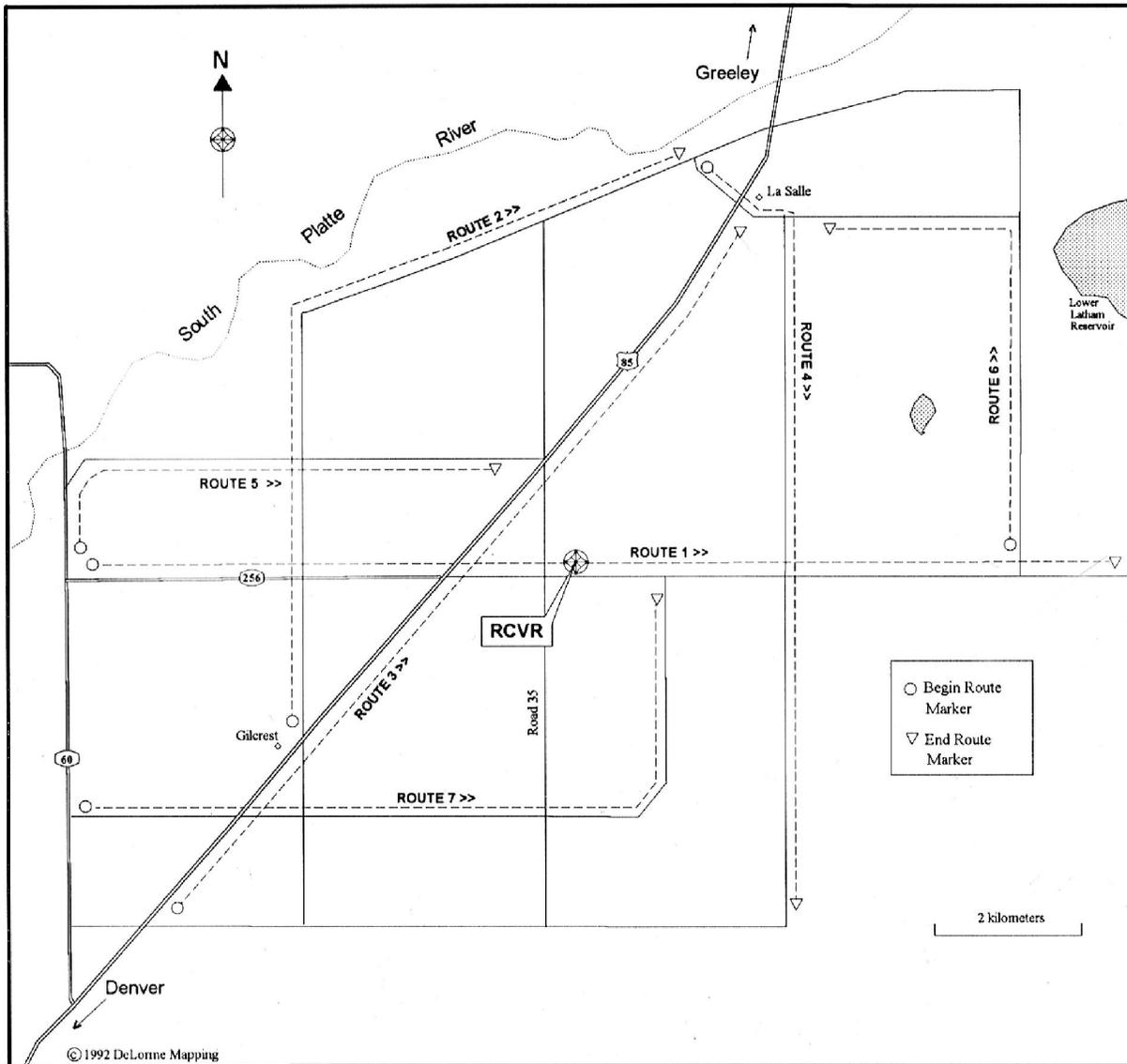


4. MEASUREMENT LOCATIONS

The measurements were taken in three different cell environments: flat rural, hilly rural, and urban high-rise. The flat rural area consisted primarily of open spaces and farmland. The receiver was located at the center of the cell along Route 256 east of the intersection with Road 35 between the towns of Gilcrest and La Salle, Colorado. This site was approximately 45 km east of the foothills of the Rocky Mountains. Throughout most of the cell, the elevation varied by only about 30 m. There were some small hills in the far southeast corner of the cell with elevations up to 80 m above the receiver site. Figure 4.1 shows a map of this cell; the measurement routes followed by the transmitter are marked on this map.

The hilly rural area consisted primarily of open space areas with some valleys and rolling hills. The receiver was located at the U.S. Department of Energy Wind Site off of Highway 128 between Boulder and Golden, Colorado. The elevation varied by about 300 m throughout this cell. The foothills of the Rocky Mountains were approximately 5 km west of the receiver site. A map of this cell showing the measurement routes taken by the transmitter van is shown in Figure 4.2.

Figure 4.3 shows a map of the urban high-rise cell, with the routes marked where the transmitter van travelled. The receiver was located on the top of a building 103 m aboveground at 410 17th St. in the center of the high-rise district in Denver, Colorado. This area consists of closely spaced buildings with heights typically ranging from 25 to 35 stories. The elevation of the terrain throughout this cell varied by about 85 m.



MAP FROM DELORME'S MAPEXPERT, FREEPORT, MAINE.

Figure 4.1. Measurement routes in the flat rural cell.

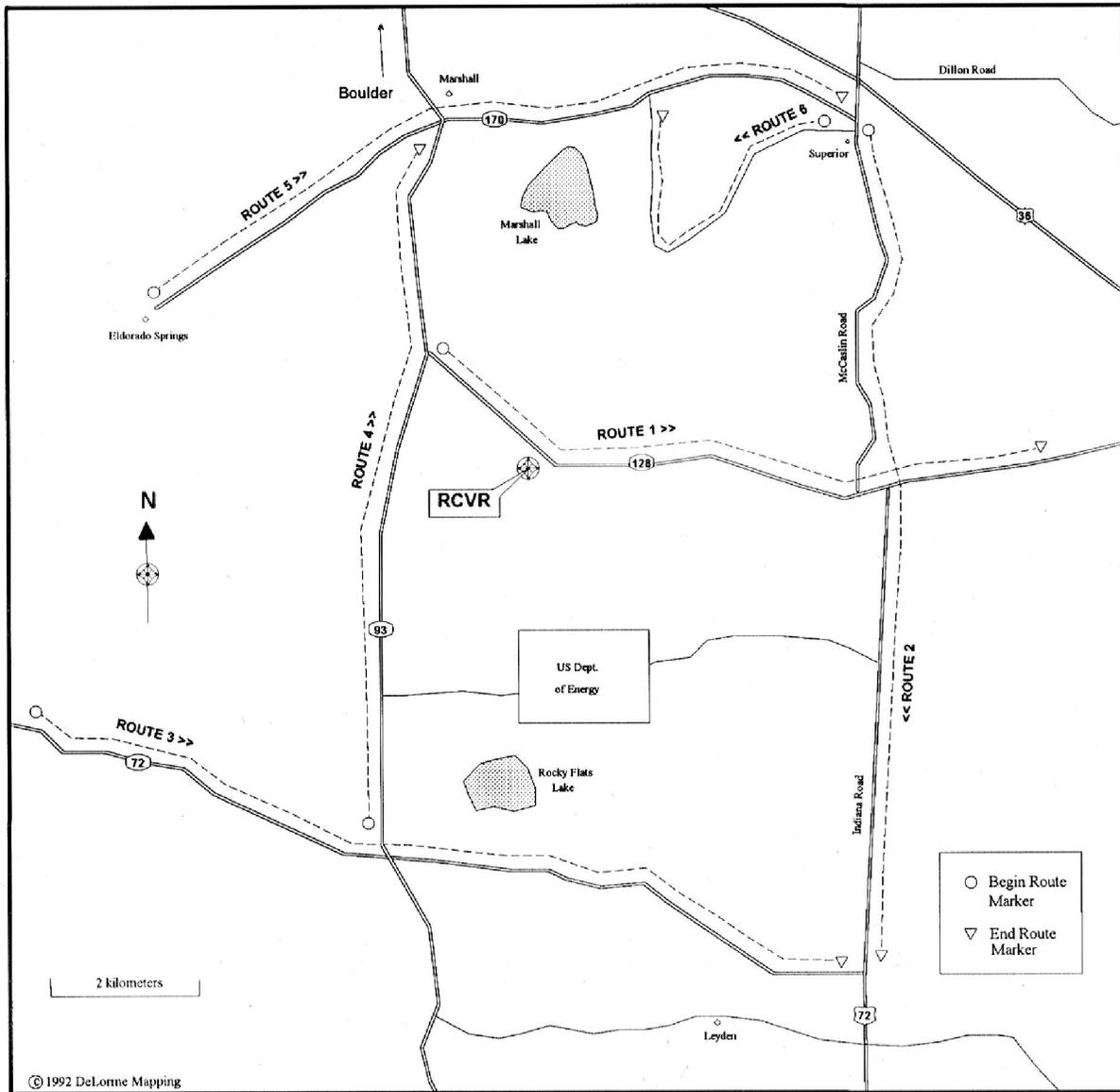
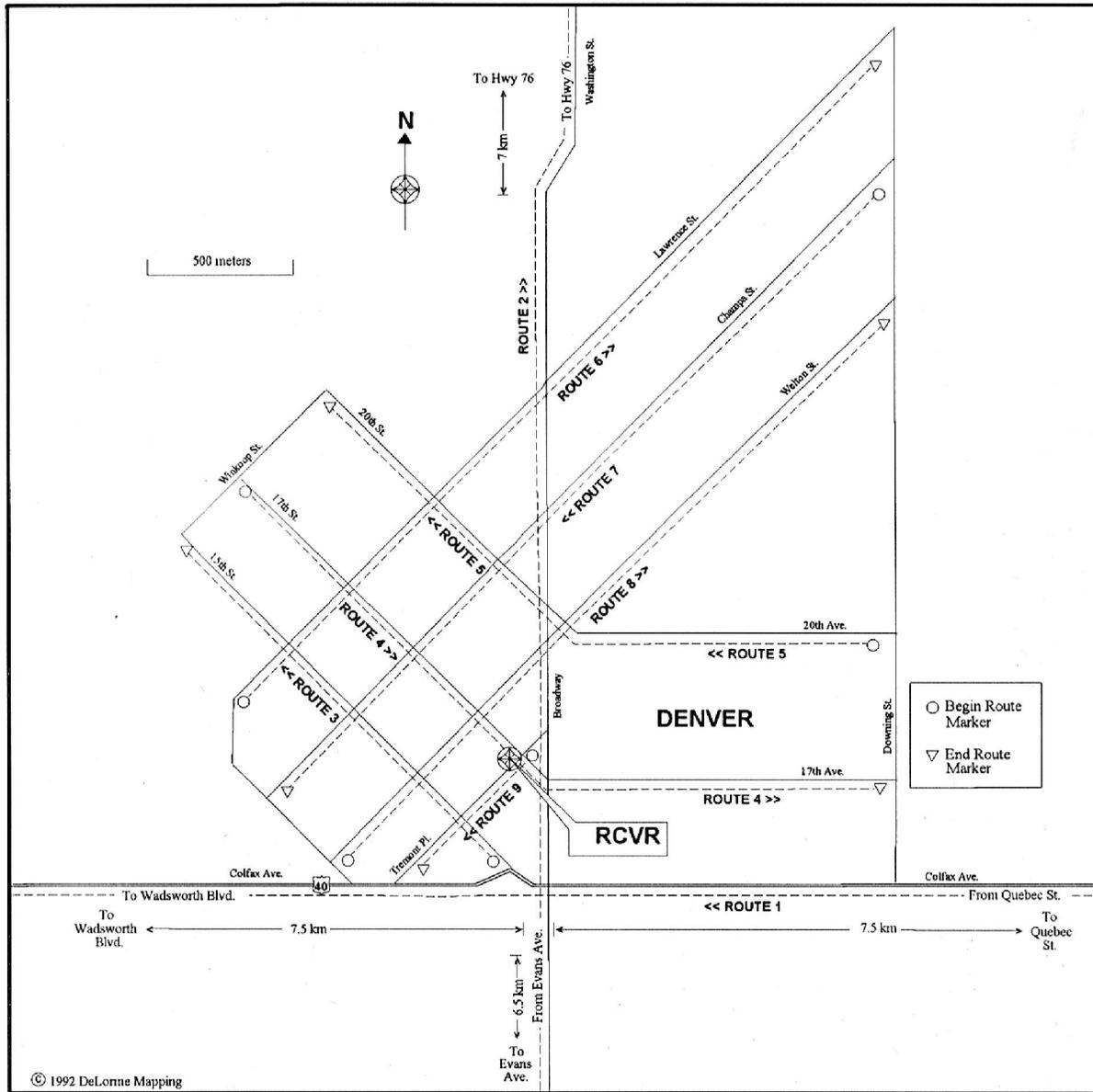


Figure 4.2. Measurement routes in the hilly rural cell.



MAP FROM DELORME'S MAPEXPERT, FREEPORT, MAINE.

Figure 4.3. Measurement routes in the urban high-rise cell.