Application Note

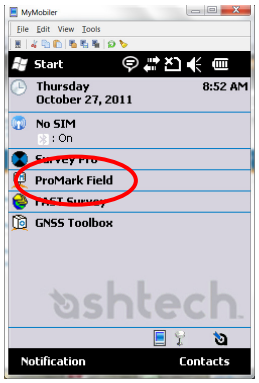
October 27, 2011

ProMark 200 Base providing serial data to **NTRIP Server Software** that is relaying the data to an **NTRIP Caster on a ProFlex 500** via the Internet

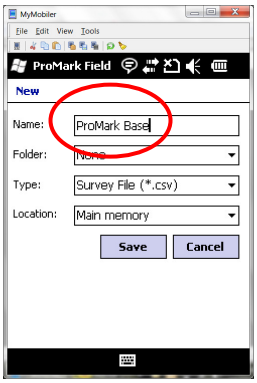
This application note is aimed at a very specific configuration. However, with a few adaptations, this document can assist in other configurations as well. For instance, FAST Survey can be used to set up the base as can $PASH commands for those familiar with their use. RTCM 3.x is selected as the output messaging, but RTCM 2..x, CMR and ATM formats can also be used. In this particular configuration, a stream of data is being directed to an NTRIP caster that is embedded in a ProFlex 500. But the stream could equally be directed to commercial or other NTRIP caster installations. The PC software chosen to relay the information, NTRIP Server was chosen because it is open source, well known and not complex. But many other software choices exist for these relays including GNSS centric and commercial offerings. This note assumes that all necessary receiver options are enabled for the configuration being used. Every keystroke and menu choice has NOT been included in this note. The user should check all other configuration choices that could affect results such as antenna modeling and data recording options.

CONFIGURATION OF PROMARK 200 AND PROMARK FIELD SOFTWARE

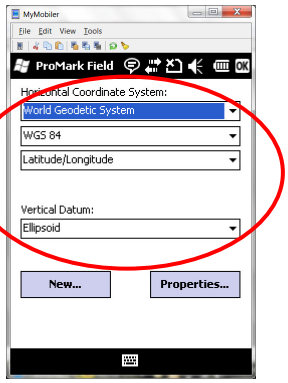
1) ProMark 200 shall be up to date with the latest firmware
2) ProMark 200 shall have the most current version of ProMark Field installed
3) ProMark 200 shall be on its cradle
    a. Power should be connected as indicated by LED near the ON/OFF button
    b. Unit shall be turned ON
    c. Standard DB-9 serial cable shall be connected between the cradle and a computer
4) Open ProMark Field



5) Create new job

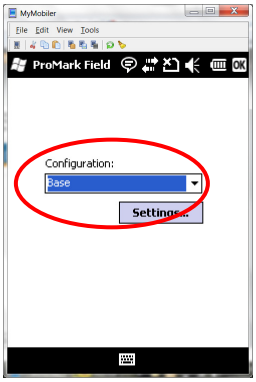


6) Select datum

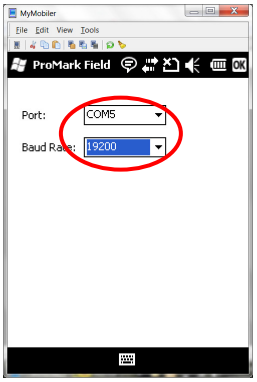


7) Configure job

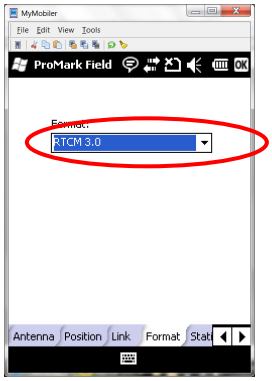
8) Base configuration



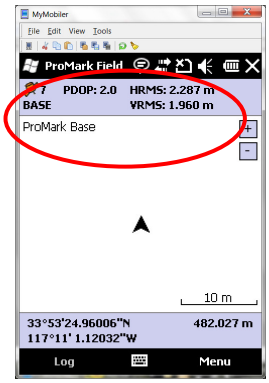
9) Comm. 5 @ 19,200 baud under Link / Other External Device



10) Output RTCM 3.x

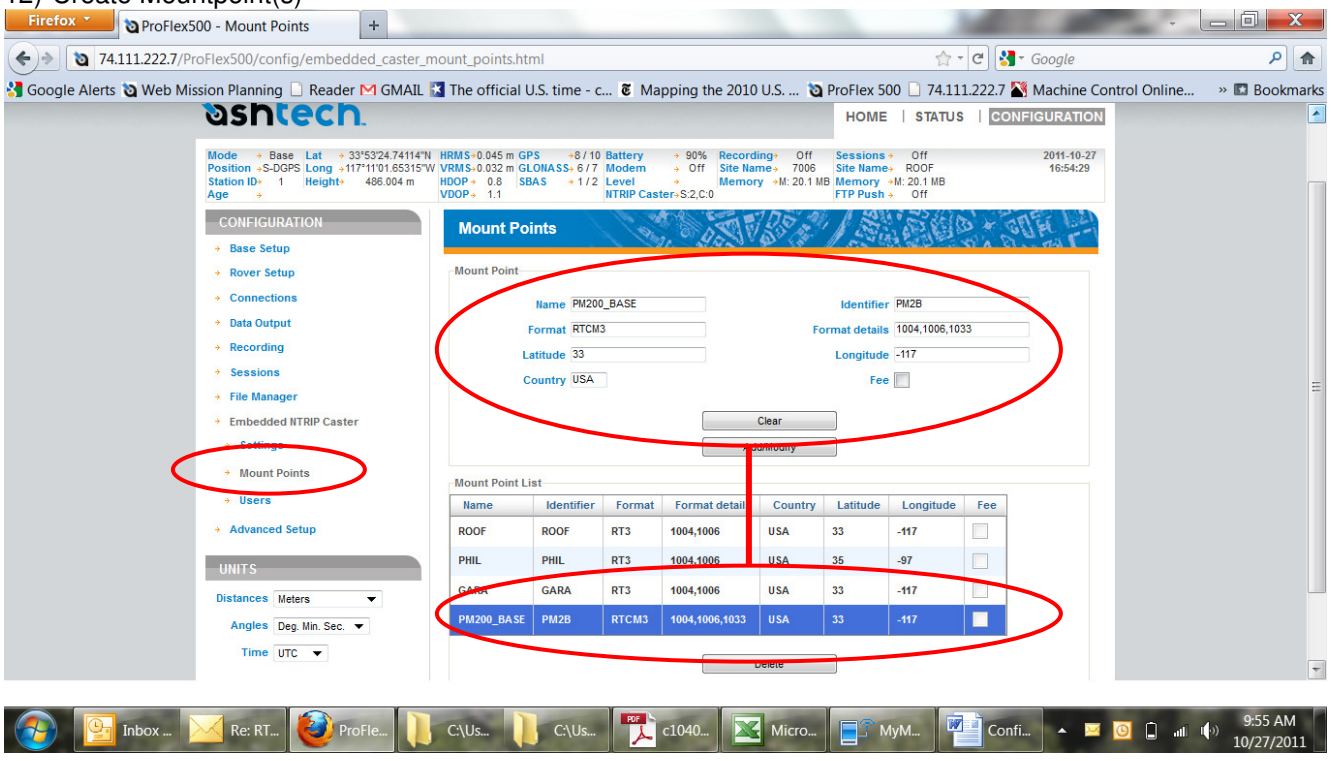


11) ProMark Field configuration done

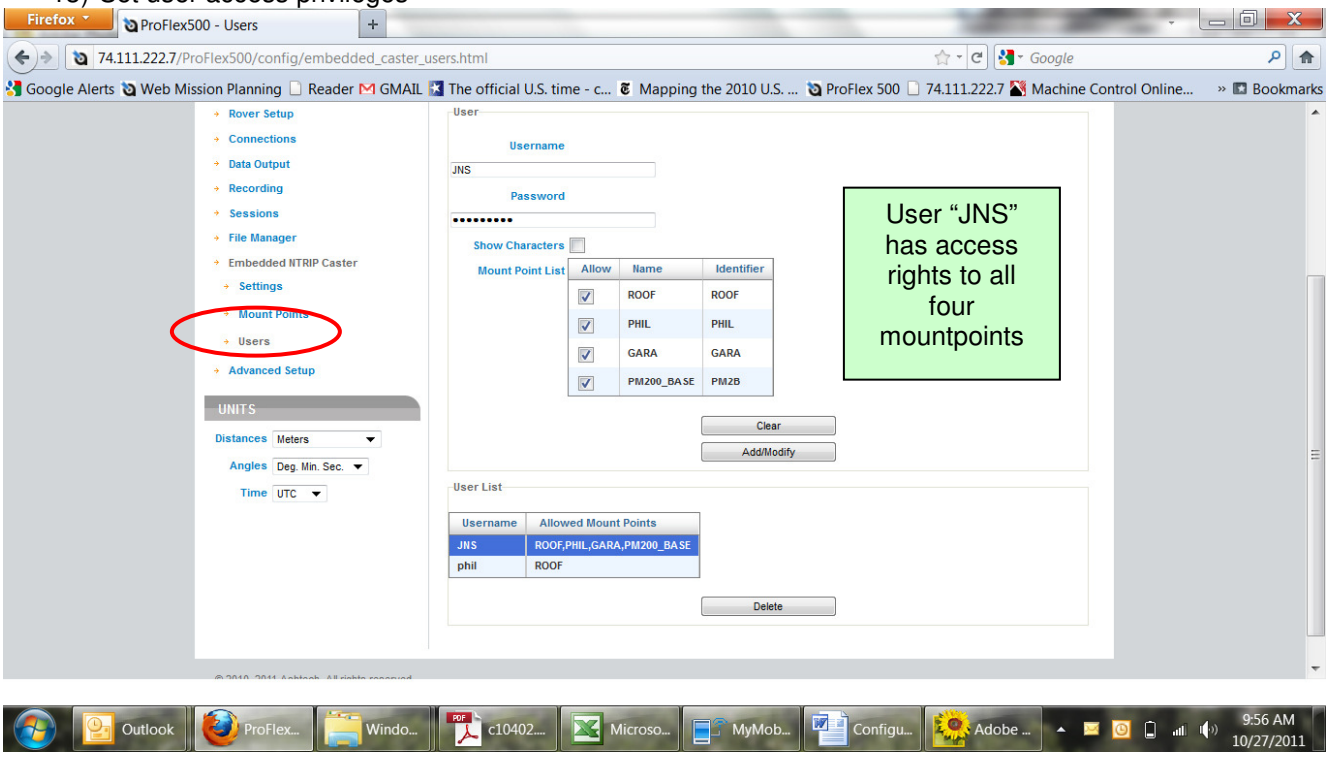


CONFIGURATION OF PROFLEX 500 CASTER

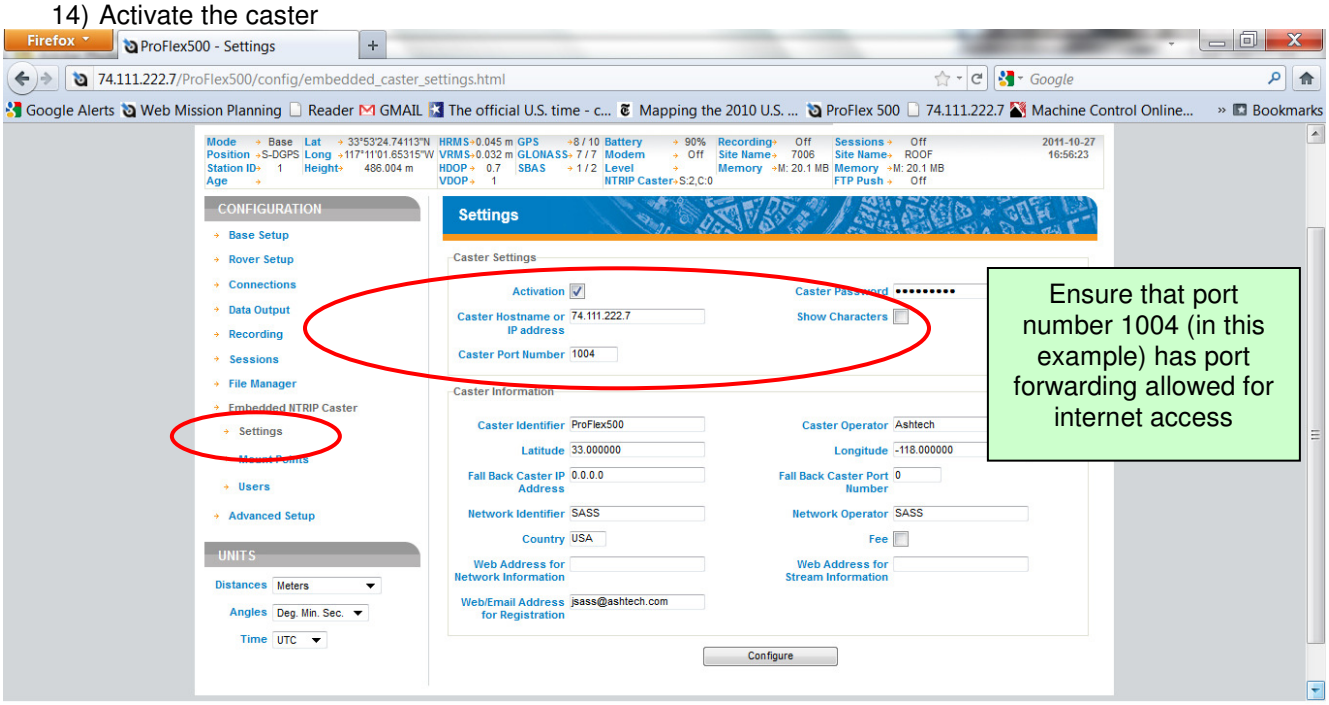
12) Create Mountpoint(s)



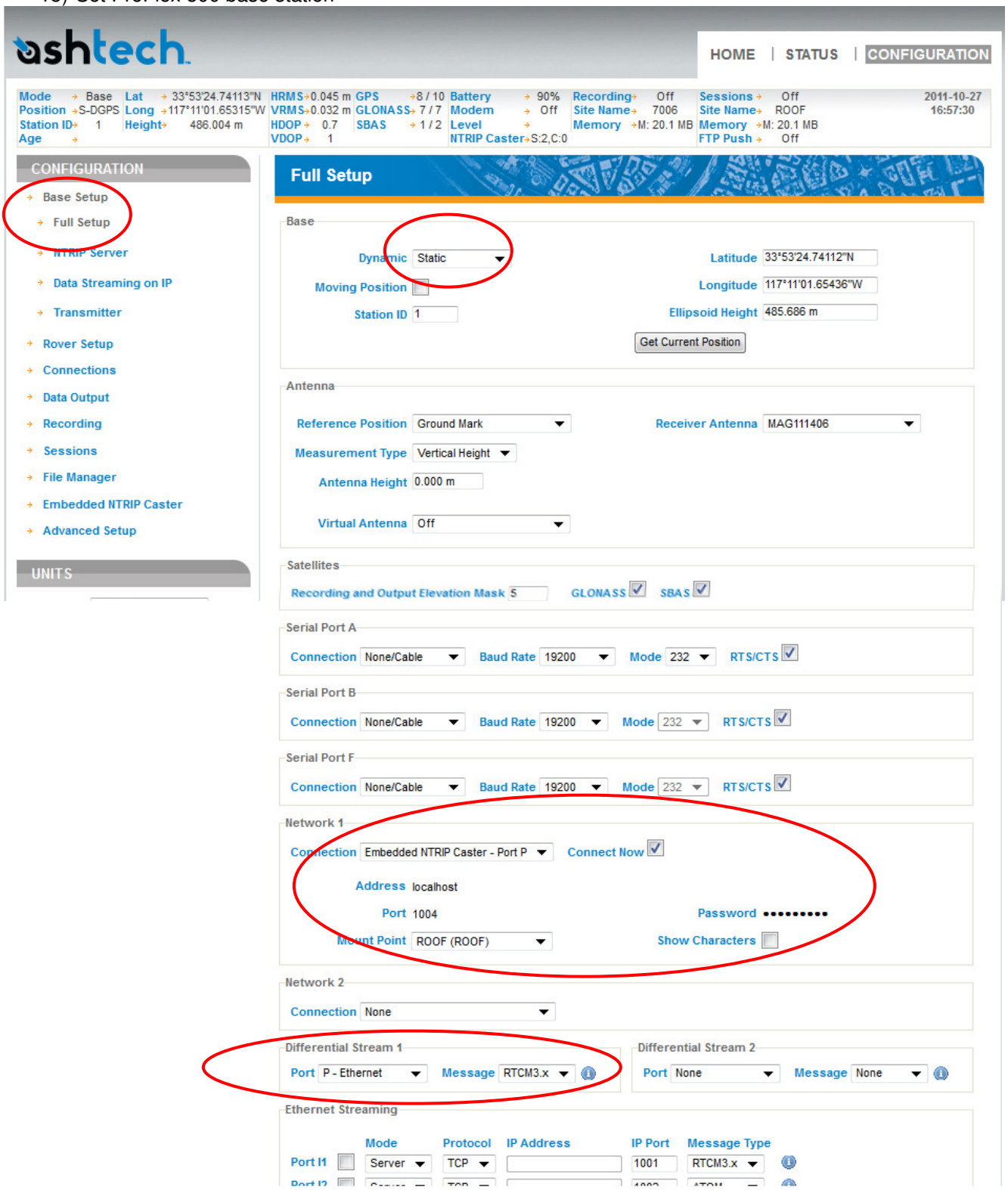
13) Set user access privileges



14) Activate the caster



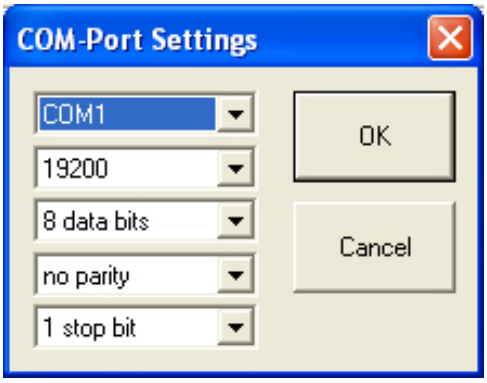
15) Set ProFlex 500 base station



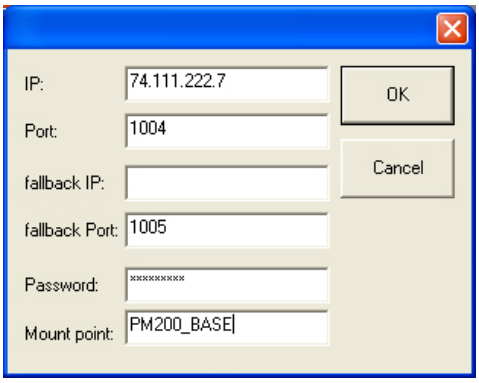
CONFIGURATION OF NTRIP Server

16) Download and install latest version of NTRIP Server from IGS / BKG website
    a. As of November, 2011 @ http://igs.bkg.bund.de/ntrip/download
    b. As of November, 2011 – current version is 1.3.1
    c. Installation should be to the PC connected to the ProMark 200 via cradle and serial cable

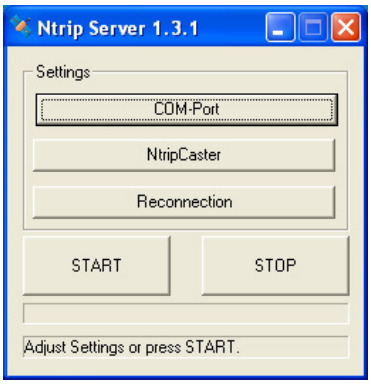
17) Configure Com-Port

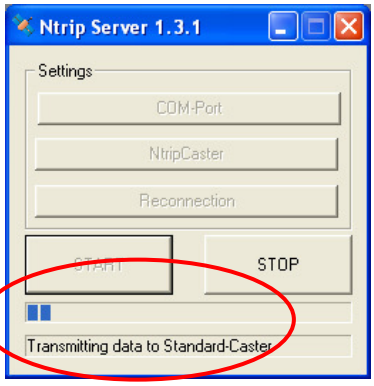


18) Configure NTRIPCaster

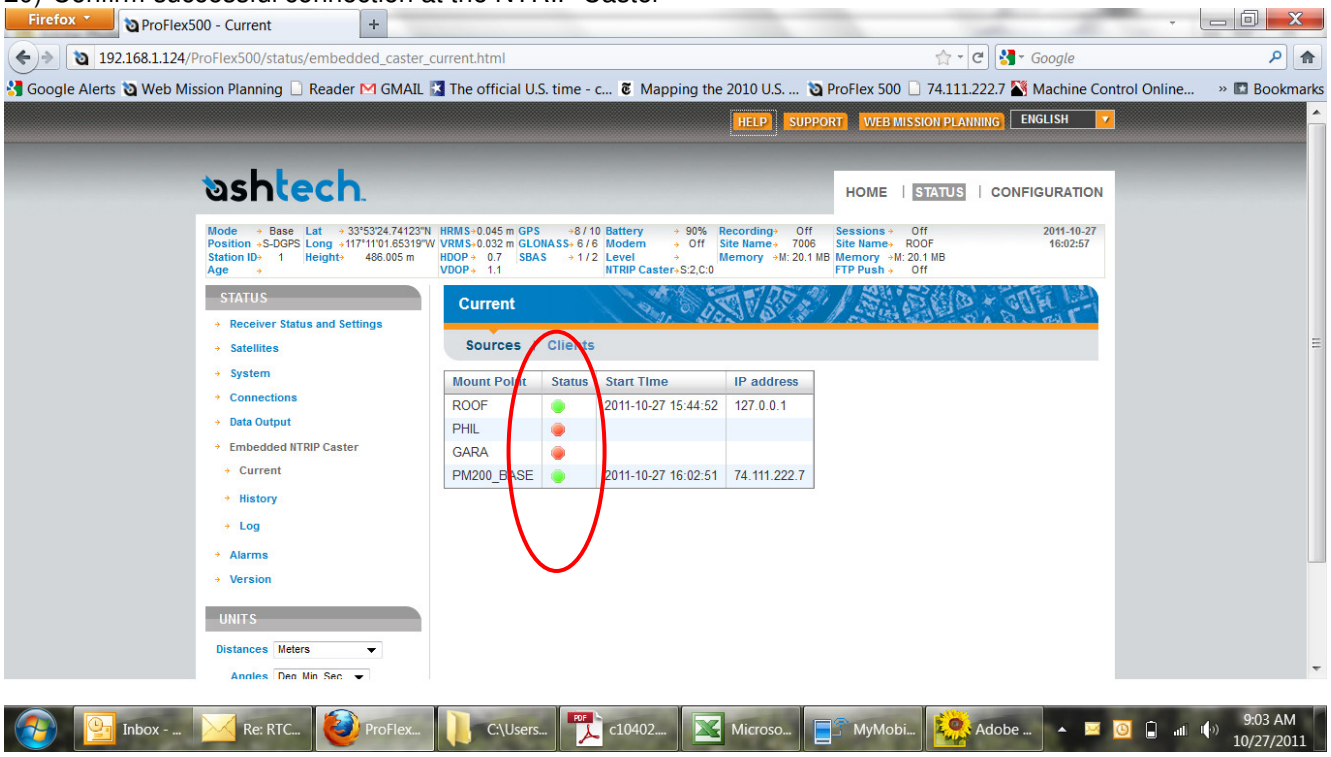


19) Hit the START button and observe stream





20) Confirm successful connection at the NTRIP Caster



EOR