Sat. Photogr. CE 697 Homework 3

assigned 13 Feb 2017, due 1 week (20th).

1. Fix errors (if necessary) in HW2 to get same results as published

2. put in the form of a function with syntax:

$$\begin{bmatrix} X \\ Y \\ Z \end{bmatrix} = fi2g(l, s, h)$$

with support data in global variables as:

global ephdata attdata
global eph_start_time first_line_time avg_line_rate dtl dte
global X0 Y0 Z0 det_pitch (note: Z0 just Princ Dist.)
global scan_direction

3. construct main script to
   (a) import support data & measurements
   (b) call function
   (c) compute + show mis-closure for GCP

4. add to function:
   (a) atmospheric refraction correction, and
   (b) velocity aberration correction

   for GCP1, run revised function on measurement of GCP1 (use my measurement!) and show mis-closure e, n, h

   note: There will be a surprise, give your hypothesis about the surprising result.