Inquiry into Australia's Defence Relations with the United States: Interoperability, Force Structure and Missile Defence Issues

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Regional Air Power Supplement

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1 People's Liberation Army Air Force and Navy

The following material was compiled from publicly available sources and reflects the best currently available unclassified intelligence.



Figure 1: Q-5 Variants. The Q-5 is an indigenous evolution of the Russian MiG-19 Farmer and is broadly equivalent to the A-4 Skyhawk. Around 600 are in service (PLA).



Figure 2: Chengdu J-7 Variants. The J-7 is an indigenous evolution of the Russian MiG-21 Fishbed and is broadly equivalent to the Northrop F-5 series, but faster and more agile. Around 700 are in service (PLA).



Figure 3: The J-8-II Finback B is an indigenous Chinese multirole fighter and is broadly equivalent to the Russian Su-15/21 series and RAF Tornado ADV/IDS (PLA).



Figure 4: The Xian JH-7 is an indigenous Chinese strike fighter and is broadly equivalent to the RAF Tornado IDS. Around 20 serve with the PLA naval air arm (PLA).



Figure 5: The Chengdu J-10 is an indigenous Chinese agile multirole fighter and is broadly equivalent to the F-16C, Rafale, Eurofighter Typhoon and defunct Israeli Lavi. It is expected to enter production next year (PLA).



Figure 6: Chengdu J-10 (PLA).

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Figure 7: The KNAAPO/Shenyang J-11 is an imported or licence built Russian Su-27SK long range multirole fighter, broadly equivalent to the US F-15C Eagle. Current planning sees around 300 in service by 2015 (PLA).



Figure 8: The KNAAPO/Sukhoi Su-30MKK and Su-30MK2 are an imported Russian KNAAPO Su-30MK long range strike fighter, broadly equivalent to the US F-15E Strike Eagle. Around 50 have been ordered with larger numbers likely in the future, the possibility of licence builds has been reported (PLA).



Figure 9: The Xian H-6 is a reverse engineered Russian Tu-16 Badger, broadly equivalent to the 1960s RAF V-bombers. Around 150 are in service, mostly built between 1972 and 1992 (PLA).



Figure 10: The Xian H-6 is the basis of China's indigenous aerial tanker program. Development was reported to be initially a collaboration with Flight Refuelling Limited in the UK during the 1980s. With the questionable usefulness of the Badger as a strike aircraft, it is likely many more will be converted to tankers, especially given the low age of the Badger fleet. As a tanker the Badger compares closely to the now retired RAF Victor K.2 (PLA).

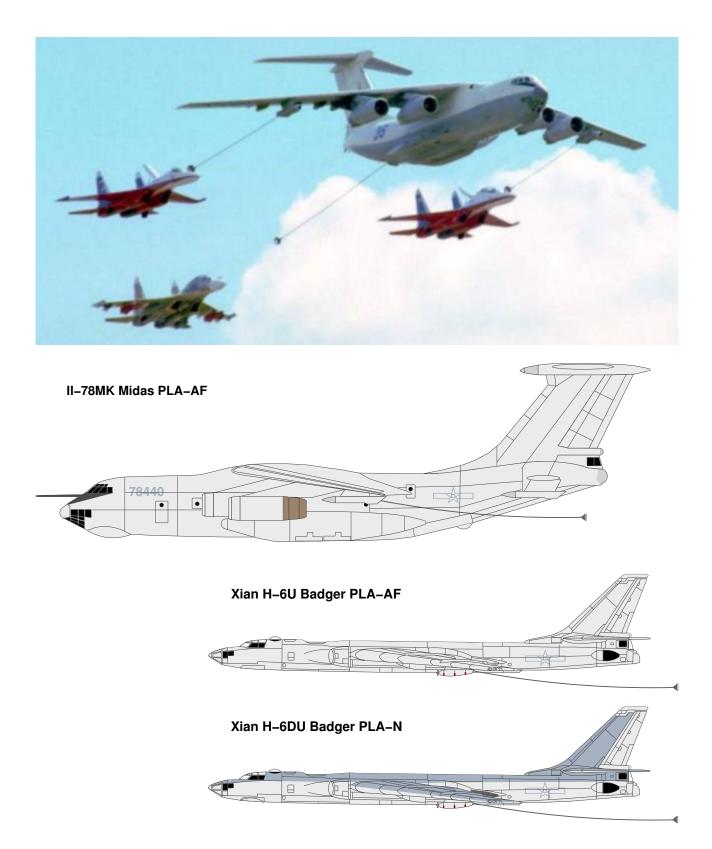


Figure 11: Numerous reports indicate the PLA's ongoing interest in fielding the Russian II-78MK Midas tanker. With India's recent delivery of this type, it is now more likely that China will also order this type (RuMoD/Author).



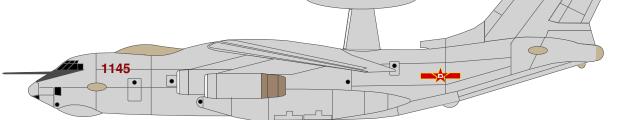
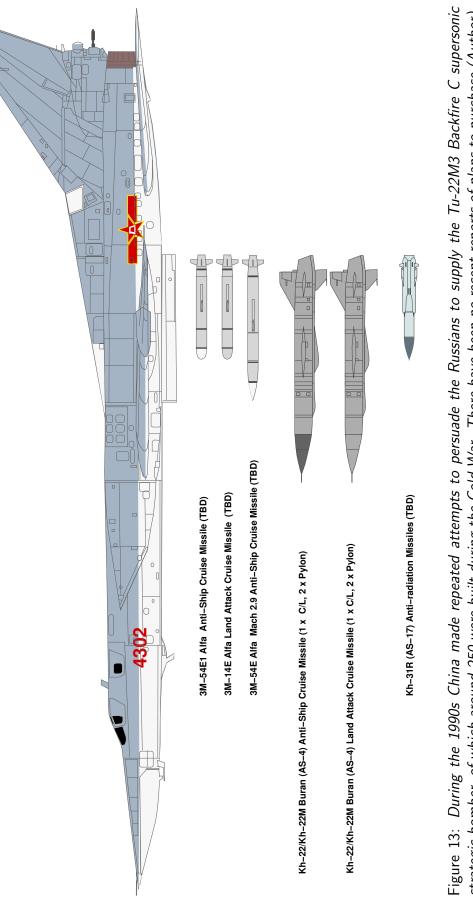


Figure 12: China has ordered several examples of the Russian A-50E AWACS in the wake of the aborted deal to source the better Israeli A-50I Phalcon variant. The A-50E is an upgraded variant of the former Soviet A-50 (RuMoD/Author).





2 Indian Air Force and Fleet Air Arm

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Figure 14: India has plans to operate 180 Russian IAPO Su-30MKI strike fighters, of which 150 will be licence built in India. These aircraft are the most capable non-US production long range fighters in operational service worldwide (US DoD/Bharat-Rakshak).



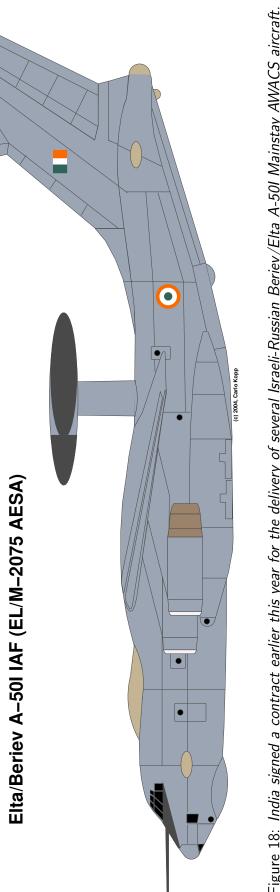
Figure 15: The NIIP BARS (N-011M) phased array radar (upper) fitted to India's Su-30MKI is the largest phased array carried by any third generation fighter, and is highly competitive against the newer technology APG-63(V)2 phased array radar fitted to some US F-15C fighters (NIIP). India has licensed the Russian Yakhont supersonic cruise missile (lower right), to be produced under the name 'Brahmos'. This missile will be available in anti-shipping and land attack models (NIIP, S. Lavrov).

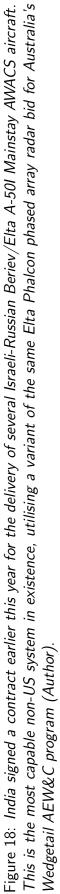


Figure 16: Russia is actively marketing smart bombs for the Sukhoi fleets supplied to Asian nations. These images depict the laser and television guided KAB-1500 (1500 kg) series and KAB-500 (500 kg) series guided bombs, available in bunker busting and standard explosive variants. These weapons are broadly equivalent to the US Raytheon GBU-10, GBU-24 carried by RAAF F-111s, and the Boeing GBU-15 which was carried by the F-111 during the 1980s (Rosvooruzheniye).



Figure 17: India recently took delivery of its first Ilyushin Il-78MKI aerial tankers from the CIS. This aircraft is the most capable non-Western tanker in service. This example is refuelling two Su-30MKI fighters (IAF).

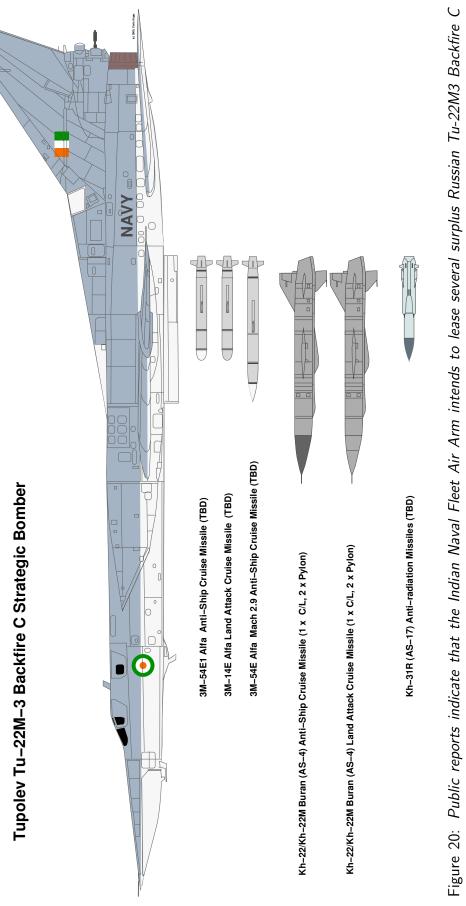


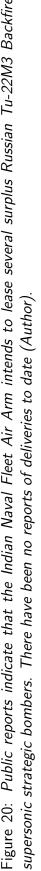


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Figure 19: India has opted to extensively upgrade and expand its fleet of Russian Tupolev Tu-142M Bear F long range maritime patrol aircraft. Much larger and faster than Australia's AP-3C Orions, the Tu-142M has no equivalent in the West (upper). Reports indicate that India's Bears are likely to acquire a missile delivery capability, most likely using the 'Tomahawk-like' 3M54E1 Alfa or supersonic Brahmos missile. Russia continues to use the Tu-95K Bear H as a cruise missile carrier (lower), effectively matching the US B-52H (IN, RuMoD).





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Figure 21: The Indian Navy recently closed a deal for a surplus Russian aircraft carrier (formerly the Gorshkov) and a wing of navalised MiG-29K fighters. The MiG-29K broadly compares to the RAAF's F/A-18A but is more agile (RuMoD).

End of Submission