

## 399.9–400.05 MHz

### 1. Band Introduction

This shared band is allocated for the mobile-satellite (Earth-to-space) and radionavigation-satellite services. The Federal Government operates systems in this band that are used for space research, land mobile radio, and research, development, testing and evaluation (RDT&E) on a non-interference basis. There are few Federal assignments in this band of those the Army has two land mobile assignments.

### 2. Allocations

#### 2a. Allocation Table

The frequency allocation table shown below is extracted from the Manual of Regulations & Procedures for Federal Radio Frequency Management, Chapter 4 – Allocations, Allotments and Plans.

#### *Table of Frequency Allocations*

##### *United States Table*

Federal Table	Non-Federal Table	FCC Rule Part(s)
399.9-400.05 MOBILE-SATELLITE (Earth-to-space) US319 US320 RADIONAVIGATION-SATELLITE 5.260		Satellite Communications (25)

#### 2b. Additional Allocation Table Information

**5.260** Recognizing that the use of the band 399.9-400.05 MHz by the fixed and mobile services may cause harmful interference to the radionavigation satellite service, administrations are urged not to authorize such use in application of No. 4.4.

**US319** In the bands 137-138 MHz, 148-149.9 MHz, 149.9-150.05 MHz, 399.9-400.05 MHz, 400.15-401 MHz, 1610-1626.5 MHz, and 2483.5-2500 MHz, Federal stations in the mobile-satellite service shall be limited to earth stations operating with non-Federal space stations.

**US320** The use of the bands 137-138 MHz, 148-150.05 MHz, 399.9-400.05 MHz, and 400.15-401 MHz by the mobile-satellite service is limited to non-voice, non-geostationary satellite systems and may include satellite links between land earth stations at fixed locations.

### 3. Federal Agency Use

#### 3a. Federal Agency Frequency Assignments Table:

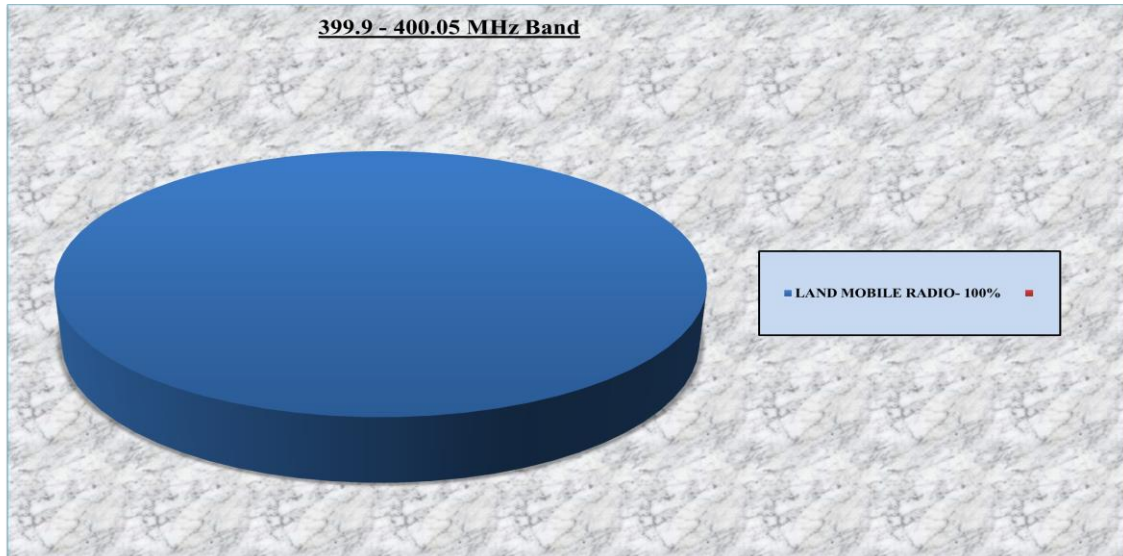
The following table identifies the frequency band, type(s) of allocation(s), types of application, and the number of frequency assignments by agency.

*Federal Frequency Assignment Table*

399.9-400.05 MHz Band				
SHARED BAND				
AGENCY	MOBILE-SATELLITE (Earth-to-space) RADIONAVIGATION-SATELLITE			
	TYPE OF APPLICATION			
		LAND MOBILE OPERATIONS		TOTAL
AF		2		2
AR		2		2
<b>TOTAL</b>		<b>4</b>		<b>4</b>
<p>The number of actual systems, or number of equipments, may exceed and sometimes far exceed, the number of frequency assignments in a band. Also, a frequency assignment may represent, a local, state, regional or nationwide authorization. Therefore, care must be taken in evaluating bands strictly on the basis of assignment counts or percentages of assignments.</p>				

### 3b. Percentage of Frequency Assignments Chart

The following chart displays the percentage of frequency assignments for the systems operating in the frequency band 399.9 – 400.05 MHz. The greatest use in the band is land mobile operations.



## 4. Frequency Band Analysis By Application

### 4a. Mobile-Satellite (Earth-to-Space) Service

The Federal Government is not using the 399.9-400.05 MHz band for systems operating in the mobile-satellite service at this time.

### 4b. Land Mobile Radio

The Army and Air Force utilize this band in support of routine operations, training, military exercises and special incidents in support of other local, state and federal emergency activities.

### 4c. Radionavigation Service

Federal use in this band was originally for radionavigation service, however, that has changed over time.

## 5. Planned Use

The Federal Government will continue to use this band to monitor and forecast ionospheric scintillation in real-time and on a global basis indefinitely.