The Status of Nuclear Non-Proliferation in the Era of Renewed Russian Aggression

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U.S. House of Representatives
Russia’s Nuclear Threats

Putin publicly put Russian nuclear forces on high alert. What should we make of that?

March 29, 2022 · 4:25 PM ET
Heard on All Things Considered

Ukraine: Putin declares war and warns foreign powers of unprecedented ‘consequences’ if they interfere

The Independent, February 24, 2022

Russia's nuclear forces holding manoeuvre drills

- report

Reuters, May 31, 2022

Nuclear Risks: Russia’s Ukraine War Could End in Disaster

The National Interest, July 31, 2022
“So what message does this send to any country around the world that may think that it needs to have nuclear weapons to protect, to defend, to deter aggression against its sovereignty and independence? The worst possible message.”

“Regional actors with nuclear ambitions, such as Iran and Saudi Arabia, are watching closely.” ~ German Institute for International and Security Affairs
Border Conflicts & Nuclear States

Blue: States in Border Conflict

Blue/Red: Nuclear States in Border Conflict

- Russia
- China
- North Korea & South Korea
- Taiwan
- Pakistan
- India
- Israel & Palestinian Territories
- Ukraine
## Things to Think About

<table>
<thead>
<tr>
<th>Short Term</th>
<th>Provide aid to Ukraine. Sanction Russia. Don’t let Russia “win”.</th>
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<tr>
<td>Medium Term</td>
<td>Re-enter negotiations to replace New START Treaty</td>
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<tr>
<td>Long Term</td>
<td>Continue to reduce our nuclear stockpiles. Advocate for diplomacy in other global conflicts.</td>
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What has BF done?

○ Translator of science
○ Legislation to minimize risk of theft and accidents
○ Amendments to various major appropriations packages
  ○ National Defense Authorization Act
  ○ CHIPS and Sciences Act
Scientists created this problem. Scientists have to solve it.
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- Rep. Bill Foster & Team Foster
- Dr. John Mather & John and Jane Mather Foundation
- Society of Physics Students & American Institute of Physics
- Y’all :)
“The IR-6 centrifuges being installed at Natanz are seven to eight times more efficient than the IR-1 machines Iran is allowed under the nuclear deal.

Enriching uranium to 20% purity and beyond also increases the potential for it being used for military purposes because the effort required to refine it to this point from its natural state is 90% of the total effort needed to get it to weapons grade.

The US-based Arms Control Association (ACA) said that once Iran had accumulated 170kg of 20%-enriched uranium, it would be able produce one bomb's worth, or 25kg, of uranium enriched to weapons-grade in less than two months.

Iran had about 17kg of uranium enriched to 20% purity as of mid-February and it has said it plans to produce 120kg in total during 2021. It is also currently producing nine grams per hour of 60%-enriched uranium.”
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