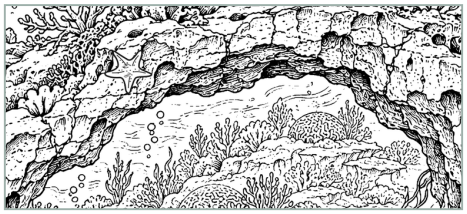
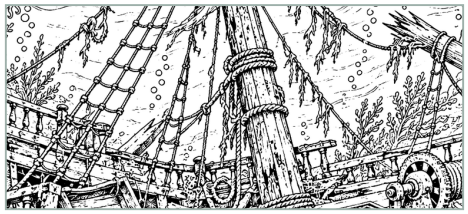
Ocean After Dark

A paper flashlight game and hidden picture expedition

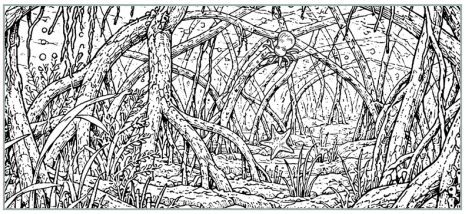
11 UNDERWATER SCENES / 66 HIDING PLACES / 11 SECRET WORDS



Coral Arch Reef



Shipwreck Cove



Mangrove Maze

Build the search board

Print one landscape scene on clear film suitable for your printer. Print the wands on page 13 and the die on page 14 on white cardstock. Select Actual Size on US Letter or A4. Check the 50 mm scale before printing on film.

Trim around the outside frame, keeping the coordinate letters and numbers. Back the film with matching matte black paper. Slide a cream paper circle between the sheets to see the ink.

Find a creature, then crack the code

Roll the die. Search for the matching outline with a wand. Read the column and row at the center of the animal. Look up that cell on the tide decoder on page 15. Enter the letter under the matching creature on page 16. Six finds spell a word.

Find a scene by page number

02 Coral Arch Reef
03 Ribbon Kelp Forest
04 Shipwreck Cove
05 Beneath the Pier
06 Seagrass Meadow
07 Basalt Stairway
08 Anchor Bay
09 Sunken Courtyard
10 Mangrove Maze
11 Submarine Station
12 Tidal Sand Maze

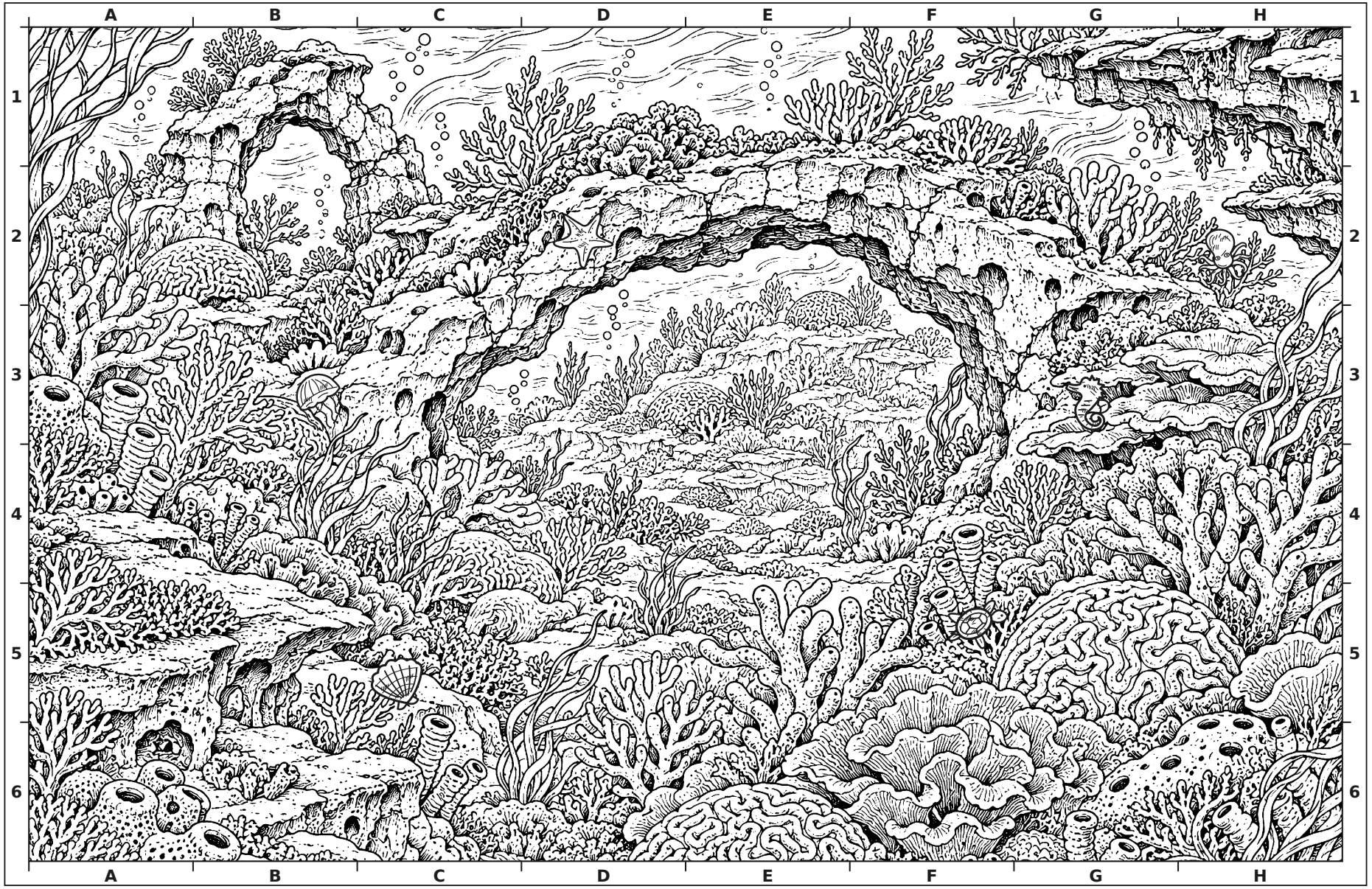
Need a hint? Pages 17–19 mark the hiding places. Page 20 lists all coordinates and secret words. Keep the last four pages aside until you want a clue.

50 mm at actual size

Coral Arch Reef

DIVE 01 / 11

CLEAR FILM / Print at actual size. Trim on the outside frame. Keep the coordinate rim.

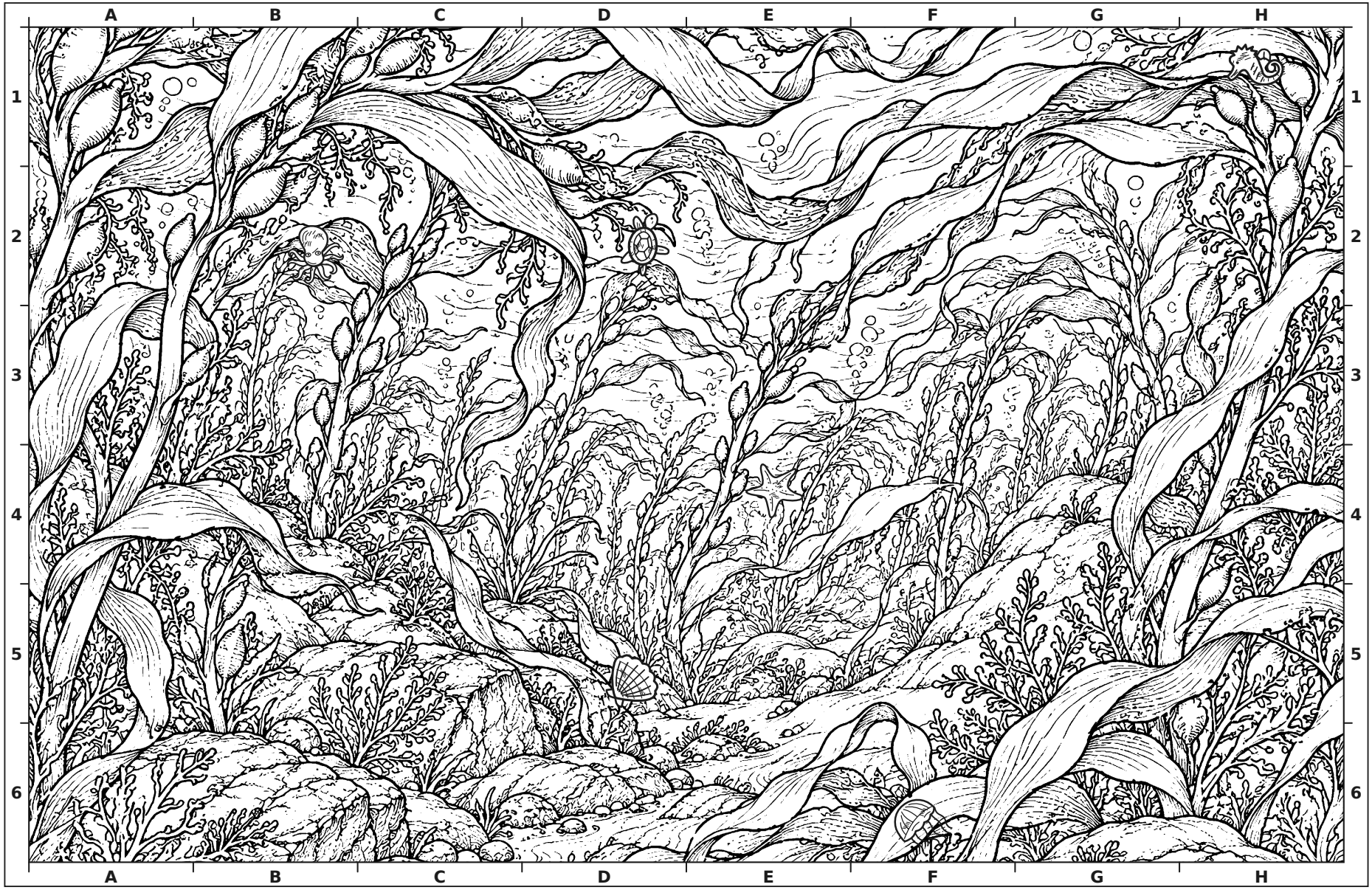


50 mm at actual size

Ribbon Kelp Forest

DIVE 02 / 11

CLEAR FILM / Print at actual size. Trim on the outside frame. Keep the coordinate rim.

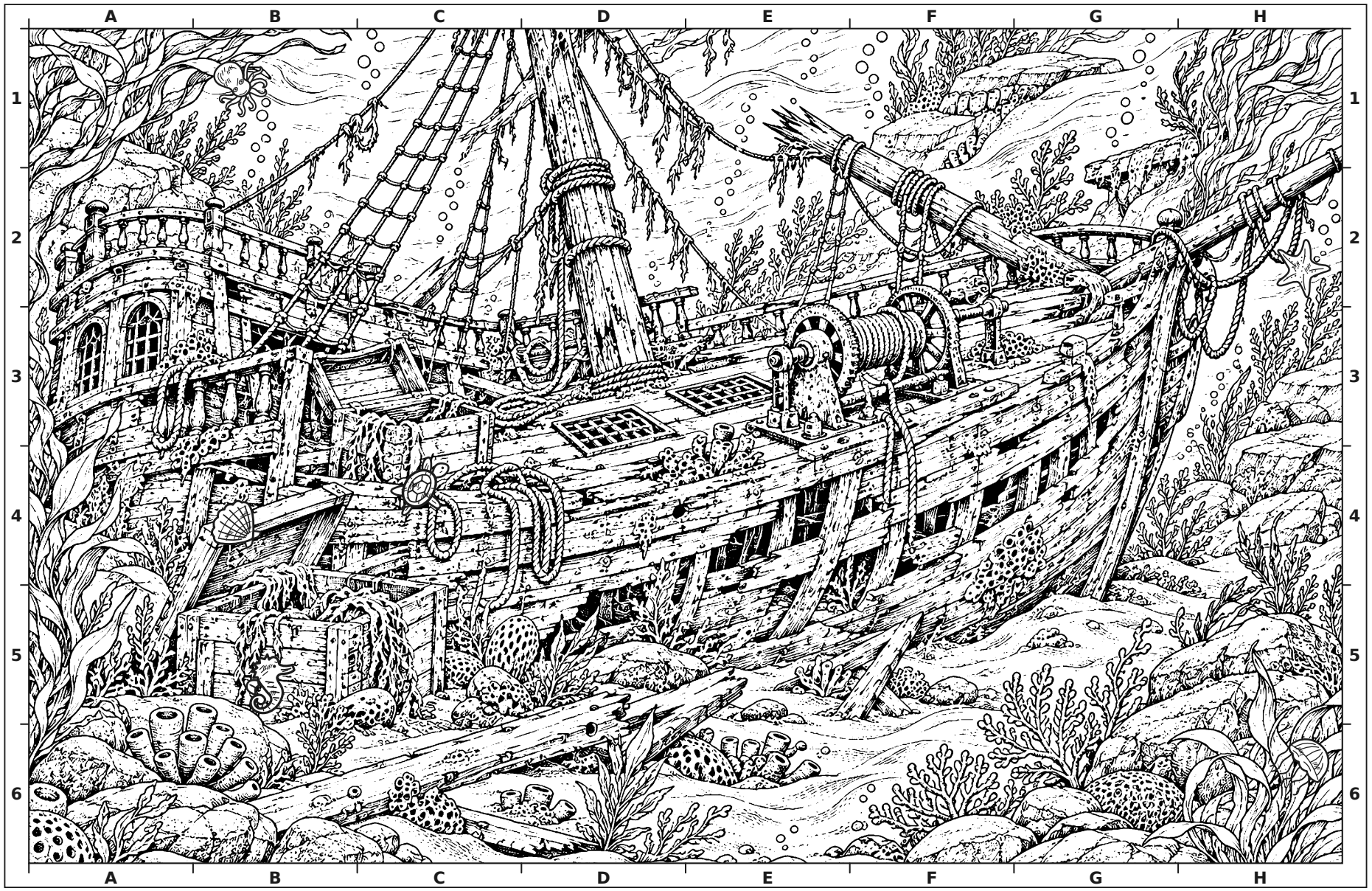


50 mm at actual size

Shipwreck Cove

DIVE 03 / 11

CLEAR FILM / Print at actual size. Trim on the outside frame. Keep the coordinate rim.



50 mm at actual size

Beneath the Pier

DIVE 04 / 11

CLEAR FILM / Print at actual size. Trim on the outside frame. Keep the coordinate rim.



50 mm at actual size

Seagrass Meadow

DIVE 05 / 11

CLEAR FILM / Print at actual size. Trim on the outside frame. Keep the coordinate rim.



50 mm at actual size

Basalt Stairway

DIVE 06 / 11

CLEAR FILM / Print at actual size. Trim on the outside frame. Keep the coordinate rim.

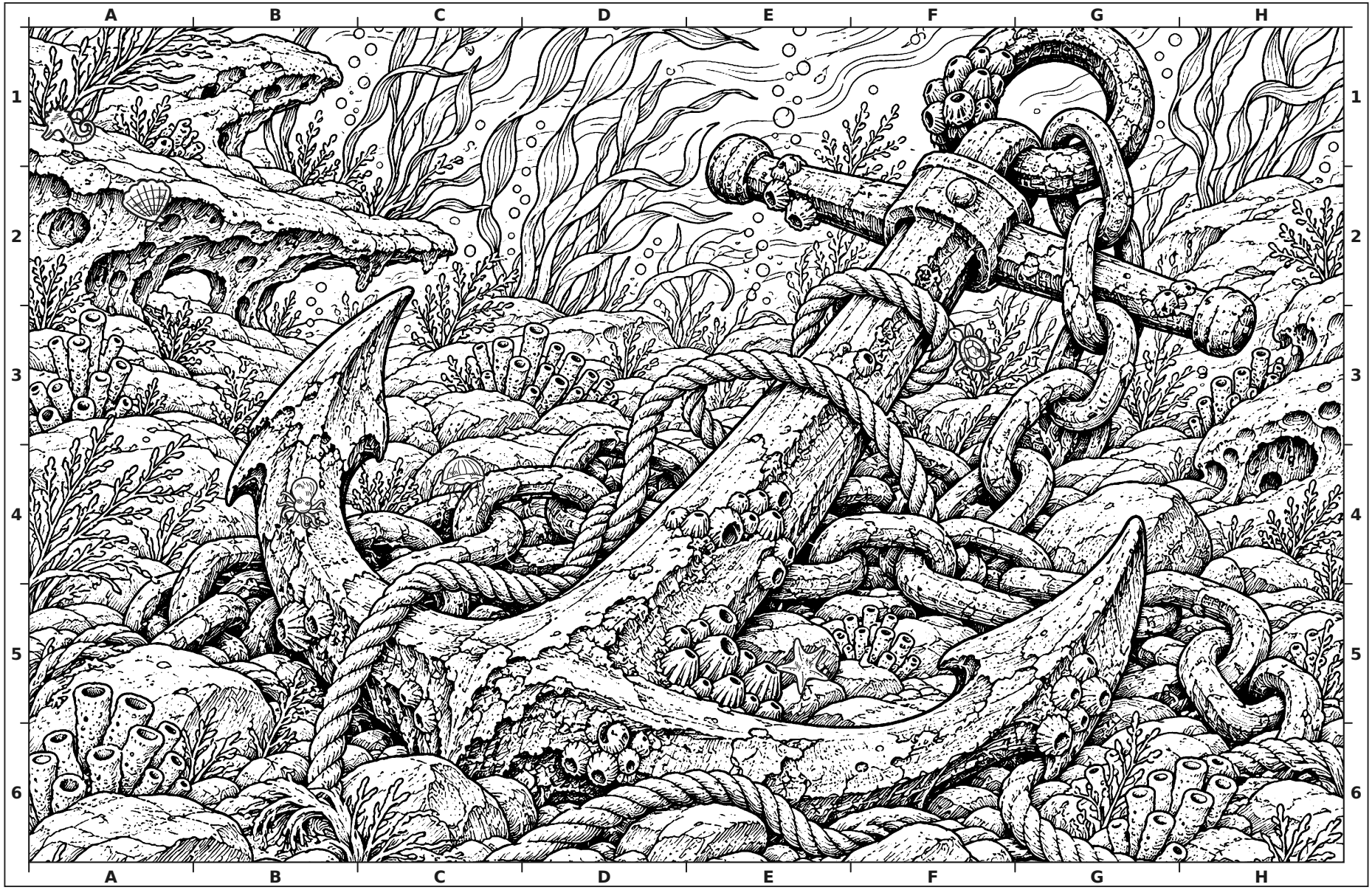


50 mm at actual size

Anchor Bay

DIVE 07 / 11

CLEAR FILM / Print at actual size. Trim on the outside frame. Keep the coordinate rim.

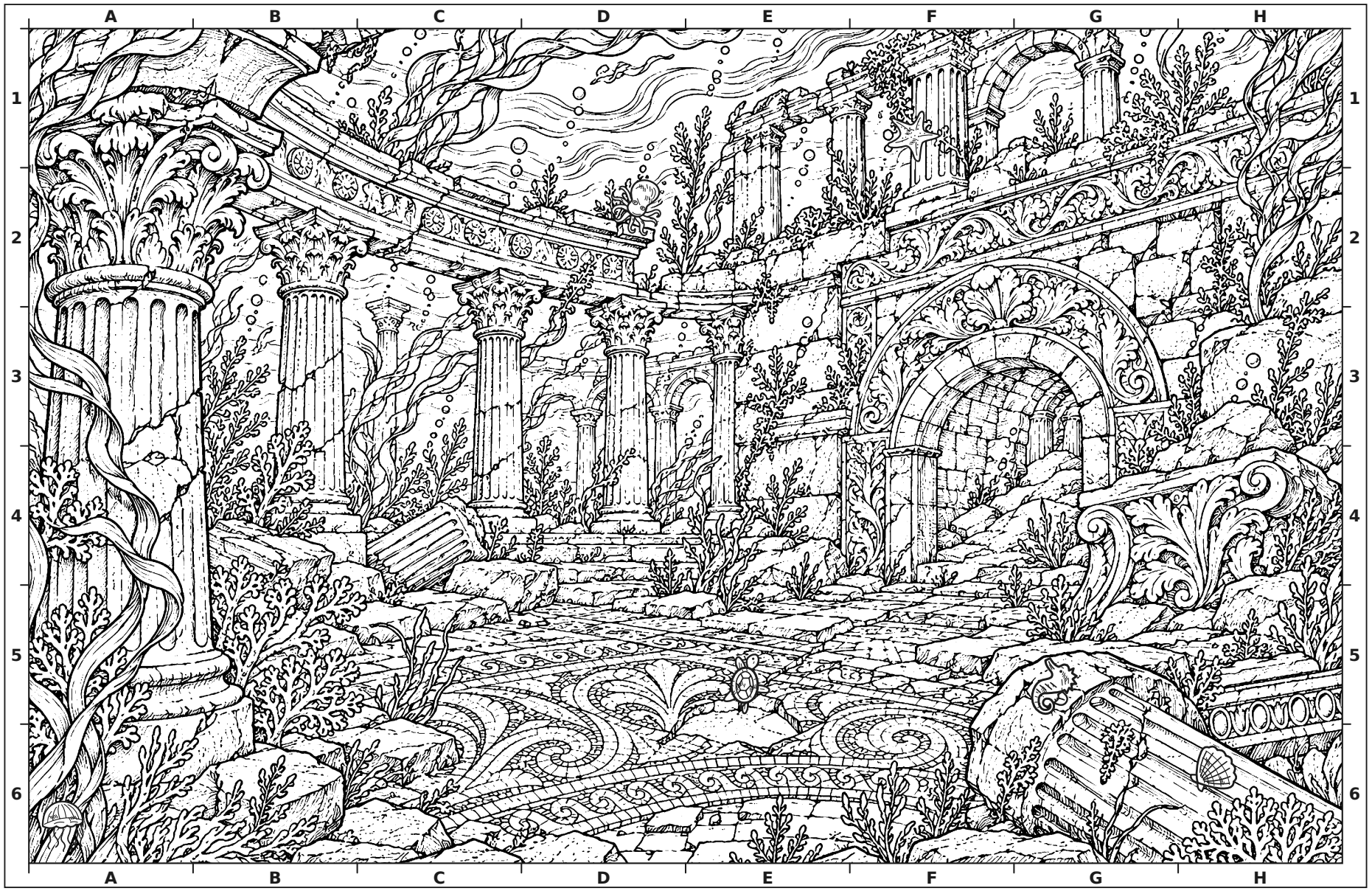


50 mm at actual size

Sunken Courtyard

DIVE 08 / 11

CLEAR FILM / Print at actual size. Trim on the outside frame. Keep the coordinate rim.

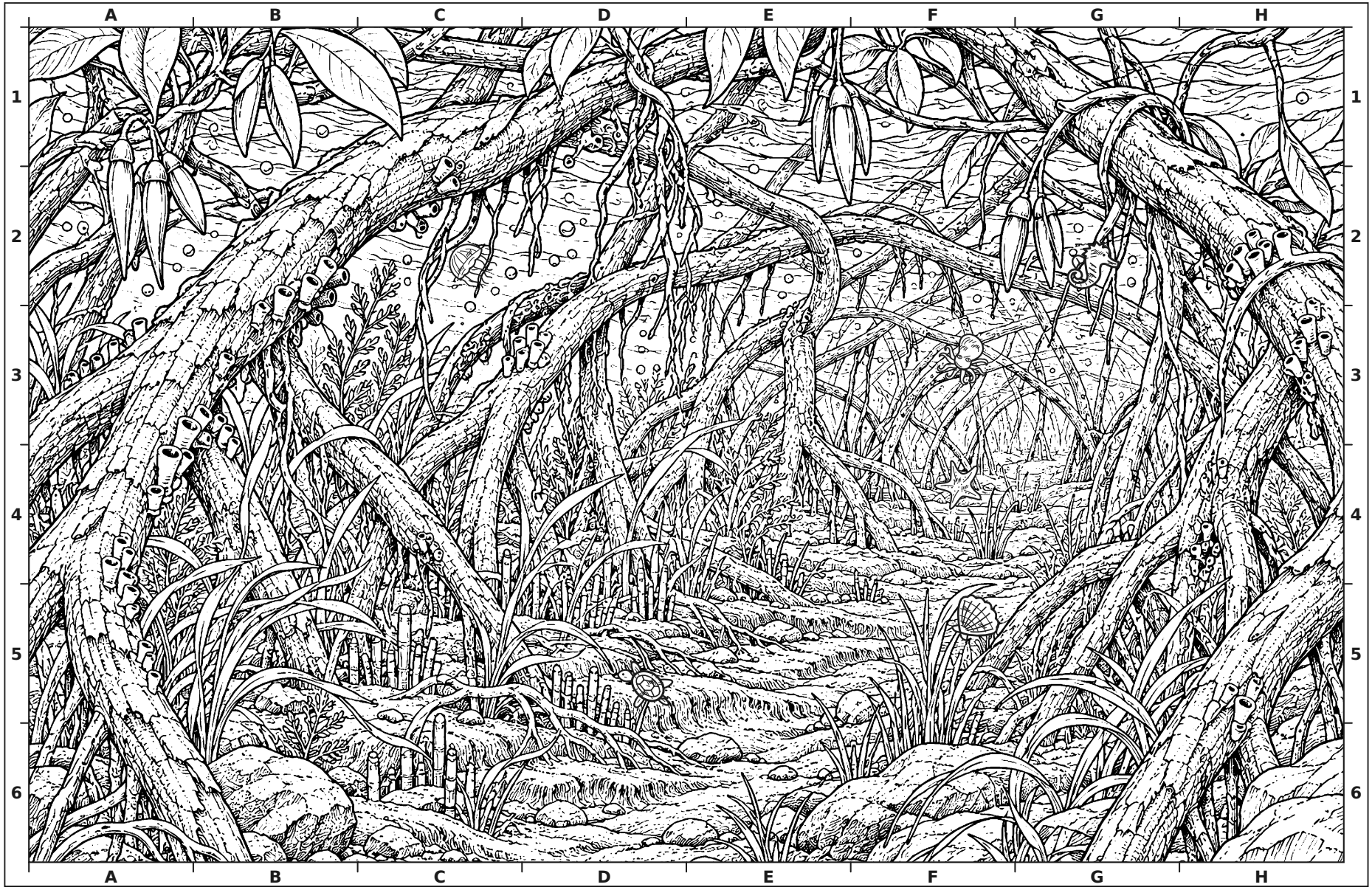


50 mm at actual size

Mangrove Maze

DIVE 09 / 11

CLEAR FILM / Print at actual size. Trim on the outside frame. Keep the coordinate rim.

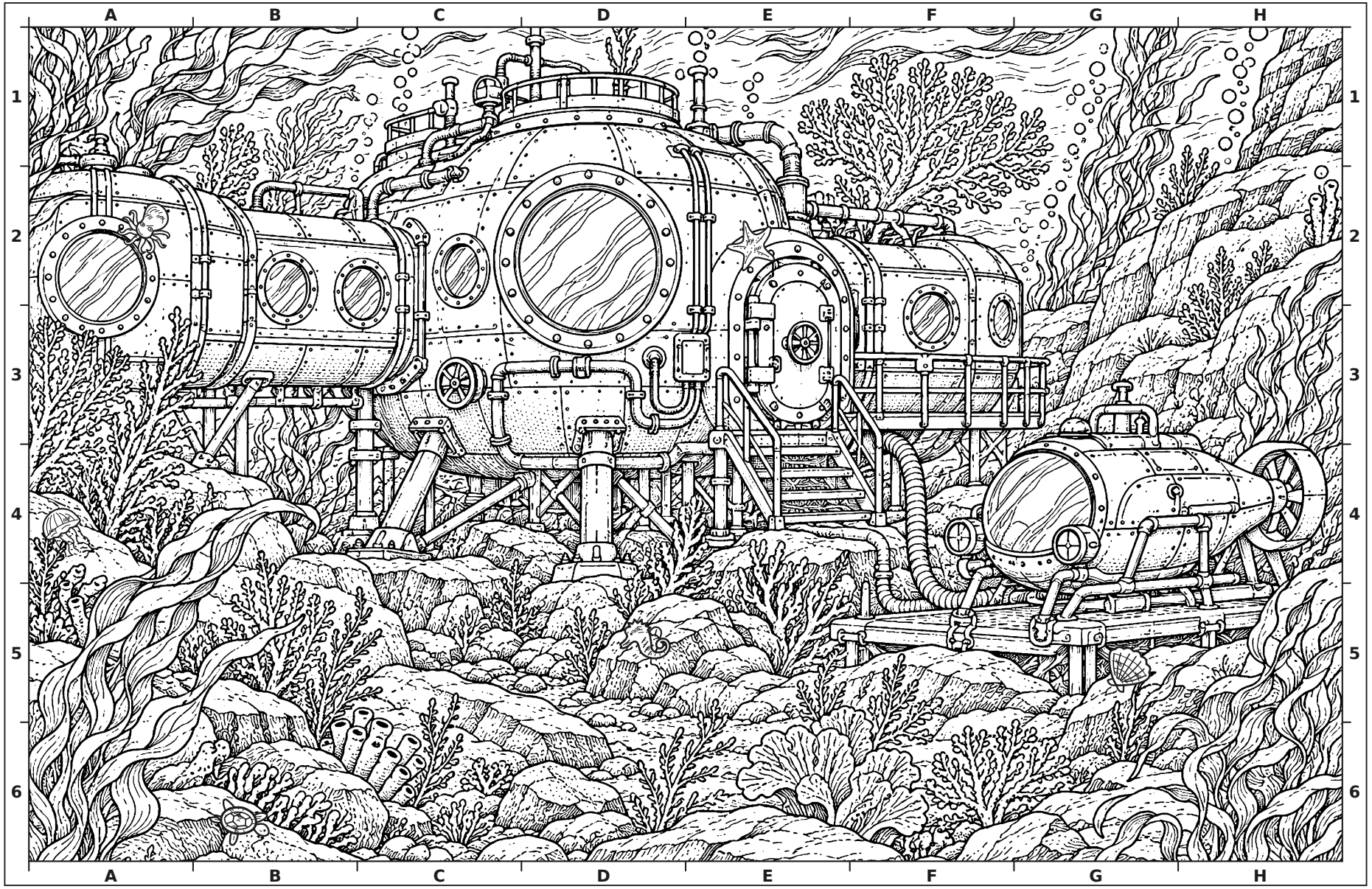


50 mm at actual size

Submarine Station

DIVE 10 / 11

CLEAR FILM / Print at actual size. Trim on the outside frame. Keep the coordinate rim.

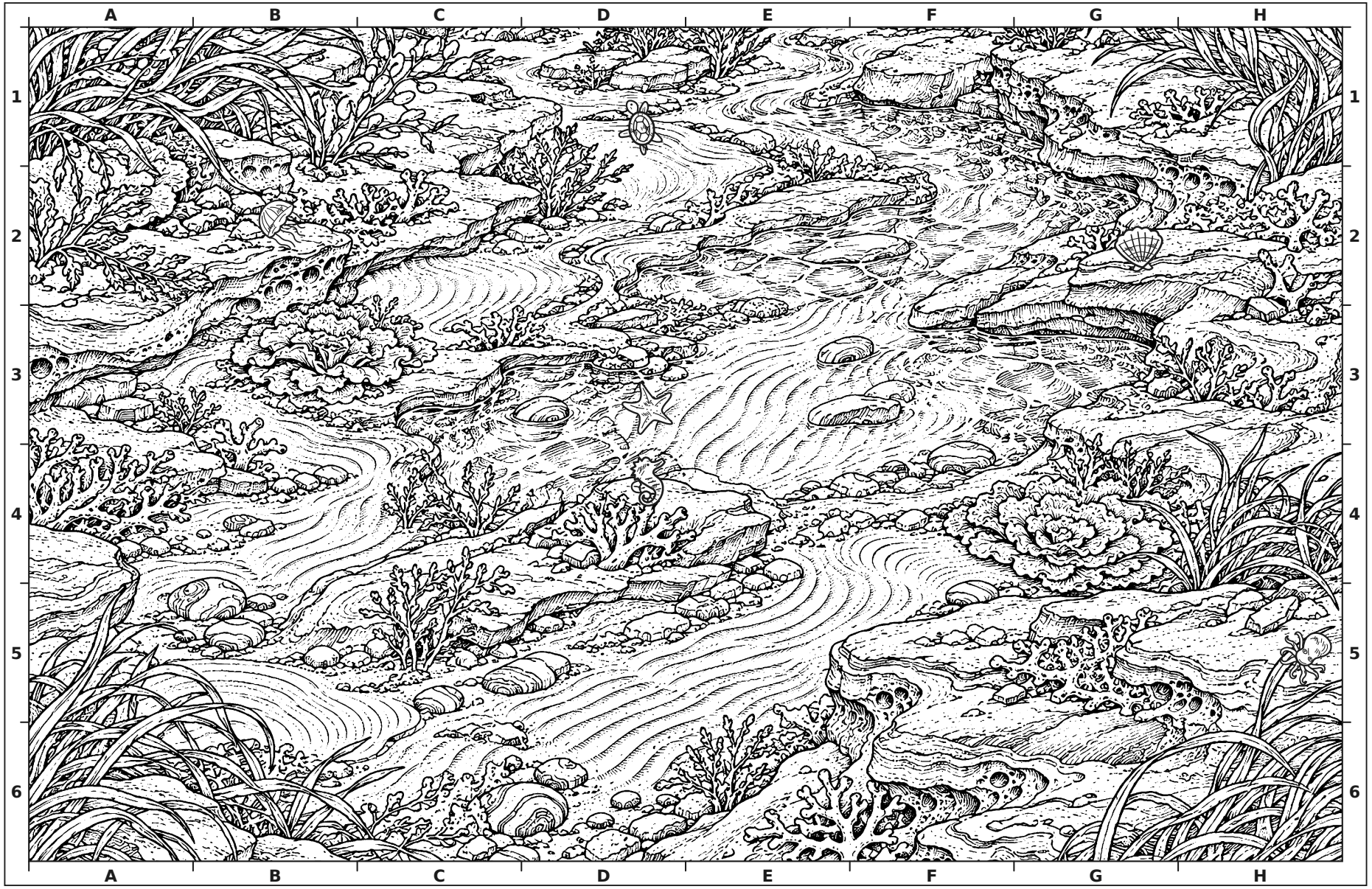


50 mm at actual size

Tidal Sand Maze

DIVE 11 / 11

CLEAR FILM / Print at actual size. Trim on the outside frame. Keep the coordinate rim.



50 mm at actual size

Ocean Flashlight Wands

WHITE CARDSTOCK / Cut around each whole wand, including the cream circle and handle.



Coral



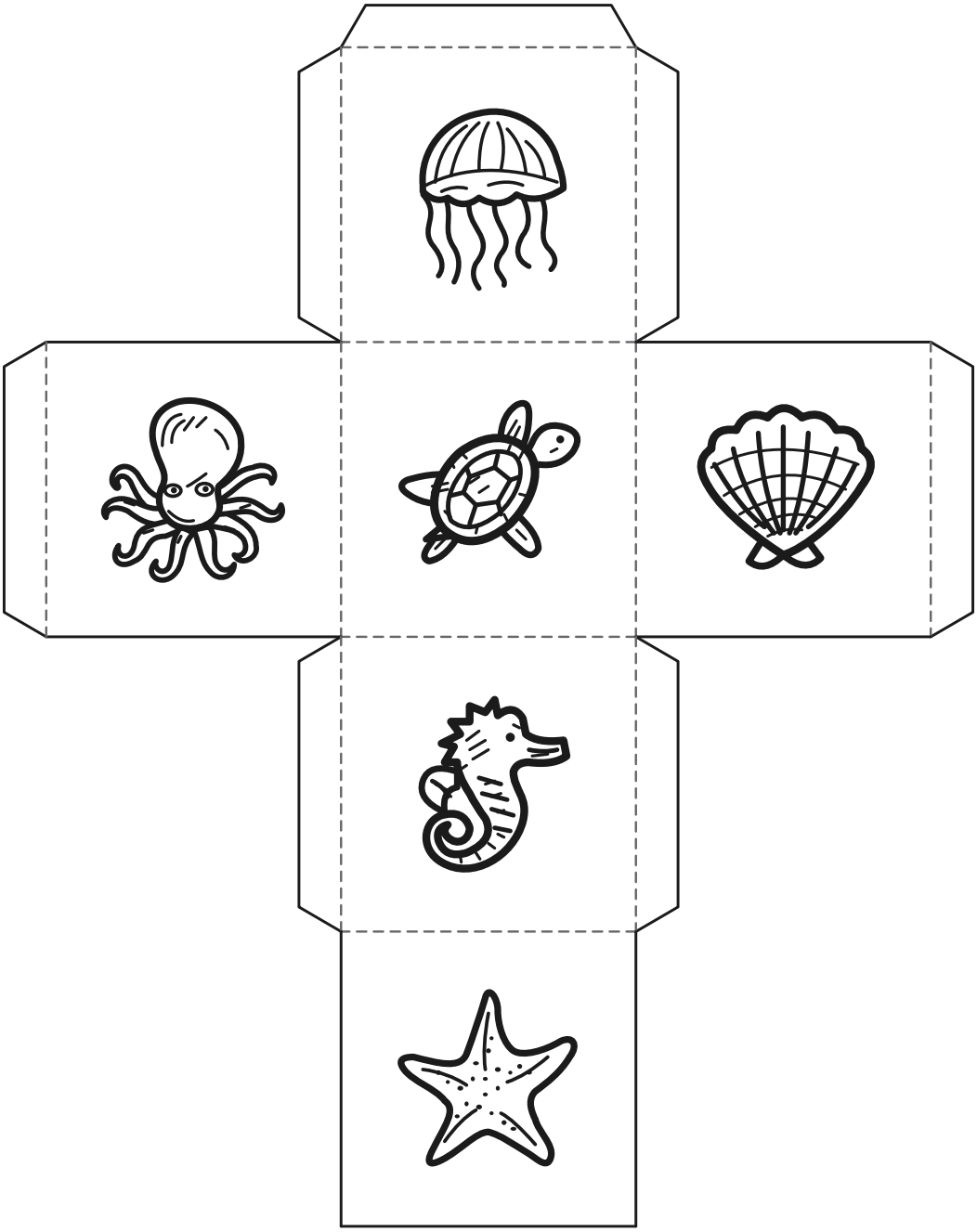
Ocean blue

Hold the colored handle. Guide the cream circle between the film and the black backing.

50 mm at actual size

Sea Creature Picture Die

WHITE CARDSTOCK / Cut the solid outside edge. Fold the dashed lines with the pictures facing out.



One die for all eleven dives

Leave the six faces joined. Fold the seven narrow tabs inward and glue each to its neighboring face. Close the last square after the other seams hold.

50 mm at actual size

The tide decoder

Use this same grid with every dive. Your coordinate gives you a single letter.

	A	B	C	D	E	F	G	H
1	N	N	Z	P	C	C	I	D
2	I	R	C	O	G	B	P	R
3	P	G	U	E	G	A	T	L
4	D	H	C	L	S	Y	N	W
5	X	O	T	N	S	O	I	I
6	M	V	K	A	M	F	R	A

Read a coordinate

For example, column A and row 1 meet at A1. The decoder gives the letter N. Use the center of the creature if a fin or tail reaches across a cell edge.

Keep the field log in this order



Jellyfish



Octopus



Sea turtle



Scallop



Seahorse



Sea star

Keep one wand on your find. Use the other cream tip to read the letters and numbers on the dark rim. Roll or choose another animal and continue.

50 mm at actual size

Expedition log

Under each animal, write its cell in the longer box and its decoded letter in the square. Read the six letters from left to right.

		 Jellyfish	 Octopus	 Sea turtle	 Scallop	 Seahorse	 Sea star
01	Coral Arch Reef						
02	Ribbon Kelp Forest						
03	Shipwreck Cove						
04	Beneath the Pier						
05	Seagrass Meadow						
06	Basalt Stairway						
07	Anchor Bay						
08	Sunken Courtyard						
09	Mangrove Maze						
10	Submarine Station						
11	Tidal Sand Maze						

One complete row spells one secret word.

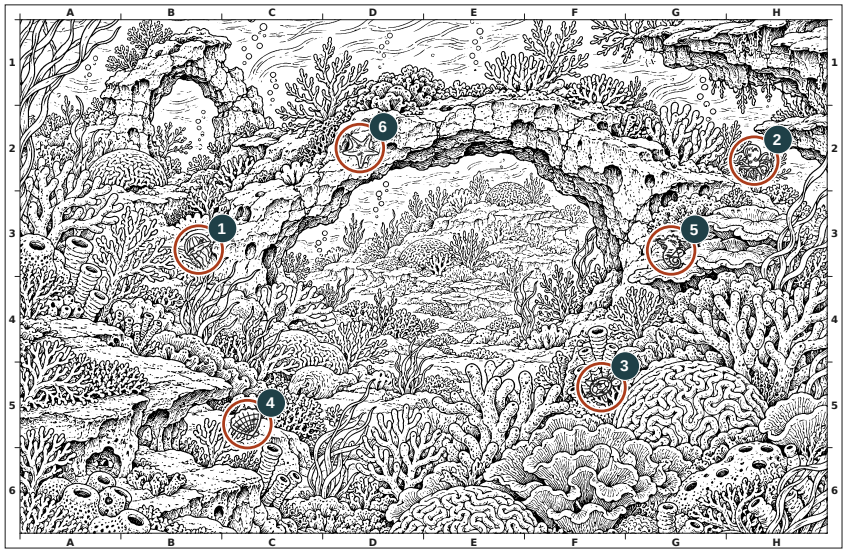
50 mm at actual size

Location overlays

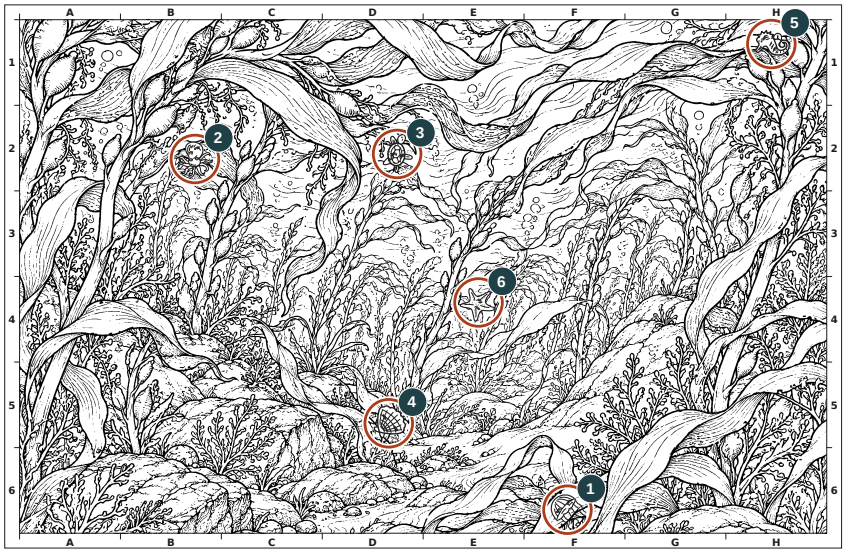
DIVES 01–04

1 Jellyfish **2 Octopus** **3 Sea turtle** **4 Scallop** **5 Seahorse** **6 Sea star**

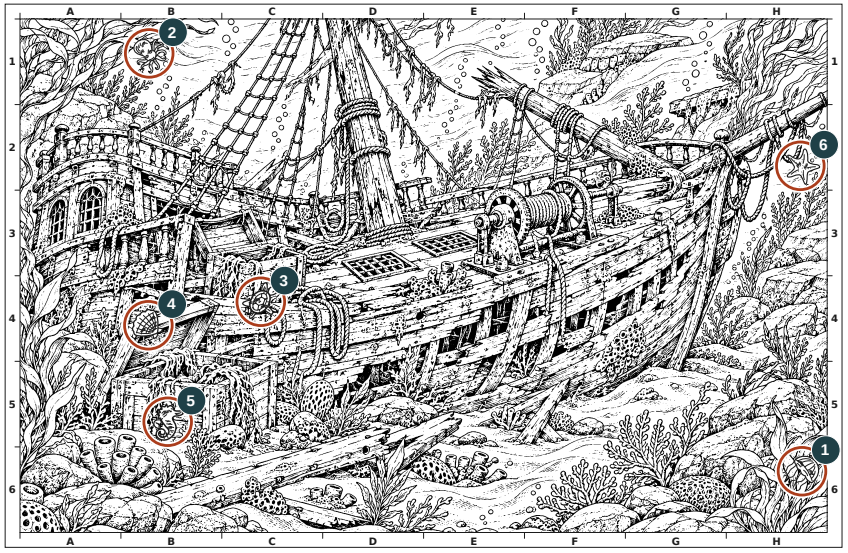
01 Coral Arch Reef



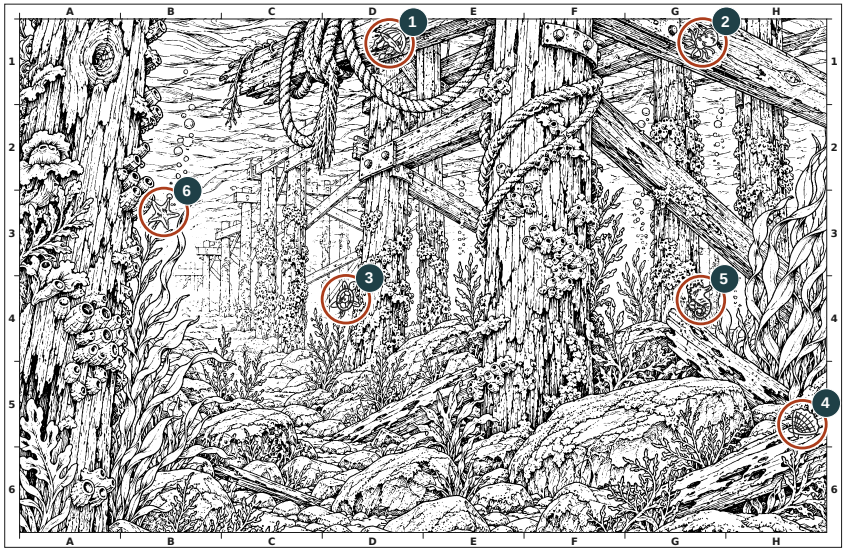
02 Ribbon Kelp Forest



03 Shipwreck Cove



04 Beneath the Pier



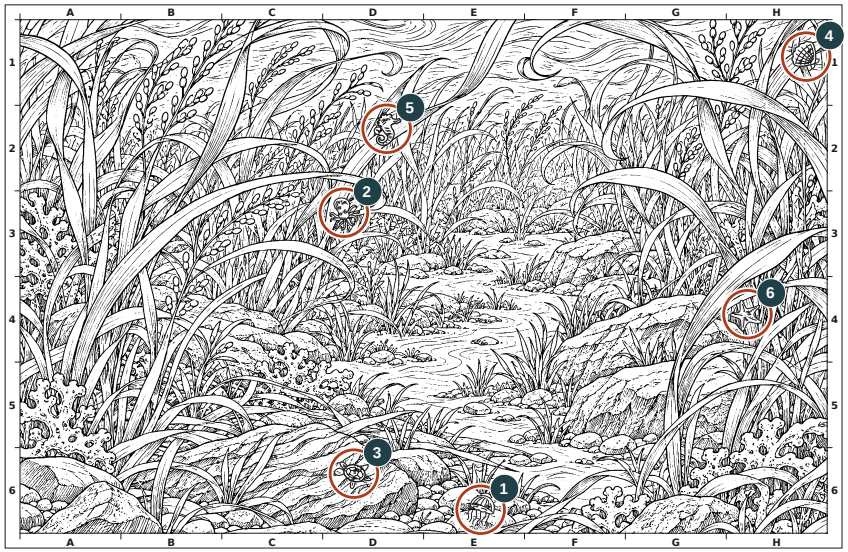
50 mm at actual size

Location overlays

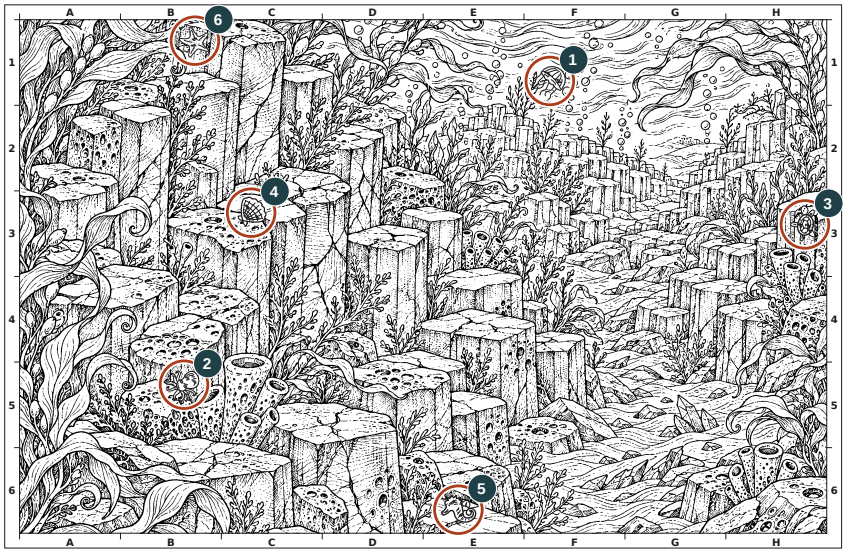
DIVES 05-08

1 Jellyfish **2 Octopus** **3 Sea turtle** **4 Scallop** **5 Seahorse** **6 Sea star**

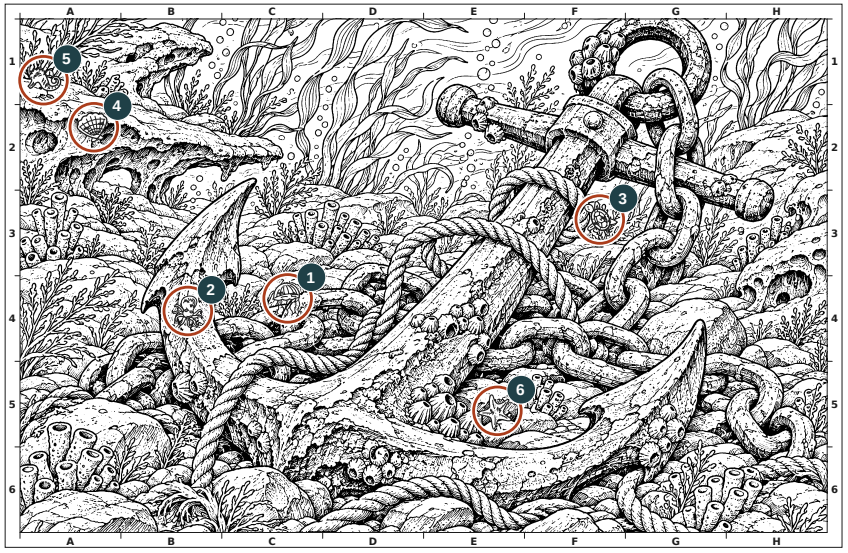
05 Seagrass Meadow



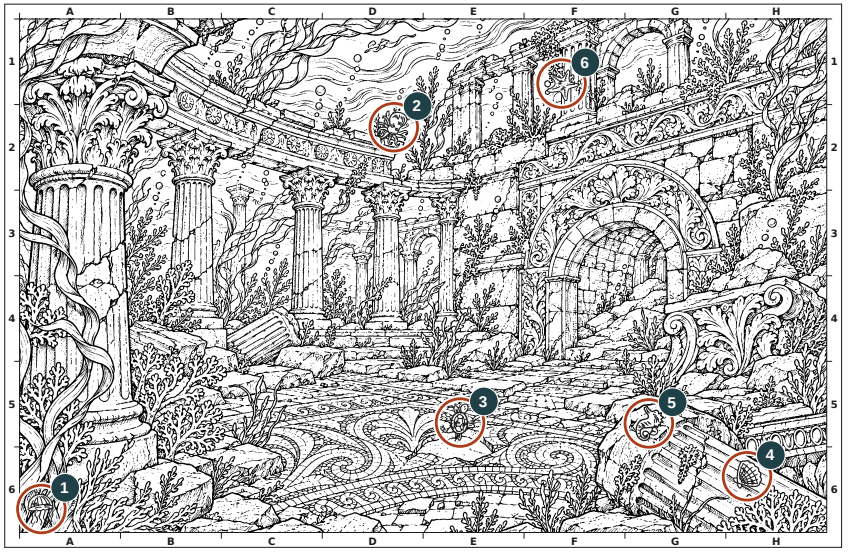
06 Basalt Stairway



07 Anchor Bay



08 Sunken Courtyard



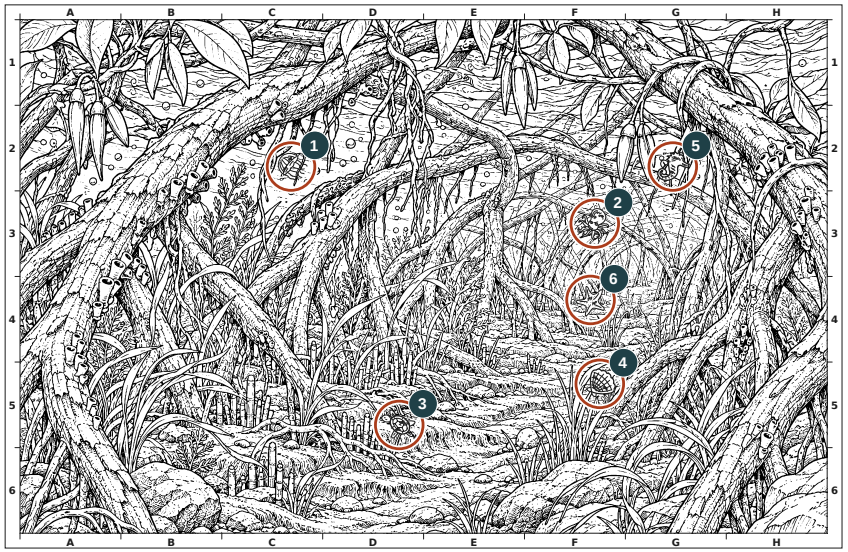
50 mm at actual size

Location overlays

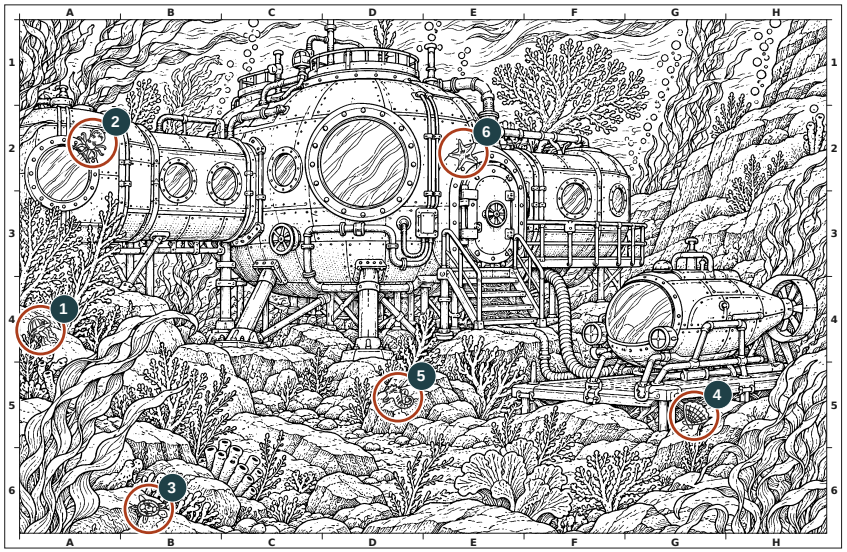
DIVES 09–11

1 Jellyfish **2 Octopus** **3 Sea turtle** **4 Scallop** **5 Seahorse** **6 Sea star**

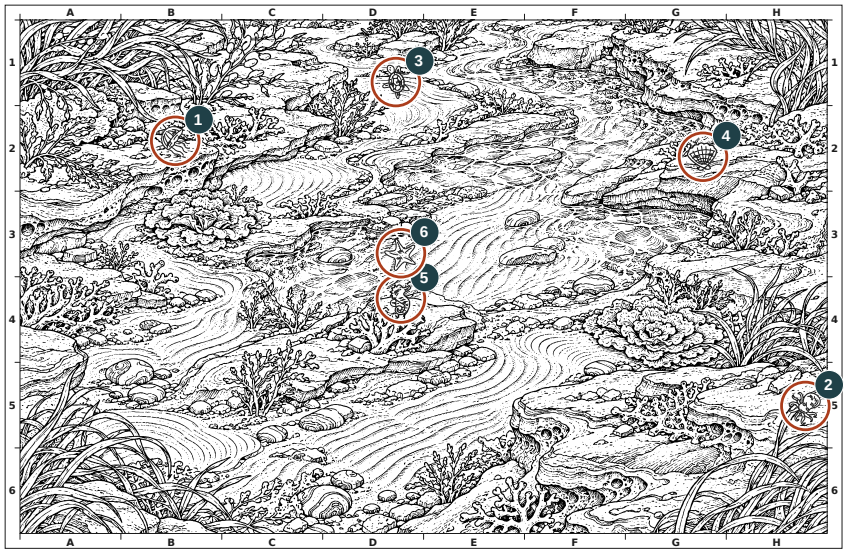
09 Mangrove Maze



10 Submarine Station



11 Tidal Sand Maze



Using the overlays

Look up a single number, then return to the full board with your wand. The animals in the legend are in the same order as the expedition log.

50 mm at actual size

Coordinates and secret words

Use this page to check a completed log. Each of the six cells gives one letter on the tide decoder.

Dive		 Jellyfish	 Octopus	 Sea turtle	 Scallop	 Seahorse	 Sea star	Secret word
01	Coral Arch Reef	B3	H2	F5	C5	G3	D2	**GROTTO**
02	Ribbon Kelp Forest	F6	B2	D2	D5	H1	E4	**FRONDS**
03	Shipwreck Cove	H6	B1	C4	B4	B5	H2	**ANCHOR**
04	Beneath the Pier	D1	G1	D4	H5	G4	B3	**PILING**
05	Seagrass Meadow	E6	D3	D6	H1	D2	H4	**MEADOW**
06	Basalt Stairway	F1	B5	H3	C3	E6	B1	**COLUMN**
07	Anchor Bay	C4	B4	F3	A2	A1	E5	**CHAINS**
08	Sunken Courtyard	A6	D2	E5	H6	G5	F1	**MOSAIC**
09	Mangrove Maze	C2	F3	D5	F5	G2	F4	**CANOPY**
10	Submarine Station	A4	A2	B6	G5	D5	E2	**DIVING**
11	Tidal Sand Maze	B2	H5	D1	G2	D4	D3	**RIPPLE**

50 mm at actual size