

Active Sky



Total Weather Immersion

User's Guide



ACTIVE SKY 2012 USER'S GUIDE

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Introduction

Welcome to **Active Sky 2012!**

Active Sky 2012 was built for flight simulation enthusiasts who value realism. From the very conception of the Active Sky Weather Engine in 2001, Realism has been our number one focus. Throughout the years we have expanded the product from simple weather generation to full-fledged interactive weather environment simulation including planning, mapping, graphics enhancements and advanced air effects. **Active Sky 2012** represents the latest culmination of our developments and brings several brand new features we are proud to introduce:

- Over 16GB of High-Definition Graphics Texture Enhancements (uncompressed size)
- User-Recoloring capability for all Clouds, Water, and Sky textures
- Enhanced Flight Planning with Integrated Mapping, Auto Route Building, Graphical Waypoint Editing and Plan Export capability
- Updated and Enhanced Weather Engine
- New Stratocumulus Simulation
- Improved Thunderstorm and Hurricane Depiction
- Improved Fog Layer Simulation and Low-Visibility Depiction
- New User Interface Design
- XGauge In-Flight Radar and Weather Display System
- Universal Graphics Add-on Integration with Weather-Influenced Support

Active Sky 2012 includes all the major functionality and features of previous Active Sky versions:

- Exclusive Snapshot System with Auto Generation
- Advanced weather engine and depiction system for Flight Simulator X
- Accurate global winds aloft simulation with 60x60 nm forecast data resolution
- Direct Weather Control system for accurate winds aloft, smoothing and local ambient weather depiction
- Dedicated Private Server System
- Online real-time or offline usage
- Historical Weather Access (for the past 3 years)
- Hurricane Simulation
- Visual Mapping System
- Included XGauge in-flight weather display gauge
- Included XGauge Wizard gauge installation tool
- Advanced air effects including Wake Turbulence, Thermals and Up/Down Drafts
- Editable Station Databases
- Voice ATIS and FlightWatch weather reports

- Comprehensive Flight and Weather Planning, Route Briefing and .PLN Import Support
- Manual Weather Configuration Utility
- Weather Finder tool to locate any kind of weather conditions
- Universal Graphics add-on compatibility
- Much, much more!

The Important Stuff

If you're not inclined to read this User Guide in its entirety, please do at least take the time to read through this chapter for very important information regarding Active Sky 2012.

FSX Limitations

FSX has a few limitations and bugs in its weather depiction and interpolation processes. These limitations should be understood, so that your results given certain options or processes become more expected, and so that you can better tune FSX and AS2012 for the best experience possible given your individual needs. These limitations are discussed in the following categories:

Haze Layer Elimination

The haze layer in FSX, by default, is an effect which places a view of a semi-opaque cirrus overcast texture near the surface. The lower the visibility, the more opaque the layer is shown, but only up to a fairly-thin maximum. At the outer edges of your scenery view, at approximately 50 miles, the effect is "rounded" around your location, so that this layer appears as a "ring" of haze which follows the aircraft. Many users find this effect undesirable, and in AS2012 we have automatically removed the haze layer in all integrated Cirrus cloud graphics. This automatic removal of the haze layer provides a more consistent experience and prevents problems when using other graphics add-ons in conjunction with AS2012.

Fog Layers

Since the haze layer is removed, there is no external depiction of low visibility automatically provided (you will not see haze when looking down from above). Instead, Fog Layer Generation is provided (option), which has been enhanced for AS2012. This injects an automatic cloud layer near the surface when the visibility is reported less than 3SM, providing a visual representation of "fog" when viewed from above. New options in AS2012 include "Use Stratus for Fog Layer Generation", which can customize the appearance of these generated fog cloud layers. When checked, stratus clouds will be used (instead of cumulus), which provides better coverage in most circumstances.

Winds Aloft

FSX's internal wind interpolation processes are known to be problematic. Wind directions can instantly shift and depict incorrect values up to 180 degrees off. Through much effort of research and trial and error, we have found a means of providing accurate directions and preventing most shifts. This solution for winds aloft, when coupled with the realistic global forecast winds data in AS2012, provides the most realistic experience for high-altitude flight, and is the only known way to achieve accurate planning and depiction of winds aloft. This solution, however, does have some specific considerations. Direct Weather Control, as we call it, provides a "full force" of FSX's ambient weather conditions defined by AS2012. This requires using the "global" weather mode of FSX's internal weather engine, and using proprietary techniques to inject correct ambient wind, visibility, temperature and barometric pressure along with a semi-station-based cloud depiction. Direct Weather Control is turned on by default.

Direct Weather Control

There are important considerations when using Direct Weather Control, since this mode controls global ambient weather conditions at all times. The first consideration is that FS ATIS (and the FSX wx screens) will be reporting a single global ambient set of conditions that exist at your aircraft's position and altitude. This includes your high-speed winds aloft. FS ATIS will not report the actual surface conditions that will be depicted. In order to receive actual surface conditions, the AS2012 ATIS/Flightwatch Voice features should be used, by setting your COM radio to 122.00 or 122.02. Second, your cloud depiction will be mostly "generalized" for the current given set of conditions (i.e. you may not see a cloud buildup out in the distance if it is clear at your position, until you are close to the cloud buildup). We've provided some semi-station-based cloud depiction techniques to depict closer-range variation in clouds as much as possible. In addition, it should be known that the conditions you are flying over are "remembered", so even if you fly into new conditions, if you look back, you will see your old conditions in the distance similar to station-based depiction modes.

Depiction Modes

Direct Weather Control is one of three depiction modes available in AS2012. Each one has certain advantages and drawbacks. It is recommended to read the relevant information (in the Using AS2012's Options Screen section of this User's Guide). Using Standard Depiction mode provides results similar to FSX-default live weather. Smooth Cloud transitions provides results similar to past Active Sky products including ASX and ASA. The default mode is Direct Weather Control, and provides the most accurate overall depiction possible along with smoothing for all ambient weather parameters.

Visual Artifacts

Certain visual artifacts or unwanted effects can be experienced within FSX in certain modes of operation. When using Standard depiction mode, each station updated (which occurs every few minutes regardless of download update rate) will result in a very quick “flicker” of the upper atmosphere. Other depiction modes do not exhibit this behavior. With certain video cards and driver versions, Thermals and Updrafts/Downdrafts can cause a flicker of certain cloud sprites within the visible cloud scenery. Disabling thermals and up/downdrafts prevents this.

Interpolation

AS2012 implements Advanced Interpolation, using closest station data in all directions around any station or location which does not provide actual data. This provides a realistic transition between actual-data areas. When you view weather reports in AS2012, you may see “RMK ADVANCED INTERPOLATION” appended to the METAR string. This indicates that either FULL or PARTIAL interpolation was performed to provide the data for that location. In the case of partial interpolation, certain elements may be missing from the original METAR (such as altimeter or visibility) and the conditions will instead be interpolated from other nearby data points, but using a heavy influence (weight) from the data that IS valid for that station. Please note that Advanced Interpolation uses the closest station in 4 quadrants of directions from the location. In some areas, the closest station in a given quadrant may be far away. In this case, the influence (weight) from that station’s data will be very minimal in the calculation, while the influence from nearby stations will be great. This provides realistic yet variable and unpredictable interpolated conditions, similar to the real world (where real locations without data are rarely linearly average compared to their closest valid data).

FSUIPC

FSUIPC is not used by Active Sky 2012 (we use SimConnect). However, we realize FSUIPC is installed on a wide range of systems and generally works great along side Active Sky 2012. Certain options/features of FSUIPC may conflict with AS2012 usage, however. It is recommended that the “Disable all weather settings” button be used to disable weather options. Registered FSUIPC users should enable wind smoothing (for further smoothing of winds and prevention of S-turns in certain aircraft), but should leave other items off (such as visibility graduation/smoothing).

S-Turns

Certain aircraft (such as PMDG 737NGX) are sensitive to turbulence and can exhibit autopilot s-turn issues with winds aloft. To prevent s-turns, reducing certain turbulence effects are required. Please see the included README.rtf (located in your AS2012 installation folder) for specific recommendations.

Getting Started

After installing Active Sky 2012, you can find the Active Sky 2012 shortcut on your desktop or within your Start/Programs Menu. Double-clicking the desktop shortcut will launch Active Sky 2012.

You may optionally install the XGauge weather gauge into your aircraft panels by using the XGauge Wizard Installation utility (Start/Programs/HiFi/Active Sky 2012 Menu). This can be done at any time while Flight Simulator X is closed.

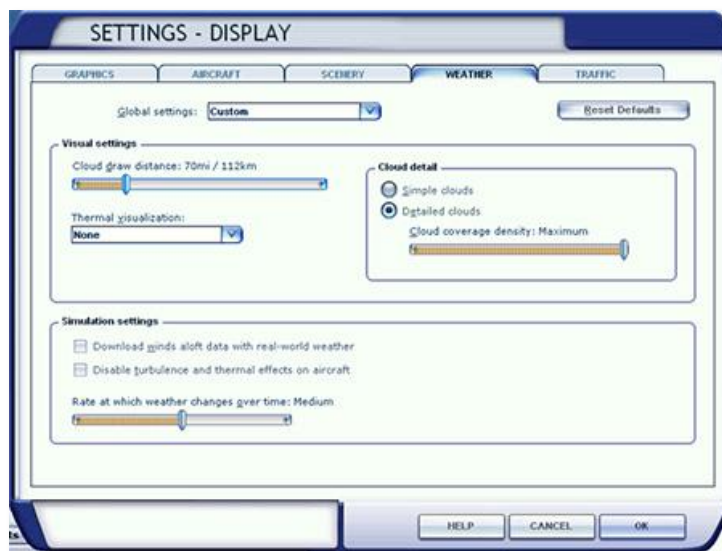
If you have a networked installation, where FSX runs on a different computer than Active Sky 2012, please read the Networking Configuration chapter to ensure proper configuration.

If you are using any other add-ons which provide weather depiction, such as SquawkBox, IVAO, etc, you should disable weather within those add-ons to avoid conflicts.

Configuring Flight Simulator X

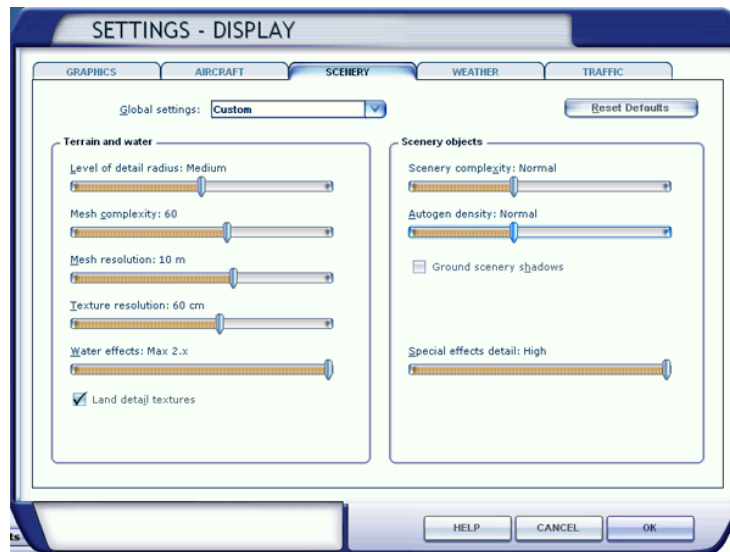
FSX will need to be configured for the best balance of graphics and performance. Essentially, any settings that you normally use in FSX with default weather should work fine. Do realize however that Active Sky 2012 can increase the complexity of weather scenarios and cause a further hit on performance when conditions dictate.

The most important settings relating to weather and performance are found in the Settings/Display/Weather menu within FSX:



- **Cloud draw distance:** Controls the maximum distance at which you will see cloud formations. The further the distance, the slower the performance (we recommend 60-70 miles on most systems, perhaps higher on very high-end systems).
- **Thermal visualization:** We recommend the most-realistic "None" setting here, but you may wish to enable visual cues to help you identify thermals. See the FSX documentation for more information.
- **Cloud detail:** Detailed clouds are highly recommended on all but the lowest-end systems.
- **Cloud coverage density:** We recommend the Maximum setting on all but the lowest-end systems. Lowering this setting will increase performance but at the cost of losing cloud density.
- **Download winds aloft data with real-world weather:** This setting does not affect Active Sky 2012 operation.
- **Disable turbulence and thermal effects on aircraft:** Check this option to disable all turbulence and thermal effects from FSX itself (may help with high-fidelity add-on aircraft autopilot s-turn issues).
- **Rate at which weather changes over time:** This controls how fast weather can "drift" from one set of conditions to the next, and also controls how fast clouds will form/dissipate within the area. Active Sky 2012 has an option which automatically controls this setting (defaults at 0%), so it is irrelevant what option you choose here.

Another important area for configuration is Settings/Display/Scenery:



Every setting here can have a dramatic effect on both quality and performance of your FSX experience. We recommend experimentation here to find the best balance for you.

The “**Water effects**” setting should be on Max 2.0 (all the way to the right) in order to see all the water effects and animations including waves. This results in a light/moderate performance hit compared to lower settings, but is highly recommended if your machine can handle it.

Configuring FSUIPC (Optional)

If you are using FSUIPC v.4 for FSX, we recommend using the “Weather Settings Off” button in the main Modules/FSUIPC menu within FSX.

You should consider disabling/minimizing FSX turbulence effects on aircraft which can cause problems (S-Turns) when using certain high-fidelity add-on aircraft. Active Sky 2012's own air effects will replace FSX's turbulence effects. The recommended settings are:

FSUIPC.ini settings:

TurbulenceRate=0.5,2.5

TurbulenceDivisor=40,40,80,80

FSX.cfg settings:

[Weather]

TurbulenceScale=0.500000

FSX Settings:

Disable All Turbulence Effects on Aircraft – Checked (Weather Settings)

Using Active Sky 2012

Once you are configured and ready to go, bring up Active Sky 2012 and FSX, in any order, and weather depiction will automatically start.

By default, Active Sky 2012 is in real-time live weather mode and will automatically download and depict the latest weather information every 10 minutes. There is nothing more you need to do in order to have realistic weather depicted at all times in all locations within FSX.

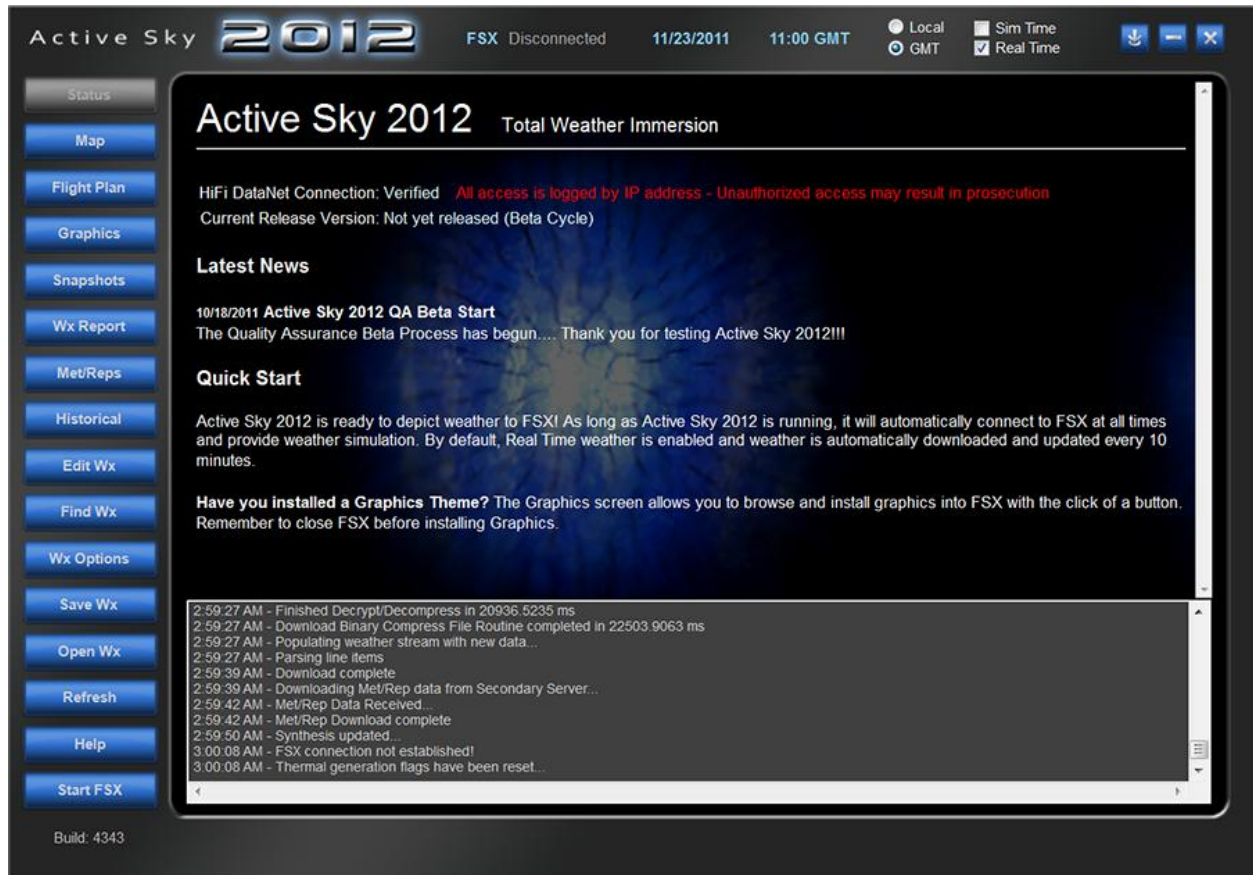
However, many features exist beyond the basic weather system that you should acquaint yourself with in order to get the best experience possible.

Startup Order Recommendations

While Active Sky 2012 and FSX can be started in any order for weather depiction, we recommend a specific startup sequence in order to obtain maximum realism and take advantage of all Graphics and Flight Planning features:

- 1) Ensure FSX is closed
- 2) Start Active Sky 2012
- 3) View the Map and Weather Report Screens while you plan your flight
- 4) Configure your Flight Plan, using the Map and Flight Plan Screens - You can also have Active Sky 2012 automatically build your route, or import a flight plan from another flight planning solution using the .pln FS9 or FSX flight plan format
- 5) Answer "Yes" when asked if you wish to install weather-influenced textures based on your average route weather conditions - you may alternatively install external "Snapshot" graphics at this time, or skip weather-influenced texture selections and manually install textures yourself
- 6) If you are not using weather-influenced texture selections, use the "Graphics" screen to select and install your desired graphics
- 7) Once your flight plan is loaded and ready, and graphics are installed into FSX, you are ready to fly
- 8) Start FSX and begin your flight!
- 9) Use Active Sky 2012's integrated planning, briefing, XGauge and visual mapping tools as you fly, enabling realistic weather avoidance and in-depth situational awareness

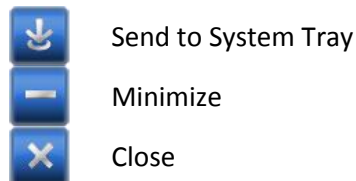
The Active Sky 2012 User Interface



Program Controls

You can move the Active Sky 2012 interface screen by clicking and dragging the top left (Active Sky 2012) portion.

At the top right, the three control buttons are:



Some users may notice an increase in simulator performance when running Active Sky 2012 in the system tray, where the user interface itself does not need to be running.

Main Status Indicators

Your **FS Connection Status** is shown at the top left just to the right of the Active Sky 2012 logo. Active Sky 2012 automatically attempts connection every few seconds until a connection is made, and will automatically re-connect if the connection is broken or reset.

The **Active Date and Time** is shown at the top middle area of the interface. This shows you the currently active time used within Active Sky 2012. This may be the current time (in real-time mode), your simulator time, or a historical time.

You can use the "**GMT / Local**" selector to choose which format to show your active time in. GMT time (also known as UTC or Zulu time) is what aviators use to have a standardized time regardless of current local time zone.

When "**Force to Real Time**" is checked, your time will always be synchronized to real/live time.

When "**Force to Sim Time**" is checked, your time will always be forced to the time set in FS (minimum date January 1, 2007).

All weather engine processes depend on the currently active date/time. Please make sure you are aware of your settings here to get the results expected. Normally, Force to Real Time is recommended.

There are 3 **Activity Indicators** at the very bottom of the program that indicate the activity for the 3 main repeating processes within Active Sky 2012:

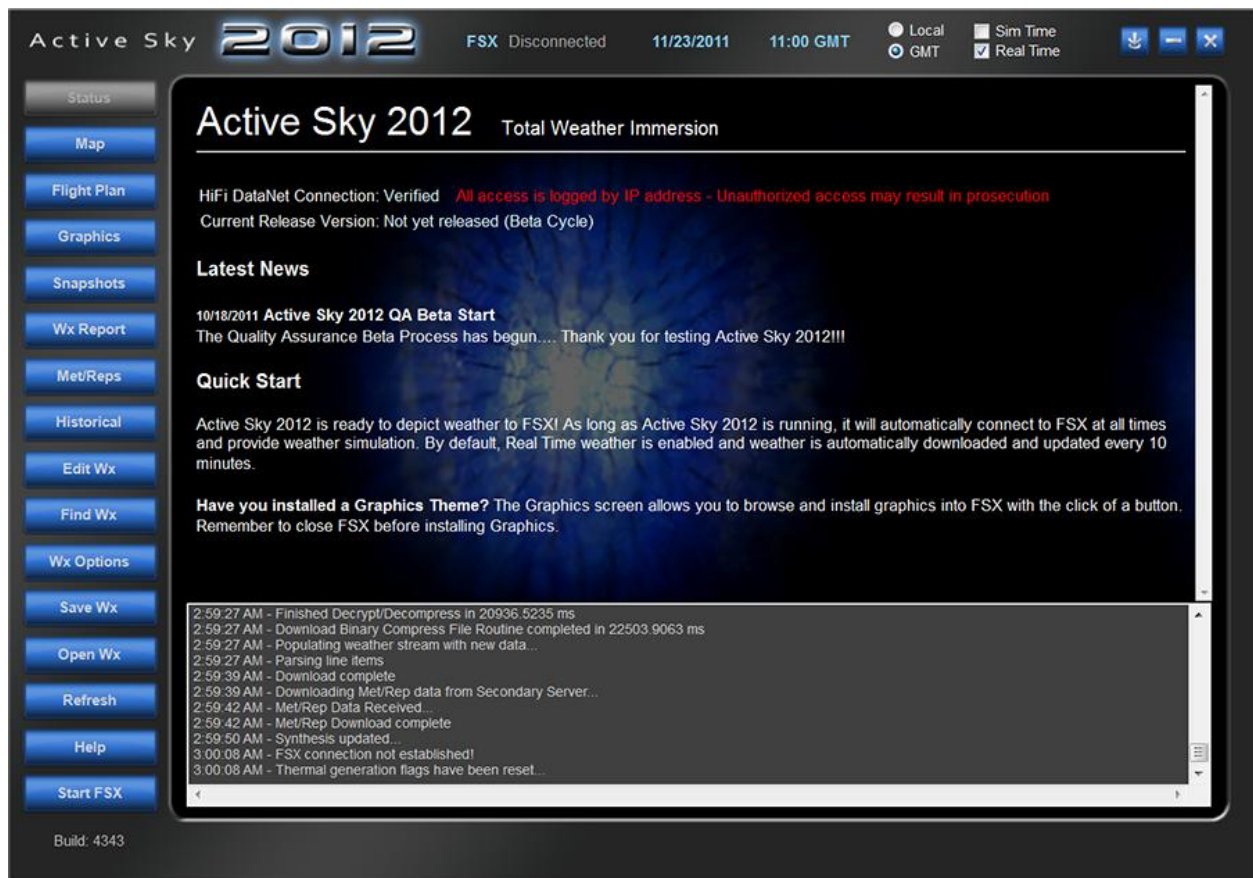
- **Synthesis:** Process which takes raw weather data and synthesizes it into usable weather parameters
- **Depiction:** Process which sends weather data from Active Sky 2012 and injects it into FS9/FSX – This indicator will be lit at most times as Active Sky 2012 constantly communicates with FS and controls the weather environment
- **Download:** Process which downloads new weather from the HiFi DataNet X Weather Servers

These are visible when each process is active. When the processes are inactive the indicators are not visible.

Navigation Buttons and Screens

Click on the blue navigation buttons along the left side of the interface to bring up the various screens of Active Sky 2012.

Status



The Status screen shows your current server connection status and system news. New version availability and other important and useful information is listed here. Basic log information is shown at the bottom, indicating what the weather engine is doing at all times.

Map



The Map Screen is where you can view all your weather and route information in a graphical format. You can also enter, import or build a flight plan, in addition to adding or removing waypoints. Waypoints can also be clicked and dragged from the Map to the Route window (if a flight plan is loaded), or clicked and dragged to a new location within the map itself. Finally, you can configure preset weather by dragging and dropping it right on the map.

This should be your first stop when exploring Active Sky 2012, and is the preferred starting point in flight and weather planning. For example, you may want to look at your planned departure and destination areas, and look for weather hazards along your route of flight. Then configure your flight plan and make changes as necessary.

At the top left is your route display, and shows all your waypoints and important details like distance, heading to fly and estimated time enroute. Press **"New Plan"** to manually enter, import or automatically build a flight plan. Highlight a waypoint and press **"Ins"** to insert a new waypoint above the current position. Highlight a waypoint and press **"Delete"** to remove that waypoint. You cannot add a waypoint above your departure or remove a departure/destination/TOC/TOD waypoint. To edit the departure and/or destination, use the **"New Plan"** button. Press **"Details"** to view your full flight plan and route briefing information in the [Flight Plan Screen](#).

Within the route list, you can click on a waypoint item and the map will automatically center on it.

Double-clicking an item will bring it up in the [Wx Report Screen](#).

You can drag waypoints directly into your flight plan route window. Simply find the station or point you want to add, and click and drag it into the desired position in the route list. If you are adding an Airport, NDB or VOR the station details will be used. If adding a custom point, the waypoint will be created and named "AS" with a 3-digit number suffix that increments for your flight plan (i.e. AS000, AS001, etc.). All changes to your flight plan will occur immediately and you'll see the results directly in the route list and the map itself.

If you'd like to move a waypoint, for example to traverse a safer path around a line of thunderstorm cells, you can simply drag it to the new location directly within the map window.

Departure, Destination, Alternate and TOC/TOD waypoints cannot be moved or deleted. Click the "**New Plan**" button and clear your plan to change these items.

Flight Plan

Departure ID: ICAO

Destination ID: ICAO

Alternate ID: ICAO

Cruise Altitude: FL/FT

Cruise Speed: KTAS

Climb Rate: FPM

Descent Rate: FPM

Routing Type: Direct/GPS
 VOR to VOR
 VOR and NDB
 Existing Waypoints

Options: Calculate TOC/TOD Waypoints

You can use Active Sky 2012's internal flight planning features to build your plan, or use another flight planning solution and then import your .PLN file. Once processed, you can edit waypoints as required. Flight plans are not required, but are recommended for increased realism.

The above window will be shown when you click "**New Plan**". Simply enter the desired Departure and Destination airports using valid ICAO airport identifiers (i.e. KLAX = Los Angeles International). To import a flight plan, click the "**Import**" button. FSX and FS9 flight plan files are supported (.pln).

The additional flight parameters including Alternate, Cruise Altitude, Cruise Speed, Climb Rate and Descent Rate are optional, but will result in increased accuracy of flight plan calculations, especially if using TOC/TOD waypoints.

Active Sky 2012 will automatically build your route if you change the "**Routing Type**" to "**VOR to VOR**" or "**VOR and NDB**". Use "**Direct GPS**" for simple Departure to Destination direct routes. "**Existing**

Waypoints will be forced when importing a plan or when making changes to an existing plan. Use the **“Clear”** button to enter a new plan including new Departure and Destination IDs and routing type.

Please keep in mind that the automatic routing will not perform well in certain situations including polar routes or routes that skirt ocean and land boundaries for long distances. If using automatic routing, you always have the option of reviewing and modifying your waypoints, which is very easy within the Map or Flight Plan screens.

Check the **“Calculate TOC/TOD Waypoints”** box to have Active Sky 2012 create “pseudo” waypoints representing the top of climb and top of descent. The accuracy of the calculations depends on entering the proper altitudes, speeds and climb/descent rates, and then matching those parameters during your flight.

You can change a previous loaded Flight Plan at any time by using the **“Flight Plan”** button from the main menu or **“Details”** from the Map Screen. Changes permitted include Cruise Speed, Climb Rate, Descent Rate and Cruise Altitude. To change Departure, Destination, Alternate or Plan Type, you must **“Clear”** your plan and enter a new one. You can cancel any changes with the **“Close”** button.

When you're ready, hit the **“Process”** button and your flight plan will be processed.

After processing, Active Sky 2012 will ask if you wish to install weather-Influenced Graphics textures for your computed “Route Average” weather conditions. Weather-influenced graphics are automatically selected variants that have been identified as appropriate for your current weather. FSX must be closed during Installation in order to update the related graphics files.



You can install AS2012 Integrated Graphics, which will be specially built with applied imaging for your weather conditions, install Snapshot graphics, or choose to install nothing by pressing the **“Cancel”** button. Press **“OK”** after making your selection if you wish to install graphics.

Clicking **‘OK’** will instruct Active Sky 2012 to make these wx-influenced selections and install them into FSX automatically.

Under the Route details, the **Drag and Drop Wx** area allows you to drag and drop your custom weather files onto the map. Above the list of preset weather items there is the range control consisting of a **“+”**

and “-“ button which will increment or decrement the range that the weather will be applied to from the location of the drop. The range will be displayed in the textbox between the buttons and will range from 5nm to 5000nm, any range greater than 5000nm will be considered as global weather.

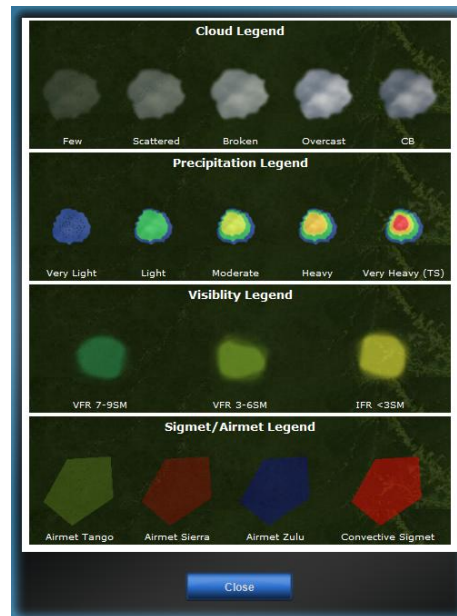
Simply click and hold down the left mouse button on the weather file you wish to use, drag the file across to the location on the map where you wish the weather to be centered - then release the button. This will drop the weather onto the location you selected. The weather from the preset will now be applied to all stations within the range specified.

Note: The greater the range selected the longer it will take for the processing of the selected weather. You can create your own weather preset files using the [Edit Wx](#) screen.

The “**Map Gamma**” slider allows you to adjust to amount of general brightness of your map image. Slide to the left to decrease brightness, and to the right to increase brightness.

Above the Map window, The “**Seek**” field and button is used to find any ICAO station (Airport, Weather Station, NDB or VOR). Type in the station, hit the button and the map will center on that item (if it is found). *In the case of multiple VOR or NDB stations, only the first one found matching that ID will be recalled.*

The “**Legends**” button brings up a helpful legend indicating what each graphical overlay icon represents.



The main map view is shown on the right with the map controls and available along the top, bottom and sides. **Left-Click directly on the map** to re-center the map on that position. **Left-Click on any reporting station twice** to bring up the Report screen for that station. While editing your Flight Plan / Route, you

can select a route waypoint and then **Right-Click** a station on the map to insert that station above the current route position.

Along every edge and corner is a directional button that allows you to **"Pan"** the map in the direction specified.

"Lock to aircraft position" keeps the map centered and locked on your current aircraft position (if FS Connected).

At the right side of the Map window are the **"Zoom"** controls. Zoom in and out with the "+" (zoom in) and "-" (zoom out) buttons. You can also use the slider, with the top being "zoomed" all the way in, and the bottom being "zoomed" all the way out. The current visible Range is shown at the top right of the map window. There is a 5nm minimum and 5000nm maximum zoom range, with most overlay graphics having a maximum display range of 3000nm.

The round button in the bottom right area of the map screen (under the East "Pan" button) is used to center the map on the current aircraft position. This will not "lock" to the aircraft position.

"Winds", located in the lower left area of the map window, allows you to adjust which altitude level is shown for the Winds overlay. Click the "+" button to increase the altitude level, and the "-" button to decrease the altitude level. Shown in hundreds of feet (i.e. 300 = 30,000ft).

Below the map view are the **Overlay Toggle Buttons** which turn on and off certain visual elements of the map. You may need to use these when zooming in or out to different zoom levels if the display becomes too "cluttered".

Stations: Shows all weather stations (not airports). Weather stations are the locations that actually report weather information or have interpolated weather information provided.

Airports: Shows all airports (not stations). Airports can have weather stations located at or adjacent to airports, but this is not always the case.

VOR/NDBs: Shows all VORs and NDBs. When you hover your mouse over each station a popup will appear giving you information about the station such as Frequency, Latitude and Longitude, elevation (in feet) and Station name. This will be invaluable as it will mean you do not have to leave the screen to obtain this information for your flight planning.

Route: Graphically shows your route based on the flight plan specified (use the Flight Plan Screen to specify a flight plan).

Clouds: Shows a graphical indication of cloud coverage.

Precipitation: Shows precipitation including rain and snow.

Visibility: This will show areas with less than 9SM visibility with color-coded circles.

Winds: Shows the wind direction via arrow icons for the currently specified **Winds Level**.

Met/Reps: Displays graphical boundaries of current Sigmet and Airmet reports available at the current time. You will also be able to see any Pireps current within the map range selected.

Hovering over any station, airport, VOR, NDB, Airmet or Sigmet will bring up a pop-up display window showing the item's name, description, current conditions and other relevant information.

NOTE: If multiple layers/items are shown on the map, the top-most item is displayed in the popup.



Map Window Mouse Commands Recap:

- Clicking on any station on the map will center it and select it. Clicking it again will bring it up in the weather report screen.
- When you have a flight plan loaded, you can simply click and drag new waypoints into your route at the desired location. Waypoints are inserted above the chosen line item.
- You can also move an existing waypoint by clicking on waypoint icon within the map window, and dragging it to any new location on the map.
- Right-clicking on any station will automatically insert that station as a waypoint, inserting it above the currently selected waypoint.
- Departure, Destination, Alternate and TOC/TOD Waypoints cannot be moved. Use the “**New Plan**” button to change these items.

Flight Plan

Active Sky 2012 FSX Disconnected 9/17/2011 03:33 GMT Local GMT Sim Time Real Time

Departure ID: KSNA Cruise Altitude (FT): 25000
 Destination ID: KRNO Cruise Speed (KTAS): 328
 Alternate ID: KSAC Waypoints: 4

Way Point	ID	Dist	True	Mag Var	Wind Dir	Wind Spd	Temp	GS	TAS	Hdg to Fly	ETE	
4	NID	106	342	13.3	297	32	-21.3	305	328	325	20	
5	BIH	92	333	14.1	289	35	-22.0	302	328	315	18	
	<TOD>	50	333	14.1	289	35	-22.0	207	216	317	14	
	DEST				300	11	20.0					
	Totals	380									81	
	ALT	KSAC	100	234	14.2	300	9	19.3	323	328	222	18

Show Surface Wind Information for Dep, Dest and Alt (vs. Aloft)

Waypoint	Wind Dir	Wind Spd	Temp	GS	TAS	Hdg to Fly	ETE
NID	314@30(16)	310@30(12)	260@13(3)	291@23(-6)	291@22(-1)		
BIH	289@39(-38)	285@42(-48)	276@42(-59)	271@34(-60)	251@30(-63)		
	284@03(15)	218@03(12)	266@08(2)	285@26(-9)	289@35(-22)		
	281@43(-39)	276@48(-48)	271@51(-59)	277@34(-60)	250@32(-62)		
KRNO	224@06(15)	245@06(12)	278@15(2)	284@33(-12)	292@45(-24)		
	299@52(-40)	298@52(-50)	288@47(-57)	281@46(-60)	257@32(-60)		

Average Winds at 25000 = 288@27

Airmets and Sigmet

Airmet TANGO - 9/17/2011 9:45:00 AM
 70NW POI TO 40NNE POI TO 60SW YSJ TO 60SW BGR TO YSC TO 70NW POI
 MOD TURB BLW 089. CONDS CONTG BYD 09Z ENDD 12-15Z.

Airmet TANGO - 9/17/2011 9:45:00 AM

Build: 199

Here in the Flight Plan Screen you can specify your flight plan and view the weather-related route details on a waypoint-by-waypoint basis. There is also a textual “Dispatch” weather report given. Before you fly, you can print out your full briefing, print a concise navigation log, and/or use the integrated planning and mapping features to get updated route details and the latest weather information at all times.

Starting at the top, the currently specified flight plan details are shown. Click the “**Enter Plan**” button in order to manually specify, edit, import or build a flight plan.

Flight Plan

Departure ID ICAO Routing Type Direct/GPS
Destination ID ICAO VOR to VOR
Alternate ID ICAO VOR and NDB
Cruise Altitude FL/FT Existing Waypoints
Cruise Speed KTAS
Climb Rate FPM Options Calculate TOC/TOD Waypoints
Descent Rate FPM

You can use Active Sky 2012's internal flight planning features to build your plan, or use another flight planning solution and then import your .PLN file. Once processed, you can edit waypoints as required. Flight plans are not required, but are recommended for increased realism.

The above window will be shown when you click **“New Plan”**. Simply enter the desired Departure and Destination airports using valid ICAO airport identifiers (i.e. KLAX = Los Angeles International). To import a flight plan, click the **“Import”** button. FSX and FS9 flight plan files are supported (.pln).

The additional flight parameters including Alternate, Cruise Altitude, Cruise Speed, Climb Rate and Descent Rate are optional, but will result in increased accuracy of flight plan calculations, especially if using TOC/TOD waypoints.

Active Sky 2012 will automatically build your route if you change the **“Routing Type”** to **“VOR to VOR”** or **“VOR and NDB”**. Use **“Direct GPS”** for simple Departure to Destination direct routes. **“Existing Waypoints”** will be forced when importing a plan or when making changes to an existing plan. Use the **“Clear”** button to enter a new plan including new Departure and Destination IDs and routing type.

Please keep in mind that the automatic routing will not perform well in certain situations including polar routes or routes that skirt ocean and land boundaries for long distances. If using automatic routing, you always have the option of reviewing and modifying your waypoints, which is very easy within the Map or Flight Plan screens.

Check the **“Calculate TOC/TOD Waypoints”** box to have Active Sky 2012 create “pseudo” waypoints representing the top of climb and top of descent. The accuracy of the calculations depends on entering the proper altitudes, speeds and climb/descent rates, and then matching those parameters during your flight.

You can change a previous loaded Flight Plan at any time by using the **“Flight Plan”** button from the main menu or **“Details”** from the Map Screen. Changes permitted include Cruise Speed, Climb Rate, Descent Rate and Cruise Altitude. To change Departure, Destination, Alternate or Plan Type, you must **“Clear”** your plan and enter a new one. You can cancel any changes with the **“Close”** button.

When you're ready, hit the **“Process”** button and your flight plan will be processed.

After processing, Active Sky 2012 will ask if you wish to install weather-Influenced Graphics textures for your computed "Route Average" weather conditions. Weather-influenced graphics are automatically selected variants that have been identified as appropriate for your current weather. FSX must be closed during Installation in order to update the related graphics files.



You can install AS2012 Integrated Graphics, which will be specially built with applied imaging for your weather conditions, install Snapshot graphics, or choose to install nothing by pressing the "Cancel" button. Press "OK" after making your selection if you wish to install graphics.

Clicking 'OK' will instruct Active Sky 2012 to make these wx-influenced selections and install them into FSX automatically.

"Add Waypoint" will allow you to add a new waypoint, inserting it just above the currently selected waypoint in the data grid. Simply click on any waypoint (except departure) and then click on "Add Waypoint". You'll be asked the ID and the waypoint will be automatically added and the flight plan will be refreshed.

"Delete Waypoint" will delete the currently selected waypoint. You cannot delete departure or destination waypoints. To change departure or destination, use the "Enter Plan" button.

Press the "Refresh AI Aircraft" button to update the current weather for all AI aircraft. This ensures that the AI aircraft conform to the current weather conditions supplied by Active Sky 2012 and land and depart on the expected runway.

"Refresh Plan" will update the information based on a new specified route or updated weather conditions.

"Print All" will print all the information shown on this screen

"Print Log" will print just the log information (Nav Log) shown on this screen.

"Export Plan" will save your current plan as an FSX .PLN file that can be read by FSX or any other flight planner. Please note that the startup location in these .PLN files, that FSX will use if you choose to

“Move your aircraft to the Departure location”, may not be correct. We recommend manually setting your parking spot or runway within FSX with AS2012-generated plans.

“**Map**” will bring up the Map Screen focused on your departure location and showing your route of flight. You can easily modify your route waypoints in a visual format with the Map screen.

“**Show Surface Wind Information for Dep, Dest and Alt (Vs Aloft)**” - Check this box if you would prefer to view the surface wind information for your Departure, Destination and Alternative airports rather than the aloft wind information. Note that this checkbox also will influence TOC/TOD calculations. We recommend leaving this checked in most cases.

Graphics



The Graphics Screen is where you manage all of Active Sky 2012's graphic enhancement features including:

- Creating a Theme
- Selecting an existing Theme
- Browsing available Categories and Texture Variants
- Selecting a Texture Variant to use in a Theme
- Recoloring Texture Variants
- Installing a Theme into FSX
- Randomly Selecting Texture Variants
- Selecting Textures based on Wx Influence
- Configuring Graphics Settings

Using the Graphics features of Active Sky 2012 is easy. Simply enter the graphics screen, browse the available categories, sub-categories and texture variants and make your selections. When you are finished, press the **"Install"** button to install these textures into FSX.

Graphics Screen Items

The “**Home**” Screen is accessed at any time by pressing the Home button at the top right of the Graphics screen.

Pressing “**Randomize**” will randomly select texture variants automatically.

Pressing “**Settings**” will bring up the Graphics Settings screen, which is described in detail below.

Pressing “**Wx Influenced**” will automatically select textures based on your current location and current weather conditions, then install these textures into FSX instantly. FSX must be closed during Installation in order to update the related graphics files.

Selecting a “**Theme**” will automatically load that theme’s texture variants. The last theme loaded is automatically selected at startup. From this point, any changes you make such as making selections, randomizing, or choosing wx-influenced selections, will be temporarily recorded but not saved until you press the “**Save**” button. The “Default” theme cannot be overwritten.

The “**New**” button will allow you to create a new theme using the existing texture variant selections.

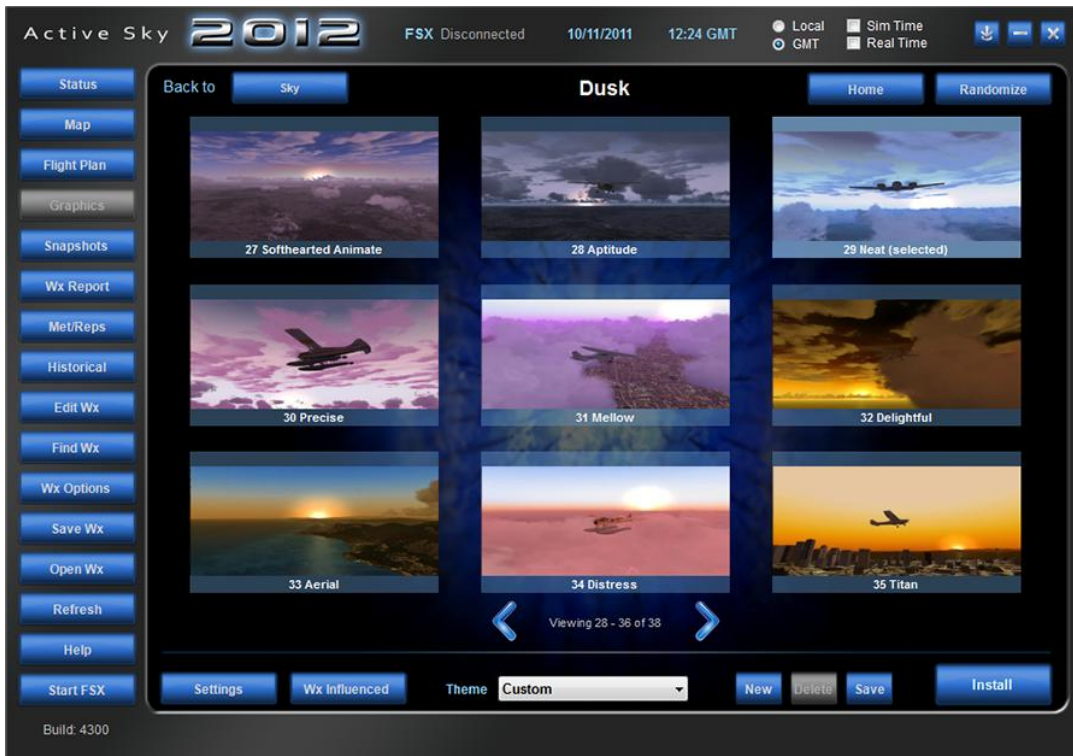
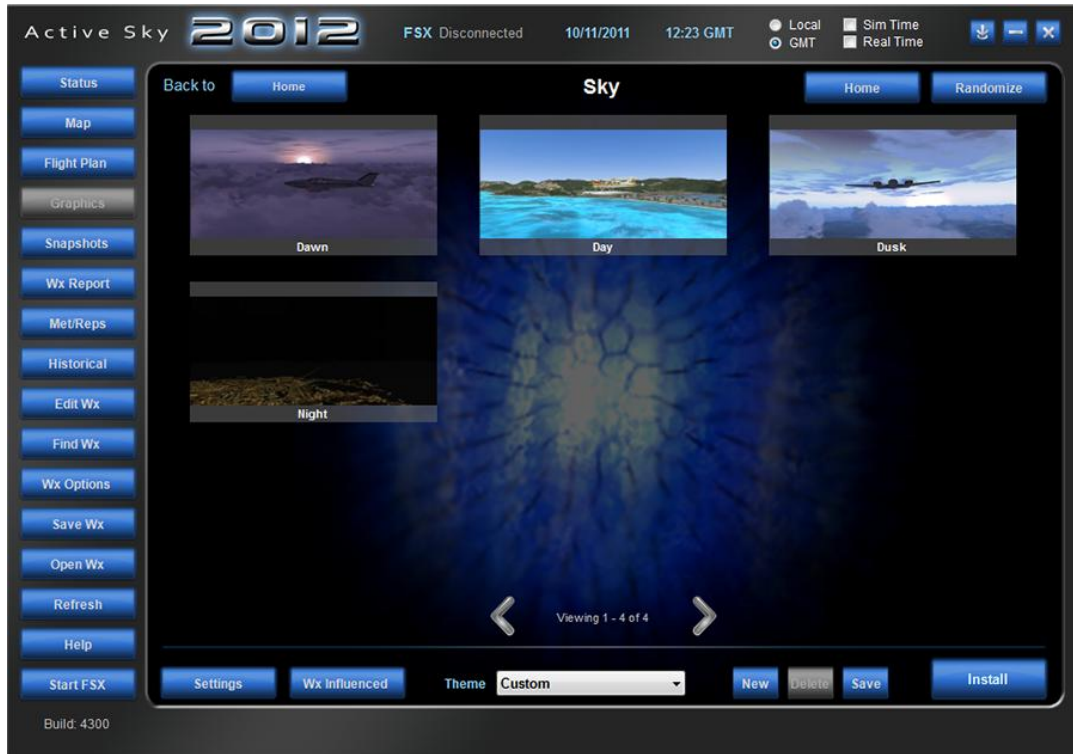
“**Delete**” will delete the existing Theme. You cannot delete the default theme.

“**Save**” will save/update the existing theme with any new texture variant selections you’ve made.

The “**Install**” button finally installs all the texture variants currently selected directly into FSX. It can take several minutes to install a theme, especially when using higher-resolution settings, as the graphics files being copied and manipulated are extremely large. FSX must be closed during Installation in order to update the related graphics files.

ACTIVE SKY 2012 USER'S GUIDE

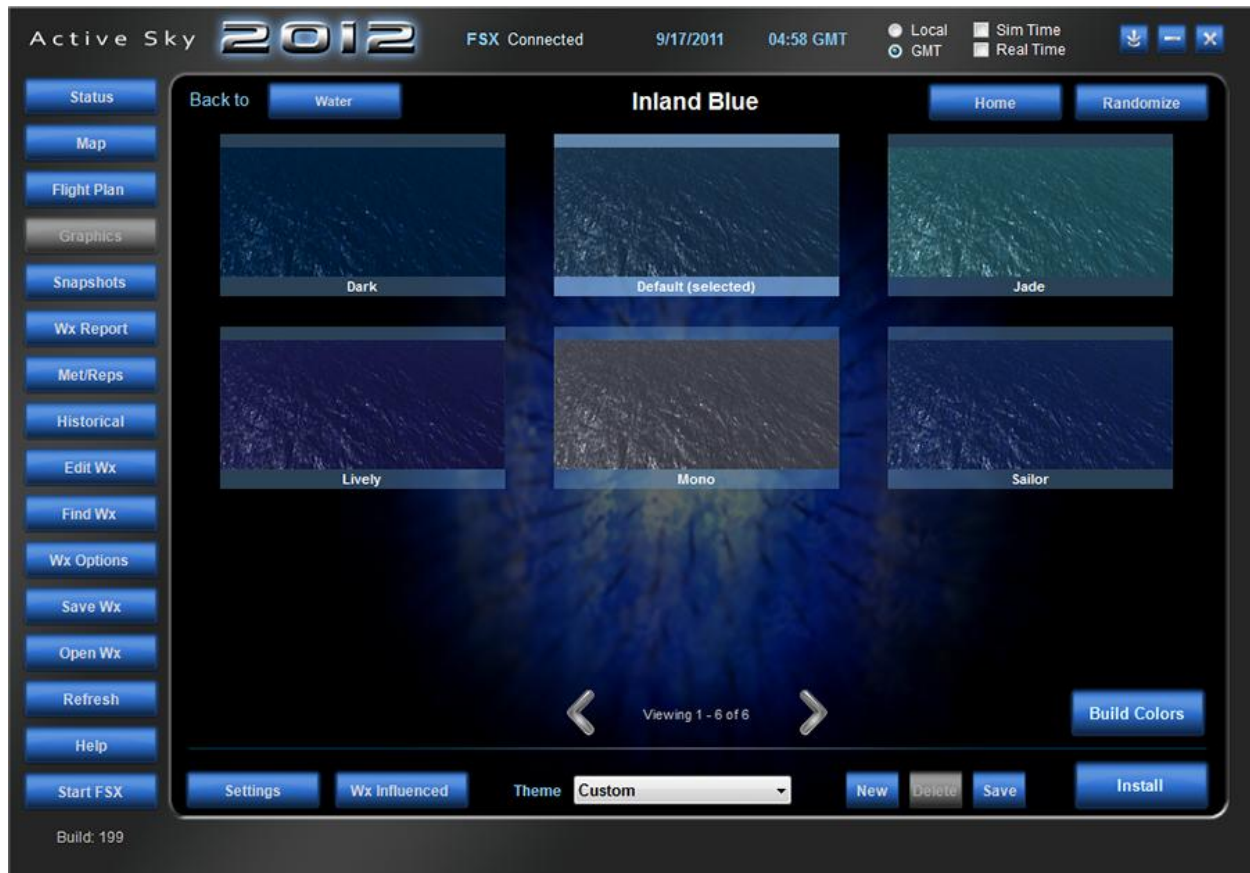
Clicking on any shown Category, Sub-Category or Variant in the main Graphics screen will “drill down” into that item. Here we have clicked on Sky and then Dusk:



Graphics - Build Colors

Because of the large size of water texture files, we have included a single default variant in the following Water categories:

- Inland Blue
- Inland Brown
- Ocean



You can automatically generate a series of new preset color variations by using the **“Build Colors”** button found within water categories including:

- Water - Inland Blue
- Water - Inland Brown
- Water - Ocean
- Water – Tropical

Each “Build Colors” process will take approximately 5-10 minutes, except for Tropical, which can take up to 30 minutes.



It takes anywhere from 1-10 minutes to generate the new variations depending on the category. These are extremely large files that take time to process.

We recommend building these preset color variations in each of available Build Colors categories as well as creating your own new custom variations with the “**Recolor**” button. Once you have created new variations, you can assign “**Influence**” values used for wx-influenced selections. For example, you might create a dark and muddy water color that you want to be used in stormy/rainy conditions. Please see the [Influence](#) section for more information.

Graphics - Texture Variant Detail Screen

When you select a texture variant within a Category or Sub-Category, the detail screen will be shown.



The available items within this screen are:

The **“Back to”** button will send you back to the previous Category or Sub-Category.

The **“<”** button will display the previous texture variant within that Category.

The **“>”** button will display the next texture variant within that Category.

The **“Recolor”** button brings up the [Recolor Screen](#) which allows users to recolor certain graphics types.

The **“Influence”** buttons bring up the [Influence Screen](#), where you can customize the values used to make this item more likely to be chosen in specific weather conditions.

“Delete” is available when viewing a user-recolored variant. Click this button to delete that item (cannot be undone).

The “**Save Shot**” button is also available when viewing a user-recolored variant. Before using it, take a screenshot using your clipboard within FSX by pressing Alt-PrtScn. Then press this button and the screenshot will automatically be formatted and saved, replacing the old screenshot!

“**Preview Sound**” is shown when viewing Sound Category items. Click this button to start/stop the audio preview of that sound set.

Use the “**Select**” button to select this variant for your current Theme. The “**selected**” item within each Category or Sub-Category is shown in yellow with the **(selected)** suffix shown.

Graphics - Recolor Screen

From the Texture Variant Detail Screen, “**Recolor**” will bring up the Recolor Screen which enables you to recolor the existing texture variant and save it as a new variant. Recolor is available for the following items: All Clouds, Water and Sky textures. The Recolor screen is described in detail below.

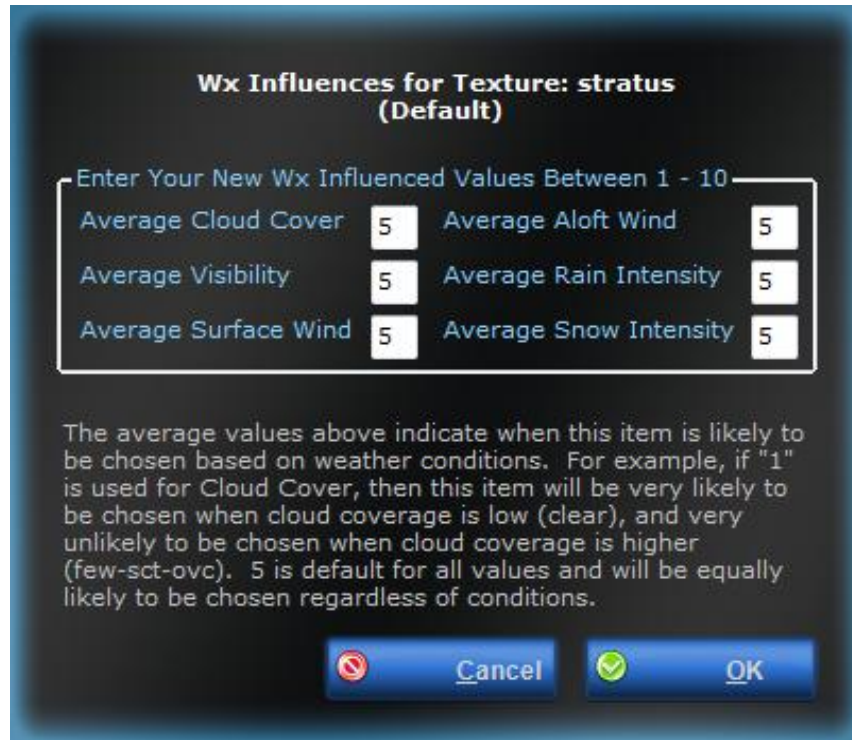


To use the Recoloring Screen, simply move the “**Hue**”, “**Saturation**”, and “**Brightness**” sliders to get the look that you want. For your convenience, the effect of your recoloring is shown in the “**New**” window by recoloring the screenshot for that item, with the original non-recolor screenshot shown next to it under “**Original**”. Focus on the the color of the item you are recoloring. The background of the screenshot will also change (i.e. Sky, Terrain), simulating the altered lighting, but your adjustments are applied only to the category you are recoloring in.

Once you are satisfied with the look, enter a “**Name**” for your new item and press the “**Apply Recolor**” button. It can take anywhere from a few seconds to several minutes to process your recolor, with Tropical Water textures taking the longest. Once the recolor process is complete, your new item will be available.

Graphics - Influence Screen

Back on the Texture Variant Detail Screen, the “**Influence**” button brings up the weather-influenced values used to make selection determination when installing wx-influenced textures.



As the screen text indicates, the values used indicate when this item will be chosen as a “possibility” amongst all your textures.

As an example, if you have a texture item that would be best for “smoggy” conditions, these conditions can be identified with LOW Visibility and LOW Surface Wind speeds. Therefore, you would want to set the Average Visibility to “3” and Average Surface Wind to “2”. The other values should be left at “5” so that they have a neutral influence. In this example, when visibility is on the “3” side of the “1-10” scale, or approximately 4-5 miles visibility, this texture will be a likely candidate for selection, pertaining to visibility.

When Active Sky 2012 makes wx-influenced selections, each Influence value in each Texture Variant is independently analyzed and compared to the weather conditions. A list of likely candidates is generated and then randomly selected. This provides influence as well as random variation.

Graphics – Settings Screen

Here you can select all your Graphics settings.

Graphics settings are automatically made active and are saved when closing Active Sky 2012.

There are two tab buttons shown at the top, “Graphics Settings” and “Install Options”.

Graphics Settings

These options are mainly related to performance. If you have a fast system and video card with plenty of video RAM, you can take advantage of higher-quality settings. To reduce the performance overhead related to weather and environment graphics, you can reduce either resolution or color quality to achieve the desired results.

The “**3D Cloud Resolution**” section is where you choose your desired 3D Cloud Resolution used in FSX (Cumulus, Stratus and Wispy cloud sprites). The higher the resolution, the better the quality and the heavier the performance hit. We recommend experimenting to find the ideal setting for you.

“**3D Cloud Image Quality**” can be 32 Bit or DXT5. Choose 32 Bit for higher quality and DXT5 for higher performance.

“**Cirrus Resolution**” sets the resolution for all Cirrus clouds. The higher the resolution, the better the quality and the heavier the performance hit.

“**Runway Features Quality**” can be 32 Bit or DXT5. Choose 32 Bit for higher quality and DXT5 for higher performance.

“**Water Color Resolution**” sets the resolution for all Water color (Inland Blue, Inland Brown, Ocean and Tropical). The higher the resolution, the better the quality and the heavier the performance hit.

In “**Water Waves Image Quality**”, choose between 32 Bit or DXT1 Format. 32 Bit is higher quality while DXT1 is higher performance.

“**Water Waves Resolution**” sets the resolution for Waves. The higher the resolution, the better the quality and the heavier the performance hit.

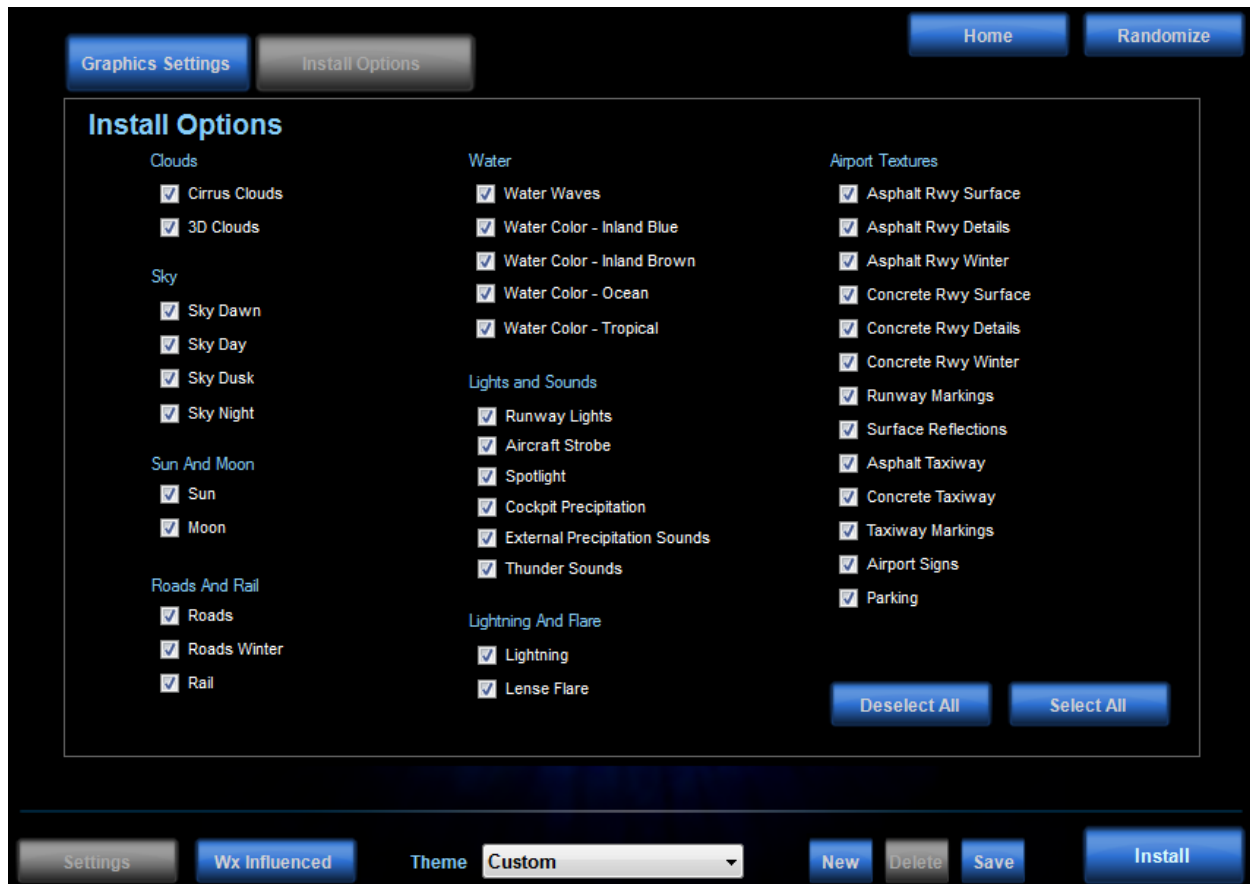
“**General Options**” has two checkboxes. “**Don't remind me to save changes**”, when checked, stops asking you to save theme changes before overwriting them, i.e. when loading a new theme. “**Launch FSX After Theme Install**” will load FSX as soon as all textures have been installed, after pressing the “**Install**” button.

In “**Backup Options**” you can select and restore any texture backup, or create a new one. On first run of Active Sky 2012 your existing FSX textures are backed up into a backup called “**initial_backup**”.

“**View Graphics Logs**” allows you to see particular log files associated with Active Sky 2012 Graphics operations.

The “**Check Files**” button scans all Active Sky 2012 graphics content files to ensure nothing is missing or corrupt.

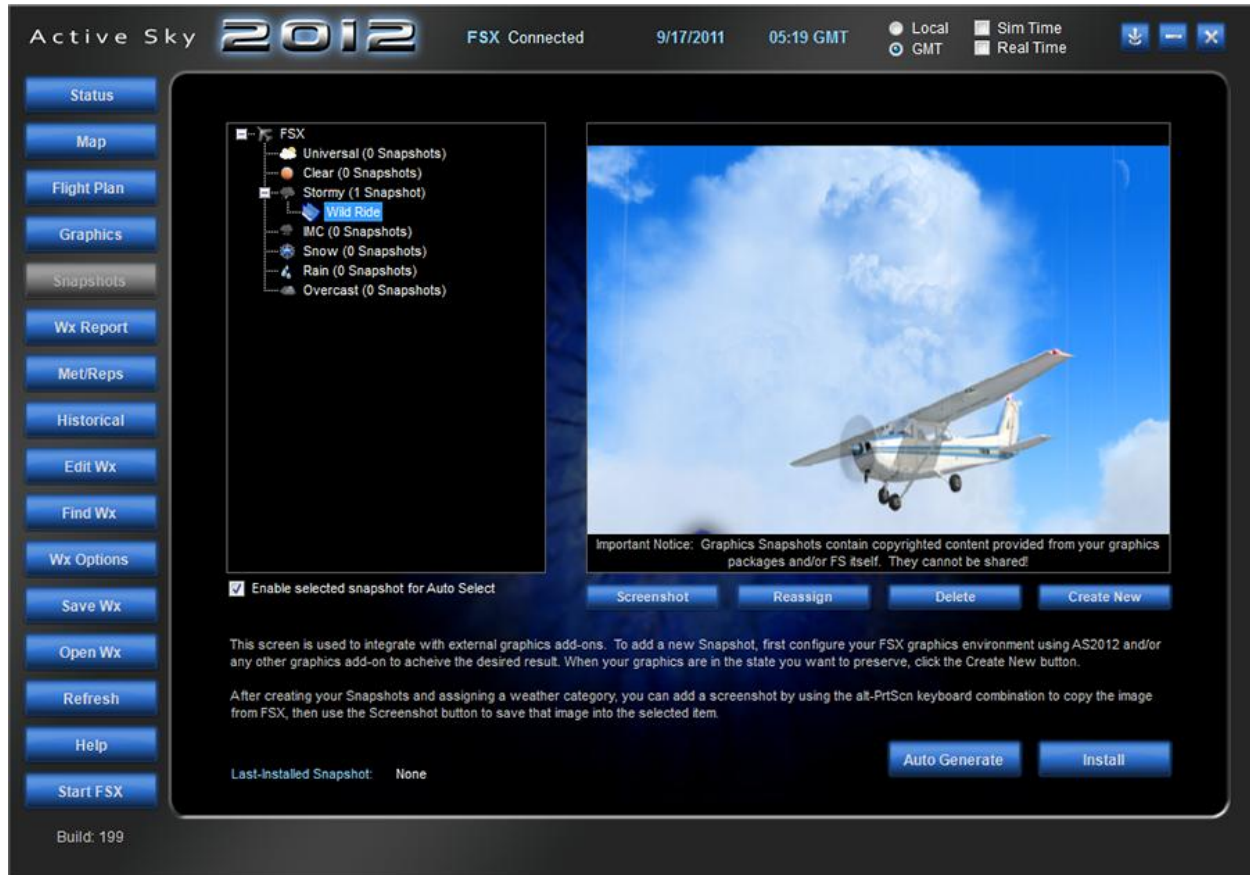
Install Options



Here you can turn ON or OFF any texture item. When an item is UNCHECKED, it WILL NOT be installed into FSX. This is a handy way to allow multiple graphics add-ons to work together. I.e. an Add-on can provide Cloud and Water Textures, and Active Sky 2012 can provide everything else. In this case, you would uncheck the Cloud and Water items, so that they are not overwritten when Active Sky 2012 installs its graphics.

If you find a particular texture variant that you especially enjoy and always prefer it over anything else, you can also use the install options to speed up the install process by excluding update of those items. For example, you could choose your favorite “Tropical Water” item, install it, and then uncheck the “Water Color – Tropical” install option. Now the Tropical Water textures will no longer be updated, and the installation process will take significantly less time.

Snapshots



Active Sky 2012 includes universal graphics add-on integration with an exclusive Snapshot system. Configure FSX graphics any way you'd like, using any add-on or combination of add-ons, then preserve the entire graphics state in **Snapshots** that can be installed directly through Active Sky 2012 in manual or weather-influenced mode!

“**Screenshot**” applies a capture screenshot from FSX in your clipboard to the current Snapshot item selected. First take a screen shot in FSX with the Alt-PrtScn key combination and then press this button to save it.

“**Reassign**” changes the currently selected Snapshot's wx-influenced category. The category chosen influences when this Snapshot will be selected during automatic Weather-Influenced installations.

“**Delete**” deletes the current Snapshot. Cannot be undone!

“**Create New**” creates a new Snapshot using the current graphics state of FSX.

“**Auto Generate**” will bring up the Auto Generate screen and allows you to automatically create various wx-influenced themes from Active Sky 2012’s Graphics system and then capture them, according to configurable wx-influenced categories and the amount to generate.

“**Install**” installs the selected Snapshot into FSX.

You will be able to have route-based weather averages applied in an automatic wx-influenced texture installation by entering a flight plan in the “[Flight Plan](#)”, “**Enter Plan**” screen.

Auto Generate Screen

Auto Generate Snapshots

Here you can automatically generate Snapshots of Active Sky 2012's integrated graphics.

We recommend generating at least 6 sets initially, with 20 recommended.

Number of sets to generate
7

Warning! It will take approximately 5 minutes for each set generated!

Select your wx-influenced category to generate and assign these sets to, or choose All Types.

Wx-Influenced Category
All Types

Click Start to begin processing. Active Sky 2012 will then automatically generate weather conditions and build appropriate graphics, which are then automatically imported as Snapshots and assigned. The process is repeated for the number of sets chosen.

Cancel Start

The “Auto Generate” button in the Snapshots screen brings up the Auto Generate Screen and allows you to automate the process of creating snapshots from Active Sky 2012’s integrated graphics. By creating these snapshots, you will be able to quickly and easily have your favorite graphics recalled within seconds. Snapshots are also available for automatic wx-influenced install during Flight Plan entry.

This process also supports the possibility of combining other graphics elements from other add-ons, by customizing your graphics installation options to exclude certain items from Active Sky 2012. Those excluded items will be left in the state last installed by other the other add-on(s), and only the items marked for installation will be updated and generated with Active Sky 2012’s graphics.

To Auto Generate graphics, simply enter the number of sets to generate, and which category to assign them to. You can assign them to “all” categories or a specific single category. When ready, press the “Start” button. The process will begin and is completely automated. You’ll be notified when the process finishes, and your new Snapshots will be available in the Snapshot screen.

Note that creating sets can take some time, up to 5-10 minutes per set depending on your graphics settings including Cloud Resolution. During the processing, Active Sky 2012 is specifying weather conditions which match the category(s), selecting and building graphics according to those conditions, capturing a snapshot of all graphics, and finally assigning the appropriate wx-influenced category. The process repeats for the total number of items requested. These automatically-generated sets are named “AutoSnapshot” with a number suffix, incrementing for each set.

Wx Report

Active Sky 2012 FSX Connected 9/17/2011 05:23 GMT Local GMT Sim Time Real Time

Lock to closest

ID Hickam AFB, Honolulu, HI, United States Position N21 19' 7" W157 55' 20"

Range 11 nm Last Updated 10:11 PM MagVar 9.920416

Wind Direction	Wind Speed	Visibility	Clouds	Precipitation	Temperature	Pressure
060	7KT	10+ SM	Few	None Reported	26.0 / 19.0	30.08 inches 1019 mb

3K	6K	9K	12K	18K	24K	30K	34K	39K	44K	49K
079@14 21.0	067@11 15.7	049@06 13.0	095@09 4.3	147@09 -7.2	192@12 -17.6	224@24 -34.4	234@36 -44.4	239@43 -54.9	236@29 -65.2	129@10 -72.1

METAR: PHIK 170503Z 06007KT 10SM FEW160 26/19 A3008 RMK ADVANCED INTERPOLATION

TAF: PHNL 170304Z 17031806 07015G24KT P6SM SCT030 SCT050 FM170500 06010KT P6SM FEW025 SCT045 FM172000 06014G22KT P6SM FEW025

Decoded textual weather for PHIK - Wind: 060 at 7 knots - Visibility: 10 SM (9999m) - Clouds: Few at 16000 feet - Temperature: 26.0C - Dewpoint: 19.0C - Precipitation: None reported - Altimeter: 1019 mb (30.08 inches)

Interpolation Refresh All

Build: 199

The Report Screen shows you a collection of various items of weather information for the station/airport you are interested in.

At the very top the checkbox "**Lock to closest**", when checked, will force this screen to always show the closest available station/airport's weather information.

The "**ID**" field allows you to specify any valid 4-letter ICAO weather station/airport code. Simply type the code into this field and the weather information will automatically update appropriately. Once a station is selected, its location, range and other information will be displayed.

Below this you'll find weather icons and specific weather conditions. This includes wind direction and speed, visibility, clouds, precipitation, temperature, pressure and winds aloft.

Further below, the METAR, TAF and Decoded Textual weather information is shown.

Press the "**Interpolation**" button to see interpolation details for any interpolated station (where actual weather data has not been provided).

Press the **“Refresh AI Aircraft”** button to update the current weather for all AI aircraft. This ensures that the AI aircraft conform to the current weather conditions supplied by Active Sky 2012 and land and depart on the expected runway.

Met/Reps

Active Sky 2012 FSX Connected 9/17/2011 05:28 GMT Local GMT Sim Time Real Time

Real-Time Airmets and Sigmets

Name	Message	Area	Issued	Valid Until
TANGO	MOD TURB BTN FL270 AND FL4...	20NNW HUH (49.2/-122.7) - 20...	9/17/2011 9:45:00 AM GMT	9/17/2011 4:00:00 AM GMT
ZULU	MOD ICE BTN 120 AND FL200. ...	BUF (42.9/-78.6) - 20S EWC (4...	9/17/2011 9:45:00 AM GMT	9/17/2011 4:00:00 AM GMT
ZULU	MOD ICE BTN FRZLVL AND FL2...	40SE ASP (44.1/-83.1) - 30SE ...	9/17/2011 9:45:00 AM GMT	9/17/2011 4:00:00 AM GMT
SIERRA	MTNS OBSC BY CLDS/BR. CON...	50WSW BKW (37.6/-81.7) - 30...	9/17/2011 9:45:00 AM GMT	9/17/2011 4:00:00 AM GMT
SIERRA	MTNS OBSC BY CLDS/BR. CON...	HNN (38.8/-82.0) - HNV (36.4/-...	9/17/2011 9:45:00 AM GMT	9/17/2011 4:00:00 AM GMT
SIERRA	MTNS OBSC BY CLDS/BR. CON...	20SW SAC (38.3/-121.7) - 20N...	9/17/2011 9:45:00 AM GMT	9/17/2011 4:00:00 AM GMT
SIERRA	MTNS OBSC BY CLDS/PCPN. C...	20ESE YDC (49.3/-120.1) - 20...	9/17/2011 9:45:00 AM GMT	9/17/2011 4:00:00 AM GMT
SIERRA	CIG BLW 010/VIS BLW 3SM BR...	YSC (45.3/-71.8) - 30NW ENE (...)	9/17/2011 9:45:00 AM GMT	9/17/2011 4:00:00 AM GMT

Real-Time Networked Pilot Reports

Issued	Aircraft Type	Position Text	Pirep	Latitude
9/16/2011 11:28:12 PM GMT	B767...	10 NM BRG 305 FROM KPLR AT...	LGT TURB FL360	033.56

Build: 199

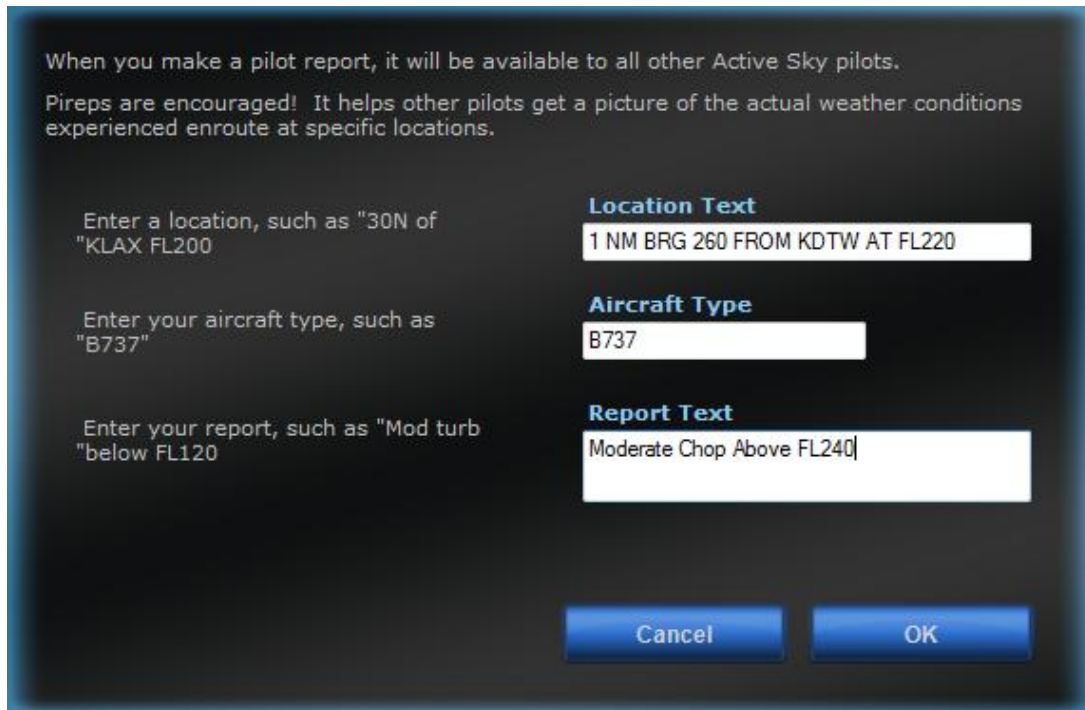
Make a Report

The Met/Reps screen will display a list of the current Sigmets, Airmets and Pireps.

Sigmets and Airmets are weather advisories that may include areas of icing, turbulence, severe thunderstorms and more. Pireps are Pilot reports are made by actual Active Sky users indicating the conditions experienced at a given location. As part of proper flight planning, these Met/Reps should always be reviewed and considered for your planned route of flight.

Hovering over each cell will display a popup of the full information in that cell. You can double click on a cell and Active Sky 2012 will take you to the Map Screen to view the location of that item.

Press the **"Make Pilot Report"** to file a Pirep.



When you make a pilot report, it will be available to all other Active Sky pilots.

Pireps are encouraged! It helps other pilots get a picture of the actual weather conditions experienced enroute at specific locations.

Enter a location, such as "30N of
"KLAX FL200

Enter your aircraft type, such as
"B737"

Enter your report, such as "Mod turb
"below FL120

Location Text
1 NM BRG 260 FROM KDTW AT FL220

Aircraft Type
B737

Report Text
Moderate Chop Above FL240

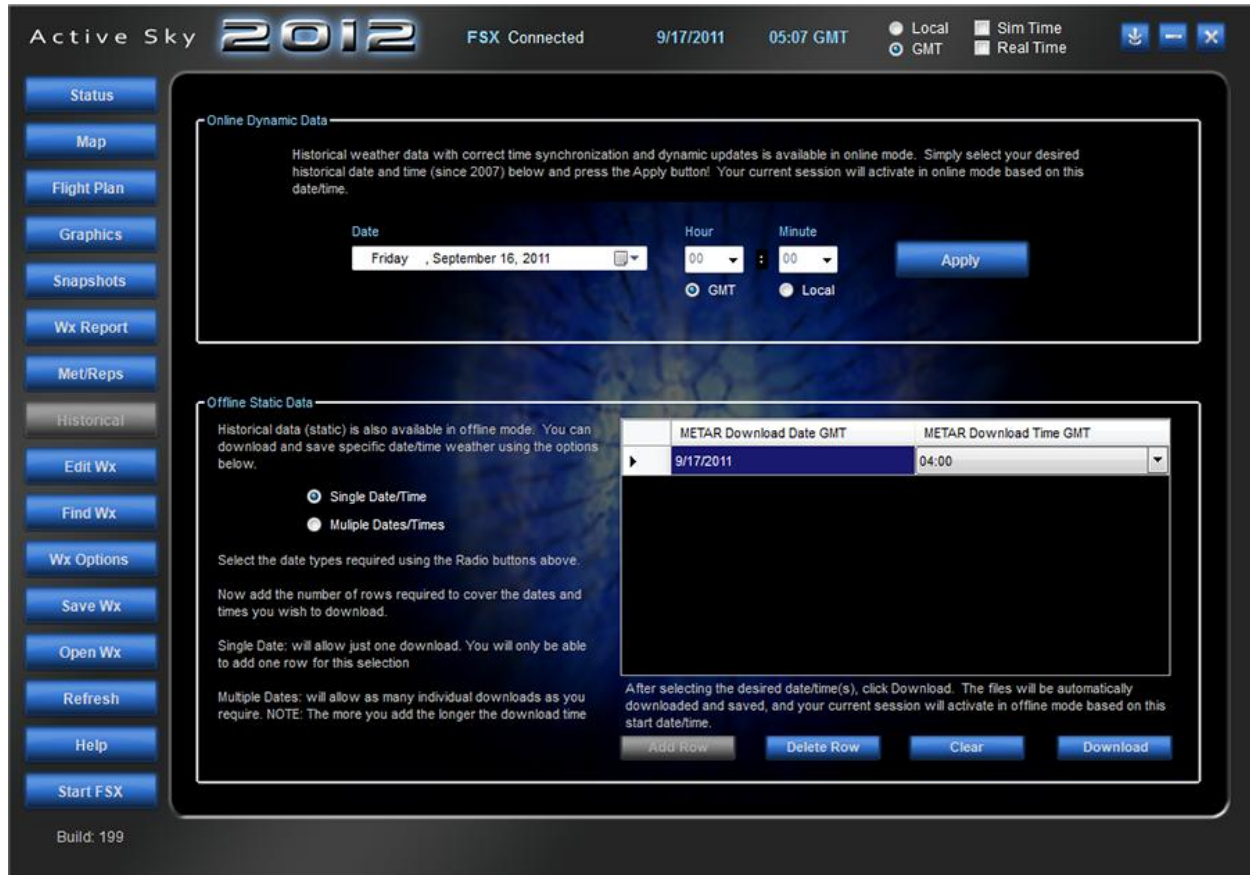
Cancel OK

You should check the entered location and then enter the details required such as aircraft type (C172 for instance) and the report that you wish to make such as "Moderate Turbulence below 10,000ft. This pirep will then be filed and all users of Active Sky 2012 will be able to see this report. These reports are displayed on the map screen and on XGauge. Pireps are valid for 6 hours from time of submission.

Pireps are encouraged! It helps other pilots get a picture of the actual weather conditions experienced at specific locations so please use this facility to keep others informed of actual conditions you are experiencing. The more Pireps filed by Active Sky users, the better the coverage for all to benefit from.

Note that you can only make a Pirep when Active Sky 2012 is Connected to FSX.

Historical



Historical Data with correct time synchronization and dynamic updates is available in online mode. Simply select your desired historical date and time (since 2007) and press the '**Apply**' button. Your current season will activate in online mode based on this date/time.

The Historical Screen also provides a way to download historical weather for Offline mode. Weather can be downloaded for any date/hour since January 1, 2007.

Select the date types required using the Radio buttons at the top left of the screen.

Now add the number of rows required to cover the dates and times you wish to download using the "Add Row" button.

Single Date: will allow just one download. You will only be able to add one row for this selection.

Multiple Dates: will allow as many individual downloads as you require. NOTE: The more you add the longer the download time.

Any dates that are in the future will be set to current date and previous hour.

For selection you can either edit the date value directly or click to open a calendar popup.

Click **Download** to complete the process. The weather will automatically be saved and activated, and Automatic Weather Downloads (if enabled) will be temporarily disabled (to prevent updates from overwriting your desired historical weather).

Edit Wx



The **Edit Wx** Screen is the place to load, save and manually edit weather conditions.

Main Items

- **Selected Station ID:** Enter the desired ICAO identifier for the station you wish modify.
- **Date:** Enter the valid METAR date which is the day number for the current month.
- **Hour:** Enter the GMT/UTC(Z) Time for this weather.
- **Reload Current:** Click to load and reset the wx conditions shown for the selected station ID.

Wind and Temperature

- **Altitude MSL:** Choose the existing layer (base, feet, above sea level).
- **Direction:** Choose the wind direction (degrees, true).
- **Speed:** Choose the wind speed (knots).
- **Temp C:** Choose the temperature (Celsius).
- **Turbulence:** Choose the level of turbulence for this layer.
- **Shear:** Choose how quick the wind direction or speed will change between layers.
- **Dew C:** Choose the dew point (temperature at which air condenses and clouds/fog form).
- **Add Layer:** Add a new wind/temperature layer.
- **Edit Layer:** Edit the currently selected layer.



The screenshot shows a dialog box with the following fields and controls:

Altitude MSL Surface	Wind Direction 226
Wind Speed 11	Temperature 35.3983
Dewpoint -4.067797	Shear Gradual
Turbulence Light	

At the bottom of the dialog box are three buttons: Cancel, Apply, and OK.

Clouds

- **Altitude AGL:** Choose the existing layer (base, feet, above ground level).
- **Thickness:** Choose the cloud layer thickness (Note that FSX currently does not support modifying thickness externally and will automatically apply an appropriate thickness to each layer. Future revisions of FSX may support manual thickness specification).
- **Coverage:** Choose how dense the cloud layer will be. Can be one of: Few, Scattered, Broken or Overcast.
- **Type:** Select one of: Cirrus, Stratus, Cumulus or Cumulonimbus.
- **Turbulence:** Choose the level of turbulence to be experienced within this cloud layer.
- **Shear:** Choose how quick the wind direction or speed will change within this cloud layer.
- **Icing:** Choose the level of airframe/induction icing while within this cloud layer.
- **Add Layer:** Add a new cloud layer.
- **Edit Layer:** Edit the currently selected layer.
- **Delete Layer:** Delete the currently selected layer.



The screenshot shows a configuration window for clouds with the following settings:

Parameter	Value
Altitude AGL	[Empty text field]
Thickness	[Empty text field]
Type	Cirrus
Coverage	Clear
Shear	Gradual
Icing	None
Turbulence	None

Precipitation

- **Type:** Select Rain or Snow.
- **Strength:** Choose the overall intensity of the precipitation.

Visibility

- **Range SM:** Select the desired surface visibility for this area (statute miles).

Altimeter

- **Pressure:** Select the desired pressure (millibars) for this area.

Encoded METAR

- **METAR String:** You can directly edit this METAR text area which will automatically update the specific weather conditions. Any manual entry here will result in existing conditions to be reset per the strict METAR code (thicknesses and cloud types, for example, will be lost). If you wish to specify extended information such as thicknesses and cloud types, edit the METAR first THEN edit the specific information using the interface.
- **Load / Save Preset:** You can load a pre-existing set of weather conditions based on a METAR string by pressing the “**Load Preset**” button and choosing the desired “.wx” file. Save the existing indicated conditions/METAR string with the “**Save Preset**” button.
- **View Summary:** This previews the current weather specified in the Report Screen.
- **Cancel Changes:** This cancels all changes made.
- **Parse METAR:** If you have manually edited the METAR string, this button will decode the string and set all weather parameters accordingly.

Application Range

Select the desired range (statute miles) around this station to apply the weather. Any station within the range specified will inherit the specified conditions. Choose “global” to apply world-wide.

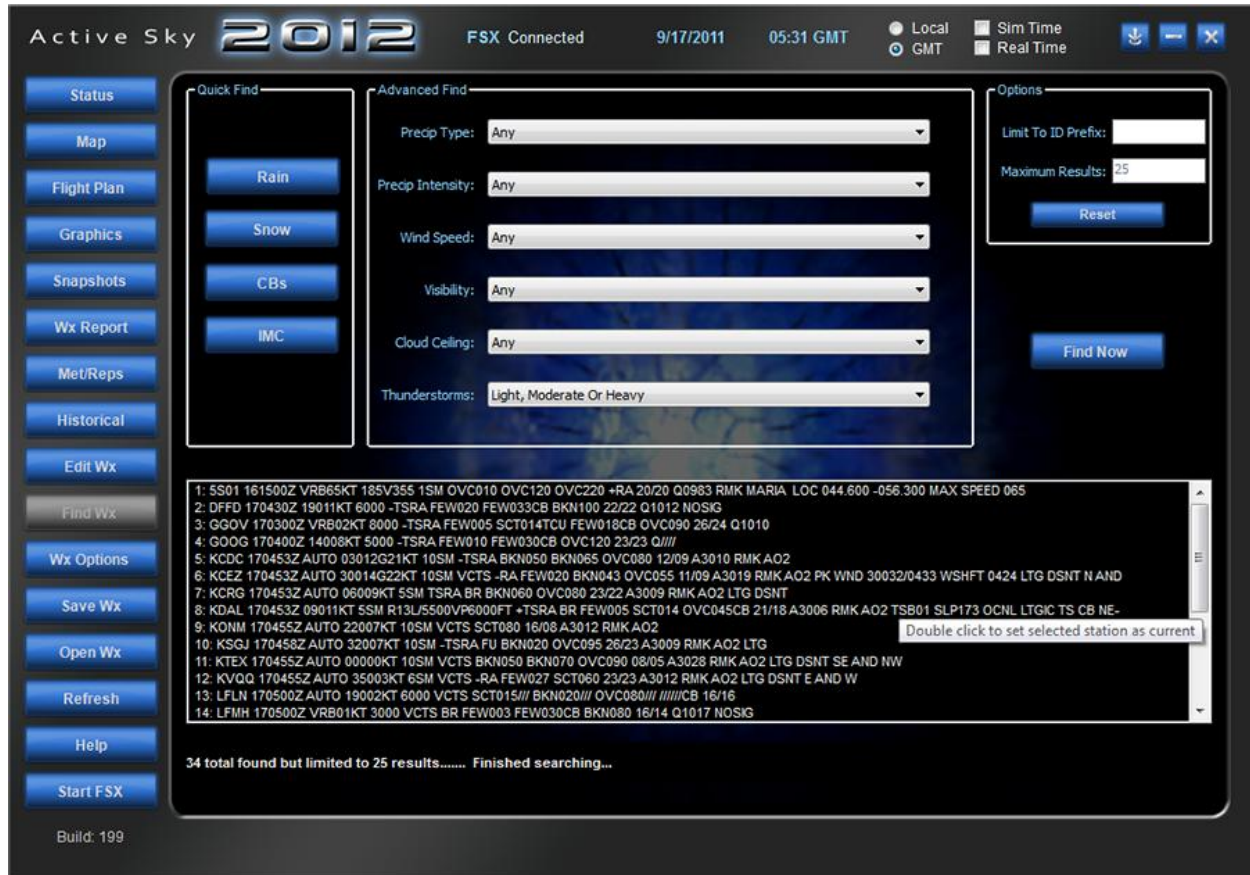
Apply Now

Click to actually apply the specified weather and make active. It may take time for the weather to update and show within the simulator.

Units

Click on your desired Visibility and Pressure units (SM or Meters for Visibility, Inches or Millibars for Pressure).

Find Wx



The Find Wx screen allows you to search for weather conditions that you would like to fly in. You can quickly select a general condition such as Rain or IMC etc by clicking one of the buttons on the left of the screen.

You can select more detailed conditions by using the “**Advanced Find**” combo boxes in the center of the screen to drill down to specific conditions you require.

You can further filter the results by limiting the ICAO prefix up to, and including, a full single ICAO by entering a partial or complete ICAO code in the “**Limit to ID Prefix**” text box. You can also limit the number of results by entering a number value in the ‘**Maximum Results**’ text box, by default this is set at 25 results.

Once you have filled in this information click on the ‘Find Now’ button and the results will be displayed in the list view at the bottom of the screen. There will also be an indication of the total results found displayed below this list.

You can then double click on a list item which will then take you to the map screen at the ICAO of the METAR selected.

To clear the search criteria click on the “**Reset**” button.

Wx Options



Many options exist within Active Sky 2012 which can increase your overall experience. By default, a recommended “generic” option set is provided, which should provide good results for most users. It is recommended to become familiar with all the available options and tweak them based on your requirements and expectations.

Note that “**Graphics Settings**” are available in the [Graphics Screen](#) (Settings button).

There are several tabs along to top of the Wx Options screen which bring up each individual option category. The tabs are: **General Options**, **Cloud Options**, **Wind Options**, **Visibility Options**, **Edit Station Data** and **Thermals**. **General Options** is opened by default.

At the bottom of the Wx Options screen are four buttons:

- **Export Logs:** Saves all your log files and combines them into a single log file, useful for reporting errors or when contacting Technical Support. Note that this only saves the current session's logs and does not contain information from the previous session.
- **Load Defaults:** Loads the "factory" default settings for Active Sky 2012.
- **Cancel Changes:** Cancels all changes made.
- **Save and Apply:** Saves and activates your changes.

General Options



The following options are available on the General Options tab:

- **Application Sounds:** Selecting this option plays the thunder sound as Active Sky 2012 starts up and enables sound effects including the “shutter” sound when making graphics selections and recoloring variants.
- **Show in-sim text messages:** Selecting this options allows Active Sky 2012 to display scrolling messages in FS.
- **Voice ATIS/Flightwatch:** Selecting this option plays the ATIS and Flightwatch messages when you select the assigned frequency in FS (122.00).
- **Force Destination Wx Zone:** Selecting this option instructs Active Sky 2012 to force all weather stations to your present destination conditions when you are within 128nm. Using this feature, you can start to see your final weather earlier and provides for less surprise on final approach, where conditions might have normally been much different. This will also help stabilize AI traffic for the proper landing/departing runway. You must have a flight plan loaded for this feature to activate.
- **ATC Wind Lock:** When enabled, surface winds will not change, and ATC runway assignment conflicts should be avoided. The locked wind will be “reset” when you cross the 128nm

threshold to your destination, if using a flight plan, or within 3000ft AGL of the surface otherwise, in order to allow the wind to update to the latest conditions before arrival.

- **Force High Priority Processes:** Selecting this option allows Active Sky 2012 to set itself as the high priority application for processing requests on your computer. This may result in faster MAP redraws, weather synthesis and other processes, but may also reduce your frame rate.
- **Post-Plan Graphics Install Prompt:** Select this to have Active Sky 2012 prompt you to automatically install Graphics (integrated or via Snapshots) after loading/processing a new flight plan.
- **Automatic Downloads:** Selecting this option tells Active Sky 2012 to automatically download and update weather data using the interval selected on the download interval slider.
- **VATSIM Online Weather:** Selecting this option instructs Active Sky 2012 to use VATSIM as the weather data source for weather updates of your current and destination weather. A flight plan must be in use.
- **Download Interval:** Moving this slider adjusts the time period between weather updates. Works in conjunction with the Automatic Downloads checkbox.
- **Depiction Mode:** Selects between the 3 available depiction modes for FSX.

Each mode has certain advantages and disadvantages. The user should look at the recommendations below and perhaps try all three modes before decided on the best one for their needs.

Standard

Standard weather depiction mode uses normal SimConnect station-based weather writes and supports Range Suppression to reduce visual cloud changes (shifts) within your local view range. Recommended for best accuracy and consistency of SURFACE weather depiction. May result in simulation stutters/pauses during weather writes (supports write suppression ceiling to prevent updates below a certain altitude). Supports Local Range Suppression to prevent changes of weather in the local area, which could cause visual cloud shifting.

Smooth Cloud Transitions

Smooth Cloud Transitions depiction mode uses enhanced SimConnect weather writes that supports transitional cloud depictions that change over a period of 30 seconds.

May result in inconsistent weather parameters at locations other than departure area and in winds aloft. Recommended for short-range and local flights or where visual cloud smoothness is preferred over accuracy.

Direct Weather Control

Uses unique method of directly controlling ambient weather parameters resulting in the best balance of accuracy and smoothness of all weather especially aloft winds.

Recommended for longer-range and airliner-style flights where winds aloft accuracy is important. Includes full real-time Wind, Visibility and Barometric Pressure Smoothing.

Please note that in Direct Weather Control mode, the conditions are global ambient,

meaning they are the same (wind, temp, pressure) for all altitudes and all locations, based on the aircraft position. FS ATIS for any airport/station will give improper surface details. For this reason, AS2012's Voice ATIS/Flightwatch feature (122.00 or 122.02 on COM radios) should be used as an ATIS replacement when using DWC.

When changing depiction modes, make sure you Apply/Save your option changes, followed by restarting Active Sky 2012, to see new weather depiction modes properly take effect.

- **Depict Hurricanes:** Selecting this option tells Active Sky 2012 to depict hurricanes using specialized hurricane simulation when Active Sky 2012 detects hurricane strength wind data from weather stations. This option is only available in FSX at the present time.
- **Create additional stations:** Select this option to instruct Active Sky 2012 to create additional weather stations between reporting stations. Active Sky 2012 will interpolate weather data between the stations to allow smoother transition of weather changes between stations. This function is not relevant to operation in DWC mode.
- **Enhance Route Coverage:** Select this option to instruct Active Sky 2012 to create an enhanced corridor of additional stations along the route of your flight. A flight plan needs to have been entered for Active Sky 2012 to calculate your route enhancement. This function is not relevant to operation in DWC mode.
- **Dynamic Rate of Change:** Moving this slider adjusts the dynamic rate of change of weather conditions in FSX. For most users, a setting of ZERO is highly recommended in order to avoid depiction issues.
- **Use Local Range Suppression:** Select this option to suppress weather updates inside a certain range of the aircraft. This option is only available in Standard Depiction Mode, and prevents graphical cloud shifts during updates. The weather you fly into is updated, but the weather around your visible area is kept the same.
- **Suppress On Ground:** When using Local Range Suppression, select this option to suppress weather updates when the aircraft is on the ground. Normally, when suppression is enabled, ground updates are allowed to continue.
- **Suppression Ceiling:** When using Standard Depiction Mode, this value (in Feet MSL) is used to determine when to prevent weather writes. Since weather writes can occasionally cause increased overhead and stutters, this can prevent such occurrence in critical situations such as departure and approach phases of flight. A value of 10000 is recommended for high altitude flights (Commercial and Airliner), and a value of 4000 is recommended for lower altitude flights (GA). Maximum is 20000. Warning: ALL WEATHER UPDATES WILL BE PREVENTED when airborne below this configured altitude. This should always be set LOWER than your planned cruise altitude, otherwise weather will not properly update!
- **Local Suppression Range:** Moving slider adjusts the range in which weather updates are suppressed. Anything outside this range will continue to update, and anything inside this range (while airborne) will be kept the same. 100-200nm is recommended. Used with the Local Range Suppression feature.

Cloud Options

The following options are available on the Cloud Options tab:

- **Maximum Cloud Layers:** Moving this slider will adjust the maximum number of cloud layers depicted. The more layers selected the more of a load will be placed on FS, and the slower potential performance.
- **Minimum Cloud Turbulence:** Moving this slider adjusts the minimum % of turbulence experienced when in cloud layers.
- **Maximum Cloud Turbulence:** Moving this slider adjusts the maximum % of turbulence experienced when in cloud layers.
- **Minimum Cloud Icing:** Moving this slider adjusts the minimum % of icing experienced within cloud layers.
- **Maximum Cloud Icing:** Moving this slider adjusts the maximum % of icing experienced within cloud layers.
- **CAVOK Cloud Generation:** Moving this slider adjusts the % of chance that cloud layers will be generated when conditions are reported as CAVOK (Clouds And Visibility OK). Any generated layers will generally be at least 5000ft and of FEW or SCT type.

- **No Data Cloud Generation:** Moving this slider adjusts the % of cloud layers generated when stations are not reporting cloud data.
- **Cirrus Cloud Generation:** Moving this slider adjusts the % level of high (cirrus) cloud layer generation (usually not reported in METARs).
- **Stratus Cloud Occurrence:** Moving this slider adjusts the % of Stratus cloud layers versus Cumulus layers. Stratus layers are generally flat in appearance, while cumulus are puffy and more dramatic. Air stability calculations will also influence the stratus cloud occurrence rate (less stability means more chance for cumulus).
- **Prevent Cloud Redraws (DWC Mode):** Check this option to prevent cloud redraws when you have DWC mode selected. This aids the prevention cloud popping.
- **Prevent Thunderstorms When CB Reported:** Check to Prevent Thunderstorms with CB reports. USA tends to report CB when Thunderstorm activity is imminent while in other countries it may be routinely used for more normal (not significantly-convective) conditions.
- **Enable Stratocumulus Simulation:** When enabled, traditional stratus and cirrus clouds will not be depicted, but will instead be replaced with dramatic Stratocumulus-style clouds. These clouds are fairly thin and layered but also lumpy with hints of cumulus. In order to provide the effect, the clouds are defined in FSX as Cirrus, but act as both Stratus and Cirrus layers. You must select a Stratocumulus-style Cirrus variant within Active Sky 2012's Integrated Graphics in order to take advantage of this feature. Your "Stratus Cloud Occurrence" setting will affect the lower-altitude probability of these types of clouds, while your "Cirrus Cloud Generation" setting will affect the higher-altitude probability. This feature supports weather-influenced selections.

Wind Options

The following options are available on the Wind Options tab:

- **Disable Winds Aloft:** Selecting this option will disable wind generation above the surface wind layer.
- **Wake Turbulence Strength:** Moving this slider adjusts the % of wake turbulence strength during the wake turbulence simulation by Active Sky 2012.
- **Maximum Surface Wind:** Moving this slider adjusts the maximum wind strength in knots depicted by Active Sky 2012.
- **Minimum Wind Turbulence:** Moving this slider adjusts the minimum % of wind turbulence experienced.
- **Maximum Wind Turbulence:** Moving this slider adjusts the maximum % of wind turbulence experienced.
- **Minimum Wind Shear:** Moving this slider adjusts the minimum % of wind shear experienced.
- **Maximum Wind Shear:** Moving this slider adjusts the maximum % of wind shear experienced.
- **Automatic Thermal Generation:** Moving this slider adjusts the % of thermals generated by Active Sky 2012.

- **Terrain Based Up and Downdraft Generation:** Moving this slider adjusts the % of up and downdrafts generated by terrain features.
- **Maximum Downdraft Rate:** Moving this slider adjusts the maximum downdraft rate, in fpm, experienced when entering a downdraft.
- **Maximum Updraft Rate:** Moving this slider adjusts the maximum updraft rate, in fpm, experienced when entering an updraft.

Visibility Options

The following options are available on the Visibility Options tab:

- Fog Layer Generation:** Selecting this option will instruct Active Sky 2012 to depict a fog layer whenever Fog is stated as obscuration in the station weather report or visibility is under 3 miles. Fog layers are injected overcast cloud layers just above the surface to approximately 2000ft. Their type depends on the next option.
- Use Stratus for Fog:** When checked, Stratus will be used for fog layer generation instead of cumulus. Stratus gives a thinner, less full cloud but may be more realistic as a simulation to fog.
- Enable Visibility Graduation and Smoothing:** Selecting this option will instruct Active Sky 2012 to smooth/graduate the visibility differences between surrounding stations and also vertically as you climb/descend. When used with FSX, Direct Weather Control depiction mode must be enabled to use this feature.
- Graduation Ceiling:** When Visibility Graduation and Smoothing is enabled, this value controls the altitude (in feet AGL) that the Maximum Upper Visibility should be depicted. For example, at 27000ft AGL, visibility will slowly increase from the surface to the maximum at 27000ft. A minimum of 5000 and maximum of 90000 is acceptable.

- **Minimum Surface Visibility:** Moving this slider adjusts the minimum surface visibility, in nm, depicted in FS.
- **Maximum Surface Visibility:** Moving this slider adjusts the maximum surface visibility, in nm, depicted in FS. FS sight radius/maximum visibility settings can also influence maximum visibility depicted.
- **Maximum Upper Visibility:** Moving this slider adjusts the maximum visibility, in nm, above the surface layer depicted in FS. FS sight radius/maximum visibility settings can also influence maximum visibility depicted.

Note: The option to “Disable FS Haze Layer” that was available in previous Active Sky versions has been eliminated. The haze layer is now automatically disabled in all cases and required for proper results of our new high-definition graphics and enhanced weather depiction routines.

Edit Station Data

The screenshot shows the 'Edit Station Data' window in Active Sky 2012. The window title is 'Active Sky 2012' and it displays 'FSX Disconnected', '11/23/2011', and '11:13 GMT'. The window is divided into several sections:

- Left Sidebar:** Contains buttons for Status, Map, Flight Plan, Graphics, Snapshots, Wx Report, MetReps, Historical, Edit Wx, Find Wx, Wx Options, Save Wx, Open Wx, Refresh, Help, and Start FSX.
- Top Tabs:** General Options, Cloud Options, Wind Options, Visibility Options, Edit Station Data (selected), and Thermals.
- Main Table:** A table with columns: Station ID, Latitude, Longitude, Elevation, Edited?, and Disabled?. The table lists various stations, including airports like OOAL, OOAZ, 00B, 00C, 00CA, 00CL, 00CO, 00FA, 00FL, 00GA, 00IL, 00IS, 00KS, 00M, 00MD, 00MN, 00MO, 00MT, 00N, and 00NC.
- Bottom Section:** Includes a 'Load Data File' dropdown menu set to 'Airports', an 'Overwrite User Edited Data On Update?' section with radio buttons for 'Ask', 'All' (selected), and 'None', and buttons for 'Delete', 'Reset to Default', 'Reload', 'Cancel Changes', 'Save', 'Export Logs', 'Load Defaults', 'Cancel Changes', and 'Save and Apply'.

This screen allows you edit the following data:

- Airports.
- Data Stations
- VORs
- NDBs
- Physical Stations

As you can see the center of the screen contains the full list of stations in the currently selected file. The data displayed varies according to the file.

Active Sky 2012 creates a backup of the original file to enable you to revert at any time to that file. The file that is being edited is a temporary file with extra data stating whether the values for the data have been edit or whether the item in that file is disabled.

You can change any value in the list by selecting the cell and then amending the value selected. Once you have edited the value the '**Edited?**' value will change to true giving you a visual clue to the stations where you have changed data. You can also disable the station entirely by checking the '**Disabled**' checkbox. You can also add new stations by scrolling to the bottom of the list and entering the data in the blank row at the bottom.

Once you have completed your changes you can click the '**Save**' button which will save all your changes. You can cancel any changes you have made prior to saving by clicking on the '**Cancel Edit**' button.

If you wish to refresh the data from the current in-use edit file click on the '**Reload File**' button.

If you wish to refresh the currently selected file with data from our servers click the '**Update File**' button. Active Sky 2012 will download the latest file from our servers and merge the data using the rules you have specified on the '**Overwrite User Edited Data On Update**' radio buttons. Active Sky 2012 will then go through the data item by item and update each station as necessary. Any stations that have not been flagged as edited by the user will be updated.

The options available are:

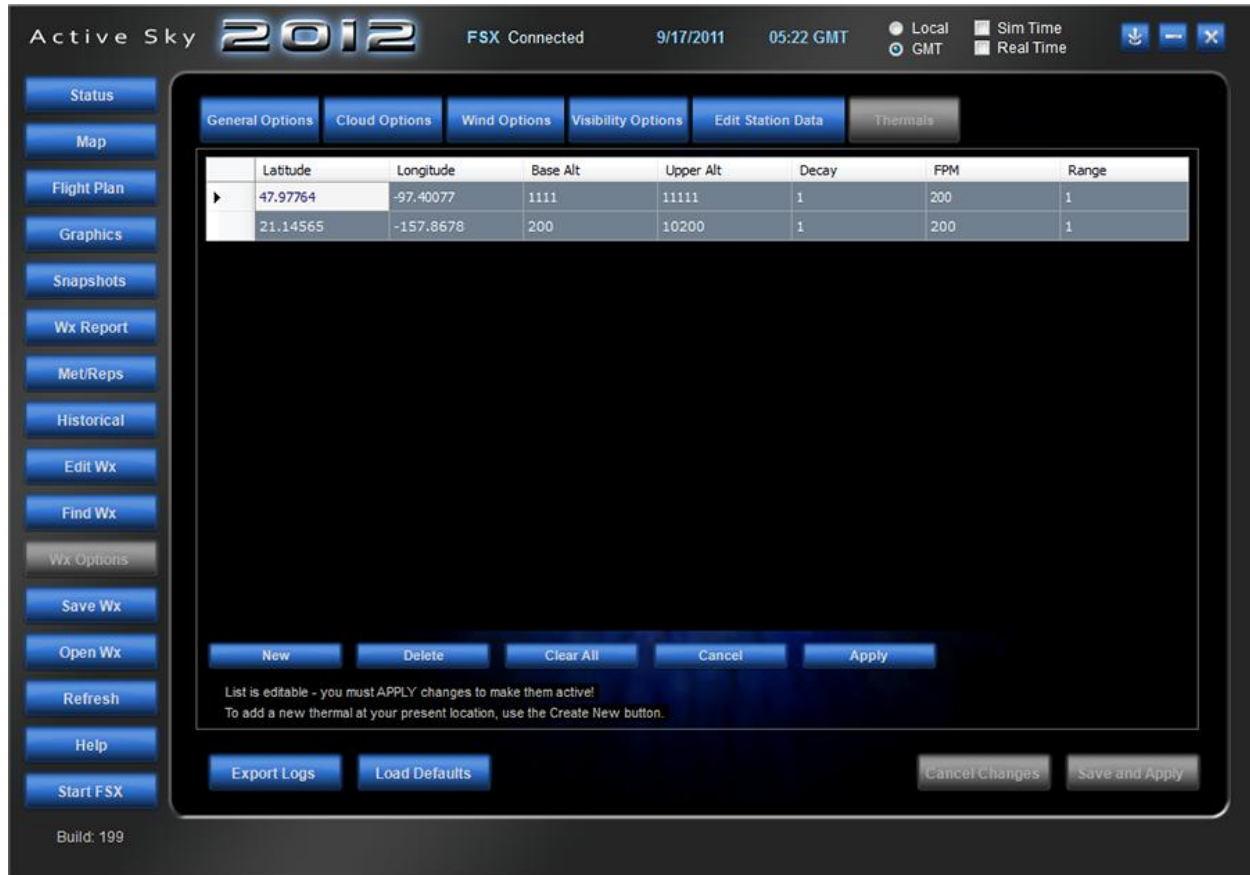
- **Ask:** Any station data that differs from the file on your pc and has been flagged as user edited will require confirmation before Active Sky 2012 updates that station.
- **All:** All station data, including any user edited data, will be updated with no intervention required by you.
- **None:** All station data that is not flagged as user edited will be updated. User edited data will not be updated and will keep your changes.

All station files can be updated from the server with the exception of the wxmapping.bin file which is a FS file and cannot be updated by our servers.

If you find that the data you have changed is incorrect or cannot remember the original values you can delete the Edit file and start with fresh data. Click the '**Delete Edit File**' and this file will be deleted then recreated by Active Sky 2012 from one of two options. A message box will appear asking the following question.

"Do you wish to download a fresh [Selected Edit File] from the server? If you select no then we will reload data from the current data file."

Select 'Yes' to allow Active Sky 2012 to download the latest data file from the server or select 'No' for Active Sky 2012 to use the current file stored on your PC.

Thermals

This screen allows you to add custom thermals in FSX. Thermals can be “positive” or “negative”, meaning they can provide a lifting force or a descending force.

There is a main data grid where you can view the thermal data you have created, showing:

- **Latitude:** Latitude of thermal. If FSX is running at the time of creation then the latitude will value will be the latitude of the aircraft.
- **Longitude:** Longitude of thermal. If FSX is running at the time of creation then the latitude will value will be the longitude of the aircraft.
- **Base Alt:** The altitude at which the thermal will commence.
- **Upper Alt:** The altitude at which the thermal will finish.
- **Decay:** The factor by which the thermal will decay as it ascends (1.0 default)
- **Fpm:** The feet per minute rate at which the air ascends or descends (use negative values for downdraft)
- **Range:** The effect range from the center of the lat and long that the thermal can be experienced.

All these values can be edited directly in the grid.

To create a new thermal, press the “**New**” button and edit the details directly in the data grid. If FS is connected, your current position will automatically be pre-filled in the data grid. When finished, press the “**Apply**” button. Make sure that you have Thermals enabled in the Wind Options tab in order to have them depicted!

Additional Navigation Buttons

Save Wx, Open Wx

These buttons allow you to save and open global pre-saved weather. Simply select the file to save (or open) in the dialog window that opens and press **OK**.

Refresh

The Refresh button will refresh all weather and internal parameters, including downloading new weather (if Automatic Downloads are enabled). It may take a few minutes for all refresh process to complete.

Help

This brings up the documentation that you are now viewing.

Start FSX

Launches FSX.

Voice Features

Active Sky 2012 includes a voice ATIS and FlightWatch feature, which plays audio messages similar to real ATIS broadcasts and Flightwatch weather updates.

To use these Voice features, make sure AS2012 is running and tune to **122.00** on any COMM radio in FSX (must be activated and audio panel selected for that radio) and you will receive an ATIS voice message for the closest weather station. Tuning to **122.02**, when a flight plan is specified, plays back a destination Flightwatch weather report.

When using Direct Weather Control depiction mode, these Voice features should be used as an alternative to FSX ATIS in order to get correct station weather details. FS ATIS will report the current ambient weather conditions (at your aircraft's position and altitude), which will differ from the actual station weather details. For example, in DWC mode flying at 33,000 feet above KLAX, FS KLAX ATIS will report winds at your altitude, which will usually be much different than the surface winds. Active Sky 2012's ATIS report should be used instead, which will provide the correct station surface information.

Creating Voice Sets

You can create custom voice file sets using your own voice. To do this, you will need to specify a new voice folder and record several voice files. You can use the standard sound recorder included with windows, or any other application that allows voice recording to .wav files. It is recommended to use EQ and effects to simulate standard radio acoustics, but this is not required.

To create the new set, create a new folder in the Program Files\HiFi\AS2012\Voice\ base folder (i.e. Voice4). It is recommended to copy an existing folder (i.e. Voice1) into the new one and rename it to the new folder name so you have a reference to work with. The folder name must be one of Voice1 through Voice10.

You can use the below list to guide you in recording new voice phrases:

File Name	Phrase
0.wav	Zero
1.wav	One
2.wav	Two
3.wav	Three
4.wav	Four
5.wav	Five
6.wav	Six
7.wav	Seven
8.wav	Eight
9.wav	Niner
hundred.wav	Hundred
thousand.wav	Thousand
a.wav	Alpha
b.wav	Bravo
c.wav	Charlie
d.wav	Delta
e.wav	Echo
f.wav	Foxtrot
g.wav	Golf
h.wav	Hotel
i.wav	India
j.wav	Juliet
k.wav	Kilo
l.wav	Lima
m.wav	Mike
n.wav	November
o.wav	Oscar
p.wav	Papa
q.wav	Quebec
r.wav	Romeo
s.wav	Sierra

t.wav	Tango
u.wav	Uniform
v.wav	Victor
w.wav	Whiskey
x.wav	X-Ray
y.wav	Yankee
z.wav	Zulu
information.wav	Information
weather.wav	Weather
wind.wav	Wind
calm.wav	Calm
gusting.wav	Gusting to
at.wav	At
vis.wav	Visibility
sky.wav	Sky Condition
clear.wav	Sky Clear
ceiling.wav	Ceiling
few.wav	Few Clouds at
scattered.wav	Scattered
broken.wav	Broken
overcast.wav	Overcast
temp.wav	Temperature
dewpoint.wav	Dewpoint
minus.wav	Minus
altimeter.wav	Altimeter
qnh.wav	QNH
rain.wav	Rain
snow.wav	Snow
thunderstorms.wav	Thunderstorms in the vicinity
light.wav	Light
moderate.wav	Moderate
heavy.wav	Heavy
advise.wav	Advise on initial contact you have information....
flightwatch.wav	FlightWatch Radio on 122.0. Current weather for..
goodday.wav	Pilot reports requested on 122.0. Good-day.
viszero.wav	Less than 1/8th
vis18.wav	One Eighth
vis14.wav	One Quarter
vis12.wav	One Half
vis34.wav	Three Quarters
vis114.wav	One and a Quarter
vis112.wav	One and a Half
vis134.wav	One and Three Quarters
vis214.wav	Two and a Quarter
vis212.wav	Two and a Half

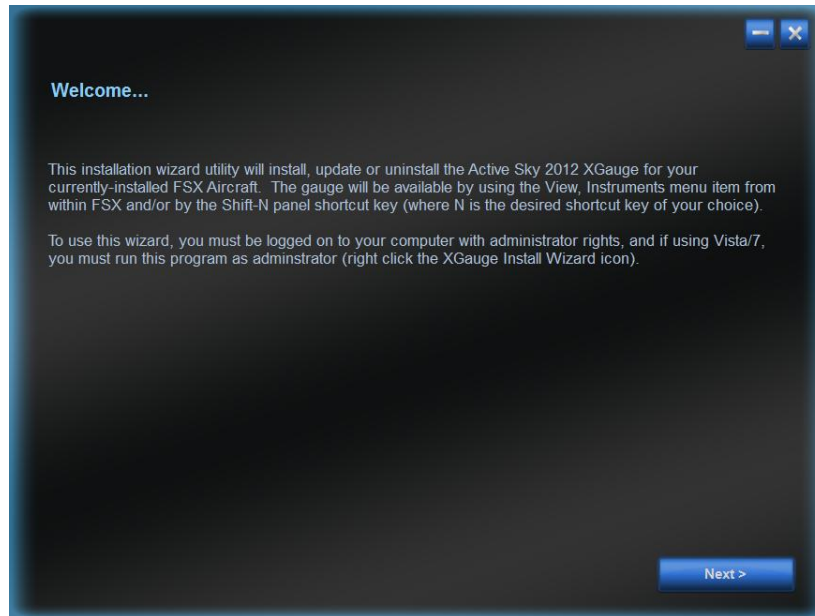
XGauge and XGauge Installation Wizard



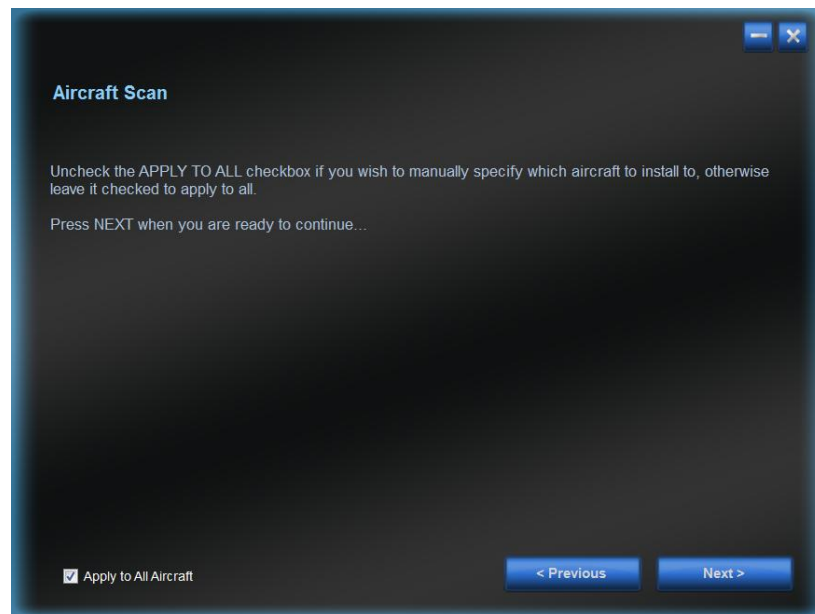
XGauge is Gauge that runs within FSX itself and is installed to aircraft directly. **XGauge** loads the imagery provided by Active Sky, displays it, and allows you to change the range, toggles and winds level settings, similar to using the Map Screen.

XGauge must be installed into your aircraft to be used, so we have included a simple "**XGauge Installation Wizard**" program to handle this task. With a few clicks it will easily install the required files and the gauge itself into all aircraft.

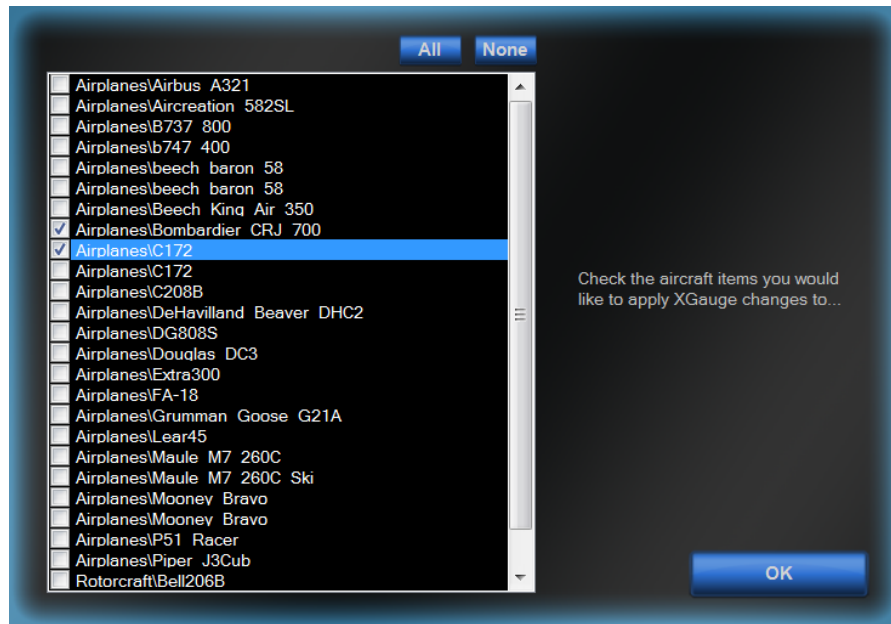
To run **XGauge Installation Wizard**, use your windows START, Programs, HiFi, Active Sky 2012 program menu and click on **XGauge Installation Wizard**. You simply follow the prompts to complete the gauge installation.



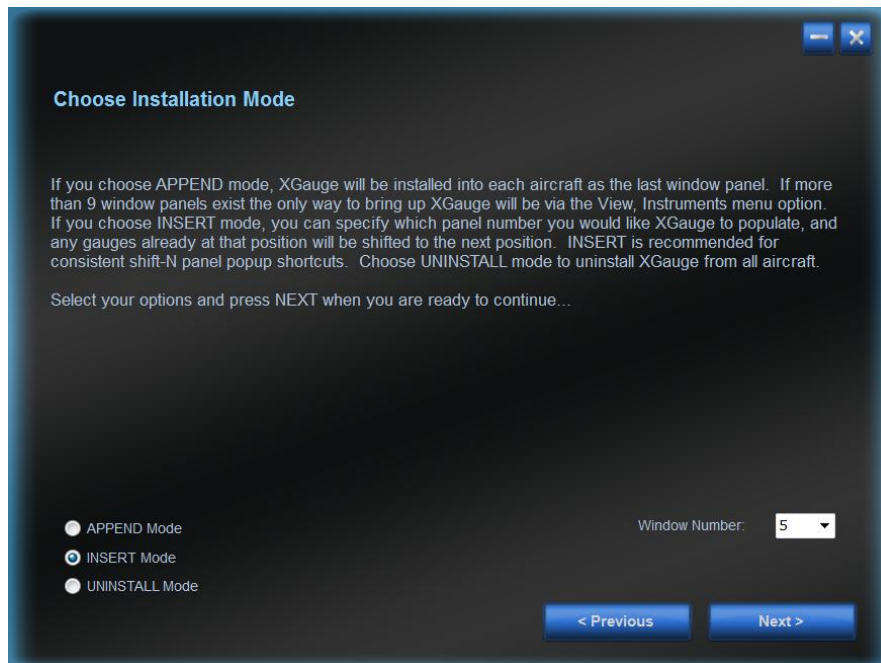
During the installation wizard process, you will be asked if you wish to apply to all aircraft or only the aircraft you choose. This is done by checking or un-checking the “Apply to All Aircraft” checkbox at the bottom left in this screen.



If you have un-checked “Apply to All Aircraft” then a popup selection window will show and allow you to choose:



You will then be asked which installation mode. We recommend using INSERT Mode at the default 5 Window Number.



After the installation completes you can simply load Active Sky 2012 and FSX, then use the SHIFT-5 (or your desired window number) key combination to bring up XGauge!

Note: Certain 3rd party aircraft panels may not be able to be edited by the wizard. If this occurs, you will see a warning message indicating which aircraft/panel failed, and normal installation will continue. You will be able to manually edit this panel and insert XGauge appropriately. Please see the existing XGauge-installed panels and the Flight Simulator Panels and Gauges SDK for more information (www.fsinsider.com).

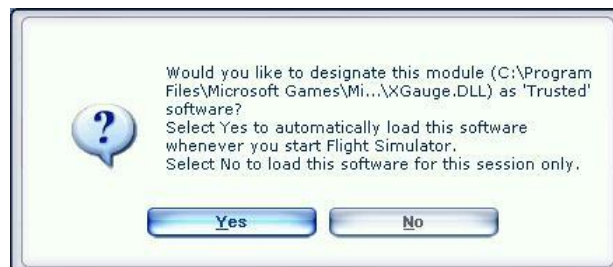
Note: You can uninstall XGauge and restore your panel files to their original state by using the UNINSTALL mode of XGauge Wizard. Please use caution restoring panel files that have been modified after backup (backup occurs during installation of the gauge).

IMPORTANT: If you are coming from an older version of Active Sky with an older XGauge, you need to UNINSTALL XGauge (via XGauge Wizard), then REINSTALL XGAUGE. This must be done in order to update important gauge files.

When you first run **FSX** after the installation you may get 2 warnings. The first is the Microsoft warning asking you to allow the software to run. Please select Run to allow X Gauge to complete its processes. This does not apply to FS9.



The second warning is from FSX itself asking you to allow the XGauge.dll to be entered into the trusted software list. If you select yes then you will not see this message again. If you select no then the XGauge will only be loaded for the current session and each time you open FSX this message will appear.





The buttons on the left and right-hand side control the map view. The toggle controls are exactly the same as per the Map Screen. You can also undock this gauge and move it to another position (use right-click, undock).

XGauge buttons

- **STA** = Station toggle
- **AIR** = Airport toggle
- **RTE** = Route toggle
- **VOR** = VOR/NDB Toggle
- **REP** = Sigmet/Airmet toggle
- **CLD** = Cloud toggle
- **PRE** = Precipitation toggle
- **VIS** = Visibility toggle
- **WND** = Winds toggle
- **MET** = Display the closest station (or custom defined station in Report Screen) decoded weather. Press this button again to turn off the decoded weather display.
- **DST** = Display the destination station (if flight plan loaded) decoded weather. Press this button again to turn off the decoded weather display.
- **W +** = View the next higher wind altitude level (indicated by WLevel value in top-right of gauge display window). WND toggle must be active.

- **W -** = View the next lower wind altitude level (indicated by WLevel value in top-right of gauge display window). WND toggle must be active.
- **R +** = Zoom in (Range is indicated in the top right corner of the gauge display window).
- **R -** = Zoom out (Range is indicated in the top right corner of the gauge display window).
- **PWR** = Turns the unit on and off. Electric power must be available in your aircraft.

Notes

- The imagery provided is a basic representation of weather conditions and not exact to the depiction that will be experienced in the simulator. Boundaries of precipitation zones, for example, may be different.
- When using XGauge, the toggle and zoom controls will override any settings on the Map Screen. If the Map Screen is used, toggle controls from XGauge may lose synchronization. If this occurs simply click any toggle to re-establish control from either XGauge or the Map Screen.
- XGauge may be overlaid onto Virtual Cockpit panels if an existing texture surface (such as an existing MFD-style gauge or other available area). Modifying the panel configuration files is required and not all aircraft are compatible with this method. For information on gauges and virtual cockpits, please see the Microsoft Flight Simulator X SDK at <http://www.fsinsider.com>.

When uninstalling XGauge from your panels using XGauge Wizard, the previous backup of any XGauge version will be restored, overwriting any recent changes that have been made. The panel files are automatically backed up before XGauge Wizard modifies panels, and are available in the aircraft panel folders.

Some inconsistencies can result with 3rd-party aircraft panels, and some panels may fail to process. If this happens, an error for that aircraft/panel will be shown. You will be able to manually edit the panel file and include XGauge. Please see the modified XGauge panels and the Microsoft Flight Simulator SDK for more information.

METAR and TAF Coding

METAR code is a standardized textual format for describing weather conditions at wx stations and airports. To decode items, use the table below (applies to METAR and TAF items):

<p>METAR KPIT 091955Z COR 22015G25KT 3/4SM R28L/2600FT TSRA OVC010CB 18/16 A2992 RMK SLP045 T01820159</p> <p>TAF KPIT 091730Z 091818 15005KT 5SM HZ FEW020 WS010/31022KT FM1930 30015G25KT 3SM SHRA OVC015 TEMPO 2022 1/2SM +TSRA OVC008CB FM0100 27008KT 5SM SHRA BKN020 OVC040 PROB40 0407 1SM -RA BR FM1015 18005KT 6SM -SHRA OVC020 BECMG 1315 P6SM NSW SKC</p>		
Forecast	Explanation	Report
TAF	Message type: TAF -routine or TAF AMD-amended forecast, METAR-hourly, SPECI-special or TESTM-non-commissioned ASOS report.	METAR
KPIT	ICAO location indicator	KPIT
091730Z	Issuance time: ALL times in UTC "Z", 2-digit date, 4-digit time	091955Z
091818	Valid period: 2-digit date, 2-digit beginning, 2-digit ending times	
In U.S. METAR: COR rected ob; or AUTO mated ob for automated report with no human intervention; omitted when observer logs on	COR	

ACTIVE SKY 2012 USER'S GUIDE

15005KT	<p>Wind:</p> <p>3 digit true-north direction, nearest 10 degrees (or VaRiaBle);</p> <p>next 2-3 digits for speed and unit, KT (KMH or MPS); as needed, Gust and maximum speed; 00000KT for calm;</p> <p>for METAR, if direction varies 60 degrees or more, Variability appended, e.g. 180V260</p>	22015G25KT
5SM	<p>Prevailing visibility: in U.S., Statute Miles & fractions; above 6 miles in TAF Plus 6SM. (Or, 4-digit minimum visibility in meters and as required, lowest value with direction)</p>	3/4SM
<p>Runway Visual Range:</p> <p>R; 2-digit runway designator Left, Center, or Right as needed; /"; Minus or Plus in U.S, 4-digit value, FeeT in U.S. (usually meters elsewhere); 4-digit value Variability 4-digit value (and tendency Down, Up or No change)</p>		R28L/2600FT
HZ	Significant present, forecast and recent weather: see table (below)	TSRA
FEW020	<p>Cloud amount, height and type:</p> <p>SKy Clear 0/8, FEW 0/8-2/8, SCaTtered 3/8-4/8, BroKeN 5/8-7/8, OVerCast 8/8;</p> <p>3-digit height in hundreds of ft;</p> <p>Towering CUmulus or CumulonimBus in METAR; in TAF, only CB. Vertical Visibility for obscured sky and height "VV004". More than 1 layer may be reported</p>	OVC010CB

	or forecast. In automated METAR reports only, CLearR for "clear below 12,000 feet"	
<p>Temperature:</p> <p>degrees Celsius; first 2 digits, temperature "/" last 2 digits, dew-point temperature;</p> <p>Minus for below zero, e.g., M06 18/16</p>		
<p>Altimeter setting:</p> <p>indicator and 4 digits; in U.S., A-inches and hundredths; (Q -hectoPascals, e.g. Q1013)</p>		A2992
WS010/31022KT	<p>In U.S. TAF, non-convective low-level (<=2,000 ft) Wind Shear; 3-digit height (hundreds of ft); "/" , 3-digit wind direction and 2-3 digit wind speed above the indicated height, and unit, KT</p>	
<p>In METAR, ReMarK indicator & remarks. For example:</p> <p>Sea-Level Pressure in hectoPascals & tenths, as shown: 1004.5 hPa;</p> <p>Temp/dew-point in tenths °C, as shown: temp 18.2°C, dew-point 15.9°C</p>	<p>RMK</p> <p>SLP045</p> <p>T01820159</p>	
FM1930	<p>FroM and 2-digit hour and 2-digit minute beginning time: indicates significant change.</p> <p>Each FM starts on a new line, indented 5 spaces.</p>	
TEMPO 2022	<p>TEMPOrary: changes expected for < 1 hour and in total, < half of 2-digit hour beginning and 2-digit hour ending time period</p>	
PROB40 0407	<p>PROBability and 2-digit percent (30 or 40): probable condition during 2-</p>	

	digit hour beginning and 2-digit hour ending time period
BECMG 1315	BECoMinG : change expected during 2-digit hour beginning and 2-digit hour ending time period

Table of Significant Present, Forecast and Recent Weather - Grouped in categories and used in the order listed below; or as needed in TAF, **No Significant Weather**.

QUALIFIER

Intensity or Proximity:

- Light "no sign" Moderate + Heavy

VC Vicinity: but not at aerodrome; in U.S. **METAR**, between 5 and 10SM of the point(s) of observation; in U.S. **TAF**, 5 to 10SM from center of runway complex (elsewhere within 8000m)

Descriptor:	Precipitation:
<p>MI Shallow BC Patches PR Partial TS Thunderstorm BL Blowing SH Showers DR Drifting FZ Freezing</p>	<p>DZ Drizzle RA Rain SN Snow SG Snow grains IC Ice crystals PL Ice pellets GR Hail GS Small hail/snow pellets UP Unknown precipitation in automated observations</p>
Obscuration:	Other:
<p>BR Mist(>= 5/8SM) FG Fog(< 5/8SM) FU Smoke VA Volcanic Ash SA Sand HZ Haze PY Spray DU Widespread dust</p>	<p>SQ Squall SS Sandstorm DS Duststorm PO Well developed FC Funnel cloud +FC tornado/waterspout dust/sand whirls</p>

Technical Guides

SimConnect Troubleshooting

If you are unable to get things working properly with FSX and Simconnect, please check for the following common issues:

- Standard networking not properly configured between computers
- SimConnect.xml, SimConnect.ini and/or SimConnect.cfg not properly existing or configured properly and in the proper locations
- Port not enabled via software firewalls
- Improper computer name or ip address set in the Address fields of the .xml and .cfg files
- Protocol not set for IPv4 in .xml and/or .cfg files
- SimConnect.msi installer not run on client machine

SimConnect not found error

Some users may experience trouble with SimConnect installation preventing proper operation of Active Sky 2012 or other SimConnect add-ons. You may a message during Active Sky 2012 startup similar to:

Simconnect SP1 or SP2 not found and must be installed for proper operation.

Reinstalling the FSX update(s) (recommended procedure)

The first step in attempting to repair your SimConnect installation is to uninstall/reinstall FSX's SP1 or SP2 update. Removal is done in add/remove programs, making sure to check the "Show updates" box to see the SP1, SP2 or Acceleration/SP2 update entry (if XP) or choosing the "View installed updates" option in (Vista/7).

The majority of potential installation issues will be solved with this method.

Manual deletion and reinstallation (if recommended reinstall procedure does not fix the problem)

Warning! Modifying your GAC or Windows SxS files can cause improper configuration of the SimConnect modules, and is not recommended for most users. Complete re-installation of FSX may be required.

If further problems are experienced, the actual SimConnect installation may be damaged/corrupt and the normal reinstall procedure may not work to correct the situation. If the described reinstall does not work, please follow these instructions to force a manual reinstallation:

If you have FSX Deluxe:

- Install the SDK from the DVD (if not already installed).
- Update to SP1A or SP2 SDK from www.fsinsider.com (if not already updated).
- You will need the `simconnect.msi` file located in your SDK folder's Core Utilities\SimConnect SDK\lib subfolder.
- Run this .msi file (double click) and the appropriate SimConnect files will be installed.
- A complete uninstall and reinstall of FSX may be required if none of these methods work. You can also contact Microsoft Technical Support for your FSX product.

If you do not have FSX Deluxe:

- Uninstall/remove the SP1, SP2 or Acceleration update(s) as described above in the recommended procedure
- Using Windows Explorer, locate the folder: <C:\Windows\winsxs> for XP or <C:\Windows\assemblies>(your Windows folder may be different if you chose to install it into another location. <C:\Windows> is the normal default)
- In this folder will be one or more entries for `x86_microsoft.flightsimulator.simconnect`. Backup these entries! Copy and paste it to another location i.e. <C:\Backup>
- Delete all version entries v 10.0.61242 AND LATER by highlighting it and pressing the DELETE key on your keyboard (confirm YES to delete) - DO NOT DELETE ANY OTHER ENTRIES!!! DO NOT DELETE v 10.0.60905!
- Reinstall the FSX update(s) in order as desired
- If the SimConnect files were not properly installed (which can occur in some situations), you may need to restore your backed-up entries
- A complete uninstall and reinstall of FSX may be required if none of these methods work. You can also contact Microsoft Technical Support for your FSX product.

Networked Simulation Configuration

Active Sky 2012 can be used in a networked configuration where FSX runs on a different computer (FSX Deluxe version is required).

Allowing this to work requires proper networking and security configuration on both computers. SimConnect will be used in networked client/server mode to facilitate the weather communications functions. Networked file access will be used to pass data between Active Sky 2012, XGauge and FSX station databases.

Sharing Folders

To properly use Active Sky 2012 in a networked configuration, you must have three folders shared on your FSX pc. If you are not familiar with how to share folders please search the internet as there are many helpful resources.

Folders to share

- C:\Program Files\Microsoft Games\Flight Simulator X (or your FSX installation folder)
- C:\Documents and Settings\[username]\Application Data\Microsoft\FSX (or if on Vista/7, C:\Users\[username]\AppData\Roaming\Microsoft\FSX)
- C:\Documents and Settings\[username]\My Documents\Flight Simulator X Files (or if on Vista/7, C:\Users\[username]\Documents\Flight Simulator X Files)

These folders should be shared with write permissions (Allow networked users to change my files).

If you are unable to locate these folders, you may need to enable "Show hidden and system files" in your VIEW options within Windows Explorer.

We recommend using the default share names for simplicity.

To confirm that you have sharing setup properly, attempt to access these shared from your remote/client computer. You should be able to view the content of these folders through Windows Explorer (via the Network/[computername]/[sharename] path)

Important requirements for networked configuration:

- FSX Deluxe version ONLY (standard does not include the SDK or required simconnect client installation files)
- FSX Service Pack 1 (or later) update applied (<http://www.fsinsider.com>)
- FSX SDK installed from FSX Deluxe Disk 1 (\SDK folder setup.exe)
- FSX SDK SP1A (or later) update applied (<http://www.fsinsider.com>)

- The computer to run FSX (hereby named SERVER) and the computer(s) to run SimConnect add-ons (hereby named CLIENT(s)) must be appropriately configured for normal IP networking
- Firewall software must be configured to allow SimConnect communications on the port you set (we suggest port 500) – This includes windows firewall – and applies to all computers, both SERVER and CLIENT(s)
- Shared Folders must be properly configured.

Step 1: Verify requirements

Look through the above requirements and ensure everything is setup properly and all FSX SDK & update installations have been run.

Step 2: Configure SERVER

There are two files which must be configured on the server. They are:

- [ApplicationDataFolder]\Microsoft\FSX\SimConnect.xml
- [MyDocumentsFolder]\Flight Simulator X Files\SimConnect.ini

ApplicationDataFolder is:

For Windows XP: C:\Documents and Settings\[USERNAME]\Application Data\

For Vista/7: C:\Users\[USERNAME]\AppData\Roaming\

MyDocumentsFolder is:

For Windows XP: C:\Documents and Settings\[USERNAME]\My Documents\

For Vista/7: C:\Users\[USERNAME]\Documents\.

There are example files located in your FSX SDK installation folder (normally C:\Program Files\Microsoft\Games\Flight Simulator X SDK\SDK\Core Utilities\SimConnect SDK\config). We suggest copying these files to the appropriate locations and then modifying as follows:

SimConnect.xml:

The values for *Protocol*, *Address* and *Port* must be modified. The other values should be left default.

For Protocol,

IPv4 should be used.

Example: <Protocol>IPv4</Protocol>

For Address,

use either the computer name or the physical IP address of this **SERVER**.

Example: <Address>192.168.1.102</Address>

For Port,

use any port you wish to enable for SimConnect communications. We suggest port 500. This port will

need to be enabled in any software firewall programs you are running (including windows firewall).
Example: <Port>500</Port>

Note: If you are using FSUIPC v4 with FSX, you may need to perform the following steps for proper networked operation:

1. First set the SimConnect.xml as described above.
2. Next set the <Scope> variable to global instead of local (<Scope>global</Scope>).
3. Run FSUIPC install (again if already installed). Your SimConnect.xml will then be properly configured.

SimConnect.ini:

The configuration values here are less important, however it is extremely helpful to have the debug console activated (console=1) to be able to see when SimConnect is appropriately making a connection and talking to the client applications.

We suggest the default values:

Change console to 0 (console=0) to disable to debug console.

Step 3: Installing SimConnect client on CLIENT(s)

There is a simconnect.msi installation file located in the SDK installation folder\SDK\Core Utilities Kit\SimConnect SDK\lib. This file should be copied to each CLIENT machine and run in order to install the appropriate SimConnect client files. Remember to update your SDK to SP1A (or latest) before doing this.

Step 4: Configure CLIENT(s)

There is a single configuration file needed on all clients:

[MyDocumentsFolder]\SimConnect.cfg

MyDocumentsFolder is:

For Windows XP: C:\Documents and Settings\[USERNAME]\My Documents\.

For Vista/7: C:\Users\[USERNAME]\Documents\.

There is an example file located in your FSX SDK installation folder (normally C:\Program Files\Microsoft\Games\Flight Simulator X SDK\SDK\Core Utilities\SimConnect SDK\config). We suggest copying this file to the appropriate location and then modifying as follows:

The values for *Protocol*, *Address* and *Port* must be configured exactly the same as you have configured for the server's SimConnect.xml file. We recommend the other values be left default.

Here is an example SimConnect.cfg file:

```
[SimConnect]
Protocol=IPv4
Address=192.168.1.102
Port=500
```

MaxReceiveSize=4096

DisableNagle=0

The SimConnect.cfg file needs to be set for all client computers that will be running addons that need to connect to FSX on the server.

Step 5: Test the configuration

Using the samples provided in the SDK, you can easily test for proper networked simconnect configuration. The AI Traffic.exe example program (located in the SDK Installation folder\SDK\Core Utilities Kit\SimConnect SDK\Samples\AI Traffic) should be run after the SERVER's FSX has been started. If successful, the AI Traffic program will bring up a console window indicating "Connected to Flight Simulator!". If unsuccessful, the program will run and end immediately without any "Connected" message shown. If you have the debug console enabled on server (console=1 in the SimConnect.ini file) then you'll see some messages indicating connection and communication with the client.

Step 6: Configuring Active Sky 2012

Once you have the shares and SimConnect configuration complete, you can configure Active Sky 2012 to properly work in networked configuration.

Active Sky 2012 needs to know the location of the main Flight Simulator X installation path as well as the FSX Appdata path. In addition, you may want to load FSX flight plans on the FSX computer into Active Sky 2012 on the client. Since your shares are already configured you simply need to point Active Sky 2012 to these locations. To do this, simply run Active Sky 2012. Active Sky 2012 will identify that FSX is not installed on the client machine and automatically ask for and save the correct network share locations.

If you need to manually specify these locations, you can edit the registry key values (on the client machine) as follows:

- **HKEY_CURRENT_USER\Software\HiFi\AS2012\FSXMyDocsPath:** Set this to your desired flight plan folder, which should be shared on the FSX computer as \\fsxcomputername\Flight Simulator X Files
- **HKEY_CURRENT_USER\Software\HiFi\AS2012\FSXPath:** Set this to your desired Flight Simulator X installation path, which should be shared on the FSX computer as \\fsxcomputername\Flight Simulator X
- **HKEY_CURRENT_USER\Software\HiFi\AS2012\FSXAppDataPath:** Set this to your desired FSX AppData Path, which should be shared on the FSX computer as [\\fsxcomputername\FSX](#)

Step 7: Configuring X Gauge

XGauge needs to be installed into the FSX installation. To do this, you can run the XGauge Installation Wizard and point it to the proper shared locations.

Alternatively, you can copy the entire XGaugeWizard folder (located in your Active Sky 2012 installation folder i.e. C:\Program Files\HiFi\AS2012\XGaugeWizard) to the FSX machine (any location) and run the XGaugeWizard.exe file inside there. The files will be appropriately copied into FSX and the gauge will be installed into the aircraft.

Active Sky 2012, when running, will automatically update the imagery as requested by XGauge, even when on the other computer.

NOTE: Client and Server Usage Warning

If you are using WideFs or SimConnect over a network and Active Sky 2012 is installed as a client and you also have an instance of FSX installed on the client PC (that you do not intent to use) you must ensure that the path(s) in the Active Sky 2012 registry setting for FSX point to your server version, not the client version. This does not affect most users.

WARNING: Edit the registry at your own risk. Modifying improper registry keys can result in computer problems.

The registry settings that need adding if you are having an issue with Active Sky 2012 locating your server version are:

HKEY_CURRENT_USER\Software\HiFi\AS2012\FSXPath

HKEY_CURRENT_USER\Software\HiFi\AS2012\FSXAppDataPath

These paths must point to your server versions i.e. (Examples only, enter your correct paths not the values below).

\\VISTA-DESKTOP\Flight Simulator X\ for the FSX installation path

\\Vista-desktop\fsx\ for the FSX appdata path

Credits

We'd like to thank everyone for their support of our continued development of weather simulation products. Without your purchase and support, we would not be able to work on Active Sky. Thank YOU for enabling us to do what we love to do!

We'd also like to thank a few organizations and individuals who have been critical to our success and to that of the entire Flight Simulation Community: AVSIM, Peter Dowson, SimFlight, SimMarket, and VATSIM. Thank you!

Additionally, HiFi would like to say thanks to our Beta Team who helped contribute to make Active Sky what it is today. We have members on the "Core" Initial Beta Team who've been with us from the beginning, and continue to work just as hard today as they did 10 years ago to help guide us and help put the final touches on our software. Our recently recruited Quality Assurance Team provides pre-release review and testing before it gets labeled "RTM". They work hard to make sure the software works solidly and as intended on a wide range of configurations, and greatly contribute to the overall quality of the product. Our Beta Team members are instrumental and without them we'd never be able to achieve the level of fidelity and quality in our products that we strive for. To the entire Beta Team, Thank you!

Finally, HiFi must thank its own Development and Support team members, who have tirelessly pursued innovation, integrity and quality to help bring out and support what we think is the most sophisticated weather engine ever produced. When called to duty, they have delivered above and beyond, and without them we'd just be another software company. Thank You!

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