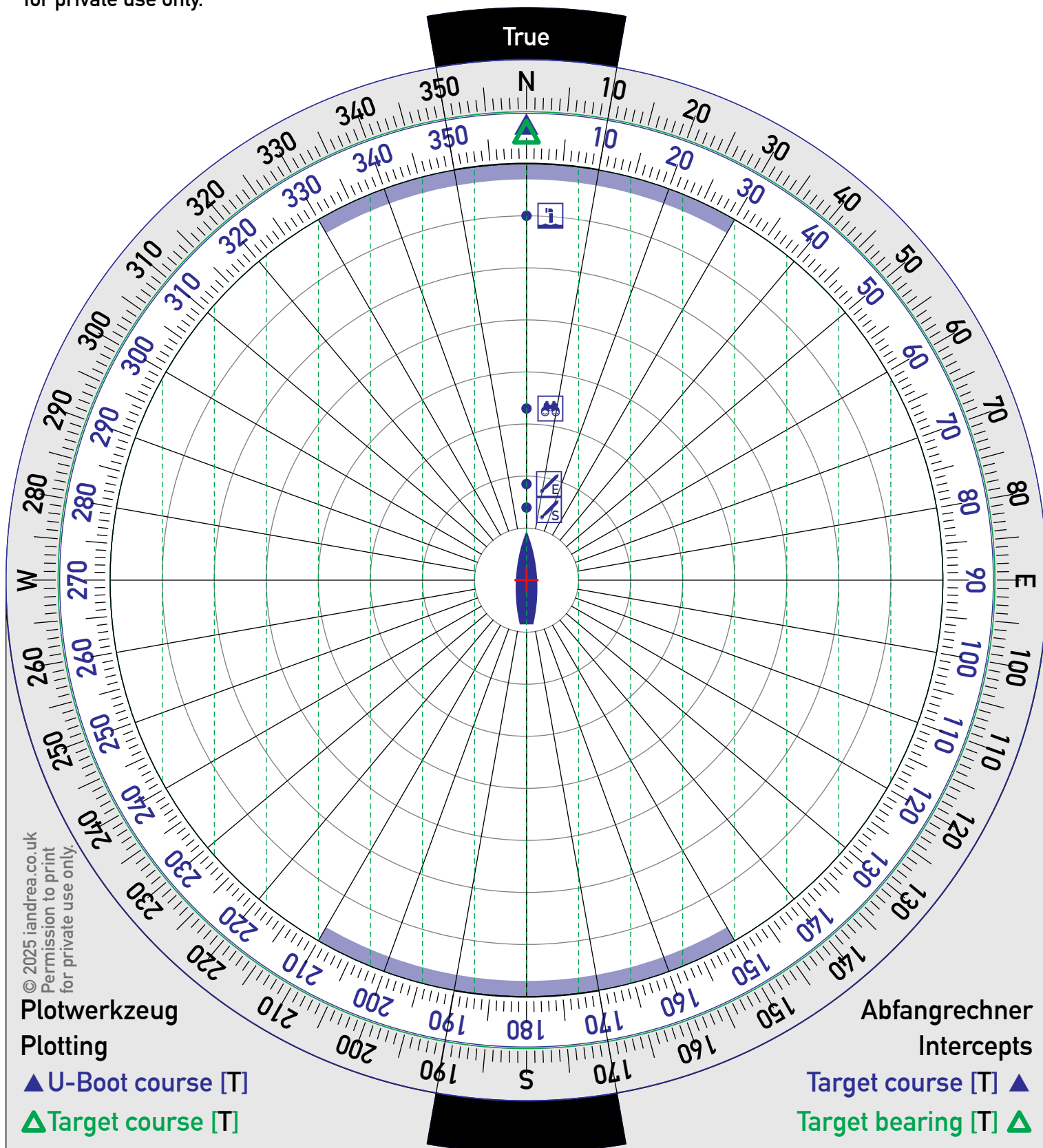


U-BOOT Plotwerkzeug U-BOOT Plotting tool

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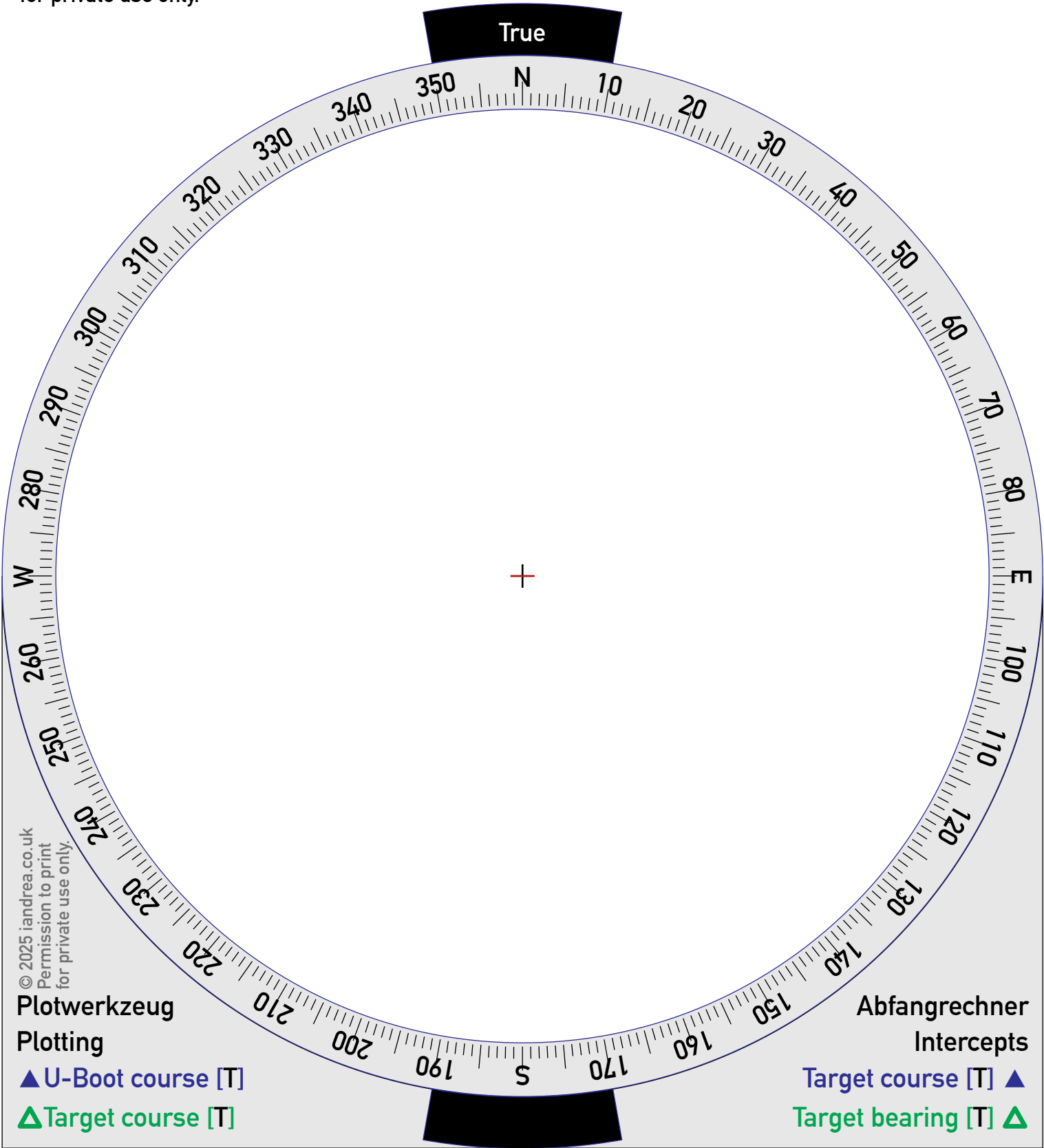
Finished appearance



U-BOOT Plotwerkzeug
U-BOOT Plotting tool

Base
Print on paper

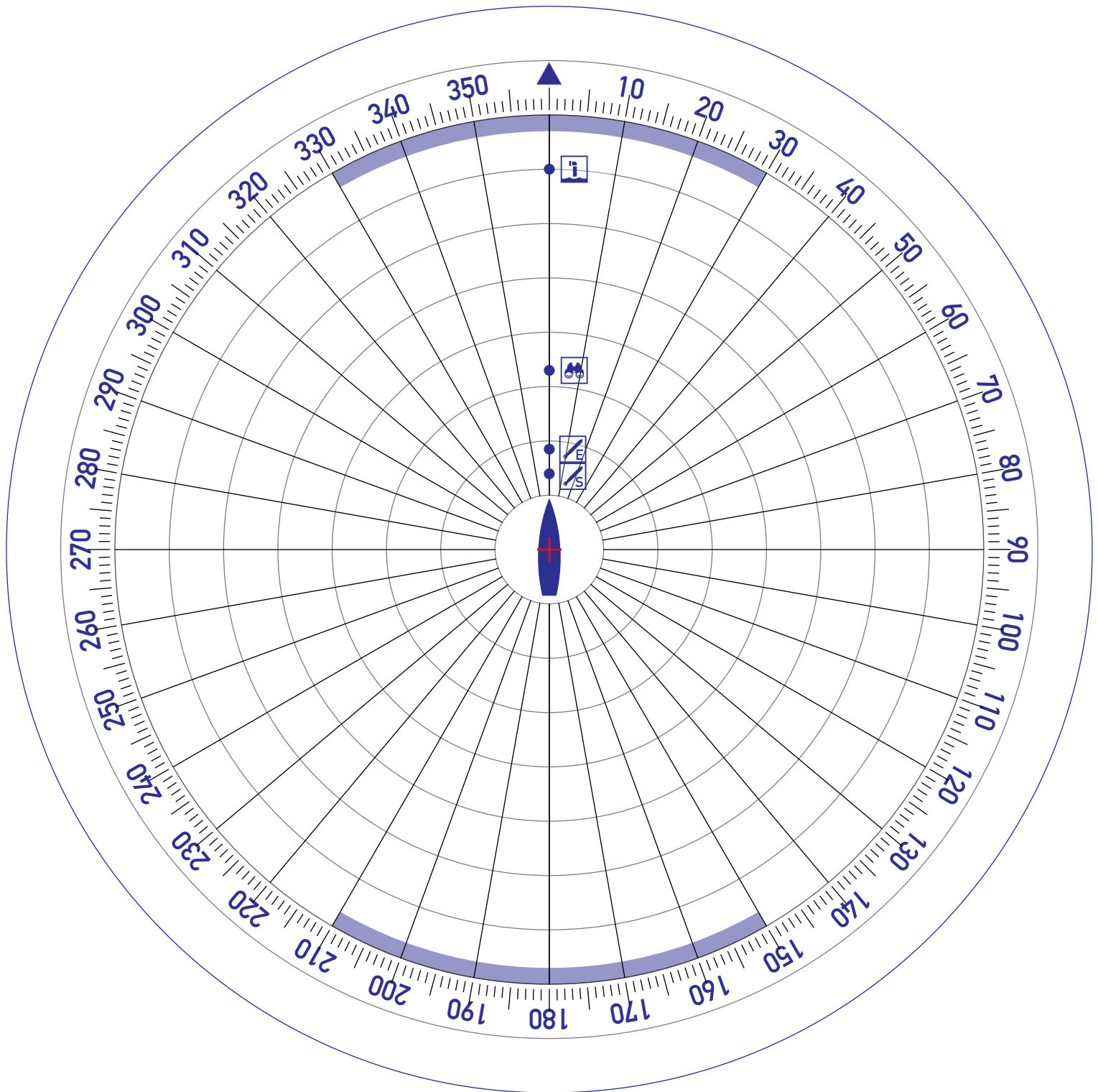
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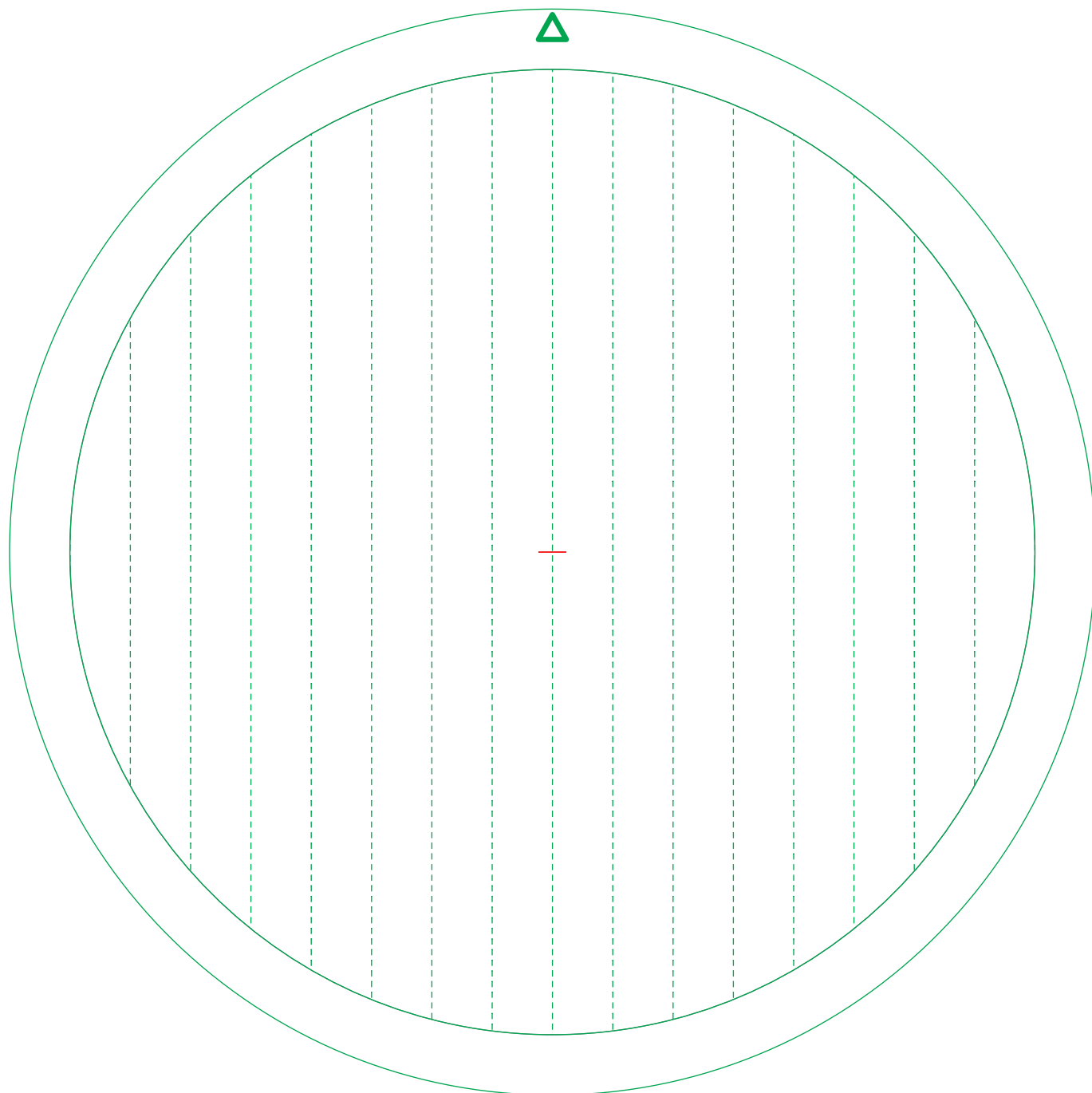


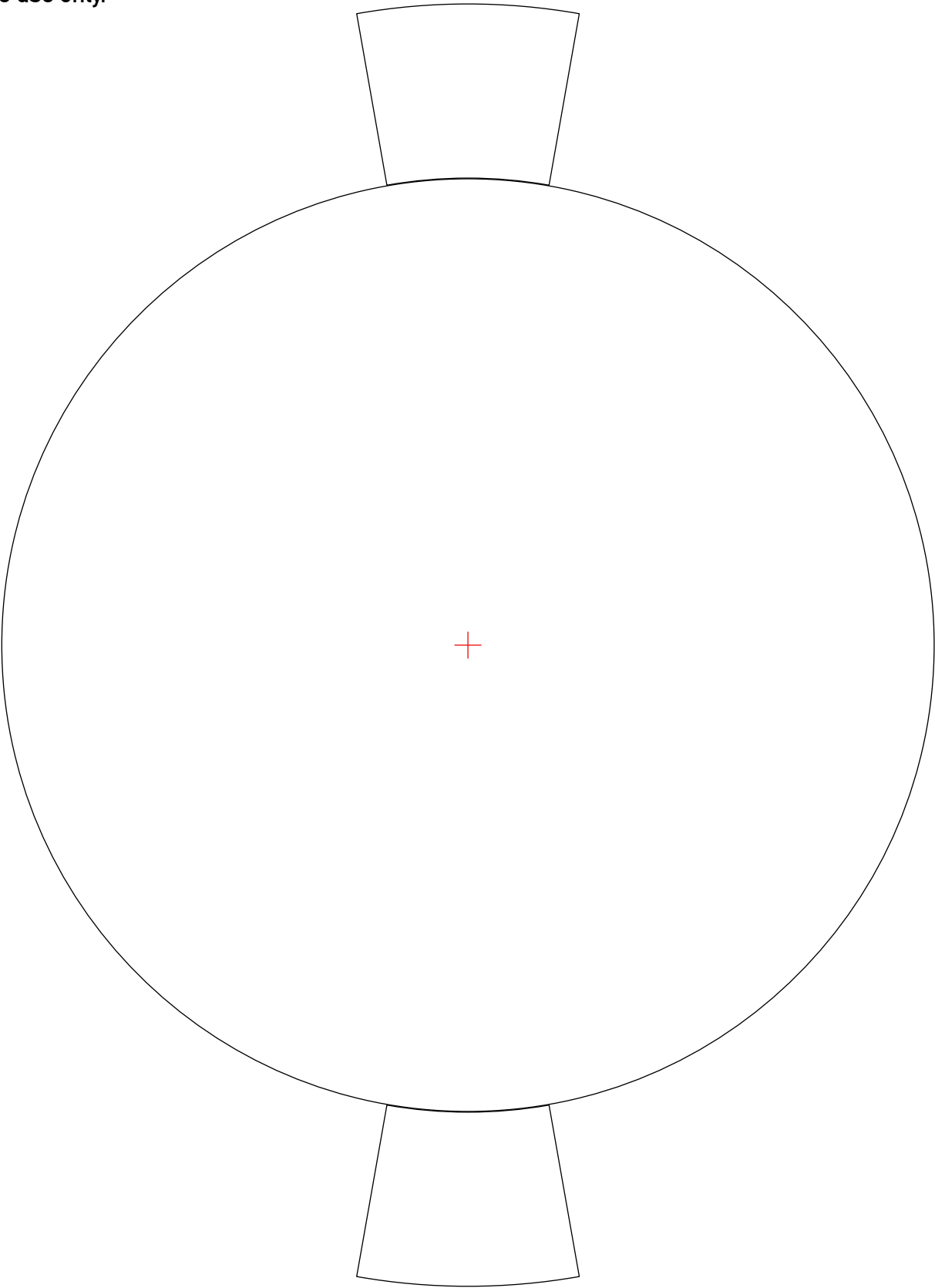
U-BOOT Plotwerkzeug
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Blue disk: U-Boot course; target course
Print on transparency

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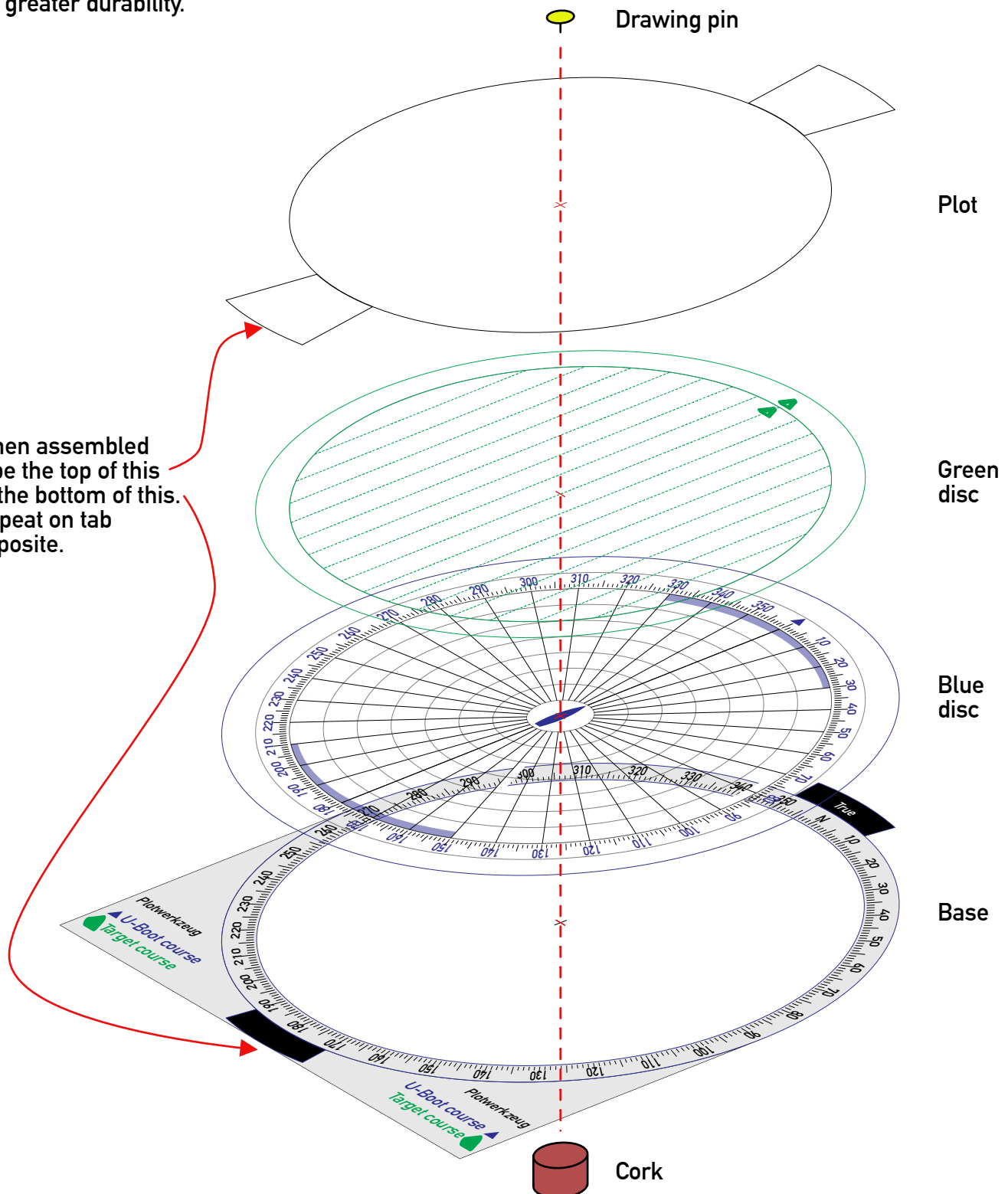
U-BOOT Plotwerkzeug U-BOOT Plotting tool

Assembly

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Heat laminate the components
for greater durability.

When assembled
tape the top of this
to the bottom of this.
Repeat on tab
opposite.



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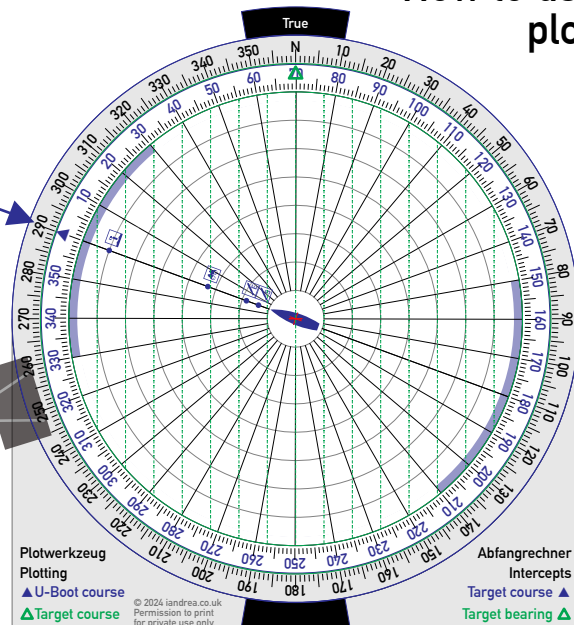
Refer to these instructions.

The U-Boot is following course
290° (northwest) when the First
Officer reports a contact:
Bearing 40° (ahead, right)
Distance four miles
Course 70° (northeast).
U-Boot on course 290°.

Rotate blue disc until the blue
arrow points to 290° on the outer
grey disc.

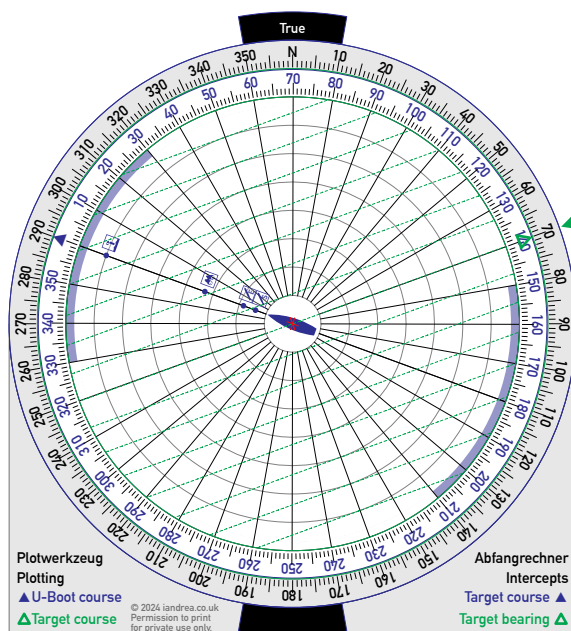
It helps to use a peg or clip on the
outside edge to prevent this disc
from moving (until you make a
course change).

How to use for
plotting



Target course 70° (northeast).

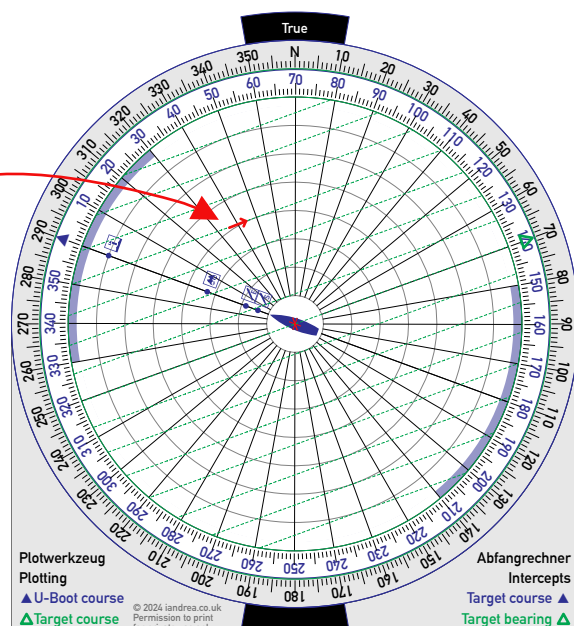
Rotate green disc until the green
arrows point to 70° on the outer
grey disc.



Target Bearing 40°
Distance four miles

Target arrow is added with a
water-soluble pen or chinagraph
pencil. Use the blue rings and
numbers as guidance. 4 miles,
40°.

Align the target arrow along the
green dotted lines, in the direction
of the green arrow.



U-BOOT Plotwerkzeug U-BOOT Plotting tool

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Refer to these instructions.

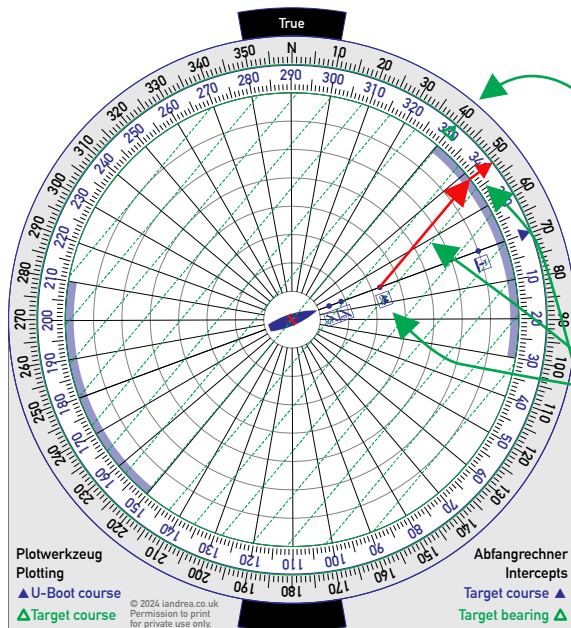
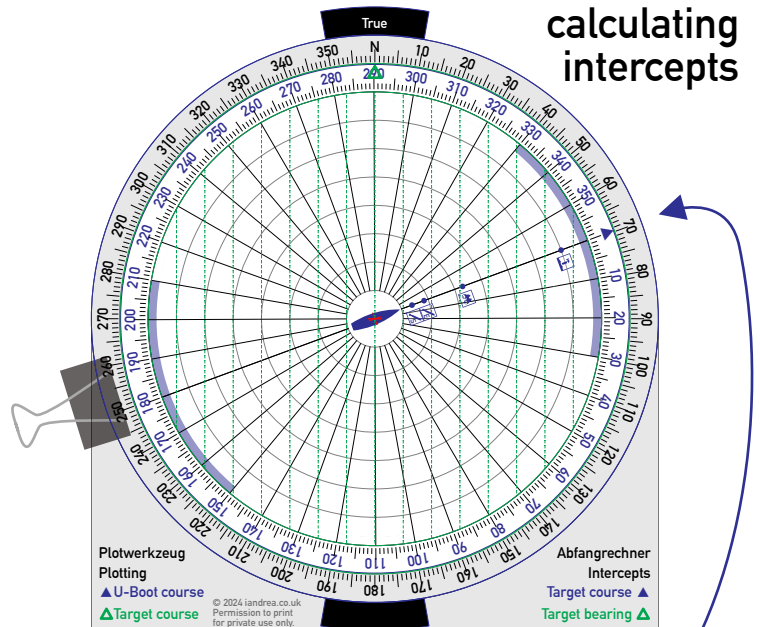
The U-Boot is on the surface,
travelling at full speed.
The First Officer reports a
merchant contact:
True bearing 40° (ahead, right)
Course 70° (northeast).

What course should we sail to
intercept?

Target on course 70°.

Rotate the blue disc until the blue
arrow points to 70° on the outer
grey disc.

How to use for
calculating
intercepts



Target bearing 40°.

Rotate the green disc until the green
arrows point to 40° on the outer grey disc.

Locate the appropriate blue symbol for
your speed.
Periscope = submerged U-Boot
Observer = surfaced U-Boot <- this one in
this example
Torpedo E = electric torpedo
Torpedo S = steam torpedo

Trace parallel to the green lines out to the
green circle, in the direction of the target's
bearing.

Trace out radially to the grey circle. U-Boot
needs to bear 52° true.

Assumptions

The following speeds are
assumed:

Merchant ship: 7 kt
U-Boot (surface): 17 kt
U-Boot (submerged): 8 kt
Torpedo (electric): 30 kt
Torpedo (steam): 40 kt

NOTE WELL

All bearings are true.

You will need to convert the normally
relative bearing of the contact to a true
bearing.