Survey Controller: OSTN15 Transformation Update Procedure

This guide is for use with Survey Controller v12.41 onwards

Prerequisites:

- Controller running a compatible version of Survey Controller
- OSTN15 files and updated coordinate system library, these are available via the KOREC web site or from KOREC Support support@korecgroup.com

    ostn15.sgf

    osgm15.ggf

    Current with OSTN15 SC.CSD

1) Copying files onto a Controller

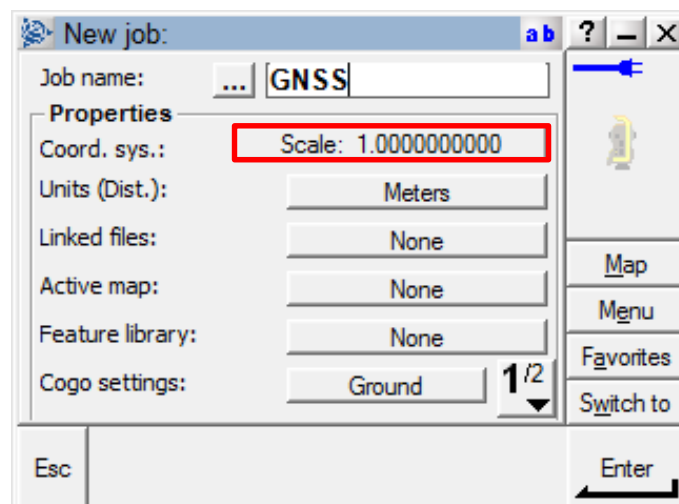Either before or after copying the files to the Controller, rename Current with OSTN15.CSD to CUSTOM.CSD

There are two options available to copy the required files onto the controller.

   a) The first is to connect the PC to the controller via a USB cable

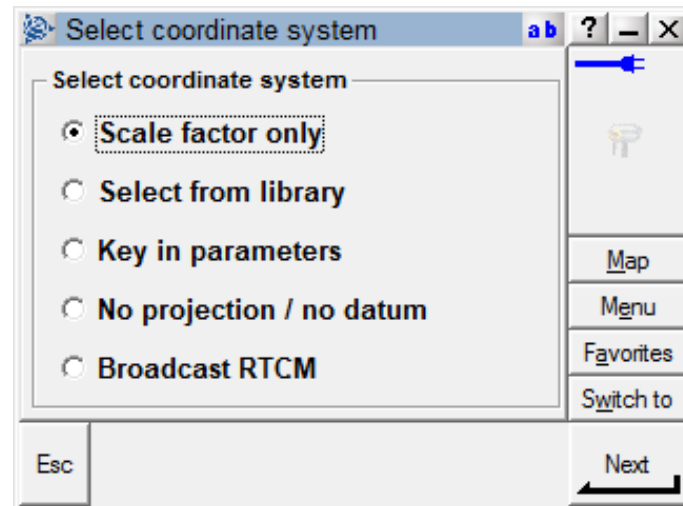   b) The second is to copy the files on to a USB stick and then onto the controller

Using either method, copy the three files to the Trimble Data folder on the controller.

2) Using the OSTN15 files with Survey Controller

- **Start** Survey Controller

- Select the **Files** button, then New job

- Tap the Coord. Sys button

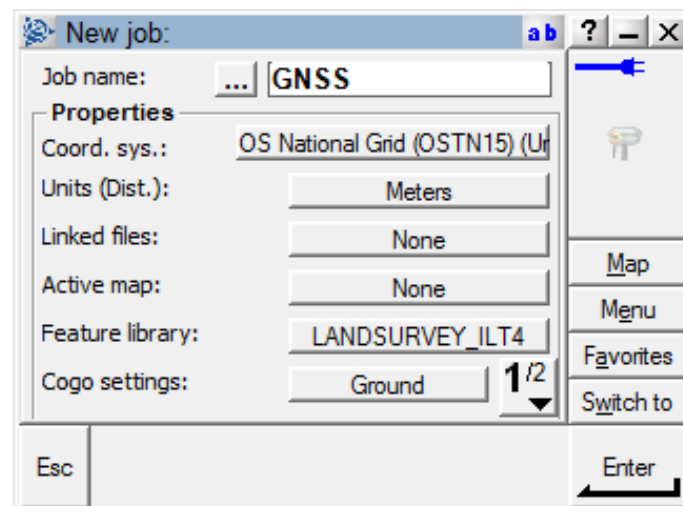- Choose to **Select from library**

- Tap **Next**

- Make the following selections:

  System: **United Kingdom/Ordnance Survey**
  Zone: **OS National Grid (OSTN15)**
  Shift grid file: **ostn15**
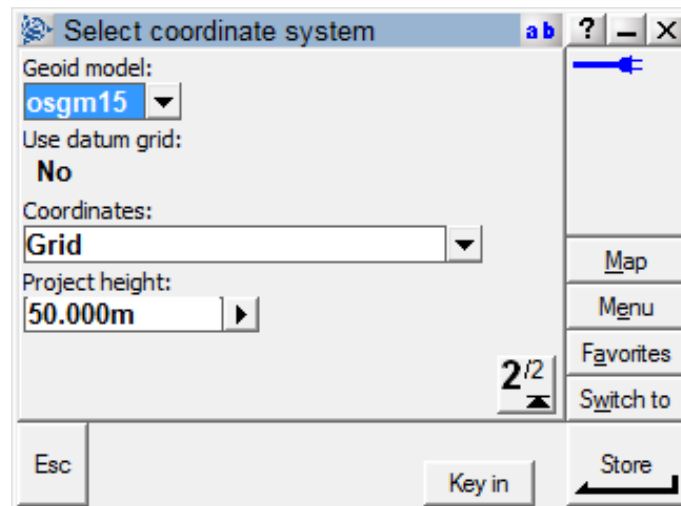 **Tick** Use geoid model

- Select Page 2, by tapping the button in the bottom right of the screen to bring up **2/2**
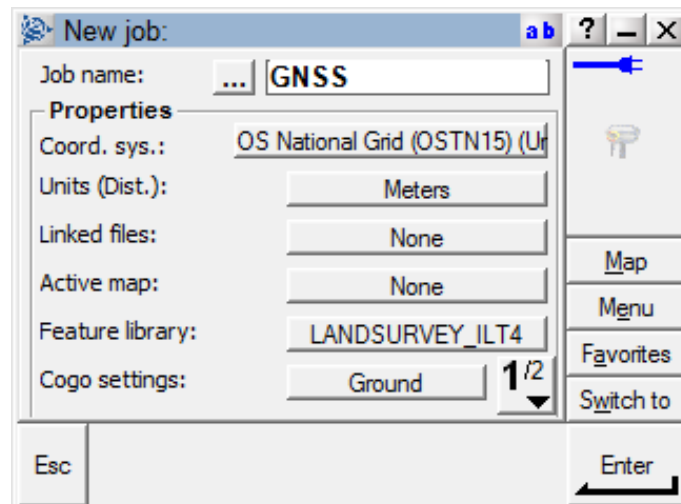
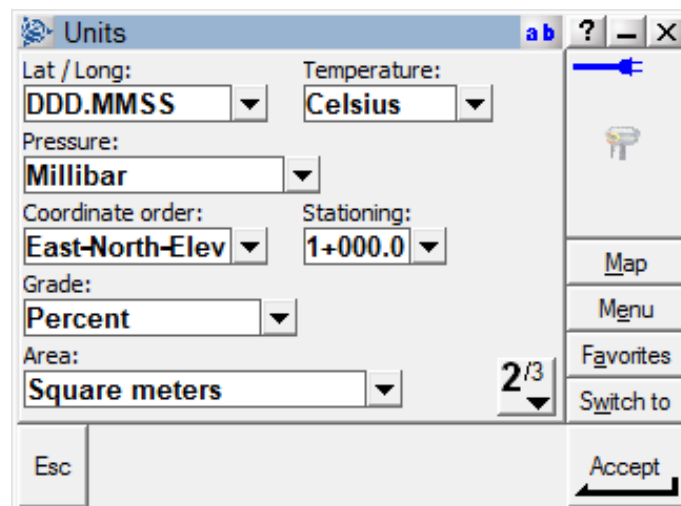 Geoid model: **osgm15**
  Coordinates: **Grid**
  Project height: **50m**

- Tap **Store**

- Tap on the Units (Dist.) button displaying Meters.

- On page 2/3 of the Units settings screens, check the coordinate order is set to East-North-Elev as shown below.

- Tap **Accept**

- At this stage you can link any additional files you may wish to the job, e.g. a Feature library

- Tap **Accept** to complete the job creation process and continue the GNSS survey as normal

3) Starting a VRSNow Survey using OSTN15 / OSGM15

When starting a VRSNow Survey using the new OSTN15 files, you **must** select one of the new OSTN15 Mountpoints when prompted.

15_TVN_RTCM_31

15_TVN_RTCM_23

15_TVN_RTCM_31_GPS_Only

15_TVN_CMR_PLUS

15_TVN_CMR_X

15_TVN_DGPS

If set to use RTCM format data then it is advised to select 15_TVN_RTCM_31 and if using CMR then either of the CMR streams will be OK.