EXHIBIT I

1. SUMMARY OF PROPOSED EXPERIMENTATION

Galaxy Personal Communications Services ("Galaxy PCS") is a subchapter S corporation incorporated in the state of Florida. Galaxy PCS provides consulting services to equipment manufacturers and potential and actual personal communications services ("PCS") licensees. The proposed experimental authority described below will enable Galaxy PCS to assist manufacturers and companies successful in acquiring licenses in the design of PCS systems. Galaxy PCS' proposed experiments will be coordinated with various PCS vendors and service providers and will be designed to evaluate PCS technologies and equipment and measure various propagation characteristics.

Galaxy PCS seeks experimental authority for two years beginning in November 1995 to perform a series of field tests on an MTA-wide basis as indicated in Exhibit II. These tests will require a minimum of three fixed base stations and a number of low power vehicle-mounted or hand-held transceivers. The equipment will be operated at the sites specified in the instant application. In addition, continuous wave ("CW") transmitters will be installed at fixed sites on a temporary basis, allowing RF transmission over an area of less than 15 miles in radius.

Joint testing will be conducted with equipment manufacturers and operators to evaluate interoperability issues. Galaxy PCS also anticipates including other experimental licensees operating in the same locations in order to evaluate interoperability of various equipment. Galaxy PCS' experimentation will focus on both Code Division Multiple Access ("CDMA") and Time Division Multiple Access ("TDMA") technologies.

2. PARTICULARS OF OPERATION (ITEM NO. 4)

Galaxy PCS plans to test various equipment to determine propagation loss using a narrowband single tone signal, wideband propagation characteristics using a direct sequence spread spectrum signal, and complete TDMA and CDMA PCS hardware performance investigations. Specific frequencies in the band specified (1850-1990 MHZ) will be selected based on availability at the equipment site.

CW signals in the 1850-1990 MHZ range will be used in narrowband tests to evaluate propagation properties based upon penetration losses due to vegetation, buildings, and vehicles. Wideband experiments will utilize a pseudorandom noise ("PN") spread spectrum carrier in the 1850-1990 MHz band and a correlation receiver to measure multipath delay spread. The chip rate of the PN spreading sequence and the transmit filter are chosen so that the resulting

bandwidth is less than 30 MHz. The average transmit power density over the band will be less than 0.17 Watts/Hz.

System trials will be conducted with equipment type-accepted for use and will utilize digital equipment based on CDMA and TDMA technologies. As noted, trials will be conducted jointly with the manufacturers of the various systems being tested and operators who might potentially purchase them from these manufacturers.

3. FREQUENCY COORDINATION

Galaxy PCS' proposed experiments will be conducted in full coordination with authorized users in the area to prevent any harmful interference. Galaxy PCS will discontinue experimental activity whenever such activity causes harmful interference to primary users. Where appropriate, experimental transmissions will only be initiated with full concurrence from the primary users of the spectrum. Representatives of authorized users will be provided with the telephone numbers of Galaxy PCS personnel who will respond immediately should problems arise.

4. TRANSMITTING EQUIPMENT TO BE INSTALLED (ITEM NO. 13)

In joint experiments with equipment manufacturers and operators, the equipment will be acquired by Galaxy PCS, modified and installed by Galaxy engineers, and fully supported in all operational and technical aspects by Galaxy's technical staff. As noted, Galaxy PCS may utilize both TDMA and CDMA equipment in order to obtain comparison performance data. Such comparison tests will also provide important data for manufacturers in the development and enhancement of PCS technology.

Galaxy PCS also seeks authority to engage in limited experimental user studies on a temporary basis. These studies would be performed in full cooperation with the successful auction winners in the respective MTA (Major Trading Area) or BTA (Basic Trading Area) under analysis. These studies will be used to determine consumer preferences regarding transmission quality, ease of access, etc.

5. PURPOSE OF RESEARCH AND EXPERIMENTATION

The initial stage of experimentation will be used to correlate studies of RF loss, delay spread and signal penetration and engineering calculations in order to improve models used in cell site design, thereby reducing the potential for undesired interference.

The next stage of the proposed trial will consist of installation of simulated base stations utilizing the aforementioned CW test transmitters capable of TDMA technologies such

as GSM, IS136 and direct sequence CDMA. The purpose of this experiment will be to determine actual system coverage, test RF aspects of specific PCS system technology, evaluate collocation with existing cellular equipment where applicable and investigate coverage performance and antenna requirements. Data obtained will be shared with manufacturers for purposes of improving PCS equipment engineering and design.

6. PUBLIC INTEREST BENEFITS

Galaxy PCS' proposed experimentation will serve the public interest in the following ways:

- Knowledge gained from these trials will facilitate an efficient and reliable wireless communications system for public use. Without these trials, and calibration of the propagation prediction models mentioned above, the chance of "nulls" or "holes" increases. Thus, it is in the public interest for Galaxy PCS to conduct these trials to improve the quality of PCS system designs.

- Analysis of levels of existing microwave users in the areas where Galaxy PCS will be conducting these trials will provide operators of incumbent microwave stations and PCS licensees with information as to which incumbents should be transitioned to new microwave bands.

- The proposed experimentation will assist manufacturers and operators in optimizing the development and design of PCS equipment, resulting in more efficient and timely deployment of PCS systems.

- Analysis of field results will aid operators in determining interference levels. The trials will also assist Galaxy PCS in obtaining measurements for correlating indoor applications such as wireless PBX and local area networks.

7. COMPLIANCE WITH PART 17 OF THE COMMISSION'S RULES (ITEM NO. 15)

The experimentation proposed by Galaxy PCS will comply with Part 17 of the Commission's rules. Galaxy PCS will not erect any antenna which extends more than 6 meters above existing structures. Accordingly, Galaxy PCS is exempt from notifying the FAA pursuant to § 17.14(b) of the Commission's rules.

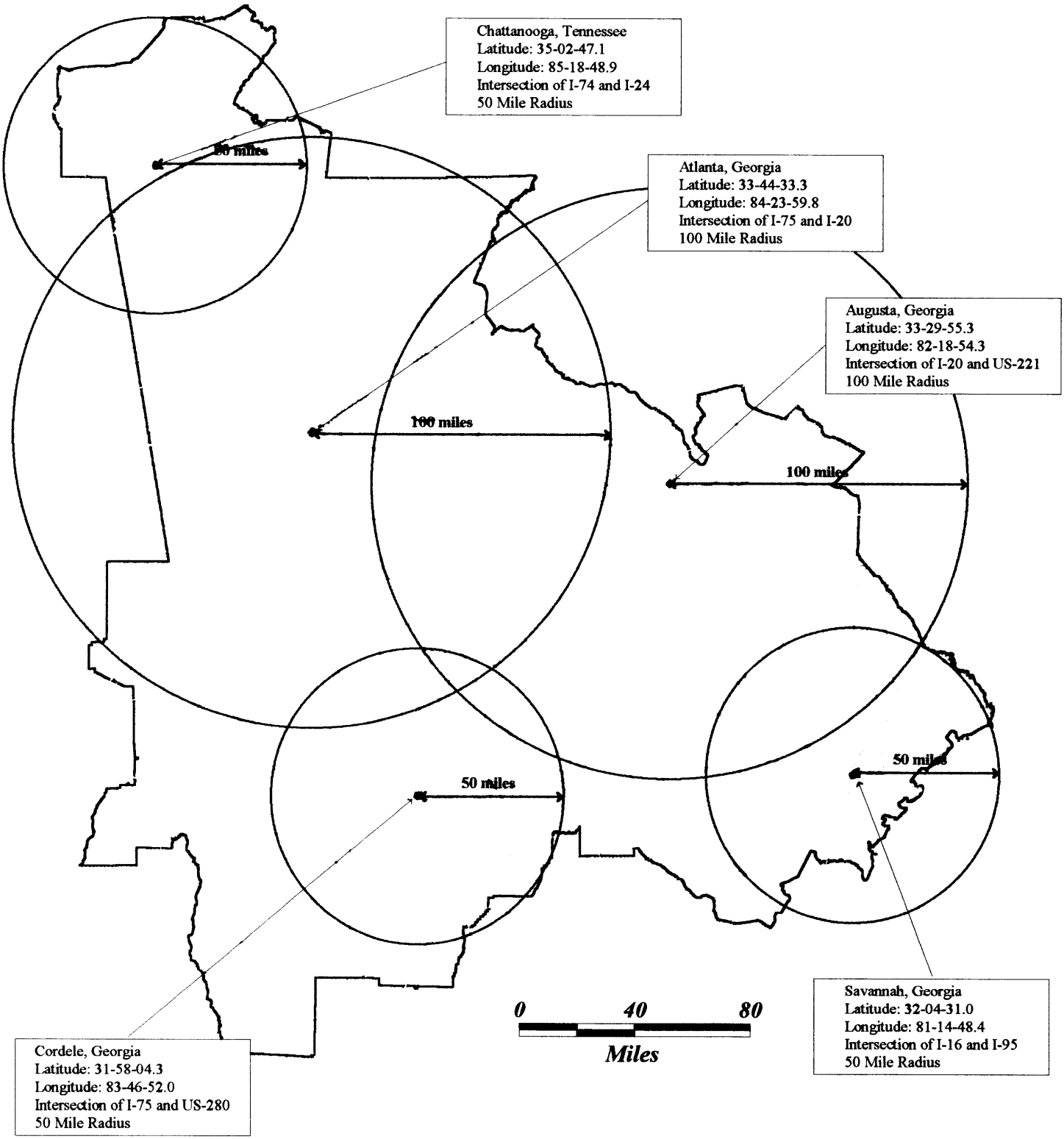
EXHIBIT II

PROPOSED LOCATIONS OF FIXED AND MOBILE TRANSMITTERS

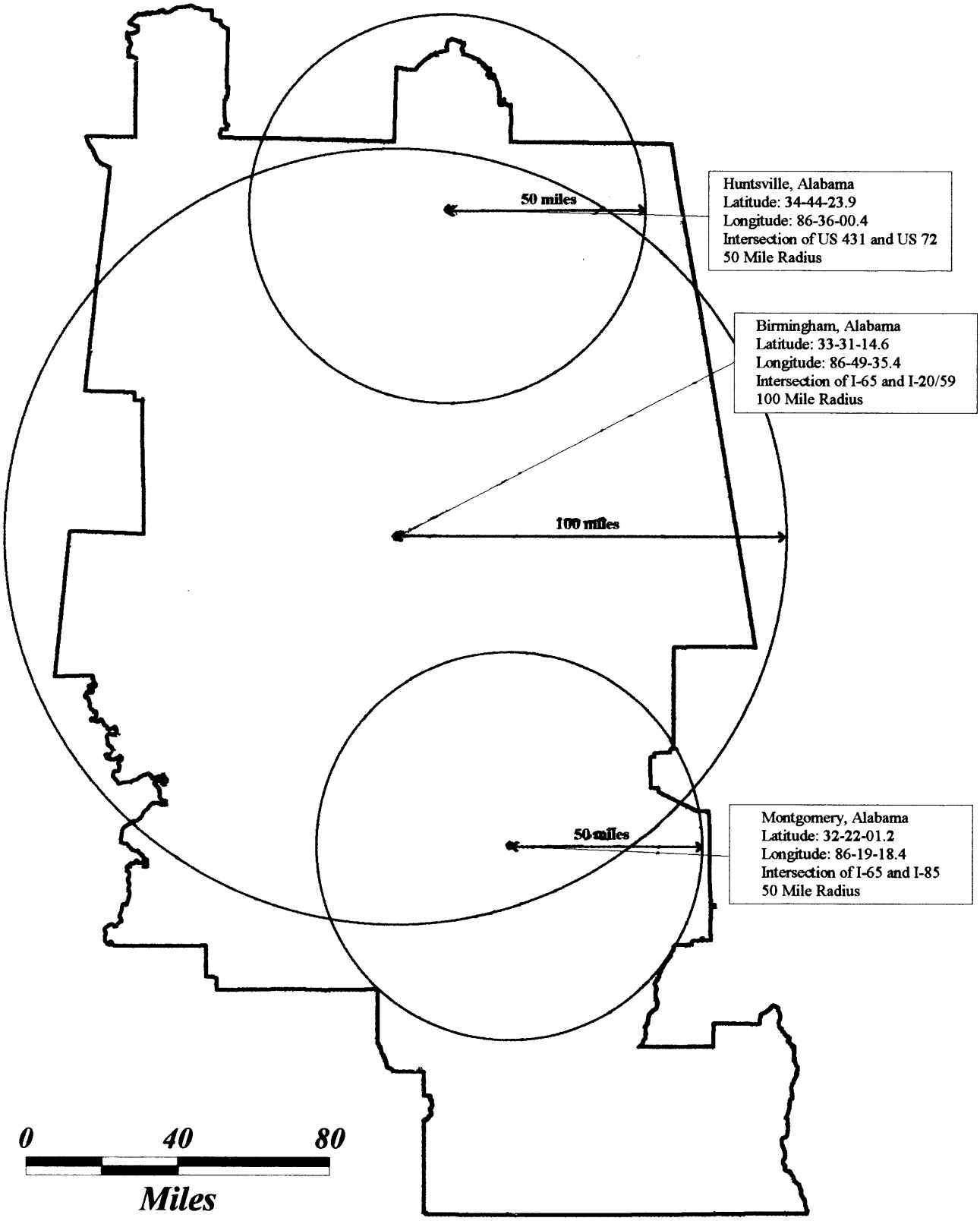
Galaxy PCS seeks experimental authority in the Melbourne, Florida area and on an MTA-wide basis in the following MTAs: Atlanta, Birmingham, Charlotte, Jacksonville, Knoxville, Memphis-Jackson, Miami, Nashville, Richmond. In particular, and as illustrated in the attached diagrams, authorization is requested for the following sets of coordinates and corresponding radii:

	Latitude	Longitude	Radius (miles)
Atlanta MTA Test Areas:	35-02-47.1	085-18-48.9	50
	33-44-33.3	084-23-59.8	100
	33-29-55.3	082-18-54.3	100
	31-58-04.3	083-46-52.0	50
	32-04-31.0	081-14-48.4	50
Birmingham MTA Test Areas:	34-44-23.9	86-36-00.4	50
	33-31-14.6	86-49-35.4	100
	32-22-01.2	86-19-18.4	50
Charlotte MTA Test Areas:	31-15-55.7	80-50-24.1	100
	34-45-57.4	78-44-23.5	100
	34-04-56.6	80-57-09.3	100
Jacksonville MTA Test Areas:	30-26-39.19	84-17-32.82	100
	30-20-00.06	81-39-40.24	100
Knoxville MTA Test Area:	35-58-57.0	83-55-57.0	100
Melbourne, Florida Test Area:	28-06-10.6	80-40-27.9	100
Memphis-Jackson MTA Test Areas:	35-08-52.5	90-01-27.2	100
	32-24-14.0	90-09-30.4	100
Miami MTA Test Area:	25-45-57.8	80-11-53.5	50
Nashville MTA Test Area:	36-09-50.7	86-46-32.2	100
Richmond MTA Test Areas:	37-32-36.8	77-26-14.4	50
	37-20-15.4	79-59-37.4	100
	36-50-05.3	76-17-24.3	50
Tampa MTA Test Area:	27-59-38.7	82-20-10.8	50

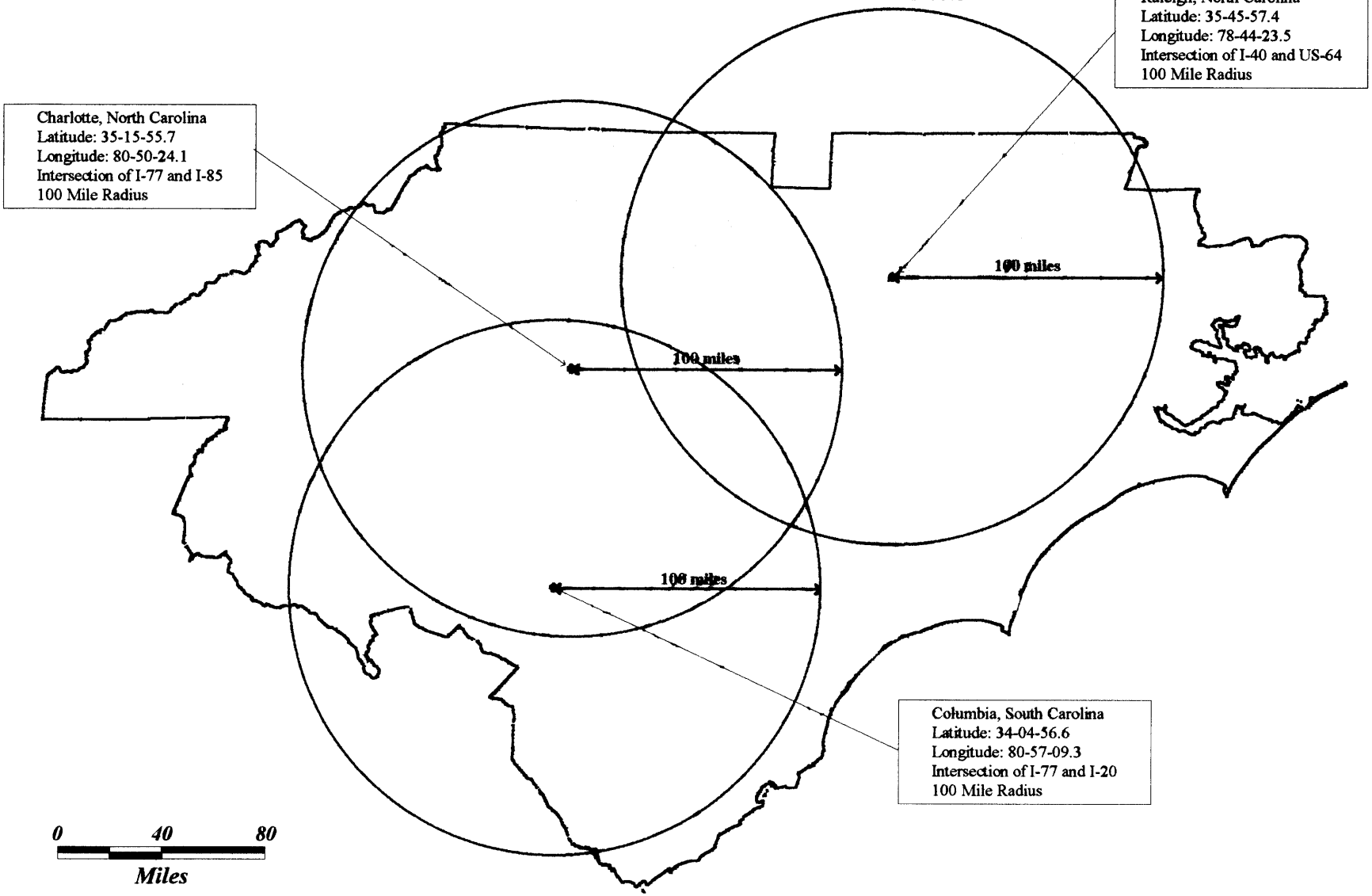
Atlanta MTA Test Areas



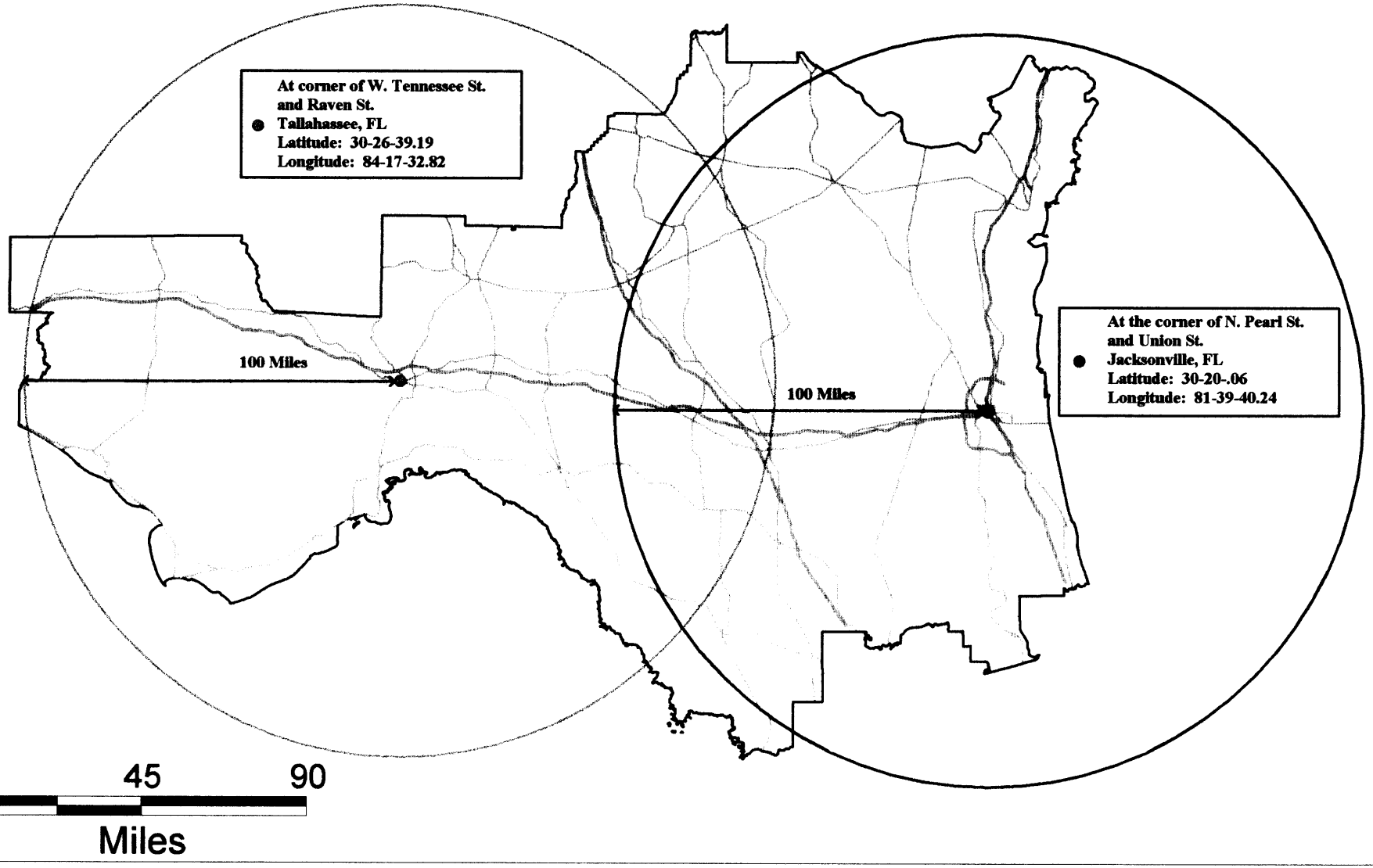
Birmingham MTA Test Areas



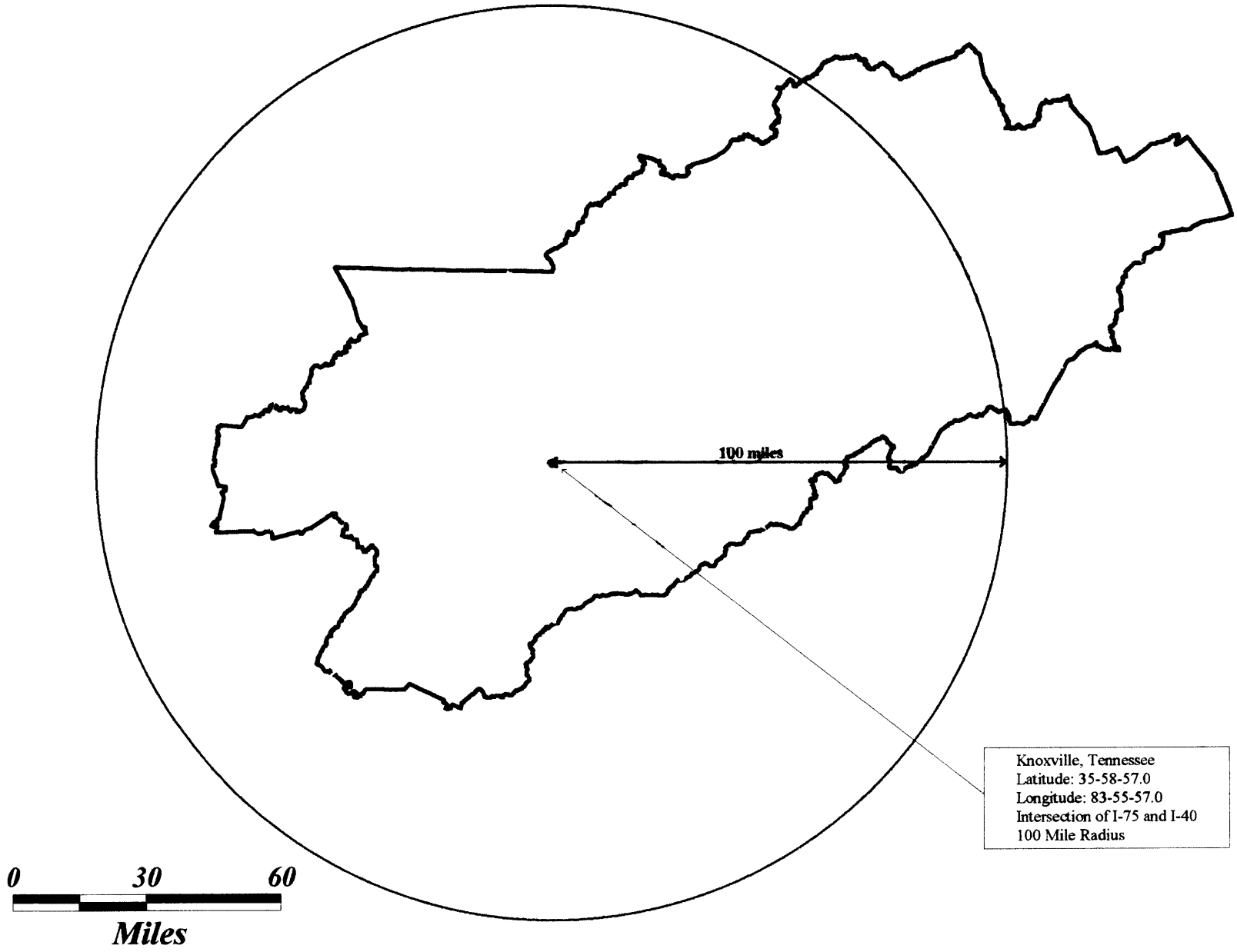
Charlotte MTA Test Areas



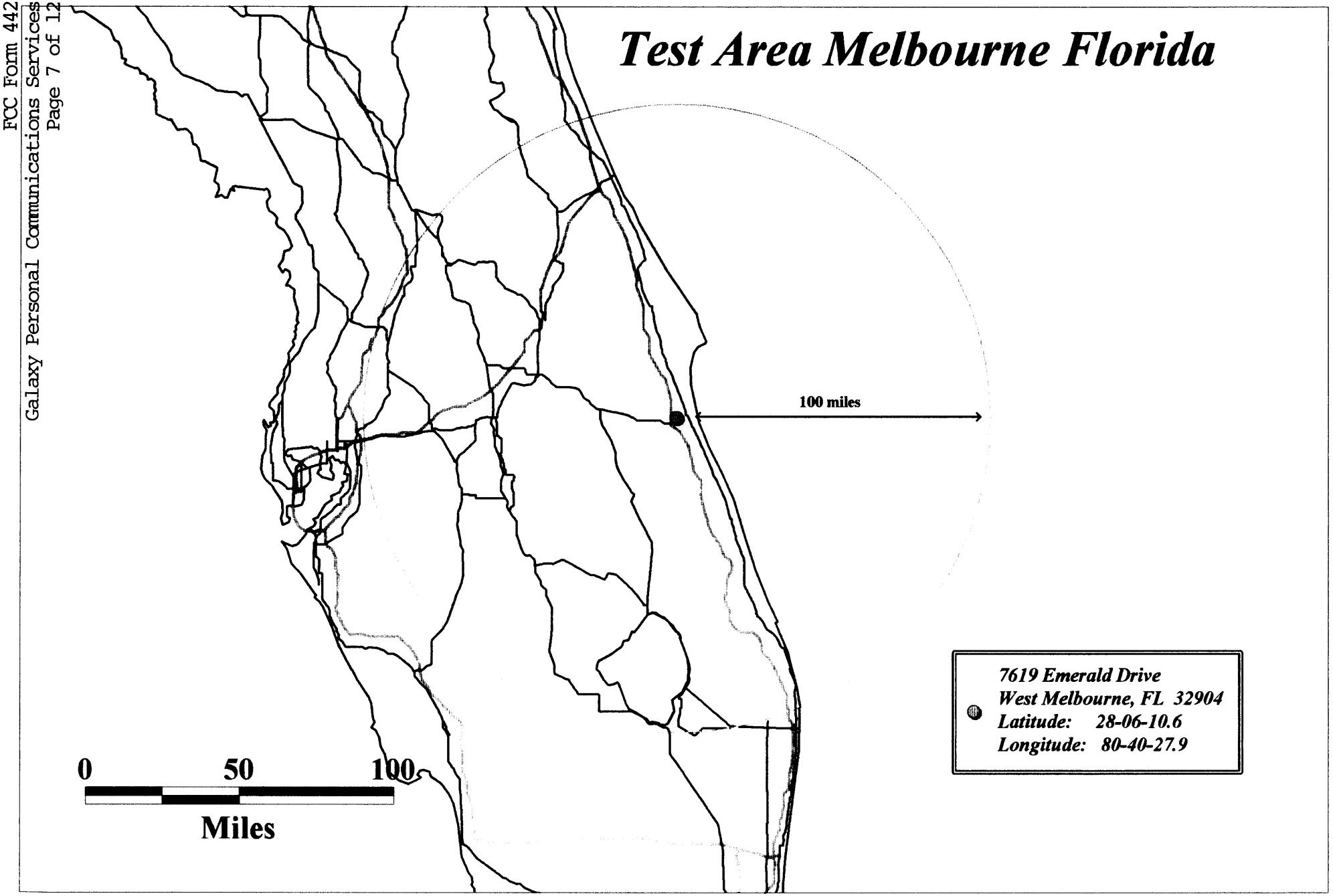
Test Area Jacksonville MTA



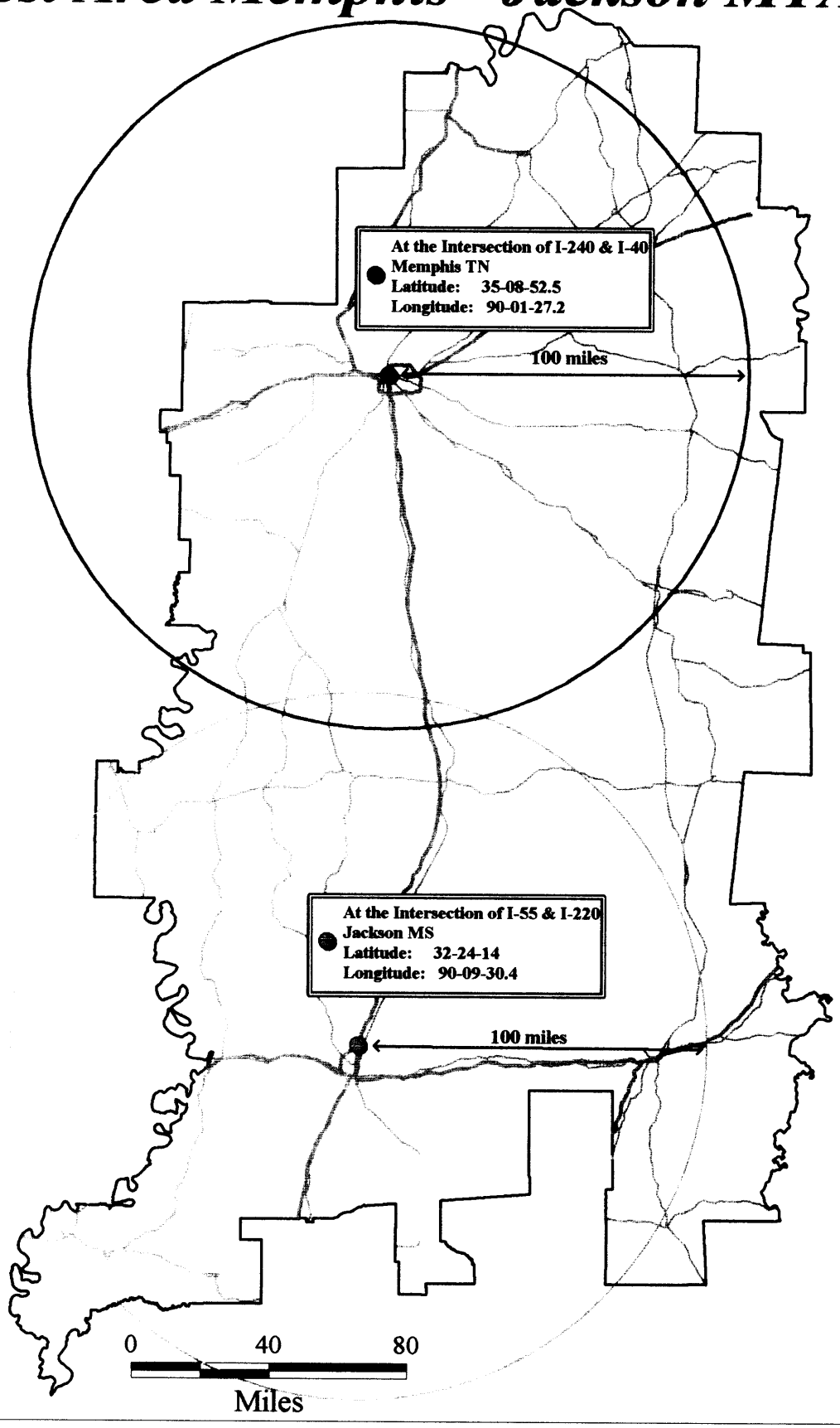
Knoxville MTA Test Area



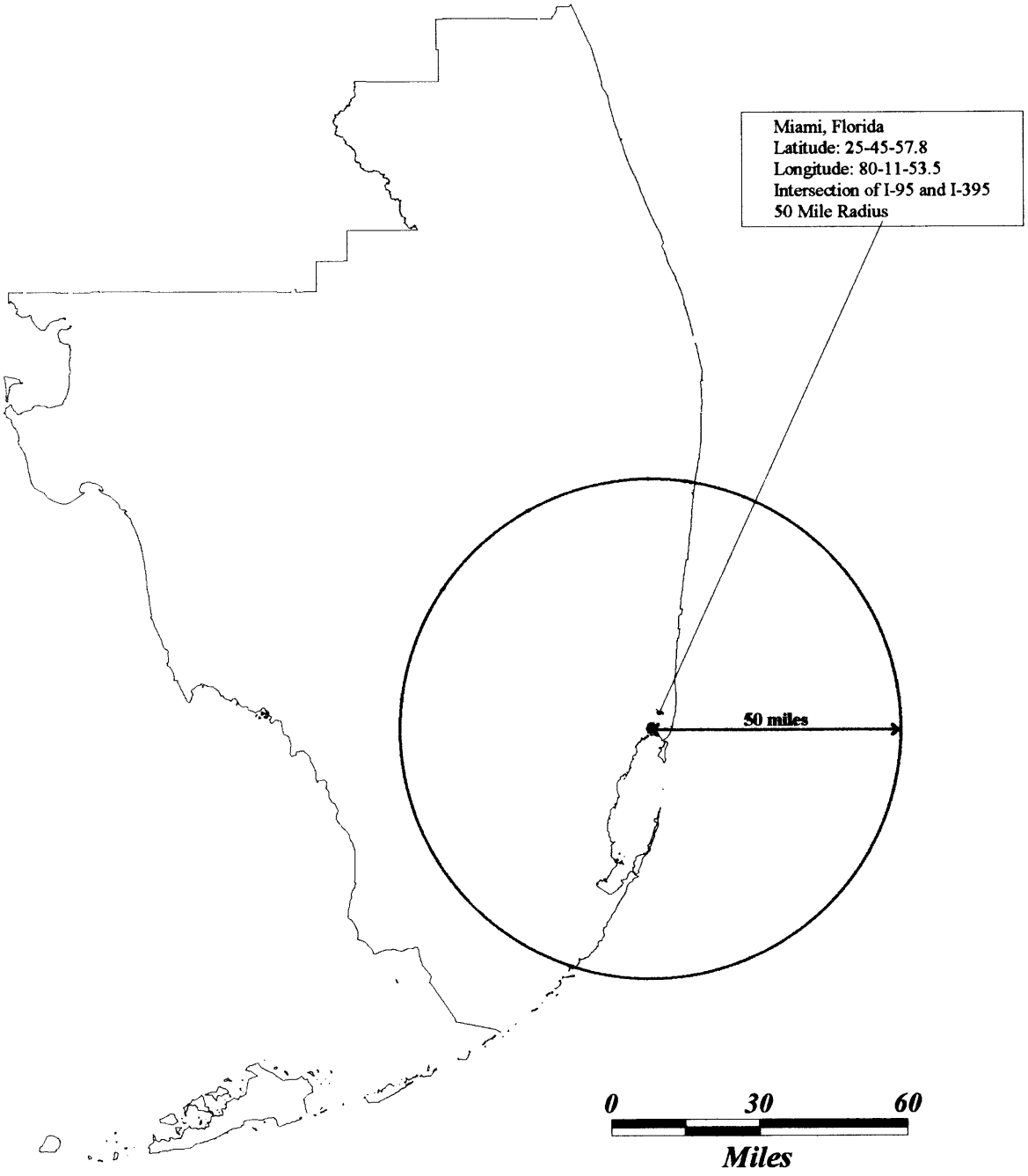
Test Area Melbourne Florida



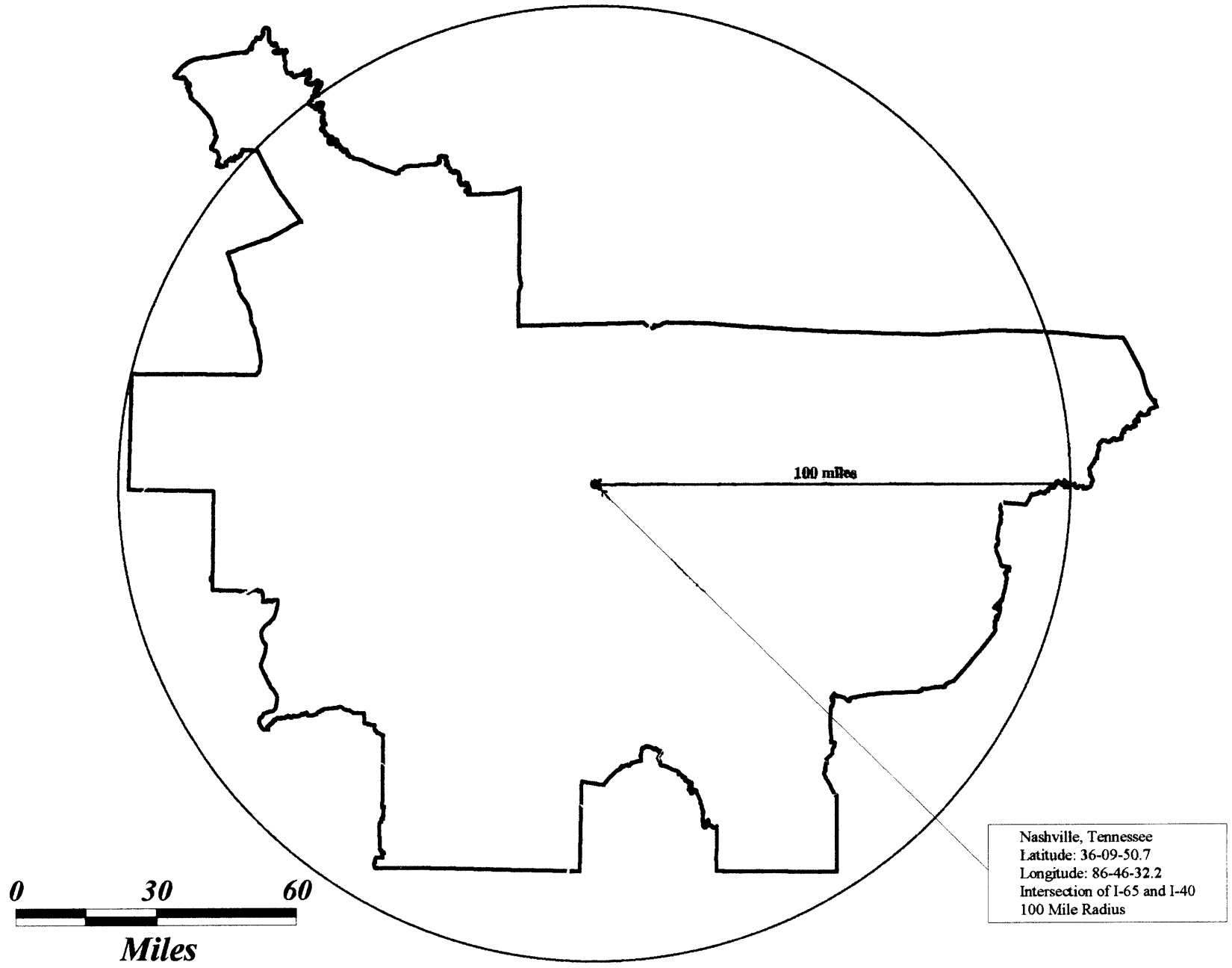
Test Area Memphis - Jackson MTA



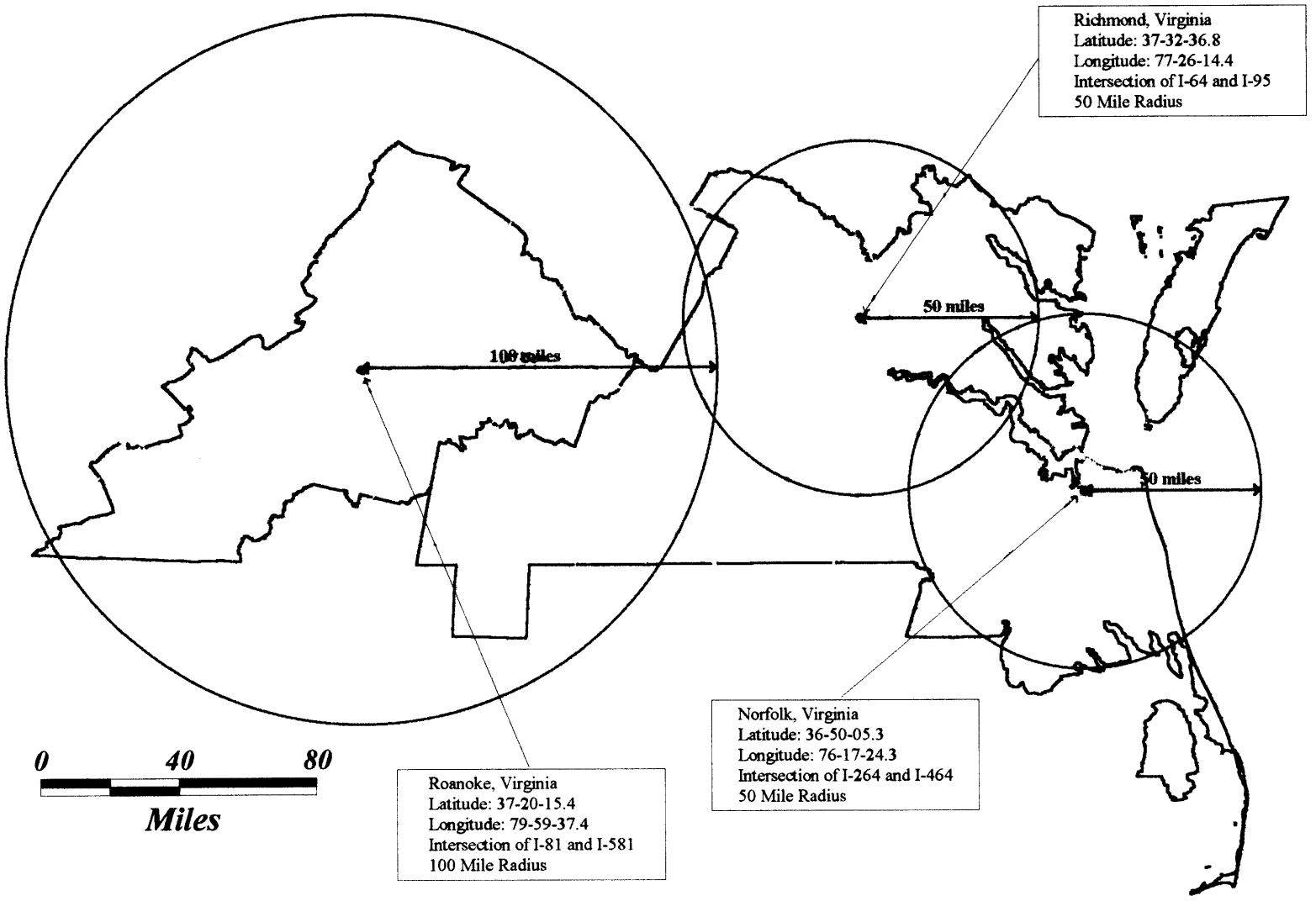
Miami MTA Test Area



Nashville MTA Test Area



Richmond MTA Test Areas



Tampa MTA Test Area