

Field Identification

The following items were identified in the field.



1. Unclear points in the photo interpretation

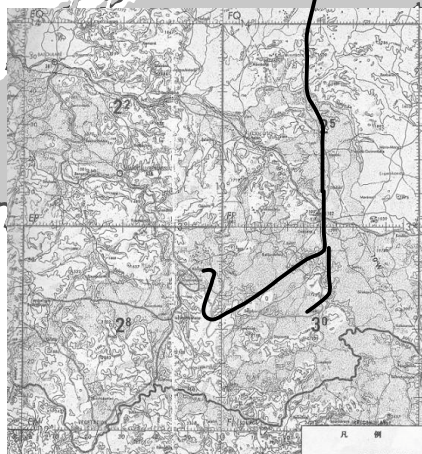
2. Results of photo identification

3. New public and governmental facilities

4. Tree height for counter line correction

5. Type of cultivated land

Geoid survey (Leveling)



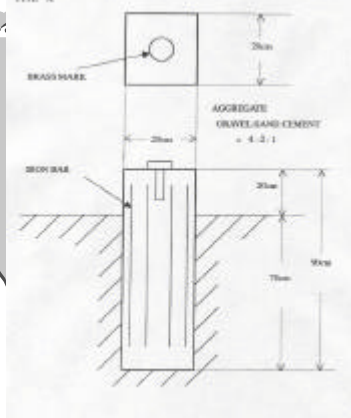
3rd Order Leveling

Route 1: 206km (21 points)

Route 2: 100km (9 points)

Route 3: 56km (6 points)

Monumentation of Benchmarks



Excavate a hole



Bury a benchmark



Install a benchmark

3rd Order Leveling



1. Observation



2. Calculation

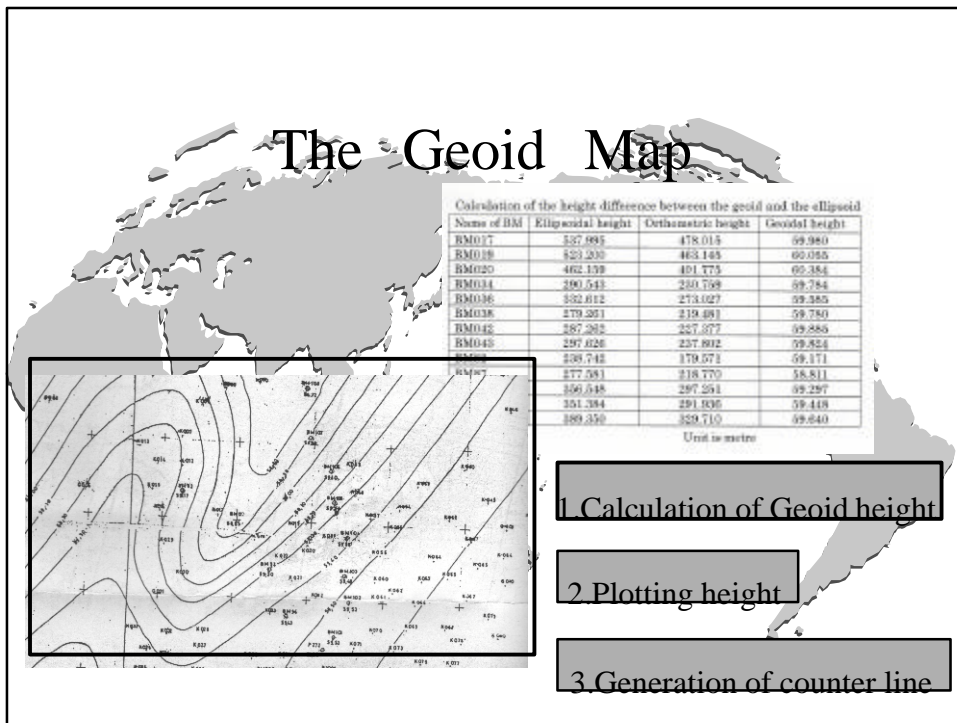
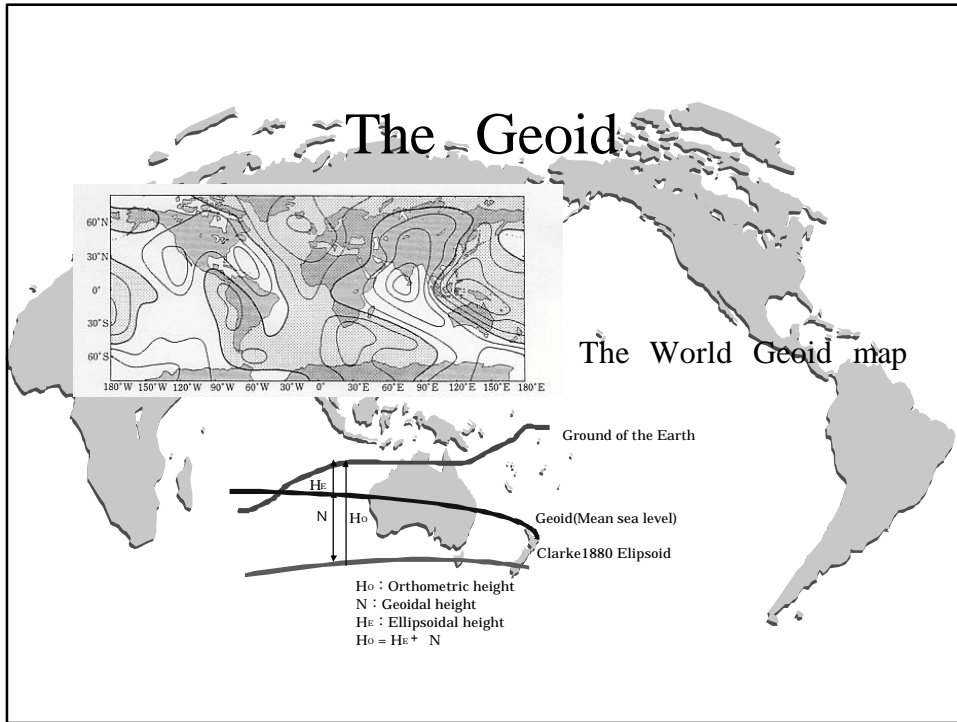


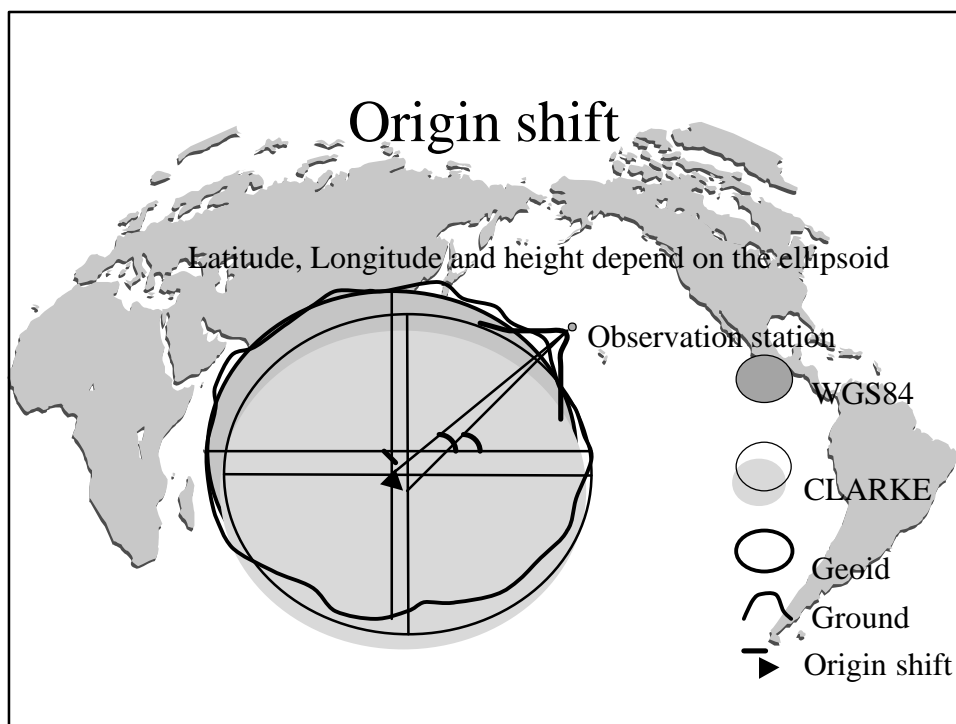
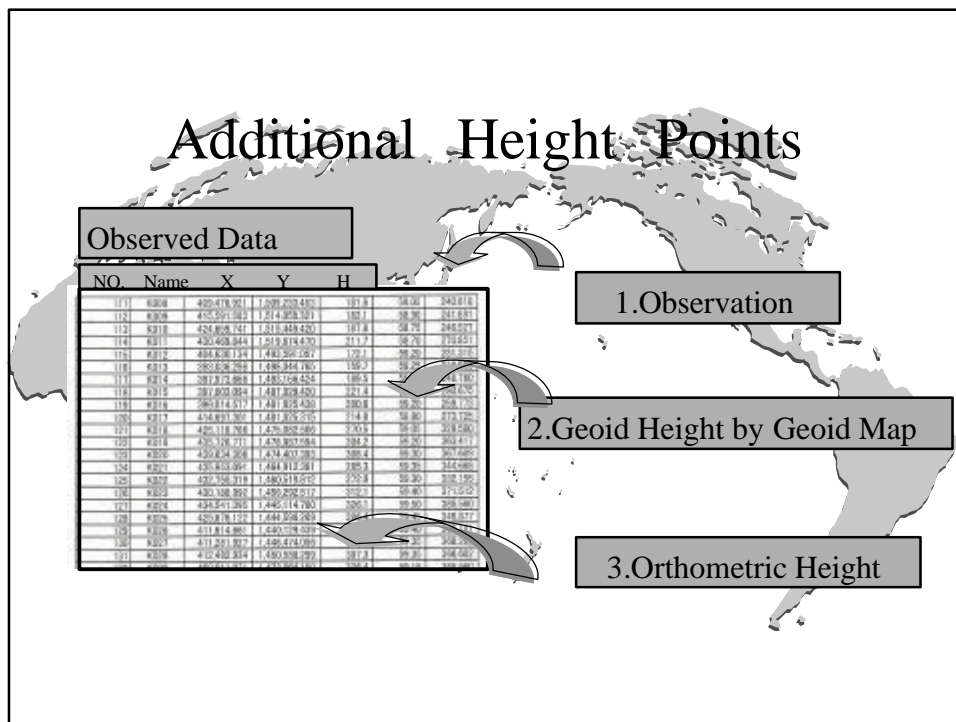
3. Checking residuals

4. Final Results

Field notes of elevation of some benchmarks

Route	No. of BM	Benchmark	Elevation (m)
Route 1	BM01	211.200	
	BM02	211.200	
	BM03	211.200	
	BM04	211.200	
	BM05	211.200	
	BM06	211.200	
	BM07	211.200	
	BM08	211.200	
	BM09	211.200	
	BM10	211.200	
	BM11	211.200	
	BM12	211.200	
	BM13	211.200	
	BM14	211.200	
	BM15	211.200	
BM16	211.200		
BM17	211.200		
BM18	211.200		
BM19	211.200		
BM20	211.200		
BM21	211.200		
BM22	211.200		
BM23	211.200		
BM24	211.200		
BM25	211.200		
BM26	211.200		
BM27	211.200		
BM28	211.200		
BM29	211.200		
BM30	211.200		
BM31	211.200		
BM32	211.200		
BM33	211.200		
BM34	211.200		
BM35	211.200		
BM36	211.200		
BM37	211.200		
BM38	211.200		
BM39	211.200		
BM40	211.200		
BM41	211.200		
BM42	211.200		
BM43	211.200		
BM44	211.200		
BM45	211.200		
BM46	211.200		
BM47	211.200		
BM48	211.200		
BM49	211.200		
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BM51	211.200		
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BM88	211.200		
BM89	211.200		
BM90	211.200		
BM91	211.200		
BM92	211.200		
BM93	211.200		
BM94	211.200		
BM95	211.200		
BM96	211.200		
BM97	211.200		
BM98	211.200		
BM99	211.200		
BM100	211.200		





Conversion between ellipsoids

Station: 272

Item	WGS-84	CLARKE1880
Semi major axis (m)	6378137.000	6378249.145
Flattering	1/298.257223563	1/293.465
Latitude	13° 5' 41.5754"	13° 5' 40.629"
Longitude	-9° 30' 43.2326"	-9° 30' 38.238"
Elevation (m)	453.399	393.87
X (m)	6128357.0205	6128456.1142
Y (m)	-1026855.7584	-1026719.7991
Z (m)	1435733.8248	1435563.5443
Δ X (m)	99.094	
Δ Y (m)	135.960	
Δ Z (m)	-170.281	

Ground Control Survey



1. Point Selection

2. Observation

3. Base line analysis

4. Final Result

STATION	DATE	TIME	COORDINATES	HEIGHT	TEMPERATURE	WIND	MOON	REMARKS
1	2000	08:00	111 111 111	111.111	11.111	11.111	11.111	11.111
2	2000	08:05	111 111 111	111.111	11.111	11.111	11.111	11.111
3	2000	08:10	111 111 111	111.111	11.111	11.111	11.111	11.111
4	2000	08:15	111 111 111	111.111	11.111	11.111	11.111	11.111
5	2000	08:20	111 111 111	111.111	11.111	11.111	11.111	11.111
6	2000	08:25	111 111 111	111.111	11.111	11.111	11.111	11.111
7	2000	08:30	111 111 111	111.111	11.111	11.111	11.111	11.111
8	2000	08:35	111 111 111	111.111	11.111	11.111	11.111	11.111
9	2000	08:40	111 111 111	111.111	11.111	11.111	11.111	11.111
10	2000	08:45	111 111 111	111.111	11.111	11.111	11.111	11.111
11	2000	08:50	111 111 111	111.111	11.111	11.111	11.111	11.111
12	2000	08:55	111 111 111	111.111	11.111	11.111	11.111	11.111
13	2000	09:00	111 111 111	111.111	11.111	11.111	11.111	11.111
14	2000	09:05	111 111 111	111.111	11.111	11.111	11.111	11.111
15	2000	09:10	111 111 111	111.111	11.111	11.111	11.111	11.111
16	2000	09:15	111 111 111	111.111	11.111	11.111	11.111	11.111
17	2000	09:20	111 111 111	111.111	11.111	11.111	11.111	11.111
18	2000	09:25	111 111 111	111.111	11.111	11.111	11.111	11.111
19	2000	09:30	111 111 111	111.111	11.111	11.111	11.111	11.111
20	2000	09:35	111 111 111	111.111	11.111	11.111	11.111	11.111
21	2000	09:40	111 111 111	111.111	11.111	11.111	11.111	11.111
22	2000	09:45	111 111 111	111.111	11.111	11.111	11.111	11.111
23	2000	09:50	111 111 111	111.111	11.111	11.111	11.111	11.111
24	2000	09:55	111 111 111	111.111	11.111	11.111	11.111	11.111
25	2000	10:00	111 111 111	111.111	11.111	11.111	11.111	11.111