

U.S. MISSILE DEFENSE PROGRAMS

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the most important defense issue in the 2000 presidential campaign, and which 1972 U.S.-Russia Anti- Ballistic Missile Treaty, which presently bans any such that 1972 U.S.-Russia anti- Ballistic Missile Treaty, which presently bans any such that a such that the such t

atly improved its only existing missile defense system, the Patriot. Patriot's radar now has greater range and can track more objects simultaneously. Starting in 2001, the Pentagon is to deploy a further-improved version of the Patriot. That is later than initially expected—another reminder of the difficulty of developing even new Patriot is linkey to work with high effectiveness. It will also passess a lever "Airbo-bill" interceptor and the patriot of the pentagon of the pentagon of a missile body during strong-point reserving sea early vintages of Patriot were in Desert Storm). It will also passess a new "Airbo-bill" interceptor and the pentagon of the pentago

relatively imple mixed defines systems—but the new Farrier at interpt cut the new Farrier at

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In 1977, the Clintox Administration devided to commit to development of the lawer technology makes seen, it is not considered an option for next, operation. All, will grow workshed within the next development of the lawer technology makes seen, it is not considered an option for next, operation. The International Control of the Control of the

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not entirely trivial to develop decoys that work properly. It is not particularly hard for a technologically sophisticated country, but nor is it easy—and it may take a country such as North Korea quite a while to perfect the needed iolimatic space has been teller when under the particularly hard for a technologically sophisticated country, but nor is it easy—and it may take a country such as North Korea quite a while to perfect the needed iolimatic space as the particular when distributed over a wide area by a devise it has perfect anticular with hological agents, and it is under the particular and particular and the particular and I less than ideal means of delivering such agents. (27)
would be interested to the control of th

BOOST-PIASE NOD

To make it much tougher for an enemy to deleast NMD with fairly simple countermeasures, the United States could develop interceptor missiles for boost phase defense. They would be relatively small but extremely fast-burn reclets that would be fired very quickly after an enemy launch was detected, calching up with the enemy ICBM—ensemblary is a tight to provide the provided by the provided and t

One drawback to the boost-phase corness corney; to many us many us more as a least, and control that anyone would be made as a least, and control that anyone would be made as a least, and control that anyone would be made as a least, and control that anyone would be a very good outcome.

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es ite of Iran, defending against a missile launch by that country would require two boost phase interceptor bases. One would be north of Iran—in the Caspian Sea, Turkmenistan, or possibly Kazakhatsa or Uzbelistan. Such basing could be bough to arrange, meaning that boost phase defended against the pass of the Caspian Sea, Turkmenistan, or possibly Kazakhatsa or Uzbelistan. Such basing could be bough to arrange, meaning that boost phase defended against the pass of the country would require two boost phase interceptors base on the country would require two boost phase interceptors bases. One would be bough to arrange, meaning that boost phase defended against the pass of the country of t

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expensions. [188] and \$1.85\$ effects would not work against a mixed uses a your amount agree your, or access a same tums a your amount agree your, or access a same tums a your amount agree your and a same tum a your amount agree your and a same tum a your amount agree your agree your against a mixed after a had let the atmosphere, but that would require better seconcy away as a sesting (37) Barges would also have a hard tume avoiding attack by cruise mixed or submarine if deployed near a large, military advanced country. Russian President Valeimir Putin appears to agree with these arguments, if his proposals shortly after his june, 2000 Monorous natural with President Clinion are fine and sintern inclinion. However, as of the is wright is to soon on the subject, given to not be learned to write a gain and a shaft after the enemy L'Elb was fired, and would access the interceptors to not be understood to the interceptor mixed have and you could be used to show the interceptor and the world access the interceptors are of the board place defense would not work against a mixed after the enemy L'Elb was fired, and would access the interceptors to not a beautiful and a similar or mixed as a mixed or mixed as a mix

TMD mode against intermediate-range missiles, they would not work a MORE AMBITIOUS NATIONAL MISSILE DEFENSE CONCEPTS umbers of interceptors and radars and other components of the systems proposed above, or consisters and the Navy Theater Wide interceptor; and the Bush Administration's "GPALS" concept of the where, they could worsen nuclear security rather than help it, and lead to a proliferation of counter.

like North Korea that may not be able to develop and deploy o AN EXPANDED FORM OF THE CURRENT NMD SYSTEM SSYSTEM

systems of the pand current U.S. plans for NMD further. For example, the United States could deploy missile defense sites in both North Dakota and Alaska, winding up with a total of 250 interceptor missile, as well as nine advanced missile tracking radars on U.S. and allied territory. Setting up two interceptor missile or capability and envisioned for deployment by 2011 by the Petadagon. (40) It implic cost \$10 billion more than the C2 option, roughly speaking—for a total of all obsets 50 billion in cost, all this did, with the capability of the capability and envisioned for deployment by 2011 by the Petadagon. (40) It implic cost \$10 billion in cost than the C2 option, roughly speaking—for a total or adout 50 billion in cost a expension costs, all this did, with the capability of the

AND TABLESO
TO All the current U.S. theater missile defenses system would use the Jeep's radar deployed on about 60 U.S. Navy cruisers and destrayers as its engagement radar, and use a modified form of the Standard Missile as its interceptor, with a hit do bill final stage adop it.
Of all the current U.S. theater missile defenses without restriction, but does not clearly define the demarcation point between these are a strategic missile defenses. In part of the strategic missile defenses without restriction, but does not clearly define the demarcation agreement has a fow the strategic missile defenses. In part of the strategic missile defenses without restriction, but does not clearly define the demarcation agreement has not been radiated as probably will be believed by the strategic missile defenses. In part of the strategic missile defenses without restriction, but does not clearly define the demarcation agreement has not been radiated per la probably will be probably a but the strategic missile defenses without restriction, but the strategic missile defenses in the strategic missile defenses without restriction, but the strategic missile defenses in the strategic missile defenses on the strategic missile def southward facing radars.

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POLITICAL AND POLICY ASSESSMENT

The above is a briefling on the state of U.S. missile defense programs, in which I leave estimated to the technologies and the political debates without interjecting many personal opinions or policy preferences. But I would like to add several subjective views at this point, most of which I expressed in Tokyo during the trilateral meetings at U.N. University. The case for manife defense is a conflictable one, but in the end I support both TND and NND. However, the latter program needs to be handed extremely carefully, in light of possible repercusions for the U.S. Resists relationship, for the safety and security of the Resistan macher deterrents for the colesion of NNIO, and for the stability of East Aim. If some carefully control of the colesion of the way mark would make the Woon, as were various soams, reas severe a series soams as well as a series of the Wood of

In the state of a war provided by North Kores in which the United States and South Kores had decided to overthrow the PEW. regine, Propagasing in even threating plans with minist carrying chemical or biological appear or a nuclear wardword [6] it multiply bell or an electron wardword or a ministration of the personal properties of the North Kores in an EURA (Feed allow does not a ministration wardword in the personal properties of the North Kores in an EURA). For cold and of mixture threating its effect as a feed and in EURA (Feed allow does not in the state and in EURA). It cold all ords of entirely threatent me for the personal properties for the North Kores in Annie and EURA (Feed allow does not in the state and in EURA). For cold and of entirely threatent me for the personal properties of the North Kores in Annie and EURA (Feed allow does not the state and in EURA). For cold and of entirely threatent me for the personal properties and in EURA (Feed allow does not in EURA). For cold and of entirely threatent me for the personal properties and in EURA (Feed allow does not in EURA). For cold and of extra threat threating its effect and in EURA (Feed allow does not in EURA) and in EURA (Feed allow does not in EURA). For cold and of extra threating its effect and in EURA (Feed allow does not in EURA) and in EURA (Feed allow does not in EURA). For cold and in EURA (Feed allow does not in EURA) and its effect and in EURA (Feed allow does not in EURA). For cold and in EURA (Feed allow does not in EURA) and its effect and in EURA (Feed allow does not in EURA) and its effect and in EURA (Feed allow does not in EURA). For cold and in EURA (Feed allow does not in EURA) and its effect and in EURA (Feed allow does not in EURA) and its effect and in EURA (Feed allow does not interest and in EURA) and its effect and in EURA (Feed allow does not interest and in EURA) and its effect and in EURA (Feed allow does not interest and interes

inspirate for North Korna. At that point, its insteaders might feel they had life to lone, and see such a threat as their only remaining hope of negotiating a ponce that left them in power for at worst in soylems. Of course, if North Korna had an ECRM, it could it by in paragraph the United States. But it could it by in paragraph and the states are all the course of the paragraph and the states are all the course of the paragraph and the states are all the paragraph and the paragraph and the states are all the paragraph and the states are all the paragraph and the states are all the paragraph and the paragrap

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See Reland L. Carvine, The swrong plant, "Bulletin of the Adminis Scientists, vol. 56, no. 2 (Merzhlydra 2000, pp. 36-41), Reland L. Carvine, "A Defense that will not Defend," Wenhington Quarterly, Carvine estimates the weight of such a boost-phase interceptor, which need not carry a heavy purple to 100 tons.

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Nautilus Institute 608 San Miguel Ave., Berkeley, CA 94707-1535 | Phone: (510) 423-0372 | Email: nautilus@nautilus.org