5	5	4	2	13	11	1
	Destroyed			1		1	1			
Nationally Regulated Operations	Minor						2	3	1	1
	Substantial						1			
	Destroyed						1		1	
Non-Commercial Operations	Minor	16	26	24	28	29	53	48	45	9
	Substantial	8	9	2	11	11	8	7	15	4
	Destroyed	3		2	3	4	7	6	4	
Not Applicable	Substantial							1	2	
Specialised Operations (Aerial Work)	Minor	5	4	2	2	1	5	6	6	2
	Substantial	1	1		1	2	3	3	2	
	Destroyed	3	3	3	7	4		1	1	1
Unknown	Minor	1	5							