

The Verification of Compliance with Arms-Control Agreements

Military activities in the U.S.S.R. can be unilaterally monitored by the U.S. with the aid of a wide spectrum of remote-sensing technologies, including high-resolution satellite photography

by David Hafemeister, Joseph J. Romm and Kostis Tsipis

The recent decision by the U.S. and the U.S.S.R. to resume bilateral arms-control negotiations was heralded by both governments with public statements emphasizing the need to halt and even reverse the growth of their nuclear arsenals and related weapon systems. Given the present climate of mistrust between the two nations, it is repetitive that compliance with the terms of any treaty that might emerge from the new negotiations be unilaterally verifiable by each side. Verification requires that each nation have a reliable and objective means of monitoring the military activities of the other. Accordingly, both nations have over the years developed a completely new family of systems for gathering such information from a distance. The systems are collectively referred to as national technical means of verification.

The issue of verification is quite separate not only from the legal question of whether an observed activity constitutes a treaty violation, but also from the political question of what to do about a violation once it has been detected. Nevertheless, verification is more than just a technical issue. In the U.S., for instance, verification has been a focal point of the recurrent political debate over the merits of various existing and proposed arms-control treaties. Opponents of any particular treaty tend to argue that the U.S. cannot verify Soviet compliance well enough to maintain national security under the terms of the treaty, whereas advo-

cates of the treaty tend to argue that the U.S. can.

In general, the question of whether or not a treaty is verifiable by the U.S. can be reduced to two narrower questions: First, at what level of clandestine Soviet activity would U.S. security be jeopardized? Second, is the U.S. system of verification capable of detecting that level of activity?

What are the technologies needed to observe the development, testing, production and deployment of a weapon system? The earliest detectable signs of development might be communications between officials and scientists working on the weapon; some of these signals could be intercepted by monitoring radio waves. Alternatively, a spy might observe the weapon or its parts directly. According to a statement made in 1979 by William J. Perry, then Undersecretary of Defense for Research and Engineering, "we monitor the activity at the [Soviet missile] design bureaus well enough that we have been able to predict every major [intercontinental ballistic missile] before it ever began its tests.... We have always in the past been able to detect an error's existence before it ever went into test."

Once a weapon arrives at the stage of testing outside the laboratory, the full spectrum of acoustic and electromagnetic energy can be exploited to gain information about it. Visible-light detectors such as those on photoscanning satellites can "see" the weap-

on directly; infrared detectors on satellites can sense the heat emitted by a rocket exhaust plume during tests; microwave track a weapon in the air; sonar can track one in the water, and telescopes can detect and assess an underground nuclear test.

After a weapon has been fully tested it moves into production. Production involves large-scale transportation to and from manufacturing plants, an activity that can be monitored with the aid of visible light or infrared radiation. Finally, the operational deployment and training of personnel with the new weapon can also be monitored. The main difference in observing these processes is that in general testing and production can be detected while they are happening, whereas deployment involves activities that continue for years and can be detected at any time after they begin.

Determining whether the U.S.S.R. is violating the terms of a treaty, however, does not require observing every thing having to do with the laborious process that culminates with the weapon's deployment. On the contrary, only parts of the activities involved, if they become known in sufficient detail, would be enough to identify their purpose and betray the violation of the agreement. This process of detection and identification is facilitated in a number of ways by the natural synergy among the various means of gathering information from inside the U.S.S.R. Information gathered by one monitoring system may be electronic intercep-

Arms Control Verification And Compliance

Philip O'Neill



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Congress in the news media in symposia and perhaps in the electoral process What limitations on conventional and nuclear weapons are we safe in accepting and at what levels U S verification capabilities are an essential part of this debate A collection of insightful essays by the leading experts on verification issues Verification The Key to Arms Control in the 1990s makes a valuable contribution to the rational and responsible discussion of arms control BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved Verification and Compliance Stuart D. Goldman,1989

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mount tambora location eruptions map facts britannica - Jul 13 2023

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tambora princeton university press - Nov 05 2022

web when indonesia s mount tambora erupted in 1815 it unleashed the most destructive wave of extreme weather the world has witnessed in thousands of years the volcano s massive sulfate dust cloud enveloped the earth cooling temperatures and disrupting major weather systems for more than three years

how the 1815 eruption of mount tambora produced the year - Feb 08 2023

web mount tambora is a stratovolcano and forms the entire 37 3 mile 60 km wide sanggar peninsula on sumbawa island

indonesia its eruption in april of 1815 is the largest observed eruption in recorded history it measured a 7 on the volcanic explosivity index vei plumes from the eruption of mount tambora reached an altitude of 27 miles 43

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1815 eruption of mount tambora wikipedia - Jun 12 2023

web the 1815 tambora eruption is the largest observed eruption in recorded history as shown in the table below the explosion was heard 2 600 km 1 600 mi away and ash fell at least 1 300 km 810 mi away aftermath

[mount tambora wikipedia](#) - Sep 15 2023

web mount tambora or tomoro is an active stratovolcano in west nusa tenggara indonesia located on sumbawa in the lesser sunda islands it was formed by the active subduction zones beneath it before 1815 its elevation reached more than 4 300 metres 14 100 feet high making it one of the tallest peaks in the indonesian archipelago

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[tambora dağı vikipedi](#) - Aug 14 2023

web tambora dağı veya tomoro dağı endonezya nın küçük sunda adaları ndan biri olan ve hem kuzeyi hem de güneyi okyanusal kabuk ile çevrili sumbawa daki aktif bir stratovolkandır tambora altındaki aktif yitim zonu tarafından oluşturulmuştur

[mount tambora volcano sumbawa island indonesia nasa](#) - Sep 03 2022

web on april 10 1815 the tambora volcano produced the largest eruption in recorded history an estimated 150 cubic kilometers 36 cubic miles of tephra exploded rock and ash resulted with ash from the eruption recognized at least 1 300 kilometers 808 miles away to the northwest

[mount tambora facts britannica](#) - Dec 06 2022

web mount tambora volcanic mountain on sumbawa island indonesia that in april 1815 exploded in the largest volcanic eruption in recorded history the eruption killed at least 10 000 islanders and expelled enough ash rock and aerosols to block sunshine worldwide lower the global temperature and cause famine

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