Trimble 4000 - How to configure for kinematic surveys

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Trimble 4000 Receiver Kinematic Surveys

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This is an outline of the steps needed to run a kinematic survey with the Trimble 4000 SSE and SSi receivers. It is only intended as a guide - refer to the manual for more details and options.

- 1. Start base station static survey using quickstart or programmed survey.
- 2. Turn on roving receiver.
- 3. Press LOG DATA.
- 4. If in doubt, press MORE SETUP SURVEY CONTROLS MODIFY KINEMATIC CONTROLS to set/ACCEPT elevation mask and measurement sync time. ("Store Position:" should be set to NORMALLY for most applications, "Minimum SVs:" should be set to 4.) The sync time must be the same as (or a multiple of) the base sync time.
- 5. Press START FAST STATIC OR KINEMATIC SURVEY START KINEMATIC SURVEY to start survey.
- Static initialize for 10 15 minutes without moving antenna. While initializing press INPUT/ CHNGS - CHANGES - ANTENNA HEIGHT/FILE NAME to enter antenna height and file name.
- 7. At any time, press STATUS to see main status screen, and press LOG DATA to return to the kinematic survey screen.
- 8. Press ROVE softkey prior to roving.
- 9. Press STATIC softkey when antenna is static over the next observation point. If you need to change the antenna height, press INPUT/ CHNGS CHANGES ANTENNA HEIGHT and enter the new height. Observe a minimum of 4 epochs at each static point.
- 10. Continue with ROVE/STATIC steps 8. and 9. throughout survey. Periodically stop for 10-15 minute static occupations as a safeguard to allow re-initialization during post-processing in the event of undetected initialization loss during survey. It is also a good idea to end the survey with a long static occupation.
- 11. Press LOG DATA END SURVEY YES to end survey.

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