

ESTABLISHMENT OF THE OFFICIAL LOUISIANA SPATIAL DOMAIN FOR THE EXCHANGE AND MANAGEMENT OF GEOSPATIAL DATA BY THE STATE OF LOUISIANA

WHEREAS, geospatial information plays a critical role in both public and private sector information management, and

WHEREAS, Geographic Information Systems (GIS) are the means by which geospatial information is created, managed, analyzed and disseminated, and

WHEREAS, the accuracy of geospatial data is critical to its proper use and interpretation and it is closely related to how the data are stored, and

WHEREAS, the *Geodatabase* format, created by the Environmental Systems Research Institute (ESRI), is a common format for storing geospatial data and will become more important as GIS and information technology evolve, and

WHEREAS, the precision and accuracy of an ESRI *Geodatabase* is related to the geographic area or “domain” that the database is designed to represent; and a region bounded on the west by 96° west longitude, on the east by 88° west longitude, on the south by 25.6° north latitude, and on the north by 34° north latitude, renders a precision of 2287 and minimum mapping resolution of less than ½ millimeter, now therefore,

BE IT RESOLVED, the Louisiana Geographic Information Systems Council, this ___ day of _____ establishes the “Official Louisiana Domain” for the exchange of geospatial data in ESRI *Geodatabase* format, and be it

FURTHER RESOLVED, the ‘Official Louisiana Domain’ shall be used for conducting official business by state agencies, between state agencies and between state agencies and non-state agencies that exchange data in this format, and be it

FUTTHER RESOLVED, the “Official Louisiana Domain’ is defined as follows:

ESRI Projection Name: NAD_1983_UTM_Zone_15N

Projection: Transverse_Mercator

Parameters:

False_Easting: 500000.000000

False_Northing: 0.000000

Central_Meridian: -93.000000

Scale_Factor: 0.999600

Latitude_Of_Origin: 0.000000

Linear Unit: Meter (1.000000)

Geographic Coordinate System:

Name: GCS_North_American_1983

Angular Unit: Degree (0.017453292519943295)

Prime Meridian: Greenwich (0.000000000000000000)

Datum: D_North_American_1983

Spheroid: GRS_1980

Semimajor Axis: 6378137.000000000000000000

Semiminor Axis: 6356752.314140356100000000

Inverse Flattening: 298.257222101000020000

X/Y Domain:

Min X: 198600.000000

Min Y: 2834700.000000

Max X: 1137595.909488

Max Y: 3773695.909488

Scale: 2287.000000

M Domain:

Min: 0.000000

Max: 21474.836450

Scale: 100000.000000

Z Domain:

Min: -500000.000000

Max: 1647483.645000

Scale: 1000.000000