Breguet (later Marcel Dassault - Breguet) Atlantic 1

A model for FS9 and compatible with FSX(_{see note})

An FSDS model made by Massimo Taccoli.
Original panel by Jean-Pierre Langer ,
Textures, by Massimo Taccoli with help by Gilles Devismes
Flight Dynamics files by Dennis Seeley.
Sound by Mike Hambly.
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1 Historic notes

The Atlantic 1 originated in a 1957 NATO requirement (NMBR-2) for a long-range maritime reconnaissance aircraft. The winner was the BREGUET Br.1150 (this company being absorbed by Marcel Dassault in 1971), fabricated by the SECBAT (Societè d'Etudes et de Construction de Breguet Atlantic) consortium, which then included SABCA and SONACA in Belgium, Fokker in Holland, Dornier and MBB in West Germany, Aerospatiale in France and Aeritalia in Italy. Assembled by Breguet , the first of four prototypes was flown at Toulouse on 21 October 1961.
Carrying 12 crew, the Atlantic is equipped with Thompson-CSF search radar in a retractable bin and American ASW avionics similar to those of the Lockheed Neptune. Standard NATO stores can be carried in the 30ft (9.15 m) unpressurized weapons bay in the lower section of the'double-

bubble' fuselage, most of the external skin is being light alloy sandwich. The first of 20 examples for the West German Navy and 40 for France's Aeronavale entered in service in December 1965. French aircraft serve with 21F and 22F at Nimes-Garons and 23F and 24F at Lann-Bihoué. The Aeronavale began retirement of first generation Atlantics in 1992, although some aircraft will be retained for surveillance tasks, perpetuating the detachments already established at Djibouti, Dakar, Reunion, and in the Antilles.

German Atlantics of MFG5, Kiel-Holtenau, have completed an update involving new Texas Instruments radar, Emerson Electric sonar and Loral ESM equipment in wingtip pods. In parallel, airframe improvements have doubled flying life to 10.000 hours. By contrast the six survivors of nine delivered to n°321 squadron of the Royal Netherlands navy at Valkenburg in 1969-72 being phasing out in January 1984, replaced by P3C's.

Italy's 18 Atlantics were supplied between June 1972 and July 1974 to complete production, and are operated by 30° Stormo at Cagliari/Elmas and 41° Stormo at Catania/Sigonella on patrols on the Mediterranean.

Pakistan obtained three from French navy in 1975-76; wearing navy titles, these are flown by n° 29 squadron of the Pakistan Air force from Sharea Faisal.

Notes from Encyclopaedia of MILITARY AIRCRAFT, Aerospace-Publishing 1994

2 Specification

Wing:	Span 36.30m	(119ft 1in)
	Aspect ratio 10.95	
	Area 120.34 m2	(1.295.37 sq ft)
Fuselage & tail:	Length 31.75 m	(104ft 2in)
	Height 11.33 m	(37ft 2in)
	Tail plane span 12.31 m	(40ft 4,5 in)
	Wheel track 9.00 m	(26ft 6.25in)
	Wheel base 9.44 m	(31ft 0in)
Power plant:	Two Rolls Royce Tyne Rty.20 mk21 each rated at 6.100 ehp (4549 eKW)	
Weights:	Empty equipped 25000 kg (55.115 lb)	
	Maximum take-off 44500 kg (98.104 lb)	
Fuel & load:	Internal fuel 18500 kg	(40.785 lb)
	External fuel none.	
	Maximum ordnance 3500 kg (7.716 lb)	
Speed:	Maximum level speed 'clean' at optimum altitude	
	658 km/h	(335 kt, 409 mph)
	Speed at 7200 m	(23.620 ft) 556 km/h (300 kt; 345 mph)
	Normal patrol speed at optimum altitude 315 km/h (170 kt; 196 mph)	
Range:	ferry range 9000 km	(4.856 nm; 5.592 miles) endurance 18 hours.
Performance:	service ceiling 10000 m	(32.810 ft)
	Take off distance to 10.5 m (35 ft) 1500 m (4.921 ft) at max take-off weight.	

3 Model Installation

Unzip the zip file in Flight Simulator 9 folder saving the folder structure contained in the zip file. The file Atlantic.gau, contained in gauges folder, will go in gauges folder of Flight Simulator 9 .

Sound folder contains a specific sound set for the Atlantic 1 engine made by Mike Hambly . I tried to request his permission to use the sound files , but his known e-mail address has bounced back. I hope that he would nothing to claim for using his files.

That's all launch FS9 and enjoy your flight!

4 <u>Model features</u>

The aircraft model, completely reworked as to the original model released some years ago, has been designed using Abacus Flight Design Studio v3.51 www.Abacuspub.com and compiled for FS9 with makemdl.exe. The model can be used also in FSX , but you must read the note here below at the end of the text.

The package contains a specific version of the Atlantic as that used by French marine in two different liveries , the old colors and the new one . The model with older livery carry the badge of the 24F navy squadron , the example with new livery carry that of 23F navy squadron both based at Lann-Bihoué.

Old Livery , Squadron 24F   New Livery, Squadron 23F

The panel has been made with FS Panel Studio, http://www.fspanelstudio.com/. The photorealistic panel uses all expressly made gauges made by Jean-Pierre Langer. The model has no 3D virtual cockpit instead it uses a series of photographic fixed views taken aboard a French Atlantic example. In Documents folder you'll find a document made by Jean Pierre Langer and Arme Bartels which explains various function of the 2d panel with all its gauges.

Here below a picture of the 2d panel.

The model has all possible moving parts such as the following listed with the proposed key-press assignation:

Spoiler / spoilerons = **ù**   (default in FS)

Radar radome   = **Shift+numlock**   (tailhook in FS) (there is a switch on the panel too)

Crew access door   = **Shift+E**   (default Exits in FS)

Bomb Bay doors   = **SHIFT+E+2**   (Open and close doors)(*)

(*)There is a switch on the 2d panel for the bomb bay which is not operative.

Above each wing surface are situated three separate moving panels , the inner panel act only as spoiler and are activated with the default FS assignation (ù) while the two outer ones are spoilerons and move tied to movement of ailerons.

Below each wing are also modeled three panels which act as airbrake together with the spoiler panel above the wings

5 Credits

A special thanks goes to **Jean-Pierre Langer** for his incredible work on the creation of the various gauges present on the panel, **Dennis G. Seeley** that made the flight dynamics file for the model and **Gilles Devismes** for his help with updating textures and model details of the French version.

Next I would thank all people, who in a way or in the other provided me with useful information, data and photo of the true aircraft.
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6 Contacts

I want to thanks all that will downloaded this file from Internet, I hope you could spend pleasant hours "flying" with this model. If you would let me have your comments and suggestions or to let me know your opinion on my work please send me an e-mail to maxtaccoli#libero.it (change # with @).

7 Copyright and distribution

Legal Stuff:
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8 FSX installation

(*) NOTE to FSX installation and use.

The model has been tested with FSX + Acceleration with almost no problems. To install the model in FSX , extract the zip file in a temporary folder then copy the folder MDB Atlantic1, with all its content, from Aircraft folder to Airplanes folder in FSX. Then copy the content of gauges folder into gauges folder of FSX.

Texture folders contain suitable thumbnail.jpg file to show the model in FSX's aircraft selection window. You will find the model listed as M.Dassault Breguet manufacturer.

August 2012
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