

Breguet (later Marcel Dassault - Breguet) Atlantic 1

Model version 2.1 for FS9 of Italian Air Force

ATL1_V.2.1_FS9_ITA.zip

(Available a separate version for FSX)



A model made by Massimo Taccoli.

Main Textures by Massimo Taccoli.

Original panel by Jean-Pierre Langer and Arne Bartels

Repaint for Special Color livery, by Giuseppe Natalicchio & Amedeo Ceci

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 (Società 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 Nîmes-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 were operated by 30° Stormo at Cagliari/Elmas and 41° Stormo at Catania/Sigonella on patrols duty 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 m ² (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 off weight.	10.5 m (35 ft) 1500 m (4,921 ft) at max take-

3 Model Installation

To install the model in FS9, unzip to your Aircraft folder in FS9 & move (or copy) the contents of the Effects folder to your FS9 Effects folder. You will find the model listed as M.Dassault Breguet manufacturer.

Please read key press.txt here below, to know how to assign key press for specific animations in FS9.

That's all launch FS9 and enjoy your flight!

4 Model features

This is the version 2.1 of the model, it has been completely reworked as to the original model released some years ago, it has now a virtual cockpit model, absent in the original model. This model has been designed with Abacus Flight Design Studio v3.51 www.Abacuspublisher.com and compiled for FS9 with makemdl.exe. There is also a separate specific version for FSX.

The present package contains the versions of the Atlantic as that used by the Italian Air Force in two different liveries, the old original colors and the most recent one. The model with older livery carry the code of Italian Air Force 41° Wing 88° Group 41-77, the example with new livery carry that of Italian Air Force 41° Wing, 88° Group, 41-71. This last example is an updated version of the older and carry a new special antenna on top of the fuselage spine for ALCO system. Enclosed are also other two Special Color painted models to commemorate special anniversary of the Atlantic 1.

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

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



Old Livery ,



New Livery,





Special color 20th Anniversary



Special color 40th Anniversary

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. To this new version of the model has been added an animated 3d virtual cockpit. In Documents folder you'll find the original document made by Jean Pierre Langer and Arne Bartels which explains various function of the 2d panel with all its gauges.

Here below a picture of the 2d panel and the new 3d virtual cockpit.



The model has many moving parts such as the following listed with the proposed key-press assignation in FS9:

- table border="0">
- | | | |
| --- | --- | --- |
| spoiler | = ù | (Key press default in FS) |
- | | | |
| --- | --- | --- |
| Radar radome | = Shift+A | to raise and lower radome(key press for tailhook) |
- | | | |
| --- | --- | --- |
| Bomb bay doors(*) | = Shift+E | to open and close bomb bay doors(animation tagged to passenger_door) |
- | | | |
| --- | --- | --- |
| Crew access door | = Shift+W | to open and close door (Key press for Wingfold) |

(*)Switch on 2d panel is not operative.

5 Credits

A special thanks goes to :

Jean-Pierre Langer and Arne Bartels for their work with gauges present on the panel;
Dennis G. Seeley that made the flight dynamics file for the model;
G. Natalicchio e A.Ceci for having let me enclose their repaints in this package;
Commander G.Quai for his advices, suggestions and help on testing the model.

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.

6 Contacts

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:

Do not make any kind of changes to the plane or to the documentation without the original authors written permission and acceptance. Also it is forbidden to include this package in any commercial add-on CD without a written permission from the authors to do that. You can upload this plane on every site at Internet as long as this file remains unchanged and name of respective authors are clearly mentioned.

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Massimo Taccoli “MaxTac”

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