

# EAST ASIA AND MISSILE DEFENSES: RIGHT MILITARILY AND WRONG POLITICALLY?

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RIGHT MILITARILY AND WRONG POLITICALLY?by Alexander A. Pikayev\*

ABSTRACT

ABSI KACI

Developments in East Asia represent, probably, the most intriguing and challenging factor in shaping global security for the twenty-first century. Despite the financial crisis that took place in late 1990s, the super-region remerged again as one of the i area in the world. At the same time, economic problems in Japan, South Korea and South East Asia temporarily halted the elevation of their role in international politics. Developments in Indonesia demonstrated how fragile political systems in many E states can be and the risk that domestic political stability might be broken suddenly by economic hardships. Prospects for internal destabilization for many key regional players effectively prevent establishing a regional collective security system based economic integration and common political values like the one emerging in Europe.

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A decade long economic stagnation in Japan and the weakening of some ASEAN countries sharply contrasted with the consistent growth in China, which further consolidated its regional position as a result of the Asian financial crisis. The return of Hong Kong and Macao in 1997 and 1999 respectively also considerably contributed to the Chinese economic and political might. The task of integrating Beijing into a cooperative environment in the Western Pacific is becoming an urgent task. However, it is not possible to achieve because the environment itself has not yet been formed.

Gradual but steady changes in the regional balance accompanied by periodic tensions across the Taiwan Strati is slowly eroding a system of the US led alliances in the East Asia. The US security guarantees cannot provide the allies with a feeling of security like the one enjoyed by the Europeans after the end of the Cold War. At the same time, there is little prospect of establishing alternative security arrangements which would be capable of adequately addressing the changing security environment in the region.

An absence of a truly integrated area in the Western Pacific, difficult political relations and mutual suspicions between some of key regional players makes the continuing US geopolitical presence there an extremely and increasingly important stabilizing factor. There is a critically urgent need to halt further erosin of the US security guarantees, and, hopefully, to reverse the process. In that context, anti-missile defenses are widely considered not as a panacea, but a primary tool for preserving the US presence and, thus, maintaining the fragile regional stability.

MISSILE DEFENSE RATIONALE

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It is symptomatic, that both primary factors of the US commitment to missile defense deployments originated in East Asia. Combination of the 1996 Chinese missile launches towards Taiwan together with Beijing minimum deterrence capabilities against the North American targets challenged criedibility of the US security guarantees to its regional allies. The 1998 North Korean launch over Japan question overall US military presence overseas already in not too distant future.

Indeed, if the anti-missile defense provides the United States with a feeling of invulnerability of its national territory. Washington might be more willing to active decisively if its allies in the Western Pacific were externally challenged. Not surprising, that the 1996 Chinese missile launches into the Taiwan straights occonsiderably contributed to the US anti-missile debates.

At that time, in a response to what was perceived by the Clinton administration as a coercive strategy, the United States send aircraft naval groups closer to Taiwan. That move allegedly triggered an overreaction in Beijing. An authoritative military source said, that any US military involvement into the Chinese domestic affairs might cost the Americans nuclear attack against Los Angeles. The overstatement reviewed debates using the Beltway on whether Washington should permit itself to maintain minimum deterrence relationship with China, or alternatively, it should looking for military and technical means permitting to return back to situation of 1970s when Beijing did not possess ballistic missiles capable delivering nuclear warheads to targets located in North America. Certainly, the Chinese argument was not the only rationale for shifting the US domestic debates from accent not intoland missile defenses (NIDI). Nor it was the main public argument. To the contrary to late 1960s, when President Johnson used the Chinese threat in order to promote the US niting and the proposal to the Certainly, the China factor is often mentioned by both US a

Mansfeld Commission.

The DPRK launch was a psychological shock, which fall on already fertile soil. The United States not immediately and quite painfully accepted their vulnerability for the Soviet and then Chinese missiless. Washington was clearly unprepared adopting to vulnerability from the North Koreans and other unpredictable "roques". That process, if continued, could put under risk not only American troops stationed abroad, but the US soil itself and thus question the overall US military presence overseas. Given tremendous American sensibility to human losses, any dictator could calculate that if he possessed missiles capable reaching the US territory, Washington would have to refrain from adversarial military involvement into a regional war with his participation. Therefore, the Americans feared, several important regions might become sanctuaries for aggressions, and Washington will be deprived from freedom of interventions.

NORTH KOREAN MISSILE THREAT?

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It is widely assumed that the North Korean ballistic missile launched on August 31, 1998, represented a modernized version of the Soviet short range Scud missile. The original Scud R-17 ballistic missile with range at 300 kilometers and throwweight of 1000 kilograms was developed at the Soviet Mashinostroyeniye design bureau located in the city of Miass, the Urals. It was a single stage missile with liquid fuel (geptyle with nitrogen acid oxydizer) engine. The missile weight was 5.8 tons and it was road mobile system. Serial place at Volkinisk machine building plant, where SS-27s ICMBs are recently production took place at Volkinisk machine building plant, where SS-27s ICMBs are recently produced it in numbers far exceeded quantities of other types of guided surface-to-sonstructed elsewhere. Since mid-1970s it was exported under title R-17E (see Table 1). For some countries, like Iraq, the Soviet Union sold hundreds of such missiles. Until 1988 they were inter alia delivered to Libya, Syria, Egypt, Warsaw Pact states. Under the contracts, the recipients were normally prohibited from the missiles modernization and re-export. But the importers, especially, after the Soviet collapse, often - both openly and covertly - violated these provisions. As a result of re-export, the Scuds appeared in the countries, where they had never been exported by the USSR. DPRK was among them.

Indu MPRIL UPSIL DPTIN. Was among mem. It should be mentioned that the Scud possessors attempted to modernize the missiles together, by financing each other projects and exchanging by technological data. Some of them were capable to produce their own systems based on Scuds, and exported them as well. Reportedly, some of the possessors received technical assistance from China.

The North Korean missile program started in 1981, when it purchased several Scuds? from Egypt. Pyongyang was capable to organize its own production of the missile modification - Scud A, and then modernized it into more capable Scud B system. It was produced serially with a monthly rate of 8-12 missiles. In July 1987 DPRK sold 100 missiles to Iran and, probably, helped Tehran to start its own Scud production. Since 1991 the North Korea initiated full scale production of a new Scud C modification.

Table. North Korean Scuds with their Soviet parent system

		Maximum range, kilometers	Production started (year)	Other classifications
Scud F	USSR	300		R-17: Soviet name SS-1 - NATO Clssification
Scud A	DPRK	300	1984	Modernized version of the Soviet R-17E
Scud B	DPRK, Iraq, Iran	320	1985	Insignificant Sucd-A modification
Scud C	DPRK, Iran	500-650	1991	In Iraq classified as Al Hussein
Scud D	DPRK	~1000	1993	Nodong-1
Scud E	DPRK	?	?	Nodong-2

Source: Gennady Khromov. On the question of so called missile threat from Iran and DPRK. - Y Nodong-2

Source: Gennady Khromov. On the question of so called missile threat from Iran and DPRK. - Yadernoye rasprostraneniye, # 29-30, April-June 1999 (in Russian)

According to official Russias' data, on August 31, 1998 the North Korea launched a new two stage missile. In its statement from September 4 Pyongyang claimed that it made a satellite launch to celebrate the 50th anniversary of founding the DPRK. Experts agree that the new missile used Nodong-2 system. Nodong-1 and Nodong-2 represent the second generation of Scud based missiles. Under some estimates, Nodong-1 range can be approximately 1,000 kilometers, if the warhead weights 1,000 kilograms. To let them thing, more Scud engines were placed on them.

Although the Nodong project is on its early phase of implementation, the North Koreans already owrking on the Scuds' third generation - Taepodong missile. It consists of two stages, which might permit to increase range up to 3,500 kilometers. The first stage is based on Nodong-2 technology, the second one - on Scud C or even Nodong-1. Since the missile could be too heavy - with the weight at several dozens of tons, Pyongyang might be incapable to maintain its mobile basing.

The main technical problem for the North Korean missiles is represented by their engines still based on the 9D21 system designed in the Soviet Union for original Scuds in early 1960s. It was specifically designed for a tactical missile with the weight at 5.8 tons, and would be insufficient for much heavier medium range missiles. For instance, 10 such engines would have to be installed on the first stage of Taepodong missile with its weight at 5.0-70 tons. However, this technical challenge might be solved if the Chinese armered to deliver more mover/free more noneral plantness. Service more proper days of the proper more proper deliver more noneral plantness.

and would be insufficient for much heavier medium range missiles. For instance, 10 such engines would have to be installed on the first stage of Taepdong missile with its weight at 30-0 to 10ns. However, this technical cuanteria migrate of believer more powerful engines, say, from Dong Fang 3 (CSS-2) missiles.

Technical experts arguing, that if old engines used - a common problem for all Scuds possessors, - a need to increase range usually leads to diminishing throwweight, and thus payload which can be delivered to the target. The guidance system, originally designed for a tactical missile, also cannot provide reasonable accuracy for longer range missiles. Thus common problem for all Scuds possessors, - a need to increase range usually leads to diminishing throwweight, and thus payload which can be delivered to the target. The guidance system, originally designed for a tactical missile, also cannot provide reasonable accuracy for longer range, the lower payload and accuracy of a missile expended and accuracy of a missile expended on quantitative modification of the Scuds. Another argument is that both the United States and the Soviet Union, before deploying new missiles, and as a few of the properties of the propert

pad.

Neither North Korean missile possesses strategic intercontinental range. Its interception during flight trajectory requires not strategic, but capable theater missile defenses (TMD). Such defenses are not prohibited by the US-Russian Anti-Ballistic Mis Treaty signed in 1972. In fact, unlimited tests of the US TMD systems were permitted by the US-Russian demarcation agreements concluded in New York in September 1997. Furthermore, the ABM Treaty itself permits limited anti-missile tests under creativations.

restrictions.
In 1990 Fyrongyang demonstrated relatively cooperative approach in nuclear field. It helped to move forward initiatives reached under the 1994 Framework Agreement. In 2000 the DPRK broken its self imposed isolation from the South agreeing on historic visit of South Korean president to the North. It dramatically changed political environment around Pyongyang, and raised hopes that North Korean missile problem could be solved by political means. Under few occasions, the DPRK leaders also made clear that under certain conditions, they could be neady to halt their further missile tests.

Anti-missile defenses remain doubtful in terms of security on the Korean peninsula as well. Significant short-raape North Korean missile capabilities and short distances between the demilitarized zone and some vital South Korean untrained doubts on whether TMD could provide additional security for the South. Likely, attempts to develop and deploy it would provide North Korean tartical missiles build up and they have already demonstrated their capabilities to produce more than a hundred of such systems annually. As a result, Pyongyang could increase its offensive deployments up to a point, when they might saturate initially modest defenses. Political price for such offense-defenses arms race could be also too high, putting under risk prospects for rapprochement between two Koreas, which recently look reasonably promising, in that context, disloque between program goals capabilities to produce and some initial proper program poses certain challenges for the US and regional security. However, recently prospects for their political solution has considerably enhanced. Nevertheless, some kind of non-provocative military responses would be also workable and even desirable (like those in transparency area). It is doubtful, however, that significant, costly and futuristic NMD deployments represent an adequate response to the threat which might never materialize. Even in the missile defense field, solutions could be found witho

CHINA FACTOR

The China factor could be considered as much more serious argument in favor of the US large scale missile defense deployments, or against them. The main question here is whether the anti-missile defense would really consolidate the US security alliances in the Western Pacific and thus deserve support, or, quite oppositely, it would trigger a chain of undesirable consequences.

The NND debates demonstrated new intriguing development in global interaction between nuclear powers. While the post Cold War environment brought situation of unique security to Europe, traditional nuclear related risks shifted to North East and South Asia.

Emerging China is clearly playing growing role in national security calculations of both the United States and Russia. Possible Beijing's reaction on potential US NMD deployments could be considered as one of main challenges not only for regional but global security developments.

security developments.

So far China pursed very restrained nuclear policy. By early 1980s it obtained technological feasibility to hit targets located in North America. Since that, it reportedly deploys two or three dozen missiles capable to fulfill that mission. In fact, during last two decades of the XX century, the Chinese sent a clear message to Washington on their reluctance to move beyond minimum deterrence relationship with the United States, and thus on their desire to avoid nuclear arms race with them. Under certain circumstances, even initially limited US NMD might intercept all the Chinese missiles. As a result, in internount nuclear deployements at their recent levels. Washington coaler feeling with keeping its minimum deterrence option. Consequently, already in next decade China might strategically find itself in a stuation it faced in mid-1970s, when it was unable delivering warheads to the US national territory. However, the geostrategic environment could be very different: since the Cold Warr Washington celary demonstrated that it was not willing anymore to adjust its regional interests to Beiging's sensitivities, especially on Taiwan issue. Due to that, some Chinese analysts might perceive, that maintaining minimum nuclear deterrence in relations with the United States could be a vital element guaranteeing American restraint if something happens around the Taiwan straight.

Until now, the Chinese abstanced from publicly announcing their military reaction on possible US NSMD deployments on its deterrence forces, which could be inflicted by the American anti-missile deployments, by initiating with the United States they have achieved two decades ago. If Beijing develops MIRV technology, it might be assured from negative impact on circumser size of their intercontinental nuclear forces up to around 1,000 warheads within next twenty years. In other words, one could imagine a realistic scenario when Chinese strategic nuclear capabilities in their server of magnitude already in the foreseeable futur

defense system.

This policy does not mean initiation of the US-Chinese arms race in a type took place between the Soviet Union and the United States during the Cold War. To the contrary to Moscow, Beijing evidently does not seek numerical strategic nuclear parity of the Cold War. To the contrary to Moscow Beijing evidently does not seek numerical strategic nuclear parity. This policy does not mean initiation of the US-Chinese arms race in a type took place between the Soviet Union and the United States during the Cold War. To the contrary to Moscow, Beijing evidently does not seek numerical strategic nuclear parity of the Cold War. To the contrary to Moscow, Beijing evidently does not seek numerical strategic nuclear parity of the Cold War. To the Cold War. To

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) More details about possible reaction in Asia on the US NMD deployment see: Joseph Cirincione, Asian Nuclear Chain Reaction, Foreign Policy, Wash., DC, Spring 2000.

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