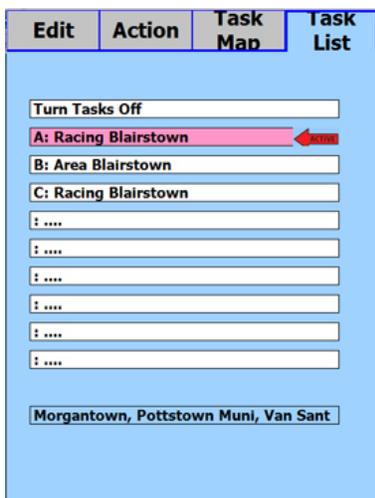


TASK FUNCTION TUTORIAL



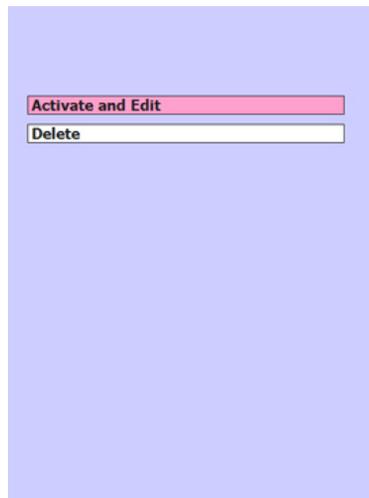
TASK LIST, EDIT AND ACTIVATE

TASK LIST SCREEN



The Task List Screen shows a table with columns: Edit, Action, Task Map, and Task List. The first row is "Turn Tasks Off". The second row is "A: Racing Blairstown" with a red arrow pointing to it. The third row is "B: Area Blairstown". The fourth row is "C: Racing Blairstown". Below these are several rows with "...." in the Task List column. At the bottom, there is a button labeled "Morgantown, Pottstown Muni, Van Sant".

TASK ACTIVATE AND EDIT



The Task Activate and Edit screen has a pink header "Activate and Edit" and a white input field labeled "Delete".

- The Task List Screen displays the task inventory, provides tools to create and edit tasks, or turns off ClearNav task functions.
- Select "**Turn Tasks Off**" to disable all task metrics and messaging on the ClearNav Moving MapScreen.
- As you move through the tasks in the directory rows, the initial waypoints will be displayed in a window at the bottom of the screen to facilitate task selection.
- Select a task or blank row to display the Task Edit/Control function menu:
- **Activate and Edit Returns** to the Task Edit. The red "Active" arrow is moved to the selected and activated task in the background.
- **Delete** - The selected task - No confirmation will be requested.



TASK EDIT

The Task Edit / Action / Map screens are used to define the task geometry and turnpoints. Tasks are typically created before takeoff, but can be modified easily in flight using system default values and drop-down lists.

EDIT - allows entry of task parameters - 1/ Task Type 2/ Rules.-3/Turnpoints-4/ Turnpoint Radius

1. TASK TYPE is selected from a list of five options.

2. RULES for Start, Waypoint, and Finish geometry are specified in the rules screen - which defaults to values appropriate for the task type. See the table below for Task Rules & Defaults.



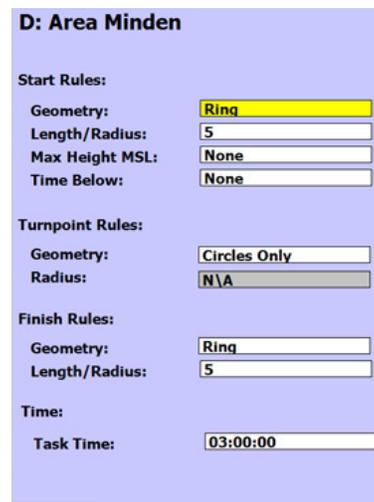
The Task Edit screen for "D: Area Minden" shows "Type: Area". It has fields for "Start: 5.0mi Ring", "TP: Circles Only", "Finish: 5.0mi Ring", and "Time: 03:00:00". Below is a table of waypoints:

| | | | |
|----|-----------|-----|----|
| 1 | Minden | -- | -- |
| 51 | Tiger | 43 | 10 |
| 14 | Coleville | 69 | 10 |
| 2 | Finish | 33 | -- |
| | | 145 | |

At the bottom is a button labeled "Set TP Dimensions".



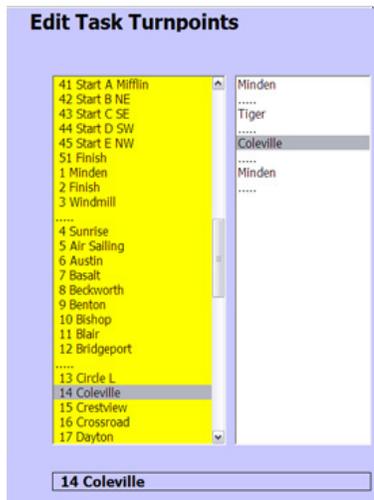
The "Choose a Task Type" screen has five radio button options: Racing, Area, MAT, FAI, and Recreational Task. The "Area" option is selected.



The "D: Area Minden" Rules screen has three sections: Start Rules, Turnpoint Rules, and Finish Rules. Each section has fields for Geometry, Length/Radius, Max Height MSL, and Time Below. The Start Rules section has a "Ring" button highlighted. The Turnpoint Rules section has "Circles Only" and "N/A" buttons highlighted. The Finish Rules section has "Ring" and "5" buttons highlighted. The Time section has a "03:00:00" button highlighted.

3. TURNPOINTS are selected from the window on the left and are inserted into the selected position in the right window.

- The Controller **Left/Right** Keys selects the windows. The **Up/Down** Keys selects the row - highlighting a Turnpoint to copy - or a target location to insert.
- The elipsis ('.....') represents a blank row.
- Turnpoints in the right window are deleted by inserting an elipsis in place of the turnpoint.



4. RADIUS geometry for each Turnpoint can be set individually, if the default value is not desired.

- Highlight the Turnpoint and hit the Controller select button to display the radius adjustment screen.
- The Controller Up/Down keys will change the values.
- Start/Finish Geometry is adjusted in the window below Task Type.



ClearNav enforced rules, defaults and task characteristics follow. N/A indicates no value entry is allowed.

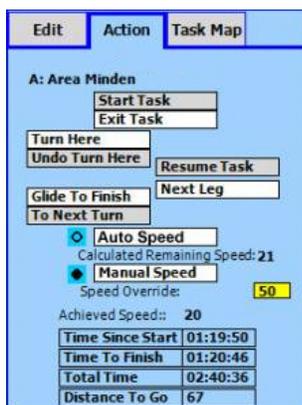
TASK TYPE RULES & DEFAULTS

| CATEGORY | RULE | RACING | AREA | MAT | FAI |
|------------------|----------------|--------------|---------------|--------------|------------|
| START | Geometry | Cylinder, US | Cylinder, US | Cylinder, US | FAI Sector |
| | Length/Radius | 1.0 | 1.0 | 1.0 | N/A |
| | Max Height MSL | 5000 | 5000 | 5000 | 5000 |
| | Time Below | 2 | 2 | 2 | N/A |
| | Speed Limit | None | None | None | None |
| TURNPOINT | Geometry | Point | Circles Only | Point | FAI Sector |
| | Radius | 1 Mile | Area Specific | 1 Mile | N/A |
| FINISH | Geometry | Ring | Ring | Ring | FAI Sector |
| | Length/Radius | 1.0 | 1.0 | 1.0 | N/A |
| | Min Height MSL | 499 | 499 | 499 | 499 |
| | Max Height MSL | None | None | None | None |
| TIME | Sunset | HH:MM:SS | HH:MM:SS | HH:MM:SS | HH:MM:SS |
| | Task Time | N/A | HH:MM:SS | N/A | N/A |



SETUP - TASK ACTION AND TASK MAP SCREENS

The Task Action and Task Map Screen are typically used in flight to control the task ... provide guidance on required Turn Area penetration ... or perform speed/time calculations. These screens are also available using the Ribbon Menu Task function.



The Task Action Screen provides centralized monitoring and control of all task phases. Refer to the table below to understand control features and impact.



The Task Map Screen provides an overview of the entire task and supplies Turn Area guidance using actual or entered speed values.

TASK ACTION SCREEN CONTROLS

CONTROL

ACTION

START TASK

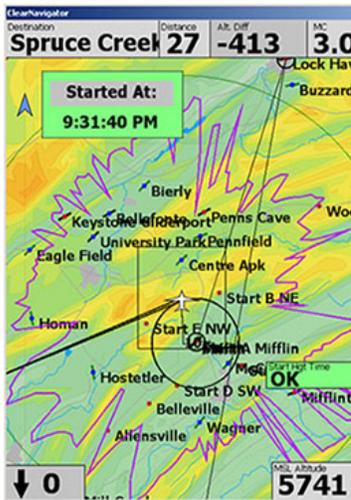
Manually starts the task. Since the task will start/re-start automatically when you exit the start cylinder or cross the start line, you should never really need this option.

A manual or automatic task start will display the "Task Started" message box.



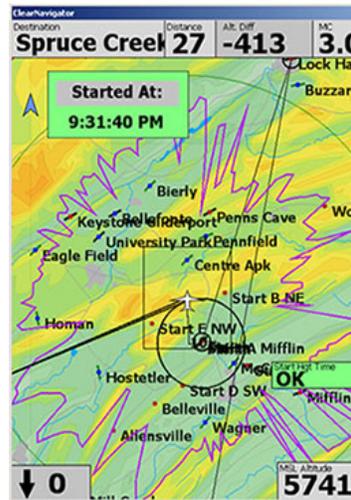
Task Start - Maximum Height Control

ClearNav start logic will also advise if the pilot is adhering to the pre-start start altitude rules. If the maximum start cylinder altitude is exceeded, a red alert will display until altitude falls below the cylinder maximum. At that point, a timer will display to count down the time below the cylinder maximum. The status will go to a green 'OK' when the time below maximum is satisfied.

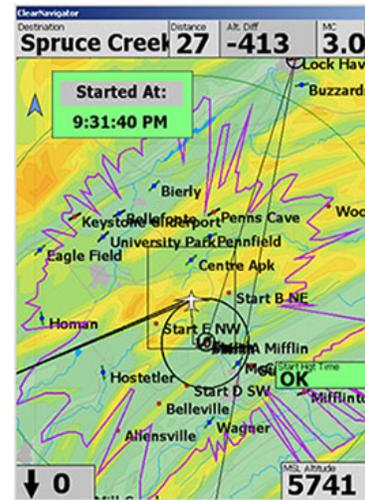


A Start was initiated ... and the pilot is below cylinder maximum altitude.

Start With Green Altitude Status



Warning that current altitude is above cylinder maximum



Count-down timer is activated when altitude falls below cylinder maximum.

ClearNav will monitor you time above the start cylinder maximum - outside the cylinder perimeter for an additional 10KM. This will insure you have an accurate status if you enter the cylinder from beyond the perimeter to start or re-start.



Start height control messages are advisory - you will get an automatic start (or can initiate a manual start) if ClearNav detects you have exited the start cylinder. You have to monitor the height control messages to insure you were below the maximum start height for the required duration.

EXIT TASK

Aborts the task. All task metrics are erased.

TURN HERE

The task is redrawn with this point as the turnpoint - the active waypoint is changed to the next waypoint in the task.

UNDO TURN HERE

Cancels prior "Turn Here" if still in current turn area. Resumes navigation to the calculated ideal turnpoint within the current turn area.

RESUME TASK

Restart task after it has been suspended – i.e. when you have manually selected a Destination Turnpoint after the task is started. All task metrics from the last start are retained.

NEXT LEG

Commands navigation to next task leg for area tasks.

GLIDE TO FINISH

Commands calculation/display of 'Glide to Finish' Metrics.

- The Final Glide Window and Distance Window display the altitude difference and distance for a final glide around the remaining task turnpoints to the finish.
- The Destination Window changes to "To Finish".
- Glide To Finish button is grayed-out and the To Next Turn button is enabled.
- ClearNav navigates to the closest point on the bottom circumference of the Finish Cylinder. After crossing the circumference, ClearNav switches to the center of the Finish Cylinder at ground level as the navigation point.
- The altitude margin (Arrival Height AGL) value set in the Final Glide settings is added to the Finish Cylinder MSL altitude for calculating final glide margin.

TO NEXT TURN

Resumes display of final glide and distance to the active task waypoint.

ACHIEVED SPEED

Display of speed achieved from the last start to your current position.