AWM52
2nd Australian Imperial Force and Commonwealth Military Forces unit war diaries, 1939-45 War

Item number: 8/3/13

2/13 Infantry Battalion

August 1943, Exercise "Postern", part 2 of 2

SUBJECT:
Air Support.

S 1A/30.

MOST SECRET.
20 Aust Inf Bde.
8 Aug 43.
Ref: I. _____.

1. In ops ~~an~~ air sp party will be att to 9 Aust Div. The air sp party's duties will be :-

(a) To advise the div comd on air sp.

(b) With the GIII (Air) to collate all requests from fwd units and to submit the div comd's priorities to Adv NGF.

(c) ~~To provide two offrs.to~~ In ops ~~a~~ *an* air sp offr~~s~~ will be att to 20 Aust Inf Bde to advise ~~the fwd bde comds~~ on suitable targets and to assist in the framing of requests for air sp.

(d) To sup air sp photos.

(e) To advise in air sp trg.

2. In order that requests for air sp may be clearly interpreted and immediate action taken the following information will be incl in requests in the order listed:-

(a) Whether the mission is coord with movement of friendly tps.

(b) Description of target and its exact location ref specifically to map or photo used.

(c) Disposn of friendly tps in relation to target and designation of bombline.

(d) Time limits of requested sp (if time of attack is immaterial state: "time immaterial").

(e) Direction and rate of movement of target (if this is not mentioned in message target will be assumed to be stationary).

(f) Description and location of secondary target (if adequate secondary target is not immediately apparent do not incl this element in message as HQ will have a target in mind).

(g) If a late int summary of target and sitn is to follow, request should be concluded ~~,"X" follows.~~ with the words: X follows.

3. If at any time between origin of request and the air attack the sitn is changed in any degree whatsoever, the air sp party should be immediately notified.

4. A reply can be expected to requests indicating approval or disapproval and if approved the estimated time over target, and number and type of planes.

5. In a case where close, direct air sp is to be given to an adv, and a time limit has been set, it must be remembered that weather can prevent the A/C getting in to the target at the last min, and this must be provided for in any plan. In this type of sp under no circumstances will air action be taken after the time laid down for the completion of the strike.

DISTRIBUTION:
~~3~~/13 Aust Inf Bn.
2/15 Aust Inf Bn.
2/17 Aust Inf Bn.
9 Aust Div Carr Coy.

Lieut for Maj.
BM, 20 Aust Inf Bde.

TELEPHONES— Posten file

Australian Military Forces MOSTSECRET

Please quote this number when replying.

Address 9 Aust Div

Date 1 Sep 43

I 202/39/1

Copy for 2/13 Aust Inf Bn

Subject: Information Enemy.

20 AUST INF BDE
24 AUST INF BDE
26 AUST INF BDE
RAA 9 AUST DIV

1. LHQ places 200 enemy troops comprising part of 21 IMB hospital and possibly some naval troops in vicinity of HOPOI and BUKAUA. NGF places 21 IMB at LAE. In neither case is the information recent. Latest photographs show considerable activity in the area but there are no indications that the activity is of a military nature.

2. There is no further evidence of AFVs in LAE. Any that may be there are vulnerable to .55 Tk A rifle fire.

3. There is no further evidence that 20 Div is complete in LAE-SALAMAUA area. The latest placing is BOGADJIM-YUARA two regiments, MADANG one regiment. The fourth regiment has had one battalion identified at SALAMAUA and there is some evidence to suggest that part of this regiment was in the SAIDOR area. SAIDOR is a barge staging point for southern movement to LAE-SALAMAUA.

4. No further identification of 41 Div at SALAMAUA. There is good evidence that part of this div was at ULINGAN on 10 Aug en route to MADANG. The main force is placed at WEWAK.

5 It is not thought that the enemy will make any attempt to withdraw from SALAMAUA.

[signature] Capt
for Lt Col.
GS.

MOST SECRET
9 Aust Div
15 Aug 43

9 AUST DIV SPECIAL POSTERN INTELLIGENCE SUMMARY NO I Copy No 2..

Based on information received up to 0900 hrs 14 Aug 43

Ref maps 1/63,360 - Sheets NADZAB - LAE - MONGI RIVER

PART I - ENEMY

1. ESTIMATED ENEMY STRENGTH

Table setting out estimate of enemy strengths and firepower by units is attached as Appx "A". This will be amended as further information is received.

2. ENEMY INTENTIONS

Owing to the interference to the supply of the forward troops in the LAE - SALAMAUA area by our constant attacks on his coastal barge traffic from the main NEW GUINEA bases at MADANG and WEWAK, it is considered that the enemy cannot undertake a large scale offensive in the present area of operations until he has established a secure line of supply.

This line of supply will be gained on the completion of the MARKHAM VALLEY road from BOGADJIM linking MADANG and LAE. At the present rate of progress it is considered that this route can be available for motor transport up to DUMPU by the end of Aug or early Sep and from DUMPU there should be little difficulty in traversing the remainder of the distance to LAE.

It is therefore appreciated that his present intention is to hold LAE and SALAMAUA areas at all costs. This is borne out by his continuance to supply and reinforce these areas by barges and submarine traffic despite the difficulties and losses occasioned by our attacks.

Based on the present estimate of the enemy strength in these areas it is further appreciated that the enemy's reaction to pressure on LAE will be of a defensive nature with limited counter attacks.

3. BEACH DEFENCES

There is no information of static beach defences in the immediate area of the landing but it is presumed that there is at least a detachment at HOPOI S09 41 and BUKAUA S10 39, as our PT boats have been fired on from this area. There is also evidence of dumping in the vicinity. It is likely that the enemy maintains a coastal patrol or coast watching posts based on the coastal native villages. As there are few beaches between HOPOI and LAE on which it is impossible to effect a landing the task of adequate beach defence is a difficult one.

4. LAE DEFENCES -

(a) Infantry

In keeping with the general Japanese practice the ground defences of LAE are arranged as a series of strong points, covering the approaches to the town and air strips at LAE and MALAHANG.

(b) Artillery

Available information is set out in Appx "A".
It is also possible that there are naval guns of 6" calibre capable of ranges up to 19,000 yards.

(c) AFVs

None so far reported.

(d) A defences overprint will be issued at a later date.

5. POSSIBILITY OF REINFORCEMENT AFTER COMMENCEMENT OF OPERATION

(a) Locations and estimated strengths

(i) NEW GUINEA

HOLLANDIA	- 500	
VANIMO	- 500	
AITAPE	- 200	
BUT	- 300	
WEWAK	-20000	41 Div Main Force
HANSA BAY	- 5000	41 Tpt Regt (part)
		37 Indep Engr Regt (part)
MADANG	-13/16000	Adv 18 Army
		20 Div - less elements at LAE and SALAMAUA
		2 Base
SAIDOR	- 500	
SIO	- 100	
FINSCHHAFEN	- 1000	
SALAMAUA Area	- 8820	20 Div (part)
		51 Div (part)
		One bn 21 Inf Regt
		2 and 5 SNLPs

(ii) NEW BRITAIN

RABAUL	-35000	8 Army Gp
		65 Bde
		Inf Regt 20 Div(Four Regt Div)
		38 Recce Regt
		One Bn 8 Tk Regt
		One bn paratps (?)
JACQUINOT	- 100	
GASMATA	- 500	
ARAWE	- 100	
CAPE BUSHING	- 500	
CAPE GLOUCESTER	- 500	
TALASEA	- 300	
UBILI	- 100	

(b) Routes and Times

(i) MADANG

By barge 4 days staging SAIDOR - SIO - FINSCHHAFEN - LAE. Overland using MARKHAM VALLEY route 9/11 days based on the use of MT as far as DUMPU, thence by foot with native carriers. Lightly equipped tps may make slightly better time. If moving from WEWAK tps would take 2 further days.

By air - 2 hours.

(ii) FINSCHHAFEN

By barge - 12/14 hours

By overland route on track that is known to exist on the crest of the range and descending to GAWAN R715 556 thence down the bank of the SANKWEP and BUSU RIVERS to LAE - 3½/4 days for lightly equipped tps. Would require an extra day if native carriers were used to bring supplies at the same time.

5. POSSIBILITY OF REINFORCEMENT AFTER COMMENCEMENT OF OPERATION (Ctd)

(b) Routes and Times (Ctd)

(iii) RABAUL

Dependent upon shipping or transport aircraft available :

To LAE direct - sea - minimum using Destroyers 15 hrs.
maximum using barges 4/5 days
air - 3 hrs

To MADANG - sea - minimum using Destroyers 16 hrs.
maximum using ships 2 days
- air - 3 hrs

To FINSCHHAFEN - sea - minimum using Destroyers 12 hrs.
maximum using ships 1½ days.
air - 2½ hrs.

These estimations are based on the assumption that troops are organized and ready for an instant move. This would hold possibly for MADANG - WEWAK area and FINSCHHAFEN but is unlikely to hold for RABAUL.

(c) Considerations

(i) Airborne - The Japanese have planes capable of transporting 15/30 troops per load but as at 8 Aug there were insufficient available in the SW Pacific area to make any serious attempt at moving a large body of troops.

(ii) Paratroops - There is no further information of the Japanese parachute bn which was reported to be at RABAUL as late as Feb of this year. The area of operations is within their normal range. It is not known if they are equipped to operate in their proper role.

(iii) Conclusions

Our pressure from the south should contain the maximum troops in the SALAMAUA area and it is not considered any could be spared to reinforce LAE. Any troop movement direct to LAE by sea would be a difficult and risky operation but the enemy may be prepared to take this risk to effect speedy reinforcement using destroyers for the purpose.
Reinforcement by air is dependent upon number of transport aircraft that can be made available from other areas. Again a direct route to LAE would be inviting heavy casualties unless night flights with their attendant difficulties were undertaken.
The most likely course for immediate reinforcement is the overland route from MADANG - WEWAK area with resupply by sea from RABAUL to MADANG - WEWAK or FINSCHHAFEN. The possibility of reinforcement by destroyers from NEW BRITAIN must, however, not be overlooked.

6. SUPPLY

Hitherto the LAE - SALAMAUA area has been largely supplied by coastal barge traffic from MADANG and NEW BRITAIN. The use of this route during the operation would be rather hazardous and unless the enemy is prepared to run this risk he is forced to use the long and difficult overland route from MADANG, the shorter but equally difficult overhand route from FINSCHHAFEN or supply by air. No accurate estimate can be made of his reserves of supplies already dumped in the LAE - SALAMAUA area but it is not considered to be large.

7. AIR BASES AND STRENGTHS

(a) The main enemy air bases likely to affect the operation are situated at :-

(i) NEW GUINEA

HOLLANDIA	x
BUT	
DAGUA	o
WEWAK	o
BORAM	o
NUBIA	
ALEXISHAFEN I	x
ALEXISHAFEN II	x
MADANG	
MALAHANG	x
LAE	
SALAMAUA	

(ii) ADMIRALTY ISLANDS

LORENGAU

(iii) NEW BRITAIN

CAPE GLOUCESTER I	
CAPE GLOUCESTER II	x
GASMATA	x
KERAVAT	x
LAKUNAI	o
RAPOPO	o
VUNAKANAU	o
TOBERA	x

(iv) NEW IRELAND

BORPOP	x
KAVIENG	o
PANAPAI	

o = major base
x = not in use at present

The determination of important bases is rendered difficult by the enemy's practice of holding his planes in rear areas and bringing them forward when needed.

(b) Estimate of Enemy Land Based Aircraft as at 8 Aug 43

Areas	S/E SSF	T/E SSF	L/B & M/B	S/EB	F/B	F/P	TPT & OBSN	TOTAL
NEW GUINEA	86	9	63			5	8	171
DUTCH NG	6							6
NEW BRITAIN	91	21	144		4	12	13	285
NEW IRELAND			18	13		9		40
SOLOMONS	49		12	9	2	25		97
Totals	232	30	237	22	6	51	21	599

8. MORALE

(a) The critical position at SALAMAUA is probably causing apprehension among the troops.

(b) It is likely, however, that they may have been informed of the intention to relieve them by moving a large force overland from MADANG.

(c) The exhortation to hold out until this force arrives will no doubt be fulfilled with characteristic stubbornness.

(d) The psychology of the Japanese makes the assessment of morale extremely dangerous. They should never be judged on the reactions of German or Italian troops faced with similar circumstances.

PART II - TOPOGRAPHICAL

9. AREA OF OPERATIONS

The area of operations extends from LAE eastward to include HOPOI S09 38 and northwards from the coast of the HUON GULF between these two points to the RAWLINSON RANGE some 15 miles inland.

10. TERRAIN

(a) Configuration

LAE is situated on the flat ground at the mouth of the MARKHAM RIVER but is dominated from the west by MOUNT LUNAMUN R69 39 and ATZERA RANGE, commencing approx 3 miles NW of LAE and running in a NW direction, and from the north by spurs in general areas R66 52 and R78 48. The country to the east is flat coastal plain varying in width from 5 miles at the R98 easting to 300 yards on the S14 easting where the foothills first approach the coast. This coastal plain is under 50 feet altitude and is overlooked by MOUNT LUNAMUN and ATZERA RANGE at LAE itself. In clear weather observation as far as HANISCH HARBOUR is obtainable from these two features.

(b) Ground Condition

The soil of the coastal plain is black loam to a depth of up to 3 feet with a gravelly subsoil. The surface is affected by rain and is reported to cut up and become very boggy under wheeled traffic.

The coastal strip for distances up to 6/800 yards from the beach is often low lying and swampy. This swampy strip is reported to be penetrable on foot in almost all areas. There are, however, patches of dense mangroves which are virtually impenetrable.

The ground surface becomes firmer as the foothills are approached.

(c) Vegetation

(i) Coastal strip. Dense low to medium height scrub with scattered patches of mangrove and isolated groups of sago palms. Normal vegetation found in swampy areas.

(ii) Hinterland. Rain forest interspersed with patches of Kunai grass (often covering up to two square miles) and in the village areas coconut plantations and overgrown native gardens..

(iii) Foothills. Dense rain forest.

(d) Streams

The streams have characteristic broad gravelly beds containing several water channels which change position frequently. All streams are subject to flooding though this tendency is found more often in the NW or dry season of sudden torrential storms.

(i) BUSU RIVER

Near the mouth it is usually easy to cross on foot (average maximum depth 3 feet in normal weather). In flood (maximum depth 5½ feet) it is extremely swift and cannot be forded by loaded men. Bridging is necessary/for the passage of vehicles. Possible fords, / at all times squares R 71 45 and R 71 46. Possible bridging sites: Squares R 70 47, R 70 48, R 70 49.

10. TERRAIN

(d) Streams (ctd)

(ii) BULU, BUSO, BUIEM, BUNGA, BUREP — Fordable on foot except during floods.

(iii) Other streams fordable on foot at all times.

(e) Tracks.

(i) Coastal track - runs from LAE to FINSCHHAFEN at times on the beach itself, on the raised mound backing the beach or slightly inland to skirt patches of swamp. This track was largely used for traffic between Missions situated between LAE and FINSCHHAFEN and between LAE and FINSCHHAFEN themselves. The track is reported to be 1-5 feet wide and could be improved to take Jeeps.

(ii) Inland track - A foot track now probably overgrown is reported to exist from HOPOI via BUSO R943 455 - ALUKI R889 460 - APO R853 442 - MUSOM R838 465 to village at R809 462. From there, there is a possible route around the foothills to the SANKWEP R thence to GAWAN R715 556 and MUSOM R68 55. There are connections from SINGAUA and BULU PLANTATIONS to this route.

(iii) Foot track - From the mouth of the BUSU R NW along the east bank to the SANKWEP thence up the west bank of this stream to GAWAN.

(iv) Foot track - From MALAHANG strip R72 42 along west bank of BUSU R to MUSOM R68 55 crossing the BUSU by a kunda bridge R687 544. This bridge was known to exist in Jan 43 and is probably maintained by the Japanese.

(v) GAWAN and MUSOM R838 465 are connected to the mountain track LAE - FINSCHHAFEN by separate tracks running northwards. This LAE - FINSCHHAFEN inland track is a precipitous foot track which can be traversed by lightly equipped troops in 3½ to 4 days.

(vi) There is also reported to be a track running north from HOPOI to the inland LAE - FINSCHHAFEN route. No additional information on its exact location is at present obtainable. It can be no more than a steep foot track due to the nature of the country.

11. METEOROLOGICAL

(a) Seasons

The two main seasons are the NW from Dec - Mar and the SE from May - Oct.

(i) NW - Prevailing wind westerly with generally fine weather. Sudden heavy rain storms are not unusual producing flood conditions in the rivers.

(ii) SE - Prevailing wind from SE strongest from Jul to Aug. Wind usually rises approx 1100 hrs and blows until dusk or a little after. This season brings heavy rain and the mountains are usually clouded. Frequently the clouds are as low as 1000 feet. Rain is usually for several days at a time.

11. METEOROLOGICAL (Ctd)

(b) Tides and Sea Conditions

(i) Tides are irregular and largely unpredictable. Rise is about 3 feet at springs. Highest springs are in Dec, and lowest in Jun, when levels are approx 6 inches above and below normal. Frequently the water rises and falls quickly, then remains at the same level for a considerable time.

(ii) Heavy seas are experienced along the coast during the SE season with a maximum height of 6 feet between crest and trough. Seas decline when the wind falls in the evening and by dawn there is usually only a gentle swell. In the NW season seas are generally moderate.

12. WATER SUPPLIES

Besides water obtainable from the streams, wells will yield water at depths from 2 to 6 feet almost anywhere in the coastal plain.

13. BEACHES

(a) General

Beaches between LAE and FINSCHHAFEN are composed of black sand and pebbles, the latter most frequently to the west of the river mouths.
The breadth of beach between high and low water is narrow, usually from 6 to 30 feet. In places the beach is backed by a low sandy or gravel terrace which in the majority of cases causes swampy conditions immediately inland.

(b) YELLOW BEACH

(i) Location - .R9862 3979 - R9766 3980 - bounded on the east and west by streams.

(ii) Nature - black sand, backed on the western end for approx 250 yards by low scrub-covered sandy terrace and cut at approx .R9779 3990 by a small stream.

(iii) Length - 1000 yards

(iv) Width - Average 20/30 feet along entire length.

(v) Hinterland -

From western boundary to including intermediate stream low dense scrub with patches of low lying swampy ground extending inland approx 250 yards to the commencement of the rain forest area.
From the stream to plantation the scrub is still dense though the ground appears to be drier. There is, however, a suspected patch of swamp in the centre of this section, some 420 yards long by 250 yards wide, running parallel to the beach and approx 120 yards from it.
/ inland
The plantation of coconuts 600 yards by 200 yards is similar to plantation area RED BEACH.
Behind the coastal fringe there is dense rain forest, with again overgrown native gardens and clearings mostly inter-connected by foot tracks.
As at RED BEACH the whole coastal plain is flat for approx 5 miles to the foothills.

(vi) Egress

Existing foot track running northwards through plantation.

13. BEACHES (Ctd)

(c) RED BEACH - See Appx "A" to 9 Aust Div OO No. 1.

(i) Location - R9255 3955 to R9350 3955 bounded on the west by a small stream and on the east by a foot track running north from beach to native village The beach is cut by two streams at approx R9339 3955 and R9303 3960 which form small lagoons behind the beach.

(ii) Nature - black sand and shingle backed by low terrace of scrub covered sand. Much of the beach is over-hung by trees.

(iii) Length - 1100 yards.

(iv) Width - Varies from approx 60 feet for 400 yards astride the plantation to approximately 18 feet for the remainder of the beach.

(v) Hinterland

From western extremity to plantation the beach is backed by dense low scrub extending inland for some 250 yards. The ground close to the stream which forms the western boundary is likely to be swampy but conditions east of small lagoon at 9303 3960 appear to improve and should also become progressively firmer as one moves inland.
The plantation area, 100 yards by 200 yards, consists of coconut palms spaced approx 30 feet apart with a strong secondary growth between the palms. Going should be firm - dependent on the weather.
From plantation to eastern extremity the vegetation is fairly dense scrub with patches of swampy ground in the vicinity of the streams at R9339 3955 and R9303 3960.
The swampy area is not considerable and is not considered an obstacle to movement on foot. The scrub which is interspersed with high timber extends inland for approximately 500 yards.
Along the entire beach, after crossing the coastal fringe of scrub, the country opens out into over-grown native gardens and on the western end, grass and light/Kunai grass. The overgrown gardens provide a well drained surface but the secondary growth which covers the old gardens is very dense and from 8 to 20 feet high. Surrounding the native gardens the vegetation is rain forest similar to that encountered in the NQ TABLELANDS area. The whole area is flat plain extending for approx 5 miles inland to the foothills.

/ light scrubbed clearing leading into a large area of

(vi) Egress

Existing foot tracks running north from beach. one through the plantation and the other from the eastern extremity of the beach.

ACKNOWLEDGE

G D Lees Capt
Lt Col
GS

MOST SECRET

Appx "A" to 9 Aust Div Special POSTERN Intelligence Summary No. 1

ESTIMATE OF ENEMY STRENGTH BY UNITS & FIRE POWER - LAE 1 Aug 43

Serial No	UNIT	STRENGTH	INF WEAPONS LMG	MMG	GREN DISCH	MOR-TARS	ARTY 37 mm	70 mm	75 mm	105 mm	ARTY TOTAL	AA 13 mm	25/40 mm	75 mm	AA TOTAL	TOTAL ALL GUNS
	FIELD TROOPS															
1	20 DIV (part)	2500	108	24	103		6	6	4		16					16
2	'IKEDA' Arty Unit	500							12		12	8			8	20
3	1 Bn 14 Fd Arty	390	4						12	4	16					16
4	14 Pnr Unit	130	6													
	TOTAL	3520	118	24	108		6	6	28	4	44	8			8	52
	AA UNITS															
5	29 Fd Pom Pom Coy	130											4		4	4
6	22 AA Unit	100												2	2	2
7	Aerodrome Bn	200	5	8	2								4	2	6	6
8	2 Air Def Unit	330		10									12		12	12
9	'YOSHIMOTO' Unit	100												4	4	4
	TOTAL	860	5	18	2								20	8	28	28
	BASE - L of C UNITS															
10	7 Base HQ	100	4		2											
11	81 Guard Unit	150	4											4	4	4
12	82 " "	150	4											2	2	2
13	3 Coy 51 Tpt Regt	250	6													
14	2 Fd Hosp	140														
15	3 Tele Regt (pl)	40														
16	Water Purif Unit	40														
17	40 Sea Duty (pl)	40														
18	105 Sea Duty (pl)	40														
19	3 Deb Unit (part)	100														
20	85 Naval Sigs	40														
	TOTAL	1090	18		2									6	6	6
	GRAND TOTALS	5470	141	42	112		6	6	28	4	44	8	20	14	42	86
WEAPONS BY PHOTO INTERPRETATION									19		19	10	18	13	41	60

NOTE : SERIAL No.1 - Temporary estimate only. SERIAL No.2 - Due to ease of concealment there are probably more Fd guns than those shown by photographic interpretation.

RANGES OF GUNS :-

37 mm		5450 yds
70 mm		3000 "
75 mm	Inf gun	7000 "
75 mm	Mtn gun	10000 "
105 mm		19300 "

HORIZONTAL RANGES OF AA GUNS :

13 mm	7085 yds
25 mm	?7000 "
40 mm	Not known
75 mm	15200 yds

DISTRIBUTION:

	Copy Nos
20 Aust Inf Bde	1 - 4
24 Aust Inf Bde	5 - 8
26 Aust Inf Bde	9 - 12
2/4 Aust Indep Coy	13
RAA 9 Aust Div.	14 - 16
RAE 9 Aust Div	17 - 20
Sigs 9 Aust Div	21
2/2 Aust MG Bn	22
2/3 Aust Pnr Bn	23
1 Aust Tk Bn	24
532 Sh Bn 2 ESB	25 - 26
Amph Force	27 - 29
Comd	30
G	31
AQ	32
Rear HQ 9 Aust Div	33 - 34
AASC 9 Aust Div	35 - 37
Medical	38 - 42
File	43
War Diary	44 - 45
Spares	46 - 51

S/21A/8

MOST SECRET.

HQ 20 Aust Inf Bde.
Ref: I 1/1/20
25 Aug 43.

Subject: Requests for Air Support
POSTERN Operation.

b operation file

2/13 Aust Inf Bn.
2/15 Aust Inf Bn.
2/17 Aust Inf Bn.

1. Herewith proforma to be used in requesting air support.
2. It is suggested that they be made available down to forward companies. They should be used in ref to 9 Aust Div GP 35/7/- of 13 Aug 43.
3. When requesting air support through signal channels the letter (A, B, C, etc only need be given. An example of a request for air support received by telephone might read :-

"A strafing B 500 troops in bivouac area C 1 ASP ref A 5971 native village C2 EAST of MT TAMBU D1 from NW D2 no D3 yes. E1 0900 hrs 25 Aug E3 yes E4 NOT before 1500 hrs 25 Aug NOT after 1630 hrs 25 Aug F nil G own troops West of line A 12 & 5 C1362 H overcast at 1000ft J more observed".

B Williams Capt for Maj.
BM 20 Aust Inf Bde.

15

AUSTRALIAN MILITARY FORCES. **MOST SECRET.**

Subject : Interservice Recognition Procedure, Recognition Signals for Aircraft.

HQ 20 Aust Inf Bde
Ref : S3/11/192
5 Aug 43.

S 4A /15

2/13 Aust Inf Bn.
2/15 Aust Inf Bn.
2/17 Aust Inf Bn.

1. Attached is list of current and reserve columns of aircraft recognition signals for period 0000 hrs GMT on day 9 to 2400 hrs on day 18.

2. Current columns become effective as from 0000 hrs GMT 5 Aug 43 (1000 hrs 5 Aug 43 Local Standard Time).

3. Aircraft will initiate the procedure by flashing the appropriate letter from column 3, surface craft or ground station will answer by flashing the appropriate letter from column 4, followed by the letter R sent 3 times. Surface craft or ground station will initiate the procedure by flashing the appropriate letter from column 4, the aircraft will then acknowledge by flashing same letter from column 4 followed by the letter R sent 3 times.

4. All letters will be flashed by a single white light.

5. Acknowledge.

BW Williams Capt for Maj
BM 20 Aust Inf Bde.

S4A/36

SUBJECT:
Interservice Recognition Procedure,
Recognition Signals for Aircraft.

MOST SECRET.
HQ 20 Aust Inf Bde.
12 Aug 43.

Ref: I 3/11/197.

2/13 Aust Inf Bn.
2/15 Aust Inf Bn.
2/17 Aust Inf Bn.

1. Att is list of current and res columns of A/C Recognition sigs for pe period 0000 hrs GMT on day 19 to 2400 hrs on day 31.

2. Current columns become effective as from 0000 hrs GMT 15 Aug 43 (1000 hrs 15 Aug 43 Local Standard Time).

3. A/C will initiate the procedure by flashing the appropriate letter from coln 3,surface craft or ground sta will answer by flashing the appropriate letter from coln 4,followed by the letter R sent 3 times. Surface craft or ground sta will initiate the procedure by flashing the appropriate letter from coln 4,the A/C will then ack by flashing same letter from coln 4 followed by the letter R sent 3 times.

4. All letters will be flashed by a single white light.

5. Ack.

Maj.
BM, 20 Aust Inf Bde.

DAY.	Time (GMT)	--CURRENT COLNS-------- A/C Recognition Letter.	Surface Craft or ground Sta Letter.	------RES COLNS---------- A/C Recognition Letter.	Surface Craft or Ground Sta letter.
(1)	(2)	(3)	(4)	(5)	(6)
19.	0000-0600.	G	X	B	V
	0600-1200.	C	H	M	W
	1200-1800.	Q	L	Z	D
	1800-2400.	Z	F	X	G
20.	0000-0600.	H	N	C	B
	0600-1200.	D	X	D	H
	1200-1800.	V	G	Q	W
	1800-2400.	Z	P	P	S
21.	0000-0600.	N	S	D	O
	0600-1200.	D	L	Z	I
	1200-1800.	Q	H	P	V
	1800-2400.	J	C	B	X
22.	0000-0600.	S	Z	D	F
	0600-1200.	J	B	I	N
	1200-1800.	P	N	C	Z
	1800-2400.	I	H	P	V
23.	0000-0600.	D	C	B	M
	0600-1200.	Z	H	D	O
	1200-1800.	J	L	V	B
	1800-2400.	F	Q	Y	H
24.	0000-0600.	W	Q	M	C
	0600-1200.	Y	L	B	Q
	1200-1800.	O	V	V	D
	1800-2400.	B	D	Z	D
25.	0000-0600.	G	Q	N	G
	0600-1200.	S	Y	X	P
	1200 -1800.	H	J	I	Z
	1800-2400.	W	N	L	V
26.	0000-0600.	F	C	L	V
	0600-1200.	M	Z	J	Y
	1200-1800.	P	Y	S	Z
	1800-2400.	X	H	X	P
27.	0000-0600.	J	P	Y	Q
	0600-1200.	G	M	X	G
	1200-1800.	S	L	I	W
	1800-2400.	C	H	V	Z
28.	0000-0600.	I	L	X	Z
	0600-1200.	C	J	M	H
	1200-1800.	H	O	C	I
	1800-2400.	Q	W	F	X
29.	0000-0600.	H	I	Q	X
	0600-1200.	C	D	G	W
	1200-1800.	Q	N	C	N
	1800-2400.	M	B	Z	B
30.	0000-0600.	N	G	J	O
	0600-1200.	X	P	P	L
	1200-1800.	I	Z	M	F
	1800-2400.	L	V	B	X
31.	0000-0600.	F	H	G	Q
	0600-1200.	G	C	S	Y
	1200-1800.	J	D	H	J
	1800-2400.	L	Z	W	N

A Coy
2/3 Bn
17 Sept 43.

adjt.

Burial of Enemy Dead

Nil within this Coy.

H.H. Cooper Capt.
OC A Coy.

Army Form C.2128
(Pads of 100)
Reprinted January, 1943

MESSAGE FORM

Serial No.

CALL AND INSTRUC-TIONS	IN	No. of Groups GR.	OFFICE DATE STAMP
	OUT		

(ABOVE THIS LINE FOR SIGNALS USE ONLY.)

TO Bn HQ

FROM D Coy	Originator's Number	Date 16	In Reply to Number

Four	enemy	dead	have	been	buried
by	members	of	this	coy	

THIS MESSAGE MAY BE SENT AS WRITTEN BY ANY MEANS: *(EXCEPT), WIRELESS

SIGNATURE.....

* ORIGINATOR MAY DELETE "EXCEPT" AND INSERT "INCLUDING."

THIS MESSAGE MUST BE SENT IN CYPHER IF LIABLE TO INTERCEPTION OR TO FALL INTO ENEMY HANDS.

SIGNATURE.....

ORIGINATOR'S INSTRUCTIONS
DEGREE OF PRIORITY

TIME OF ORIGIN

T.H.I.

T.O.R.

(BELOW THIS LINE IS FOR SIGNALS USE ONLY.)

SYSTEM IN	TIME IN	READER	SENDER	SYSTEM OUT	TIME OUT	READER	SENDER	SYSTEM OUT	TIME OUT	READER	SENDER

Army Form C.2128
(Pads of 100)
Reprinted January, 1943

MESSAGE FORM

Serial No.

CALL AND INSTRUCTIONS	IN	No. of Groups GR.	OFFICE DATE STAMP
	OUT		

(ABOVE THIS LINE FOR SIGNALS USE ONLY.)

TO FUFA

FROM FEMI	Originator's Number H 7	Date 17	In Reply to Number —

seven	enemy	dead	in	vicinity	Coy
area	MISSION	HOUSE	⊙	NONE	within
Coy	perimeter	⊙	located	dead	NOT
yet	buried	pioneers	here	matter	in
hand					

THIS MESSAGE MAY BE SENT **AS WRITTEN**
BY ANY MEANS: (*(EXCEPT)) WIRELESS

Signature Edwards Sandy Cpl

* ORIGINATOR MAY DELETE "EXCEPT" AND INSERT "INCLUDING."

THIS MESSAGE MUST BE SENT **IN CYPHER** IF LIABLE TO INTERCEPTION OR TO FALL INTO ENEMY HANDS.

Signature.....

ORIGINATOR'S INSTRUCTIONS
DEGREE OF PRIORITY

TIME OF ORIGIN

T.H.I.

T.O.R.

(BELOW THIS LINE IS FOR SIGNALS USE ONLY.)

SYSTEM IN	TIME IN	READER	SENDER	SYSTEM OUT	TIME OUT	READER	SENDER	SYSTEM OUT	TIME OUT	READER	SENDER

Army Form 28
(Pads of
Reprinted Jan 1943

MESSAGE FORM

CALL AND INSTRUCTIONS	IN	No. of Groups GR.	Serial No. OFFICE DATE STAMP
	OUT		

(ABOVE THIS LINE FOR SIGNALS USE ONLY.)

TO	Bn HQ		
FROM	B Coy	Originator's Number	Date 16	In Reply to Number

Japanese	Soldier	buried	by	Coy	15 Sept.
8	(eight)	grs	buried	by	Coy.

THIS MESS MAY BE SENT AS WRITTEN BY ANY ME (*(EXCEPT)) WIRELESS

SIGNATURE R Hobbs Lt

* ORIGINA AY DELETE "EXCEPT" AND INSERT "UDING."

THIS MESSAGE MUST BE SENT IN CYPHER IF LIABLE TO INTERCEPTION OR TO FALL INTO ENEMY HANDS.

SIGNATURE

ORIGINATOR'S INSTRUCTIONS
DEGREE OF PRIORITY

TIME OF ORIGIN

(BELOW THIS LINE IS FOR SIGNALS USE ONLY.)

SYSTEM IN	TIME IN	READER	SENDER	SYSTEM OUT	TIME OUT	READER	SENDER	SYSTEM OUT	TIME OUT	READER	SENDER

T.H.I.

T.O.R.

K- S 15A/58

SUBJECT:
9 AUST DIV "POSTERN" INTELLIGENCE
SUMMARY NO 1.

MOST SECRET.
HQ 20 Aust Inf Bde.
Ref: G1/4/862.
18 Aug 43.

K

2/13 Aust Inf Bn.
2/15 Aust Inf Bn.
2/17 Aust Inf Bn.

1. Att is copy of the above Intelligence Summary.

2. This document will remain graded MOST SECRET until further notice.

Maj.
BM, 20 Aust Inf Bde.

S 14A/54

MOST SECRET

9 AUST DIV GENERAL STAFF INSTRUCTION No 9 — 16 Aug 43
G889/20/6
Copy No .....

SHIP TO SHORE RECOGNITION PROCEDURE - SMALL VESSELS

GENERAL

1. The system of identification signals for use by small vessels is set out hereunder.

2. This procedure will be used in SWPA north of latitude 18° south between vessels of the Allied Army Water Tpt Gp and Allied warships, aircraft, shore signal stations, and beach defence posts.

INSTRUCTIONS FOR USE

3. The Challenge

This will be flashed by a single white light at a speed of not more than eight words per minute, and will consist of -

(a) From shore stations, the letters INT flashed as one signal (••–•–)
(b) From warships or aircraft, the letters OE flashed as one signal (–––•)

4. The Identification

This will consist of a three letter group which must be flashed through twice immediately in reply to the challenge. The three letter groups for use by day (sunrise to sunset) and by night (sunset to sunrise) are set out in the attached list. The three letter groups change daily at 0001 hrs GMT (1001 hrs in time zone 'K').

5. The Acknowledgment

The challenging station will acknowledge the correct identification by flashing the letter "R" three times.

DISTRIBUTION

6. HQ 9 Aust Div will issue to formations etc lists of identification signals to cover a period of 7 days. As far as possible these lists will be promulgated several days in advance. Formations etc will ensure that all units manning shore stations or beach defence posts have a copy of the current list.

7. ACKNOWLEDGE.

W.B. Marshall
Lt Col
GS

DISTRIBUTION

	Copy Nos GS Instn	Copy Nos Attached List		Copy Nos GS Instn	Copy Nos Attached List
20 Aust Inf Bde	1 - 4	1 - 4	2/3 Aust Tnr Bn	25	25
24 Aust Inf Bde	5 - 8	5 - 8	A Coy Aust HQ Gd Bn	26	26
26 Aust Inf Bde	9 - 12	9 - 12	Comd	27	27
2/4 Indep Coy	13	13	G	28	28
RA 9 Aust Div	14 - 17	14 - 17	AQ	29	29
RAE 9 Aust Div	18 - 22	18 - 22	AASC 9 Aust Div	30	30
Sigs 9 Aust Div	23	23	File	31 - 32	31 - 32
2/2 Aust MG Bn	24	24	War Diary	33 - 34	33 - 34

MOST SECRET
Copy No .....

IDENTIFICATION SIGNALS - SHIP TO SHORE RECOGNITION - SMALL VESSELS

(For week ending 23 Aug 43)

Date	By Day (Sunrise to Sunset)	By Night (Sunset to Sunrise)
17 Aug 43	PCU	NAP
18 "	FJZ	ERN
19 "	BTB	BOB
20 "	LFN	WIB
21 "	BLF	LIB
22 "	CWL	LOM
23 "	HFE	BAL

15 October

REQUEST FOR AIR SUPPORT (Pro Forma)

TO			
FROM		Originators Number	Date

A	TYPE OF SUPPORT SUGGESTED:
B	DESCRIBE TARGET
C	(1) Location ASP Ref (2) Landmarks (3) Altitude of Target
D	(1) Suggested line of approach (2) Is indication of target. Proposed? How? (3) IS STANDARD SIGNAL OPERATION INSTRUCTION TO BE USED?
E	(1) Target sighted (2) Direction of movement (3) Co-ordinated with ground attack? (4) ATTACK REQUIRED NOT BEFORE ..... NOT AFTER ..... Time immaterial .....
F	SECONDARY TARGET (if any)
G	BOMB LINE
H	Weather over target
J	NIL

If liable to fall into enemy hands or intercepted this message must be sent IN CYPHER.

TOO: ..

S1A[A]/45

HQ 20 Aust Inf Bde.

Ref: I. 9/11/200 .
16 Aug 43.

20 AUST INF BDE- INTELLIGENCE INSTN NO 1.

SITREPS.

1. Sitreps to 0530,1200 and 1730 hrs respectively will be submitted by units to this HQ daily,and will be lodged for transmission not later than 0600,1230 and 1800 hrs respectively,and will be despatched by IMMEDIATE priority.

2. Additional Sitreps will be sent at the discretion of units as often as circumstances warrant to keep this HQ fully informed.

3. Each Sitrep will be given a serial number.

4. Sitreps will form a continuing series,each Sitrep carrying on from the time of the previous one. However events should be dealt with by areas ~~or~~ sub-units where they lend themselves to such sub-division rather than in strict chronological sequences.

5. Times of events detailed will be clearly stated.

6. Sitreps should from time to time outline the FDL of the unit concerned,particularly after an engagement or when disposns have been changed.

7. The following matters will be included in Sitreps where they arise:-

(a) Condition of air-strips.
(b) Condition of trs and crossings.
(c) Number of enemy dead by counting corpses.
(d) Number of fresh enemy graves.
(e) Estimates of enemy casualties based on actual observation.
(f) Met infm (where unit is det).

8. The intention or outline plan for future ops will not be disclosed in Sitreps. This will be done by separate sig or despatch.

9. Sitreps are not required from units while they are not in an operational area,except to report movements of units or sub-units.

Dvt Thorneycroft Lieut for Mai.
BM, 20 Aust Inf Bde.

DISTRIBUTION:
2/13 Aust Inf Bn.
2/15 Aust Inf Bn.
2/17 Aust Inf Bn.

Army Form C.2128.

MESSAGE FORM

Serial No.

CALL AND INSTRUCTIONS	IN ---- MOST SECRET ----	No. of Groups. GR.	Office Date S
	OUT 1.0.		

(ABOVE THIS LINE IS FOR SIGNALS USE ONLY.)

TO 2/13, 2/15 and 2/17 AUST INF BNS.

FROM	Originator's Number	Date	In Reply to Nur
20 AUST INF BDE.	0.130.	17.	

MOST	SECRET	(.)	all	maps	air
photographs and		photo	maps	of	operatio
areas	will	remain	graded	MOST →	SECRET
until	further	notice.			

This message may be sent **As Written** by any means
*(except)
(.....) Wireless

Signature.....

This message must be sent **In Cipher** if liable to interception or to fall into enemy hands

Signature.....

Originator's Instructions
Degree of Priority

Time of Origin
1330

T.H.I.

T.O.R.

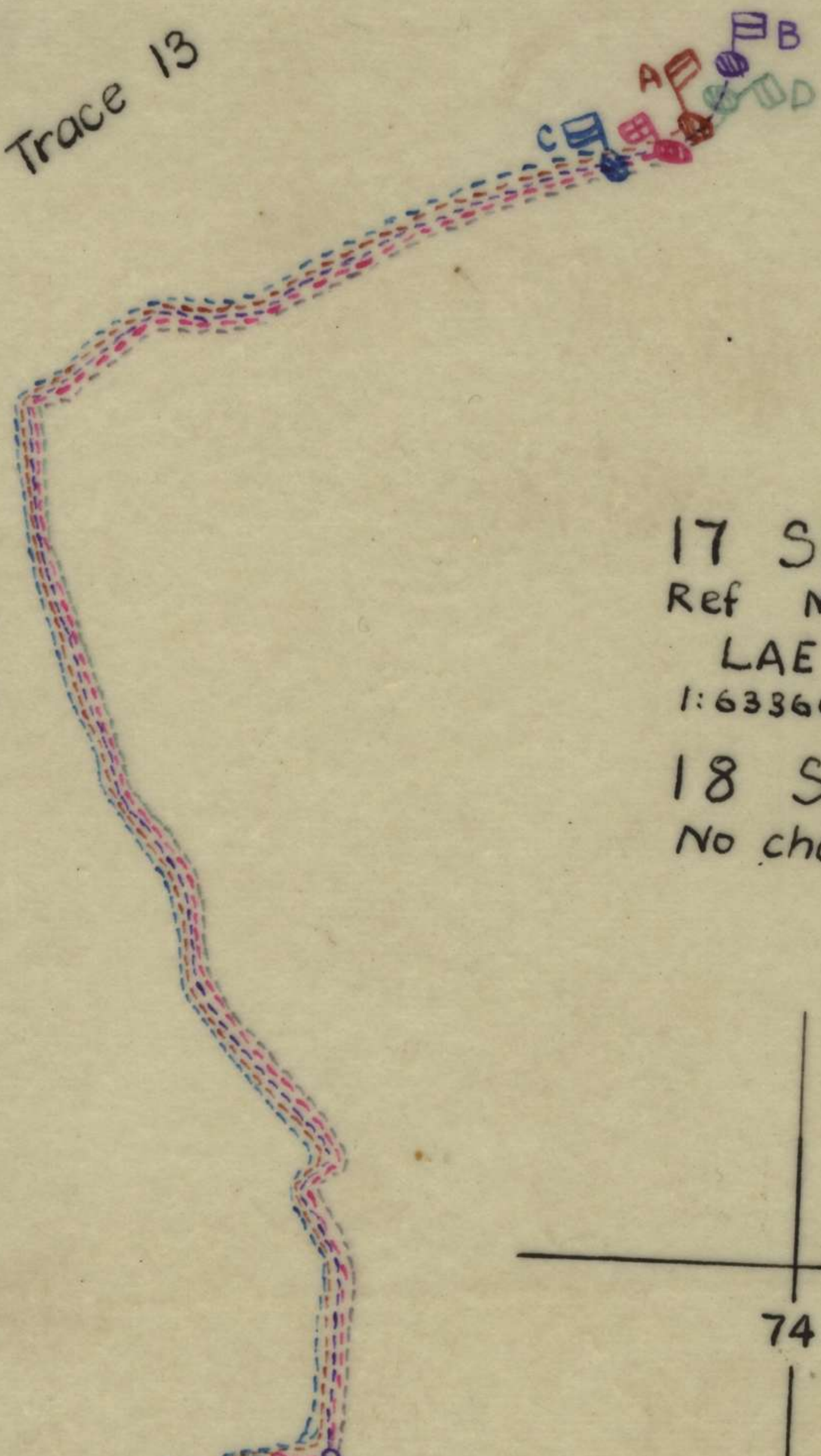
* Originator may delete "except" and insert "including"

(Below this Line is for Signals use Only.)

System in	Time in	Reader	Sender	System out	Time out	Reader	Sender	System out	Time out	Reader	Sender

2104/PMFO - 200,000 Pad

Trace 13



17 SEP
Ref Map
LAE
1:63360.

18 SEP
No change.

42
74

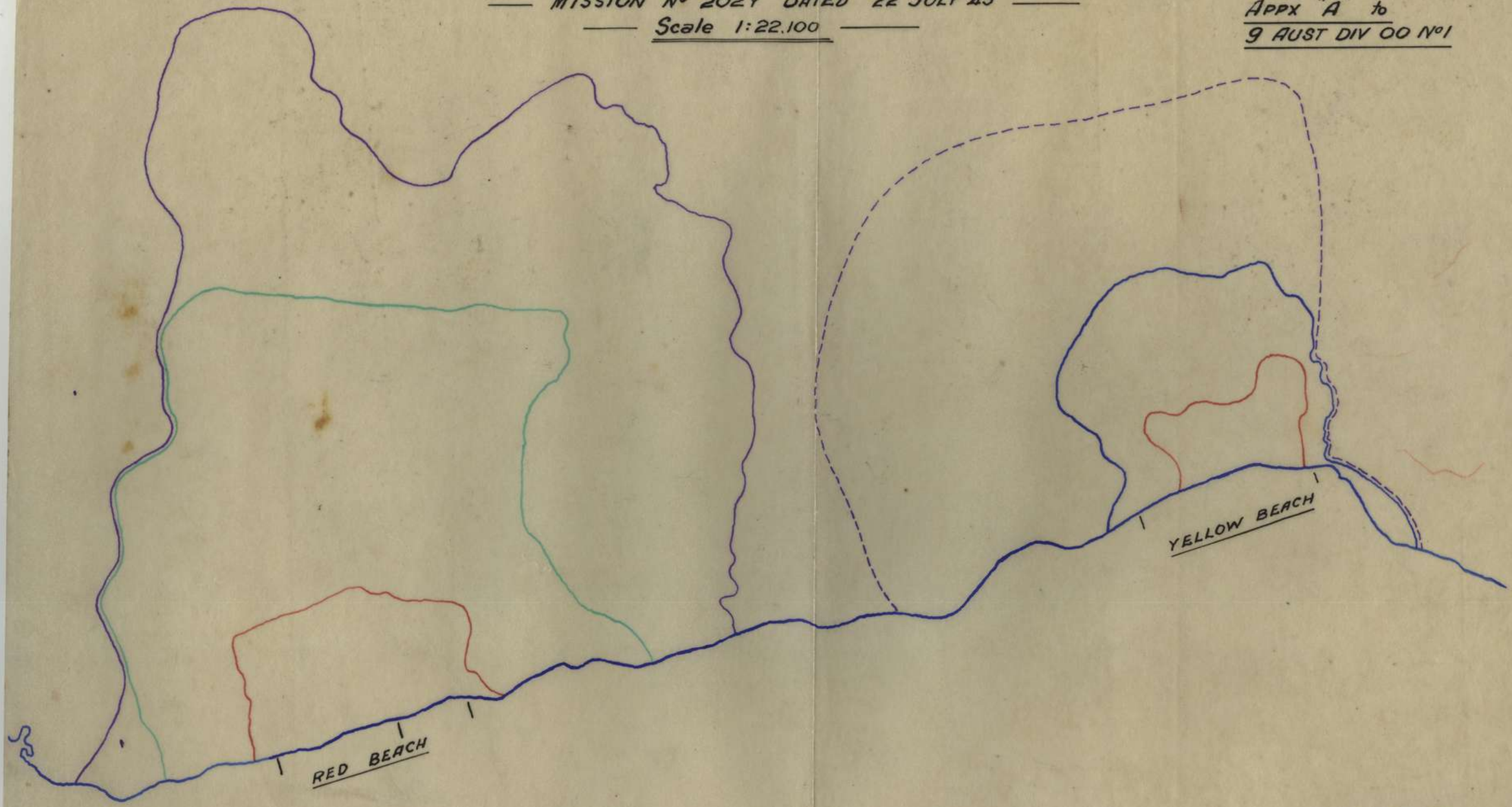
MOST SECRET.

Appx "A" to
9 AUST DIV OO No 1

OVERLAY for MAP COMPILED from AIR-PHOTOS

MISSION No 202Y DATED 22 JULY 43

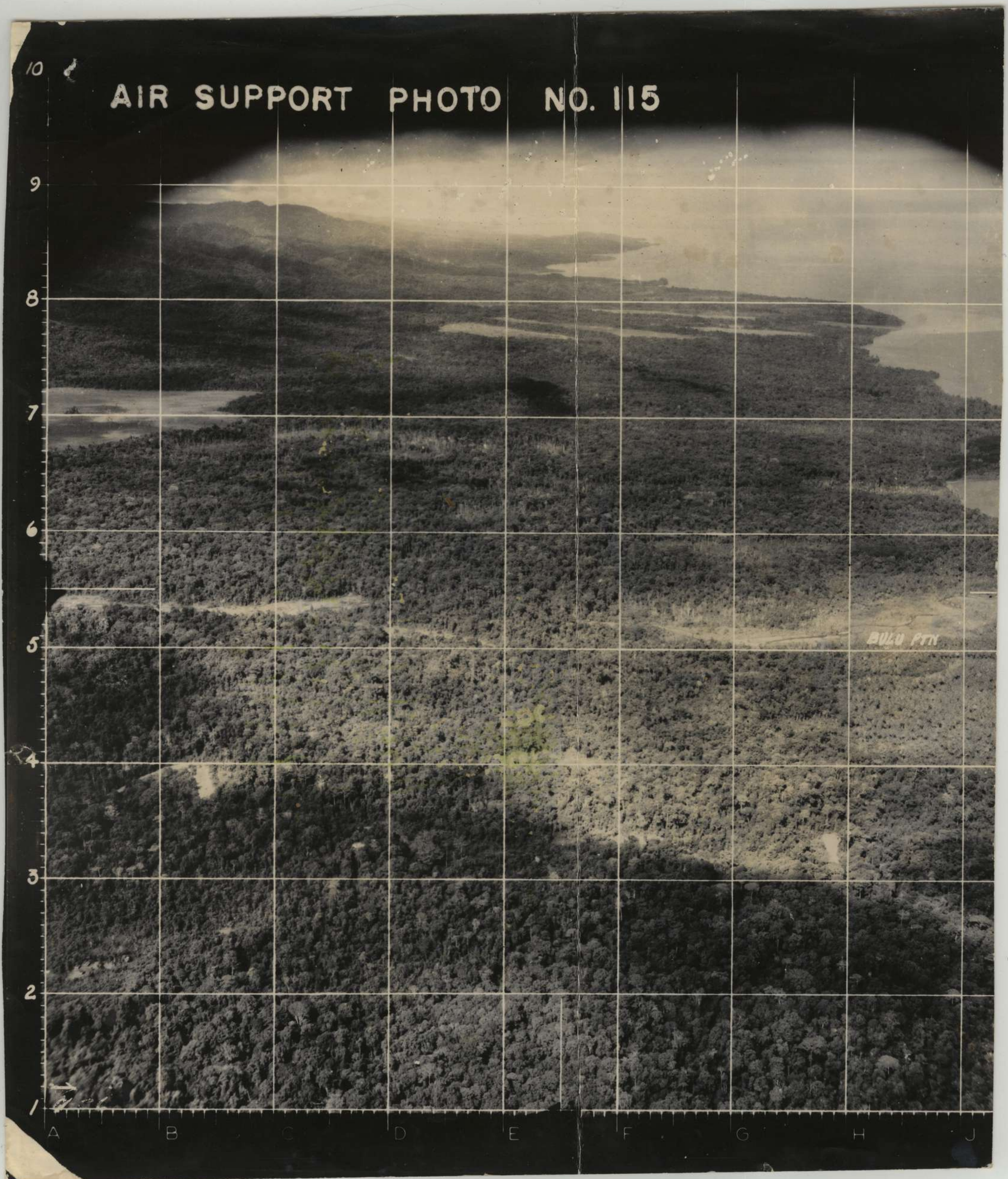
Scale 1:22.100



LEGEND		CODE NAME FOR REPORTING CAPTURE
	RED BEACH	"ALAMEIN"
	1ST OBJECTIVE	"BARDIA"
	2ND OBJECTIVE	"TOBRUCH"
	3RD OBJECTIVE	"BENGHASI"

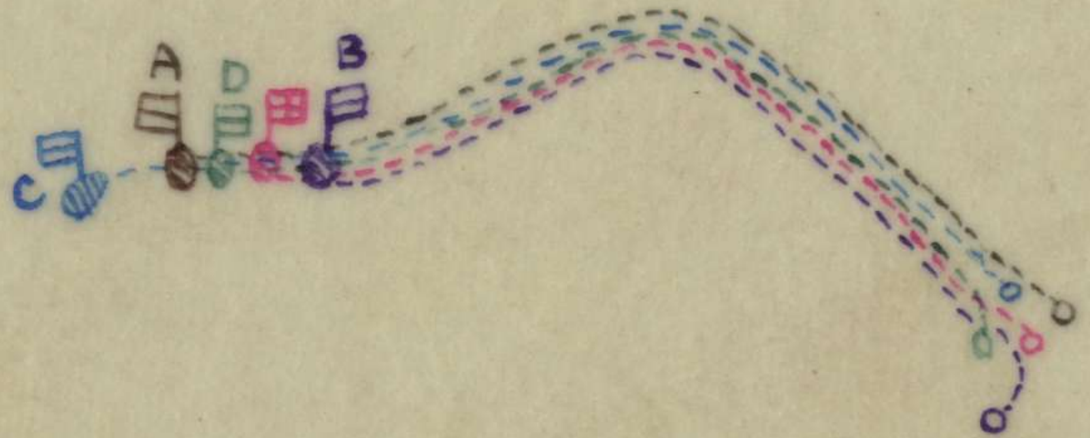
LEGEND	CODE NAME for REPORTING CAPTURE
YELLOW BEACH	"EL DUDA"
FIRST (2/13 Bn) OBJECTIVE	"KOKODA"
{BLUE LINE for EXPLOITATION by FIRST Bn (2/13 Bn) or ALTERNATIVE SECOND DIV OBJECTIVE	"GIARABUB"
ALTERNATIVE THIRD DIV OBJECTIVE	"SYRIA"

AIR SUPPORT PHOTO NO. 115



Trace 12

SEP 16
Ref Map
LAE
1:63360



41

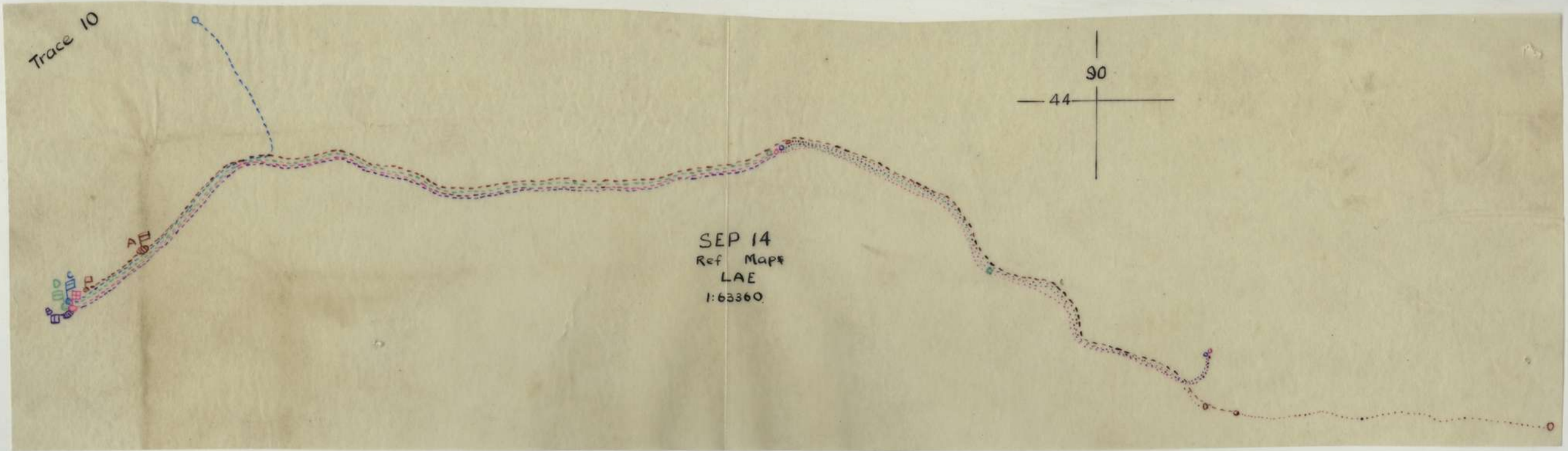
76

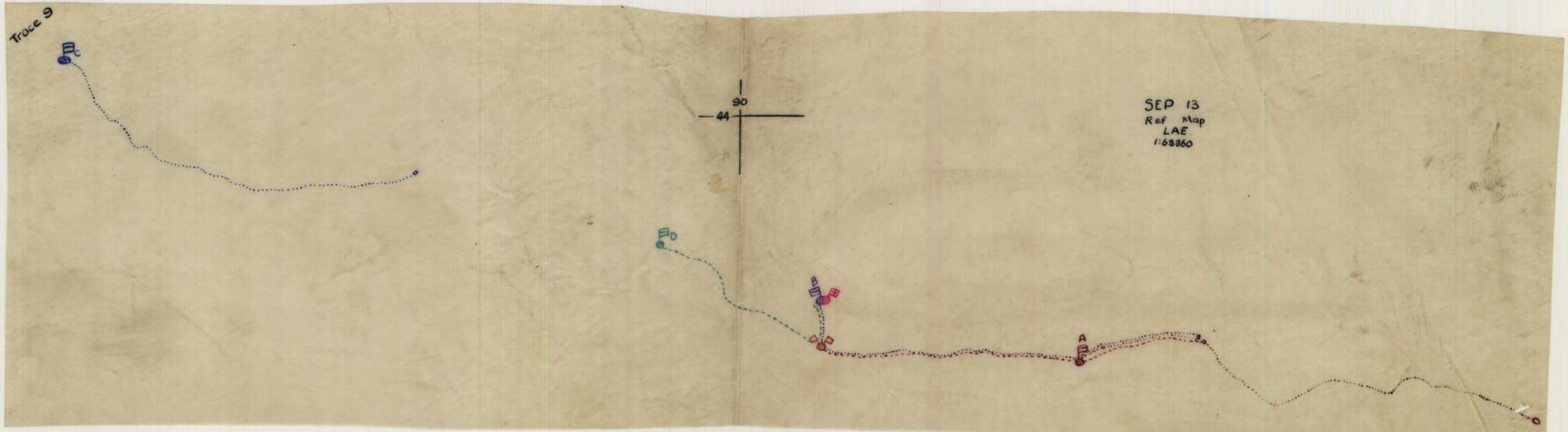
Trace 11

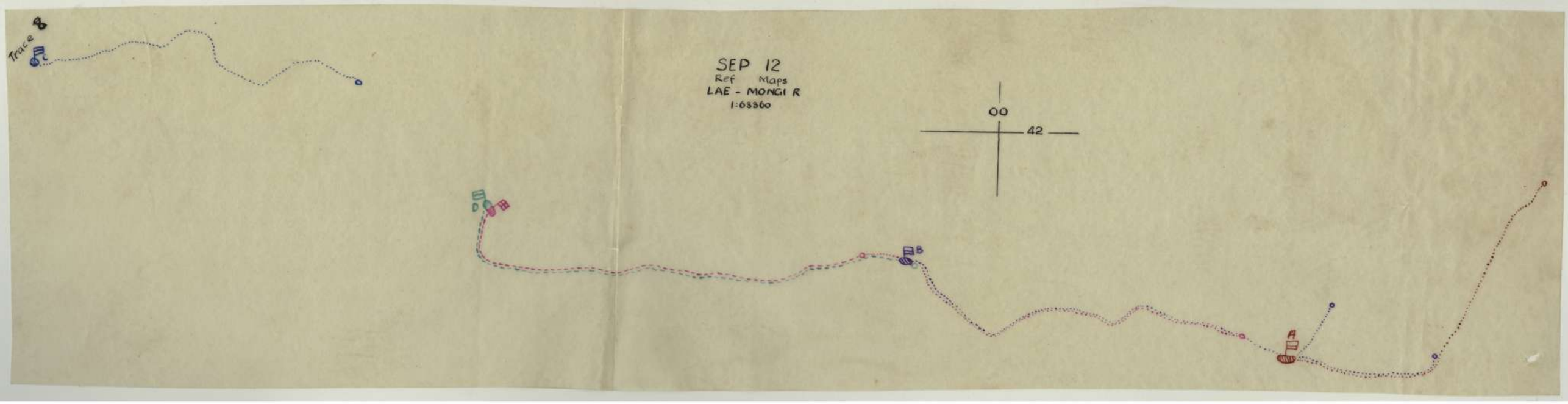
76

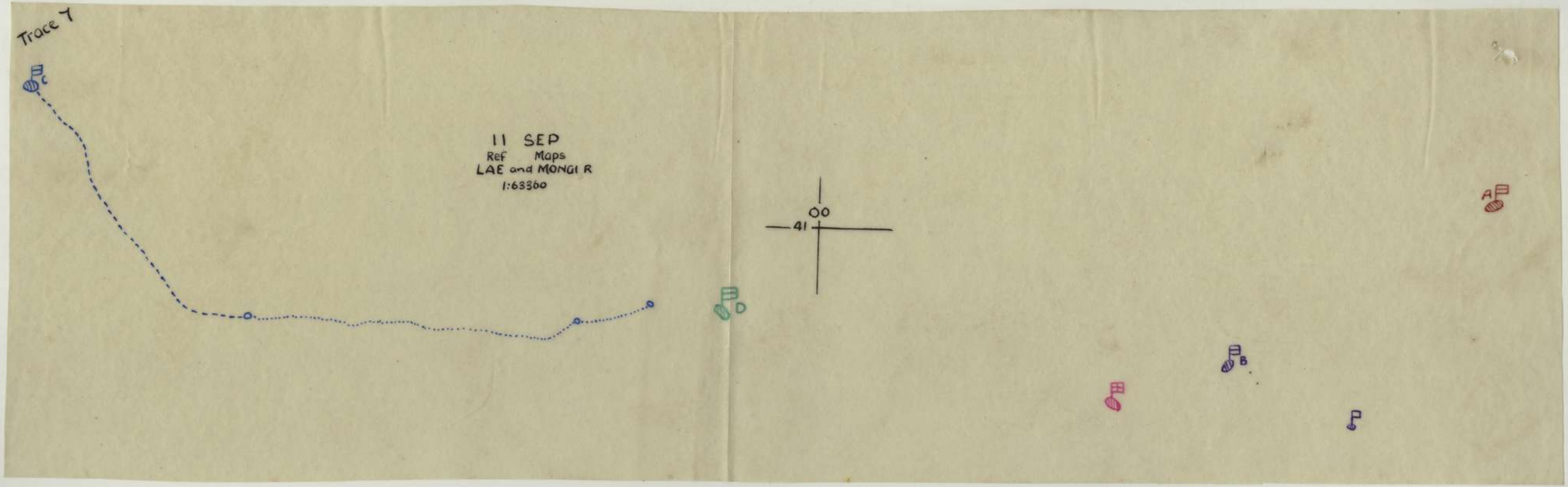
43

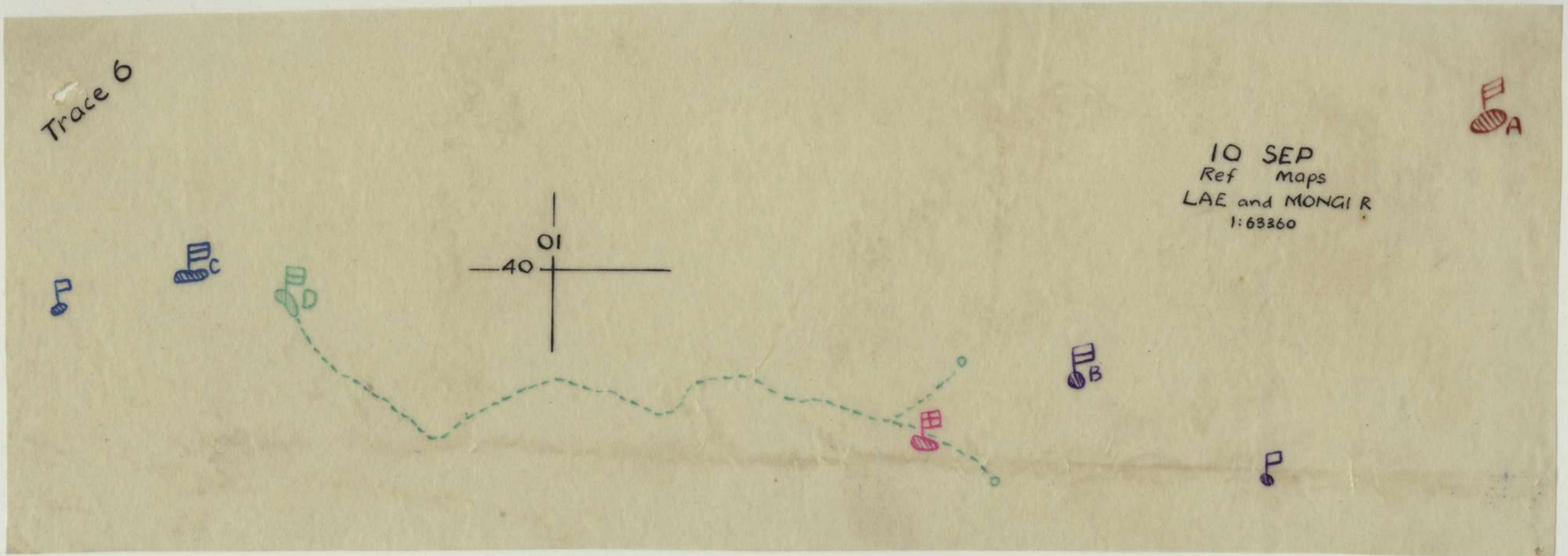
SEP 15
Ref Map
LAE
1:63360



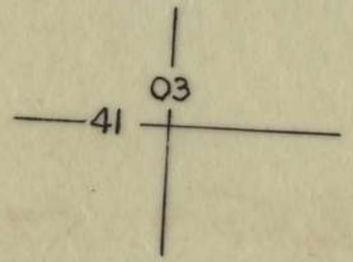








Trace 4

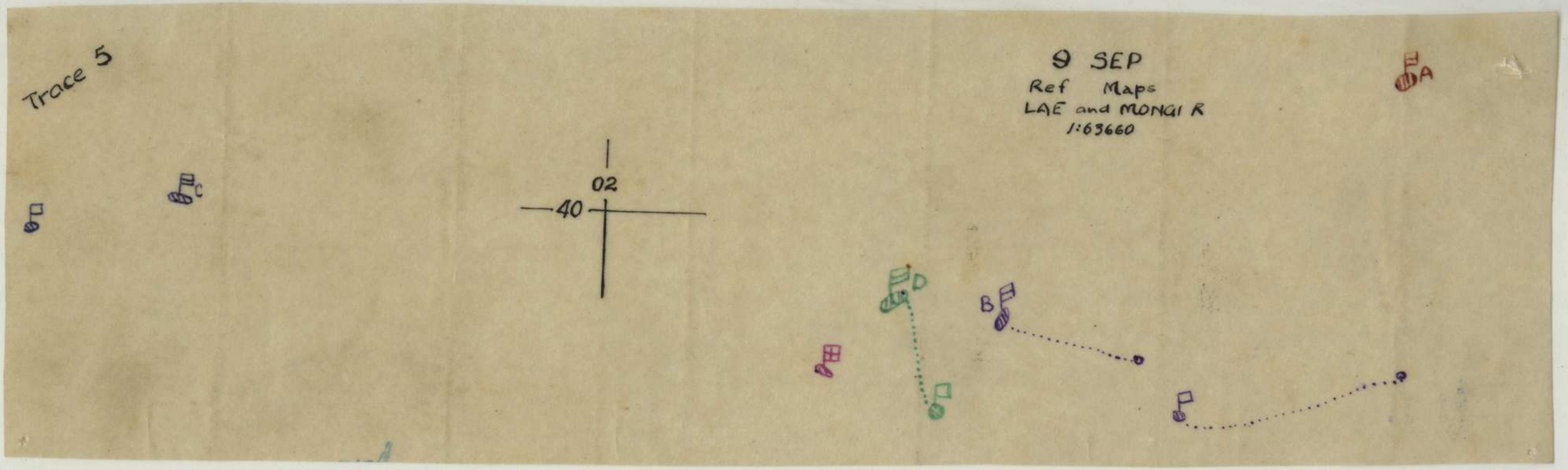


7 SEP

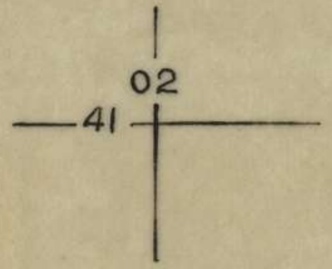
Ref Maps
LAE and MONGIR.
1:63360.

8 SEP

Patrol activity
only.



Trace 3

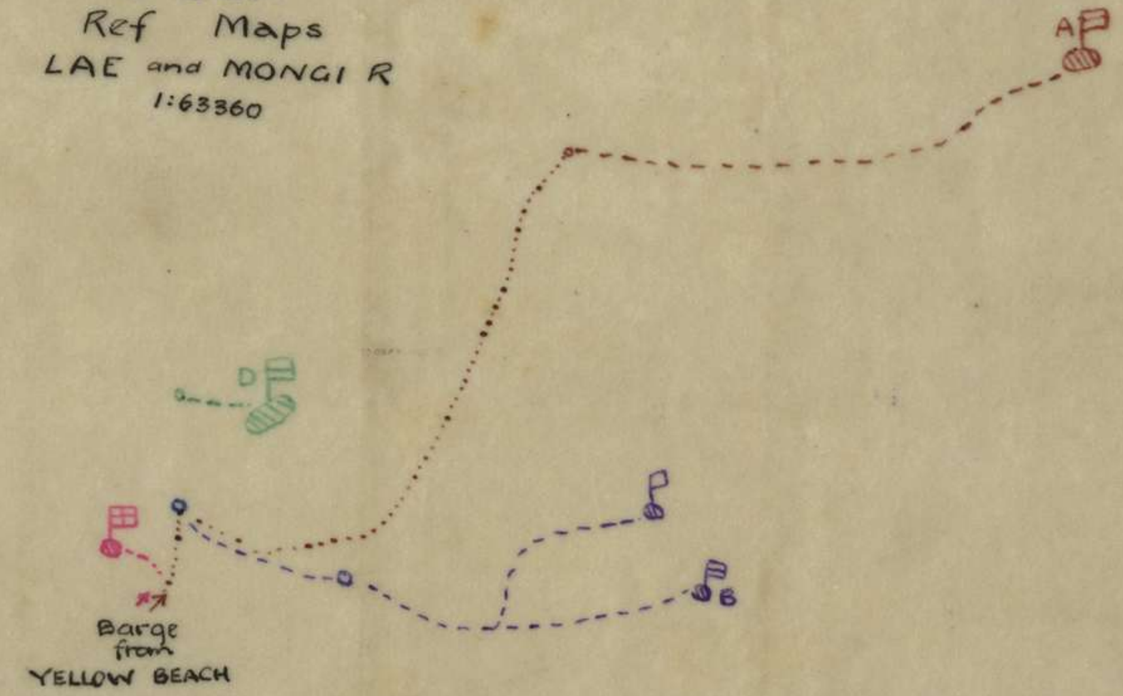


6 SEP

Ref Maps

LAE and MONGI R

1:63360



Trace 2

00

42

A

5 SEP

Ref. Map LAE

1:63360

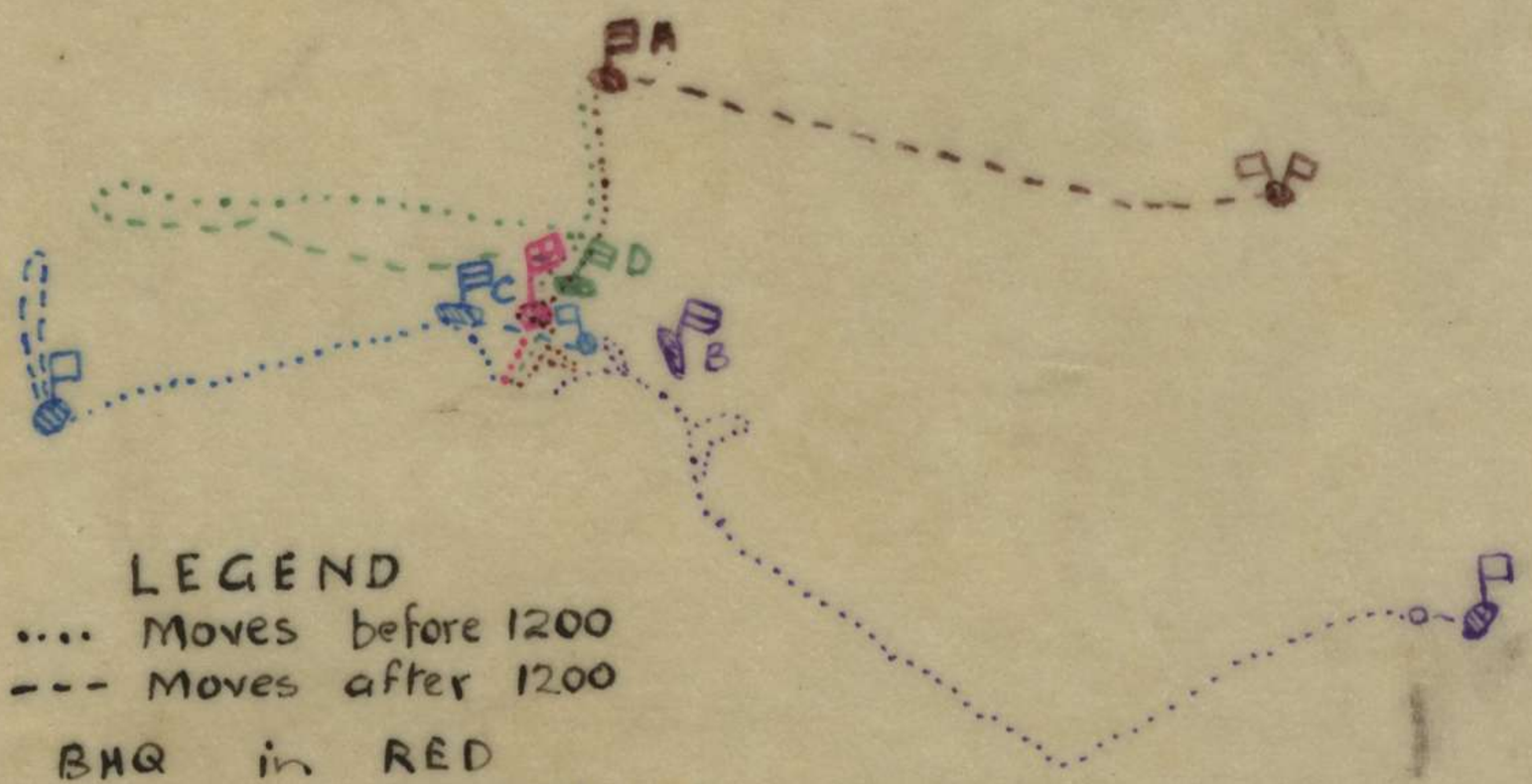
Trace 1

01

44

MOVEMENTS
4 SEP.

Ref Map LAE
1:63360



LEGEND

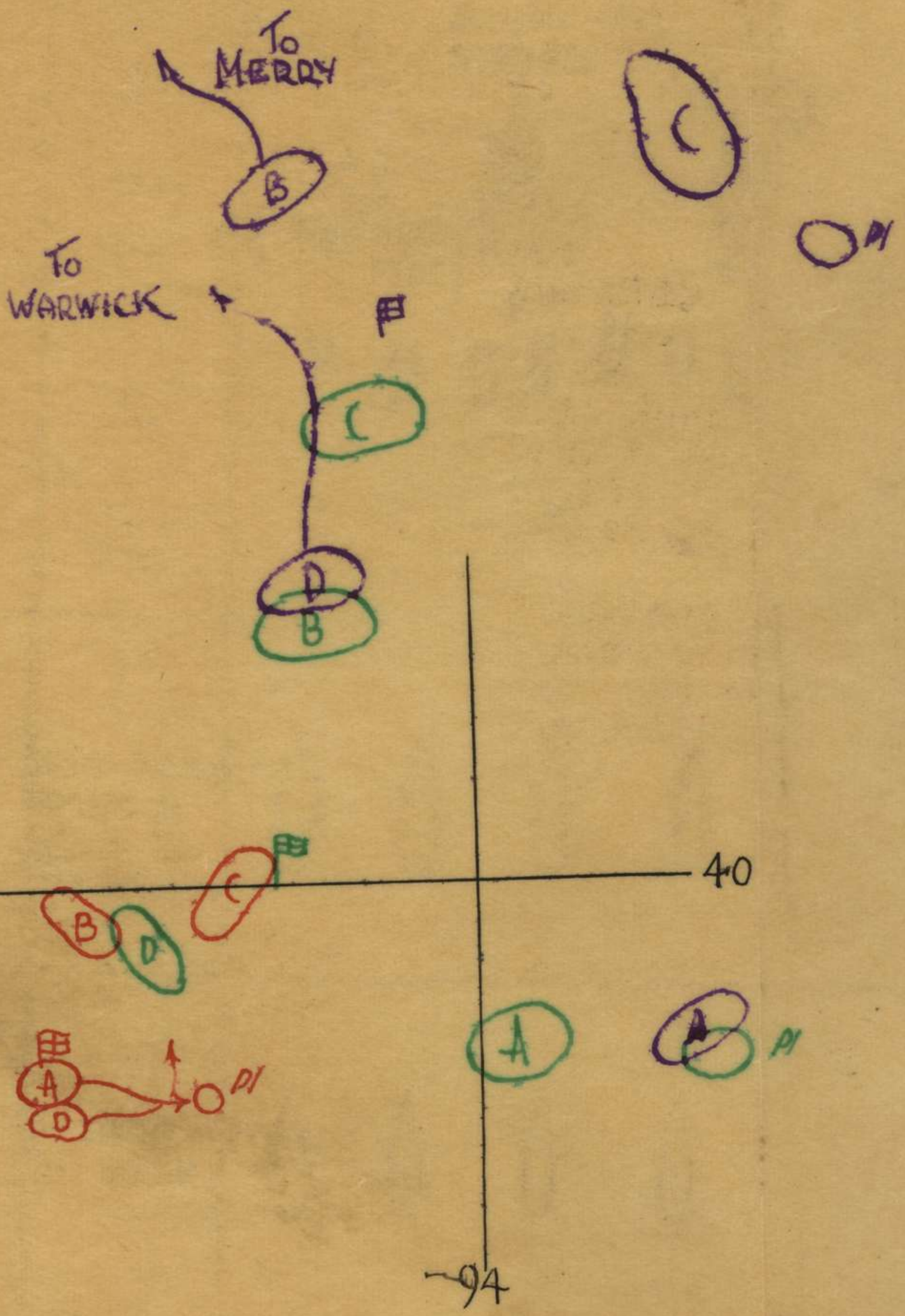
.... Moves before 1200

--- Moves after 1200

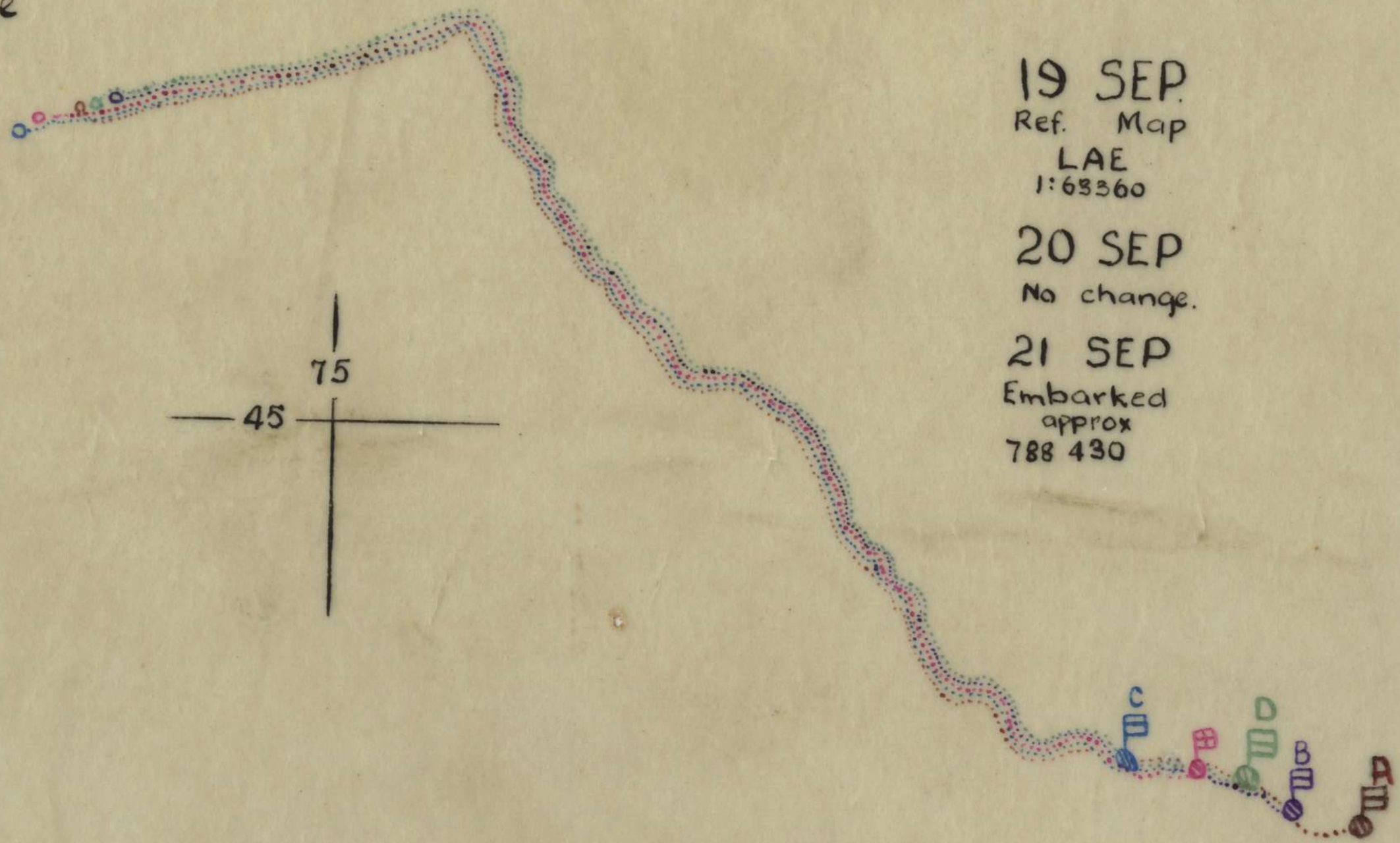
BHQ	in	RED
A Coy		BROWN
B		VIOLET
C		BLUE
D		GREEN

Bivouac Areas shaded.

APPX 'A'
2/15 AUST INF BN
OO N°5
OBJECTIVE TRACE
REF MAP: 1:25000



Trace 14.



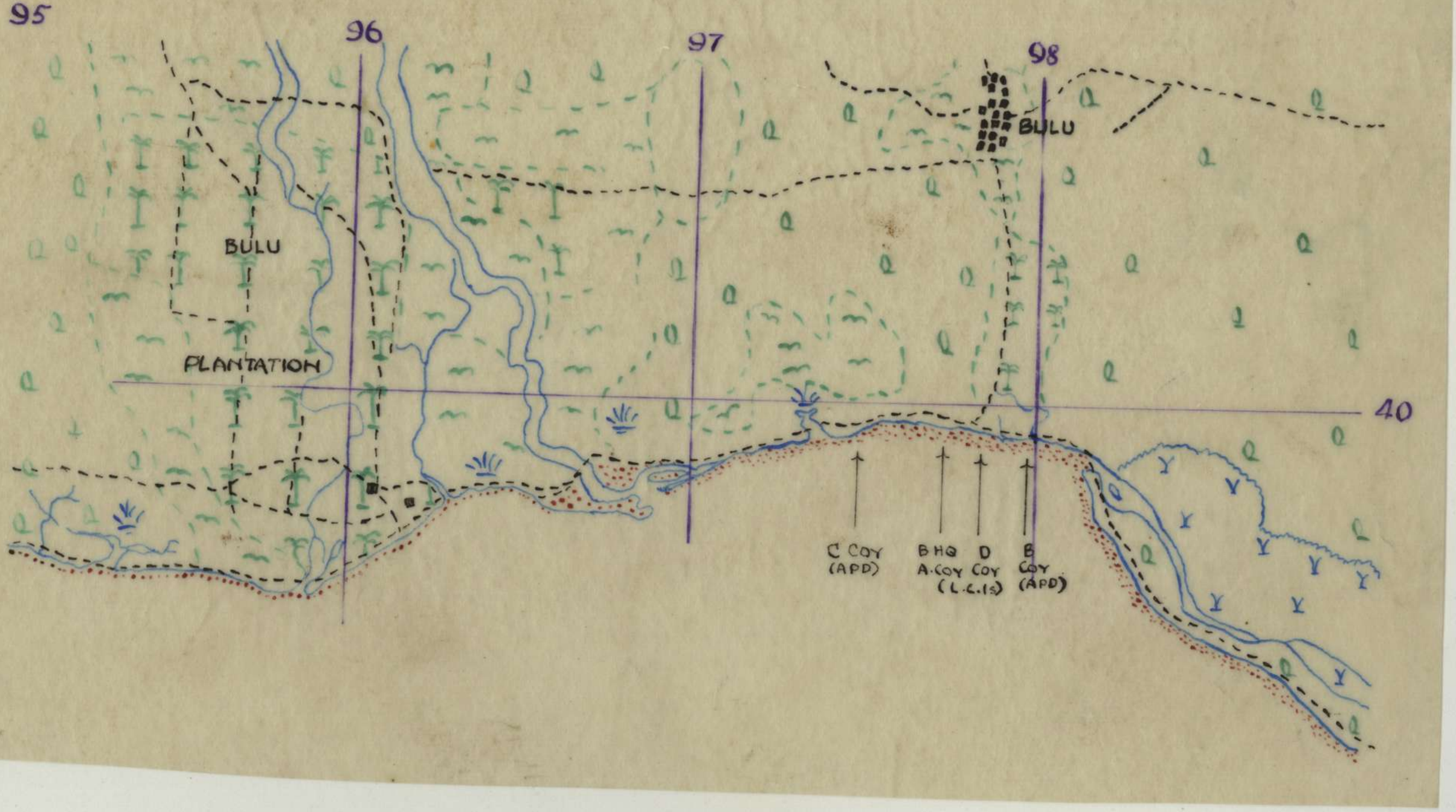
19 SEP
Ref. Map
LAE
1:63360

20 SEP
No change.

21 SEP
Embarked
approx
788 430

2/13 Bn. LANDINGS
4 SEPT 1943

Ref Map
BUSO 1:25000



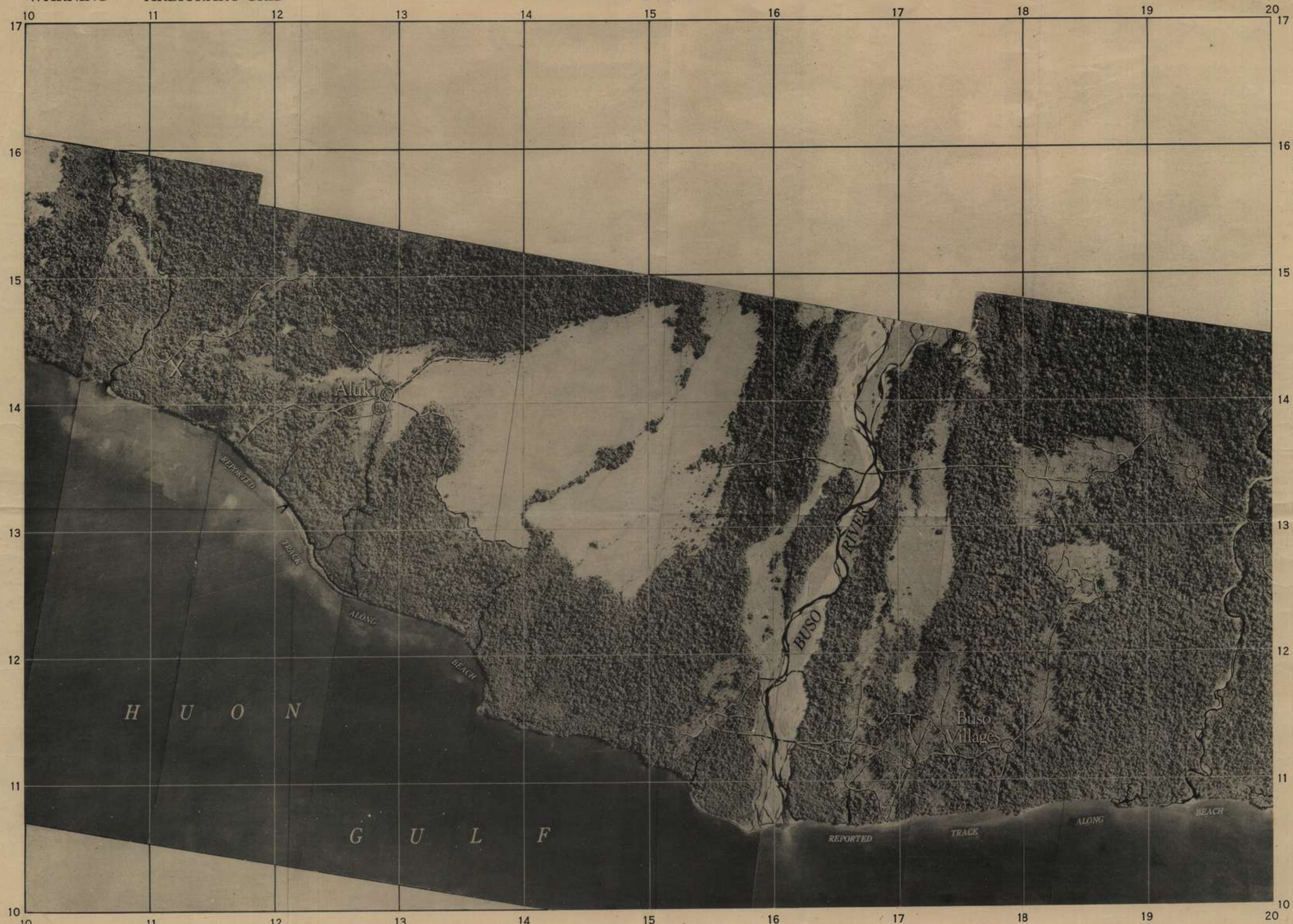
"A"
Intelligence Summary No. 82
Headquarters Allied Air Forces

PHOTOMAP — BUSO RIVER

NEW GUINEA

REFER TO THIS MAP AS
PHOTOMAP 0344 BUSO RIVER

WARNING — ARBITRARY GRID



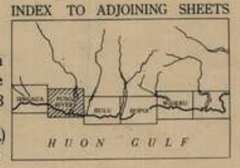
Scale 1:20,000 *(Approx)*

ADV/803/0344

AIR PHOTOGRAPHY: By 8th Photo. Squadron 5th. Air Force Mission 202-Y Jul 43

COMPILATION & REPRODUCTION: 1 Aust. Mob. Litho. Sec. (A.I.F.) Aust. Svy. Corps Aug 43

INDEX TO ADJOINING SHEETS



Mile 1 ¾ ½ ¼ 0 ½ 1 Mile

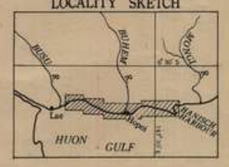
Yards 1000 800 600 400 200 0 1000 2000 Yards

Metres 1000 800 600 400 200 0 1 2 Kilometres

Main Track (Black or White) ——
Other Track (Black or White) – – –
Probable Track (Black or White) – – – –

CAUTION: *Photo joins in mosaic may appear as lines and adjoining prints of different tones should not be interpreted as changes in vegetation.*

LOCALITY SKETCH



TO GIVE A GRID REFERENCE TO THIS SHEET			
POINT	X		
East — Take west edge of square in which point lies and read the figures printed opposite this line on north or south margin. Estimate tenths eastwards	11 2	North — Take south edge of square in which point lies and read the figures printed opposite this line on east or west margin. Estimate tenths southwards	14 3
FULL REFERENCE	112 143		
Unit ..... Metre	Square 1000	Reference to nearest 100	

WAR DEPARTMENT
CORPS OF ENGINEERS, U. S. ARMY

PRELIMINARY SHEET
Subject to correction

PROVISIONAL MAP

For use by
War and Navy Department Agencies only
Not for Sale or distribution

MONGI RIVER

B 55/11

NORTHEAST NEW GUINEA

Prepared under the direction of the Chief Engineer, USAFFE.
Control from A. D. Survey, N G F. Feb and Mar 1943.
Photography by 8th Photo Sq. 5th Air Force, U. S. Army.
Mission 8CH-8TO Dec 1942.
Prepared and reproduced by Base Map Plant, USAFFE. Apr 1943
Topography from vertical and oblique photographs, using tri-metrogon plotting and Fairchild Stereocomparagraph.
Lambert Conical Orthomorphic Projection.

RED OVERPRINT FROM INFORMATION SUPPLIED BY NEW GUINEA FORCE

NOTE:
All underwater obstructions not necessarily shown.

CAUTION:
This map was produced from aerial photographs. Due to lack of accurate ground control, distances scaled on this map may be at variance with actual ground distances.

LEGEND

Good motor roads	
Secondary roads	
Trails	
Trails, probable	
Streams, intermittent	
Streams, probable	
Swamps	
Woods	
Plantations	
Mangroves	
Form Lines, interval approx 100 ft	
Underwater obstruction	
Emergency landing ground	E L G
Triangulation point	△

Scale $\frac{1}{63360}$ (Approx) or 1 inch equals 1 mile

"WARNING: FORM LINES ONLY, NOT CONTOURS"

NOTE: OFFICERS USING THIS MAP WILL MARK HEREON CORRECTIONS AND ADDITIONS WHICH COME TO THEIR ATTENTION AND MAIL DIRECT TO "THE CHIEF ENGINEER, USAFFE, APO 501."

0°21′ E or 6 Mils — 6°20′ E or 113 Mils
True North — Mag North

Approximate mean declination 1940.
Annual magnetic increase 3′

INDEX TO SHEETS

MT SALAWAKET	KULUNG-TUFU	MASAWENG RIVER
LAE	MONGI RIVER	FINSCH-HAFEN
HUON GULF		

REPRODUCED JOINTLY BY BASE MAP PLANT, USAFFE AND A. H. Q. CARTOGRAPHIC CO., AUGUST, 1943

1000 METER MODIFIED BRITISH GRID SYSTEM
SOUTHERN NEW GUINEA ZONE
Origin of grid: Lat 6°S Long 150°E, whose coordinates are X=2,000,000 M and Y=1,000,000 M
To give the coordinates of a point use only larger figures on the grid lines, and add estimated tenths of kilometers.
The small numbers at the corners are the full coordinates referred to the origin of the grid zone.
Nearest similar reference on this grid is 500 km distant.
ALWAYS indicate grid letter in giving a reference on this grid.

MONGI RIVER

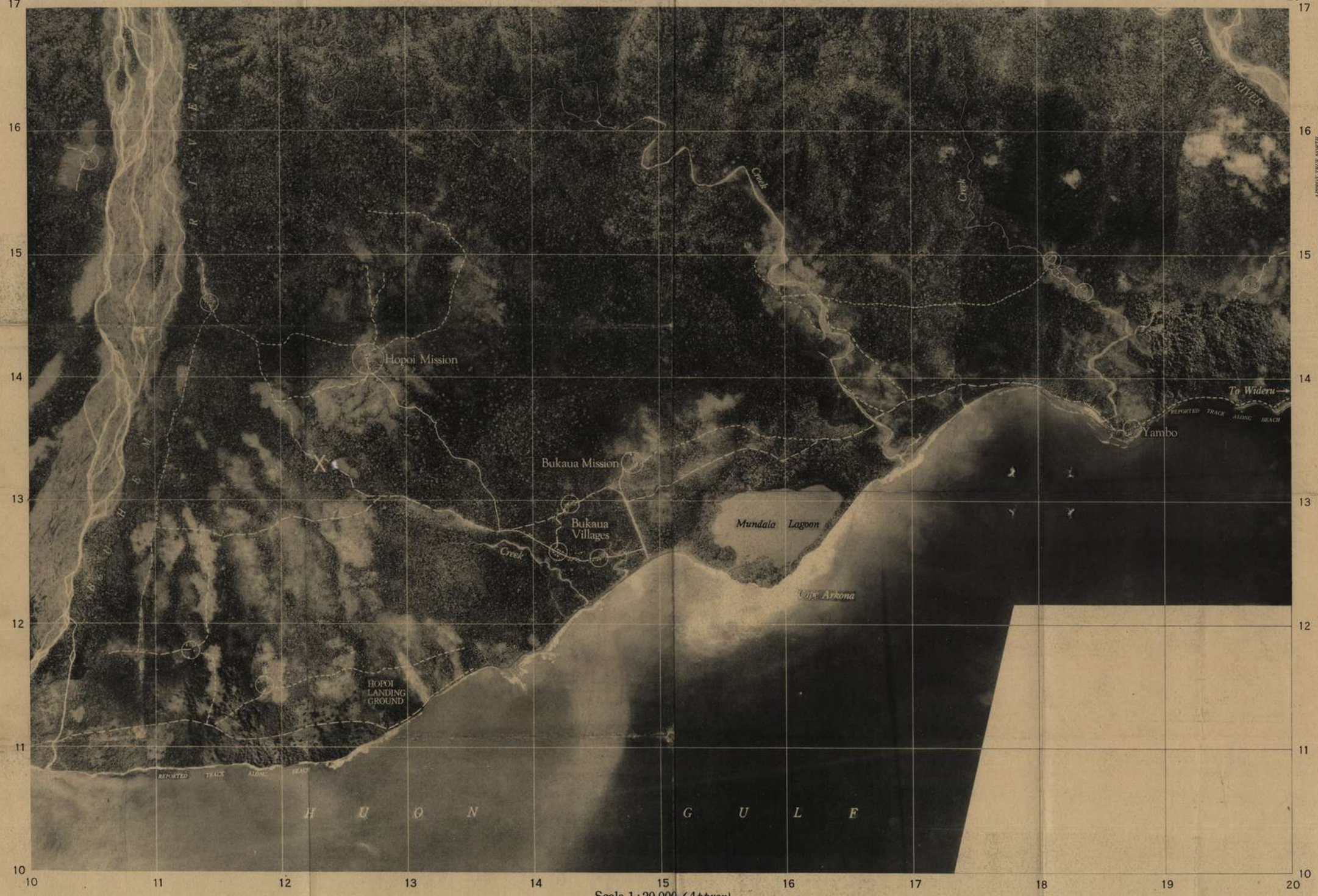
S630-E14720/15X20

PHOTOMAP — HOPOI

NEW GUINEA

WARNING — ARBITRARY GRID

REFER TO THIS MAP AS
PHOTOMAP 0346 HOPOI



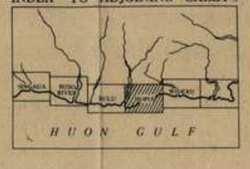
Scale 1 : 20,000 *(Approx)*

ADV/803/0346

AIR PHOTOGRAPHY: By 8th Photo. Squadron, 5th. Air Force
Mission 97-B Nov 42
202-Y Jul 43
222-Y Aug 43

COMPILATION & REPRODUCTION: 1 Aust. Mob. Litho. Sec. (A.I.F.) Aust. Svy. Corps Aug 43

INDEX TO ADJOINING SHEETS

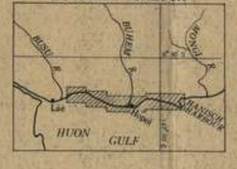


Mile — Yards — Metres — Kilometres

Main Track (Black or White) .....
Other Track (Black or White) .....
Probable Track (Black or White) .....

CAUTION: *Photo joins in mosaic may appear as lines and adjoining prints of different tones should not be interpreted as changes in vegetation.*

LOCALITY SKETCH



TO GIVE A GRID REFERENCE TO THIS SHEET

POINT	×		
East: Take west edge of square in which point lies and read the figures printed opposite this line on north or south margin. Estimate tenths eastwards	12 3	North: Take south edge of square in which point lies and read the figures printed opposite this line on east or west margin. Estimate tenths northwards	13 3

FULL REFERENCE 123 133

Unit Metre Square 1000 Reference to nearest 100

PHOTOMAP — BULU

NEW GUINEA

WARNING — ARBITRARY GRID

REFER TO THIS MAP AS
PHOTOMAP 0345 BULU

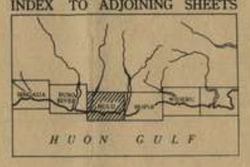
Scale 1 : 20,000 *(Approx)*

ADV/803/0345

AIR PHOTOGRAPHY: By 8th Photo. Squadron
5th. Air Force
Mission 97-B Nov 42
202-Y Jul 43
222-Y Aug 43

COMPILATION & REPRODUCTION: 1 Aust. Mob. Litho. Sec. (A.I.F.)
Aust. Svy. Corps Aug 43

INDEX TO ADJOINING SHEETS



Mile 1 ¾ ½ ¼ 0 ½ 1 Mile
Yards 1000 800 600 400 200 0 1000 2000 Yards
Metres 1000 800 600 400 200 0 1 2 Kilometres

Main Track (Black or White) ——
Other Track (Black or White) — — —
Probable Track (Black or White) - - - -

CAUTION : *Photo joins in mosaic may appear as lines and adjoining prints of different tones should not be interpreted as changes in vegetation.*

LOCALITY SKETCH

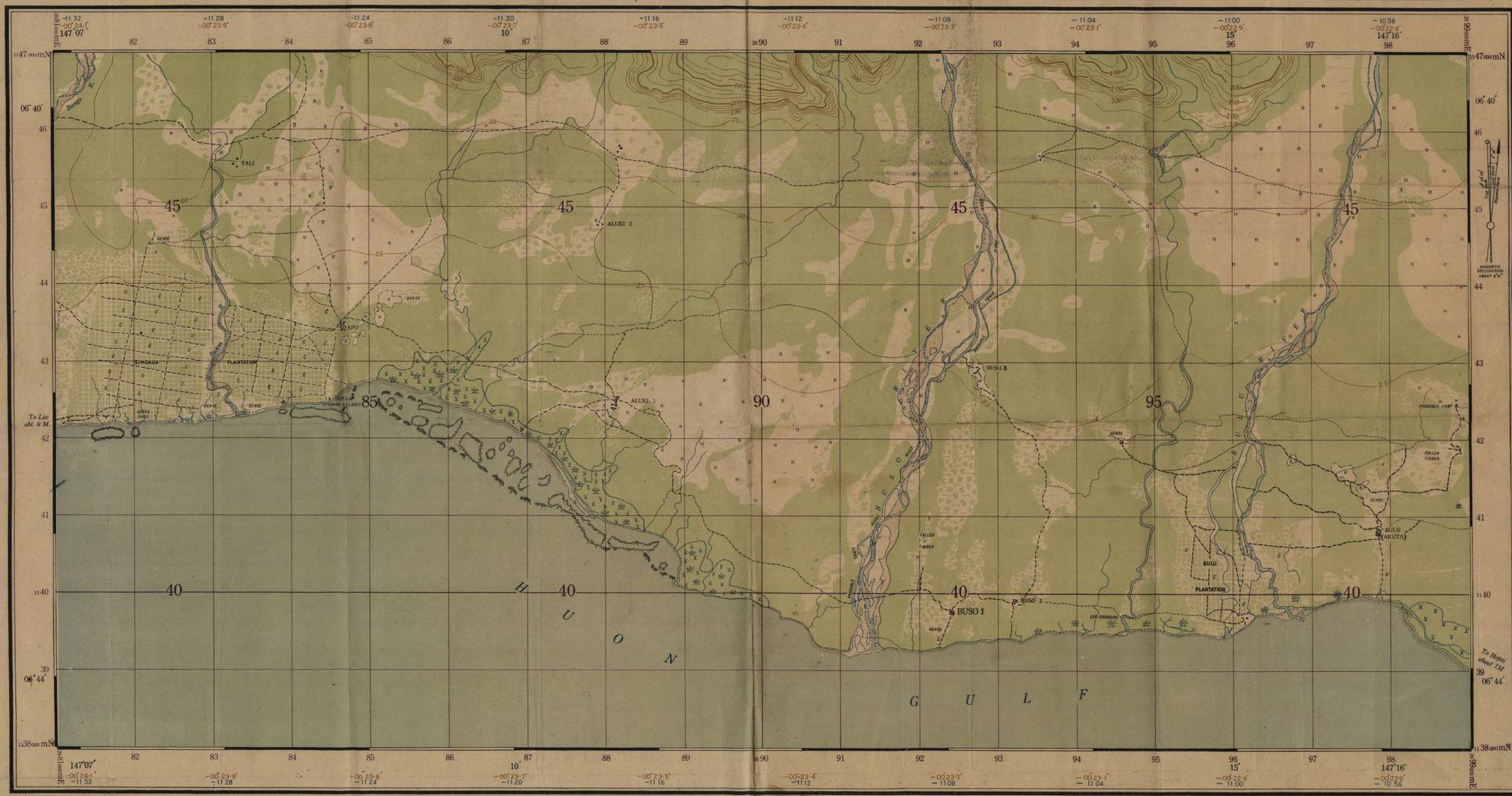
TO GIVE A GRID REFERENCE TO THIS SHEET			
POINT	X		
East — Take west edge of square on which point lies and read the figures printed opposite this line on north or south margin. Estimate tenths eastward.	12 3	North — Take south edge of square on which point lies and read the figures printed opposite this line on east or west margin. Estimate tenths northward.	13 3
FULL REFERENCE	123 133		
Unit — Metre	Square — 1000	Reference to nearest 100	

NETHERLANDS EAST INDIES GRID
SOUTHERN NEW GUINEA ZONE

NEW GUINEA
BUSO

WARNING
GRID ON THIS MAP DOES NOT AGREE WITH GRID SHOWN
ON LAE 1 INCH TO 1 MILE PROVISIONAL EDITION

REFER TO THIS MAP AS
BUSO 3542 1:25,000 SERIES



N.G.F/703/3542

22 AUG 43

Bridge (road, except where shown otherwise)
Motor Road
Jeep Track
Foot Track
Reported Track
Telegraph Line
Airfield 2000 YDS
Sea Plane Base
Cemetery
Mission Station
Spot Height 261'
Grasslands

NOTE Form Lines are intended to indicate shape of hill features and should not be taken as contours. Heights are only approximate.

CONTROL	Extended from Lae and Heaths 1:25,000 Series to old German Astro-nomical Fixation at Salankaua with the aid of Air Photos.
PROJECTION:	Lambert Conical Orthomorphic
AIR PHOTOGRAPHY:	8th. Photo Squadron Fifth Air Force
MISSION:	SCH 97C 202Y PM 41
COMPILATION:	2/1 Aust. Army Topo. Survey Coy.
REPRODUCTION:	2/1 Aust. Army Topo. Survey Coy.

TO GIVE A GRID REFERENCE ON THIS SHEET
PAY NO ATTENTION TO THE SMALLER CO-ORDINATE FIGURES AT THE CORNERS AND IN MARGINS. THEY ARE FOR FINDING FULL CO-ORDINATES
PAY ATTENTION TO LARGER MARGINAL FIGURES AND TO THOSE PRINTED ON FACE OF THE MAP
POINT BUSO
EAST: Take west edge of square in which point lies and read the figures printed opposite this line at north or south margin or on the line itself on the face of the map. Estimate tenths eastwards. 92 4
NORTH: Take south edge of square in which point lies and read the figures printed opposite this line at east or west margin or on the line itself on the face of the map. Estimate tenths northwards. 39 8
924 398
REFERENCE 924398
UNIT METRE SQUARE 1000 REFERENCE TO NEAREST 100
NEAREST SIMILAR REFERENCE DISTANT 100 KILOMETRES

SCALE 1:25,000
MILE ¾ ½ ¼ 0 1 MILE
YARDS 1000 500 0 1000 YARDS
FORM LINE INTERVAL 50 FEET ABOVE 500 FEET, 25 FEET BELOW 500 FEET
SCALE IN METRES
KILOS 1 ½ 0 1 2 KILOS
METRES 1000 500 0 1000 2000 METRES
1 MILE = 1·60 KILOS 1 KILO = 0·62 MILES

The figures within the borders of this map are for artillery purposes. The brown figures denote convergence and the blue figures denote corrections in minutes and seconds of mean time.

Officers using this map are requested to make any necessary additions or amendments on the map itself and forward to A.D. Survey H.Q. N.G.F.

LOCALITY DIAGRAM
BOANA | MT. SALAWAKET | KULUNGTUFU
NADZAB | LAE | MONGI RIVER
WAGO

Reef
Trig. Stations and altitude — *First Class* 905', *Second* 652', *Third* 529', *Fourth* 202'
Astronomical Station
Native Garden
Native Village
Unidentified Native Village
Buildings
River or perennial Stream
Non perennial Stream
Fathom Line

Swamp (subject to inundation)
" (permanently inundated)
Spring Well, Waterhole
Mangroves
Dense Jungle Forest
Forest
Scattered Timber
Plantation (rubber, coconut)
Secondary Growth
Contours-Form Lines
Ridges
Cliffs

WAR DEPARTMENT
CORPS OF ENGINEERS, U. S. ARMY

PRELIMINARY SHEET
Subject to correction

PROVISIONAL MAP

For use by
War and Navy Department Agencies only
Not for sale or distribution

LAE
B 55/11
NORTHEAST NEW GUINEA

147°00' 05' 10' 15' 147°20' 6°30'

THIS AREA SKETCHY

Mubom
Wareniam
Munim
Tali
Aluki
Bulo
Aipo
Malahang Plantation
Kunkumin Village
MALAHANG AIRDROME 437
Emery's Plantation
Chinatown
LAE AIRDROME 363
Bulu Plantation
Aipo Fishing Village
Bingau Plantation

HUON GULF

RS

6°45' 40' 35'

LEGEND

Good motor roads
Secondary roads
Trails
Trails, probable
Streams, intermittent
Streams, probable
Swamps
Woods
Plantations
Mangroves
Form Lines, interval approx 100 ft
Underwater obstruction
Emergency landing ground — E L G
Triangulation point

Scale 1/63360 (Approx) or 1 inch equals 1 mile

"WARNING: FORM LINES ONLY, NOT CONTOURS"

NOTE: OFFICERS USING THIS MAP WILL MARK HEREON CORRECTIONS AND ADDITIONS WHICH COME TO THEIR ATTENTION AND MAIL DIRECT TO "THE CHIEF ENGINEER, USAFFE, APO 501."

0°24' E or 7 Mils — True North / Mag North — 0°20' E or 113 Mils

Approximate mean declination 1940, Annual magnetic increase 3'

INDEX TO SHEETS

BOANA	MT SALAWAKET	KULUNG-TUFU
NADZAB	LAE	MONGI RIVER
WAGO	HUON GULF	

146°40' 147°40' 6°15' 7°00'

Prepared under the direction of the Chief Engineer, USAFFE.
Control from A. D. Survey, N G F, Feb and Mar 1943.
Photography by 8th Photo Sq, 5th Air Force, U. S. Army.
Missions SOH-97D Dec 1942 and SOH-19Y Jan 1943.
Prepared and reproduced by Base Map Plant, USAFFE, Apr 1943.
Topography from vertical and oblique photographs, using tri-metrogon plotting and Fairchild Stereocomparagraph.
Lambert Conical Orthomorphic Projection.

RED OVERPRINT FROM INFORMATION SUPPLIED BY NEW GUINEA FORCE

NOTE:
All underwater obstructions not necessarily shown.

CAUTION:
This map was produced from aerial photographs. Due to lack of accurate ground control, distances scaled on this map may be at variance with actual ground distances.

REPRINTED BY BASE MAP PLANT USAFFE, AUGUST 1943

1000 METER MODIFIED BRITISH GRID SYSTEM
SOUTHERN NEW GUINEA ZONE

Origin of grid: Lat 8°S Long 150°E, whose coordinates are X=3,000,000 M and Y=1,000,000 M
To give the coordinates of a point use only larger figures on the grid lines, and add estimated tenths of kilometers. The small numbers at the corners are the full coordinates referred to the origin of the grid zone.
Nearest similar reference on this grid is 500 km distant. ALWAYS indicate grid letter in giving a reference on this grid.

LAE

S630 – E14700/15X20

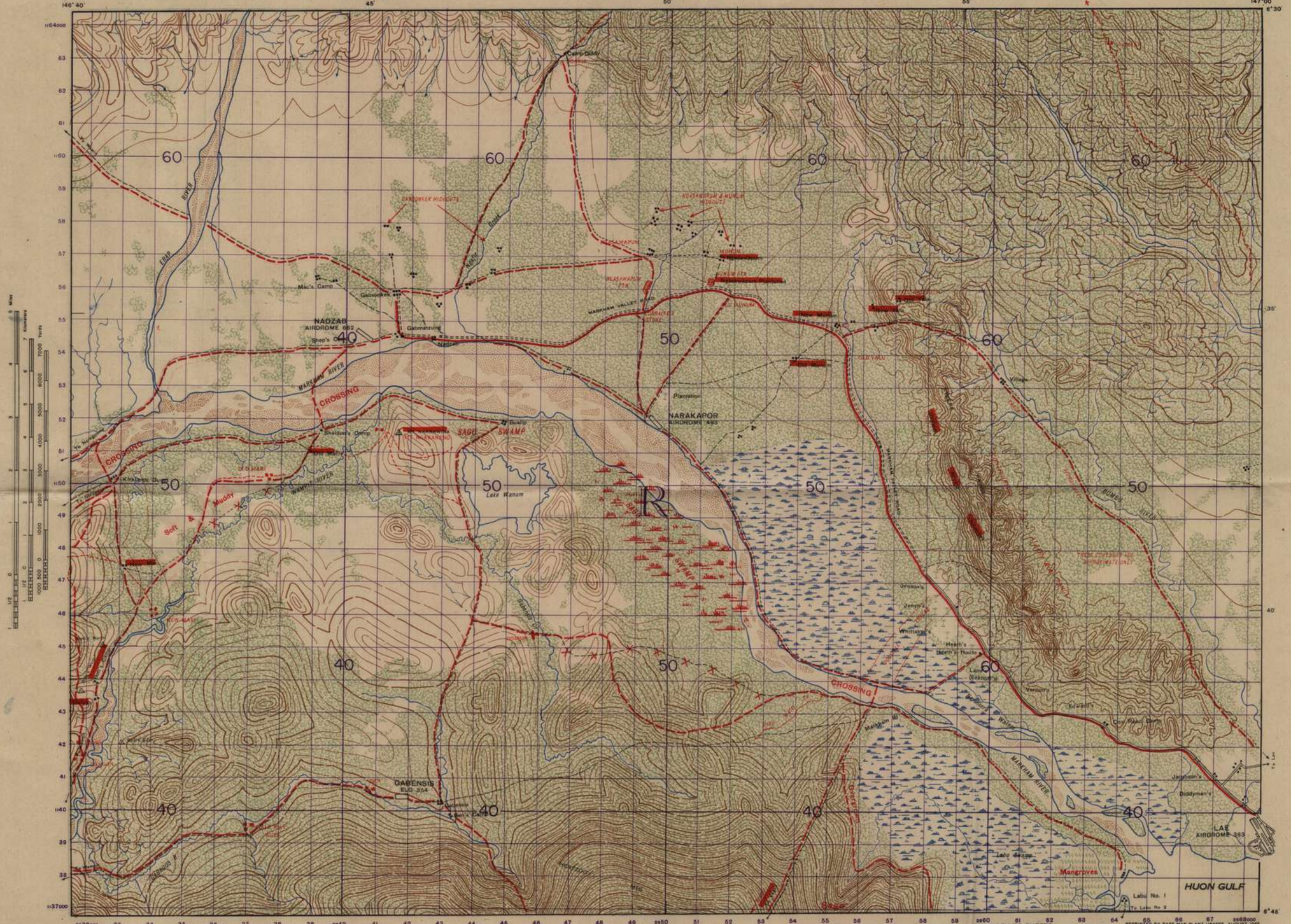
WAR DEPARTMENT
CORPS OF ENGINEERS, U. S. ARMY

PRELIMINARY SHEET
Subject to correction

PROVISIONAL MAP

For use by
War and Navy Department Agencies only
Not for Sale or distribution

NADZAB
B 55/10
NORTHEAST NEW GUINEA



Prepared under the direction of the Chief Engineer, USAFFE.
Control from A. D. Survey. N G F, Feb and Mar 1943.
Photography by 5th Photo Sq. 5th Air Force, U. S. Army.
Missions LAL-83S Oct 1942, 6CH-19Y Jan 1943 and AC-30X Jan 1943.
Prepared and reproduced by Base Map Plant, USAFFE, Apr 1943.
Topography from vertical and oblique photographs, using Multiplex plotting and Fairchild Stereocomparagraph.
Lambert Conical Orthomorphic Projection.

RED OVERPRINT FROM INFORMATION SUPPLIED BY NEW GUINEA FORCE

NOTE:
All underwater obstructions not necessarily shown.

CAUTION:
This map was produced from aerial photographs. Due to lack of accurate ground control, distances scaled on this map may be at variance with actual ground distances.

LEGEND

- Good motor roads
- Secondary roads
- Trails
- Trails, probable
- Streams, intermittent
- Streams, probable
- Swamps
- Woods
- Plantations
- Mangroves
- Form Lines, interval approx 100 ft
- Underwater obstruction
- Emergency landing ground — E L G
- Triangulation point

Scale 1/63360 (Approx) or 1 inch equals 1 mile

"WARNING: FORM LINES ONLY, NOT CONTOURS"
NOTE: OFFICERS USING THIS MAP WILL MARK HEREON CORRECTIONS AND ADDITIONS WHICH COME TO THEIR ATTENTION AND MAIL DIRECT TO "THE CHIEF ENGINEER, USAFFE, APO 501."

0°27' E or 8 Mils — True North — Mag North — 6°15' E or 111 Mils

Approximate mean declination 1940
Annual magnetic increase 3'

INDEX TO SHEETS

LERON	BOANA	MT SALAWAKET
WAIME	NADZAB	LAE
ROAMER	WAGO	HUON GULF

1000 METER MODIFIED BRITISH GRID SYSTEM

SOUTHERN NEW GUINEA ZONE

Origin of grid: Lat 8°S Long 150°E, whose coordinates are X=8,000,000 M and Y=1,000,000 M

To give the coordinates of a point use only larger figures on the grid lines, and add estimated tenths of kilometers. The small numbers at the corners are the full coordinates referred to the origin of the grid zone.

Nearest similar reference on this grid is 500 km distant. ALWAYS indicate grid letter in giving a reference on this grid.

NADZAB

S630 – E14640/15X20

REPRINTED BY BASE MAP PLANT USAFFE, AUGUST 1943