Mountain, Militarized: North Korea, Nuclear Tests, and Nature

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On 3 September 2017, the earth shifted. Seismic activity registering 6.1 on the Richter scale indicated a major geophysical event had taken place, one strong enough to change the shape of mountains. On that day, North Korea exploded a nuclear device at the Punggye-ri Nuclear Test Site inside Mount Mantap (Figure 1). Estimated to be at least 100 kilotonnes, it was the largest nuclear device detonated by North Korea to date (Figure 2). Satellite pictures from before and after the event provide visual evidence of the test’s power to alter the lay of the land (Figures 3 and 4). The most obvious immediate effect was subsidence over 34 hectares of Mantap’s western slope—indicated by the appearance of bare patches in the mountain’s vegetation after the test—and a resulting loss of one to three meters of the peak’s total elevation. Long-term, Mantap may suffer from “tired mountain syndrome,” in which its weakened geological structure could result (and may have already resulted) in the collapse of the test tunnels and in seepage of radioactive material into the air, soil, and water.
As dramatic as the incident was, Mantap’s reshaping represents only the most recent example of how military activities have physically transformed Korea and its environment. Throughout the twentieth century, the Korean peninsula epitomized what scholars call militarized landscapes—those places in whole or part mobilized to support military aims. Early in that period, Japan fought with both Russia and China to control Korea, ultimately claiming the peninsula as a formal colony in 1910. For the next thirty years, Japan forcibly marshaled Korea’s human and natural resources to extend its imperial power across Asia and the Pacific. The peninsula’s forests, mineral reserves, and waterways powered the factories and transportation networks the empire built to achieve its military goals; Korea’s agricultural lands fed the Japanese army that was fighting to expand Japan’s power in Manchuria and China. Depleted forests, eroded mountains, and dammed rivers evidenced the militarization of Korea’s landscape.
This militarization process intensified, rather than diminished, with Japan’s defeat in 1945. While the end of World War II promised the return of peace and a sovereign Korean state, larger geopolitical forces complicated that transition and resulted in a peninsula physically and politically divided at the 38th parallel. Several years of bitter internecine conflict ensued, followed by all-out war when North Korean forces invaded South Korean territory on 25 June 1950. For the next three years, brutal armed conflict raged back and forth across the peninsula, leaving nearly 10 percent of Korea’s population dead and at least 60 percent of its forests destroyed. A massive refugee crisis compounded wartime disruptions in agriculture and placed additional demands on compromised urban and rural infrastructures. The armistice signed on 27 July 1953 provided only for a cease-fire, so the two Koreas remain (as of this writing) officially at war, still separated at the 38th parallel by the incongruously named Demilitarized Zone (DMZ). While the armistice brought some measure of peace, intense ideological competition and occasional outbreaks of violence between North and South Korea ensure that the peninsula remains one of the most militarized landscapes on Earth.
It is in this context that we must understand North Korea’s nuclear program and the related changes to Mount Mantap’s terrain. Decades of conflict have heightened North Korea’s sense of urgency regarding its national security, resulting in actions that override long-standing cultural and legal proscriptions against the destruction of nature. Koreans—north and south of the DMZ—attribute both historical and spiritual meaning specifically to mountains, many of which play important roles in local legends and religious practices. Mountains also figure prominently in Korean environmental preservation. Of the six national parks in North Korea, for example, five protect individual mountain peaks (Figure 5). The most significant of these, Mount Paektu, sits only 114 kilometers northwest of Mount Mantap. Beyond the cultural contradiction, the nuclear program also contravenes Article 7 of North Korea’s Environmental Protection Law (1986), which explicitly prohibits the development, testing, and use of nuclear and chemical weapons on the Korean peninsula and pledges to fight any such activity in the region. And yet, North Korea felt compelled to become a nuclear power, undermining the integrity of Mount Mantap in the process.
The nuclear explosion inside Mount Mantap and the landslides on its surface may have taken mere minutes to unfold, but they were a century in the making. They may also represent a turning point away from that history. The 2017 nuclear test heightened global concerns over North Korea’s military plans and regional fears about the environmental fallout; yet, less than a year later, a historic meeting occurred between North Korea’s Supreme Leader Kim Jong-un and South Korea’s President Moon Jae-in, resulting in the Panmunjom Declaration for Peace, Prosperity, and Unification of the Korean Peninsula. The Declaration calls for an official end to the Korean War, improvements in inter-Korean relations, and the denuclearization of the peninsula. If achieved, these objectives could set the stage for the peninsula’s demilitarization as well. The events at Mount Mantap may symbolize Korea’s militarized history, but may also usher in a new era of peace and prosperity for the Korean peninsula.
Fig. 6. A North Korean observation post in the Demilitarized Zone.
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