

CHINA'S AIRPOWER CHALLENGES ON THE TAIWAN STRAIT



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KEY POINTS

- Why does the US need to sell Taiwan need 66 new F-16 C/D fighter and other weapons?
- The 1979 Taiwan Relations Act , Plus American strategic and moral interests
- Taiwan faces a space-air-sea-invasion threat
- PLA is also targeting U.S. forces that would assist Taiwan
- 1,500 SRBMs and LACMs target Taiwan and number is growing
- 150 J-10s + 180 JH-7s + 224 Sukhois = 554 PLA 4th gen vs. 320 ROC 4th gen fighters
- PLA is developing 4+ Gen Fighters, and 5th Gen Fighters expected by 2020
- Expanding submarine numbers increase blockade potential
- PLA Army amphibious and Marine forces point to growing invasion threat
- **Taiwan requires: Expanded missile defenses and a missile deterrent; Upgraded air defenses including new F-16s and then 5th Gen fighters; A submarine deterrent; upgraded ground force armor and civil defenses; new asymmetric weapons**
- **US requires: Robust conventional and nuclear capabilities in Asia; military space defense systems; adequate numbers of 5th and 6th generation fighters; defensible carrier air power; adequate numbers of submarine; rapid deployment**

1979 Taiwan Relations Act says, “it is the policy of the United States” to:

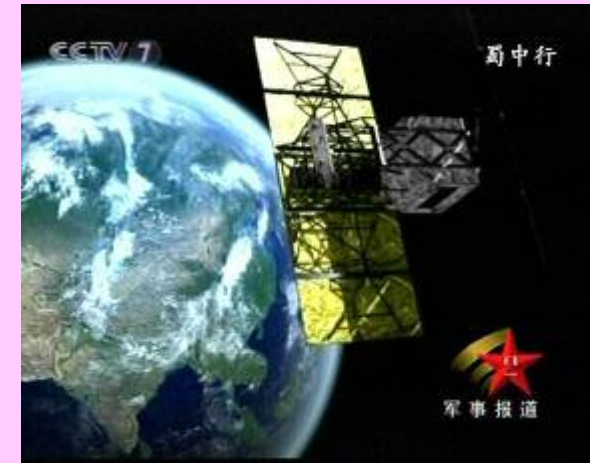
- to consider any effort to determine the future of Taiwan by other than peaceful means, including by boycotts or embargoes, a threat to the peace and security of the Western Pacific area and of grave concern to the United States;
- to provide Taiwan with arms of a defensive character; and
- to maintain the capacity of the United States to resist any resort to force or other forms of coercion that would jeopardize the security, or the social or economic system, of the people on Taiwan.

Strategic Issues: PRC control of Taiwan would split the Pacific, isolate Japan and give a superb base to PLA nuclear weapons.

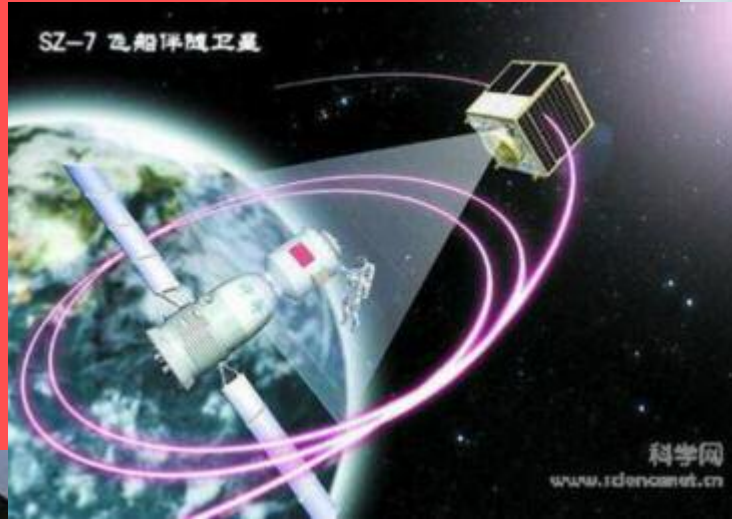
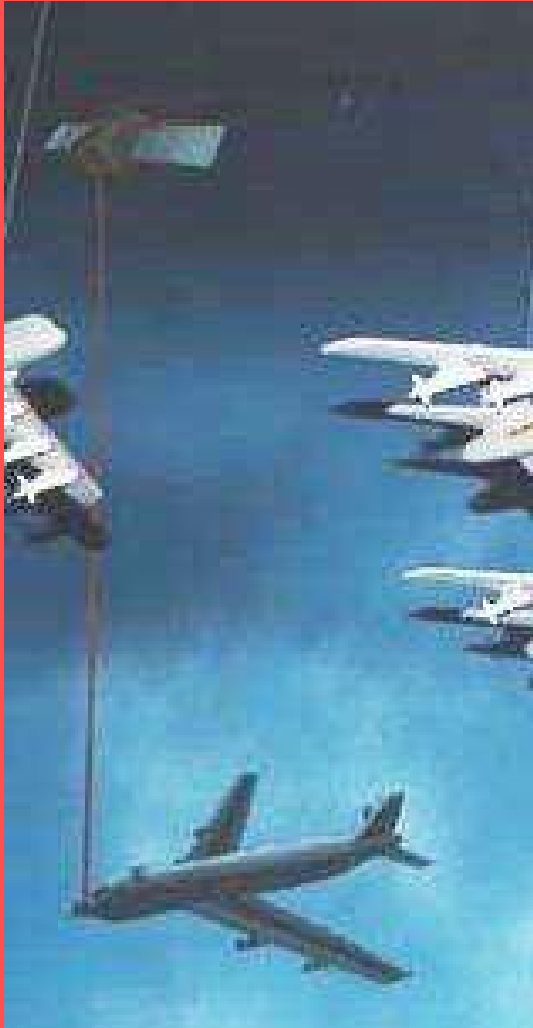
Moral Issues: PRC control of Taiwan would result in “murder” of a new democracy. Think of Vietnam after 1975.

American Lives: If Taiwan can deter war with China then Americans can remain safe.

Exploiting Space



DENYING OUTER-SPACE



NEW LAND ATTACK CRUISE MISSILES

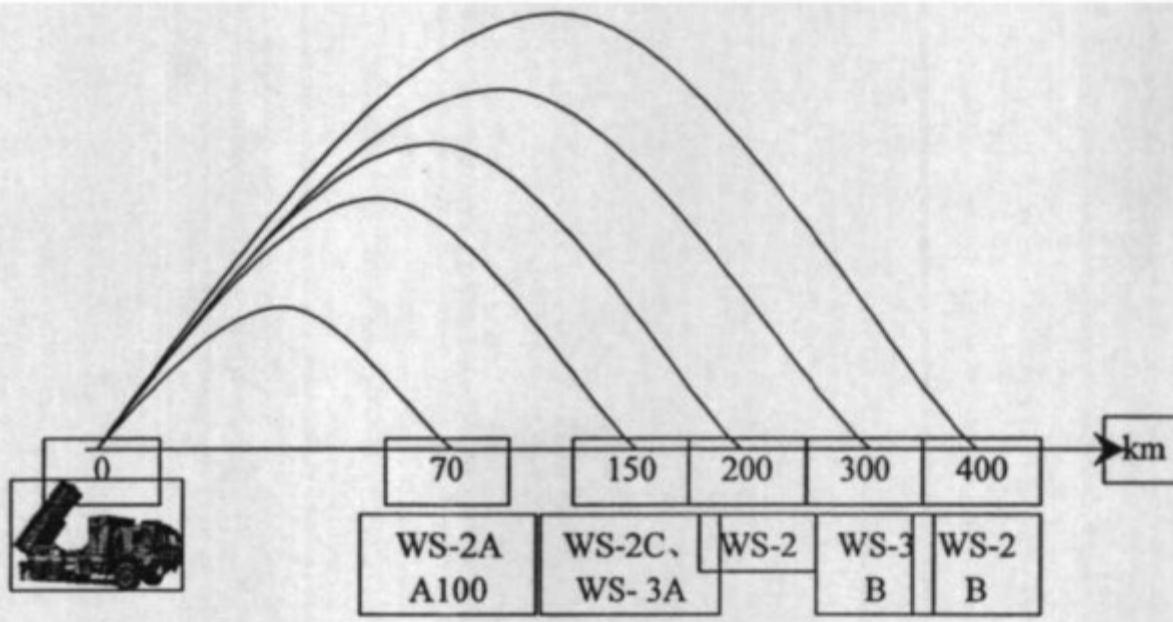
400+ in Second Artillery, then PLA Air Force and Navy



SRBMs and MRBMs: 1,200 +



MLRS TO SRBM: 13 Type of SRBMs can reach Taiwan



名称	WS-2A	WS-2	WS-2B	WS-2C	WS-2D
射程 (KM)	70	150	200	300	400
打击目标	面目标	面目标	雷达	雷达	点、面目标



WS-3 Guided Multiple Launch Rocket System

WS-3 High Accuracy Guided Multiple Launch Rocket System adopts GPS/INS integrated navigation and full range control technology, which greatly improve the firing accuracy. It can be equipped with various types of warheads featured with long-range, high accuracy, strong firepower in salvo, fast operation response and convenient maintenance.

Specification

- Diameter: 400mm
- Total Length: 7150mm
- Mass of Warhead: 200kg
- Max. Range: 200km
- Min. Range: 70km
- No. of Rockets: 6 racks
- Firing Accuracy (CEP): 300 (INS), 50 (INS+GPS)
- Type of Motor: Solid

MANEUVERING ANTI-SHIP SRBM/MRBM

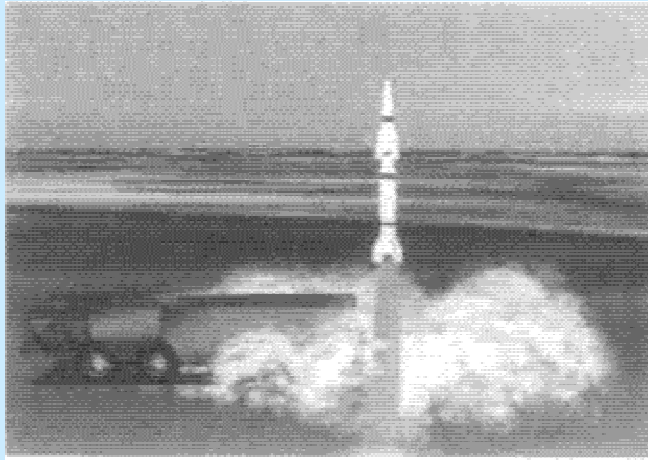


图3 导弹发射升空时的效果图

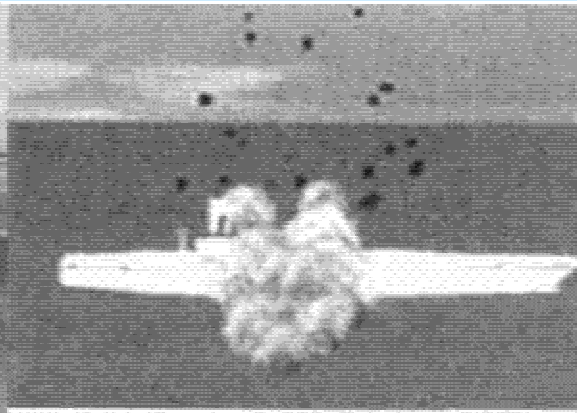


图4 航母被击毁时的效果图

Fig. 4 The attacked aircraft ship



**PLA AIR FORCE MODERNIZATION: 500+ 4th Gen Combat aircraft
224 Sukhois, Su-27s/Su-30s/J-11s in 11 Regiments**



Chengdu J-10 @150 in 7 Regiments
Xian JH-7/A @ 180 in 8 Regiments



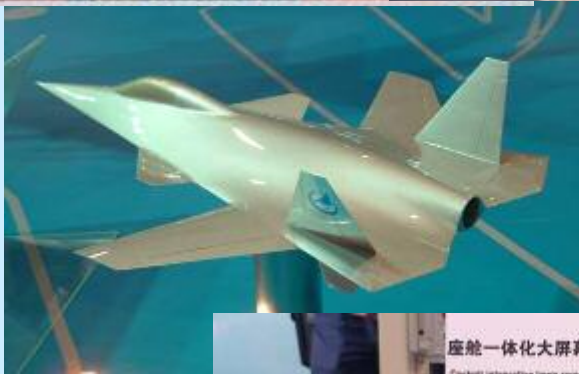
New 4+ Gen Combat Aircraft Programs: J-11B; “J-10B”; and “JH-7B”
Features: AESA radar; Thrust Vector Engines; Advanced PGMs;
Improved Stealth



5th Generation Fighters: Shenyang and Chengdu

Shenyang Appears Most Advanced: Stealth; AESA; Internal Weapon Carriage

Chengdu A Late Comer: Heavy and Medium 5th gen, possible F-35 class program underway; Possible Stealth and UCAV projects underway



BOMBERS AND AWACS PROGRAMS

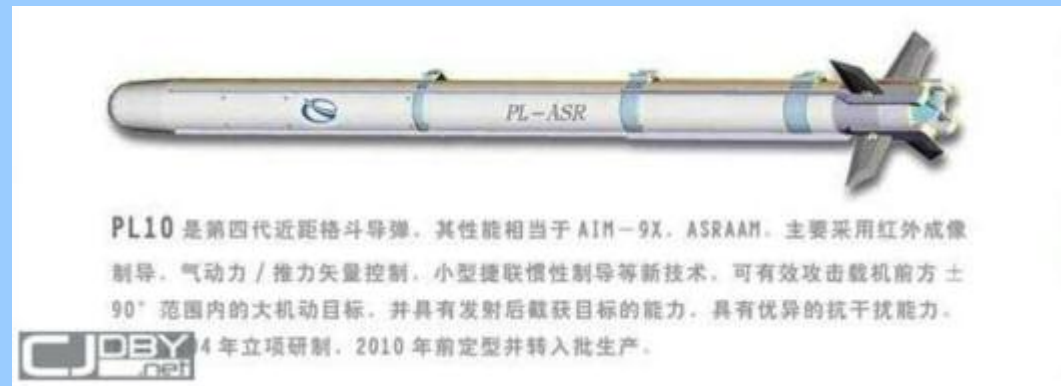


Precision Guided Munitions

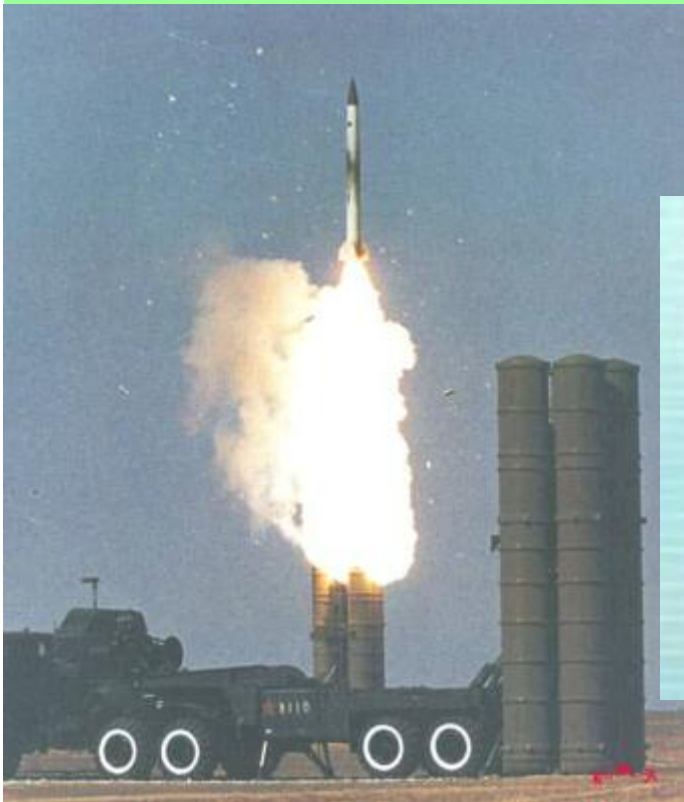


4th and 5th Generation AAMs

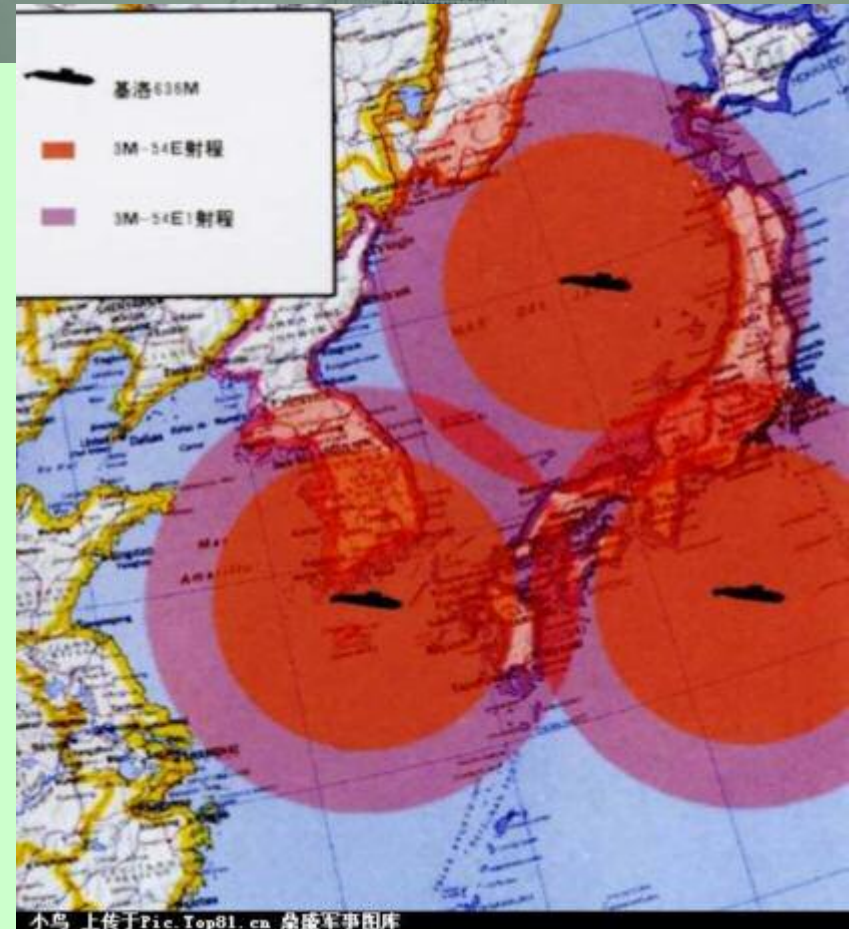
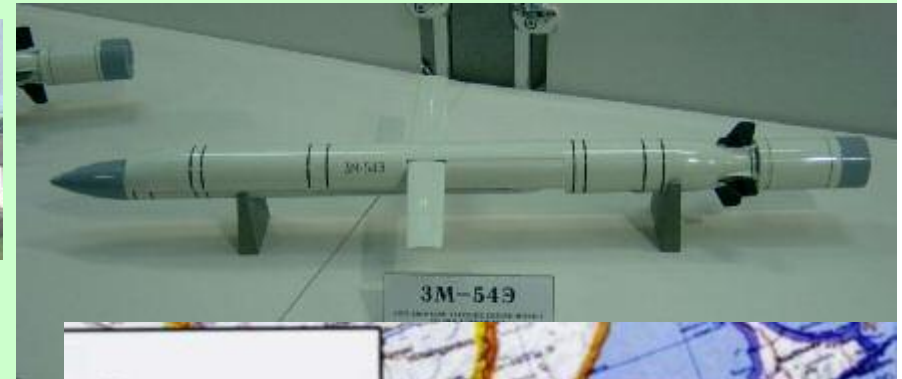
**Importing Russia's Vympel R-73 HMS and R-77 active-guided medium range
Apparent South African technology aided PL-10/13 HMD AAM—20km
range—could upgrade 100's of older J-7 and J-8II fighters
PL-13/14 ramjet AAM—100-150km range**



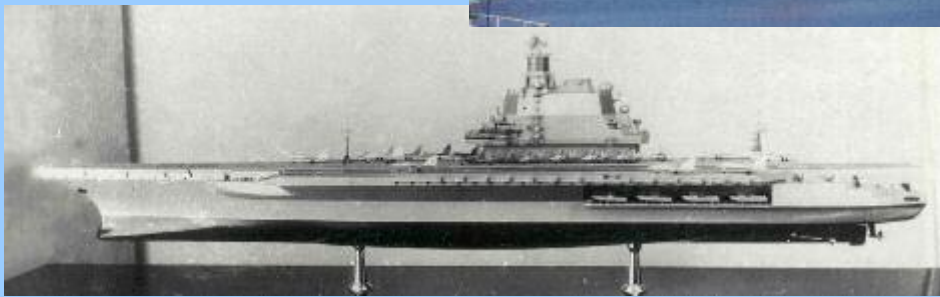
MODERN ANTI AIRCRAFT SYSTEMS



28+ Modern Kilo; Yuan; Song SSKs

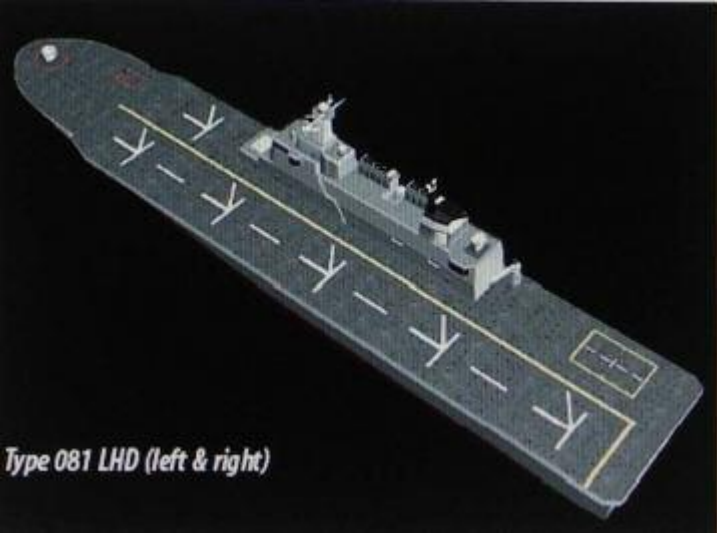


**Carrier Aviation:
First Carrier by 2012? 4-6 by the 2020s?**



GROWING AMPHIBIOUS THREAT

300,000+ troops in Amphibious capable units



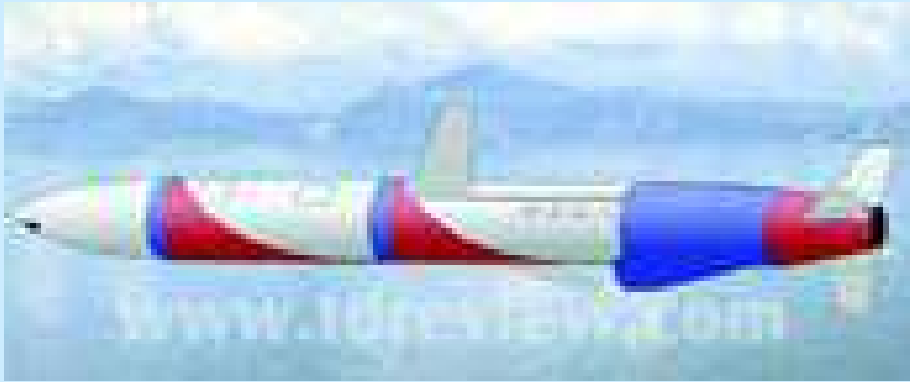
Type 081 LHD (left & right)



AIRBORN THREAT



Missile Defense or Missile Deterrent ?



小型發射載具性能

參數	小型發射載具性能
近地點(Perigee)	500-700 km
遠地點(Apogee)	500-700 km
靜態體積 (Static Envelope)	600 mm dia. X 700 mm ht.
靜態重量	50 kg
軌道傾角偏差 (Inclination Angle)	22.3±0.5 deg
衛星入軌姿態 (Tip-Off Rate)	<10 deg (per axis)

NSPO NATIONAL SPACE ORGANIZATION



Taiwan Quadrennial Defense Review, March 16, 2009: Seeking Submarines, Advanced F-16s and 5th generation fighter—preparing for the long term



The TRA also states it shall be US policy “(6) to maintain the capacity of the United States to resist any resort to force or other forms of coercion that would jeopardize the security, or the social or economic system, of the people on Taiwan.”

How will the ending of F-22 production a 187, absent a commitment to a 6th generation fighter help advance this goal?

Is it really time to retire the U.S. inventory of 300 or so nuclear armed Tomahawk cruise missiles?



Conclusions

The bi-partisan reluctance to sell Taiwan advanced weapons is a threat to U.S. security and to U.S. interests in Asia.

China's real goal is to defeat American power in Asia.

Taiwan wants to defend itself, with the assurance of U.S. support.

It is in America's long term interest to help Taiwan deter attack from China until the day a free China can establish truly peaceful relations with the people of Taiwan.

