

M-Local

M-Local coordinates shift the associated surveyed points with the same base station session to known coordinates. Some possible uses for *M-Local* include:

- ◆ Adjusting an autonomous base station to local control points
- ◆ Adjusting an autonomous base station to a post-processed derived position such as OPUS
- ◆ Shifting base and rover coordinates to the averaged coordinate of multiple DPOS base station sessions

Adjusting an autonomous base station to local control points



Use the button found in the *Processed Point Info* screen (see previous two pages) to add the current displayed point as a *M-Local* point. Once tapped, you be prompted to select or enter a coordinate. The translation from the displayed point (144 in this example) to the selected coordinate will be calculated. Multiple pairs of points can be added in *M-Local* to calculate a best fit translation; hence the term *Multiple Local* (0-Local has 0 pairs of points, 1-Local has 1 pair, 2-Local has 2, etc.).

Add M-Local Point Screen - Prompted to select the known coordinate for point 144

M-Local Screen - 3 pairs of points shown

The *M-Local* Screen displays the translation along the top row of the screen. Pairs of points can be used Horizontally, Vertically or only as check points. The residuals for each pair of points are shown in the middle of the screen. Be sure to press Apply to save the added points to *M-Local* and apply the adjustment to the associated base and rover coordinates.

144, IPF	Previous	Next
ABS	RTK _{BCP} Fixed	PPK _{BCP} Fixed
N, ft	+0.086	+0.086
E, ft	+0.001	+0.029
U, ft	-0.075	-0.093
RMS, ft	0.027, 0.036	0.023, 0.023
Epochs / s	11 / 307	1006 / 1023
Sats	6+7	9+8
Stat	10 / 0	5
Back		

Processed Point Info Screen - The M-Local coordinate is the current coordinate, 3 pairs of points exist in this M-Local setup


If the M-Local coordinate is not currently selected (radio button set to its column), select it for any point from this base station session to apply its translation to the selected point and all other associated points with the base station session.

144, IPF	Previous	Next
ABS	RTK _{BCP} Fixed	PPK _{BCP} Fixed
N, ft		
E, ft		
U, ft		
RMS, ft		
Epochs / s		
Sats		
Stat		
Back		

Processed Point Info Screen - Prompt to apply the M-Local coordinates to all the associated base and rover coordinates

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Adjusting an autonomous base station to a post-processed derived position such as OPUS


View the base point in the *Processed Point Info* screen and press the  button. Then choose *Manual* and enter the OPUS coordinates. After pressing OK you will be prompted to enter a point name for the newly entered coordinates. Once satisfied with the results in the *M-Local* screen hit Apply to save and apply the adjustment.

Alternatively, you could create a new design point with the known coordinates of the base station prior to entering the



M-Local screen by tapping the  (Add) button found in the design side of *Points* list and entering the coordinates for the new point.

Shifting base and rover coordinates to the averaged coordinate of multiple DPOS base station sessions

First average the base station coordinates from multiple base sessions using the *CoGo Average* function. Next view each base station point and use the  button to setup the translations to the averaged coordinate for each base station point.