

	NAVIGATION WEATHER RADAR	1.34.60	P 1
		SEQ 001	REV 12

DESCRIPTION

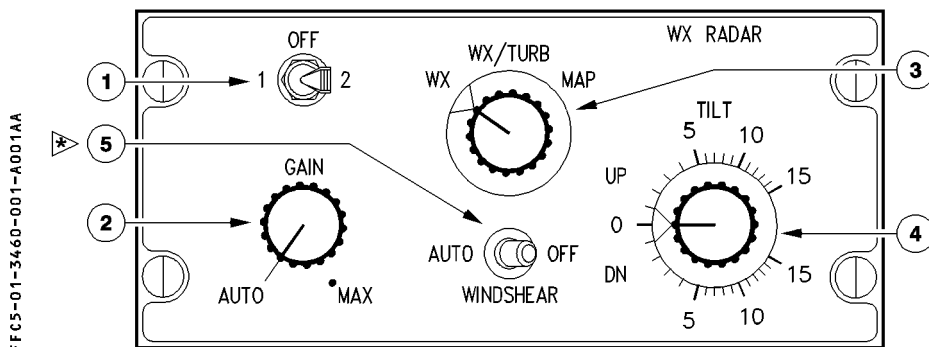
The aircraft has two weather radar systems. Only one transceiver is active.

It can display the weather image on the ND in any mode except PLAN.

Each pilot may remove the weather image from his ND by setting the associated brightness control to the minimum (refer to 1.31).

Note : Some aircraft may be fitted with one weather radar system only.

CONTROL PANEL



① Transceiver 1-2 sel

This switch allows to select one radar, or to turn both radars to off.

Note : When one radar only is fitted on aircraft, no weather image will be displayed when switching on system 2.

② GAIN knob

This knob adjusts the sensitivity of the receiver in all modes.

"AUTO" automatically adjusts the gain to the optimum setting.

③ Mode sel

- WX : Weather mode : colors indicate the intensity of precipitation (black for the lowest intensity, green, amber and red indicating progressively higher intensities).
- WX/TURB : The screen shows turbulence areas (in precipitation areas) in magenta (within 40 NM).
- MAP : Radar operates in ground mapping mode : black indicates water, green, ground and amber, cities and mountains.

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④ TILT knob

This knob controls the antenna tilt.

Zero represents the horizon as the ADIRS 1 sees it as follows :

- WS SYS 1 by ADIRS 1 (or 3 if selected)
- WS SYS 2 by ADIRS 2 (or 3 if selected)

Note : *Setting different scales on the ND reduces the sweep rate of each ND image.
(8 seconds instead of 4 seconds)*

⑤ WINDSHEAR Sel (operative only if the windshear function is embodied)

- AUTO : Windshear function is activated : Windshear areas will be detected by the antenna scanning below 1500 feet RA even if transceiver selector (1) is set to OFF, and displayed on the ND.
- OFF : No windshear function.

WINDSHEAR PREDICTION FUNCTION

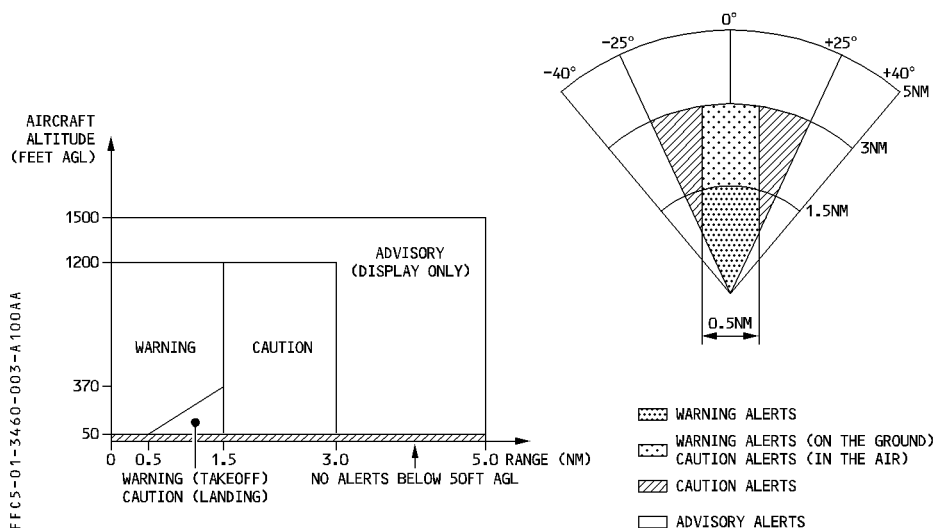
The weather radars have a predictive windshear capability.

The Predictive Windshear System (PWS) operates when :

- the PWS switch is on AUTO position, and,
- the aircraft is below 1500 feet AGL, and,
- the ATC is switched to the ON or AUTO position, and,
- either engine is running.

When the system detects a windshear, depending on the range selected on the ND, a warning, caution or advisory message appears on the ND. Predictive windshear warning and caution are associated with an aural warning.

The windshear alert ranges, altitudes and locations for the three alert levels are given hereafter :



During takeoff roll, both warnings and cautions are available within a range of 3 NM.

At takeoff, alerts are inhibited above 100 knots and up to 50 feet.

At landing :

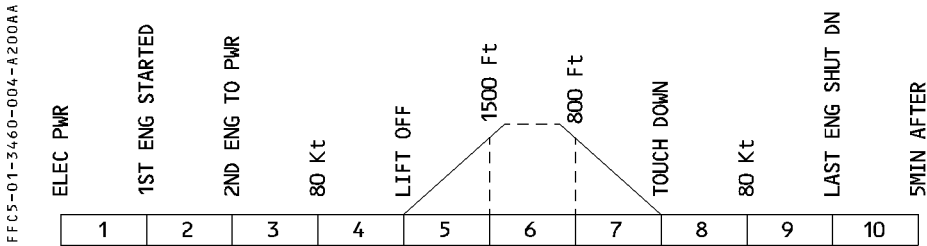
- alerts are inhibited below 50 feet.
- the visual and aural warning alerts are downgraded to caution alerts between 370 feet AGL and 50 feet AGL, and range between 0.5 NM and 1.5 NM.

Alert Level	Aural Warning	PFD	ND (refer to 1.31.45)
Warning (Approach)	«GO AROUND WINDSHEAR AHEAD»	W/S AHEAD (red)	Windshear icon
Warning (Takeoff)	«WINDSHEAR AHEAD» (twice)	W/SAHEAD (red)	Windshear icon
Caution	«MONITOR RADAR DISPLAY»	W/S AHEAD (amber)	Windshear icon
Advisory	Nil	Nil	Windshear icon

The predictive windshear system aural alerts :

- have priority over TCAS, GPWS and other FWC aural warning.
- are inhibited by windshear detection by FMGC and stall warning aural messages.

WARNING AND CAUTIONS



E/W D : FAILURE TITLE conditions	AURAL WARNING	MASTER LIGHT	SD PAGE CALLED	LOCAL WARNING	FLT PHASE INHIB
PRED. W/S DET FAULT	SINGLE CHIME	MASTER CAUTION	NIL	NIL	3, 4, 5, 8

MEMO DISPLAY

PRED W/S OFF appears when the windshear is selected OFF on the weather radar panel. It appears green when in flight phase 2, 6 and amber when in flight phase 3, 4, 5, 7, 8, 9.