

Data Management Plan (DMP) for Spaceports 2023-Present Datasets

U.S. Department of Transportation (USDOT)

Bureau of Transportation Statistics (BTS)

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2024-02-27: Initial DMP written

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0. Dataset and Contact Information

Title of Dataset: Spaceports 2023-Present Datasets

URL: <https://doi.org/10.21949/1530699>

This is an ☒ initial DMP or a ☐ revised DMP.

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Data Distributor Contact Information

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1. Data Description:

The Spaceports dataset is from the Bureau of Transportation Statistics (BTS), and is part of the U.S. Department of Transportation (USDOT)/Bureau of Transportation Statistics' (BTS') National Transportation Atlas Database (NTAD). This layer is meant to be a reference layer and features public and private spaceport facilities in the United States. The information found on FAA's Office of Spaceports was used in creating this layer by the Bureau of Transportation Statistics (BTS), found here https://www.faa.gov/space/office_spaceports. These facilities support the launching and receiving of spacecraft into and from space. As a result, U.S. spaceports have a critical

role in the growing global commercial space transportation industry. The FAA Office of Spaceports is responsible for development of policies that promote infrastructure improvements and strengthen the competitiveness of U.S. spaceports, supporting launch and reentry site licensing activities, providing technical assistance and guidance to existing and proposed new spaceports, and the domestic and global promotion of U.S. spaceports. The mission of the FAA's Office of Spaceports is to enable the safest, most efficient network of launch and reentry spaceports in the world, along with a vision to advance a robust, innovative national system of spaceports supporting the U.S. as a global leader in the commercial space transportation industry.

2. Standards Employed:

The data files collected here are saved in the ubiquitous and common geospatial shapefile (.shp) format. As the files created for this ingest were migrations from the original format in a SQL geodatabase, each data file name includes a date stamp indicating when the data in the shapefile was from.

Documentation will include this data management plan, and the metadata and readme files created in 2024.

Documentation will also include the shapefiles, data dictionary, and relevant supporting files created alongside the data from 1995. A DCAT-US vs. 1.1 .json metadata file will be created to describe the archival location of this data, and that .json file will be uploaded to data.gov and transportation.data.gov

Necessary software tools: The file formats found in the zip files include: .txt, shapefiles (.shp, .shx, and .dbf), and .pdf files.

- The txt is a common text file, which can be opened with a basic text editor. The most common software used to open .txt files are Microsoft Windows Notepad, Sublime Text, Atom, and TextEdit (for more information on .txt files and software, please visit <https://www.file-extensions.org/txt-file-extension>)
- Shapefiles (.shp, .shx, and .dbf) can be opened with any GIS software program. An open-source software that can open most ESRI file types is QGIS <https://www.qgis.org/en/site/>.
- The pdf file format was developed by Adobe Systems and represents two-dimensional documents in a device-independent and resolution-independent format. There are PDF readers available on many platforms, such as Xpdf, Foxit, and Adobe's own Adobe Acrobat Reader. PDF readers/viewers or online services for basic functions are generally free (for more information on .pdf files and software, please visit <https://www.file-extensions.org/pdf-file-extension>).

3. Access Policies:

These data files are in the public domain and can be shared without restriction. The data files contain no sensitive information.

4. Re-Use, Redistribution, and Derivative Products Policies:

These data are managed by the Bureau of Transportation Statistics. The data are in the public domain and may be re-use without restriction.

Citation of the data is appreciated. Please use the following recommended citation:

U.S. Department of Transportation, Bureau of Transportation Statistics (BTS); Bureau of Transportation Statistics (BTS) [distributor]. Spaceports 2023-Present [datasets]. <https://doi.org/10.21949/1530699>

5. Archiving and Preservation Plans:

The dataset will be archived in the National Transportation Library Repository and Open Science Access Portal (ROSA P). Prior to archiving, the data are stored on the secured BTS networks and drives, which are backed up nightly. The US DOT systems are secured from outside users and backed up daily.

Files in ROSA P are backed up in NTL drives at US DOT, daily; at the Centers for Disease Control, the repository managing facility, daily; and in Amazon Web Service Cloud servers in Virginia and Oregon daily.

The dataset will be retained in perpetuity.

NTL staff will mint persistent Digital Object Identifiers (DOIs) for each dataset stored in ROSA P. These DOIs will be associated with dataset documentation as soon as they become available for use.

The DOIs associated with this dataset include: <https://doi.org/10.21949/1530699>

The assigned DOI resolves to the repository landing page for the “Spaceports 2023-Present” datasets, so that users may locate associated metadata and supporting files.

ROSA P meets all the criteria outlined on the “Guidelines for Evaluating Repositories for Conformance with the DOT Public Access Plan” page: <https://ntl.bts.gov/publicaccess/evaluatingrepositories.html>

6. Policies Affecting this Data Management Plan

This document was created to meet the requirements enumerated in the U.S. Department of Transportation's 'Plan to Increase Public Access to the Results of Federally-Funded Scientific Research' Version 1.1 <<<https://doi.org/10.21949/1520559>>> and guidelines suggested by the DOT Public Access website <<<https://doi.org/10.21949/1503647>>>