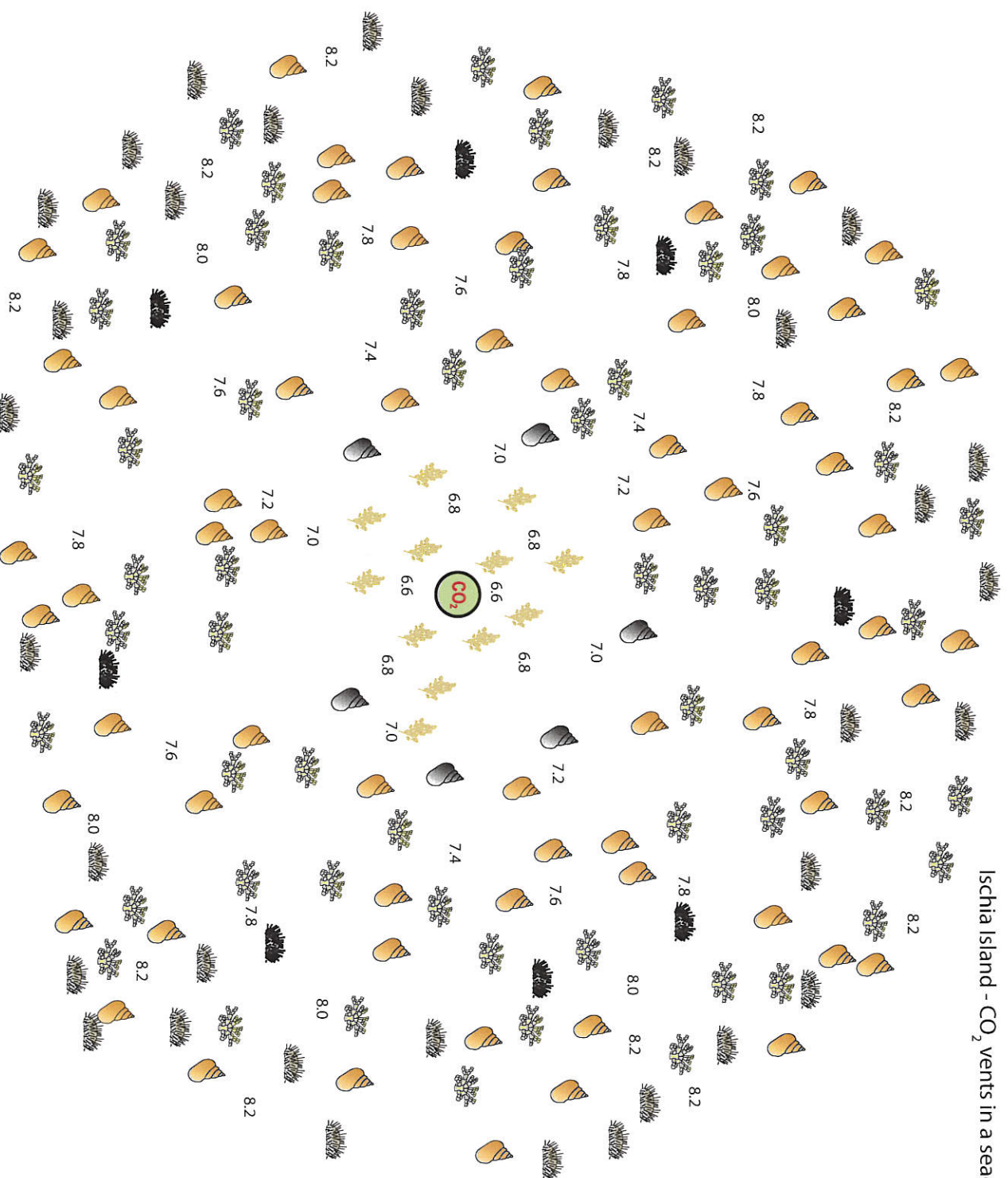







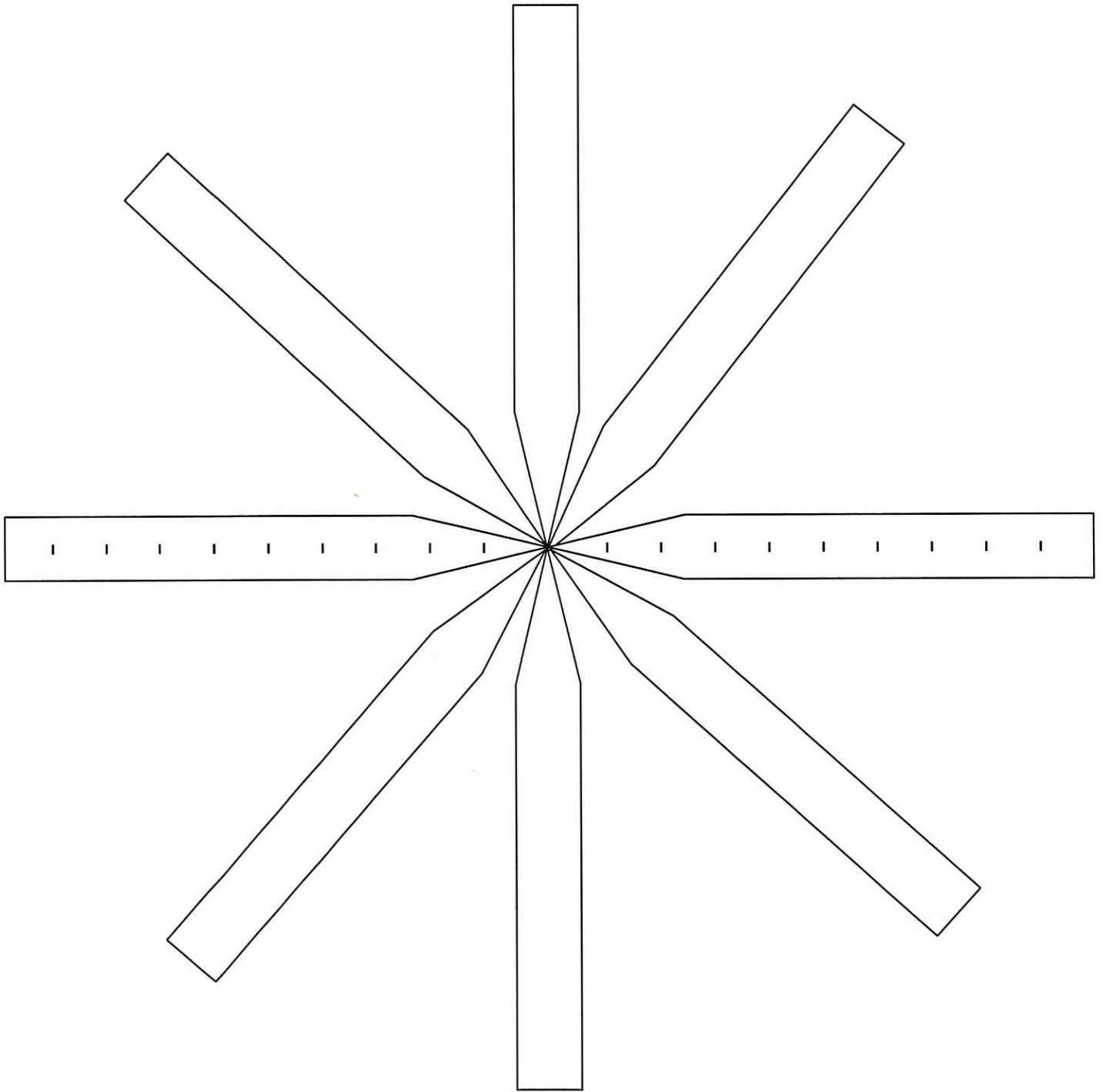


Ischia Island - CO₂ vents in a seagrass community



	Urchin, Healthy		Snail, Healthy		Non-calcareous Algae		CO ₂ Vent
	Urchin, Sick		Snail, Sick		Calcareous Algae		# = pH



Analysis questions

1. What organisms were most common near the vent? Away from the vent?

2. How did the abundance of the organisms relate to pH?

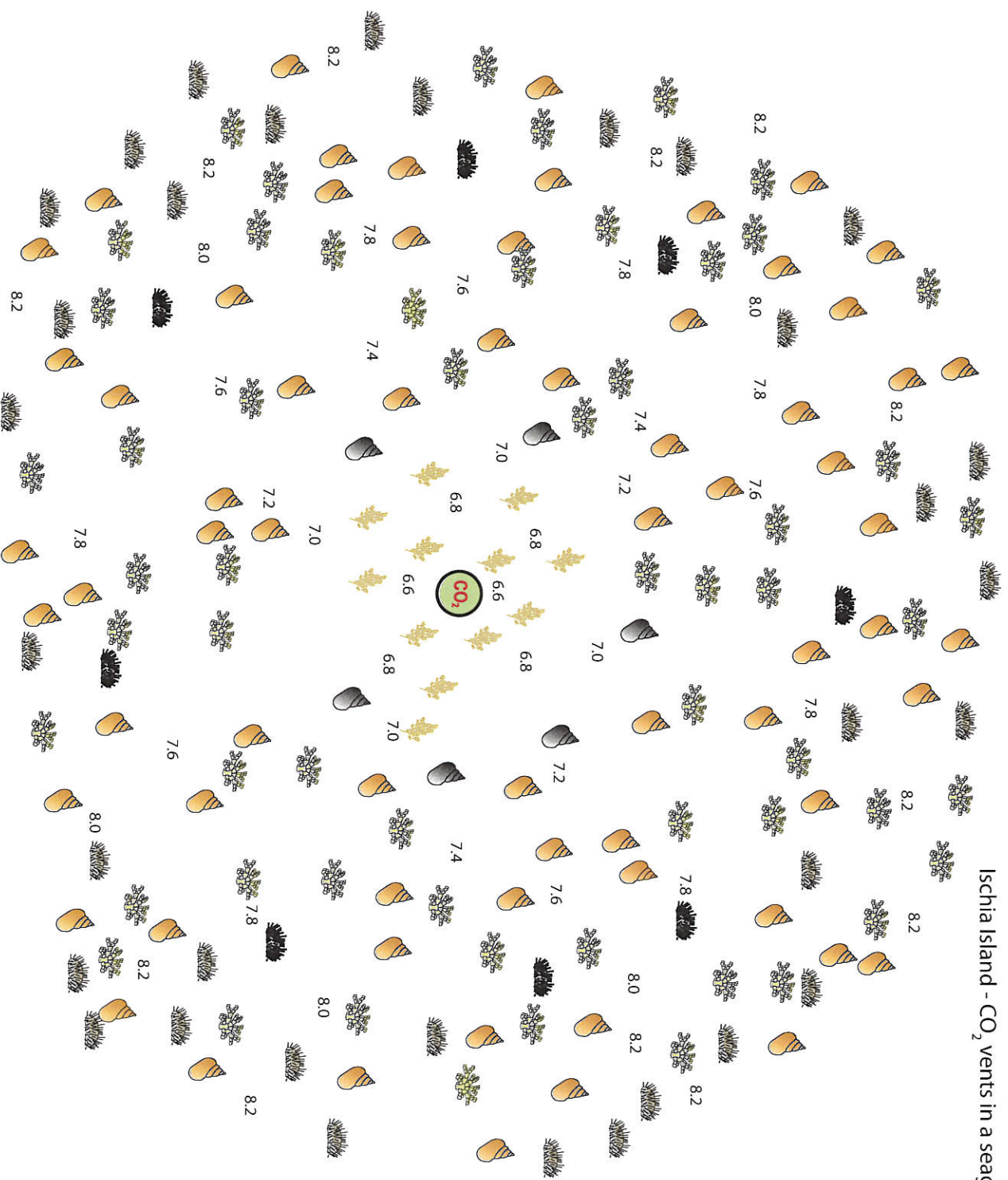
3. How would shelled organisms be affected by a lower pH of ocean water?

4. Over what range of pH do most of the organisms disappear in Dr. Hall-Spencer's study?

5. How much has pH dropped in the surface ocean already?

Conclusion / summary (revisit hypothesis)

Ischia Island - CO₂ vents in a seagrass community



Urchin, Healthy



Urchin, Sick



Snail, Healthy



Snail, Sick



Non-calcareous Algae



Calcareous Algae

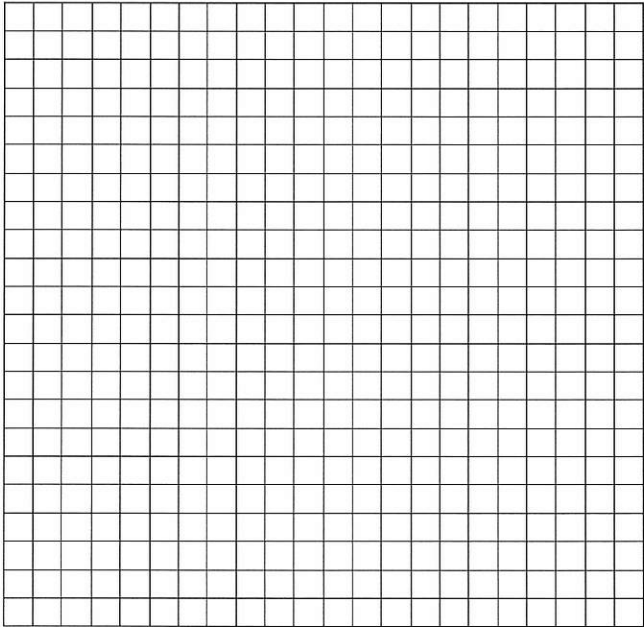


CO₂ Vent

= pH

Ischia Island-CO₂ Vents in a Seagrass Community

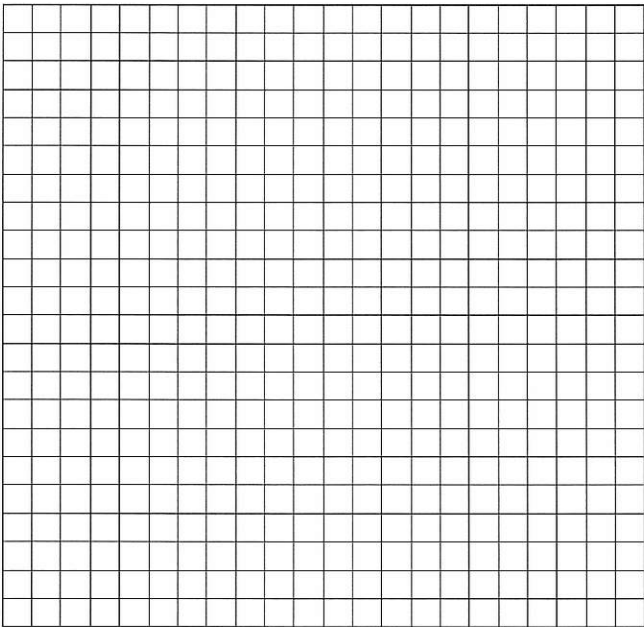
Seawater pH in Relation to a CO₂ Vent



pH

Distance From Vent







Organism Abundance
in Relation to a CO₂ Vent



number of
organisms

Distance From Vent

Ischia Island - CO₂ vents in a seagrass community

Distance from vent (in meters)	pH	# Urchins (healthy) 	# Urchins (sick) 	#Snails (healthy) 	#Snails (sick) 	# calcareous algae 	# non-calcareous algae 
0-5							
5-10							
10-15							
15-20							
20-25							
25-30							
30-35							
35-40							
40+							

0m

10m

20m

30m

40m