AVIATION STATE ENGAGEMENT FORUM	
NT AvSEF 2022	**Submission date: 26/05/2022**

TITLE	**ADF Activity – Exercise KAKADU 2022**
SUBMITTED BY	Maximilian Murphy – Joint Airspace Control Cell (JACC, RAAF) adf.airspace@defence.gov.au
CONSULTATION SUMMARY	To seek feedback on a proposed Temporary Restricted Area (TRA) to be declared in support of Exercise KAKADU 2022 – Northern Australia
KEY ISSUES	• Proposed TRA is required for separation of dynamic military aviation activities and civil aviation. • TRA activation windows. • Advice of military maritime and aviation activities in general exercise area. • Diversion routes likely to be required.
FEEDBACK TO	FOR ATTENTION: Maximilian Murphy – JACC: adf.airspace@defence.gov.au
CLOSE DATE	9 June 2022
ATTACHMENTS	Nil

OVERVIEW
Military Exercise KAKADU 2022 (KA22) is a major Navy-led joint international exercise incorporating a wide range of tactical flying activity across the northern Australian coast and waters over the period 12-25 September 2022.

To ensure public safety and meet exercises training objectives, temporary restricted airspace is required in addition to extant PRD in order to segregate civil and military activity. In addition, aviators should be advised that a higher density of military aviation is anticipated in an area north of Darwin.

In summary:
- Temporary restricted area (TRA) is proposed where dynamic military fast jet operations require civil exclusion to meet risk and safety requirements.
- Civil operators should be aware of the expected general area of operation in Class G airspace that will support maritime patrol aircraft and ship-borne rotary wing aviation activities.
- There will be a requirement for diversion routes around exercise airspace, to be published via AIP SUP.

Extant restricted airspace – The majority of military aviation activities are expected to occur in R264A-G and R230A-F. A map of the anticipated Restricted Area construct for KA22 can be seen in Figure 1. This includes a portion of R264EFG north of a line from 123413S 1303027E to 140300S 1283121E. The configuration of R264 is subject to change, with final configuration and timings to be published in the KA22 AIP SUP.

Temporary Airspace – In addition to extant military PRD, the following temporary restricted area is proposed:

TRA WHIPSNAKE
CONDITIONAL STATUS: RA2
MILITARY FLYING/NON-FLYING
LATERAL LIMITS: 112000S 1300658E - 102000 1291500E

093500S 1291500E - 090000S 1294500E – 090000S 1313600E
100100S 1322511E – 102414S 1322511E
then along the counter clockwise arc of a circle radius 150.00NM centre 122524S 1305423E (DN/DME) to 095444S 1305207E – 110502S 1305339E then along the counter clockwise arc of a circle radius 80.00NM centre 122524S 1305423E (DN/DME) to 112000S 1300658E
VERTICAL LIMITS: SFC – FL500
HOURS OF ACTIVITY: NOTAM
CONTROLLING AUTHORITY: FLTCDR 452SQN DAR

Airspace Activation – TRA WHIPSNAKE will be activated alongside R230BC at a minimum in order to facilitate dynamic military fast jet operations. The following indicative timings for activation of TRA WHIPSNAKE airspace are as per below, Table 1. As TRA WHIPSNAKE is only to be activated to facilitate dynamic military fast jet operations, the frequency of extant airspace activation for KA22 does not conform to the table below. Actual timings will be confirmed via AIP SUP and NOTAM.

KA22 Activation Windows – TRA WHIPSNAKE		
Fri 16 Sep 22	0730 – 1030 (local time – I/K)	2200 – 0100 (UTC time)
	1430 – 1900 (local time – I/K)	0500 – 0930 (UTC time)
Sat 17 Sep 22	0730 – 1130 (local time – I/K)	2200 – 0200 (UTC time)
	1230 – 1830 (local time – I/K)	0300 – 0900 (UTC time)
Sun 18 Sep 22	0800 – 1200 (local time – I/K)	2230 – 0230 (UTC time)
	1630 – 2130 (local time – I/K)	0700 – 1200 (UTC time)
Mon 19 Sep 22	0730 – 1130 (local time – I/K)	2200 – 0200 (UTC time)
	1300 – 1930 (local time – I/K)	0330 – 1000 (UTC time)
Fri 23 Sep 22	0800 – 1100 (local time – I/K)	2230 – 0130 (UTC time)
	1400 – 1700 (local time – I/K)	0430 – 0730 (UTC time)

Table 1: TRA WHIPSNAKE activation windows

Naval fleet and military aviation activity window – Exercise KA22 will see an increase in maritime patrol aircraft and ship-borne rotary wing operations in support of Royal Australian Navy and international naval vessels. Due to the expected unpredictability of naval ship manoeuvres and movement, fidelity of specific locations for maritime patrol aircraft and ship-borne rotary wing aviation activity cannot be provided at any given time during the exercise period.

The expected general area of operation in Class G airspace is found below; an accompanying outline can be seen in Figure 2, labelled as KAKADU TRAINING AREA.

16 – 23 September (202209152130 – 202209151700 UTC)
Area bounded by:
112000S 1300658E - 093058S 1283232E
090000S 1290000E - 090000S 1330000E
093800S 1330000E - 112050S 1314257E
then along the counter clockwise arc of a circle radius 80.00NM centre
122524S 1305423E (DN/DME) to 112000S 1300658E

Priorities and restricted area access – Non-exercise aircraft with a declared emergency or that are operating in the preservation of life or property (SAR, MEDEVAC, POL or FFR) will be afforded priority for access to the exercise airspace.

Aircraft conducting Border Force priority tasks shall expect clearance through exercise airspace, such as these flights are subject to minimum delay.

Diversion routes – Flight planning through KA22 Restricted Areas will not be permitted for the duration of the exercise. Civil diversion routes are yet to be determined, to be published via AIP SUP in consultation with Airservices Australia.

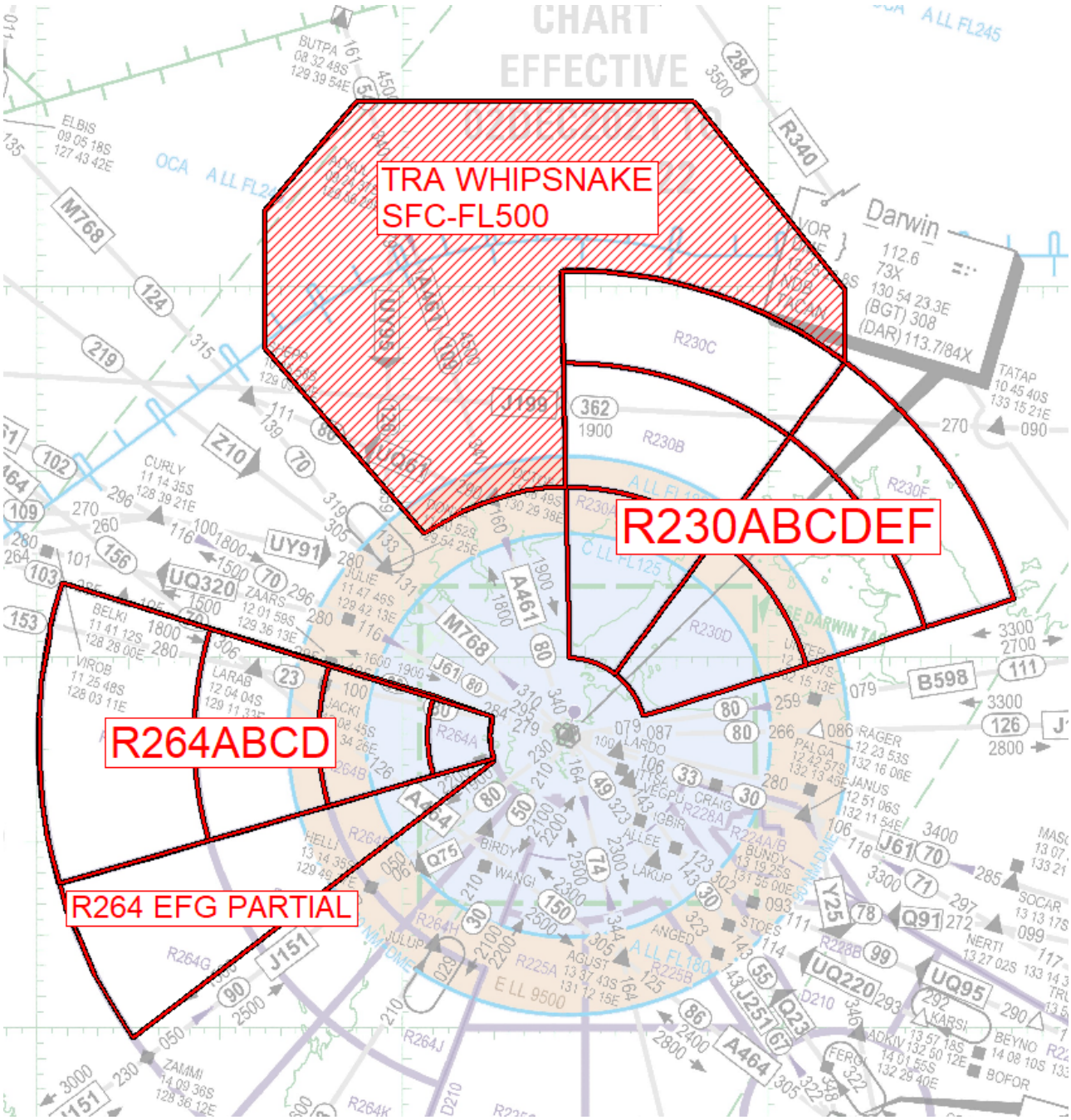

Figure 1. Proposed Restricted Area and extant RA for KA22.

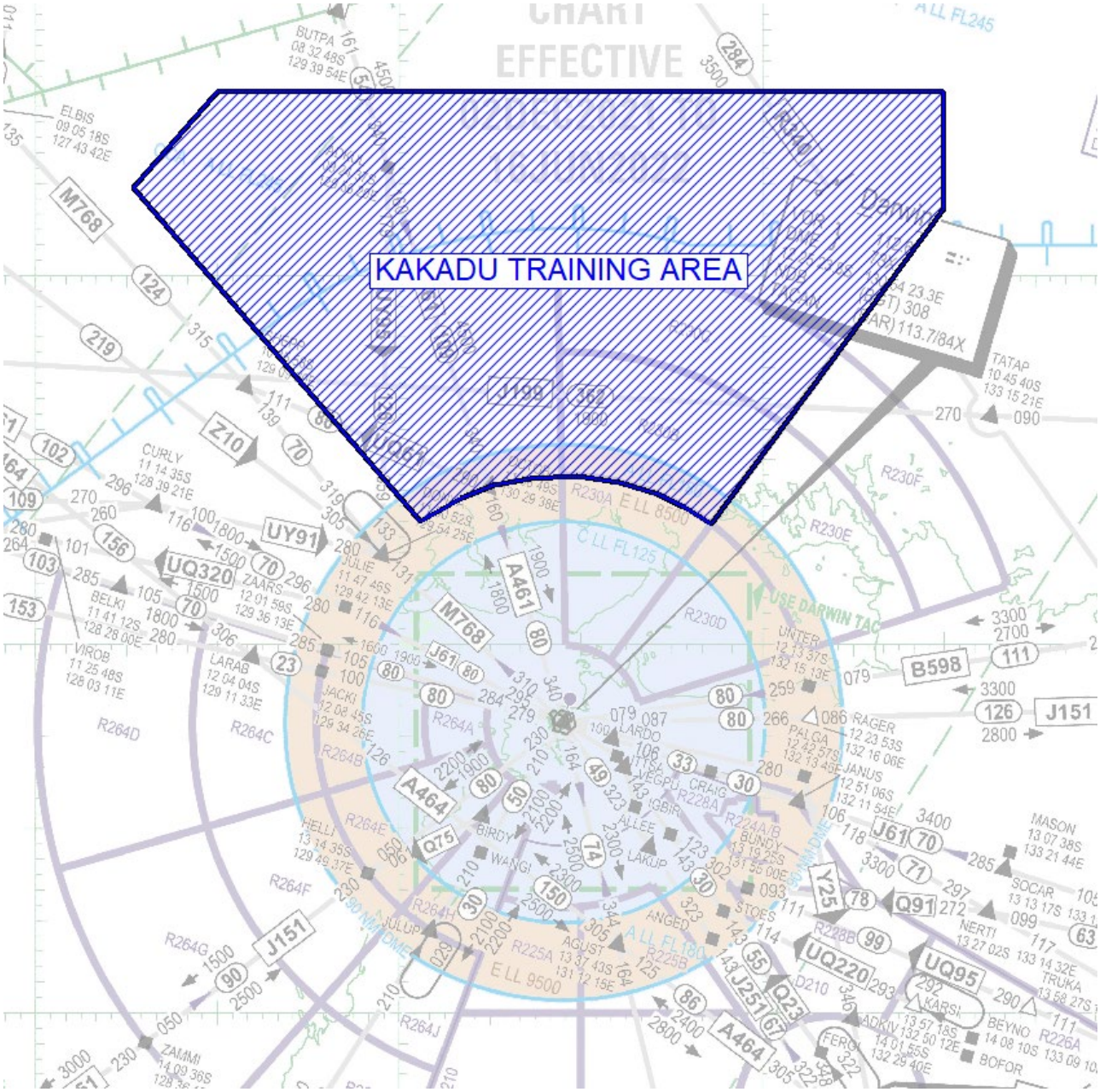

Figure 2. KAKADU TRAINING AREA