Briefing
- the Cheonan Situation -

Ambassador Han, Duk-soo

Background

- Apparent Explosion cause ROKS "Cheonan" to break apart and sink
  - March 26, 2010, app. 21:22
  - 1 mile SW of Baengnyeong Island
  - Stern sank few min. later, bow 3 hrs. later
  - 104 crew / 46 dead or missing

Background

- Joint Civ.-Mil Investigation Team(JIG)
  - 74 Civ. & Mil experts
  - ROK, US, Aust., UK, Sweden
- Investigation results announced: May 20
- President Lee's address: May 24

Issues and Findings

- Cause of incident
  - External explosion
  - Torpedo
  - NK made
- Responsibility
  - Torpedo fired by a NK submarine

Cause of Incident

(1) External Explosion

(2) Torpedo explosion

(3) NK manufactured

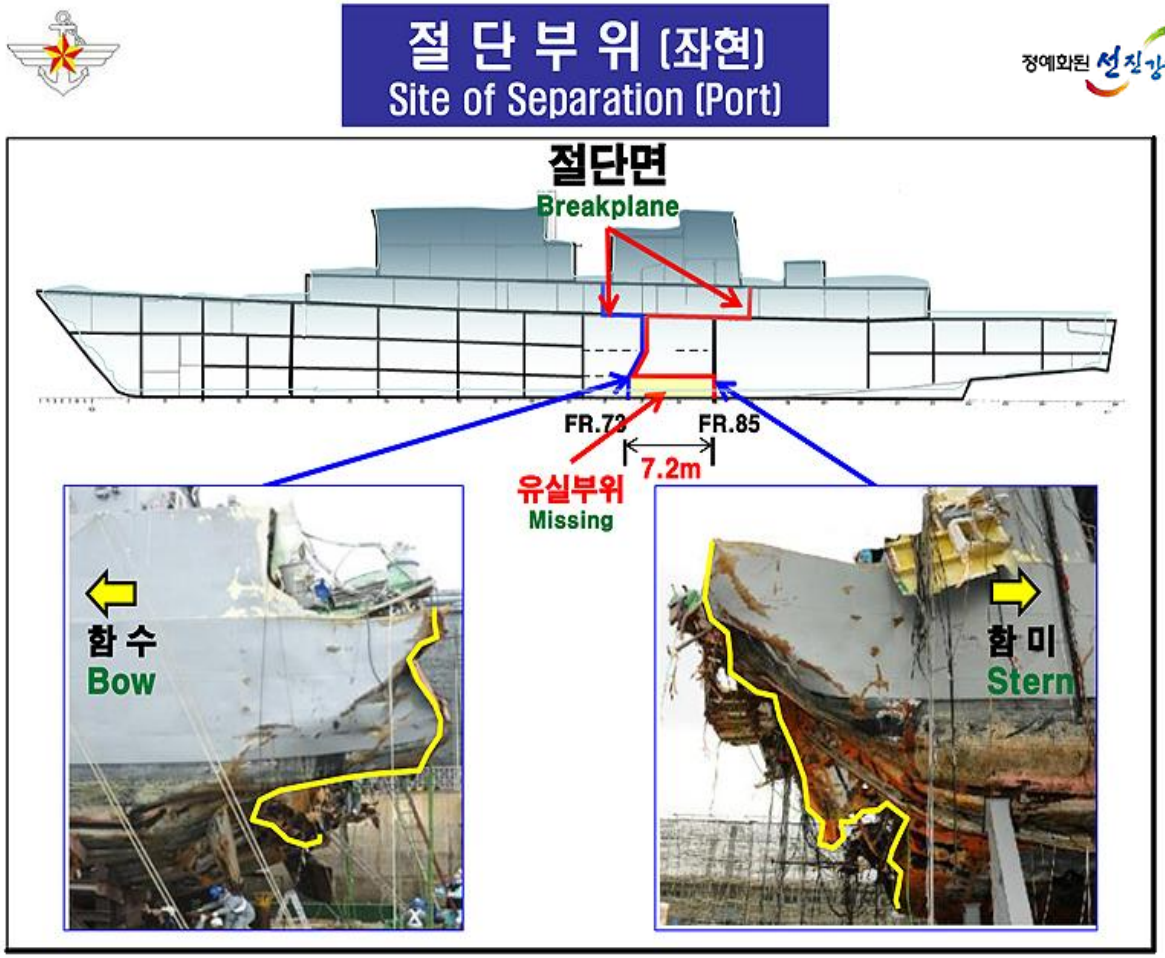
Cause of Incident

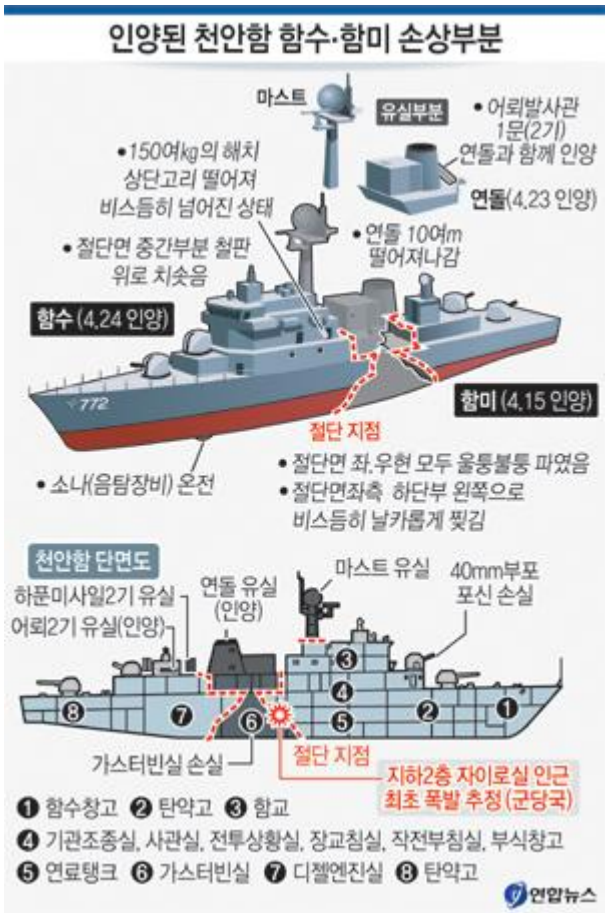
(1) External Explosion : JIG conclusion

- Underwater explosion outside the ship
- Bottom left(port) side of the gas turbine room
- Explosion direction : bottom left → top right

Cause of Incident

(1) External Explosion Proof : location beneath gas turbine room

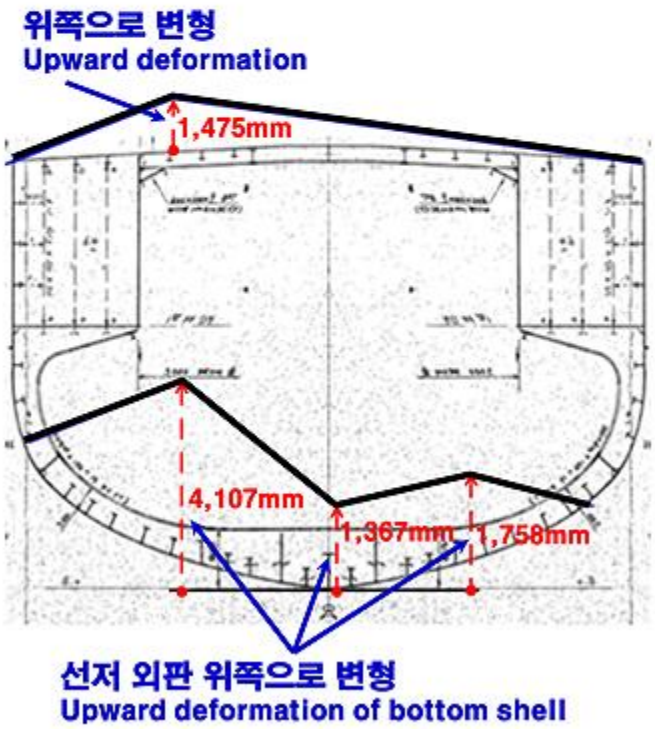




Cause of Incident

(1) External Explosion Proof : configuration

함 수 절 단 면
Bow Breakplane

단면도 Section Plan	사진 Image
	

Cause of Incident

(1) External Explosion Proof : damage analysis

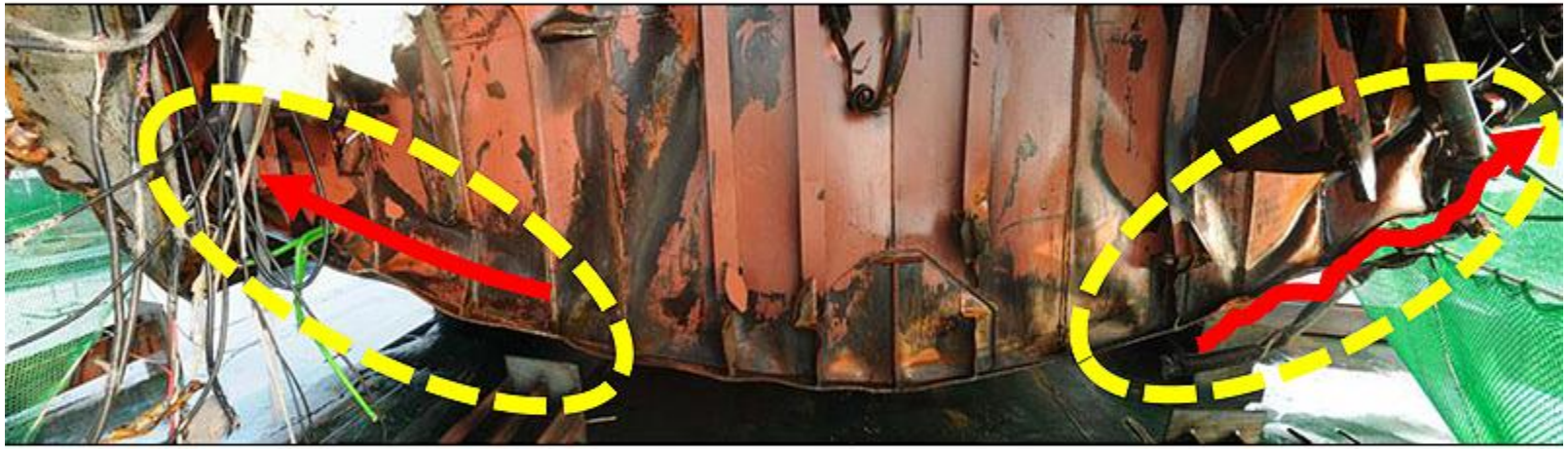
절 단 면
Breakplane

우측으로 말려 올라간 용골
Keel bent upward to the right

Cause of Incident

(1) External Explosion Proof : damage analysis

절 단 면
Breakplane



뒤틀려 있는 좌현
Twisted portside

Cause of Incident

(1) External Explosion Proof : damage analysis

선 체 외 부
Hull Exterior

연돌•디미스트
Stack • Demist

Cause of Incident

(1) External Explosion : JIG Conclusion

- Other possible causes groundless
  - running aground, fatigue fracture, faulty maintenance etc

Cause of Incident

(1)External explosion

(2) Torpedo Explosion

(3) NK manufactured

Cause of Incident

(2) Torpedo Explosion (JIG Conclusion)

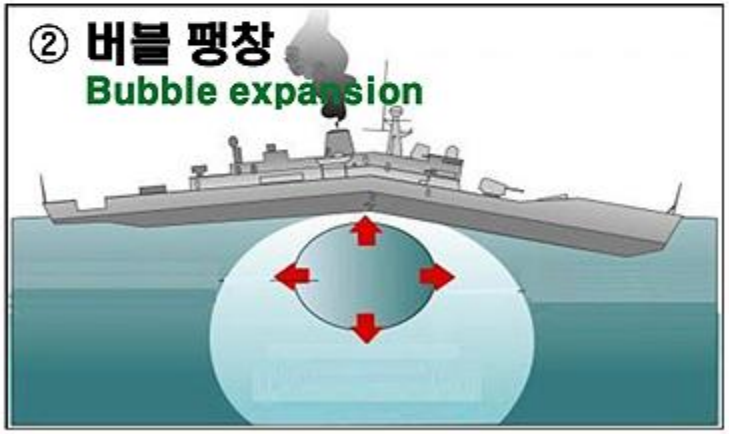
- Beneath the gas turbine room
- Bottom left(portside) of the ship
- Bubble and jet effect

Cause of Incident

(2) Torpedo Explosion (What Happens?)

정예화된 선진강군

버 블 진 행 과 정 (1/3)
Bubble Process

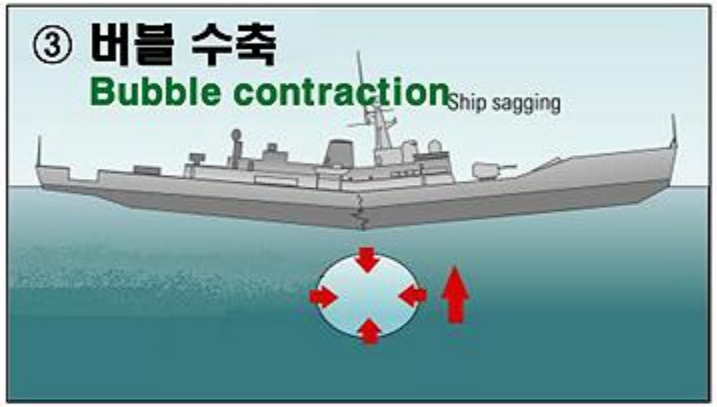


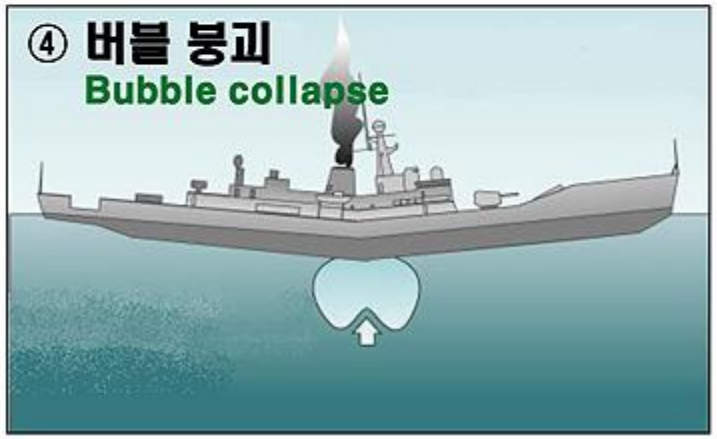
Cause of Incident

(2) Torpedo Explosion (What Happens?)

정예화된 선진강군

버 블 진 행 과 정 (2/3)
Bubble Process



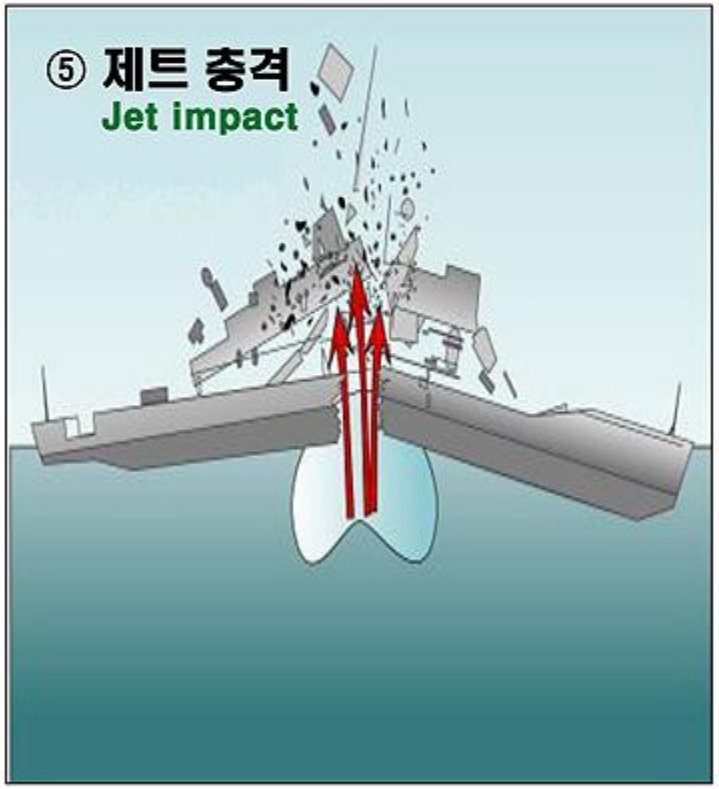


Cause of Incident

(2) Torpedo Explosion (What Happens?)

정예화된 선진강군

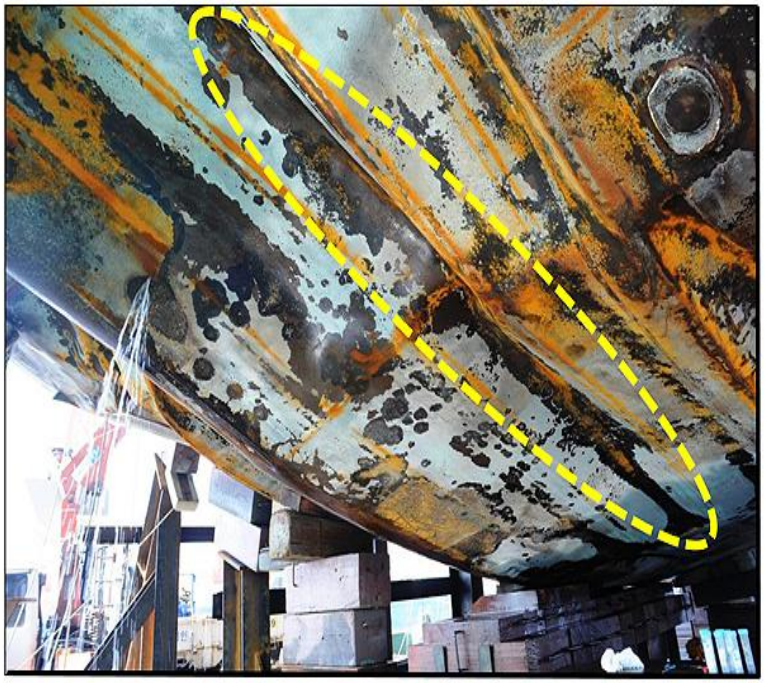
버 블 진 행 과 정 (3/3)
Bubble Process



Cause of Incident

(2) Torpedo Explosion Proof ①: Bubble

절 단 면
Breakplane



우현 바닥 버블 흔
Trace of bubble on the starboard side bottom

절 단 면
Breakplane

선저부 압력흔
Water pressure marks at the hull bottom

Cause of Incident

(2) Torpedo Explosion Proof ①: Bubble

절 단 면
Breakplane

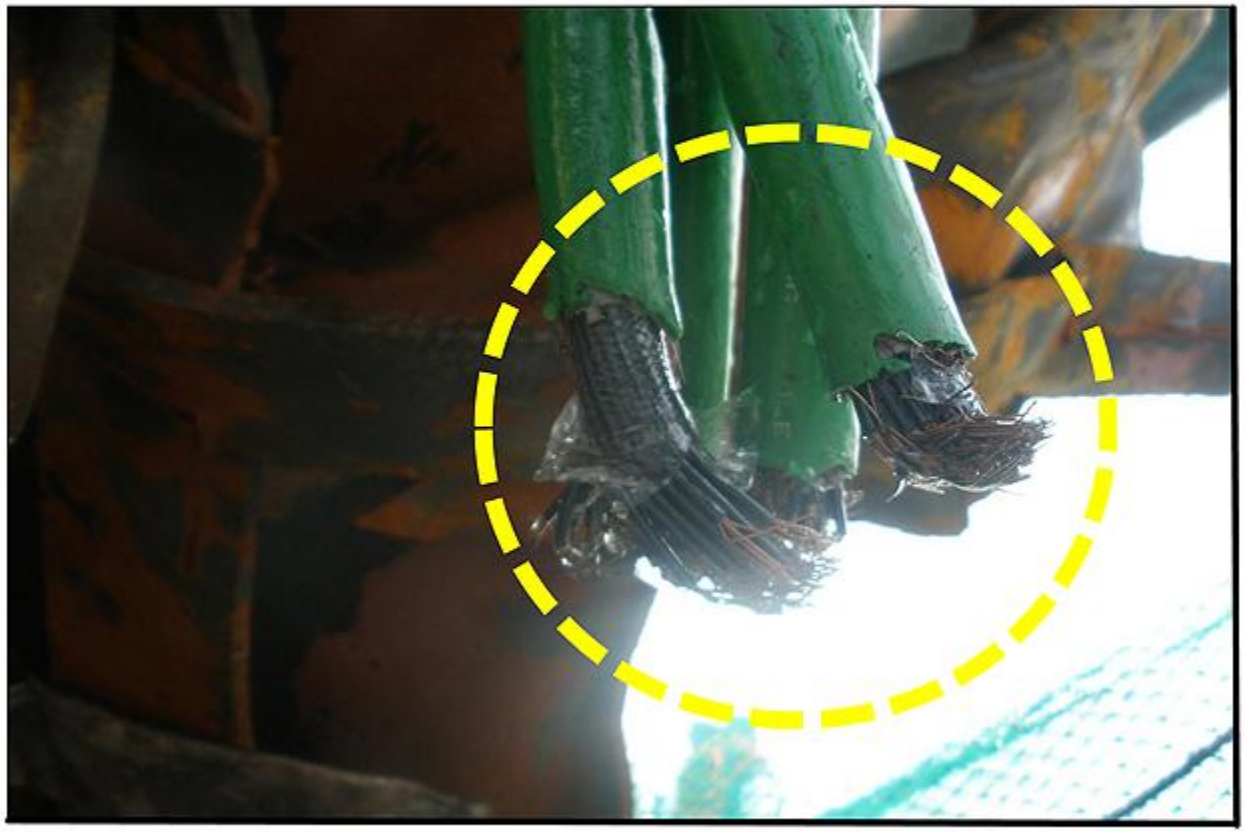
좌현 함 안정기 바깥쪽

Outer surface of the stabilizing fin at the portside bottom

Cause of Incident

(2) Torpedo Explosion Proof ①: Bubble

절 단 면
Breakplane

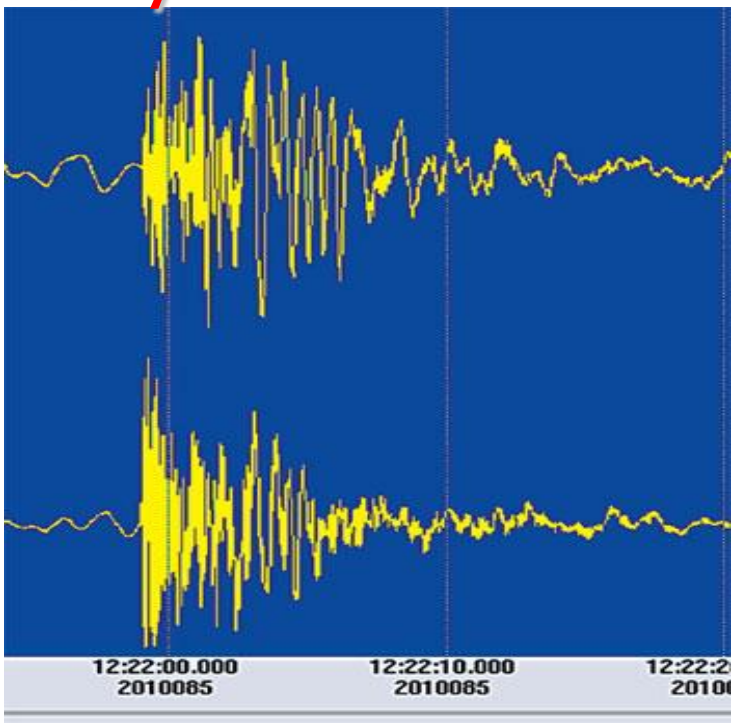


절단된 배선
Truncated wiring

Cause of Incident

(2) Torpedo Explosion Proof ②: Wave/Testimony

- Seismic wave:1.5
- 2 infrasound wave: 1.1 second interval
- Testimony
  - 2 explosion sound
  - Pillar of white flash
- Medical exam
  - No fragmentation/burn
  - Fractures, lacerations

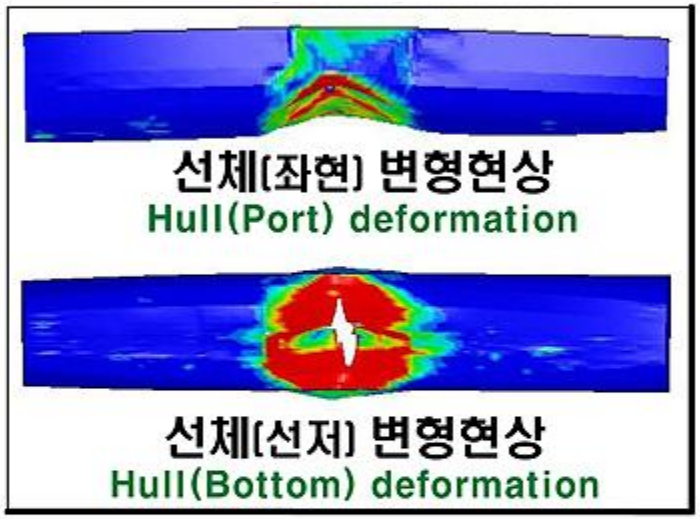


KMA Seismograph near Baengnyong Is.

Cause of Incident

(2) Torpedo Explosion Proof ③: Simulation

시뮬레이션 결과
Simulation Result



가스터빈실 좌현 3m, 수심 6~9m에서
고성능 폭약 250kg 규모가 폭발시, 천안함 변형현상과 유사

Explosion of about 250kg high explosive at 6~9m in water depth and at 3m to port from center line of gas turbine room results in similar deformation as seen on ROKS Cheonan

Cause of Incident

(2) Torpedo Explosion Proof ④: Evidence

□ 수거 일시 / 위치 Recovery time & location

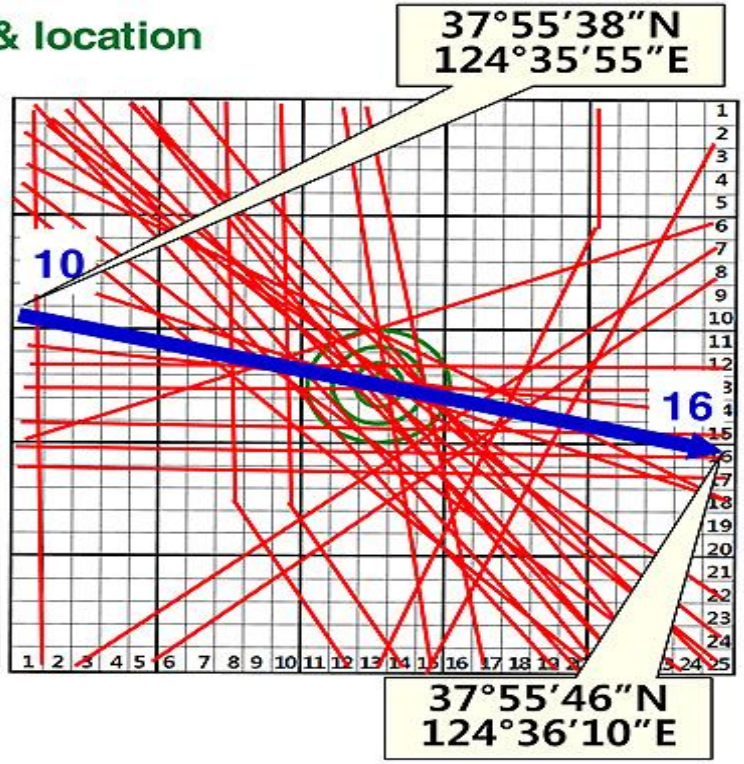
❍ 일시 : ’ 10. 5. 15(토) 09:25경

Time : 0925 hrs, 15 May ’10 (Sat)

❍ 위치 : 폭발원점 주변

(37°55’45”N 124°36’02”E)

Location : Around the point of explosion



Cause of Incident

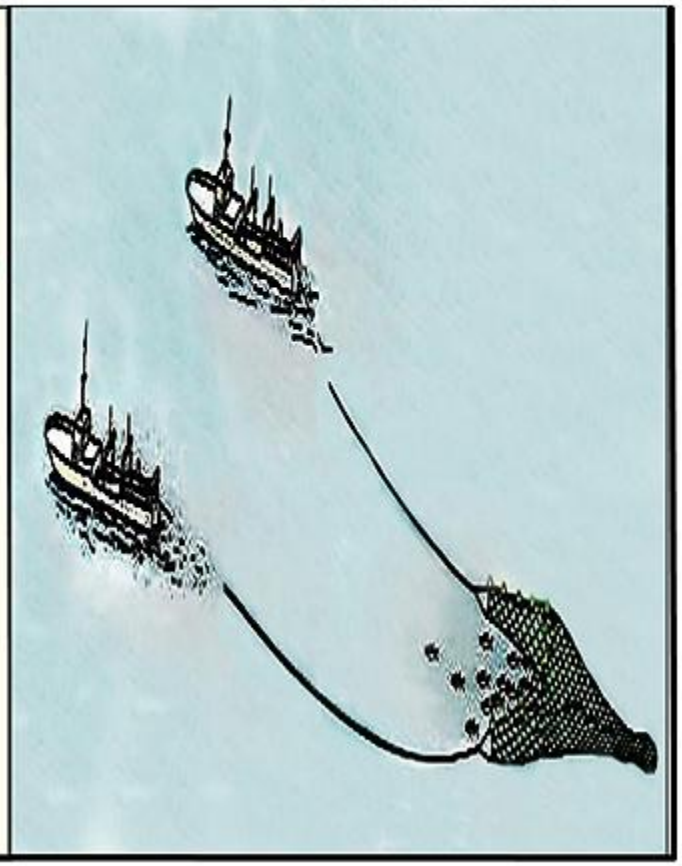
(2) Torpedo Explosion Proof ④: Evidence

결정적 증거물
Critical evidence

정예화된 선진강군

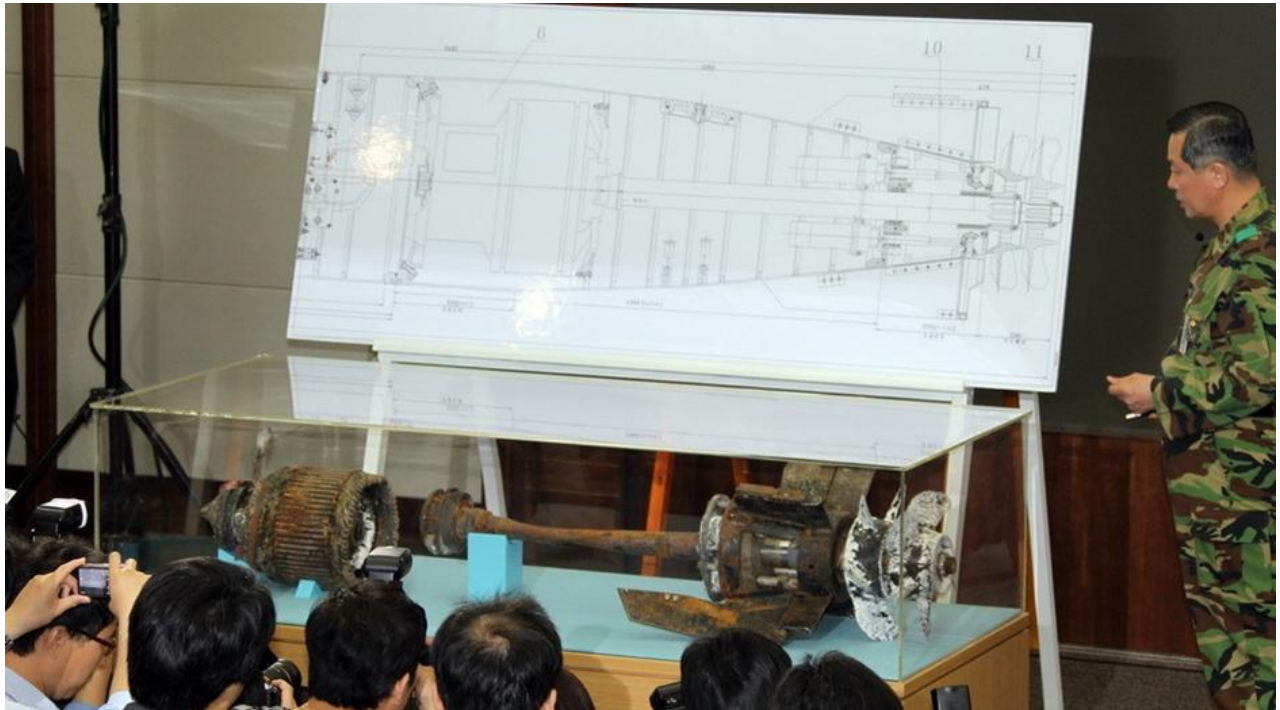
❑ 수거작전 Operation

- ❍ 그물코 : 5mm
  Net loop : 5mm
- ❍ 크기 : 폭 25m, 높이 15m, 길이 60m (5t)
  Size : 25m wide, 15m high, 60m long (5t)
- ❍ 제작기간 : 4. 21~ 28 (1주일)
  Manufacture : 21~28 Apr. (1 week)
- ❍ 운용선박 : 135톤 2척
  Operation Ship : two 135ton ships
- ❍ 시험운용 : 5. 3 (외곽지역)
  Test : 3 May (outer region)
- ❍ 수거작전 : 5. 10 ~ 현재
  Operation : 10 May~ Present



Cause of Incident

(2) Torpedo Explosion Proof ④: Evidence

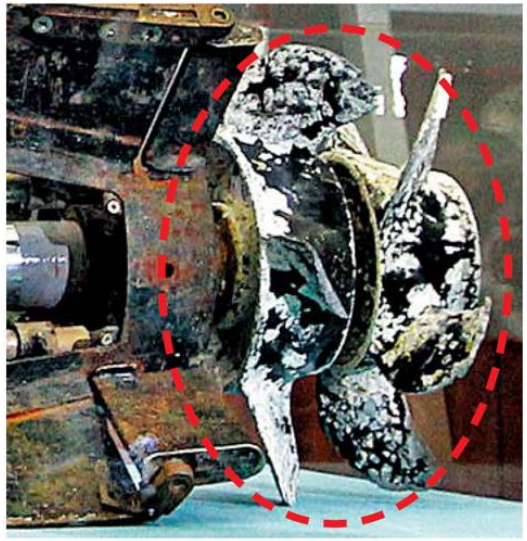


Cause of Incident

(2) Torpedo Explosion Proof ④: Evidence

- Explosive compounds found on torpedo match that found on Cheonan
- Level of corrosion of torpedo match that of ship
- Discovery location near explosion site

➡ **Retrieved torpedo was responsible for the sinking of Cheonan**



Cause of Incident

(1) External explosion

(2) Torpedo explosion

(3) NK Manufactured Torpedo

Cause of Incident

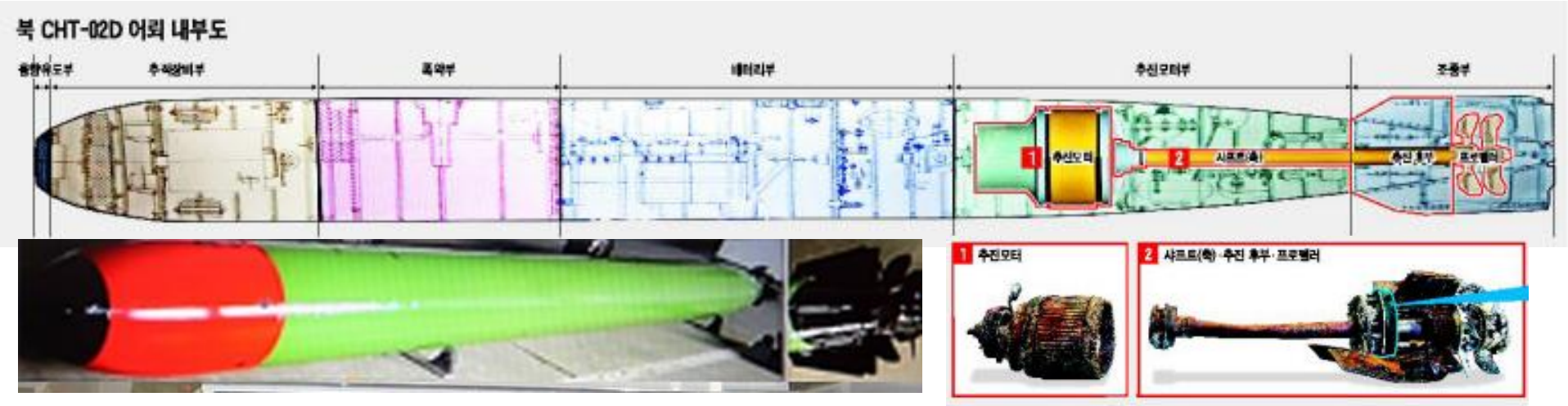
(3) NK Made Torpedo (JIG Conclusion)

- The torpedo responsible for the sinking of the Cheon was manufactured by NK

Cause of Incident

(3) NK Manufactured Torpedo : Proof ①

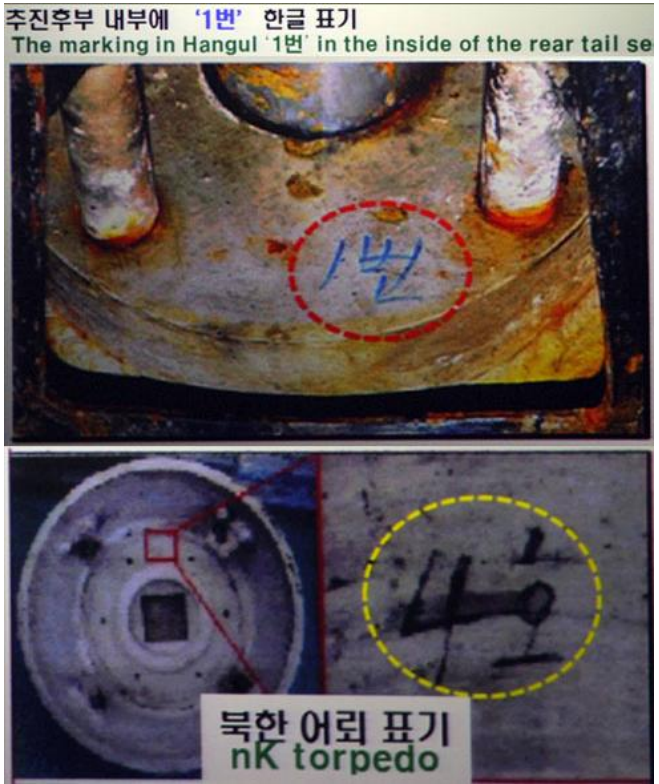
- Parts recovered match NK CHT-02D schematics
  - Schematics found in NK introductory brochure for export purposes



Cause of Incident

(3) NK Manufactured Torpedo : Proof ②

- Markings of Hangul('1번') consistent with marking and pattern with other NK torpedo('4호')
- CHT-02D specs capable of sinking Cheonan



Responsibility

Intel Confirms NK Responsibility

- NK subs + torpedoes
  - 20 Romeo, 40 Sango, 10 midget subs
- One Sango and Yeono class sub left base 2-3 days prior, returned 2-3 days after attack
  - Other country subs near base or docked
- Torpedo was made in NK

Response Measures

Response Measures
(President Lee's Address to the People)

- Military provocation against Korea
- Violates the UN Charter
- Violates existing agreement between South and North for peace and stability
  - the Armistice, inter-Korean Basic Agreement

Response Measures
(President Lee's Address to the People)

- Prohibit NK vessels passing through shipping lanes within Korean waters
- Suspend inter-Korean trade and exchange
  - Humanitarian assistance to children and infants exempted
- Kaesung I.C. duly considered
- Refer the matter to the UNSC

Response Measures
(President Lee's Address to the People)

- Korea will no longer tolerate any provocative act by the North
- Maintain the Principle of Proactive Deterrence
  - Korea to exercise self-defense should NK militarily invade its territory, territorial water and airspace
- Urge NK
  - To apologize and immediately punish those responsible
  - To change and start thinking for its people.

Response Measures
(President Lee's Address to the People)

- Korea's goals
  - Attainment of peace and stability of KP
  - Bring about prosperity for all Koreans
  - Realize the vision of peaceful reunification
- KP must not be the last standing danger zone
- Need to solidify national security readiness, strengthen ROK-US joint readiness

Response Measures
(Inter-Korean)

- Prohibit NK vessels from entering Korean waters and ports
- Suspend inter-Korean trade
  - Prohibit imports of NK goods, deny business (processing on commission) projects
- Deny application by S. Koreans
  - New investment and expanding current ones
  - Visits to NK (other than Kaesung, Keumgang)
- Suspend assistance projects
  - Humanitarian assistance to vulnerable groups exempt

Response Measures
(Military)

- Resume psychological warfare
- Conduct ROK-US combined anti-submarine exercise
- PSI maritime interdiction exercises within the region and beyond
- Prohibit entry of NK vessels into Korean waters

➡ Further military and non-military measures contemplated based on NK response

Response Measures
(Diplomatic)

- Pursue all possible diplomatic responses
  - Close coordination with US: Ministerial, 2+2, Summit
  - Close consultations with Japan, NATO, EU
  - Active discussions with China, Russia
- Take the matter to the UNSC
- Strengthen implementation of UNSC 1874, 1718
- Active participation in PSI

Conclusion

Thank You