



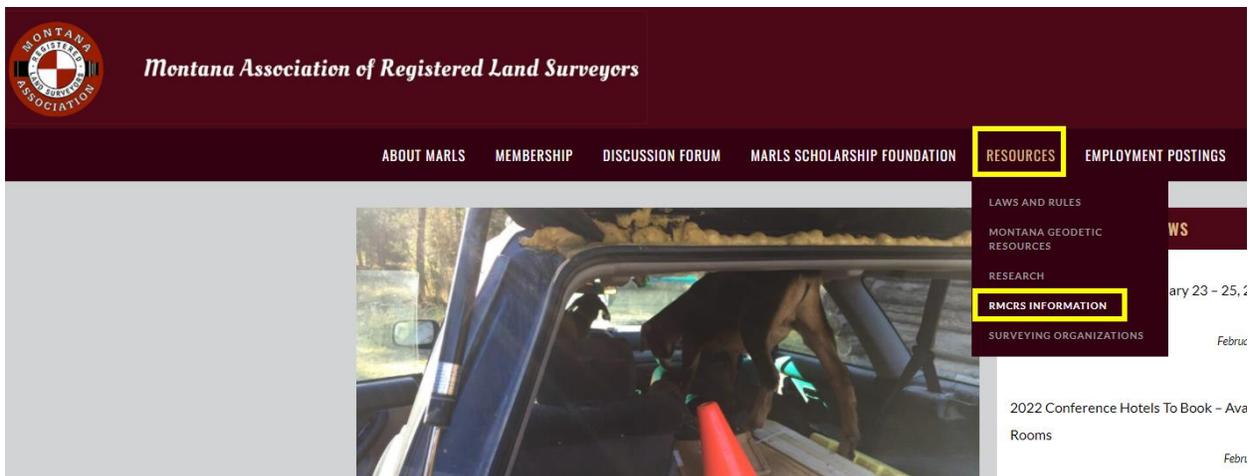
How to add the Rocky Mountain CRS database to Trimble Access



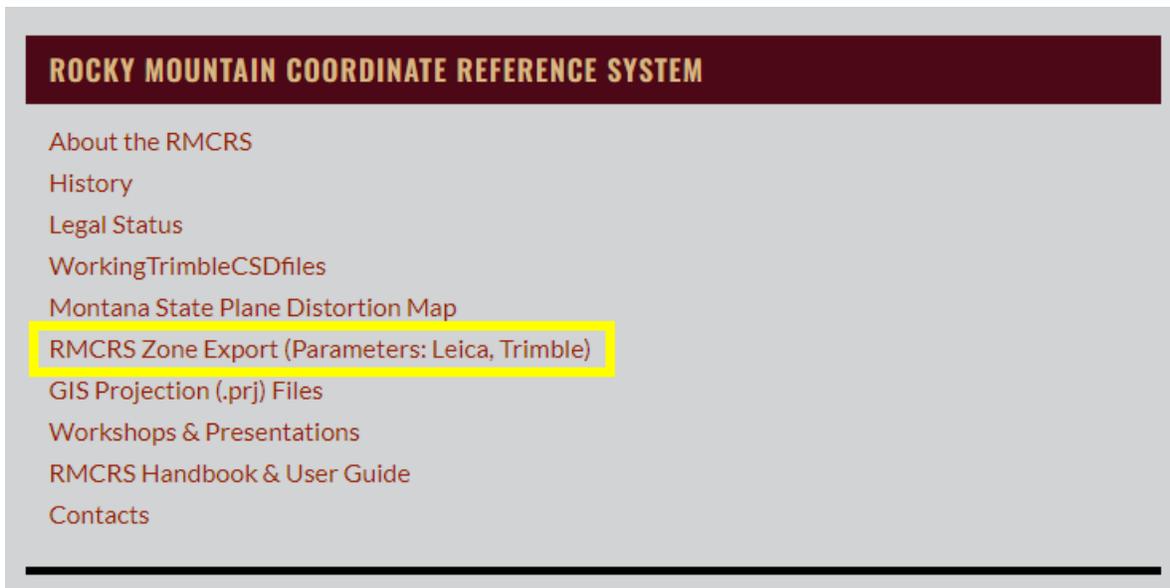
The Rocky Mountain Coordinate Reference System is based on a group of low distortion map projection coordinate systems. Low distortion projections are based on true conformal map projections designed to cover significant portions of urban and rural areas of the state. The term “low distortion” refers to both the horizontal distortion from presenting a curved surface on a plane, and the vertical distortion because these projections are also scaled to a regional height representative of the area to be covered.

A custom Trimble Coordinate System Database has been created to easily allow Montana surveyors to utilize the RMCRS projections. This document outlines the process to load this database into Trimble Access for use in the field.

- The first step is to go to the [MARLS website](#). From there, pick the **Resources** menu, then **RMCRS Information**.



- At the top of the page, select the link: **RMCRS Zone Export (Parameters: Leica, Trimble)**

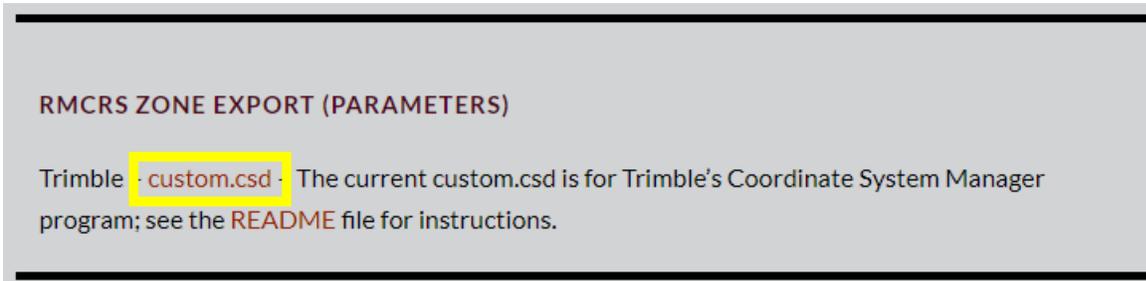




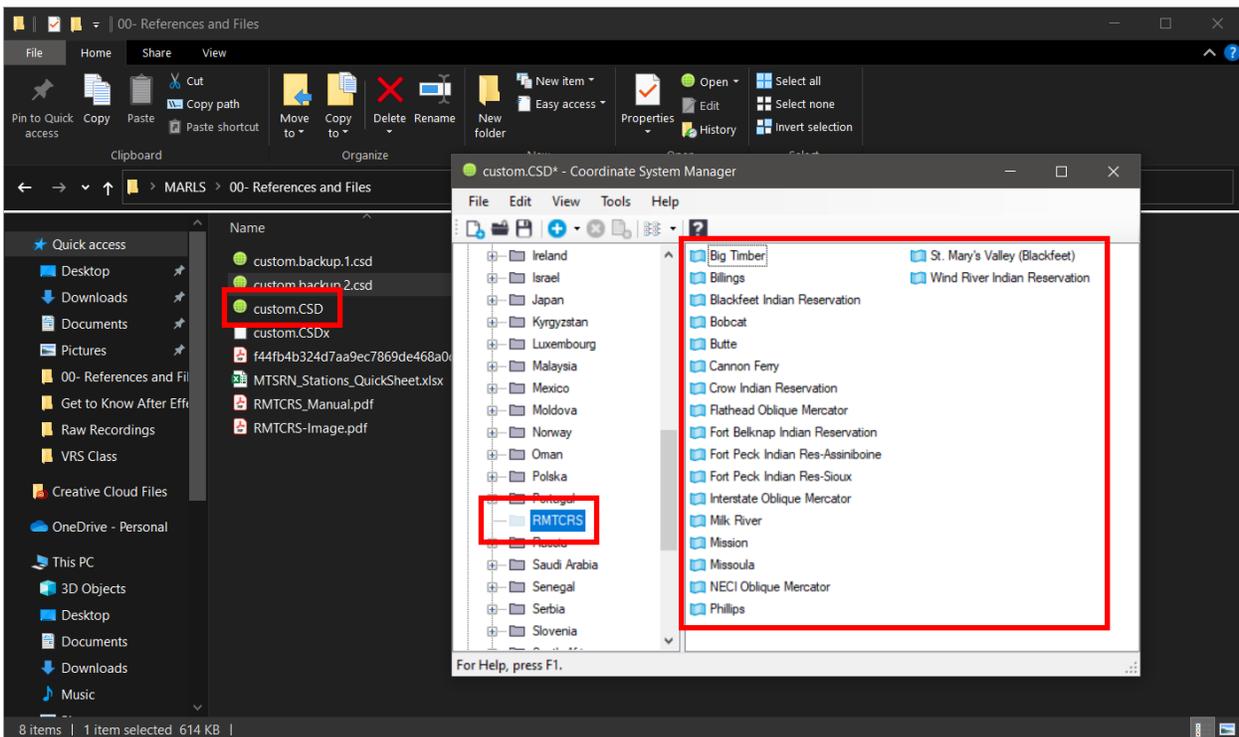
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- In the section for *RMCRS Zone Export (Parameters)*, you will find a link called **custom.csd**. Picking on the link will download the custom.csd database file which contains the RMCRS LDP's.



- If you have Trimble's office software loaded on your PC, you can open the *custom.csd* file to see the LDP's that it contains. To see the LDP's, double-click **Coordinate Systems**, then **RMTCRS**. On the right side of the screen, you will then be able to see all the LDP's and their parameters.



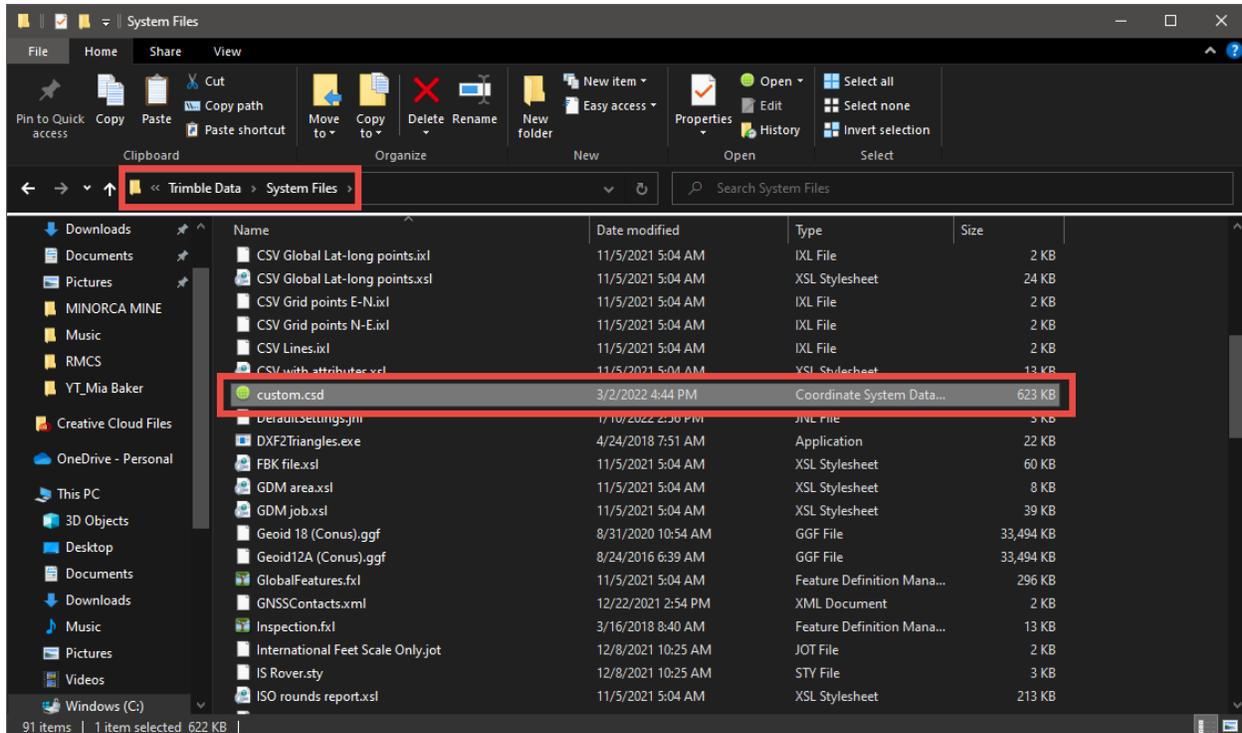
- To utilize the file in Trimble Access, it first needs to be copied over to your field controller. This example shows a Windows 10-based controller. The process for an Android-based controller is slightly different, but the Trimble folder structure is the same. An Android-based controller can be connected right to your computer and the file can be copied from there. If using a Windows 10-based controller, it is recommended to copy the file over via USB drive.



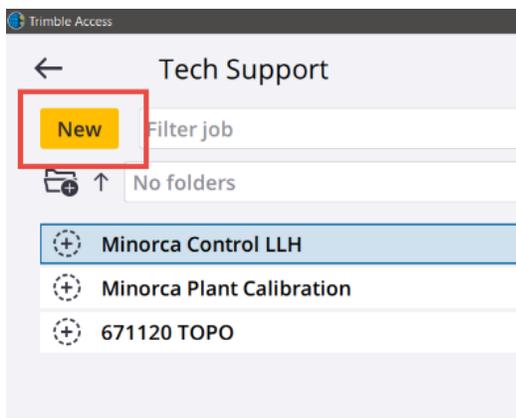
How to add the Rocky Mountain CRS database to Trimble Access



- On the controller, locate the *Trimble Data* folder.
 - Windows 10- *c:/Program Data/Trimble/Trimble Data*
 - You may need to configure your folder settings to *show hidden folders*
 - Android- Trimble Data should be available in the root directory of the device.
- Once the Trimble Data folder is located, open it, then locate and open **System Files**.
- When you have the System Files folder opened, **copy/paste** the *custom.csd* file into it.



- Now that the file has been copied to your *Trimble Data/System Files* folder, you can open Trimble Access. If it is currently open, it needs to be closed and restarted.
- In Trimble Access, create/open a project, then create a new Job.





How to add the Rocky Mountain CRS database to Trimble Access



- In the New Job screen, pick the box to change your coordinate system.

Trimble Access

New job: Tech Support\

Create from template Create from JobXML or DC file

Job name: test

Template: Last used job

Properties

Coord. sys.	Local site
Units (Dist.)	US survey feet
Layer manager	None
Feature library	None
Cogo settings	Ground
Additional settings	Off
Media file	Previous point
Reference	?
Description	?
Operator	?
Notes	?

Esc Enter

- In the next screen, choose **Select from library**.

Trimble Access

Select coordinate system

Select coordinate system

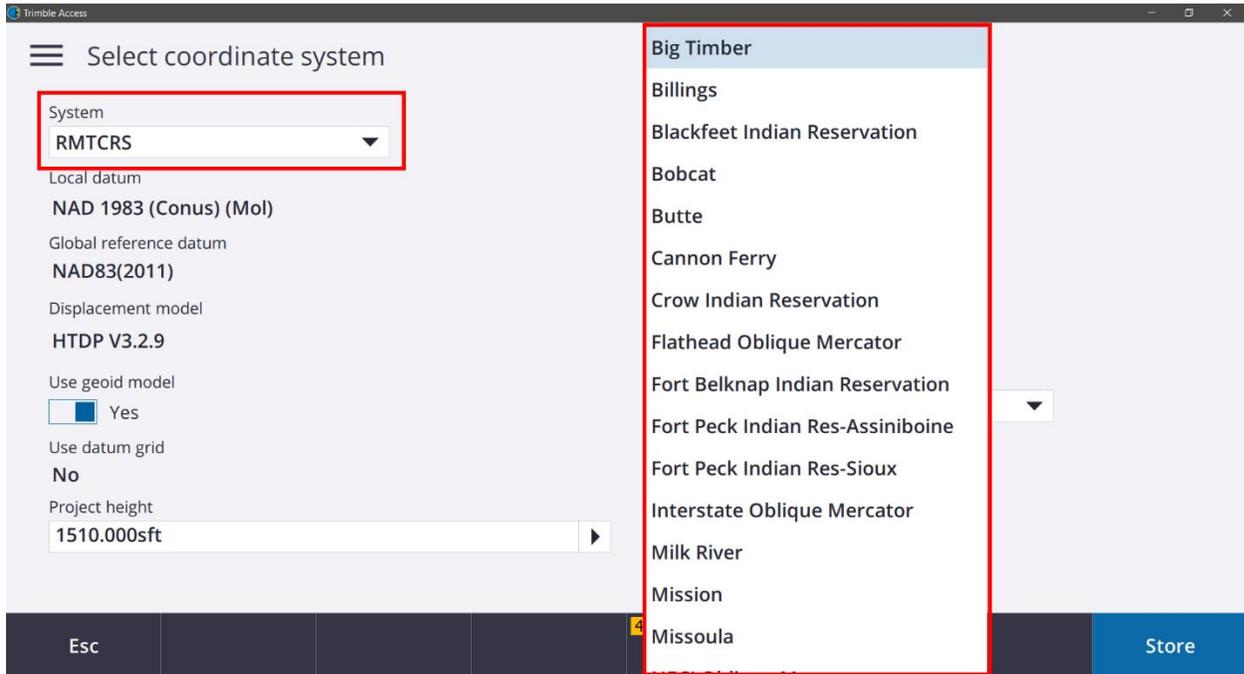
- Scale factor only
- Select from library
- Key in parameters
- No projection / no datum
- Broadcast RTCM



How to add the Rocky Mountain CRS database to Trimble Access



- You will now be in the *Select coordinate system* screen.
- Under the *System* pull-down, select **RMTCRS** from the list.
- Once **RMTCRS** is selected, you will see the list of LDP's available in the *Zone* pull-down list. From here you can pick your desired zone, Geoid Model, coordinate type, etc. and then pick Store.



- You are now ready to survey in your desired RMTCRS projection.

If you need any additional assistance in this process, you can contact Frontier Precision at **(855) 208-8005** or email us at survey_support@frontierprecision.com.