Central Intelligence Agency



DIRECTORATE OF INTELLIGENCE

05 October 1987

China's A-5M Ground Attack Aircraft: A Prelimin	ary Report 25X1
Summary	
computerdeveloped by US companieswill impacturacy in attacking ground targets with bombs of launching missiles against surface or air targets. We the A-5 will markedly improve China's offensive air Vietnam and Taiwan, but will not be effective against the likelihood of Soviet air superiority and adequipment. Beijing wants to market the improved A-5 the domestic retrofit costsbut will probably have differenced it will not be a fully advanced ground attack a	that will enable the ground forces. The weapons delivery prove the aircraft's reannon fire and in the believe upgrading reapabilities against Soviet forces—given wanced air defense of, or A-5M—to offset ficulty finding buyers aircraft. 25X1 of East Asian Analysis, and 25X1 afformation available as of 5 25X1 are ies are welcome and may
international codarity issued brain	ch, China Division, OEA, 25X1 25X1
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New Avionics for an Old Aircraft	
Beijing is reportedly close to an agreement with the Italian aerospace firm Aeritalia for avionics packages to upgrade the Chinese A-5, a ground attack aircraft based on the F-6 (MIG-19) fighter. Chinese hope to conduct the first flight test of an A-5M prototype in China next April or Mayfollowing integration of the avionics in Italywith series production by the end of 1988.	2
Aeritalia is offering the Chinese the avionics package designed for the AMXa multirole combat aircraft under development jointly by Italy and Brazilthat relies heavily on components developed by US aerospace firms:	
 The LN-39A inertial navigation system is a dow,ngraded version¹ of the INS used on the US A-10 ground attack aircraft and is manufactured by the Italian affiliate of a US firm. 	
 Two digital computers—components of which are built by a US firm—and a military standard 1553B data bus will support a computer-based weapon aiming and delivery system and were developed by a US company. 	
The AMX also uses the EL/M 2001B radar, an all-weather, range-only radarused in the Israeli Kfir fighterthat is built under license in Italy. ²	2
Advantages of the A-5M	
The Italian avionics will not make the A-5M a state-of-the-art ground attack aircraft, but we believe the new electronics will markedly improve the A-5's performance in air-to-surface missions and air-to-air defensive combat. Although a target must first be visually acquired by the pilot, once the Kfir radar begins tracking the target—which is possible even in heavy ground clutter—it communicates target range to the weapons control computer. The weapon aiming and delivery system then uses this data to enable the A-5M pilot to accurately attack ground targets with bombs or cannon fire	
The following analysis is based on our assessment of the capabilities of the LN-39 INS. If the downgraded version has substantial drift rates, however, the system would be less accurate and some of the applications we discuss—such as TASM launches from a predetermined point—would be difficult to perform.	_ 2
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ound in the Chinese Air Fo.	de or while diving. In contrast, the best version of the A-5 rce todaythe A-5-III or A-5-Chas no radar and must be visual sightings or ground controllers.	
		2
upport at night and in bad	m will give the A-5M China's first ability to provide close air weather.*	2
hinese can preprogram the oint of air-to-surface miss rior to takeoff or during flig nereby keeps track of the a ne pilot fires the missile wh	the inertial navigation system and will greatly enhance the A-5's combat capability. The coordinates of a fixed ground target and the desired launch siles on board the A-5M in the weapons delivery computer ght. The INS monitors the A-5M's location during flight and hircraft's position relative to the target. At the launch point, nich uses its own guidance system—infrared, active radar, or d track the target. The maximum launch range is limited the missile being fired.	2
the Kfir radar — the A-5 rget's location by radio cond the heading, the inertial notice to the targe angle of the target.	getssuch as ships or fighter interceptors beyond the range 5M pilot would have to be given an accurate reading of the ommunications. By providing the A-5M's own coordinates avigation system would allow the pilot to determine his et's location and to navigate the aircraft within missile-firing g has advertised that the A-5M can carryin addition to bombsPL-5B or PL-7 tail-attack, infrared-guided missiles enemy interceptors. 6	2!
issilesChina's active rad	ill also arm its A-5Ms with C-801 air-launched, antiship lar-guided missile which is similar to the Exocet and is Although the C-801also designated the adar seeker which searches for and tracks its targets, the	2
issiles—China's active rad SS-NX-4—has an active rad Specifically, the weapon a target range to perform of	Although the C-801also designated the adar seeker which searches for and tracks its targets, the iming and delivery system uses the radar's measurement of continuous calculation of impact point (CCIP) or continuous at (CCRP) which assists the A-5M pilot in firing his machine	2:
SS-NX-4has an active rades SS-NX-4has an active rades Specifically, the weapon a target range to perform calculation of release point guns or releasing his bom To land under these conditions of the second with ground-based navigations.	Although the C-801also designated the adar seeker which searches for and tracks its targets, the iming and delivery system uses the radar's measurement of continuous calculation of impact point (CCIP) or continuous at (CCRP) which assists the A-5M pilot in firing his machine	
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Ch	hina also apparently plans to upgrade the A-5M further by making the aircraf
capable of	of launching laser-guided tactical air-to-surface missiles 7 a move that would be A-5's attack capabilities closer to those of Soviet dedicated ground attack
	Financing the A-5M
	The need to hold down defense spending has led Beijing to use a
"crea	tive financing" scheme for the A-5 modernization program.
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	If foreign buyers are found for the A-5M, profits from foreign sales may offset domestic retrofit costs or finance the production of new A-5s for the Chinese Air Force.	
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L	We hallow the Chinese County of the county o	•
	We believe the Chinese General Staff is particularly interested in fielding the A-5M because of an increasing concern with providing adequate close air support to	7
	Chinese ground forces. have discussed attaching ground attack aircraft to ground force armies in an	
	attempt to provide close air support and battlefield interdiction capabilities. The Chinese have already established a ground and air joint operations training area in the Shenyang Military Region opposite the Soviet Union, according to the military newspaper	
	Liberation Army Daily. Since 1986, joint exercises have been held there with scenarios including Air Force support for tank assaults and defensive combat, and air raids against	
	enemy targets. The radio equipment in the A-5M would facilitate communication with forward air controllers on the ground, and with this target information the new avionics	
	would improve its accuracy in ground attack.	
	The A EM and Decional Air Delawar	
	The A-5M and Regional Air Balance	
	We believe upgrading the A-5 will improve the Chinese Air Force's ability to provide support to ground troops, butgiven the likelihood of Soviet air superiority and sophisticated air defense equipment with Soviet maneuver formations—the Chinese would be hard-pressed to use the A-5M effectively against a conventional Soviet attack. Besides the older MIG-21 and MIG-23 fighters, Moscow has also deployed to the Soviet Far East two of its most advanced fighter aircraft—the MIG-31 Foxhound and the SU-27 Flanker—which could readily intercept A-5M aircraft, even when the A-5s were armed with PL-5B or PL-7 air-to-air missiles. Even Beijing's upgraded fighters, the F-7M and the F-8-2—that we presume the Air Force would deploy to protect A-5s performing their ground attack mission—would not be a match for Moscow's fourth—generation	
	interceptor aircraft. In addition, the Soviet Union has hundreds of advanced mobile surface-to-air missile systems in East Asiasuch as the SA-8 Gecko and the SA-9	
	Gaskin vehicle-launched systemsthat would travel with its troops, prepared to fire on low-flying Chinese ground attack aircraft	2
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The Sino-Vietnamese Balance

China's A-5Ms would fare far better against Vietnam's less sophistic defenses, particularly if Beijing decided to again launch a limited border incurs Vietnam or if Vietnamese troops crossed into Chinese territory. The Chinese A would probably sustain only minimal casualties in attacks on Vietnamese targe to the border. Vietnam's well-integrated air defense system could inflict heavy however, on any deep strikes by Chinese aircraft, particularly in the Hanoi-H	sion into Air Force ets close / losses.
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The Taiwan Strait Balance	
Fielding improved ground attack aircraft—along with modernized F-7 a fighters—will advance the China–Taiwan air balance in Beijing's favor. China advantage has been, and will continue to be, its vastly larger air force. But A-5Ms with antiradiation missiles and TASMs would pose a new threat to 1 surface—to—air missile defenses, reducing the aircraft losses China would ot suffer in an attempt to gain command of the air over Taiwan. We believe that it launched an invasion of Taiwan, the Chinese Air Force would probabl A-5Ms—with fighter support— against primary targets, such as:	n's main arming Faiwan's Cherwise f Beijing
See DI Intelligence Assessment EA 84-10064C 1984, China: Military Options Against Vietnam.	March 25X1
Beijing also moved A-5 ground attack regiments to airfields opposite Vietnam the 1979 conflict. This deployment, however, was evidently for defensive ponly, and China's air activity was limited to reacting against Vietnamese violating Chinese airspace.	urposes
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The PL-8 is equivalent to the Israeli Python III air-to-air missilean all-	
infrared-guided missile with a range of 15 kilometers.	25X1

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- Maintenance complexes, aircraft, and petroleum storage facilities at Taiwan's military airfields.
- Taiwan's ground-controlled intercept (GCI) and early warning (EW) radar sites.
- Taiwan's Hawk and Nike-Hercules SAM sites.
- AAA sites defending various targets. (S NF)

The A-5M's Export Potential

We believe that finding buyers for the A-5M--outside of the Chinese Air Force--will be difficult because of the longstanding presence of the United States and the Soviet Union in the international aircraft market. The upgrade program calls for production of 600 A-5Ms for export, according to press reports from the Paris Air Show. 225X1 But. few spectators at the exposition visited the booth set up by the China National Aero-Technology Import and Export Corporation (CATIC) -- the aviation industry's marketing firm -- and Aeritalia, despite the display of an A-5 aircraft and a mockup of the nose section with the 25X1 Italian-supplied avionics. In addition, the A-5M will probably also face competition in the export market from the AMX ground attack aircraft--due to enter the Italian and Brazilian Air Forces in 1988 and 1989, respectively. Although both aircraft will carry the same avionics package and a comparable weapons mix, the AMX will offer a newer airframe--a 1980s Aeritalia design, as opposed to a modified Soviet MIG-19 of 1950s vintage-- and will be powered by a more reliable Rolls-Royce Spey engine in contrast to the A-5's two relatively short-lived WP-6A engines. 25X1 We believe China's most likely customers for the A-5M will be countries seeking extremely affordable aircraft. Zimbabwe, for example, purchased F-7 fighters last year for its developing air force and may consider buying Chinese ground attack aircraft as well. Thailand turned down the A-5 in 1985 after sending a pilot to China to test fly the 225X1 ground attack aircraft, may reconsider if Beijing oners the upgraded A-big at a triendship price. Two countries have already purchased A-5s--Pakistan bought 54 aircraft in 1983 and 1984 and Bangladesh took delivery of its first 16 A-5s last year, 25X1 but we believe they will probably choose to add the Italian avionics to the 25X1 A-5s in their inventories, rather than huy more aircraft 25X1 ∠ɔX1

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