

## **Tropical cyclone warnings of Signal No. 8 or above issued by the Observatory during the passage of Rose in August 1971**

Tropical Cyclone Warning issued at 10:30 a.m. 16 August 1971 by Royal Observatory.

The Northeast Gale or Storm Signal, that is No. 7\*, was hoisted at 9:50 a.m. which means that winds with mean speed 34 knots or more are expected from the northeast quarter.

At 10 a.m., Typhoon Rose was centred about 120 nautical miles south of Hong Kong and was moving north at 7 knots.

Typhoon Rose has continued to move northwards in the general direction of Hong Kong and the centre is expected to pass within 60 miles of the Colony early tomorrow morning.

Barometric pressure locally is falling steadily.

Already winds over the Colony are strong. Gusts of 44 knots have been recorded at Waglan Island and 40 knots at Kai Tak Airport during the last hour.

Winds are expected to increase further and reach gale force during the evening.

At 10 a.m., the centre of Typhoon Rose was near 20.5 degrees north, 114.2 degrees east.

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Tropical Cyclone Warning issued at 11:30 a.m. 16 August 1971 by Royal Observatory.

The Northeast Gale or Storm Signal, that is No. 7\*, was hoisted at 9:50 a.m. which means that winds with mean speed 34 knots or more are expected from the northeast quarter.

At 11 a.m., Typhoon Rose was centred about 110 nautical miles south of Hong Kong and was moving north at about 7 knots.

Winds over the Colony are already generally strong and have reached gale force on the tops of hills. Gusts of 52 knots have been recorded at Tate's Cairn and Waglan and 53 knots at Cheung Chau.

Typhoon Rose has continued to move northwards in the general direction of Hong Kong and the centre is expected to pass within 50 nautical miles of the Colony early tomorrow morning.

The eye of Rose has a diameter of 20 nautical miles and a ship, the S.S. Nuddea near the edge of the eye reported winds of 110 knots.

Rose is forecast to bring at least 150 millimetres, or six inches, of rain.

At 11 a.m., the centre of Typhoon Rose was near 20.6 degrees north, 114.1 degrees east.

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Tropical Cyclone Warning issued at 12:45 p.m. 16 August 1971 by Royal Observatory.

The Southeast Gale or Storm Signal, that is No. 8\*, was hoisted at 12:25 p.m. which means that winds with mean speed 34 knots or more are expected from the southeast quarter.

At noon, Typhoon Rose was centred about 100 miles south of Hong Kong and was moving north at about 7 knots.

Winds over the Colony are generally strong and have reached gale force on hilltops and in other exposed places. Gusts of 75 knots have been recorded at Tai Mo Shan and 54 knots at Cape Collinson and Cheung Chau.

During the past hour Rose has continued to move northwards in the general direction of Hong Kong and the centre now appears most likely to come within 40 nautical miles to the west of the Colony early tomorrow morning.

The eye of the typhoon is clearly defined on the Observatory's primary weather radar and is about 20 nautical miles in diameter. Winds in the wall of the eye are estimated to be just over 100 knots.

Rose is forecast to bring at least 150 millimetres, that is six inches, of rain.

At noon, the centre of Typhoon Rose was near 20.7 degrees north, 114.0 degrees east.

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Tropical Cyclone Warning issued at 1:30 p.m. 16 August 1971 by Royal Observatory.

The Southeast Gale or Storm Signal, that is No. 8\*, was hoisted at 12:25 p.m. which means that winds with mean speed 34 knots or more are expected from the southeast quarter.

At 1 p.m., Typhoon Rose was centred about 95 miles south of Hong Kong and was moving north at 7 knots in the general direction of Hong Kong. The centre now appears most likely to cross the coast close to the west of Hong Kong early tomorrow morning.

Winds over the Colony are now easterly and gale force on hilltops and in other exposed places. As the centre approaches, winds are expected to increase in strength and to change direction to southeasterly. Gusts of over 50 knots have been reported in several places during the past hour.

The eye of the typhoon is clearly defined on the Observatory's radar and is about 20 miles in diameter. Winds in the wall of the eye are estimated to be just over 100 knots.

Rose is forecast to bring at least 150 millimetres, that is six inches, of rain.

At 1 p.m., the centre of Typhoon Rose was near 20.7 degrees north, 114.0 degrees east.

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Tropical Cyclone Warning issued at 2:30 p.m. 16 August 1971 by Royal Observatory.

The Southeast Gale or Storm Signal, that is No. 8\*, is still hoisted which means that winds with mean speed 34 knots or more are expected from the southeast quarter.

At 2 p.m., Typhoon Rose was centred 92 miles south of Tate's Cairn Radar Station and was moving north at 6 knots. During the last hour Rose has slowed down a little, but is still heading toward the coast close to the west of Hong Kong.

Winds over the Colony are strong to gale force and are expected to increase slowly during the afternoon.

The eye of the typhoon is still clearly defined on the Royal Observatory's radar and is now about 15 miles in diameter.

Rose is expected to bring at least 150 millimetres, that is about six inches, of rain to the Colony.

At 2 p.m., the centre of Rose was near 20.8 degrees north, 114.0 degrees east.

There is no new information about wind strengths near the centre, but near the edge of the eye, they are estimated to be about 100 knots.

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Tropical Cyclone Warning issued at 3:30 p.m. 16 August 1971 by Royal Observatory.

The Southeast Gale or Storm Signal, No. 8\*, is still hoisted which means that winds with mean speed 34 knots or more are expected from the southeast quarter.

At 3 p.m., Typhoon Rose was centred about 87 miles south of Tate's Cairn Radar Station and was moving north at about 5 knots.

Present indications are that it will be closest to Hong Kong early tomorrow.

Winds over the Colony are strong to gale force and gusts of 50 knots at Tate's Cairn and 48 knots at the Royal Observatory have been recorded in the last hour.

During the last hour, Rose has continued to move north. The eye is still small and now has a diameter of 16 miles.

At 3 p.m., the centre of Rose was near 20.9 degrees north, 114.0 degrees east.

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Tropical Cyclone Warning issued at 4:30 p.m. 16 August 1971 by Royal Observatory.

The Southeast Gale or Storm Signal, that is No. 8\*, is still hoisted which means that winds with mean speed 34 knots or more are expected from the southeast quarter.

At 4 p.m., Typhoon Rose was centred about 81 miles south of Tate's Cairn Radar Station and was moving north at about 5 knots.

Present indications are that it will be closest to Hong Kong in the early hours of tomorrow morning.

Winds over the Colony are increasing and gusts of 65 knots have been recorded at Tate's Cairn, 62 knots at Cape Collinson and 61 knots at Cheung Chau in the last hour.

So far today, a total of 27.6 millimetres, that is about 1 inch, of rain has been recorded at the Royal Observatory. At least another 125 millimetres, about 5 inches, are expected in the next 24 hours.

At 4 p.m., the centre of Rose was near 21.0 degrees north, 114.0 degrees east.

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Tropical Cyclone Warning issued at 5:30 p.m. 16 August 1971 by Royal Observatory.

The Southeast Gale or Storm Signal, that is No. 8\*, is still hoisted which means that winds with mean speed 34 knots or more are expected from the southeast quarter.

At 5 p.m., Typhoon Rose was centred about 76 miles south of Tate's Cairn Radar Station and was moving north at about 5 knots.

Winds over the Colony are still increasing, and east or southeasterly gales are blowing in all areas except places sheltered from these directions. Gusts of 62 knots have been recorded at Tate's Cairn and 61 knots at the Royal Observatory in the last hour.

At present, tides are only about one foot above normal. If the typhoon passes very close to the Colony, they could rise about three to four feet above the normal predicted level in Victoria Harbour and possibly six or seven feet in Tolo Harbour.

At 5 p.m., the centre of Rose was near 21.1 degrees north, 114.0 degrees east.

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Tropical Cyclone Warning issued at 6:30 p.m. 16 August 1971 by Royal Observatory.

The Southeast Gale or Storm Signal, that is No. 8\*, is still hoisted which means that winds with mean speed 34 knots or more are expected from the southeast quarter.

At 6 p.m., Typhoon Rose was centred about 72 miles south of Tate's Cairn Radar Station and was moving north at about 5 knots.

Present indications are that it will be closest to Hong Kong early tomorrow morning.

Winds over the Colony continue to increase and gusts of 70 knots have been recorded at Tate's Cairn, 68 knots at Cheung Chau and 64 knots at the Royal Observatory in the last hour.

So far Rose has brought nearly 30 millimetres, that is about 1 inch, of rain to the Royal Observatory, and in all about 150 millimetres, that is about 6 inches, is expected in the next 24 hours.

At present, tides are about 1 foot above normal, and if the typhoon passes close to the Colony, they may rise to 3 to 4 feet above the predicted level in Victoria Harbour and 6 to 7 feet in Toro Harbour. If the storm surge occurs near high tide at about 7 a.m. then serious flooding could occur in low lying areas.

At 6 p.m., the centre of Rose was near 21.2 degrees north, 114.0 degrees east.

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Tropical Cyclone Warning issued at 7:30 p.m. 16 August 1971 by Royal Observatory.

The Southeast Gale or Storm Signal, that is No. 8\*, is still hoisted which means that winds with mean speed 34 knots or more are expected from the southeast quarter.

At 7 p.m., Typhoon Rose was centred about 67 miles south of Tate's Cairn Radar Station and was moving north at about 5 knots.

Winds over the Colony are still increasing and the mean wind at Waglan Island is now 50 knots. Gusts of 78 knots have been recorded at Tate's Cairn and 66 knots at Cheung Chau in the last hour.

A total of about 150 millimetres, that is around six inches, of rain are expected in the next 24 hours.

At present tides are about one and a half feet above normal. And if the typhoon passes close to the Colony, they may rise to 3 to 4 feet above the predicted level in Victoria Harbour and 6 to 7 feet in Tolo Harbour. If the storm surge occurs near high tide at about 7 a.m. then serious flooding could occur in low lying areas.

At 7 p.m. the centre of Rose was near 21.3 degrees north, 114.0 degrees east.

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Tropical Cyclone Warning issued at 8:30 p.m. 16 August 1971 by Royal Observatory.

The Southeast Gale or Storm Signal, that is No. 8\*, is still hoisted which means that winds with mean speed 34 knots or more are expected from the southeast quarter.

At 8 p.m., Typhoon Rose was centred about 62 miles south of Tate's Cairn Radar Station and was moving north at about 5 knots.

Winds over the Colony are still increasing and the mean wind at Waglan is 50 knots. Gusts of 91 knots have been recorded at Tate's Cairn.

Rainfall from Rose has given only about 1 inch of rain, but heavy rain bands are approaching from the south and heavier rain is expected after midnight.

Tides are now two and a half feet above normal at Tai Po and is expected to rise further to cause flooding of low lying areas during the night and tomorrow morning.

At 8 p.m., the centre of Rose was near 21.4 degrees north, 114.0 degrees east.

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Tropical Cyclone Warning issued at 9:30 p.m. 16 August 1971 by Royal Observatory.

The Increasing Gale or Storm Signal, that is No. 9, was hoisted at 9:10 p.m. which means that winds are expected to increase significantly as Typhoon Rose moves closer to the Colony.

At 9 p.m., Typhoon Rose was centred about 44 miles south of Cheung Chau and was moving north at about 6 knots.

Winds over the Colony have increased significantly during the past hour. Mean winds of 62 knots have been reported at Cheung Chau and 55 knots at Waglan.

Heavy rain bands are approaching from the south and heavier rain is expected after midnight.

Tides are now about 2 feet above normal. The sea level may rise to 4 feet above normal in Victoria Harbour and 7 feet in Tolo Harbour. The storm surge is forecast to reach this maximum tomorrow morning when the normal predicted tides are around 7 feet. Consequently serious flooding now seems probable in low lying areas, particularly Shatin, Tai Po and Sha Tau Kok.

At 9 p.m., the centre of Rose was near 21.5 degrees north, 114.0 degrees east.

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Tropical Cyclone Warning issued at 10:30 p.m. 16 August 1971 by Royal Observatory.

The Increasing Gale or Storm Signal, that is No. 9, is still hoisted. which means that winds are expected to increase significantly.

At 10 p.m., Typhoon Rose was centred about 37 miles south of Cheung Chau and was moving north at about 7 knots.

Winds over the Colony are generally storm force with hurricane force winds now in exposed places. Winds of 68 knots have been recorded at Cheung Chau and 59 knots at Waglan. Gusts of 91 knots at Cheung Chau and 87 knots at Tate's Cairn have been recorded in the last hour.

During the past hour, the atmospheric pressure has started to fall much more rapidly and winds have reached hurricane force in exposed places. As the centre of typhoon Rose approaches, winds are expected to increase further and the level of the sea is expected to rise about 4 feet above normal high tide in Victoria Harbour and about 7 feet above normal high tide in Tolo Harbour. Serious flooding now seems probable in low lying areas, particularly Shatin, Tai Po and Sha Tau Kok.

At 10 p.m., the centre of Rose was near 21.6 degrees north, 114.0 degrees east.

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Tropical Cyclone Advisory Warning issued at 11:15 p.m. 16 August 1971 by Royal Observatory.

The Hurricane Signal, that is No. 10, was hoisted at 10:50 p.m. which means that winds with mean speed 64 knots or more are expected.

At 11 p.m., Typhoon Rose was centred about 22 miles south of Lantao and was moving north at 8 knots.

Winds are still increasing and gusts of 103 knots have been recorded at Cheung Chau during the last hour.

Winds are expected to continue to increase from the southeast for the next 2 hours. The northern edge of the eye is forecast to reach the Colony waters just to the south of Lantao around 1 a.m.

As the eye moves further north there will be a lull in the winds lasting as long as 2 or 3 hours over the western parts of the Colony. Over the eastern parts of the Colony winds will turn to southerly with only a slight temporary decrease in strength.

Rainfall is expected to become much heavier and flooding and landslips are probable.

The sea is expected to rise 3 or 4 feet above normal in Victoria Harbour and even higher in Tolo Harbour and Starling Inlet.

At 11 p.m., the centre of Rose was near 21.9 degrees north, 114.0 degrees east.

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Tropical Cyclone Warning issued at 11:45 p.m. 16 August 1971 by Royal Observatory.

The Hurricane Signal, that is No. 10, is still hoisted. which means that winds with mean speed 64 knots or more are expected.

At 11:30 p.m., Typhoon Rose was centred about 18 miles south of Lantau and was moving north at 10 knots.

Storm to hurricane force winds and gusts of over 80 knots are being experienced in most places.

At 11:30 p.m., the northern edge of the eye was 14 miles south of Lantau. As the eye moves over the western parts of the Colony, there will be a lull in the winds lasting as long as 2 or 3 hours. Over the eastern part of the Colony winds will change to southerly with only a slight temporary decrease in strength.

Rainfall is expected to become much heavier during the remainder of the night and flooding and landslips are probable.

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Tropical Cyclone Warning issued at 0:30 a.m. 17 August 1971 by Royal Observatory.

The Hurricane Signal, that is No. 10, is still hoisted which means that winds with mean speed 64 knots or more are expected.

At 00:30 a.m., Typhoon Rose was centred about 12 miles south of Lantau and was moving north at about 10 knots.

Storm to hurricane force winds and gusts of over 100 knots are being experienced in exposed places.

At 00:30 a.m. the northern edge of the eye was 6 miles south of Lantau. As the eye moves over the western parts of the Colony there will be a lull in the winds as long as 2 to 3 hours in some places. Over the eastern parts of the Colony winds will change to southerly with only a slight temporary decrease in strength.

Rainfall is expected to become much heavier during the remainder of the night.

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Tropical Cyclone Warning issued at 1:14 a.m. 17 August 1971 by Royal Observatory.

The Hurricane Signal, that is No. 10, is still hoisted which means that winds with mean speed 64 knots or more are expected.

At 1 a.m., Typhoon Rose was centred about 6 miles south of Lantau and was moving north at about 10 knots.

Hurricane force winds are being experienced in most places.

The eye of Typhoon Rose has just started to move over the western part of the Colony waters.

As the eye moves across the Colony there will be a lull lasting up to 2 to 3 hours in some places. This will be followed by a resumption of hurricane force winds from the southwest. Heavy rain will persist during the remainder of the night.

At 1 a.m., the centre of Typhoon Rose was near 22.1 degrees north, 114.0 degrees east.

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Tropical Cyclone Warning issued at 2:30 a.m. 17 August 1971 by Royal Observatory.

The Hurricane Signal, that is No. 10, is still hoisted which means that winds with mean speed 64 knots or more are expected.

At 2 a.m., Typhoon Rose was centred about 3 miles north of Cheung Chau and was moving north at about 9 knots.

The eye of Typhoon Rose just reached Cheung Chau at 01:45 a.m. and winds there have dropped off to 33 knots.

As the eye moves across the western parts of the Colony, there will be a lull in some places. This will be followed by a resumption of hurricane force winds from the southwest. You are strongly advised not to relax precautions as the eye passes over. Be prepared for the rapid resumption of destructive winds from a different direction after the eye has passed.

At 2 a.m., the centre of Typhoon Rose was near 22.2 degrees north, 114.0 degrees east.

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Tropical Cyclone Warning issued at 3:10 a.m. 17 August 1971 by Royal Observatory.

The Hurricane Signal, that is No. 10, is still hoisted which means that winds with mean speed 64 knots or more are expected.

At 3 a.m., the eye of Typhoon Rose was centred over the western part of the New Territories and was moving north at about 11 knots towards Deep Bay.

Winds over most areas are still of hurricane force.

Winds at Cheung Chau have turned southwesterly and increased to hurricane force again.

Over 176 millimetres, that is about 7 inches, of rainfall have been recorded at the Royal Observatory since rain started yesterday morning. More heavy rain is expected during most of the morning.

At 3 a.m., the centre of Typhoon Rose was near 22.4 degrees north, 113.9 degrees east.

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Tropical Cyclone Warning issued at 3:45 a.m. 17 August 1971 by Royal Observatory.

The Hurricane Signal, that is No. 10, is still hoisted which means that winds with mean speed 64 knots or more are expected.

At 3:30 a.m., Typhoon Rose was centred over Deep Bay and was moving away to the north-northwest at 11 knots.

Pressure is now rising at all stations in Hong Kong and winds have started to become less violent. However, gusts of 80 knots have been recorded at Waglan and 78 knots at Cheung Chau during the last half-hour.

Over 180 millimetres, that is over 7 inches, of rainfall have been recorded at the Observatory since rain began yesterday. Another 100 millimetres or more are expected during the rest of today.

As the eye of Rose moves away and inland winds in Hong Kong will become southwesterly and will moderate. There will however be heavy rain squalls during the day.

At 3:30 a.m., the centre of Rose was near 22.5 degrees north, 113.9 degrees east.

Rose is expected to weaken, as it moves inland.

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Tropical Cyclone Warning issued at 4:25 a.m. 17 August 1971 by Royal Observatory.

The Hurricane Signal, that is No. 10, is still hoisted which means that winds with mean speed 64 knots or more are expected.

At 4 a.m., Typhoon Rose was centred about 27 miles northwest of Tate's Cairn Radar Station and was moving away towards the north-northwest at about 13 knots.

Winds over most stations are decreasing but gusts of 116 knots have been recorded at Tate's Cairn and 84 knots at Cheung Chau.

Winds in Hong Kong will become southwesterly and will moderate. However there will be heavy rain squalls during the day.

220 millimetres that is about 8.5 inches of rainfall have been recorded at the Observatory since rain began yesterday.

At 4 a.m., the centre of Typhoon Rose was near 22.6 degrees north, 113.8 degrees east.

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Tropical Cyclone Warning issued at 5:00 a.m. 17 August 1971 by Royal Observatory.

The Southwest Gale or Storm Signal, that is No. 6\*, was hoisted at 4:40 a.m. which means that winds with mean speed 34 knots or more are expected from the southwest quarter.

At 4:30 a.m., Typhoon Rose was centred over the Pearl River and was moving northwest at 13 knots.

Winds over all stations are decreasing but are still gale force.

Gusts of 85 knots have been recorded at Tate's Cairn and 60 knots at Cheung Chau during the past hour.

At 4:30 a.m., the centre of Typhoon Rose was near 22.7 degrees north, 113.7 degrees east.

Rose is expected to weaken as it moves inland.

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Tropical Cyclone Warning issued at 5:30 a.m. 17 August 1971 by Royal Observatory.

The Southwest Gale or Storm signal, that is No. 6\*, is still hoisted which means that winds with mean speed 34 knots or more are expected from the southwest quarter.

At 5 a.m., Typhoon Rose was centred over the Pearl River about 43 miles northwest of Tate's Cairn. It was moving northwest at 13 knots.

Winds over all stations are decreasing but are still gale force.

Gusts of 86 knots have been recorded at Tate's Cairn and 65 knots at Cheung Chau during the past hour.

246 millimetres, that is about 9.5 inches, of rainfall have been recorded at the Royal Observatory since rain began yesterday. More heavy rain and squally showers are expected during the day.



At 5 a.m., the centre of Typhoon Rose was near 22.8 degrees north, 113.6 degrees east.

It is expected to weaken as it moves inland.

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Tropical Cyclone Warning issued at 6:30 a.m. 17 August 1971 by Royal Observatory.

The Southwest Gale or Storm Signal, that is No. 6\*, is still hoisted which means that winds with mean speed 34 knots or more are expected from the southwest quarter.

At 6 a.m., Typhoon Rose was centred over the Pearl River about 53 miles northwest of Tate's Cairn Radar Station and was moving northwestwards at 13 knots.

The eye of the typhoon is not clearly defined on the radar but bands of heavy rain are visible south of the centre.

Winds over all stations are decreasing but are still gale force from the south or southwest.

Gusts of 57 knots have been recorded at Cheung Chau and 52 knots at Kai Tak Airport.

During the night the centre of Rose passed over Cheung Chau around 2 a.m. and continued northwards over Castle Peak. Around 3 a.m. it was over Deep Bay when it turned onto a north-northwesterly track and began to move away up the Pearl River Estuary.

The lowest atmospheric pressure at the Royal Observatory was recorded around 2 a.m. and has since then the pressure has risen rapidly.

Over 260 millimetres, that is about over 10 inches, of rainfall have been recorded at the Royal Observatory since rain began yesterday.

More heavy rain and squally showers are expected during the day.

At 6 a.m., the centre of Typhoon Rose was near 22.9 degrees north, 113.5 degrees east.

It is expected to weaken as it moves inland.

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Tropical Cyclone Warning issued at 7:30 a.m. 17 August 1971 by Royal Observatory.

The Southwest Gale or Storm Signal, that is No. 6\*, is still hoisted which means that winds with mean speed 34 knots or more are expected from the southwest quarter.

At 7 a.m., Typhoon Rose was centred about 44 miles northwest of Tate's Cairn Radar Station and was moving north-northwest at about 10 knots. In the last hour the eye has become better defined and the centre has been re-located.

Winds over the Colony are decreasing, but are still gale force southwesterly. Gusts of 53 knots have been recorded at Cheung Chau and 50 knots at Waglan and Kai Tak in the last hour.

After passing over Cheung Chau at about 2 a.m., Rose has been moving north-northwestwards up the Pearl River Estuary. Atmospheric pressure is continuing to rise over the Colony, and the very heavy rain has decreased in most places. However bands of heavy showers are still visible on the Royal Observatory radar.

At 7 a.m., the centre of Rose was near 22.9 degrees north, 113.6 degrees east.

It is expected to weaken as it moves inland.

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Tropical Cyclone Warning issued at 8:30 a.m. 17 August 1971 by Royal Observatory.

The Southwest Gale or Storm Signal, that is No. 6\*, is still hoisted which means that winds with mean speed 34 knots or more are expected from the southwest quarter.

At 8 a.m., Typhoon Rose was centred about 50 miles northwest of Tate's Cairn Radar Station and was moving north-northwest at about 8 knots.

Winds are still gale force over exposed parts of the Colony. The mean wind at Waglan is 40 knots and gusts to 50 knots have been recorded at Kai Tak and 53 knots at Cheung Chau in the last hour.

Nearly 300 millimetres of rain, that is about 12 inches, have been recorded at the Royal Observatory since the rain started yesterday. More heavy showers are expected which may produce a further 100 millimetres, that is 4 inches, of rain.

At 8 a.m., the centre of Rose was near 23.0 degrees north, 113.6 degrees east.

It is expected to weaken as it moves further inland.

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Note: The Hong Kong Observatory was known as the Royal Observatory, Hong Kong during the period from 1912 to 30 June 1997.

\* Starting from 1 January 1973, signals 5 to 8 were replaced by 8 NW, 8 SW, 8 NE and 8 SE respectively.