6 OFFICE WORK

6-1 Outline of work

As the office work, aerial triangulation, detail plotting, compilation were conducted. Amount of each work planned are as follows:

Aerial Triangulation: 400 models

Detail plotting : 6,500 km²

Compilation : 6,500 km²

9 sheets (net 8.3 sheets)

6-2 Aerial triangulation

a) Outline

Scale : about 1:50,000

Number of course : 34 courses

Number of control point: Horizontal - 11 points

Vertical - 51 points

For the Aerial Triangulation, block adjustment by the independent model method was conducted. Taking the plotting work schedule into consideration, whole area was divided into two blocks; one covered by photography in the first year work and the other covered by photography in the second year work, and the computation for both blocks were made separately.

b) Major Equipment

Point Transfer Device: KERN PMG-2

Observation Device : ZEISS/JENA Stecometer

Computer : UNIVAC VANGURD 1100

Fig. 4 Aerial Triangulation Index Map

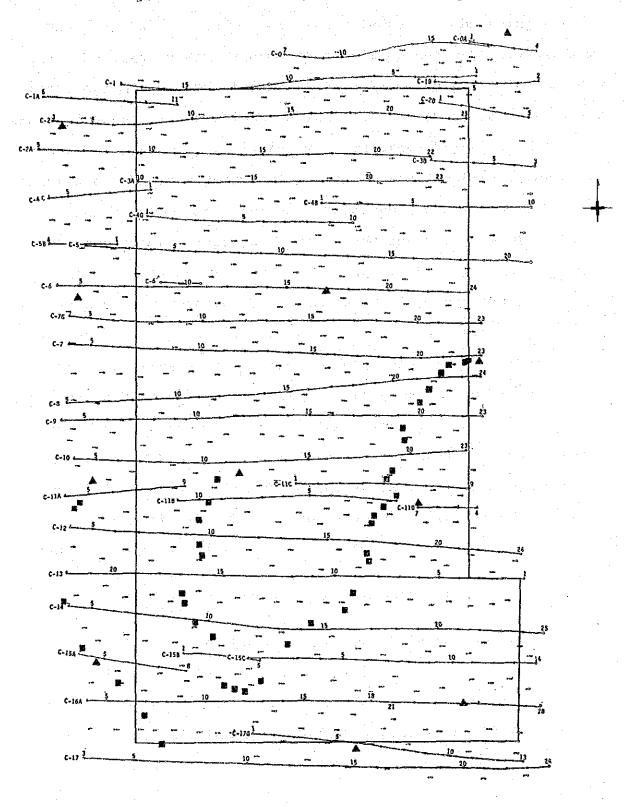


Photo Scale about 1:50,000

▲ NNSS Point

■ B.M. Point

- Tie Point

c) Point Selection and Transfer

Pass points and tie points were selected by observing the aerial photographs with stereoscopic vision and were transferred, pricked and marked onto the positive films with precision point transfer device. The points, being clear in three successive photographs with comparatively small relative heights, were selected as the pass point and marked on the positive films.

More than one tie point were selected and pricked at the place where the overlapping of upper and lower course of each model was clearly seen. Due to the fact that 60 percent of the project area was covered by mountaneous and forest zone, it took transfer long time for point selection and pricking.

For the transfer of control points, description of air photo signal, description of bench mark pricking point and 2-time enlarged photos of bench mark pricking were used, and the position of NNSS control points and bench marks were pricked on the positive films with stereoscopic vision. The reference number attached to the above computation of pass points, the points and control point were as follows:

```
012010

012020

012030 Pass point (photo number 12)

414080 Tie point (Point No. 8 in course 14)

106010 NNSS point (D-A601)

203010 Bench mark
```

"O" at the end stands for original point and "1" for eccentric point.

d) Measurement of Photo Coordinates

Measurement of the photo coordinates were made by measuring twice the pass points, tie points and the bench marks of each model together with the fiducial marks. The measurement was made by stereocomparator and the mean value of the two measurements, if discrepancy limited within 0.02 mm, was adopted.

e) Orientation

When the result of the computation of orientation having made use of the above photo coordinates exceeded the limit of the specifications of geodetic and photogrametric surveying for oversea (base map), those photo coordinates were remeasured. The ratio of such remeasurement of this time was about 20 percent.

f) Computation of Block djustment and Accuracy

At the geodetic coordinates computation, coordinate value computed based on the broadcasting ephemeris was used as the coordinates of NNSS control points. Adjustment computation were made by dividing the project area into two blocks by the independent model method and did the simultaneous adjustment computation on planimetry and height. The block I was composed of 19 courses, C-6 - C-17, covering 279 models and the adjustment computation was executed using 9 NNSS observation points, 51 bench marks and indirect leveling points. The Block II was composed of 15 courses, C-0 - C-5 covering 147 models. control points used were 2 NNSS observation points as well as 17 tie points on course C-6 in Block I. The adjustment computation was executed in such a manner as to connect the Block II with the Block I. The result of computation on each block are as follows:

			No.	of	Resi	dual of (ontrol P	oint		Tie P	oint	
Block	No. of	No. of	Control Point		(Horizontal)		(Vertical)		(Horizontal)		(Vertical)	
			Horizon- tal	Vertical	Mean Square Error	Maximum Value	Mean Square Error	Maximum Value	Mean Square Error	Maximum Value	Mean Square Error	Maximum Value
ı	19	279	9	51	2.01 m	3.59 m	0.85 m	~1.99 m	1.19 m		0.93 m	2.67 m
п .	15	147	* (19)	* (19)	3.0 m	8.48 m	2.85 m	7.87 m	1.40 m	3.00 m	0.90 m	2.77 m
	: :	1. 1		. N. H.							<u>,,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	

^{*} This includes 17 tie points of Block I.

6-3 Detail plotting

Detail plotting was executed making use of the photographs of the field identification by precision plotting instruments, WILD A-10, ZEISS PRANIMAT D2 and ZEISS/JENA Stereometrograph G. There was some part which was hard to interprete due to mist, however, by making use of a overlapped part of the side lap of upper and lower courses, this problem was solved.

Relative and absolute orientation the stereo model was executed according to the specifications of geodetic and photogrametric for oversea (basic map). Position error between the model point and the corresponding point on map sheet was in average within 0.1 mm on the sheet for the control points and the pass points. Height discrepancy was in average within 1 m, both of which were in a satisfactory range. Earth curvature correction value at the absolute orientation calculated based on the flight altitude was maximum within 1.5 m. Judging this value from the plotting scale of 1:50,000, it was small enough to be in allowance of the above specifications. At the detail plotting, all of the pathes and buildings, which had not been indicated on the field identification photograph but could be interpreted, were plotted.

The topographic feature of the project area was not like those with monotonous regular slope observed in Japan but was hilly all over the area. Special attention was paid to the critical topography such as salient, depression, etc. for omission of plotting. Elevation measurement was read twice and pricked on the separately prepared overlay and their

average value was adopted. The density of the spot height on the map was one point per 5 x 5 cm square except for the area where measurement was difficult because of thick vegetation. In order to avoid disunity, an unified instruction was given to each operator engaged to the plotting work regarding kind of plotting paper, orientation method, plotting limits of each model, map symbols and application rule of the symbol, practical method of detail plotting work, connection of each sheet, etc.

plotting of buildings and residential area were carefully made, because the size of buildings was generally small.

Basically all of the buildings were plotted with a red point and every house in the residential area were plotted. However, the expression was left to the process of compilation. The pathes were hidden under the forest and could not identify all of them by pocket stereoscope. An effort to express the extension or connection of the pathes was continued at the stereoscopic measurement by plotting instrument. For the other items, which could not be clearly surveyed by the field identification due to inaccessibility and were left for interpretation, it was tried at the stereoscopic measurement by plotting instrument to check them again.

The followings are the main instruments and the specifications used for detail plotting:

- a. Plotting Instrument: ZEISS/JENA Stereometrograph G
 WILD A-10
 ZEISS Planimat D2
- b. Plotting Paper : KIMOTO NSW #500 miler

Fig. 5 Sheet Number and Sheet Name of Topographic Map

		01 10 10 10 10 10 10 10 10 10 10 10 10 1	•	
		l° 15'	4.	
1714-62 MUARAMALUNGAI	1814-41 S. LUANG			
		1° 30'		* .
		1 30	2.3	
1714-34	1814-13			
S. MISSIM	MUARALANGUN		:	:
		1° 45'		
1714-32 S. TABALONG KIWA	1814-11 JARO			
				116°00'
	. :			2°0
1713-64 TANJUNG	1813-43 HALONG		1813-44 MANTE	
ar e e				
				2°1!

c. Projection : UTM (Zone 50)

d. Reference Ellipsoid: ID-1974 (GRS-67)

e. Coordinategraph : DAINI-SEIKOSHA D-SCAN

6-4 Compilation

The compilation was executed based on the National Base Map Symbols of Indonesia (scale 1:50,000) and the items of the agreement with Indonesia on the map symbol. The compilation sheet was specially prepared by a plotting device (coordinate-graph), which was different from the one used for the detail plotting. The compilation work is to select, according to a rule, the items plotted on the restitution manuscript and got by the field identification, and to arrange and plot such selected items by the map symbols. In order to execute the compilation of each topographic map, it is absolutely necessary to have clear standard for interpretation and application of the symbols. For that purpose, a meeting had been held with the Indonesian side to discuss about application of symbols prior to the field identification.

Before commencement of the compilation work, an instruction for the work had been prepared to keep the unity of the compilation. The instruction included symbols, application standard of the symbols, etc.

There were several problems at the execution of compilation. Those were selection of an independent building among buildings and structures, limits to be indicated as the residential area, direction of the building, handling of road classification and path path and items to be indicated as marginal information.

The independent buildings along the road were selected and marked, taking size of a symbol into consideration, to meet the actual landscape. The huts scattered in the rice field and farm were not selected except for comparatively big one, because if those huts were plotted as they were, it would look as if there were villages.

Originally, only Tanjung city and Murungpudak (PERTAMINA residential area) were indicated as the residential area, however, by the strong request of the Indonesian side, it was extended to the other area as indicated on the drawings made by the Indonesian side.

As already referred to in the Field Identification, there had been no reliable maps describing the road classification. Therefore, it was indicated again at field completion on the copy of the compilation manuscript based on the data made by Indonesian side. The pathes, which were covered by the thick forest and could not find their continuity at the plotting process, were tried to be completed again at the field completion. However, it was agreed with Indonesian side that incompleted pathes would not be expressed on the map.

Geographical names, which had been collected at the field identification and were plotted on the copy of the compilation manuscript, were used at the field completion for revision, supplementation, etc. It was decided to adjust the geographical names after such revision and supplementation were completed.

There was no reliable data available on the administrative boundary. In this regard, it was agreed that Indonesian side would prepare the administrative boundary data on the copy of the compilation manuscript at the field completion.

The marginal information includes items drafted at the compilation process and approved by Indonesian side, necessary data for expression, the data in Indonesian language, etc. The latter part of the above were agreed to be prepared by Indonesian side during the period of field completion.

7 IMPRESSION OF THE SECOND YEAR WORK

The following are the impression after execution of the second year work of the Topographic Mapping Project for Upper Stream Area of Negara River Basin.

- The aerial photography which had been planned for the first year work, but a part of it has been carried over to the second year work due to bad weather condition, was planned and prepared to be executed as soon as possible. However, as same as last year, weather condition was very bad, too. The project area was covered by the range of steep mountains with an elevation of more than 1,000 m. Due to such topographic features, cloud was formed very quickly and easily by raise of temperature and air movement. Blue sky was expected only early in the morning by around nine o'clock, that was at low sun altitude. it could be said that the area is not proper for aerial photography necessary for the mapping of mountaneous area. was no other way but to proceed the photography catching a fine interval. For that purpose, 1) collection of weather information on the project area from the other aircraft, 2) daily flight to the project area for collection of weather data, 3) trial to enter the photography course, etc., were repeated. The photography was executed repeatedly catching a short fine interval and completed within a planned period of time.
- 2. The scale of the aerial photographs taken for the project area was limited to 1:50,000 due to the climbing ability of the aircraft and this gave a certain merit and demerit to the following works. Bigger photograph scale resulted higher photo resolving

power and easy photo interpretation, which contributed to higher quality of the final results. On the other hand, number of models were increased and it took rather long time for orientation.

- 3. As stated above, due to delayed passing of the rainy season and continued bad weather, the pricking and the field identification work could not be executed as expected. The road condiditions at the northern district of Tanjung became worse to worst and the Japanese survey team and Indonesian counterparts had to cooperate each other to carry out the work in the planned period overcoming such bad road conditions.
- 4. Aerial triangulation was executed dividing the area into two blocks, for the work planned in the first year overlapped to the second year and it has been necessary to finish the work as soon as possible just after the completion of the field identification. As the result of computation of adjustment, it was found that the final results of both blocks were in the limit of residual at the ground control point. At the southern block, where the distribution of the control point was in good order, a good result was obtained by usual method. However, at the northern block, it was difficult to set the control point. Therefore, to keep horizontal and vertical accuracy, data of the southern block such as tie point were made use of.
- 5. Regarding the symbols, meetings were held with BAKOSURTANAL on the items such as unknown definition, imcompatibility of description of symbols and their samples, unknown rule of application, etc., and reached mutual agreement on the interpretation and application of the symbols.

- 6. Owing to the big photo scale, there was no problem of interpretation at the plotting of buildings, structures, main roads, vegetations, etc. However, the area was in the rainy tropical zone and there was thick vegetation cover. This caused difficulties in the photo interpretation of pathes, and rivers under the jungle, boundaries of old rubber plantations and the neighboring forest and waste land. It was agreed that those which could be accessible at the field completion would be confirmed at the site and those which could not be confirmed by foot would not be expressed.
- 7. Problems at the compilation were the expression of building and the road classification. As the expression of buildings, there are two ways, residential area which represents congested area of buildings and 'building' representing independent building.

Originally, residential area was intended to apply only to Tanjung City which formed a town and the other places where the buildings were built along the road, or village were expressed by the building symbol. As the result of the discussion on this matter with specialists of BAKOSURTANAL, they requested to express such buildings mentioned above as residential area. In compliance with such request, all of the place where Indonesian side instructed on a copy of a compilation manuscript were decided to be expressed as residential area.

The size of the symbol for buildings was rather big, and if all of the houses scattered were given separate symbol, the area would look like big villages. Same effects were expected

to the huts scattered in the farm. To avoid such complication, those buildings were selected considering the balance with the impression of villages along the road.

There was no reliable map covering the road classification and Japanese side requested again to the Indonesian side to provide such data. The confirmation and revision of road classification were made at the field completion.

- 8. Administrative names and geographical names, which were collected at the field identification, were plotted on the copy of compilation manuscript and they were reconfirmed at the field. Thus revision, supplementation, deletion of errors, etc. were made effectively.
- 9. Regarding the administrative boundaries, there were some documents confirming the boundary. However, sometimes the boundaries had not been confirmed, because they lay in the deep mountain and it was impossible to check them on foot, and sometimes because the person in charge of checking had no knowledge about the detail topographic maps. In conclusion, it was very difficult to confirm the boundaries on the maps. It was told that the Indonesian topographic map had in some cases no indication of administrative boundaries by the reason that they were not determined.

This time, however, complying with the strong desires of Directorate General of Water Resources Development (DPU) as well as the local authorities concerned, execution of the necessary survey and presentation of data by the Indonesian side were decided. The data is scheduled to reach at Jakarta Office of JICA by May 15, 1985. If the survey will still be on the way

at that time, the Indonesian side will provide the data from the boundary information of the existing geographical map with the scale of 1:250,000.

8 SUGGESTIONS TO THE 3rd YEAR WORK

The field completion work has been finished in the second year and the work left to the third year are the final process of work such as drawing (scribing) and printing. Unknown items on those work had been cleared at the meeting with BAKOSURTANAL held at the field completion work. Thus, there would be no problem to execute in performing the drawing (scribing) and printing according to the Specifications of the Topographic Map of Indonesia (1:50,000). However, the following technical points should be taken into consideration at the above work.

1. According to the Specifications of the Topographic Map of Indonesia (1:50,000), there are printed parts on upper and left side of the map with about 1 cm width and it is used for border match. The map is cut outside of such printing. It is necessary, therefore, to draw those parts twice and an attention should be paid at the drawing (scribing) so that those borders

2. According to the map specifications to be applied, the contour is colored by orange color and the symbol representing forests by green. Considering from the contrast of the colors, contour orange may be looked sank into forests green, that is, there may be difficulties to read the topographic features from such contrast of color. Therefore a certain measure should be taken for making more strong contrast of contour and forests. It may be also necessary to discuss about color tone with the Indonesian counterparts who will visit Japan.

will match exactly.

APPENDICES

	(Pag	e)
l. S	rvey Schedule A-1	
2. M	nutes of Meeting with the Indonesian Side A-l	0
(1)	Minutes of Meeting at the Field	
	Identification (August '84) A-1	0
(2)	Minutes of Meeting at the Field Completion	
	(February '85) A-2	2

1. SURVEY SCHEDULE

1. SURVEY SCHEDULE

(Aerial Photography · Pricking · Field Identification)

June 1	8	(Mon)	184	Mr. D. Nakajima (Supervisor of the aerial
:	٠			photography) left Japan and arrived Jakarta
. 1	L 9	(Tue)	٠,	Visited JICA Office and Ministry of Public

20 (Wed) Visited P.T. EXSA International Co., Ltd. and started negotiation for the contract of the aerial photography

Works (DPU)

- 22 (Fri) Signed the contract of the aerial photography with EXSA
- Nakajima moved from Jakarta to Banjarbaru via
 Banjarmasin
 (EXSA's aircraft also moved from Jakarta to
 Banjarmasin Siamusudin Noor Airport)
- 24 (Sun) Made technical discussion with EXSA team and test flight
- 25 (Mon) Visited Banjarmasin DPU Office

 (Henceforward, Nakajima had carried out the supervisory work on the aerial photography till August 18, '84 at Banjarbaru)
- - 10 (Tue) Visited JICA Office, DPU

- July 11 (Wed) '84 Started discussion on the 2nd year work at DPU
 - 12 (Thur) After visiting DPU, made technical discussion on the aerial photography at EXSA
 - 13 (Fri) Meeting at DPU with attendance of Ir. R.

 Sarbini, Director, Ir. Sidharta, Deputy

 Director of Directorate General of Water

 Resources Development (DGWRD), DPU, Prof.

 J. Rais, Chairman of BAKOSURTANAL, etc.

 (Joint Meeting with the Negara downstream team)
 - 14 (Sat) Preparation of survey data
 - 15 (Sun) Kimura, Murata, Togashi moved to Banjarmasin
 - 16 (Mon) Meeting at Banjarmasin DPU on the 2nd year work (joint meeting with the Negara downstream team)
 - 17 (Tue) Made technical discussion with EXSA team at Banjarbaru
 - 18 (Wed) Kimura, Murata returned to Jakarta (Togashi left for Tanjung via Barabai)

 4 members of the field party (H. Morita,

 T. Morita, A. Matsuo, K. Nishijima) left Japan and arrived Jakarta
 - 19 (Thur) Visited JICA Office and DPU
 - 20 (Fri) Meeting at BAKOSURTANAL (Cibinong) for technical details of map symbol and its application of Indonesia with Prof. J. Rais

July 21 (Sat) '84 Meeting at EXSA for the aerial photography and work schedule

Field party (H. Morita and other 3 members)
left for Banjarmasin

- 23 (Mon) Mr. Y. Egawa, JICA Supervisor (Director of
 Topographic Div., Topographic Dept., Geographical Survey Institute, Ministry of Construction)
 left Japan and arrived Jakarta
- 24 (Tue) Visited JICA Office and DPU
- 25 (Wed) Preparation of a draft Minutes of Meeting held at BAKOSURTANAL

(The field party left Banjarmasin for Tanjung)

- 26 (Thur) Preparation of the draft Minutes of Meeting held at BAKOSURTANAL
- 27 (Fri) Reporting at DPU on the results of discussions made at BAKOSURTANAL
 - Mr. S. Saito, team leader, left Japan and arrived Jakarta (The field party started the pricking work and finished it on August 4, '84)
- 28 (Sat) Visited JICA Office and DPU
- 30 (Mon) After technical talks on the aerial photography at EXSA, visited BAKOSURTANAL for discussion on the field identification including map symbol and its application with Prof. J.

 Rais (Mr. Bebas Purnawan, Toponame expert, was nominated for the counterpart of BANKOSURTANAL)

- July 31 (Tue) '84 Visited DPU and EXSA, and made preparation of survey data
- Aug. 1 (Wed) Egawa (JICA Supervisor), Saito, Kimura, Murata moved to Banjarmasin and had meeting at Banjarmasin DPU on survey schedule
 - 2 (Thur) Visited Barambai tide irrigation pilot farm via Marabahan through Barito River (Egawa left for Barabai to supervise the survey work of the Negara downstream project)
 - 3 (Fri) Saito, Kimura, Murata visited the base camp of the Negara downstream team at Barabai on the way to Tanjung
 - 4 (Sat) Data collection at Tanjung DPU Office and PERTAMINA Petroleum Corporation
 - Team's meeting after the field survey along the National Road from Tanjung to the boundary of East Kalimantan (The field party started the field identification work and finished it on August 20, '84.)
 - 6 (Mon) Egawa, Saito, Kimura, Murata returned to
 Banjarmasin from Tanjung and had meeting with
 Mr. Rusfai Nurdin (DPU counterpart) and
 Mr. Bebas Purnawan (BAKOSURTANAL counterpart)
 - 7 (Tue) Egawa, Saito, Kimura, Murata returned to Jakarta from Banjarmasin
 - 8 (Wed) Made technical discussion on the aerial photography at EXSA after reporting at JICA Office and DPU

- Aug. 9 (Thur) '84 Preparation of a draft Minutes of Meeting
 - 10 (Fri) After reporting at JICA Office, signed the
 Minutes of Meeting at DPU (by Ir. Sarbini,
 Director, DGWRD, DPU and Saito, team leader)
 - Egawa, JICA Supervisor, left Jakarta for Japan
 - 11 (Sat) Saito left Jakarta for Japan
 - 13 (Mon) Data collection at NTT (Nippon Telegraph &

 Telephone Public Corporation) Jakarta Office

 and DPU
 - 14 (Tue) Data collection at BAKOSURTANAL
 - 15 (Wed) Compilation of various survey data
 - 16 (Thur) Made technical talks on the aerial photography with EXSA team (A part of the results was checked)
 - 17 (Fri) Kimura, Murata moved to Banjarmasin from

 Jakarta and had meeting with EXSA team on the

 aerial photographic work (Most of the project

 area were reportedly photographed)
 - 18 (Sat) Murata moved to Tanjung
 - Completion of the aerial photography of the project area was reported by Nakajima (result not yet checked)
 - 19 (Sun) Nakajima moved to Banjarmasin from Banjarbaru
 - 20 (Mon) Preparation of data

- Aug. 21 (Tue) '84 Murata, Togashi, H. Morita, T. Morita, Matsuo and Nishijima completed the work in the Tanjung area and returned to Banjarmasin
 - After reporting the result of the field work,
 made discussion on the preliminary arrangements
 for the field completion to be conducted in
 January '85 at DPU (Henceforward, Murata and
 other 5 members had carried out office work
 and meetings at local authorities concerned
 till August 28 at Banjarmasin)
 Kimura and Nakajima moved to Jarkata from
 Banjarmasin
 - 23 (Thur) After reporting the survey result at JICA
 Office, made temporal inspection on the part
 of the aerial photographic results at EXSA
 - 24 (Fri) Reporting the survey results and made discussion on survey schedule at DPU
 - 25 (Sat) After inspection work at EXSA, visited JICA Office and DPU
 - 26 (Sun) Nakajima left Jakarta for Japan
 - 27 (Mon) Preparation of a draft interim report
 - 28 (Tue)
 - 29 (Wed) Murata and other 5 members returned to Jakarta from Banjarmasin

 (Henceforward, office work had been carried out

until the leave for Japan)

- Aug. 31 (Fri) '84 Reporting on the progress of the work at DPU
- Sep. 1 (Sat) Preparation of the draft interim report and data collection
 - 3 (Mon) Visited JICA Office and DPU for explanation of the interim report
 - 4 (Tue) Final meeting at EXSA and BAKOSURTANAL

 (H. Morita, T. Morita, Matsuo, Nishijia left

 Jakarta for Japan)
 - 5 (Wed) Presentation of the interim report at DPU and reporting at JICA Office
 - 6 (Thur) National Holiday (Hari Raja)
 - 7 (Fri) Kimura, Murata, Togashi left Jakarta for Japan

(Field Completion)

- Jan. 16 '85 (Wed) Field party (Togashi, H. Morita, T. Morita,

 Matsuo) left Japan and arrived Jakarta
 - 17 (Thur) Visited JICA Office and DPU
 - 18 (Fri) Meeting at JICA Office and DPU
 - 19 (Sat) Meeting at DPU and preparation of survey data
 - 20 (Sun) The field party moved to Banjarmasin from Jakarta
 - 21 (Mon) Meeting at Banjarmasin DPU
 - 22 (Tue) Meeting at Banjarmasin DPU and preparation of survey data

- Jan. 23 (Wed) '85 The field party moved to Tanjung from Banjar-masin
 - 24 (Thur) After visiting Governor and Police Station of Kabupaten Tabalong, started the field completion work.

[Henceforward, the field party continued the field completion work till Feb. 2, '85 in the project area of the South, East and Central Kalimantan Provinces]

- 30 (Wed) Togashi and other 3 menbers attended Joint

 Meeting held at the Government office of

 Kabupaten Tabalong (Tanjung)
- Feb. 1 (Fri) Saito, team leaker, and Kusaka left Japan and arrived Jakarta
 - 2 (Sat) Visited JICA Office and DPU
 - 3 (Sun) The field party moved to Tanjung from Banjar-masin
 - 4 (Mon) Saito, Kusaka had meeting at DPU and BAKOSURTANAL
 - 5 (Tue) Saito moved to Banjarmasin and attended to the Joint Meeting of Provincial Governments with the field party. (Kusaka continued meeting with DPU at Jakarta)
 - 6 (Wed) Meeting at Banjarmasin DPU in regard to data provided by the Indonesian side.

7 (Thur) 185 Saito and the field party returned to Jakarta Feb. from Banjarmasin (Messrs. Akiyama, Murakami, JICA Supervisor, arrived Jakarta) 8 (Fri) Visited JICA Office and Japanese Embassy Meeting at DPU 9 (Sat) (H. Morita, T. Morita and Matsuo left Jakarta for Japan) 11 (Mon) Meeting at DPU and BAKOSURTANAL 12 (Tue) Preparating of the minutes of meetings Signing of the minutes of meetings 13 (Wed) 14 (Thur) After reporting the survey results at JICA Office and the Japanese Embassy, Saito, Togashi and Kusaka left Jakarta

Returned Tokyo

15 (Fri)

2. MINUTES OF MEETING WITH THE INDONESIAN SIDE

2. MINUTES OF MEETING WITH THE INDONESIAN SIDE

(1) Minutes of Meeting at the Field Identification (August '84)

MINUTES OF MEETINGS ON THE TOPOGRAPHIC MAPPING PROJECT OF THE UPPER STREAM AREA OF THE NEGARA RIVER BASIN, SOUTH KALIMANTAN, INDONSIA

.1. Date and Place:

July	13, 1984	Meeting	Room,	DGWRD, DPU, Jakarta
July	16, 1984	Meeting	Room,	DPU, Banjarmasin
July	20, 1984	Meeting	Room,	BAKOSURTANAL, Cibinong
July	30, 1984	ti	и ,	n r

Attendants of Meetings are listed in Attachments 1-4.

- 2. The chairman, Mr. Sarbini Ronodibroto, delivered an introductory speech at the first meeting held at DGWRD, DPU on July 13 '84, and the Japanese team briefed the draft Plan of Operation for the 2nd year work of the topographic mapping project of the upper stream area of the Negara river basin, South Kalimantan (refer to Attachment 5), and which was discussed in a very smooth manner and confirmed by the both sides.
- 3. Concerning "SPESIFIKASI PETA RUPABUMI INDONESIA SKALA 1/50,000. BAKOSURTANAL", discussions were made at BAKOSURTANAL and confirmed as attached hereto.(refer to Attachment 6)

At the discussions, BAKOSURTANAL promised to nominate one (1) counterpart (topo name expert) to cooperate with the Japanese team in the field identification work.

4. Related to the 2nd year work of the upper stream mapping project, JICA informs one person counterpart would be allocated for training in Japan, 2 months (October - November '84).

Jakarta, August 10, 1984

- Manni-

Ir. Sarbini Ronodibroto
Director
Directorate of Planning
and Programming, DGWRD

Mr. Sho Saito
Team Leader of the Topographic mapping Project
Of the Upper Stream Area
of the Negara river basin
South Kalimantan

Sho Saita

Attendants of Meeting (July 13, 1984)

WVT ENGINEERING DIT WORTS HE

1. The Government of Indonesia

Mr. Sarbini Ronodibroto Director of Planning and Pro-

gramming, DGWRD

Mr. Sidharta Dit. of Planning and Pro-

gramming, DGWRD

Prof. Jacob Rais BAKOSURTANAL

Mr. Soetopo P4S, Jakarta

Mr. Suharto Dit. of Planning and Pro-

gramming, DGWRD

Br. Sudiyanto

Mr. Beddi

Mr. Harvanto

Mr. Kartono PUSDATA, Public Works

2. The Japanese Survey Team

Mr. H. Kimura Deputy Leader (Negara Upper Stream

Mr. M. Murata Chief Surveyor("

Mr. M. Togashi Surveyor (*

Dr. K. Muraoka Team Leader (Negara Downstream

Mr. T. Watanabe Surveyor ("

Attendants of Meeting (July 16, 1984)

1.	The Gov	ernment of In	donesia
	Tara Kara		
	Mr. Hal	ly Dezar	Chief of Public Works, South Kalimantar
	Mr. A.	Tamdjid	Water Resources Development Division,
	A Company	green a ser out of the	South Kalimantan
	Mr. Rac	hmat Norlias	P3SA, South Kalimantan
	Mr. Agu	s Susanto	
	Mr. Sud	iyanto	Dit. of Planning and Programming
	Mr. Suh	arto	
			entropy through a stage of the control of the contr
2.	The Jap	anese Survey	Team
		and the second	

Mr.	Н,	Kimura	Deputy Leade	er (Negara	Upper	Stre	(me
Mr.	M.	Murata	Chief Surve	vor(••		• > .
Mr.	Μ.	Togashi	Surveyor	. 🕻	17		·) .
			•				
Dr.	K.	Muraoka	Team Leader	(Negara D	ownstr	eam)	÷

Attendants of Meeting (July 20, 1984)

1. The Government of Indonesia

Prof. J. Rais BAKOSURTANAL

Mr. Bebas Purnawan "

Mr. Riadika Mastra "

Mr. Beddi Juwadi Dit. of Planning and Programming

2. The Japanese Survey Team

Mr. H. Kimura	Deputy Leader (Negara Upper Stream)
Mr. M. Murata	Chief Surveyor(")
Mr. M. Togashi	Surveyor (")
Dr. K. Muraoka	Team Leader (Negara Downstream)

Attendants of Neeting (July 30, 1984)

1. The Government of Indonesia

Prof. J. Rais BAKOSURTANAL
Mr. Bebas Purnawan
Mr. Riadika Mastra "

2. The Japanese Survey Team

Mr. S. Saito Team Leader (Negara Upper Stream)
Nr. H. Kimura Deputy Leader (")
Mr. M. Murata Chief Surveyor (")

Dr. Y. Egawa Advisor

PLAN OF OPERATION

Ahronio (1944) - Johann FOR processor of proper Agricus (1944) b

TOPOGRAPHIC MAPPING PROJECT OF THE UPSTREAM AREA

OF THE PARTY OF TH

THE NEGARA RIVER BASIN IN SOUTH KALIMANTAN

TN

THE REPUBLIC OF INDONESIA

-- 2nd Year --

July 1984

JAPAN INTERNATIONAL COOPERATION AGENCY

(contents omitted)

Minutes of Meeting at BAKOSURTANAL

As regards to the application of "SPESIFIKASI PETA RUPABUMI INDONESIA SKALA 1/50,000, BAKOSURTANAL" for the topographic mapping project of the upper stream area of the Negara river basin, the following matters were discussed and agreed by the both sides:

A. Referring to "SPESIFIKASI"

1. I.6. Datum (page 2)
Transformation parameter value from Doppler NWL-9D to
ID-1974 shall be as follows:

$$\Delta Y = + 14.757m$$

- 1.7 Selang Kontur (page 2)
 Contour intervals for Index Contour shall be 100 m.
- 3. 1.8. Standard Ketelitian Peta (page 2)
 Mapping accuracy standard shall be the Australian specifications to be provided by BAKOSURTANAL.
- 4. II.1. Umum (page 3) Adoption of additional map symbols, if any, shall be discussed between both parties after the field identification work completed.
- 5. II.2. Unsur-unsur yang perlu digambarkan (page 3)
 Classification of roads based on "UURI No. 13/1980/jalan"
 shall be provided by DPU.
- 6. IV.2.1. Penempatan simbol-simbol (page 4)

 AMS specifications shall basically be adopted for the direction and center of symbol marks: Center of symbol mark shall be its gravity center.

Example:



7. V.2. Screen dan Stipel (page 5) BAKOSURTANAL shall provide negatives of zip-a-tones, which are not available in Japan.

B. Referring to "SIMBOL PETA DEFINISI DAN KEGUNAANNYA" (Lampiran A)

- 1. 1.1. Bangunan (page 2)
 - (1) The application standard of temporary house shall be for a house in which somebody live at the time of field survey. Minimum size shall be 3m x 3m.
 - (2) When neighbouring houses are close to less than 0.2mm on map, the two houses shall be generalized.
- 1.3. Kantor Pemerintahan (page 2)
 Symbol "G" (Gubernuran) stands for administrative office of Province.
- 3. 1.4. Tempat beribadat (page 2)
 Islamic temple exists even in small village.
 The most important temple in one area shall be selected for expression in consultation with the Indonesian counterparts.

Description of some symbol marks shall be corrected as follows:

Hindu ----> Kong Fu Tse
Budha ----> Hindu, Budha

- 4. 1.5. Makam (page 2)

 Application standard of cemetry shall basically be minimum of 100m x 100m (2mm x 2mm on map) or its equivalent.
- 5. 1.6. Tempat bangunan bersejarah (page 2,
 Data related to historical monuments or buildings shall
 be provided by DPU.

- 6. 1.7. Menara (page 2)
 Data related oil towers shall be provided by DPU.
- 1.10. Pusat listrik (page 2)
 Data related to power stations shall be provided by DPU.
- 8. 1.12. Kawat listrik tegangan tinggi (page 5)
 Data related to high tension power transmission lines
 shall be provided by DPU.
 However, the transmission line in the densely populated
 area shall not be expressed.
- 9. 1.13. Kawat telepon, telegram (page 4)
 - (1) Data related to telephone and telegram lines shall be provided by DPU.
 - (2) The application standard shall be only for the lines between town and town and exclude those lying underground or in the densely populated area.
- 10. 1.14. Pipa bahan bakar (page 4)
 - (1) Data related to pipe lines shall be provided by DPU.
 - (2) The expression of pipe lines shall be made only for main routes. Small branch routes as well as the lines in the densely populated area, shall be excluded.
- 11. 2.1 2.6. Jalan (page 6)
 - (1) Roads shall be expressed according to the road classification to be provided by DPU.
 - (2) Any other road which can not be classified in the Items 2.1. 2.4. or 2.6, shall be classified in 2.5 Jalan lainnya.
- 12. 2.8. Tonggak kilometer (page 8)

 Both distances from Banjarmasin and Tanjung are marked on the kilometer post. Selection of its origin shall be made by DPU.

- 13. 3.6. Titik tinggi (page 12)

 Density of spot heights shall be basically one point

 per 5cm x 5cm on map, except jungle area where stereo
 plotting will be difficult.
- 14. 3.7. Tebing (page 12)
 Minimum application standard of cliff shall be more than
 3m in height and 100 m in length.
- 15. 3.9 Timbunan & 3.10. Galian (page 14)
 Minimum application standard of embankment or canal shall
 be more than 100m in length.
- 16. 4.3 Perkebunan (page 16)
 Minimum application standard of plantation shall be more than 250m x 250m (5mm x 5mm on map) with annotation of vegetation classified.
- 17. 4.6 Tegalan/ladang (page 18)
 Minimum application standard of field shall be more than
 150m x 150m (3mm x 3mm on map).
- 18. 5. BATAS ADMINISTRASI (page 18)
 Administrative boundaries shall be expressed according to data to be provided by DPU.
 - (1) Administrative boundary on single line shall not be expressed. Example:
 - (2) Administrative boundary on double lines shall be expressed in the center. Example:
 - (3) Where boundary crosses linear feature (road, pipe line, etc.), the boundary shall be cut off at the crossing. Example:

However, pipe line installed on overbridge shall be expressed as it is, with linear feature being cut off at the crossing. Example:

Road Pipe line

C. Referring to "BENTUK DAN UKURAN LEMBAR" (Lampiran E)

- 1. PETUNJUK PEMBACAAN KOORDINAT UTM
 Unit of UTM coordinates shall be expressed in 100m.
- 2. DIAGRAM ARAH UTARA
 Minimum unit of azimuth of magnetic north and true
 north shall be 5'.
- 3. DIAGRAM LOKASI
 UTM zone number shall be placed under bottom line of
 the neatline of DIAGRAM LOKASI.
- 4. JENIS HURUF

 Lettering styles indicated hereto,
 - (1) UNIVERS BOLD (UN65B)
 - (2) UNIVERS MEDIUM (UN55M)
 - (3) UNIVERS MEDIUM CONDESED (UN55MC)
 - (4) TIMES ROMAN ITALIC,

shall be replaced by the following styles which are available in Japan, respectively:

- (1) E102-24 (UNIVERS 65 DEMIBOLD)
- (2) E102-24 (UNIVERS 55 MEDIUM)
- (3) El00-22
- (4) E30-25 (TIMES NEWROMAN ITALIC)
- 5. Following temporary symbols shall be used for the field identification:

(BAKOSURTANAL 1:50,000 SYMBOL MARKS)

4.1	SAWAH	11
4.2	SAWAH TADAH HUJAN	Ц
4.3	PERKEBUNAN	Ŷ
4.4	HUTAN	O_
4.5	BELUKAR	Q_{0}
4.6	TEGALAN/LADANG	Lď

(2) Minutes of Meeting at the Field Completion (February '85)

MINUTES OF MEETING ON TOPOGRAPHIC MAPPING PROJECT OF

UPPER STREAM AREA OF NEGARA RIVER BASIN,

SOUTH KALIMANTAN, INDONESIA

I. Dates and Places of Meeting

- 1) February 9,1985: Directorate General of Water Resources Development
 Ministry of Public Works (Jakarta)
- 2) February 11,1985: ditto -

Attendants of meetings are as listed in Appendix-1 and 2.

II. Results of the Meetings

Preceding the meetings at DGWRD, DPU, three preliminary meetings had been held as follows:

- Meetings between local government officials and the Japanese Survey Team in Banjarmasin and Tanjung.
- Meeting between BAKOSURTANAL and the Japanese Survey Team in Cibinong.

The meetings in Tanjung and Banjarmasin were concerned about administrative boundaries and geographical names. The meeting in Cibinon was concerned about technical matters related to scribing and printing work.

The meetings at D.P.U. Jakarta were concerned about the reports of activities that had been conducted by the Japanese Survey Team and the Indonesian counterparts. Matters concerning administrative boundaries were also disucssed in the meetings at D.P.U. (Refer to Appendix-3,4,5 and 6)

Major items of discussions and their results are as follows.

II-1. Administrative Boundaries

Administrative boundaries have been remained undetermined by the time of the meeting. However, D.P.U. emphasized that administrative boundaries should be drawn on maps completely.

If the official information on administrative boundaries between East Kalimantan and South Kalimantan, and between Central Kalimantan and South Kalimantan, and on other boundaries are not sent to JICA Jakarta office by May 15,1985, the Japanese Survey Team is requested

draw the boundary lines based on the information on the boundary

lines which the Government of Indonesia will transfer from

1:250,000 scale existing topographic map which will be sent to

J.I.C.A. Jakarta office not later than May 15,1985. This information

will be drawn in 1:50,000 scale by the Government of Indonesia.

In this case the remark saying "Administrative boundary line between

and ______ ; and between ______ and _____ were drawn

by refering to the existing 1:250,000 scale topographic map." should be put.

II-2. Geographical Names

Geographical names to be printed on the maps are those listed on "Table for Confirmation of Geographical Names" authorized by D.P.U. and BAKOSURTANAL.

II-3. Scribing and Printing

"Instructions from BAKOSURTANAL Concerning the Scribing and Printing Work" (Appendix-7) will be regarded as the additional technical specifications required for this topographic mapping work.

II-4. Training of Indonesian Counterparts

Related to the scribing and printing work of the 3rd year work to be carried out in Japan in 1985, the following counterpart training allocation was explained by the Japanese side:

For scribing work: 2 persons for 1.0 month

For printing work: 1 person for 0.5 month

The Japanese side noted that the participants for printing work

needs to be a high ranking officer who has a power to authorize the results of printing work. Indonesian side said that D.P.U. would pay attention to the requirements of J.I.C.A.concerning the participants. Starting time of the training will be determined according to the progress of the scribing and printing work.

II-5. Number of Sets of Maps to be Printed.

In the Scope of Work for this mapping project the number of sets of the map to be printed is stipulated as 1,000 for each map sheet. The Indonesian side explained that not only offices of the central government but also various offices of local governments such as of province, county, district, and town and police offices use topographical maps. The Indonesian side said that 1,000 sets would not be sufficient to cope with existing and expected needs for the accurate topographic maps, therefore, if possible 2,000 sets of maps would be printed for each sheet. The Japanese side took note of this request.

II-6. Number of Colours of the Map

In the Plan of Operation attached to the Minutes of Meeting for this mapping project dated August 10,1984, the number of colours to be used for the printing of the 1:50,000 scale topographic maps is stipulated as five. Regardless of the above mentioned agreement, both sides agreed to change the number of colours from five to four (black, blue, green, and brown) in accordance with the Figure-1 "Schematic Diagram of Scribing and Printing" of the "Instructions from BAKOSURTANAL Concerning the Scribing and Printing Work".

II-7. Delivery of Data and Information to be Provided by The Indonesian Government

As for data and information which cannot be prepared by the Indonesian government for the Japanese Survey Team by their departure, and expected to be used for 1:50,000 scale topographic mapping, they shall be delivered to J.I.C.A. Jakarta office by May 15,1985 with appropriate authorization.

II-8. Delivery of Topographic Maps

Printed 1:50,000 scale topographic maps and other materials which should be delivered to the Indonesian government according to the Scope of Work, shall be sent to the following office and address:

Office: Directorate General of Water Resources Development,

Ministry of Public Works

- Attn: Director, Directorate of Planning and Programming

- Address: Jl.Pattimura No.20, Kebayoran Baru,

Jakarta-Selatan

For confirmation of the above,

Ir.Sarbini Ronodibroto

Director,
Directorate of Planning
and Programming, DGWRD

February 13,1985

Sho Saito

Leader of the Japanese

Sho Saita

Survey Team

Minoru Akiyama

Supervisor of

the Japanese Survey Team



REPUBLIK INDONESIA

DEPARTEMEN PEKERJAAN UMUM DIREKTORAT JENDERAL PENGAIRAN

DIREKTORAT BINA PROGRAM PENGAIRAN

JALAN PATTIMURA NO. 20/PERC. 7 TILP. 736616 (3 saluran) TEROMOL POS 39/KBT — KEBAYORAN BARU JAKARTA

Alemat Kawat : DITJEN AIR

DAFTAR HADIR

UPPER STREAM _- S. NECARA (KALSEL) <u>Undangan Rapat</u> Meeting Invitation Hari dan Tanggal

Day and date

Sabtu, 9 Pebruari 1985

Tempat Place

Ruang Sidang Dit. BPP

Pukul Time

10.00 - 12.00 HIB

Pimpinan Rapat Chairman

KA SUB DIT, Paws

ilo.	Nama Name	<u>Instansi</u> Office	Jubatan Occupation	Tanda Tangan Signature
1.	Ir. N. Sidharto	врр	Kasubdit.P2WS	
2	Ir. Suharto	BPP	Ka. Sie Survey	
3.°	Ir. Bebas Furnawan	BAKOSURTANAL	Staf Kartografi	
4.	3. Ali Syahbana	BPP	Staf Sie Survey	
5.	Noh. Husfai	BFP	Staf Sie Survey	
ó.	Hilman kosasih	u	Staf PWS II	
7.	Subandiyo	. 11	Staf Sub Dag, ADLN	
.8	B. Pramono	n	Ka. Sie FWS II	
9.	īr. Harianto W.	17	Staf Sie Survey	
10.	Tzutomu Kusaka		JICA, Survey Team	
11.	HIKIO PODASHI		स	
12.	HIROSHI LURAKAHI	JICA	Staf	
13	SHO CATTO	, u	Team Leader	
i t.	Minoru AKIYAHA	Ministry of Construction	Supervisor	



NEPUBLIK INDONESIA DEPARTEMEN PEKERJAAN UMUM DIHEKTORAT JENDERAL PENGAIRAN

DIREKTORAT BINA PROGRAM PENGAIRAN

JALAN PATTIMURA NO. 20/PERC. 7 TILP. 736016 13 JULIAN TEROMOL POS 39/KBT - KEBAYORAN BARU

List of Attendance

Meeting Date : Februari 11th, 1985

Place

: Dicertor Room

Subject : UPPER STREAM S. NEGARA (SOUTH KALIMANTAN)
Time : 01.00 / 02.00

No.	Name	Office	Occupation Signature
1.	Ir, Sarbini	ВРР	Director
2.	Ir. M. Sidharto	врр	Chief of P2WS
3.	Ir. Suharto	BPP	and the state of the second
4.	Mr. Sho Saito	JICA	Team Leader
5.	Mr. Hiroshi Murakami		Staff
6.	Mr. Mikio Tojoshi	સ	Survey Team
7.	Mr. Tzutomu Kuzaka	a ·	u
8.	Mr. Minoru Akiyama	en de n egociato de la sec A como como de la secocia	Supervisor

LAPORAN INSIL RAPAT PERTEMUAN DENGAN BAPAK BUPATI KEPALA DAERAH TINGKAT II TABALONG BESERTA INSTAN-SI YANG HERHUBUNGAN RRAT DALAM RANGKA PEMETAAN WI LAYAH SUNGAI NEGARA UPSTREAM PADA TANGGAL 30 JA -NUARI 1985 DI TANJUNG KALIMANTAN SELATAN.

- Rapat pertemuan dipimpin olah Bapak Bupati Kepala Daerah Tingkat II Tabalong yang diwakili olah Kepala Bagian Pemerintahan-Tingkat II Tabalong mengambil tempat di Kantor Bupati Kepala -Daerah Tingkat II Tabalong di Tanjung, masalah yang akan dibahas meliputi:
 - 1. Masalah taral batas Prop. Kal. Sel. dengan Prop. Kal. Teng. dan Prop. Kal. Tim.
 - 2. Masalah pengecekan kembali data-data untuk nama-nama ; a. Kampung, b. Sungai, c. Gunung dan lain-lain.
 - 3. Masalah yang dianggap perlu untuk manunjang pelaksanaan pemetaan tersebut.
- Penjelasan dari ketua rapat pertemuan oleh Kepala Bagian Pemerintahan Tingkat II Tabalong.
 - Bahwa pada tahun anggaran 1983/1984, tim Tingkat II Tabalong telah mengadakan pengukuran pada wilayah-wilayah Kambitan, Muara hutan komap, Muara hutan kumang sepanjang 50 Km.
 - Untuk wilayah gunung kosari akan dilaksanakan tahun anggaran 1985/1986 yang akan datang.

- Penjelasan dari ketua counterpart.

- Bahwa pada tahun anggaran 1983/1984 telah diadakan pengukuran oleh team JICA (Japan International Cooperation Agency) dalam rangka bantuan Pemerintah Jepang kepada Pemerintah Indonesia untuk pembuatan peta topografi skala 1:50.000, pada wilayah sungai Negara (upstream dan downstream).
- Pada tahun anggaran 1984/1985 sebagai lanjutan pekerjaan ter sebut telah diadakan pemetaan udara, yang mana hasil sementa ra terdapat masalah tapal batas antara Kal.Sel, Kal.Teng dan Kal.Tim.serta masalah penyempurnaan data-data sungai, Gunung dan Kampung.
- Direncanekan pada tahun enggaran 1985/1986 untuk pelaksanaan tersebut akan berakhir pada bulan Mei 1986 yang akan datang, dimana menghasilkan peta topografi skala 1 : 50.000.

Masalah.												
mercherren •		٠	٠	٠	٠		٠	٠	٠	٠	٠	

- Masalah yang dihadapi :

- Timbulnya perbedaan menentukan masalah batas wilayah de ngan Prpinsi yang bersebelahan (antara Propinsi Kal. Sel. Kal. Teng dan Kal. Tim.).
- Adanya perbedaan nama tempat, nama sungai dan nama gunung misalnya: gunung lahung dan gunung lasung, gunung besar-dan gunung batu besar dan istilah desa dan kampung.

- Heail ramt.

- Sebagai input untuk pembahasan selanjutnya, antar Guber nur (Prop. Kal.Sel. Prop. Kal.Teng. dan Prop.Kal.Tim.).
- Rencana rapat antar Gubernur (Gub.Kal.Sel. Gub.Kal.Teng) direncanakan pada tenggal 5 Februari 1985 bertempat di Kantor Gubernur Kepala Daerah Tingkat I Propinsi Kaliman-tan Selatan di Banjarmasin.
- Untuk Gubernur Kepala Daerah Tingkat I Propinsi Kaliman tan Timur direncanakan pada tanggal 7 Februari 1985, berhubung beliau beserta staf menghadiri rapat di Jakarta mulai tanggal 4 Februari 1985 sampai dengan tanggal 6 Februari 1985.

Demikien laporan ini dibuat untuk dapat diketehui sebagaimana mestinya.-

Tembusan kepada Yth:

- Kakanwil Dept.P.U. Prop. Dati I Kal-Sel di Banjarmasin.
- 2. Kepala Bagian Pengairan DPUP. Dati I Kalimantan Selatan di Banjarmasin.

Banjarmasin, 31 Januari 1985.

PEMBUAT LAPORAN.

Pemimpin Proyek Perencanaan Pengembangan Sumber Sumber-Air Kalimantan Selatan. Yang mewakili,

.. Drs. -f. EKO HARYANTO .=

DAFTAR HADIR PERTEMUAN ANTARA TEAM JEPANG (JICA)
DENGAN BUPATI SERTA INSTANSI YANG BERHUBUNGAN ERAT
DALAMRANGKA PEMETAAN WILAYAH SUNGAI NEGARA UPSTREAM
KALIMANTAN SELATAN...

WAKTU

RABU , 30 JANUARI 1985.

TEMPAT

KANTOR BUPATI TABALONG DI TANJUNG.

PIHAK JEPANG (JICA)

1. Mr. M. TOGASHI

2. Mr. H. MORITA

3. Mr. T. MORITA

4. Mr. T. MATSUO

PIHAK INDONESIA

1. Drs. DJAYA FITRIANI

2. Drs. ARDIANSYAH

3. Drs.I S M. E T

4. M. SYAMSI FADILAH

5. M. Yussie BE

6. Gt.M.Jumberi

7. Yuhanie.D.

8. H. Djohansyah

9. Irawan.S.

10..Rifani

ll. M. NAWAWI BA.

12. Yusran Kaderi

13. Satar.A.

14. HARIAMAN HARIAN

16. Drs. Heru Agus Utomo

16. MASKUNI BA

17. DARWIN AWI BA

18. Brs. T. Eko Haryanto

19. Zulkarnain BsC

20. FX Agus Susanto

21. Suwoto

22. Nana Nasuha BE

23. Pidy Sukardi

JABATAN:

Surveyor JICA

Surveyor JICA

Surveyor JICA

Surveyor JICA

Kabag.Pemerintahan

Kabag.Sos.Bol.

BAPPEDA TABALONG.

Ka.Cab.DPU Tabalong

Ka. Sie Air DPU Tabalong.

Dians PU Kabupaten.

Bag. Pembangunan

Dinas Kehutanan

Dinas Aggaria

Staf Pemerintahan.

Camat Tanta

Camat Tanjung

Kep. Kantor Camat Haruai

Camat Muara Uya

Camat Murung Pudak

Camat Banua Lawas

Camat Kelua

DPU Kalimantan Selatan

DPU Kalimantan Selatan

Counterpart

Counterpart

Counterpart

Counterpart

HASIL LIPUTAN RAPAT PERTEMUAN ANTAR PEJABAT PEMERINTAH PROPINSI KALIMAN TAN SELATAN DAN PROPINSI KAL- TENG.

Hari : Selasa

Tenggal : 5 Pebruari 1985

Jam : 10.00 WITA

Tempat : Kentor Gubernur Kepala Daerah

Tingkat I Kal. Sel. di Banjarmasin.

- Rapat dipimpin oleh Bapak Asisten I Pemerintahan, Sekwilda Tingkat I Kalimantan Selatan, mewakili Bapak Gubernur Kepala Daerah Tingkat I Kalimantan Selatan.
 - Rapat dibuka dengan memperkenalkan para anggota rapat, untuk pejabat Pemerintah Propinsi Kalimantan Tengah.
 - Bapak Kepala Biro Bina Pemerintahan, Setwilda Tingkat-I Kalimantan Tengah mewakili Bapak Gubernur Kepala Daerah Tingkat I Kalimantan Tengah.
 - Bapak Kapala Direktorat Agraria Propinsi Kalimantan Tengah.
- Anggota rapat dari pejabat Pemerintah Propinsi Kalimantan Selatan :
 - Bapak Kepala Bidang Fisik Bappeda Tingkat I Kaliman tan Selatan.
 - Bapak Bupati KDH Tkt. II Tabalong, Tanjung.
 - Bapak Bupati KDH Tkt. II Hulu Sungai Utara, Amuntai.
 - Bapak Bupati KDH Tkt. II Hulu Sungai Tengah, Barabai.
 - Bapak Kepala Direktorat Agraria Propinsi Tingkat I Kalimantan Selatan.
 - Bapak Kepala Bagian Pengairan DPUP. Dati I Kal. Selatan.

Babak Asisten I Pemerintahan Sekwilda Tingkat I Kal. Selatan.

- Pihak Propinsi Kalimantan Timur mengusulkan rapat pertemuan dapat diselenggarakan pada tanggal 7 Maret 1985 di Jakarfa, sehubungan dengan rapat Gubernur seluruh Indonesia.
- Tujuan dari pada pemetaan ini adalah pembuatan peta Topografi skala 1: 50.000, yang direncanakan akan di cetak seba nyak 1.000 lembar.
- <u>Sambutan dari Bapak Kepala Bagian Pengairan DPUP.Dati I Kal.</u>
 <u>Selatan</u>.
 - Memperkenalkan anggota Team Survey Topografi JICA Jepeng dan Staf DPUP. Dati I Kalimantan Selatan.

- Sejak tahun 1972 untuk daerah Amuntai sudah dilaksanakan pemetaan, sedangkan untuk daerah Tabalong belum dilaksanakan.
 - Untuk pelaksanaan pemetaan daerah Tabalong baru dimulai tahun 1983 yang menurut rencana akan dilaksanakan dalam 3 tahun anggaran 1983/1984 s/d 1985/1986.
- Tujuan dari pada pemetaan ini untuk pembuatan peta Topografi skala 1 : 50.000, pada daerah upstream Tabalong.
- Hasilnya untuk menunjang rencana Master plan Negara Ri ver Basin secara Makro.
- Untuk menunjang pelaksanaan pemetaan tersebut, Pemerin tah Jepang telah memberikan Grant Aid kepada Pemerintah-Indonesia guna pelaksanaan pemetaan ini selama 3 tahun anggaran dimulai sejak:
 - 1. Tahun Anggaran 1983/1984 Pelaksanaan photo udara.
 - 2. Tahun Anggaran 1984/1985
 - Pelaksanaan titik-titik ketinggian (ground control) pada bulan Juli s/d Agustus 1984.
 - 3. Tahun Anggaran 1985/1986
 - Pelaksanaan pengumpulan data untuk name-name sungai, gunung, Kecamatan, desa, serta data tapal batas antara Kal. Sel. den Kal. Tengah serta Kal. Timur.
 - Guna lebih memantapkan pelaksanaan tersebut diatas Team Jepang bersama staf DPUP Dati I Kalimantan Selatan Bagi an Pengairan, mengadakan rapat pertemuan dengan pemerin tah Tingkat II Tabalong pada tanggal 30 Januari 1985, membicarakan masalah batas Kal. Selatan, Kal. Tengah dan Kal. Timur, serta pengecekan kembali nama-nama sungai gunung, kecamatan, desa dll.
 - Rencana Team akan kembali ke Jakarta pada tanggal 7 Februari 1985 dan selanjutnya tanggal 15 Februari 1985 kembali ke Jepang.
 - Untuk hal-hal tersebut diatas Bapak Kepala Bagian Penga iran mengharapkan out put dari pada pertemuan hari inimenghasilkan suatu kesepakatan untuk penentuan tapal ba tas antera Kal. Sel. dan Kal. Tengah, khususnya yang berbatasan dengan daerah Tanah Grogot dan daerah Barito Se latan (Ampah, Tamiyang layang).

Sambutan dari Barak Bupati KDH Tkt. II Tabalong.

- Pertemuan dilaksanakan 2 (dua) kali yaitu pada tanggal 26Januari 1985 antara Team Jepang dengan Pemerintah Da erah Tingkat II Tabalong.
 - Yang mana pihak Team Jepang telah menyerahkan Draii ka sar dan data-data sungai, kampung dil. yang disebarkan keseluruh Kecamatan untuk pengecekan kembali atas data data tersebut di atas.
- Pertemuan kedua pada tanggal 30 Januari 1985 yang mana hasil dari pertemuan telah menghasilkan data-data yang pasti untuk nama-nama sungai, gunung, kecamatan, desasedangkan untuk tapal Batas Kal. Selatan, Kal. Tengah serta Kal. Timur belum dapat dipastikan, karena belum-ada titik batas yang tepat.
- Oleh karena itu, Bapak Bupati meminta kepada pihak Pemerintah Propinsi Tingkat I Kal. Tengah dapat menentu kan tapal batas secara administrative.

Penjelasan dari Bapak Kepala Biro Pemerintahan Tkt. I Kal. Tengah.

oleh karena telah adanya kesepakatan bersama antara Gu bernur KDH Tkt.I Kalimantan Selatn dan Gubernur Kali mantan Tengah yang telah disyahkan oleh Menteri Dalam-Negari maka sebaiknya untuk data tapal batas tersebutbisa diambil dari data yang telah disepakati bersama.

Penjelasan dari Team Jepang.

- Bahwa pekerjaan tahap ke 3 (tiga) tahun anggaran 1984/
 - photo udara
 - ground control
 - field complition

Sebagai hambatan yang belum terpecahkan adalah maselah Tapal batas Kal. Sel. dan Kal. Tengah serta Kal. Timur.

Pertanyaan dari Banak Manihuruk Kalimantan Tengah.

- Pemetaan apa yang sedang dilaksanakan oleh Team Jepang sekarang ini?
- Apa tujuan pemetaan ini?
- Karena kalaumasalah tapal batas sudah disepakati antara Gubernur KDH Tingkat I Kal. Selatan dan Gubernur KDH Tkt. I Kal. Tengah dan telah disyahkan oleh Bapak Menteri Dalam Negeri.

Jawaban dari Kepala Bagian Pengairan DPUP. Dati I Kal. Sel.

- Tujuannya dalah untuk mengenal daerah Couliri.
- Untuk perencanaan Master Plan Negara River Basin
- Untuk pembuatan peta topografi skala 1:50.000 yang nantinya untuk keperluan instansi-instansi lainnya yang menggunakan, agar lebih tepat dan mantinya tidak membingungkan.

Kepala Direkborat Agraria Tingkat I Kalimantan Tengah.

- Telah diadakan pematokan sepanjang 400 Km, yang belum tinggal 200 Km lagi.
- Untuk masalah tapal batas tidak ada permasalahan lagi -karena sudah ada. Kesepakatan kedua belah pihak antara-Gubernur KDH Tingkat I Kalimantan Selatan dan Gubernur KDH Tingkat I Kalimantan Tengah yang telah disetujui oleh Menteri Dalam Negeri pada tanggal 16 Maret 1982.
- Jadi tidak perlu lagi adanya penandatanganan.
- Apa sasaran Team Jepang dalam pembuatan pata Topografiskala 1: 50.000.

Jawaban Bapak Bupati KDH Tingkat II Tabalong.

- Karena belum ada data yang pasti, maka Team Jepang membuat tapal batas yang ideal mengenai tata air dan sungai.

Jawaban ceri Bapak Asisten I Sekwilda Tingkat I Kal. Selatan

- Untuk data tapal batas sudah ada datanya dipemerintah Daerah Tingkat I Kalimantan Selatan.

Penjelasan dari Agraria Tingkat I Kalimantan Selatan.

- File compretion harus ada indentification yang telah di sepakati.
- Untuk membantu pembuatan tapal batas sudah ada 4 titik As tronomi.
- Peta Design yangb telah disetujui oleh Menteri Dalam Ne geri bisa sebagai landasan penentuan tapal batas Kal.Sel. dan Kal.Tengah.

Penjelasan Asisten I Sekwilda Tingkat I Kalimantan Selatan.

- Untuk penentuan tapal batas Propinsi Kalimantan Solatan - dan Propinsi Kalimantan Tengah, tidak merobah kesepakatan yang telah dibuat antar Gubernur Kepala Daerah Tingkat I-Kalimantan Selatan dengan Gubernur Kepala Daerah Tingkat-I Kalimantan Tengah yang telah disyahkan oleh Menteri Dalam Negeri.

Kesimpulan pertemuan Acara pada hari ini.

- Untuk mengambil data batas wilayah Kalimantan Selatan dan Kalimantan Tengah dengan menggunakan data yang telah dise pakati bersama antara Gubernur Kepala Daerah Tingkat I Ka limantan Selatan dengan Gubernur Kepala Daerah Ringkat I-Kalimantan Tengah yang telah disyahkan oleh Bapak Menteri Dalam Negeri tanggal 16 Maret 1982.
- Untuk penentuan tapal batas dapat menggunakan peta Design yang telah ada.
- Untuk patokan pengambilan tapal batas menggunakan 4 titik Astronomi yang sudah ada.
- Hasil dari pada pertemuan untuk penetapan tapal batas Kalimantan Selatan dan Kalimantan Tengah yang telah disepakati bersama, telah dibuatkan Berita Acara kesepakatan untuk hal tersebut di atas, antara Kepala Biro Bina Pemerintahan Setwilda Tingkat I Kalimantan Tengah dengan Asisten I Sek wilda Tingkat I Kalimantan Selatan pada hari Selasa tanggal 5 Pebruari 1985.

Demikian catatan hasil monitoring Rapat pertemuen antar Pejabat pemerintah Tingkat I Kalimantan Selatan dengan Pejabat - Tingkat I Kalimantan Tengah.

Banjarmasin, 5 Pebruari, 1985.

Fuller

ZULKARNAIN: B.Sc.

DAFTAR HADIR PERCENUAH AHRADA GUILDUR 1.500. TITUR 1.500. TITUR 1.500. TITUR 1.500. TITUR 1.500. TITUR KALIMAHRAN TENGAH DAN GUBERNUR KOH TINGKAT I KALIMAHRAN TINUR DAIAM RANGKA PEMETAAN WILAYAH SUNGAI NEGARA UP STREAM.

WAKTU

: 5 FEBRUARI 1985.

TEMPAT

: KANTOR GUBERHUR KDH TIHGKAT I KALIMANTAN SELATAN.

PIHAK JEPANG (JICA)

1. Mr. Sho SAITO

2. Mr. Mikio TOGASHI

3. Mr. Takuji MORITA

4. Mr. Hiroo MORITA

5. Mr. Tokuhe MATSUO

6. Nr. Keiji MIYA

PIHAK INDONESIA

1. Drs. Syahriel Darham

2. F. Pakeri BA

3. Landung. S.

4. Ardansyah Fana

5. Eddy Rosasi

6. Ir. A. Tandjid

7. Nasir Nasution

8. Bramantio

9. M.Muelyono

10. Drs.T. Eko Haryanto

ll. Zulkarnain B.Sc

12. Nana Nasuha BE

13. FX Agus Susanto

14. Suwoto

15. Didy Sukardi

16. Drs. Donnis. N. Singaraca

17. R.M. Manurung

18. Aprullah

19. Gt.Zulfikar

JAENTAN :

Team Leader JICA

Surveyor JICA

Surveyor JICA

Surveyor JICA

Surveyor JICA

Expert DPU

Asisten I Bidang Pem rintahan

BAPBEDA Tingkat I Kal. Sel.

Burati Tk. II Tatalong

Bupati Tk.II H.S.V.

Bupati Tk.II H.S.T.

Kabag. Air DPU Kal.Sel.

Agraria Kal. Sel.

Agraria Kal.Sel.

Agraria Kal.Sel.

DPU Kal.Sel.

DPU Kal.Sel.

Counterpart JICA

Counterpart JICA

Counterpart JICA

Counterpart JICA

Karo. Bina Pem. Kal. Teng.

Agraria Kal. Teng.

Agraria Kal. Teng.

Biro Pemenintahan Umum.

Appendix - 5

SURAT KETERANGAN

Yang bertanda tangan dibawah ini

Nama

: Ir. A. TAMDJID

Jabatan

: Kepala Bagian Pengairan Dinas Pekerjaan Umum Propinsi Dati I Kalimantan Selatan.

Alamat

: Jalan D.I. Panjaitan No. 14 Banjarmasin.

Dengan ini menerangkan bahwa, untuk permasalahan batas wi - layah Propinsi Kalimantan Selatan dan Kalimantan Tengah, serta an - tara Propinsi Kalimantan Selatan dan Kalimantan Timur pada saat ini dalam tahap penyelesaian.

Dengan demikian belum dapat diplot dalam peta hasil mapping dari - Team Survey Jepang.

Diusahakan pada akhir April 1985 kalau sudah selesai akan dikirimkan ke Jepang (Tokyo).

Demikian Surat Keterangan ini kami buat, agar dapat dipergu nakan seperlunya.-

DINAS

Banjarmasin, 6 Pebruari 1985.

XIP-540003692

A-37

SURAT KETERANGAN

Yang bertanda tangan dibawah ini.

8 Ir. A. TAMDJID

batan

: Kepala Bagian Pengairan Dinas Pekerjaan Umum Propinsi Dati I Kalimantan Selatan.

Alamat

: Jalan D.I. Panjaitan No. 14 Banjarmasin.

Dengan ini menerangkan bahwa, untuk pelaksanaan pengumpulan data-data mengenai nama-nama Kabupaten, Kecamatan, Desa, nama sungai dll. telah di check bersama Bapak Bupati KDH II Kabupaten -Tabalong beserta Camat, Counterpart dan Team Survey Jepang. Berkas hasil pengecekan terlampir

Demikian Surat Keterangan ini kami buat, agar dapat diper gunakan seperlunya.-

> DINAS PEKERJAAH UMUM

Banjarmasin, 6 Pebruari 1985. PROPINSION

KEPALA BAGIAN PENGAIRAN,

INSTRUCTIONS FROM BAKOSURTANAL CONCERNING THE SCRIBING AND PRINTING WORK

(Topographic Mapping Project of Upper Stream Area of Negara River Basin, South Kalimantan, Indonesia)

February 13,1985

Mr. Sho Saito Leader of the Japanese Survey Team for the Topographic Mapping Project of the Upper Stream Area of the Negara River Basin, South Kalimantan, Indonesia

Dear Mr. Saito,

Considering the scribing and printing work of the Topographic Mapping Project of the Upper Stream Area of the Negara River Basin, South Kalimantan, Indonesia, BAKOSURTANAL agrees that:

- 1) "Instructions from BAKOSURTANAL Concerning the Scribing and Printing Work" shall be regarded as the additional technical specifications for the mapping project;
- 2) All the names which should be shown on the topographic maps to be produced shall be as shown in "Table for Confirmation of Geographical Names".

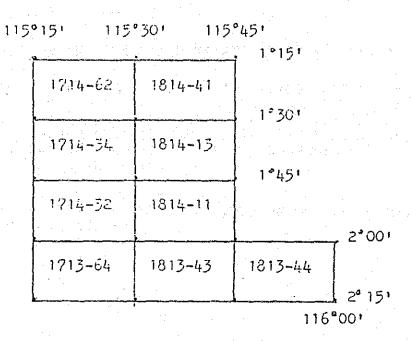
VW.

urs faithfully,

Prof.Ir.Jacub Rais

Chairman of National Coordination Agency for Surveys and Mapping INSPROCTIONS FROM BAKCSURTANAL CONCERNING THE SCRIBING AND PRINTING WORK

1. Sheet numbers shall be as shown below:



2. Sheet names shall be as follows:

Sheet Number	Snest Name
1714-62 1714-34 1714-32 1713-64 1814-41 1814-13	MUARAMALUNGAT S.MISSIM S.TABALONG KIWA TANJUNG S.LUANG MUARALANGUN JARO
1813-43 1813-44	HALONG MANTE

3. Edition number at the upper right corner of the margin shall be I(one) except for sheets 1713-64 and 1813-43 which should be Edisi-II. Year of publication to be printed after the edition number is "1985".

- 4. U.T.M. zone number to be printed at the lower part of DIAGRAM LOKASI shall be in black. Type of lettering of the zone number shall be UN55MC and its size shall be 6.8pt.
- 5. Address and mark of BAKCSURTANAL shall be the same as those of the sample map. Original sheet of the mark shall be provided by the Indonesian government for printing in Japan.
- 6. Map history (KETERANGAN RIWAYAT) shall be printed as follows:

PETA INI DIGAMBAR DENGAN CARA FOTOGRAMETRI 1983-1984 DARI FOTO UDARA SKALA 1:50.000 DALAM RANGKA PEMETAAN DASAR NASIONAL, BADAN KOORDINASI SURVEY DAN PEMETAAN DASAR NASIONAL (BAKOSURTANAL) DALAM RANGKA PERJANJIAN KERJASAMA PEMERINTAH REPUBLIK INDONESIA DAN PEMERINTAH JEPANG(JICA).

7. Following JICA mark shall be printed on the appropriate part of the maps:



8. Points to be used as sample points are as follows:

Sheet Number	Point Name	U.T.M. KM
1714-62 1714-34 1714-32 1713-64 1814-41 1814-13 1814-11 1813-43 1813-44	Jembatan Persimpangan Jalan Titik Doppler D-A606 Titik Tinggi Geodesi T.T.G.II .993 Puncak G.Lumut Titik Doppler D-A607 Titik Doppler D-A603 Titik Doppler D-A600 .226 dekat Mante	311.09843.9 323.99826.7 322.29796.7 II 5321.69765.0 336.49852.6 337.09827.9 352.59791.1 360.29756.8 369.49760.8

9. Proper expression of U.T.M. coordinates is:

mOOO = U = OOOm

10. Aboreviations (SINCKATAN) to be shown in the marginal information shall be the one stated in SPESIFIKASI PETA FULLABURE INDOMESIA EXALA 1:50.000, Lampiran A.1.3 and C. The nymbol "K" which stands for Kotamadya is added to the bompiran A.1.3.

- 11. The UG line should be drawn parallel to left sheet line (which is parallel to longitude line). The unit value of angles between UG and UM, and between UG and US should be 5 minutes.
- 12. Lettering styles of symbols (No. 7.1 to No. 7.5) shall be as follows:

No.	Lettering of "SHAKEN"
7.1	E30-25 E30-25
7.2 7.3	E30-24
7.4 7.5	E102-24 E102-24

- 13. Data of magnetic declination shall be provided by the Indonesian government. The data shall be the results of the latest calculation. In the case such latest data are not available, BAKOSURTANAL will use "DEKLINASI MAGNIT EPOCH 1980 s/d 1985" of The Defense Mapping Agency Hydrographic Center to obtain the declination information.
- 14. The placement of control point values should follow the A.M.S. specifications.
- 15. The placement of symbol marks (1.3 to 1.10 of Lampiran A) should follow the following steps:
 - a) symbol marks should be placed in map north orientation;
 - b) symbol size should follow Lampiran A of the Map Specification;
 - c) in order to get the clarity, symbol mark location on maps may be shifted.
- 16. Values of U.T.M. coordinates to be printed at each marginal corner shall be rounded by counting fractions of 0.5 meter and over as a unit and cutting away the rest.
- 17. Printing paper shall be the same as the sample.

 (Results of physical and chemical tests of the sample paper are attached as Appendix-A.)

- 18. Flow chart of colour separation for scribing and printing is as shown in "Schematic Diagram of Scribing and Printing" (Appendix-B).
- All the boxes in PETUNJUK LETAK PETA(Lampiran F) should 19. be fulfilled with the sheet names and numbers although some of them probably might never been printed.

۵0.	The complete "Magnetic Declination Information Text" is	
	as follows:	
	DEKLINASI MAGNETIK RATA-RATA TAHUN	
	DIPUSAT LEMBAR PETA	
	DEKLINASI TERSEBUT TIAP TAHUN BERKURANG DENGAN	

DEKLINASI MAGNETIK RATA-RATA TAHUN DIPUSAT LEMBAR PETA DEKLINASI TERSEBUT TIAP TAHUN TIDAK ADA PERUBAHAN

- Original sheet of marginal information (only right hand 21. side) shall be supplied by BAKOSURTANAL.
- As for province names, the name(s) of province(s) which is(are) covered by a map shall be printed just below the DIAGRAM LOKASI text above the DIAGRAM LOKASI box. 22. As for PEMBAGIAN DAERAH ADMINISTRASI box, the name(s) shall be printed just below the PEMBAGIAN DAERAH ADMINISTRASI text.
- Additional specifications to LAMPIRAN A item 7(NAMA-NAMA) 2% are as follows:
 - a) Specifications for the size of lettering, i.e. max. 5.0mm and min. 1.5mm, is the height of the first capital letter of a word.
 - b) If the size of the first letter of an annotation exceeds the size of 2.2 mm, all the letters in such an annotation shall be printed in capital letters. Therefore, as for annotations whose capital letters are between 2.1mm and 1.5mm in height, only abbreveated letters and head letters will be printed in capital letters.
 - c) Letter size of names of rivers within the mapping area will be as follows:

Except for S. Tabalong, the letter size of all the

river names and tributary names are 1.5mm. Letter size of S. Tabalong shall be 2.0mm. Further, if a river course shown in one map sheet is long or complex, river name will be annotated at more than one location for the purpose of better identification of such river.

d) Letter sizes of names of towns and villages of item 7.3 is as follows:

DESA: 2.0mm KAMPUNG: 1.5mm

- e) All the names which should be shown on the 1:50,000 scale topographical maps are listed in "Table for Confirmation of Geographical Names" which was authorized by BAKOSURTANAL AND D.P.U. The table shows not only correct spelling of the names but also correct separation or unification of the names. Just for the reference purposes, principles of the word separation and unification are shown below.
 - e-1. Basically, even if annotation is composed of two words, they will be printed in one word.

(Examples)

Incorrect	Correct
Murung Pudak	Murungpudak
Tanjung Kota	Tanjungkota
BANJAR MASIN	BANJARMASIN

e-?. Begardless of instructions of e-1. above, words such as UTARA, SELATAN, TIMUR, BARAT, KIWA, KIRI, KANAN, ATAS, BAWAH, TENGAH, DALAM, LUAR, HILIR, etc. will be printed separately.

(Eksmoles)

KELIMARTAN TIMUR Puain Kanan Jaing Hulu

(Exception)

Sungaipanjang Kotabaru Dusuntengah Muarauja Baritobaru

f) Letter sizes for mountains, a mountain, and a hill of item 7.2 are as follows;

Pegunungan (Peg): 3.0mm Gunung (G): 2.2mm Bukit (5t): 1.6mm

Note: Only the first letter of abbreviation and name will be printed in capital letters, such as Peg. Tabalong, G. Banjar, and Et. Tanjung

As for this mapping area, SINGKATAN DAN ISTILAH SETEMPAT of Lampiran C shall be as follows:

S - Sei, Sungai G - Gunung

Peg - Pegunungan

Bt Bukit

- 25. In the "Singkatan" at the lower margin of each map, only those words which occur in each map will be printed together with their abbreviations. Words and their abbreviations which are not necessary for a map shall not be printed. In the case that some unnecessary words are omitted, next(lower) words shall be moved upwards to fill the blank spaces to be made by omitted words.
- Symbols of 1.3 Kantor pemerintahan, 1.4 Tempat beribadat, and 1.10 Pusat Listrik of Lampiran A shall be placed just 26. above the centers of the true location of buildings to be expressed by such symbols regardless of the shape and size of such buildings. This instruction shall not be applied to the cases described in item 15.c) above.
- 27. Changes in the context of Lampiran F as well as the additional instructions to Lampiran F are as follows:
 - a) Symbol of bench marks in Keterangan in the marginal information will be changed from "W" to "T.T.G.". Expression of bench marks on the map shall be as examples shown below:

Second order bench marks:

Third order bench marks:

- b) Destinations of roads which will be cut by border lines of the maps shall be printed only for Jalan arteri. Distance to destinations will be expressed down to the unit of kilometers. Names of destinations will be the names of towns which are in the class equal to or higher than "Ibukota kecamatan", As for the destinations which locate beyond the mapping area, distance to such destinations shall not be printed because such distance is uncertain.
- c) Text of Datum Vertikal in the marginal information shall be as follows:

Datum Vertikal:

Muka laut di Takisong, Kalimantan Selatan

d) If more than one province occur in one map sheet, boundary symbol and province identification numbers shall be printed in the following manner in the box of PEMBAGIAN DAERAH ADMINISTRASI.

d-1. Boundary symbols

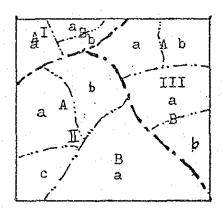
For the clarification purposes, length of short lines which consist the boundary symbol shall be reduced while the weight of the lines shall not be changed.

Hormal Symbol

Changed Symbol

d-2. Identification of provinces

Each province shall be identified by numbers such as I, II, III.... by placing these numbers in the centers of provinces as shown below. Lower class administrative areas will be identified by using capital and lower case letters.



- 28. A.M.S. specifications shall be applied to the ways of expression, location of annotations, or location of printing of the following items:
 - a) administrative names
 - b) geographical names
 - c) contour lines and contour line values
 - d) control points

- 29. As for the houses and buildings which should be shown by generalized representation of built-up areas, their location shall be indicated by BAKOSURTANAL on appropriate maps.
- 30. As for administrative boundary lines to be drawn in the box of PEMBAGIAN DAERAH ADMINISTRASI, administrative boundary lines shown on the existing 1:250,000 scale topographic maps shall be used as the source information of such boundary lines if official settlement of the location of administrative boundary line cannot be accomplished by the Indonesian government.
- 31. In addition to the instructions given above, instructions stipulated in "Official Report 1:50,000 Scale Topographic Map" dated August 14,1984 (refer to Appendix-C) shall also be regarded as the additional technical specifications for this topographic mapping project.

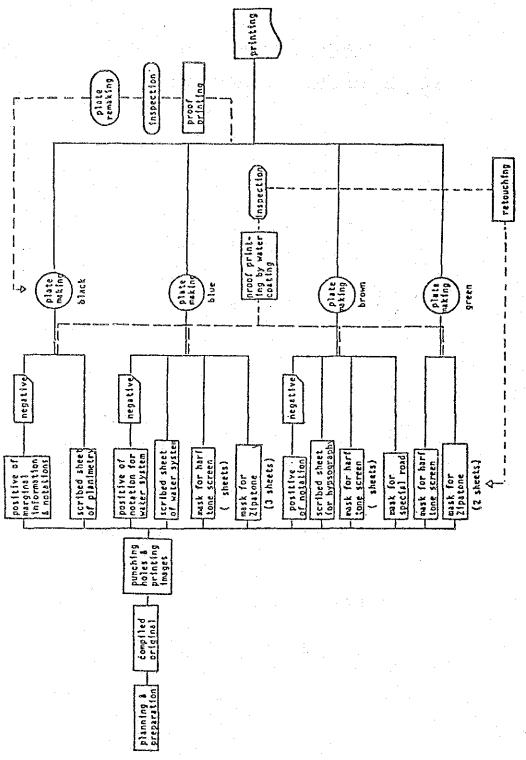
Physical and Chemical Characteristics of Printing Paper

Item		Average	Maximum	166-2
Folding endurance	Machine	Average	riaximum	Minimum
(time)	direction	2,400	3,200	1,900
Tension/1 kg	Gross	<u> </u>		
(MIT type tester)	direction	3,100	4,000	2,600
Bursting	Dry	5.53	5.85	5.10
strength (kgf/cm ²)	Wet	2.81	3.50	2.45
Tensile breaking	Dry Machine			-
strengh (kgf)	direction	11.6	12.1	11.1
	Cross	0.00	0.00	
	direction	8.93	9.30	8.45
	Wet Machine	3.59	3.80	2 20
£	direction	3. 23	3.00	3.30
	Cross	3.31	3.50	3.15
	direction	J. J.	3.30	دید،د
Tearing strength	Machine	92.0	94.0	90.0
(gf)	direction	72.0	74.0	
	Cross	87.7	90.0	86.0
	direction			
Smoothness (sec)	Surface	120	140	100
	Back	100	120	90
Expansion (%)	Machine	0.05		
(RH 60∿80)	direction	2.45	g 11 - 11 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Cross	0.10	_	_
	direction			
Opacity (%)		90.7	91.0	90.4
Brightness (%)		89.2	89.3	891
Size condition (see)		71	77	60
Thickness (mm)	0	0.101	0.104	0.099
Surface strength (A)	Surface	26	26	26
Weight (g/m²)			90.9	
Water content (%)			7.9	
5-11			6.3	

Paper material Unbreached pulp
Ground pump Not contained
Flow of fibres Good
Curling and other defects None
Texture Good
Dust None
Difference in quality between
surface and back Little

NOTE: Wet means the condition in which the specimen has been immersed in water of 20°C and is soaked with superflows water.

Schematic Diagram of Scribing and Printing



OFFICIAL REPORT

1:50,000 SCALE TOPOGRAPHIC MAP

August 14, 1984

OFFICIAL REPORT

1:50,000 SCALE TOPOGRAPHIC MAP

- 1. This official report is made on 14th August, 1984 as a supplement to SPESIFIKASI PETA RUPABUMI SKALA 1:50.000 "AKOSURTAHAL for field identification survey purposes for 1:50.000 scale topographic mapping of Kalimantan selatan.
- 11. The Supplement to the Map Specification "SPESIFIKASI PETA RUPABUMI SKALA 1:50.000 BAKOSURTANAL"
- II-1. "Lampiran B" to the specifications
 - 1.1. Jalan setapak, 2.6

To be added: Jalan setapak or footpath shall include all the abandoned (unused) roads which can be passed only by foot during field identification work.

1.2. Jembatan, 2.9

To be added: Bridges of more than 25 meters and less than 100 meters in length shall be drawn by bridge symbol of 2 mm size.

1.3. Titik sipat datar, 3.17

The elevation values of Bench Marks shall be printed below the identification of their points in the unit of meters and down to the second decimal fraction numbers.

Meanwhile, values of Astronomical, Doppler, Cadastral, and Triangulation points shall be expressed in meters and as integer numbers.

1.4. Perkebunan, 4.3

To be added: Plantations having size of more than 100 meters by 500 meters shall be drawn on the map.

1.5. Batas administrasi, 5.1

As for administration boundaries which don't exist at the time of field identification survey, the Japanese side and the Indonesian side will solve this problem after the photogrammetric plotting work is finished.

1.6. Sungai, 6.6

To be added: Rivers of more than 10 meters and less than 25 meters wide shall be drawn on the map with single lines. The width of rivers shown on the map shall be the width of their average surface. For mapping areas where there is no river wider than 10 meters, rivers whose width is more than 5 meters may be selected and drawn on the map.

II-?. "Lampiran C" to the specifications

7.1. Singkatan (page 2)
The word "Kali-Kali" shall be changed with the word "Sungai-Sun, ai".

III. This survey agreement is made and agreed by:

Ir. Bebas Purnawan
Mr. Mikio Togashi
Mr. Moh Rusfai Nurdin, BE
P3SA
Jakarta

Tanjung 14th August, 1984

