Navy submarine under the northern lights

Sized for a 6 inch hoop (15 cm). The stitched design is about 4.7 × 4.7 in (11.9 × 11.9 cm).



Which color goes where: by number on page 2.
Fabric: navy cotton or linen.

Stitch in this order

Filled parts from the back of the picture forward, then lines and knots.

1. **Long and short stitch**, 1 strand
   Sky, ice plain, black water, light in the water, hull, tower, snow floe, snow drifts, light on the snow, seal, seal flipper
2. **Satin stitch**, 2 strands
   Ice ridge, ice edge, ice floes, rudder, masts, tower planes, hatch door, hatch light, light on the hull, ice blocks, snow on the tower, and 2 more
3. **Split stitch**, strands by part on page 2
   Rim light, hull seams, deck line, tower seams, waterline, hatch frame, seal edge, warm light on the seal
4. **Stem stitch**, strands by part on page 2
   Rim light, edge
5. **Straight stitch**, strands by part on page 2
   Hull vents, eye light, whiskers
6. **French knot**
   strands by part on page 2, two wraps
   Stars, seal nose

Floss

- **1 DMC 939 Very Dark Navy Blue** Sky (shade 1 of 7), black water (darker)
- **2 DMC 336 Navy Blue** Sky (shade 2 of 7), edge, black water (lighter)
- **3 DMC 3837 Ultra Dark Lavender**
  Sky (shade 3 of 7), light in the water (darkest)
- **4 DMC 3760 Medium Wedgwood**
  Sky (shade 4 of 7), light in the water (dark)
- **5 DMC 943 Medium Aquamarine**
  Sky (shade 5 of 7), rim light (darker), light in the water (middle)
- **6 DMC 954 Nile Green**
  Sky (shade 6 of 7), light in the water (light), rim light (lighter)
- **7 DMC 369 Very Light Pistachio Green**
  Light in the water (lightest), sky (shade 7 of 7)
- **8 DMC 504 Very Light Blue Green** Ice plain (light), snow drifts (middle)
- **9 DMC 931 Medium Antique Blue**
  Ice edge (darker), ice ridge, ice blocks and ice plain (darkest), seal shadow
- **10 DMC 932 Light Antique Blue**
  Ice plain, ice ridge and snow drifts (dark), snow floe (darkest) and 4 more parts
- **11 DMC 3752 Very Light Antique Blue**
  Snow floe (dark), ice plain (middle), ice blocks and ice ridge (light) and 2 more parts
- **12 DMC 3753 Ultra Very Light Antique Blue**
  Snow floe (light), ice plain and ice ridge (lightest), ice floes (middle)
- **13 DMC B5200 Snow White**
  Snow floe, ice blocks and light on the snow (lightest), stars and 5 more parts
- **14 DMC 310 Black**
  Hull and tower (darkest), tower planes, masts and rudder (darker) and 8 more parts
- **15 DMC 3799 Very Dark Pewter Gray**
  Tower and hull (dark), seal (darkest), rudder (lighter), seal edge and seal flipper
- **16 DMC 413 Dark Pewter Gray**
  Hull and tower (light), seal (dark), masts (lighter)
- **17 DMC 414 Dark Steel Gray** Seal (light), hull and tower (lightest)
- **18 DMC 745 Light Pale Yellow** Light on the snow and hatch light (light)
- **19 DMC 741 Medium Tangerine**
  Light on the snow (darkest), hatch light (dark), light on the hull (darker)
- **20 DMC 743 Medium Yellow**
  Light on the snow (dark), light on the hull (lighter) and 2 more parts

Three ways onto dark fabric

1. **Light shines through it**
   Lay page 3 on a bright light box, tape the fabric over it and trace the lines with a white marking pencil or pen.
2. **No light shines through**
   Print page 3 on a sticky wash-away sheet, smooth it onto fabric that can be washed, stitch through both and rinse it away.
3. **White or yellow carbon paper**
   Lay it colored side down on the fabric with page 3 on top, tape the layers and trace firmly with a ballpoint pen. Go over a faint line with a white pencil.

Page 3 is the pattern at actual size (page 4 is its mirror, for an iron-on pen on a light fabric). Print it at 100% with scaling turned off. Then put the fabric in the hoop: inner ring under, drawing up, tight as a drum.

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Navy submarine under the northern lights

6 inch hoop

How to read it

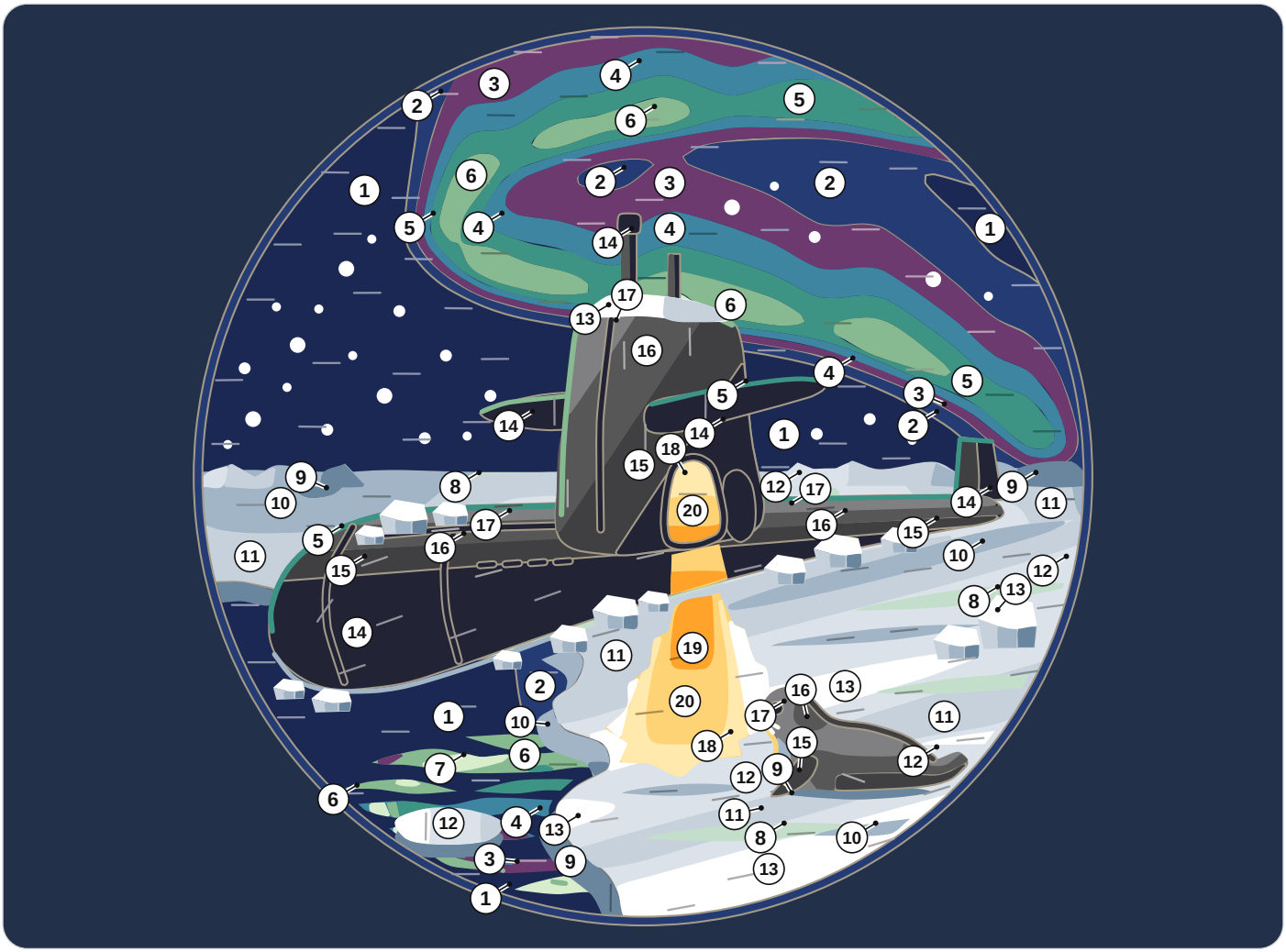
Floss is six strands. Cut 18 inches (45 cm), pull out the number given one at a time, and lay them together.

Inside a filled shape start with two or three tiny stitches, which the filling covers. Start a line with a small knot on the back. End each thread by running the needle under the backs of a few stitches.

Each small ring is one French knot. A fine broken line inside a shape is where two shades meet: trace it, do not stitch it.

A number on the picture is a color of the list of floss on page 1. The fine lines on the colors show which way the stitches lie.

Every stitch in pictures: flossfield.com/embroidery/stitches. The first time: flossfield.com/embroidery/guides/how-to-start.



1	DMC 939 Very Dark Navy Blue	**8**	DMC 504 Very Light Blue Green	**15**	DMC 3799 Very Dark Pewter Gray
2	DMC 336 Navy Blue	**9**	DMC 931 Medium Antique Blue	**16**	DMC 413 Dark Pewter Gray
3	DMC 3837 Ultra Dark Lavender	**10**	DMC 932 Light Antique Blue	**17**	DMC 414 Dark Steel Gray
4	DMC 3760 Medium Wedgwood	**11**	DMC 3752 Very Light Antique Blue	**18**	DMC 745 Light Pale Yellow
5	DMC 943 Medium Aquamarine	**12**	DMC 3753 Ultra Very Light Antique Bl...	**19**	DMC 741 Medium Tangerine
6	DMC 954 Nile Green	**13**	DMC B5200 Snow White	**20**	DMC 743 Medium Yellow
7	DMC 369 Very Light Pistachio Green	**14**	DMC 310 Black		

How many strands

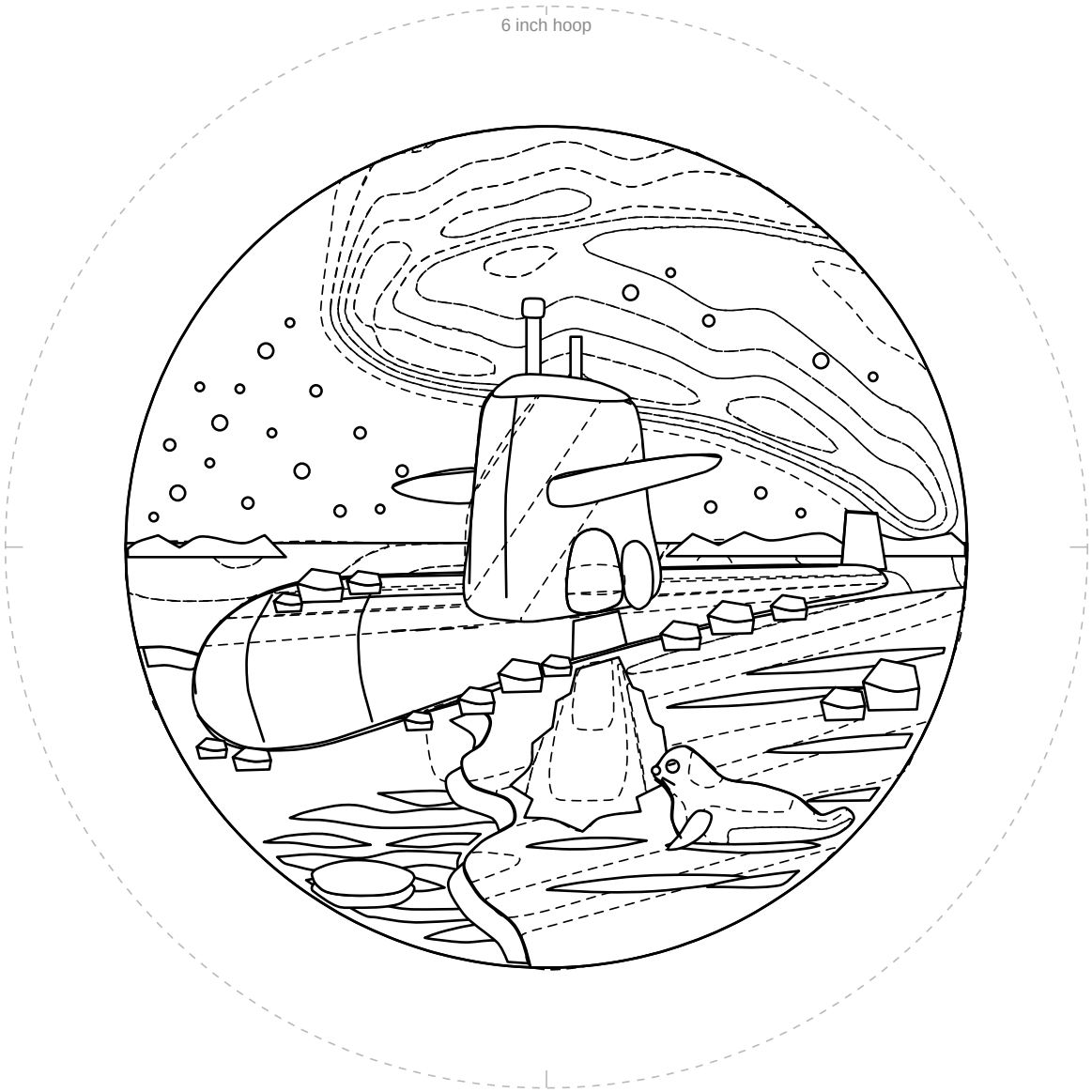
Split stitch. 2 strands: warm light on the seal; 1 strand: rim light, hull seams, deck line, tower seams, waterline, hatch frame, seal edge.
Stem stitch. 3 strands: edge; 2 strands: rim light.
Straight stitch. 2 strands: hull vents; 1 strand: eye light, whiskers.
French knot. 1 or 2 strands: stars; 1 strand: seal nose.

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6 inch hoop

Print at 100% and check the square below with a ruler. Fold the fabric in four: the folds meet the four ticks of the ring.



1 in
25.4 mm

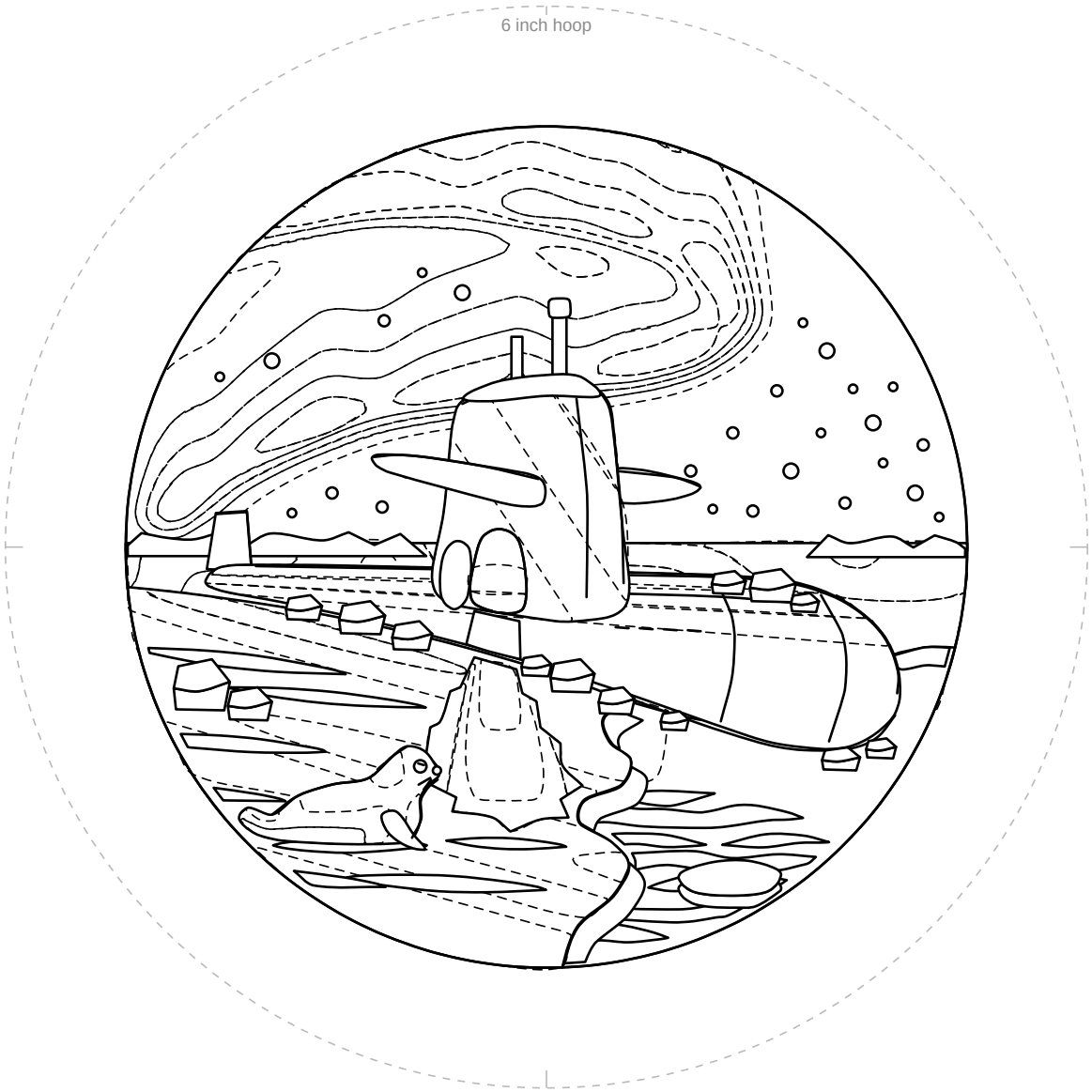
Check square: 1 inch (25.4 mm) on each side.
If it measures anything else, print again at 100% with scaling off.

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6 inch hoop

Mirrored. Trace this page with an iron-on transfer pen or pencil, then press it ink side down on the fabric.



1 in
25.4 mm

Check square: 1 inch (25.4 mm) on each side.
If it measures anything else, print again at 100% with scaling off.

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