

## Montana Spatial Data Infrastructure: Web Service Updates

The Montana State Library is making major changes to web service offerings in our ESRI Amazon Web Services (AWS) environment: <https://gisservicemt.gov/arcgis/rest/services>. These changes trigger our 90-day notification policy.

We are in the process of implementing a new standard for web services, changing to the WGS 1984 Web Mercator Auxiliary Sphere (Web Mercator) coordinate system, and will no longer be offering certain web services in the State Plane coordinate system. To reflect the new coordinate system standardization, we have also updated the naming convention of all services and will be stripping the “SPC” and “WebMerc” suffixes from the service names. This change primarily impacts MSDI services.

These new web services are now available in AWS for each of the identified services. NAIP services will not be included at this time. MSL will plan on retiring the old services with our September 2019 monthly updates; data updates will no longer be made to the old services. For the entire list of services affected, please see the attached document.

<b>Example of Service Changes</b>	
<a href="#">MSDI Framework/Boundaries</a> (MapServer)	New – Web Mercator – Ready for Use
<a href="#">MSDI Framework/BoundariesSPC</a> (MapServer)	Old – Retiring September 20, 2019
<a href="#">MSDI Framework/BoundariesWebMerc</a> (MapServer)	Old – Retiring September 20, 2019

### General Plan –

- ✓ Create new Web Mercator services in AWS – Completed with May 2019 Monthly Updates.
- Update and organize MSDI ArcGIS Online content – Working May through September.
- Retire AWS MSDI “SPC” and “WebMerc” services – September 20, 2019 Monthly Updates.

**These changes will likely cause significant impacts to workflows, applications, and map products. We anticipate significant impacts to items using our services in ArcGIS Online: web maps, layers, story maps, geocoding service, etc.**

Please contact the Montana State Library ([geoinfo@mt.gov](mailto:geoinfo@mt.gov)) with your questions.

Discover Montana spatial data with the Montana State Library GIS Data List: <http://msl.mt.gov/GIS/DataList>.

## Montana Spatial Data Infrastructure Web Service Update Table

EFFECTIVE	CURRENT SERVICE NAME	REPLACEMENT SERVICE NAME	CURRENT DATUM	TARGET DATUM	DATUM CHANGE	CURRENT SERVICE URL	REPLACEMENT SERVICE URL
5/15/2019	BoundariesSPC	Boundaries	NAD 1983 (NAD83 1986)	WGS 1984	Y	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/BoundariesSPC/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/BoundariesSPC/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/Boundaries/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/Boundaries/MapServer</a>
5/15/2019	BoundariesWebMerc	Boundaries	WGS 1984	WGS 1984	N	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/BoundariesWebMerc/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/BoundariesWebMerc/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/Boundaries/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/Boundaries/MapServer</a>
5/15/2019	ConservationEasementsSPC	ConservationEasements	NAD 1983 (NAD83 1986)	WGS 1984	Y	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/ConservationEasementsSPC/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/ConservationEasementsSPC/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/ConservationEasements/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/ConservationEasements/MapServer</a>
5/15/2019	ConservationEasementsWebMerc	ConservationEasements	WGS 1984	WGS 1984	N	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/ConservationEasementsWebMerc/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/ConservationEasementsWebMerc/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/ConservationEasements/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/ConservationEasements/MapServer</a>
5/15/2019	GeoNamesSPC	GeoNames	NAD 1983 (NAD83 1986)	WGS 1984	Y	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/GeoNamesSPC/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/GeoNamesSPC/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/GeoNames/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/GeoNames/MapServer</a>
5/15/2019	GeoNamesWebMerc	GeoNames	WGS 1984	WGS 1984	N	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/GeoNamesWebMerc/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/GeoNamesWebMerc/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/GeoNames/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/GeoNames/MapServer</a>
5/15/2019	HydrographySPC	Hydrography	NAD 1983 (NAD83 1986)	WGS 1984	Y	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/HydrographySPC/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/HydrographySPC/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/Hydrography/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/Hydrography/MapServer</a>
5/15/2019	HydrographyWebMerc	Hydrography	WGS 1984	WGS 1984	N	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/HydrographyWebMerc/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/HydrographyWebMerc/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/Hydrography/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/Hydrography/MapServer</a>
5/15/2019	LandCoverSPC	LandCover	NAD 1983 (NAD83 1986)	WGS 1984	Y	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/LandCoverSPC/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/LandCoverSPC/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/LandCover/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/LandCover/MapServer</a>
5/15/2019	LandCoverWebMerc	LandCover	WGS 1984	WGS 1984	N	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/LandCoverWebMerc/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/LandCoverWebMerc/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/LandCover/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/LandCover/MapServer</a>
5/15/2019	MappingControlWebMerc	MappingControl	WGS 1984	WGS 1984	N	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/MappingControlWebMerc/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/MappingControlWebMerc/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/MappingControl/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/MappingControl/MapServer</a>
5/15/2019	ParcelsSPC	Parcels	NAD 1983 (NAD83 1986)	WGS 1984	Y	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/ParcelsSPC/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/ParcelsSPC/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/Parcels/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/Parcels/MapServer</a>
5/15/2019	ParcelsWebMerc	Parcels	WGS 1984	WGS 1984	N	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/ParcelsWebMerc/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/ParcelsWebMerc/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/Parcels/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/Parcels/MapServer</a>
5/15/2019	PLSSSPC	PLSS	NAD 1983 HARN (NAD83 1999)	WGS 1984	Y	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/PLSSSPC/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/PLSSSPC/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/PLSS/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/PLSS/MapServer</a>
5/15/2019	PLSSWebMerc	PLSS	WGS 1984	WGS 1984	N	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/PLSSWebMerc/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/PLSSWebMerc/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/PLSS/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/PLSS/MapServer</a>
6/24/2019	PublicLandsSPC	PublicLands	NAD 1983 (NAD83 1986)	WGS 1984	Y	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/PublicLandsSPC/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/PublicLandsSPC/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/PublicLands/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/PublicLands/MapServer</a>
6/24/2019	PublicLandsWebMerc	PublicLands	WGS 1984	WGS 1984	N	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/PublicLandsWebMerc/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/PublicLandsWebMerc/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/PublicLands/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/PublicLands/MapServer</a>
5/15/2019	RoadsSPC	Roads	NAD 1983 (NAD83 1986)	WGS 1984	Y	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/RoadsSPC/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/RoadsSPC/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/Roads/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/Roads/MapServer</a>
5/15/2019	StructuresSPC	Structures	NAD 1983 (NAD83 1986)	WGS 1984	Y	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/StructuresSPC/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/StructuresSPC/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/Structures/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/Structures/MapServer</a>
5/15/2019	StructuresWebMerc	Structures	WGS 1984	WGS 1984	N	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/StructuresWebMerc/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/StructuresWebMerc/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/Structures/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/Structures/MapServer</a>
5/15/2019	TransportationSPC	Transportation	NAD 1983 (NAD83 1986)	WGS 1984	Y	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/TransportationSPC/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/TransportationSPC/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/Transportation/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/Transportation/MapServer</a>
5/15/2019	TransportationWebMerc	Transportation	WGS 1984	WGS 1984	N	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/TransportationWebMerc/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/TransportationWebMerc/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/Transportation/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/Transportation/MapServer</a>
6/24/2019	WatershedBoundariesSPC	WatershedBoundaries	NAD 1983 (NAD83 1986)	WGS 1984	Y	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/WatershedBoundariesSPC/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/WatershedBoundariesSPC/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/WatershedBoundaries/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/WatershedBoundaries/MapServer</a>
6/24/2019	WatershedBoundariesWebMerc	WatershedBoundaries	WGS 1984	WGS 1984	N	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/WatershedBoundariesWebMerc/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/WatershedBoundariesWebMerc/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/WatershedBoundaries/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/WatershedBoundaries/MapServer</a>
5/15/2019	WetlandsRiparianSPC	WetlandsRiparian	NAD 1983 (NAD83 1986)	WGS 1984	Y	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/WetlandsRiparianSPC/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/WetlandsRiparianSPC/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/WetlandsRiparian/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/WetlandsRiparian/MapServer</a>
5/15/2019	WetlandsRiparianWebMerc	WetlandsRiparian	WGS 1984	WGS 1984	N	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/WetlandsRiparianWebMerc/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/WetlandsRiparianWebMerc/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/WetlandsRiparian/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSDI_Framework/WetlandsRiparian/MapServer</a>
5/15/2019	HistoricTopoWebMerc	HistoricTopo	WGS 1984	WGS 1984	N	<a href="https://gisservicemt.gov/arcgis/rest/services/MSL/HistoricTopoWebMerc/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSL/HistoricTopoWebMerc/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSL/HistoricTopo/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSL/HistoricTopo/MapServer</a>
5/15/2019	ManagedAreasWebMerc	ManagedAreas	WGS 1984	WGS 1984	N	<a href="https://gisservicemt.gov/arcgis/rest/services/MSL/ManagedAreas/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSL/ManagedAreas/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSL/ManagedAreas/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSL/ManagedAreas/MapServer</a>
5/15/2019	Montana	AddressLocator	WGS 1984	WGS 1984	N	<a href="https://gisservicemt.gov/arcgis/rest/services/MSL/Montana/GeocodeServer">https://gisservicemt.gov/arcgis/rest/services/MSL/Montana/GeocodeServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSL/AddressLocator/GeocodeServer">https://gisservicemt.gov/arcgis/rest/services/MSL/AddressLocator/GeocodeServer</a>
5/15/2019	Montana_Mask	StateMask	WGS 1984	WGS 1984	N	<a href="https://gisservicemt.gov/arcgis/rest/services/MSL/Montana_Mask/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSL/Montana_Mask/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSL/StateMask/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSL/StateMask/MapServer</a>
5/15/2019	MontanaBaseMap	StateBaseMap	WGS 1984	WGS 1984	N	<a href="https://gisservicemt.gov/arcgis/rest/services/MSL/MontanaBaseMap/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSL/MontanaBaseMap/MapServer</a>	<a href="https://gisservicemt.gov/arcgis/rest/services/MSL/StateBaseMap/MapServer">https://gisservicemt.gov/arcgis/rest/services/MSL/StateBaseMap/MapServer</a>

Patrons using a service named with “WebMerc” need to be aware of a name change and take action to update map documents, web maps, and applications accordingly.

Patrons using a service named with “SPC” need to be aware of a name change **and a datum change** and take action to update map documents, web maps, and applications accordingly.