

PHASE 1

In Nov 2020: NEW 0.25° Icing, Turbulence and CB gridded data NEW Improved Icing and Turbulence algorithms NEW OPMET data in IWXXM format

Retired: In cloud turbulence gridded data

PHASE 2 In Nov 2022: Retired: Medium level SIGWX charts Retired: In cloud turbulence SIGWX objects NEW: SIGWX in IWXXM format

Adjustments to the high level SIGWX charts introduced for Annex 3 Amendment 80.

In Nov 2028: Latest date for the retirement of legacy systems.

In Nov 2028:
Potential retirement of deterministic hazard

forecast data

WAFS 10 YEAR PLAN

OPMET		OPMET				
TAC Format		TAC and IWXXM Format				
T+24 SIGWX BUFR Objects Jetstream (position, speed, core height, depth), CB (extent, base, top), CAT, Icing, In-cloud turbulence, Tropopause height. Position of tropical cyclones, volcanic eruptions, and radioactive release		T+24 SIGWX BUFR Objects	T+24 SIGWX IWXXM Objects, and until Nov 202 Jetstream (position, speed, core height), CB (extent, top), In cloud-turbulence field will be retired			
T+24 SIGWX Charts 13 high level and 4 medium level png charts			T+24 SIGWX Charts 13 high level charts covering FL100 to FL530 Medium level charts retired. Content included on WAFC p			
GRIB2 Hazard Data 1.25° Cumulonimbus extent/base/top (1), Icing Potential (6), In-cloud turbulence (5), CAT (6) T+6, T+9, T+12, T+15, T+18, T+21, T+24, T+27, T+30, T+33, T+36		NEW: GRIB2 Hazard Data 0.25° Cumulonimbus extent/base/top (1) Icing Severity (6), Turbulence Severity (8), New Icing and Turbulence (GTG) algorithms used. T+6, T+9, T+12, T+15, T+18, T+21, T+24, T+27, T+30, T+33, T+36 *Note: In-cloud turbulence retired and replaced with 3 extra turbulence levels.				
GRIB2 Data 1.25° Wind (17), temp (17), Geopotential height (17), Relative Humily Jetstream height/speed/direction (1) T+6, T+9, T+12, T+15, T+18, T+21, T+24, T+27, T+30, T+33, T	dity (5), Tropopause height and temp,	GRIB2 Data 1.25° Wind (17), Temp (17), Geopotential height (17), Relative Hun T+6, T+9, T+12, T+15, T+18, T+21, T+24, T+27, T+30, T+33,		e height and temp, Jetstream height/speed/direction (1)		
		Nov 2020	Nov 2022			Nov 2028
		SADIS FTP	WIFS			
2018	2020	2022	2024	2026	2028	2030
		TEST SYSTEM	NEXT GENERATION WAFS DELIVERY SYSTEM			
			GRIB2 Data 0.25° Wind (49), Temp (49), Geopotential height (49), Relative Humidity (14), Jetstream height/speed/direction (1) Tropopause height and temperature (1) T+6 to T+24 in hourly intervals, T+27 to T+48 in 3 hour intervals, T+54 to T+120 in 6 hour intervals.			* Note: The provision of deterministic data types will be reviewed, and may be replaced by probabilistic output if appropriate.
			GRIB2 Hazard Data 0.25° Cumulonimbus (base, top, extent). Icing Severity (25), Turbulence Severity (36) T+6 to T+24 in hourly intervals, T+27 to T+48 in 3 hour intervals			* Note: The provision of deterministic data types will be reviewed, and may be replaced by probabilistic output if appropriate.
		ov 2022	Cumu	abilistic Hazard Data Ilonimbus, Icing Severity, Turbulence Severity ution, time-steps and exact output still to be determined		
Note: the number shown by GRIB2 data types indicates the number of levels of data that will	be	Ž	Next-generation SIGWX Objects, IWXXM format FL100-FL530 Jetstream (position, speed, core height), CB (extent, top), Turbulence, Icing. Position of tropical cyclones, volcanic eruptions, and radioactive release T+6, T+9, T+12, T+15, T+18, T+21, T+24, T+27, T+30, T+33, T+36, T+39, T+42, T+45 and T+48			
Available Note: Test data sets would be made available to workstation providers and users ahead of each operational change.			SIGWX Charts PNG charts for 3 areas (1 Mercator and 2 polar charts) Jetstream (position, speed, core height), CB (extent, top T+6, T+9, T+12, T+15, T+18, T+21, T+24, T+27, T+30, T	o), Turbulence, Icing. Position of tropical cyclones, volcani	ic eruptions, and radioactive release	
			OPMET IWXXM format			

In Nov 2024:

NEW Probabilistic forecasts of CB, Icing and

Turbulence

PHASE 3

PHASE 2

In Nov 2022: Next generation WAFS data sets and delivery system becomes operational