

Photo-1 2009 Homework 3

- Find the files oakland_ca.jpg and fgeotm.m in photo1_hw3.zip in my ftp folder.
- Locate and measure the image coordinates (l,s) or (r,c) for the indicated control points (note: not all of the digits are significant !)
- Using the given matlab file convert the latitude and longitude values to UTM zone 10.
- Estimate by (pseudo) least squares, the 8 coefficients $a_0, a_1, a_2, b_0, b_1, b_2, c_1, c_2$
- Compute the residuals (in image space)
- These coefficients will be used in the following assignment to produce the rectified image



1.	37.79429185239551	-122.2596788406372	pitcher's mound
2.	37.800760358476495	-122.25484281778335	center of fountain
3.	37.8051303063828	-122.26147055625915	end of dock
4.	37.81033491179257	-122.26154029369354	center of fountain
5.	37.79676741572901	-122.26687788963318	SW block corner
6.	37.802125200234485	-122.27882444858551	corner, base of building
7.	37.80708419555609	-122.27863132953644	SW corner bridge
8.	37.8141491290672	-122.27623343467712	SE corner, base of bldg
9.	37.81824707403118	-122.27346003055572	SE corner, base of bldg
10.	37.81560271779262	-122.28323936462402	SE corner, base of bldg
11.	37.811504626038	-122.29062616825104	SE corner, base of bldg
12.	37.80192598577343	-122.26692080497741	SE corner, base of bldg