



**Highly Commended**

# **Models & Inventions**

## **Year 5-6**

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Waterspouts are formed by cloud filled wind rotating over a body of water pushing the water down. They can start as a normal tornado.

## Types of water spouts.

Tornadic waterspout starts as a normal tornado

Tornadic waterspouts are formed from mesocyclone( a vortex rotating storm common with low pressure regions). A tornado which travels from land to a body of water would also be considered a Tornadic waterspout.

Fair-weather Waterspouts or Non-Tornadic Waterspouts. These are the most common type of Waterspout they have a life cycle about 20 minutes. They are most frequently seen in sub-tropical climates.

## Snowspouts

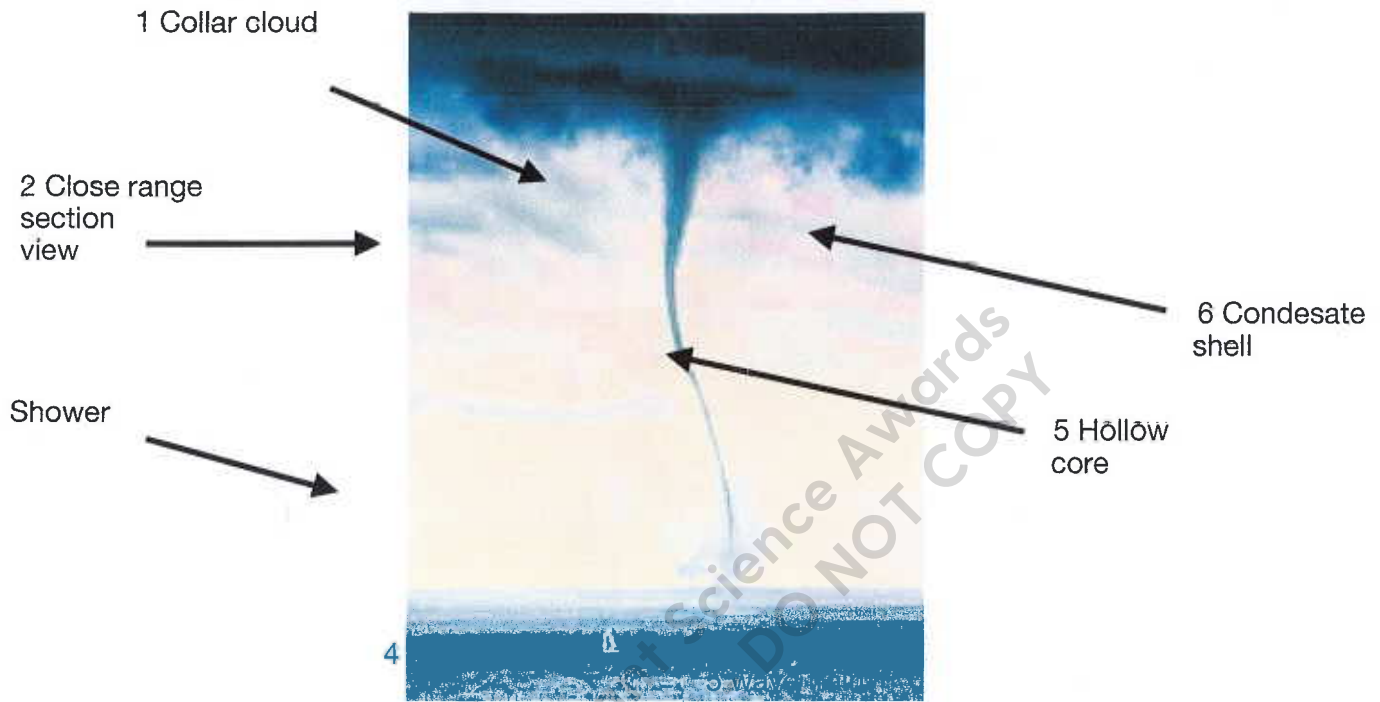
Also known as a snow devil, ice-spout, ice devil, Snownado. They are extremely rare because they formed under the base of a snow storm.

The most common place that fair weather waterspouts occur is in the gulf of Mexico and Florida keys .

## Fair weather Waterspout phases

- 1 formation
- 2 spiral
- 3 spray ring is formed
- 4 spout becomes a tunnel
- 5 spout decays in a cool rain

# Diagram of a fair weather waterspout



To show the effect extreme weather pressures can have on a body of water.

The model was made with a battery motorised propeller, clear plastic pipe & foam pieces

Linus did all the planning, painting, measuring, report writing & helped with shopping.

Dad did all the drilling, cutting electronics and helped the glueing.

How to operate the model,

You press the red button and watch the magic happen.

### Problems

We had trouble choosing a material that the propeller be able to make spin, we tried flour, salt & sand which were all too heavy. We ended choosing foam.