



## *Scenery Addon for Microsoft Flight Simulator 2004*

### **INTRODUCTION**

The France Mesh covers the whole French territory with a 1.5 second arc data elevation model, about 38 meters (LOD10) in Flight Simulator.

This mesh product is the first one to provide such a resolution for France and for DOM.

For its development, we've used the IGN BDALTI © data elevation model in an extended Lambert II format with a reprojection into Flight Simulator WGS84 standard format.

To help using it, we've splitted it into 9 pieces for France plus 1 piece for the DOM area. This way it's easy to acquire only desired areas and mix them with other editor's meshes.

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**QUALITY FIRST! BY NOT MAKING ILLEGAL COPIES OF THIS PRODUCT AND USING ONLY ORIGINAL France VFR PRODUCTS, YOU ALLOW US TO CONTINUE DEVELOPMENT OF TOP QUALITY PRODUCTS.**

**THANK YOU.**

## TECHNICAL SPECIFICATIONS

- High resolution native 38 meters (LOD10) data format
- Easy to use and configure 10 areas splitting
- Official French IGN institute BDALTI © data sources
- Light version 76 meters (LOD9) provided
- Full compatibility with France VFR FlightSeries sceneries
- Ability to mix the mesh with others lower resolution meshes products

# INSTALLATION

## STANDARD INSTALLATION

### Minimum configuration required:

- Microsoft Flight Simulator 2004 - Pentium or Athlon 2Ghz - 512 MB Ram
- Windows 98, Me, 2000 or XP - 290 MB of free disk space.

### Graphic card:

- Please make sure you have the latest drivers installed for your graphic card. These can usually be obtained on the manufacturer's web site.

**Mesh France** has its own automated installation program which will guide you through the installation steps. Launch **install\_meshfrance.exe** and follow the instructions. Once the program is installed you can launch Flight Simulator and start flying immediately over french territory as the installer declares the scenery automatically.

This program will install the following elements to your FS9 install folder :

#### *MESH :*

\Addon Scenery\MeshFrance\Scenery

#### *FILES :*

msh_MF_c*.bgl	Centre
msh_MF_corse*.bgl	Corse
msh_MF_e*.bgl	Est
msh_MF_gua*.bgl	Guadeloupe
msh_MF_guy*.bgl	Guyane
msh_MF_idf*.*	Ile de France
msh_MF_mar*.bgl	Martinique
msh_MF_may*.bgl	Mayotte
msh_MF_n*.bgl	Nord
msh_MF_ne*.bgl	Nord-Est
msh_MF_no*.bgl	Nord-Ouest
msh_MF_o*.bgl	Ouest
msh_MF_run*.bgl	Réunion
msh_MF_se*.bgl	Sud-Est
msh_MF_smb*.bgl	Saint-Martin / Saint-Barthelemy
msh_MF_so*.bgl	Sud-Ouest

#### *DOCUMENTATION :*

\France VFR \MeshFrance\

## UNINSTALL PROCEDURE

To uninstall **Mesh France** :

1. Click on the "START" menu in Windows
2. Select : **Programs → France VFR → MeshFrance → Uninstall Mesh France** and follow the instructions.

## RECOMMENDED SETTINGS

The **France Mesh** has been developed to work properly with the TERRAIN\_MAX\_VERTEX\_LEVEL set to 21 (fs9.cfg) but can be used with more standard values such as 19 or 20 depending on your hardware configuration. This setting is accessible through the TERRAIN section in the fs9.cfg file, it will allow you to try different values and find the best compromise.

**Warning!** Setting this parameter to 21 will give the best precision in terms of ground elevation. This resolution level may generate some inaccuracies in the way the terrain is displayed as unwanted peaks. Please note that a TERRAIN\_MAX\_VERTEX\_LEVEL set to 21 will demand more hardware resources than lower values.

**Optimisation :** It is strongly recommended to defragment your hard drive before installing the France Mesh in order to improve the data loading time from the hard drive.

## LIMITATIONS

Because of the format and the mesh coverage data taken from the BDALTI © IGN, it is important to take the following limitations into account:

-the 38m (LOD 10) format data cover the french territory to its boundaries, for technical reasons, this part of the mesh actually stops some ten kilometers before the boundaries. In order to complement the data, we provide a set of 76m format (LOD 9) meshes taken from the SRTM data which, for the most part, are optimised (Alps, Pyrénées). These overlapping layers may generate some staircase effect at the 38 meters (LOD 10) limits due to altitude differences with the 76 meters (LOD 9) mesh.

-the France Mesh offers a much bigger resolution than its standard Flight Simulator counterpart and the most part of the generic SRTM (LOD 9) meshes. Therefore, the slopes are more accurate and more noticeable. Flight simulator (version 9) is not able to render sloppy runway, this may lead to some platform effect for some runways. This is normal and can't be avoided in the present version of Flight Simulator. If the next versions of Flight Simulator are able to implement sloppy runways this phenomenon will disappear.

-french Guyane mesh data is not from BDALTI © IGN, it is compiled from standard SRTM 76 meters (LOD 9).

## **SUPPORT - FEEDBACK**

If you encounter any problems while using this product, do not hesitate to ask a question on our forums at :

**<http://www.francevfr.com/forum/>**

Any other feedback can be posted on the forums, or emailed to :  
**[support@francevfr.com](mailto:support@francevfr.com)**

## **CREDITS**

### **Data Elevation Model – BDALTI © IGN**

IGN - Institut Géographique National

### **Special Thanks**

To Jonathan De Ferranti ([www.viewfinderpanoramas.org/dem3.html](http://www.viewfinderpanoramas.org/dem3.html)) for having shared his meshes data with France VFR to create the French frontier coverage with Italy and Spain.

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