

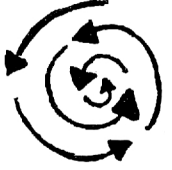
but not in your bathtub
 The **Coriolis force**
 is far too weak
 over a few feet
 to affect the
 spiral in your
 tub.



this is the
 result of
 the "Coriolis
 effect,"
 caused by
 the rotation
 of the earth.

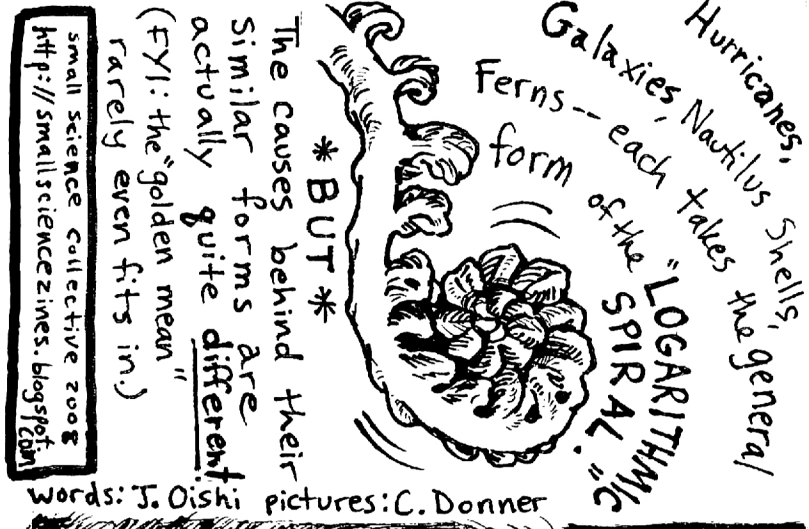
... not really.

Hurricanes spin
 counter-clockwise
 in the Northern
 hemisphere but
 clockwise in the
 Southern
 hemisphere.



There are also **SPIRAL GALAXIES**.
 The part where
 the spiral forms
 is made up of millions
 of hot young stars.
 These spirals are
 thought to be waves
 moving through the
 galaxy due to GRAVITY
 and ROTATION.

* Most galaxies are
 NOT spirals! These
 are special cases



Hurricanes, Shells, Galaxies, Nautilus
 Ferns -- each takes the general
 form of the "LOGARITHMIC
 SPIRAL."
 * BUT *
 The causes behind their
 similar forms are
 actually quite different.
 (FYI: the "golden mean"
 rarely even fits in.)

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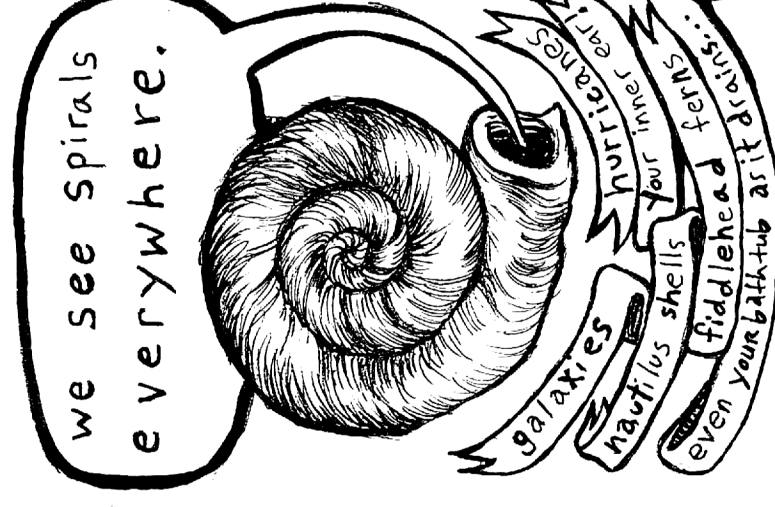


Some are **DYNAMIC**.
 They are a balance of
 ROTATION and some of
 FORCE: Gravity other
 Differences
 Pressure
 Galaxies
 Hurricanes

is there some
 mysterious connection?



ENDLESS
 SPIRALS



we see spirals
 everywhere.

Galaxies
 Nautilus shells
 Hurricanes
 Ferns
 your inner ear!
 fiddlehead
 even your bathtub drains...

Words: J. Oishi pictures: C. Donner