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REPUBLIC OF THE PHILIPPINES
MINISTRY OF NATIONAL DEFENSE
BUREAU OF COAST AND GEODETIC SURVEY
421 Barraca St., San Nicolas, Manila

MINUTES OF THE MEETING ON THE
CAGAYAN VALLEY TOPOGRAPHIC MAPPING PROJECT

Dates: 7 and 8 September 1981

Place: Map Production Center Conference Room
Bureau of Coast & Geodetic Survey
Ministry of National Defense

Attended by:

<u>B C G S</u>	<u>Embassy of Japan and JICA</u>
Commo. A. P. Ventura	Messrs. T. Shimogami, First Secretary, Embassy of Japan
Capt. C. R. Pascual	
Lieut. J. G. Isada	S. Shino, JICA Team Leader
R. R. Pascua	
R. J. Meris	
Messrs. G. C. Angeles	A. Yaguchi, Geographical Survey Institute
P. C. Ciceron	
I. M. Serdar	
B. E. Goodrick	H. Murayama, JICA Member
K. M. Kulatunga	

Commo. A. P. Ventura, Director, BCGS, presided over the meeting. Before the meeting proceeded, the JICA mission presented the Annual Report on the Topographic Mapping Project for Cagayan Valley (3rd Year) to the Director. The following items were discussed and agreed upon:

I. Report on Present Progress Status

The JICA mission advised the progress status as follows:

a. Aerial Triangulation

Block adjustment has already been completed, subject to acceptance by JICA. JICA originally intended to adjust with 6 blocks, but after measurement, found that it can be processed with 5 blocks instead, with 200 to 300 models per block.

Tel. No. 47-96-11 to 14

Telex No. RCA 722-7373 CGS PH

b. Stereoplotting

6 sheets out of 72 sheets have been plotted.

c. Editing

One sheet has been compiled already, the TABUK area. JICA decided this to be the pilot sheet since it is the administrative center of Kalinga-Apayao, including typical topography features.

d. Orthophoto

The scanning stage is still in progress.

The JICA mission showed the TABUK Sheet and one orthophoto model for the purpose of process explanation.

II. Matters Concerning Topographic Maps Scale 1:25,000

1. The following materials have been furnished to JICA by BCGS:

- a. Map Symbol Specification (Annex I - 5 copies)
- b. Master reproduction material of the marginal information format (2 sheets)
- c. BCGS Seal (contained in item b above)
- d. Stick-up samples (pattern screens -- 15 sheets)
- e. Photo typeset sample (Jap. Morisawa -- 8 sheets)
- f. Bathymetric Data (33 sheets)
- g. Corrected list of sheet names and sheet numbers and index (Annex II)

2. The materials that the JICA mission expect to receive no later than the middle of October, which should be hand-carried by Lieut. R. Feir:

- a. Colour separated master reproduction materials of the marginal information format
- b. Sample printed map sheet
- c. Part of stick-up samples (P1, P9, P13, P18)
- d. Magnetic Declination data

3. The new map symbol specification (Annex I) was discussed, and some corrections on omissions and discrepancies were made.

Also, some alterations were proposed. So, it was agreed that this problem will be resolved at the next meeting (Annex III).

4. Concerning the new map symbol specifications, the following agreements were made:
 - a. In case of conflicts, the previous agreement on standards and specifications on topographic mapping, 1:25,000 scale, will be adhered to. However, the new specification will be followed for the finished product.
 - b. It was agreed that a statement on map accuracy will be omitted from printed maps in the project area.
 - c. The BCGS will determine the classification of geographic names according to importance, and JICA will amend as recommended. The BCGS will classify geographical names by end of February.
 - d. Barangay boundaries will not be put in this map series.
 - e. It was agreed that roads not already classified as National or Provincial Highways may be designated as barangay roads.
5. Work flow on Cartography has been presented. A sample of specification of map paper were submitted for evaluation. The BCGS will advise JICA as to acceptability of the map paper next meeting.
6. If the difference between the field classification and photo interpretation on instrument concerning road surface arises, JICA will give priority to the latter.

III. Matters Concerning Orthophoto Maps Scale 1:10,000

1. The following materials have been transferred to JICA from BCGS:
 - a. Master reproduction material of the marginal information format (standard for UTM system), and
 - b. List of proposed sheet names and sheet numbers and index diagrams (Annex IV).

2. Final agreement of projection

In order to avoid extra effort on the part of JICA, BCGS agreed to treat the Cagayan Valley OPMS as non-standard, adopting the PTM projection, but will not allocate PTM numbers. However, the following information should be included:

Part of Philippine National OPM Series
1:10,000 Sheets _____, etc.

3. The geographical names on the topo map 1:25,000 series will be adopted to the orthophoto map 1:10,000 series, but if lettering is not appropriate, JICA will use their discretion.

IV. Other Matters

1. Security Officer

JICA requested BCGS to process the papers for the next security officer much earlier than before. He suggested the following schedule for the next batch of trainees (security officers):

2nd batch -- 15 October to 23 December 1981
(should arrive 12 October at the latest)

3rd batch -- 11 January to 30 April 1982 (nominations should reach the Embassy of Japan by end of November)

It was further requested that J2 be informed of the above schedule.

2. In addition to the pilot sheet of TABUK, survey team will provide BCGS some dyeline copies of plotted manuscripts in advance, as soon as ready, for use of BCGS in preparation for their field completion and editing.
3. The JICA survey team completion party work shall be confined only to editing or completion of portion of the sheets where there are on-going infrastructure projects not existing before at the time when the photographs were taken, and will also do a sampling check in any specific area in the region.

The JICA survey team will arrive on 4 January 1982, and they request that the following be provided by BCGS:

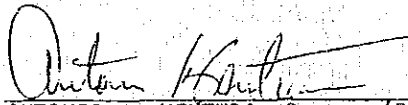
- a. Provision for security and safety of the JICA mission,
- b. Drivers, maximum of 10, and
- c. Liaison officers/BCGS counterpart field completion party (3).

Instructions to counterpart, field completion party, shall include field editing of the map sheets as follows:

- a. Geographical names,
 - b. Administrative boundaries, and
 - c. Road classification.
4. Official Presentation of Orthophoto Maps by the Japanese Government to the Philippine Government

Shall be tentatively held on January 1982. Preliminary discussion has been held between the representative of the Embassy of Japan and the JICA mission on one hand and the representative of the Ministry of National Defense and the representative of the BCGS on the other hand. Specific details will be discussed later on between the said parties.

APPROVED:



ANTONIO P. VENTURA, Commo. (Ret.), BCGS
Director



AKIRA YAGUCHI
Geographical Survey Institute

10th September, 1981
Date

TOPOGRAPHIC MAPS FOR CAGAYAN VALLEY MAPPING PROJECT

Scale 1:25,000

<u>Sheet No.</u>	<u>Name of Sheet</u>
1. 3238 - III C	CLAVERIA
2. 3238 - III B	SANCHEZ MIRA
3. 3238 - II C	BALINGUIT
4. 3237 - IV A	MASI
5. 3237 - I D	PAMPLONA
6. 3237 - I A	ABULUG
7. 3337 - IV D	BALLESTEROS
8. 3437 - IV D	BATULINAO POINT
9. 3437 - IV A	SANTA ANA
10. 3237 - I B	SANTA MARCELA
11. 3337 - IV C	BANGAG
12. 3337 - IV B	APARRI
13. 3337 - I C	BUGUEY
14. 3337 - I.B	GONZAGA
15. 3437 - IV C	IPIL
16. 3437 - IV B	MOUNT TAPHA
17. 3237 - II A	FLORA
18. 3337 - III D	ALLACAPAN
19. 3337 - III A	LAL-LO
20. 3337 - II D	PACAC
21. 3337 - II A	DONGENG
22. 3437 - III D	MOUNT CAGUA
23. 3237 - II B	SICALAO
24. 3337 - III C	LASAM
25. 3337 - III B	GATTARAN
26. 3337 - II C	CAPISAYAN
27. 3236 - I A	LUGIRAO
28. 3336 - IV D	SANTA FELICITAS
29. 3336 - IV A	ALCALA
30. 3336 - I D	BACGAO
31. 3236 - I B	GADDANGAO
32. 3336 - IV C	TABANG
33. 3336 - IV B	AMULUNG
34. 3336 - I C	JUNGLE MOUNTAIN
35. 3236 - II A	TUAO
36. 3336 - III D	GADU
37. 3336 - III A	SOLANA
38. 3336 - II D	CALLAO
39. 3236 - II B	CAMCAMALOG
40. 3336 - III C	CABARITAN
41. 3336 - III B	TUGUECARAO
42. 3336 - II C	TAGGA
43. 3235 - I A	TABUK
44. 3335 - IV D	SANCHEZ
45. 3335 - IV A	DALAG

46. 3335 - I D
 47. 3335 - IV C
 48. 3335 - IV B
 49. 3335 - I C
 50. 3335 - III D
 51. 3335 - III A
 52. 3335 - II D
 53. 3335 - II A
 54. 3335 - III C
 55. 3335 - III B
 56. 3335 - II C
 57. 3335 - II B
 58. 3334 - IV D
 59. 3334 - IV A
 60. 3334 - I D
 61. 3334 - I A
 62. 3334 - IV C
 63. 3334 - IV B
 64. 3334 - I C
 65. 3334 - I B
 66. 3334 - III D
 67. 3334 - III A
 68. 3334 - II D
 69. 3334 - III C
 70. 3334 - III B
 71. 3334 - II C
 72. 3238 - III A

CABAGAN
 BARUCBUC
 ANEG
 TUMAUNINI
 MALLIG
 HOLY FRIDAY
 MANCURAM
 ILAGAN
 CALLANG
 BURGOS
 NAGUILIAN
 YEBAN
 MARASAT GRANDE
 CABATUAN
 CAUAYAN
 SAN MARIANO
 RAMON
 ALICIA
 SINALUGAN
 MADALAN RIVER
 SANTIAGO
 ECHAGUE
 MACALAUAT
 CABARROGUIS
 JONES
 LINOMUT
 PATA POINT

ANNEX III

AMENDMENTS OF MAP SYMBOL SPECIFICATION

1. Road Symbols (2.2 and 2.3)

JICA is of the opinion that the National and Provincial Highway symbols should be tinner than specified.

On 2.5 -- Trail, likewise, JICA thinks this to be too heavy and recommends the line to be less than 0.2 mm.

JICA recommended tht Gravel nd Erth should be a single classification. BCGS would consider the recommendtions at the time of test printing.

2. Section 4, Page 3 (4.8 and 4.9)

Route Markers -- should be drawn at the size in the Specifications Manual. The 10 mm has been erroneously indicated. To be corrected. Variation for 2-digit names is allowed.

3. Section 5, Page 1 -- Built-Up Areas

There is no symbol for this, BCGS will include in the specification.

4. Section 5, Page 5

Symbols for :

Provincial Capitol -- should be PG (Provincial Government)

Municipal Building -- change to MH (Municipal Hall)

School -- to be symbolized by a flag or pennant

Ruins -- to be symbolized by a broken line

Hospital -- should be H only

Chimney

Radio Mast Describe as necessary

Tower

It should be noted that above changes should also appear in the Legend.

5. Section 6, Pages 3 and 4
Spot Elevation -- should be brown instead of black.
Boundary Line, Airport -- outline of runway should be included in a thin line (0.1 mm).

6. Section 7, Page 1 (7.6.2)
Amend. Should be Municipal or City instead of Provincial or City.
Clarification : City should be equivalent to municipality NOT province. Specs to be amended.

7. Section 8, Page 7
Contour interval (topograph), should be as follows for 1:25,000:
 Depth Contour -- 20 m.
 Index Contour -- 100 m.
It should be noted that the following should be:
 For Land -- 10 m.
 For Sea -- 20 m.
Scale will be amended to correct interval.

8. Section 9, Page 3
Cliff -- Amendment for black to brown, 0.5 instead of 0.6 mm. For further study by BCGS.

9. Section 11, Page 7
Geographical Names -- the point and size of name will depend upon the size of town or municipality.
It should be noted that the Regional Boundary is also the Provincial Boundary -- hence, it will appear like this :
Regional Boundary and Region No. first, followed by the Provincial Boundary name.

MINUTES OF THE MEETING ON THE CAGAYAN VALLEY TOPOGRAPHIC MAPPING PROJECT

D a t e s : 8 - 21 January 1982
P l a c e : Map Production Center Conference Room
Bureau of Coast and Geodetic Survey
Ministry of National Defense

ATTENDED BY :

B C G S

Commodore Antonio P. Ventura
Captain Mamerto S. Gler
Lcdr. Renato B. Feir
Lcdr. Rodrigo R. Pascua
Lt. Jose Galo Isada, Jr.
Lt. Basilio D. Apostol

EMBASSY OF JAPAN

Mr. Tamio Shimogami - First Secretary
J I C A
Mr. Akira Yaguchi - Geographical Survey
Institute
Mr. Shigehiko Shino - Team Leader
Mr. Toshimasa Nagashima - Deputy Team Leader
Mr. Chuji Misawa - Chief Surveyor
Mr. Yoshihiro Kuriyama - Chief Cartographer
Mr. Fuminori Nofuku - Coordinator

The following matters pertaining to the Cagayan Valley Topographic Mapping Project were discussed and confirmed by both parties :

1. Report on present progress status of mapping project :

The JICA mission advised the progress status of the 4th stage of the mapping project as follows :

1.1 Orthophoto :

The preparation of orthophoto maps at scale 1:10,000 for Gonzaga, Casabalangan, Ilagan and Tuguegarao have been completed. The following products/by products of orthophotomaps production were left under the custody of BCGS.

39 Pcs. - Orthophoto Negative Films
12 Pcs. - Mosaic Positive Films
12 Pcs. - Original Contour overlay sheets
12 Pcs. - Negative Films for Photographs
12 Pcs. - Original Marginal Borders
12 Pcs. - Negative Films, Marginal Border
12 Pcs. - Positive Films, Printing

- 12 Pcs. - Negative Films, Printing
- 12 Pcs. - Positive Films, Diazo Copy
- 180 Pcs. - Orthophoto Diazo Copies (15 sets of 12 sheets/set)
- 84 Pcs. - Orthophoto (7 sets of 12 sheets/set)

1.2 Stereoplotting :

Plotting for the 72 map sheets covering the whole project area have been completed.

1.3 Editing :

Editing of the 72 map sheets have been completed. Bathymetric data furnished by BCGS was likewise incorporated in the sheets. Diazo copies of the compilation sheets were prepared for use in the field verification and completion work.

1.4 Sample Map Sheet :

A colored sample map sheet in the project area using BCGS specifications was prepared and presented to BCGS for comments.

2. Turn-over of Orthophoto Maps :

It was agreed that the Ambassador of Japan, in behalf of the Government of Japan, will officially turn over the orthophoto maps to the Minister of National Defense in behalf of the Philippine Government. The final date will be arranged by the BCGS and the Embassy of Japan, preferably on the last week of February 1982.

3. Outline of field completion survey :

3.1 Field survey by the JICA Team :

- a) The JICA survey team shall confine their field completion on areas where there are on-going infrastructure projects not existing during the time of photography.

- b) Random check of elevation and planimetry.
- c) Confirm topography.
- d) Delineate high tension power transmission lines and NIA projects.
- e) Delineation of vegetation limits on uncultivated areas will be upgraded.

All the above fieldwork will be limited on areas near highways.

3.2 Field Survey by the BCGS Team :

- a) Collate and check data on administrative boundaries.
- b) Collate and check geographical names and other nomenclatures like names of large bridges, creeks and rivers and prominent schools and government buildings etc. Place names shall be annotated on the field completion sheets and corresponding letter sizes shall also be indicated, depending on their importance.
- c) Gather information on road classifications and their respective names.
- d) Act as coordinator/liason officers of the combined BCGS/JICA survey parties, with local officials.

4. Administrative matters concerning field survey :

- 4.1 BCGS shall deploy four (4) commissioned officers and four (4) enlisted personnel as counterpart on the 4th stage of the project. Travel and miscellaneous expenses by these personnel shall be provided by BCGS.
- 4.2 Eight (8) BCGS drivers shall be provided the JICA survey teams. Allowances for these personnel shall be borne by the JICA Team.
- 4.3 JICA team leader requested that instructions on safety shall be disseminated and emphasized to the BCGS drivers. Likewise good public relations and courtesy must always be exercised by both BCGS and JICA team members with the local people, in order not to create unnecessary problems.

- 4.4 JICA team leader requested that BCGS prepare letters to different Government officials in the region, informing them of the presence of the BCGS - JICA survey teams, and requesting these officials for whatever assistance they can provide the fieldmen.
- 4.5 JICA agreed to provide vehicles for use of the BCGS counterpart.
- 4.6 Field annotation sheets of BCGS will be checked and submitted to the JICA Team. These will be authoritative and no changes and/or alterations will be accepted once scribing started.

5. Cartographic Matters :

JICA Survey Team prepared and submitted a colored sample map sheet and a table of specifications for study by the BCGS and JICA mission. The following were agreed upon :

- 5.1 The table of symbol specifications was studied. Corrections and/or alterations were made. The corrected symbol specification will be adhered to by JICA as per Annex I.
- 5.2 The types and sizes of letters to be used in the topographic maps were discussed. It was agreed that the equivalent of the Morisawa type set will be utilized by JICA. Corresponding letter types and sizes were then selected and compiled in a table form as per Annex II.
- 5.3 The 120 lines/inch type of screen was agreed as a substitute with the 133 lines/inch screen for use in all screen work.
- 5.4 Marginal Information :
 - a) Region No., Province and Municipality at the upper left hand corner shall correspond with the name of the sheet.
 - b) Add the term " DEPTH CONTOUR INTERVAL 20 METERS " below the graphic scale.
 - c) The footnote at the bottom left hand corner will be checked. The information for MAP ACCURACY will be deleted and instead information to the effect that boundary information is not authoritative will be indicated.

- d) The Index to Adjoining Sheet will carry the title and the map number of the particular sheet and all others will have the map number only. BCGS provided the map numbers for areas adjoining the project areas. Names that are too long and composed of two or more words will be indicated on two lines.
- e) Shoreline at the Locality Diagram should be shown in Black.
- f) Angles of the magnetic declination should be shown smaller than that in sample map sheet. Values of the magnetic declination be expressed to the nearest 5 minutes reckoned from true north and the direction E or W be indicated. Values of convergence of the meridians should be expressed in minutes and nearest seconds. Both values shall be indicated with 2 digit numbers, except the degrees part.
- g) Delete Project Registration Number, e.g. BCGS 81-06 at lower right hand corner.
- h) BCGS provided a format as per Annex III, indicating positions, letter types and sizes of marginal information.
- i) Symbol for lighthouse shall be included in the legend.
- j) BCGS provided sample legend based on corrected map symbols and specifications.
- k) Edition number shall be : EDITION 1 1983.

5.5 Additional Information on Symbols :

- a) Letters of regions, provinces and municipalities along the borders will be reduced to size 9, so with the term " ALIGNMENT APPROXIMATE ". The term maybe omitted on very short boundary lines or where the space is congested.
- b) Name of municipalities shall only be placed at the town proper and not on their administrative areas.

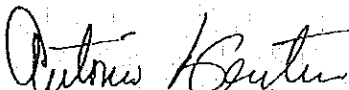
- c) Large buildings and bridges are to be annotated if space permits.
- d) Symbols of buildings that are adjacent to road system shall retain their position, but the symbolization like flag, cross etc. can be rotated.
- e) Road Names - Roads will be indicated by route markers. However all unnumbered roads or highways shall be annotated according to administrative classification such as "National Highway", "Provincial Road". In case the road is of significant importance whether numbered or unnumbered, the name of the road shall be annotated.
- f) Contour values - shall be indicated on map sheet following the "UP SLOPE" rule.
- g) Fruit trees - will be generalized and annotations be omitted if not *photo identified*.
- h) Tree rows - Only those remarkable as landmark will be shown.
- i) Siphon - Dash line will be adopted as symbol, and on large projects these will be annotated.
- j) Coral Reef - adopt symbol for reef.
- k) Ferry - Annotation should only be used on large crossing where vehicles, people and cargoes can be carried over.
- l) Breakwater which cannot be plotted to scale will be omitted.
- m) Annotations for permanent or man-made features like post office, government buildings, hospitals, towers and the like shall be vertical. Annotations for running features shall be slanting.
- n) Eliminate names and numbers of control stations, but height information shall be indicated if available.
- o) Bridges less than 20 meters shall be symbolized as culverts.
- p) Tower - All structures like chimney, radio mast and the like shall all be annotated "Tower".

5.6 Additional Information :

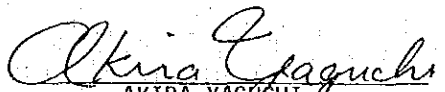
- a) Depth curves checked and confirmed by BCGS will be provided to JICA.
- b) Bench marks not recovered during the third phase of the survey shall not be included on the map.

6. Other Matters :

- 6.1 BCGS informed the JICA mission that Lt. Macaraeg of BCGS and Major Marannon of J-2 have already completed their papers regarding training/security work in Japan. Papers were already submitted to JICA Manila and waiting for approval of the JAPANESE GOVERNMENT. BCGS and J-2 will help facilitate travel papers for security officers once approval be received.
- 6.2 BCGS requested the JICA mission that trainees on Cartography and Map Reproduction shall be considered on the next phase of the project.
- 6.3 BCGS requested also JICA to admit responsible BCGS officer to Japan to inspect mapping materials before reproduction commence.
- 6.4 BCGS reiterated request for the donation of the JICA vehicles used in the CAGAYAN VALLEY TOPOGRAPHIC MAPPING PROJECT to the BCGS. Letter request was already forwarded to JICA Manila.


 ANTONIO P. VENTURA, Commodore, BCGS (Ret.)
 Director

Bureau of Coast and Geodetic Survey


 AKIRA YAGUCHI
 Geographical Survey Institute

21 Jan 87
 Date

Republic of the Philippines
Ministry of National Defense
BUREAU OF COAST AND GEODETIC SURVEY
M a n i l a

MINUTES OF THE MEETING ON THE CAGAYAN VALLEY TOPOGRAPHIC MAPPING PROJECT

D a t e s : 24 February - 3 March 1982
P l a c e : Map Production Center Conference Room
Bureau of Coast and Geodetic Survey
Ministry of National Defense

ATTENDED BY :

B C G S

Commodore Antonio P. Ventura
Capt. Mamerto S. Gler
Lcdr. Renato B. Feir
Lcdr. Rodrigo R. Pascua
Lt. Basilio D. Apostol
Lt. (jg) John C. Muyargas

J I C A

Mr. Ryo Saita - Geographical Survey Institute
Mr. Shigehiko Shino - Team Leader
Mr. Toshimasa Nagashima - Deputy Team Leader
Mr. Haruo Wada - Coordinator
Mr. Atsushi Okuizumi - Coordinator
Mr. Isamu Saito - Staff Member

The following matters regarding the 4th stage of the Cagayan Valley Topographic Mapping Project were discussed and confirmed by both parties.

1. Accomplishment during the 4th stage :

1.1 Field survey by the JICA Team :

- a. All work stipulated on paragraph 3.1 on the minutes of the meeting on 8-21 January 1982, were accomplished.
- b. All municipal halls and some other government buildings were photo-identified and verified.
- c. Measured lengths of bridges that were annotated and which are more than forty (40) meters.

NOTE :

1. Field verification at the vicinity of the Chico Diversion Dam at Tabuk, Kalinga-Apayao was not undertaken due to the deteriorating peace and order condition in the area.

2. Random check of elevation were undertaken on the following map sheets:
SAMPAGUITA: TALLAG: BURGOS: AND SAN MATEO.

Random check of planimetric details were made on the following map sheets: APARRI: RIZAL: SANTIAGO and NAGUILIAN (Appendix 3).

Results of random check both in elevation and planimetry were all within the tolerance limits.

1.2 Field survey by the BCGS :

All fieldwork agreed on paragraph 3.2 of the minutes of the meeting on 8-21 January 1982, were undertaken.

2. Problems encountered :

2.1 Annotations :

a. Roads will be annotated following two (2) criteria :

- i) Names are significant
- ii) Space in the map sheet permits annotation and will not congest the area.

Positioning of route markers shall be oriented to the grid north.

b. Bridges will be annotated following the two (2) criteria for road annotation mentioned above.

c. BCGS survey teams verified titles of map sheets and found out that some were misspelled and others were no longer applicable.

It was then decided that titles in error will be changed.

Appendix I carries the new map titles.

d. Provincial capitols and other similar government facilities will be annotated with complete name if space permits.

2.2 Cartographic Matters :

- a. Symbol for slope will be eliminated.
- b. Symbol for built up areas will utilize screen D 120-45-20 instead of LT-22. This will have RED color.
- c. Symbol for intermittent and indefinite streams will follow BCGS specifications except the gap which will be 1.0 instead of 0.5.
- d. BCGS request JICA for following :
 - i) Complete set of the 120 lines per inch screens used in the project.
 - ii) Reproducible of master border.
 - iii) A complete tabulation of all symbols and specifications used in the project. (ANNEX I of the minutes of the meeting on 8-21 January 1982).
- e. Any symbol/specification that will be used in the project but were not taken up by BCGS and JICA, will be resolve by the latter with prior notification of the former.
- f. Sheet arrangement on the Index to adjoining sheet having odd number of sheets will be left at the discretion of JICA.
- g. Swampy areas at the vicinity of Buguey will be symbolized at the descretion of JICA.

3. Schedules - Activities for Fiscal Year 1982 :

- 3.1 May - December 1982 - Cartographic Compilation
- December 1982 - January 1983 - Reproduction
- February 1983 - Transport of maps/records including all by products to the Philippines.

March 1983 - Turn-over of maps to the Philippine Government.

3.2 Training - - -

a. May - August 1982 - 2 trainees for Cartography

b. September - December 1982 - 2 trainees for Cartography and Reproduction

c. December - 1 Senior trainee for Reproduction and Management in map production.

BCGS reiterates request for trainees in cartography and reproduction on the above schedules. Likewise BCGS reiterates request for the Director or his authorized representative to inspect map reproducibles before the start of printing.

4. Miscellaneous :

4.1 Comments on the turn-over ceremonies of the orthophoto maps under this project. Attached herewith is the program of activities during the turn-over ceremony of the orthophoto maps (Appendix 2).

High official of the Ministry of National Defense and local government officials including the Vice Governor of Cagayan and the Mayor of Tuguegarao, Cagayan attended the ceremony. Philippine officials express their appreciation, to the Japanese government for the mapping assistance extended to the country.

4.2 Plans for the turn-over of the Topographic maps.

JICA suggested that if possible the President will receive the topographic maps in behalf of the Republic of the Philippines but official plans for this ceremony will be made on the next visit of the JICA Team Leader.

BCGS suggested that ranking officer of Geographical Survey Institute be likewise be present at the ceremony.

4.3 Proposal of a Japanese expert on mapping and charting.

The JICA mission thru Mr. Ryo Saita of the Geographical Survey Institute of Japan offered to BCGS the services of a Japanese expert in surveying and mapping to assist BCGS on different phases of mapping. The expert can assist on Project Identification, Technology Transfer and also on particular phases of mapping like data acquisition and computerization. BCGS was receptive of this proposal and promised to follow this matter with the Japan Embassy. BCGS would appreciate very much if Japan can assist this agency both on bathymetric and topographic mapping. BCGS suggested the possibility for JICA to extend the Cagayan Valley Mapping towards the western part of Luzon or the island of Palawan. JICA promise to look into this matter.

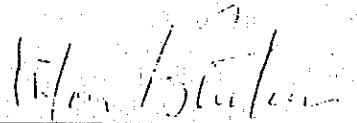
BCGS request the possibility of acquiring Satellite Imageries of the Philippines from the Japan receiving station and the JICA mission will look into the possibility of this request.


4.4 Review of Over-all Training at Japan.

The JICA mission thru Mr. Haruo Wada informed BCGS that Japan is open for trainees from the Philippines, both on individual and group training. BCGS emphasized that training on surveying and mapping is very much needed and would appreciate if this will be extended to BCGS personnel.

4.5 Awarding of certificates to the JICA survey team.

The Director of the Bureau of Coast and Geodetic Survey awarded a plaque of appreciation to the JICA Team Leader and Certificates of Appreciation to the Team members for their diligence and untiring effort in making possible the production of a large scale map coverage of Cagayan Valley needed for the socio-economic development of the region.


ANTONIO P. VENTURA
Commodore, BCGS (Ret.)
Director
Bureau of Coast and Geodetic Survey


RYO SAITA
Geographical Survey Institute

3 March 1982
D a t e

P R O G R A M

MINISTRY OF NATIONAL DEFENSE
BUREAU OF COAST AND GEODETIC SURVEY
JAPAN INTERNATIONAL COOPERATION AGENCY
AND
THE JAPANESE EMBASSY

PRESENTATION CEREMONY
OF ORTHO-PHOTO MAPS TO BE HELD
ON 1000 HRS. 24 FEBRUARY 1982 AT
MOND HALL OF FLAGS
Camp Aguinaldo, Quezon City

TURN OVER OF THE ORTHO-PHOTO MAPS OF THE BCGS - JICA
MAPPING PROJECT IN CAGAYAN BY JAPANESE GOVERNMENT
TO THE PHILIPPINE GOVERNMENT

- | | | |
|---|-------|--|
| 1. NATIONAL ANTHEMS | ----- | PHILIPPINES AND JAPAN |
| 2. OPENING REMARKS BY | ----- | ANTONIO P. VENTURA
Commodore, BCGS (Ret.)
Director, BCGS |
| 3. STATEMENT BY JICA - IECA REPRESENTATIVE | ----- | MR. SHIGEHICO SHINO |
| 4. PRESENTATION OF THE ORTHO-PHOTO MAPS BY THE
JAPANESE AMBASSADOR TO THE PHILIPPINES | ----- | HON. HIDEHO TANAKA |
| 5. ACCEPTANCE AND RESPONSE BY THE MINISTER OF
NATIONAL DEFENSE | ----- | HON. JUAN PONCE ENRILE |
| 6. PRESENTATION OF THE DONATION OF VEHICLES BY MR. HIDEKO MIURA
TO THE DIRECTOR, BCGS. | | |

COCKTAIL FOLLOWS

THE BRIEF STATEMENT BY
JICA-IECA REPRESENTATIVE MR. S.SHINO
(CAGAYAN VALLEY MAPPING TEAM LEADER)

H.Exc. Juan Ponce Enrile, Minister of National Defence, Hon. Hideo Tanaka, The Ambassador of JAPAN, Distinguished Guests and My Colleagues from BCGS and My Team, it is my honor and pleasure to have a statement in this occasion for the Turn-Over of the Ortho-Photo Maps to the Government of the Philippines.

Since I have been involved in this project from the phase of contact and feasibility study mission in 1978 as a JICA Delegate, and as Team Leader for the Project Execution from 1979; allow me to give brief explanation on the Project.

This project has been excuting from 1979 as a part of Technical Cooperation by the Japanese Government, in responce to the request made by the Philippine Government, which fulfill the need of your government to accerelate National Mapping Program and development of the country.

The area, is ranging from Claveria as North-West and San Vicente as North East end and Cabarroguis as South end, and is covering Cagayan River Basin of Provinces of Cagayan, Isabera, Kalinga-Apayao, Quirino, Ifugao and part of Mountain Province, for Topographic Map of 1/25,000 and also project includes Ortho-Photo Maps of 1/10,000 for Ilagan, Tuguegarao, Gonzaga and Port Irene.

We are now in the end of 4th year stage and we will complete cartographic and reproduction work in the beginning of 1983. And final products, 1/25,000 five color print map of 72 sheets covering 11,500km² will be turned over to your government in March 1983.

Ortho-Photo Maps, which are now going to turnover to your Excellency by my Ambassador, are not aerial photo mosaic.

Ortho-Photo Map is orthogonally projected aerial photographs, which are eliminated all distortions of terrain relief due to the central projected image through aerial camera lens system, and as accurate as large scale line map but includes much more details and informations, and further includes elevation information i.e. contour line and spot height.

Therefore, this 1/10,000 Ortho-Photo Map can be used as Town Planning Map for urban and community development and also as Engineering Map for various infrastructure planning.

We will turn over to BCGS Original Ortho-Photo, which is now on display to the guests, and also some 20 extra copies for immediate use for various agencies concerned. Delivery items include, also, positive transparencies, ready for Off-Set Printing for publication by my Counter Part BCGS. I do hope the publication come out by BCGS very soon.

In this opportunity, I want to emphasize to the Guests that the Geodetic Controls, Topo-Map including Ortho-Photo and Hydrographic Chart are the BASIC SOCIAL CAPITAL and the Basic Tools for the development of the country and peoples. This is my philosophy.

Beside technical matters, we have completed all field works in Cagayan River Basin and have used 6 Land Cruisers, 1 Hard Top and 1 Truck as our legs. Allow me to announce that JICA will donate all vehicles to our counter part BCGS. All vehicles, which are now line-uped in front of this building, are kept very good condition by my staff mechanic.

Before conclude my adress, I want to add, with my proud, that my team members have work hard in the project area, with well-standing disciplines and keeping good public relations, friendship and courtesy to the peoples of the region. This could only be done with the good partnership between BCGS Counterpart directed by Commodore Ventura and also with the coordination between Northern Command, commanded by

B. Gen. Gattan and the 2nd Regional Command, commanded by
B. Gen. Custodio and they look after our safety.

Thank You and Salamat Po!

(at the Hall of Flags, MOND, Feb. 24th, 1982)

REMARKS TO BE DELIVERED BY AMBASSADOR
HIDEHO TANAKA ON THE TURN-OVER CEREMONY
OF ORTHO-PHOTO MAPS OF CAGAYAN VALLEY
ON WEDNESDAY, 24 FEBRUARY 1982 AT
CAMP AGUINALDO.

HIS EXCELLENCY JUAN PONCE ENRILE, MINISTER OF NATIONAL DEFENCE,
COMMODORE VENTURA OF THE BUREAU OF COAST & GEODETIC SURVEY,
STAFF OF THE MINISTRY OF NATIONAL DEFENCE, MEMBERS OF THE
JICA STUDY TEAM, LADIES AND GENTLEMEN:-

IT IS INDEED A GREAT PLEASURE AND HONOR FOR ME TO
PARTICIPATE IN THIS TURN-OVER CEREMONY OF THE ORTHO-PHOTO
MAPS OF THE CAGAYAN VALLEY.

CAGAYAN VALLEY TOPOGRAPHIC MAPPING PROJECT PREPARES THE
TOPOGRAPHIC MAPS WHICH IS THE MOST IMPORTANT BASIC INFORMATION
FOR AERIAL AND SOCIAL DEVELOPMENT PLANNING AS WELL AS THE
TRANSFER OF THE MAPPING TECHNOLOGY TO THE STAFF OF THE
PHILIPPINE GOVERNMENT WHO WORK ON THIS PROJECT.

CAGAYAN RIVER BASIN IS BLESSED WITH NATURAL RESOURCES
AND IS HIGHLY DETERMINED TO DEVELOP. THEREFORE, THE JAPANESE
GOVERNMENT HAS BEEN IN FULL COOPERATION WITH THE PHILIPPINE
GOVERNMENT IN IMPLEMENTING THE JICA-BASED CAGAYAN INTEGRATED

/ AGRICULTURAL

AGRICULTURAL DEVELOPMENT PROJECT, THE FEASIBILITY STUDY OF THE MATUNO RIVER DAM IRRIGATION AND GENERATION PROJECT, THE FEASIBILITY STUDY OF PORT IRENE AND THE OECF-BASED CAGAYAN VALLEY ELECTRIFICATION PROJECT. FURTHER, WE MAY RECALL THE PHILIPPINE-JAPAN FRIENDSHIP HIGHWAY PROJECT WHICH RUNS FROM CAGAYAN TO THE EXTREME SOUTHERN END OF THIS COUNTRY.

WE ARE QUITE SURE THAT THESE MAPS WHICH COVER 11,200 KM² OF THE CAGAYAN VALLEY AND SCALE OF 1/25,000 WILL BE COMPLETED IN MARCH OF NEXT YEAR AND WILL BE USEFUL TO THE FURTHER DEVELOPMENT OF THE REGION.

THE ORTHO-PHOTO MAPS WHICH COVER TUGUEGARAO, CASAMBLANGAN, GONZAGA AND ILAGAN IN THE CAGAYAN VALLEY ARE THE FRUITS OF THIS THREE-YEAR WORKS. THEY CAN PROVIDE MUCH INFORMATION NOT ONLY TOPOGRAPHICAL CHARACTERISTICS BUT ALSO LAND USE PATTERN.

MAY I HAVE THE HONOR NOW TO PRESENT THESE ORTHO-PHOTO MAPS AS WELL AS THE EIGHT (8) VEHICLES WHICH WERE USED BY THE STUDY TEAM FOR FIELD SURVEY.

FINALLY, I WOULD LIKE TO EXPRESS MY BEST HOPE FOR THE DEVELOPMENT AND SUCCESS OF THE CAGAYAN VALLEY.

THANK YOU.

BRIEF STATEMENT BY
HONORABLE JUAN PONCE ENRILE, MINISTER OF NATIONAL DEFENSE

ON THE OCCASION OF THE TURN-OVER OF ORTHO PHOTO MAPS
BY THE JAPANESE GOVERNMENT TO THE REPUBLIC OF THE PHILIPPINES

Mr. Ambassador, on behalf of the Republic of the Philippines, I should like to express our deep appreciation for the assistance which the Japanese Government has extended to our country. We fully recognize the untiring efforts and utmost cooperation in the production of large-scale topographic maps of a significant area in our country. The Cagayan River Valley has been identified by our top national economic bodies as among the most depressed areas of the region. It is our hope that these large-scale maps which will be the eventual products of this cooperative mapping program between the Japanese Government and the Republic of the Philippines will lead to agricultural and industrial progress in the area, and the integrated development in the region. On a more personal note, I should like to express, on my own behalf, my profound gratitude for your endeavor, since it is no secret that I personally come from that region. It is perhaps understandable that I harbor comforting thoughts, when in future years, looking over the green valleys and lush countrysides of the Cagayan Valley, that I have in a modest way contributed to the advancement and progress of the region.

It is with this thoughts in mind, Mr. Ambassador, that I am deeply honored to accept these ortho photo maps from the Japanese Government as the initial product of this cooperative mapping effort between your government and the Republic of the Philippines. I should like to reiterate, on behalf of the Republic of the Philippines, and on my own behalf, our profound gratitude for this gesture of cooperation that should contribute to understanding and goodwill between our two countries.

JUAN PONCE ENRILE
Minister of National Defense

