

Report

DAMAGES CAUSED BY STORM LEKIMA (STORM NO. 5) AND FLOODS AFTER THE STORM RELIEF ACTIVITIES AND DAMAGE RECOVERY

Ha Noi, 22/10/2007

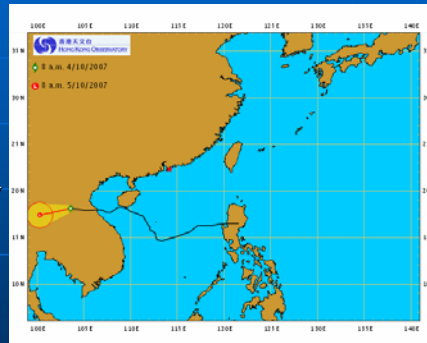
I. Development of storm Lekima and rain and flood situation

■ Storm:

3/ 10: Landed on Ngang mountain pass, a narrow path between Ha Tinh and Quang Binh provinces. The strongest wind force near Storm center reaching scale 12 and gusts reaching scale 12 on the Beaufort Scale

■ Rain:

The storm brought heavy rains and very heavy rains to nine provinces of T.T. Huế, Quảng Trị, Quảng Bình, Hà Tĩnh, Nghệ An, Thanh Hóa, Ninh Bình, Sơn La and Hòa Bình. The rainfall was mostly from 300mm to 400 mm, in some stations such as: Lệ Thủy (Quang Bình): 501mm; Hưng Thi (Hòa Bình): 518 mm; Bất Mọt (Thanh Hóa): 788mm.



I. Development of storm Lekima and rain and flood situation (continued)

- **Floods:**

A big flood appeared in the rivers of Nghe An, Thanh Hoa and Ninh Binh provinces. Water level of some rivers exceeded the historical flood peak such as: Hieu river in Quy Chau: 80,19 m, 0,15m higher than historical flood peak in 1988; Bui River in Thach Thanh: 0,85m higher than the historical flood peak in 1996; Do Len bridge: 0,75m higher than historical flood peak.

- **Flash floods and flooding:**

Five provinces suffered from severe flooding include: Son La, Hòa Bình, Ninh Bình, Thanh Hóa and Nghệ An.

Three provinces occurred flash floods and landslides include: Nghệ An (Quê Phong district), Sơn La (Mộc Châu, Yên Châu, Sốp Cộp districts) and Hòa Bình (Hung Thi, Mai Châu districts).

Big floods caused flooding on a large scale in these provinces



I. Development of storm Lekima and rain and flood situation (continued)

- **Floods in Central provinces from Quang Binh to Quang Ngai (14-17/10):**

From 14 to 17 October, due to the influence of cool air, there were heavy rains and very heavy rains in provinces from Quang Binh to Quang Ngai. The average rainfall was from 200 to 300mm (within 72 hours).

Flood in rivers of Quảng Trị, Thừa Thiên Huế and Quảng Ngãi provinces exceeded warning level III



II. Direction and damage recovery

- **Central level:**
 - The Prime Minister, CCFSC- National Committee for Search and Rescue, Ministries and industries sent many telegraphs to provide on the spot guidance to deal with the storm and floods.
 - The Prime Minister Nguyen Tan Dung and Deputy Prime Ministers directed and inspected the preparedness with the storm and damage recovery in the affected provinces
 - CCFSC, MARD and National Committee for Search and Rescue, Ministries and industries sent Missions to Quang Binh, Ha Tinh, Nghe An, Thanh Hoa, Ninh Binh, Son La and other provinces affected by the storm and floods to provide guidance and overcome the consequences of the storm and floods.
- **Local level:**
 - Authorities at all level violently implemented measures to deal with the storm and floods
 - Social organizations and internal and external individuals raised funds and supported to affected people.

III. Results

- Inform and call back 37.313 fishing vessels/ 220.353 fishermen, asking those at sea to be proactive in preparedness and seek safe harbors
- Evacuate 84.719 people/ 17.656 households of 93 communes in 14 districts before storm.
- Evacuate 131.308 people and 46.034 households before and during the flood.
- Armed forces mobilize 7.550 soldiers to participate in flood and storm control and dyke protection
- Mobilize 31.166 civil defenses, young people to participate in flood and storm control and dyke protection
- Mobilize 308 different means include: motors, boats, ships and 3 helicopters



IV. Damage situation

1. **Damages caused by storm Lekima and floods after the storm (3-10/10/2007):**
 - Died and missing people: 96 (85 died of flood and 3 died of storm; and 8 missing). Nghe An suffered the worst human losses with 37 deaths;
 - Injured people: 180;
 - Collapsed and drifted houses: 1,853;
 - Flooded and damaged houses: 111,770;
 - Flooded and damaged paddy fields: 47,736 ha (completely loss: 8,849 ha);
 - Irrigation, transportation and dike constructions eroded: over 3 million m³ of land;
 - Boats and ships sunk and damaged: 80



IV. Damage situation (continued)

- Electric poles broken: 6,360;
 - Total estimated economic loss: 3.215 billion VND
2. **Damages caused by rain and flood in central provinces (14-17/10/2007):**
 - Died and missing: 24 people (19 died and 5 missing)
 - Injured: 6 people
 - Collapsed and drifted houses: 37
 - Flooded and damaged houses: 76.267;
 - Flooded and damaged paddy fields: 2,050 ha
 - Total damages in cash: 220 billion VND



V. Damage recovery

- Government Decided to support 289 billion VND and 7050 tonnes of rice for damage recovery. The provinces include: Son La: 19 billion and 50 tonnes, Hoa Binh: 18 billion, Ninh Binh: 44 billion and 1,000 tonnes, Thanh Hoa: 81 billion and 3,000 tonnes, Nghe An: 42 billion and 1,500 tonnes of rice, Ha Tinh: 45 billion, Quang Binh: 22 billion and 500 tonnes, Quang Tri: 5 billion, Ha Nam: 5 billion, Phu Tho: 8 billion
- Localities, Ministries and sectors supported 2,284 tonnes of rice, 68.5 tones of instant noodle, 11,000 kg glue, 3,500 kg of Cloramin B (flour) and 111 million Cloramin B (tablets), 230 medical blocks and 130 medical kits, seed maize and seed rice to the provinces for damage recovery.

V. Damage recovery

Damaged houses, schools and health stations have been mostly repaired.

Almost people returned their houses. Currently, there still be 2,000 households/ 8,000 people in Gia Vien and Nho Quan districts, Ninh Binh province have not yet returned their houses due to their houses were still being flooded.

Electric and communication system have been repaired

Transport roads damaged by storm (highways, provincial roads) have been mostly repaired. And some other roads eroded due to the flood (14-17/10) have been being repaired.

Dyke system and reservoirs have been being repaired

VII. Works need to be continued

1. Short-term works
 - Continue to overcome the consequences of storm and floods, rapidly stabilize people life in the affected areas. Prevent epidemic and clean the environment
 - Continue to monitor and assess the damages caused by storm and floods in order to provide assistance to the affected people, as appropriate.
 - Quickly repair irrigation, transportation, infrastructure, communication, school and health station constructions
 - Support seeds for production

VII. Works need to be continued (continued)

2. Long-term works
 - Non-structural measures:
 - Strengthen material facilities and sources for forecast and warning system
 - Plan and remove inhabitants living in disaster-prone areas to safer places, and zone flash flood and landslide
 - Mainstream flood and storm control program in to socio-economic development process
 - Propagandize and raise awareness on natural disasters, preparedness, prevention and consequences recovery

VII. Works need to be continued (continued)

Structural measures:

- Repair and upgrade dyke system
- Accelerate the progress of reservoirs and constructing more reservoirs and irrigation works
- Reinforce transportation system and infrastructures in flooding areas
- Promote the implementation of programs: sea dyke system, safe plan for fishermen, parking places for boats and ships, communication system at sea and safe plan for inhabitants living in flooding areas and forestation plan...

VIII. Immediate emergency relief needs

Thanh Hóa:

- Seeds, food and vegetable : 5,130 tonnes
- Total budget: 300 billion VND (for repairing damaged houses and infrastructures)

Nghe An:

- Food: 4,050 tonnes rice
- Total budget: 100 billion VND (for repairing damaged houses and infrastructures)

Ninh Bình:

- Seeds, food and vegetable: 1,010 tonnes
- Life jackets: 2,000
- High speed boats: 10
- Tents: 50
- Total budget: 50 billion VND (for repairing damaged houses and infrastructures)

VIII. Immediate emergency relief needs (continued)

Hà Tĩnh:

- Motor-boats: 12 boats (85-90cv)
- Bags: 60,000 bags
- Wave preventing canvas: 60,000m²
- Total budget: 295 billion VND (for repairing damaged houses and infrastructures)

- Life jackets: 500
- Tents: 120

Quảng Bình:

- Rice: 2,000 tonnes
- Instant noodles: 500 tonnes
- Life buoys: 1,000
- Tents: 14
- Budget for repairing damaged houses and infrastructures

- Steel cages: 1,000
- Motor-boats: 5
- Bags: 35,000

Quảng Trị:

- 500 tonnes of rice, 200 boats, 15,000 life jackets,
- Budget: 25 billion VND (for repairing damaged houses and infrastructures)

VIII. Immediate emergency relief needs (continued)

Thừa thiên Huế:

- Rice: 1,000 tonnes, seeds: 880 tonnes, young livestock: 16,200
- Budget: 40 billion VND (for repairing damaged houses and infrastructures)

Quang Ngãi:

- Budget: 10 billion VND (for repairing damaged houses and infrastructures)

Son La:

- Budget: 100 billion VND (for repairing damaged houses and infrastructures)

Hoa Bình:

- Budget: 50 billion VND (for repairing damaged houses and infrastructures)

THANK YOU FOR YOUR ATTENTION

