



Directions to MABI East (Route 10) Monitoring Sites at: Marsh-Billings-Rockefeller NHP, Woodstock, VT

Route established: 2006

Route Notes:



- Observers should contact the park a minimum of 1-week before conducting a survey to notify park staff of their visit.
- All bearings in these directions are **True North**, your compass should be adjusted for 15° West to account for the declination (last calculated 8/2011). If your compass does not support declination adjustments, just add 15° to all the bearings in this document.

- Estimated distances are given in paces, and average 1.4m per pace (pace = two steps).
- Tree diameters were estimated at breast height (dbh @ 1.67 m).
 - All listening stations are marked with a diamond-shaped, white, metal sign labeled "NPS Bird Study, Route 10 (East), Point: #" (where # indicates the Point Number) and two reflective "fire-tacks".
 - Routes, where they leave an established trail, are marked with a single fire-tack and a white "NPS Bird Study" sign on the side of the tree facing away from the trail.
- Sections of routes where short distances of off-trail travel are necessary are marked with fire-tacks every 15 meters. In cases where the observer is expected to navigate longer distances cross-country a white, diamond shaped "NPS Bird Study" sign is also used and labeled with the following information: Route 10 (East), Pt. # to Pt. #" (where Pt. # to Pt. # indicates the two listening stations being connected).
- Although using a GPS to run this route can be helpful, the written directions provided below are designed to only require a compass to accurately find the points.



Route Access and Parking: Park at the Billings Farm and Museum, east of Route 12 from the park. To enter the park, cross west over route 12 on foot and walk up the entrance road bearing left at the first fork. Walk uphill past the Carriage Barn (on your right), and up to the back of the Mansion (on your left, small garage on your right).

Point to Point Directions

POINT 1 – Starting from the Mansion walk west (uphill) to the Belvedere and take the right fork in the carriage road. Continue uphill to the Horse Shed. At the Horse Shed take the second left onto Cemetery Road. Walk 130 paces (180 m) to a large white pine (36" dbh) on right of trail. White bird study sign is installed on back of this tree. Point is visible 22 paces (30 m) from the trail on a 324° bearing. Point is marked with two fire-tacks and a white sign on a 7" diameter sugar maple.

POINT 2 – From Point 1 retrace your steps on Cemetery Road for 66 paces (90 m) to trail on left. Take this unnamed trail 144 paces (200 m) north to a signed intersection. Turn left towards North Peak/Precipice Trail. Follow trail 76 paces (105m) to a signed trail intersection and turn right onto North Peak Trail. Travel uphill on trail for 110 paces (150 m) until reaching a large hemlock (22" dbh) almost in the middle of the trail – just left of center. A smaller hemlock a few meters down and off trail to the right is marked with a white bird survey sign facing away from the trail. The point itself cannot be seen from the trail. At this point head downhill at a 30° bearing for 50 paces (70 m). Point is marked with two fire-tacks and a white sign on a 15" diameter white ash.

POINT 3 – After returning to the trail from Point 2 walk another 120 paces (170 m) farther along North Peak Trail. Look on your left for a large dead white birch (22" dbh) and hemlock (18" dbh) twisted together. A white bird study sign is installed on the back of the hemlock. The point is visible 33 paces (45 m) from the trail on a 194° bearing. Point is marked with two fire-tacks and a white sign on a 5" diameter sugar maple.

POINT 4 – After returning to the trail from Point 3 walk another 160 paces (225 m) farther along North Peak Trail. Look on your right for a 11" sugar maple marked with two, blue plastic diamonds (13" hemlock to right of maple). If you get to the trail intersection with One Less Traveled Trail, you have gone 30 paces (40 m) too far. At the double blue diamonds, the point is visible from the trail to your left on a 188° bearing at 22 paces (30 m). Point is marked with two fire-tacks and a white sign on a 5" diameter white ash.

POINT 5 – After returning to the trail from Point 4 walk another 30 paces (40 m) farther along North Peak Trail to the intersection with One Less Traveled Trail (OLT Trail). Turn left onto OLT and walk 160 paces (224 m). Look for a large white birch (14" dbh) about 10 m to the left of trail just before prominent (but small) rise/crest in trail bed. The point is visible 18 paces (25 m) from the trail on a 196° bearing. Point is marked with two fire-tacks and a white sign on a 3" diameter American beech.

POINT 6 – After returning to the trail from Point 5 walk another 190 paces (270 m) farther along One Less Traveled Trail (ignoring intersection with North Peak Trail to left at 150 paces [210 m]). At 190 paces look for a large white oak (30" dbh) on your left. Point is highly visible 5 m to your right. Point is marked with two fire-tacks and a white sign on a 3" diameter sugar maple.

POINT 7 – After returning to the trail from Point 6, retrace your steps on One Less Traveled Trail for 100 paces and take the large, unmarked trail to your left. Travel downhill to the gravel carriage road and turn right (Mountain Road). Travel on Mountain Road for 90 paces (125 m). Look for a large yellow birch (20" dbh) to your left which is marked with a fire-tack and a white bird survey sign facing away from the road. The point itself is not visible from the road. Leave the road to the left at a 12° bearing and travel 38 paces (50 m) down to the brook (Pogue Brook). Point is marked with two fire-tacks and a white sign on a 16" diameter sugar maple overlooking Pogue Brook.

POINT 8 – After returning to the trail from Point 7, continue down Mountain Road for 230 paces (320 m). Turn left at the sign onto the Pogue Brook Trail. Take the Pogue Brook Trail for 70 paces (100 m) and look for an American beech (14" dbh) on your right marked with a fire-tack and a white bird survey sign facing away from the trail. The bird point is not visible from the trail, so leave the trail to the right at a 30 bearing. Hike downhill for 34 paces (50 m) towards the brook. Point is marked with two fire-tacks and a white sign on a 7" diameter maple.

POINT 9 – From Point 8, cut cross-country due east following the white bird study signs and keeping the Pogue Brook on your left. Total straight-line distance between Point 8 and Point 9 is about 180 paces (250 m). Intermediate route trees are marked with one fire tack and a white bird study sign labeled with "Pt 8 to Pt 9". The actual point is marked with two fire tacks and a white sign labeled "Point 9" nailed to a 16" diameter sugar maple.

POINT 10 – From Point 9, cut cross-country due east following the white bird study signs and continuing to keep the Pogue Brook on your left. Total straight-line distance between Point 9 and Point 10 is 250 m. Intermediate route trees are marked with one fire tack and a white bird study sign labeled with "Pt 9 to Pt 10". The actual point is marked with two fire tacks and a white sign labeled "Point 10" nailed to a 7" diameter hemlock.

To return to the parking area: Head downhill from Point 10 until you reach the Stewardship Trail. Follow the Stewardship Trail to the right back to the park entrance (bearing left at the trail fork to stay parallel with Route 12).

GPS Coordinates – Datum NAD 83, UTM Zone 18T (coordinates field verified: 2011)

Point Name	Latitude (Dec. Deg)	Longitude (Dec. Deg.)	UTM E	UTM N
10.01 (MABI East)	43.629893	-72.523924	699750	4833750
10.02 (MABI East)	43.632141	-72.523832	699750	4834000
10.03 (MABI East)	43.632209	-72.526928	699500	4834000
10.04 (MABI East)	43.632276	-72.530024	699250	4834000
10.05 (MABI East)	43.632343	-72.533121	699000	4834000
10.06 (MABI East)	43.632410	-72.536217	698750	4834000
10.07 (MABI East)	43.634592	-72.533028	699000	4834250
10.08 (MABI East)	43.634525	-72.529932	699250	4834250
10.09 (MABI East)	43.634457	-72.526836	699500	4834250
10.10 (MABI East)	43.634390	-72.523739	699750	4834250

Map showing preferred route for visiting Northeast Temperate Network Forest Bird Monitoring Sites along survey Route 10 (East) at Marsh-Billings-Rockefeller National Historical Park, Woodstock, VT.
Map generated using Google Earth.

