

Special Circumstances

Flight operations occur at the athletic fields of Lehigh University's Goodman Campus (LUGC - see Figure 2). The area is located at $40^{\circ} 35.365'N$ $75^{\circ} 21.549'W$ at an elevation of 330 ft MSL (100 m). The area is in uncontrolled airspace, under the ABE Class C airspace and outside its surface area. It is more than 5 miles from both ABE and XLL.

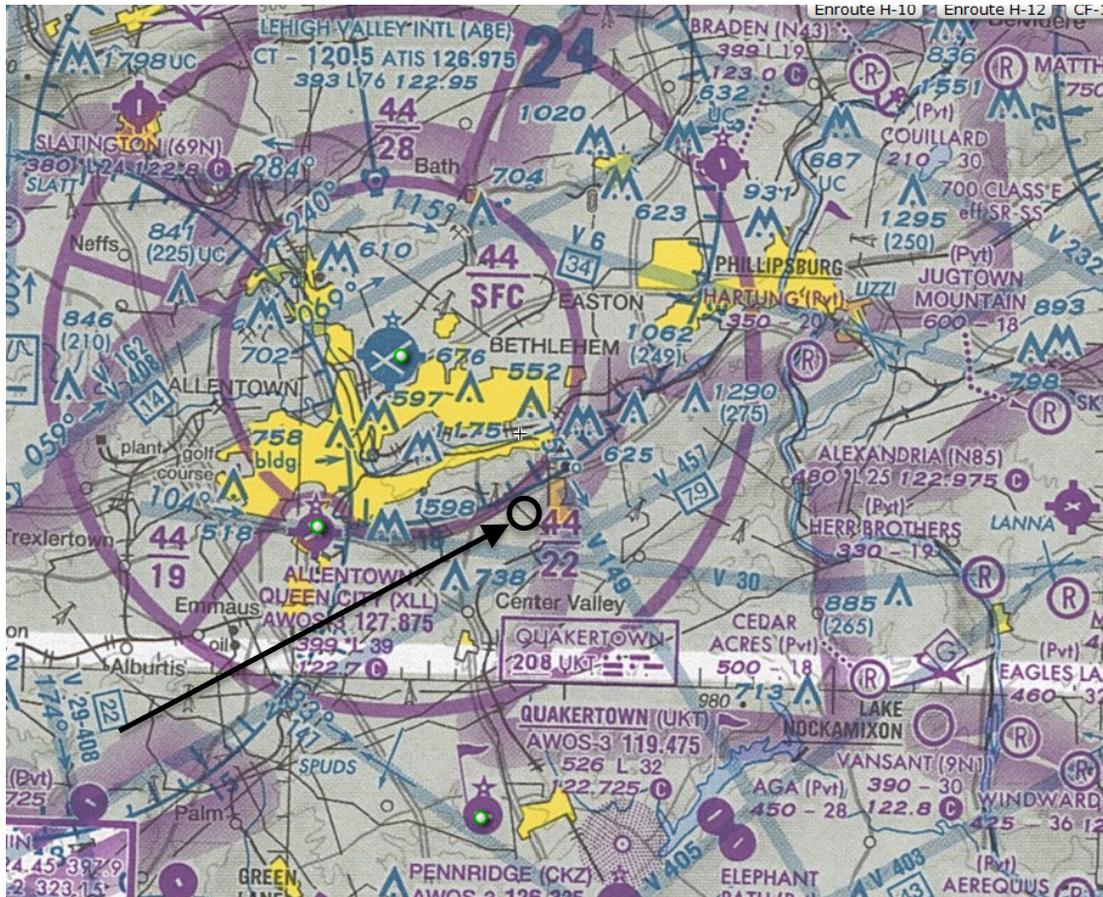


Figure 1: VFR Area sectional for region around Lehigh University's Goodman Campus (New York sectional). LUGC marked with black circle and arrow.

A satellite photo of the Lehigh University's Goodman Campus is shown in Figure 2. It is surrounded by forest and farmland that are sparsely populated. Directly to the north, between LUGC and ABE, is a mountain range running in the east-west direction. This mountain range is about 870' high (over 500' above field elevation at Goodman). The closest built-up area is Hellertown, approximately 0.6 miles (1.0 km) east of the flight area boundary. Interstate highway I-78 is running east-west 0.16 miles (0.25 km) north of the flight area boundary.

Figure 3 shows the UAV flight operations area (within the blue quadrilateral) and the lost link waypoint. UAV launch and recovery will occur from the middle of the operations area. Observers will be stationed to keep a lookout for pedestrians and joggers/cyclists, and flight operations will be terminated by normal landing when non-authorized persons are in the flight operations area.

Table 1 provides coordinates for waypoints and the center of the flight operations area.

To minimize the impact of UAV operations on other activities at LUGC flights will only occur on weekdays 09.00-16.00 and on weekends when activity at LUGC is low. Flights will not occur during events at Goodman Stadium (typically only 8 times per year). Flights will not occur when sports practices are being conducted in the vicinity. Takeoff and landing will follow the procedures outlined in the Launch and Recovery document.

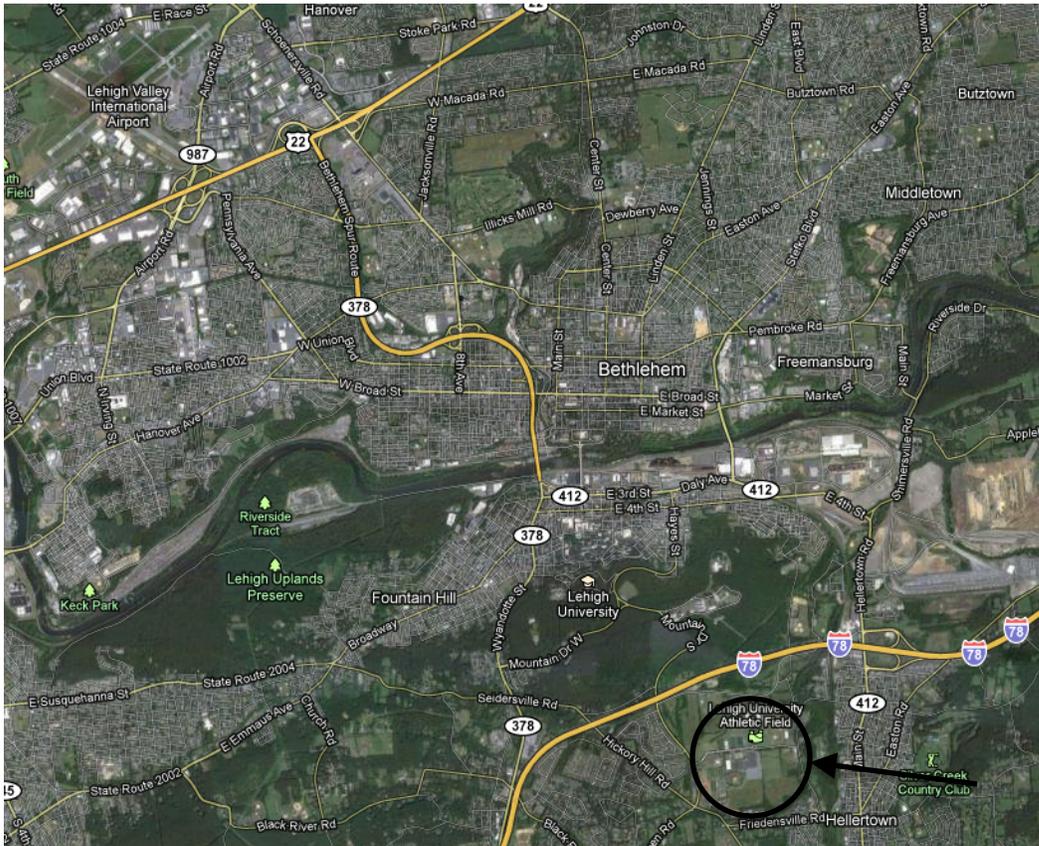


Figure 2: View of Bethlehem. Lehigh University's Goodman Campus is located to the SE (marked by a circle and arrow). Lehigh Valley International airport (ABE) is located in the NW corner.



Figure 3: Detail view of UAV operations area. The blue outline shows the flight operations area. The lost link waypoint is labeled; take-off will occur by hand-launch in to the wind from the middle of the operations area.

Table 1: Waypoint coordinates

Description	Identifier	Lat	Lon
Lost link	LL	40° 35.406'N	75° 21.464'W
Corners of boundary	C1	40° 35.323'N	75° 21.505'W
	C2	40° 35.437'N	75° 21.326'W
	C3	40° 35.480'N	75° 21.349'W
	C4	40° 35.467'N	75° 21.517'W