

North Korea claims spy satellite launch

International experts are seeking to verify North Korea's claim that it has successfully launched its first spy satellite, an effort that South Korea asserts likely included Russian aid

Nov 21, 10:42pm local time:
Malligyong-1 satellite
launched on **Chollima-1**
rocket, entering orbit
12 minutes later, North
Korea says

**Sohae
Satellite
Launch
Station**

CHINA RUSSIA

CHOLLIMA-1

NORTH
KOREA

**Sea of Japan
(East Sea)**

Pyongyang

Seoul

SOUTH
KOREA

**Yellow
Sea
(West
Sea)**

JAPAN

300km

200 miles



2023년 9월 13일



*President **Vladimir Putin**
pledges to help build satellites
during North Korean leader
Kim Jong Un's visit to
Russia in September*

CAPABILITY

■ Experts believe **Malligyong-1** to be small, optical satellite with low resolution, based on wreckage recovered by South Korea after earlier failed launch

■ **Pyongyang** appears to be developing larger rocket for more-capable satellite

RUSSIAN HELP

■ South Korean expert says Moscow may have helped resolve combustion instability that plagued earlier launch

■ First stage believed to be powered by same dual-nozzle liquid-fuel engine fitted to **Hwasong-15** ICBM, derived from Soviet-made **RD-250** engine