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547 Sig Tp
AFPO 4
GPO Sydney
NSW 2890
3 Jun 71

g/21/2c

MONTHLY ARDF REPORT

Enclosed are the ARDF reports for the period 01 - 31 May 1971 inclusive.

J.E. Fenton
(J.E. Fenton)
Capt
OC 547 Sig Tp

Amended to?
g/h
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FLYING HOURS FOR MAY 1971

<u>PERSONNEL</u>	<u>HOURS FLOWN</u>	<u>PROGRESSIVE TOTAL</u>
WO1 Russell	10:00	42:15
Sgt Howell	32:50	33:50
Sgt Abrahamson	13:45	226:45
Sig Hunter	34:30	137:15
Sig Simpson	34:15	85:20
Sig Arday	34:20	54:50
Total hours flown:	159:40	

Movement of Personnel

Sgt Abrahamson R&R 25 May 71. To main setroom ex R&R 02 Jun 71.

Reduced/Aborted missions due to inclement weather

9 May PM mission - reduced.
10 May AM mission - reduced
23 May PM mission - reduced
29 May AM mission (No 1) - reduced
29 May AM mission (No 2) - aborted.

Reduced/Aborted missions due to equipment/aircraft failure.

13 May AM mission - abort - equip malfunction
16 May PM mission - abort - equip malfunction
25 May PM mission - abort - equip/afet malfunction
26 May AM mission - abort - equip malfunction
26 May PM mission - abort - equip malfunction

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TESTS EMPLOYED AGAINST D445 and OTHER TARGETS

1. Because of the apparent sensitivity of D445, HQ BALONG, 3/33 Regt and to a lesser degree the other targets in our AO, the following systems have been tested and employed over the latter part of the month:

a. Varying heights of operation. This proved unsuccessful from 500-1500 feet as it entailed having to get too close to the target to obtain a workable picture. 1500 feet and above has proved satisfactory, although it was noticed that at 4000 feet there was a tendency to cut the sky wave rather than the ground wave of the target.

b. Varied target timings and varied runs. This involved the following methods. Only the apparent disadvantages of each method are mentioned.

(i) Standing off from the selected start point until the commencement of the sked, then flying through the start point to the finish point and leaving the area immediately.

Disadvantages:

There is no second run if the first run proves unsatisfactory.
Difficulty in determining an accurate finish point.

(ii) Flying two, three and four legs around the target, cutting the target on each leg as often as possible, and leaving the area immediately the final finish point has been passed.

Disadvantages:

Great difficulty in determining accurate start and finish points at the beginning and end of each run.

Too long in the target area.

Can lessen the time available to travel to the next target, which could be some distance away.

(iii) Early and late arrival at the target's location.

Disadvantages:

Brief activity of the target at sked time could result in a non fix.
Early arrival could alert the terminal and cause him not to meet his sked.

c. Decoy aircraft. A decoy aircraft is often employed to fly in the target area making runs similar to those of the ARDF aircraft, either before or after the ARDF aircraft has been in the area. This aircraft is also used in the area out of sked time and at irregular intervals as an added deception.

2. The following factors are taken into consideration in determining the above runs, a record of which are held by the SPO.

- a. The power of certain transmitters.
- b. The types of aerial systems employed if known.
- c. The terrain.
- d. The past reaction by targets to aircraft in their area.

3. It is yet too early to assess the value of these methods and whether the targets are at all deceived as to our intentions. However, it has been noticed that HQ BALONG seems to pay less attention to aircraft in the area than in the past.

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Break down of ARDF results

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DATE	TIME	IDENT	GOOD	FAIR	POOR	CUT	GRID REFERENCE	RADIUS
01 May	0032	B4165		X			YS563928	1000
	0745	M0094		X			YT582034	1000
02	00100	M0135				X	YT985154	0000
	0035	B4165	X				YS553878	0750
	0105	M0094		X			YT569023	1000
	0810	M0135		X			YT988176	1000
	0840	M1523		X			YS515939	1000
	2300	M1523	X				YS526903	0750
03	0005	M0084		X			YT361060	1000
	0037	B4165	X				YS543876	0500
	0210	M0094	X				YT604014	0500
	0805	M5908	X				YS306613	0500
	2305	M1523		X			Ye573925	2000
04	0213	M0094		X			YT578018	1500
	0645	M1523	X				YS535942	0750
05	0712	M0094		X			YT605038	1000
	0802	M5908		X			YS239614	1000
	0832	M1523		X			YS525920	1500
	0839	B4165		X			YS438964	2000
	2305	M1523		X			YS548927	1500
	2312	M0094		X			YT614051	2000
	2340	U/I		X			YS457964	2000
06	0035	B4165		X			YT475035	1500
	0155	E0809	X				YS525920	0500
	0706	M0094		X			YS583987	1000
	2306	M1523	X				YS525903	0750
07	0006	B4024		X			YS469484	2000
	0834	M1523	X				YS529886	0750
	2306	M1523		X			YS518955	1500
08	0036	B4165		X			YS422915	1000
	0815	M0135		X			YT097241	1000 (YT097241)
09	2308	M1523		X			YS520931	2000
10	0005	B4223		X			YS224875	1000
	0024	M0084		X			YS286963	1000
	0706	M0094		X			YS579979	2000
	2305	M1523		X			YS518922	1000
11	0003	B4888				X	YT748118	0000
	0203	M0094		X			YS619908	1000
	0735	E1427		X			YS822935	2000
	0825	M4000		X			YT288092	1500
	2306	M1523		X			YS576944	1500
12	0002	M0084		X			YS335995	1500
	0203	M0094		X			YS684991	1000
	0236	M5908		X		YS276604	2000	
	0736	E1427		X			YS820955	1500
	0905	B4024		X			Ye473518	1500
13	0740	E1427		X			YS826927	1500
	0907	B4024		X			YS463488	1500
14	0005	M0094		X			YT649014	1000
	0320	B5294		X			YS852926	1500
	0702	M0094		X			YT621022	1000
	2334	M0094		X			YT345022	1500

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DATE	TIME	IDENT	GOOD	FAIR	POOR	CUT	GRID REFERENCE	RADIUS
15	0012	B4223		X			YS194856	2000
	0037	B4165		X			YS498949	2000
	0106	M0094	X	X			YS639987	2000
	0140	E0809	X	X			YS520945	1500
	0836	M1523		X			YS532932	1500
16	0210	M0094		X			YT610027	1500
	0303	E0183		X			ZT017234	1500
	0336	E1427		X			YS855943	1000
	0405	B4024		X			YS465493	2000
17	0510	M0084		X			YT338019	2000
18	0710	M0094		X			YT658016	1000
	0910	B4024		X			YS478502	1500
19	0105	M0094		X			YT656012	1000
20	0735	E1427	X				YS861927	0750
	0835	B4165		X			YS453955	1500
	0907	B4024	X				YS469483	0750
21	0010	B4223		X			YS247891	1500
	0512	B4025		X			YT543214	1500
	2320	M1523		X			YS528918	1500
22	0735	E1427		X			YS853936	1000
23	10							
23	0136	E0809		X			YS555942	1500
	0110	P0569		X			YT813160	2000
	0238	U/I		X			YS858939	1000
24	0212	E0809		X			YS526935	2000
	0235	E1427		X		YS853932	1000	
	0810	M0093	X			YS417922	0750	
	1005	B4223		X		YS239874	1000	
	2305	M1523		X		YS544914	1500	
	2335	E1860			X	YT260205	0000	
25	0005	B4223		X		YS258867	2000	
	0050	U/I		X		YT691023	1500	
	2305	M0084		X		YS513942	0000	
	2335	M0084		X		YT329002	1000	
26	2333	M0084		X		YT289016	2000	
27	0010	B4888		X		YT566171	2000	
	0702	M0094		X		YT662023	1500	
	0805	E0809	X	X		YS508913	1500	
	0840	B4165	X			YS494954	0750	
	0905	B4024		X		YS485512	1000	
28	0135	E0809		X		YS544965	1500	
	0703	M0094		X		YT619028	1000	
	0740	E1427		X		YS855925	1000	
	0820	M4000	X	X		YT315059	0750	
29	0820	M0093		X		YS436905	2000	
	1010	B4223		X		YS205889	1000	
30	0810	M0093		X		YS395879	1000	
	0837	B4165		X		YS519933	2000	
	0908	B4024		X		YS494536	2000	
31	0003	M0135		X		YT583189	1500	

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SECRETGRADING OF BEARINGS (RADIOS)

GOOD	0500-0750 metres
FAIR	1000-2000 metres
POOR	2000- and over
CUT	Area indication only. Radius indicated by 0000

BREAK-DOWN OF RESULTS

GOOD	14
FAIR	83
POOR	--
CUTS	4
TOTAL	<u>104</u> (Last month total = 91)

(Note that the number of GOOD class cuts is down by a total of 11)

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