

The planispheres

Main features:

- ★ Easy to use, the whole year through.
- ★ Suitable as from 10-12 years of age.
- ★ A very accurate, well thought-out and pretty design.
- ★ With over 700 stars in the two original designs (one for the northern and one for the southern celestial hemisphere).
- ★ With over 300 "binocular objects": deep-sky objects such as double stars, variable stars, open and globular clusters, diffuse and planetary nebulae and galaxies. Besides various interesting objects (like the closest star) and points (like the centre of the Milky Way galaxy).
- ★ With right ascension and declination, allowing you to locate planets, asteroids and comets.
- ★ With clear instructions and great tips to use the planisphere more imaginative, like determining the times of sunrise and sunset.
- ★ Available for latitudes covering the entire populated world!
- ★ Very affordable!

Programme

code	description	price (€)	ISBN
(978-90-....)			
English planispheres*:			
PLN-60	Planisphere for 60°N	9,95	801496-0-1
PLN-50	Planisphere for 50°N	9,95	801496-3-2
PLN-40	Planisphere for 40°N	9,95	801496-5-6
PLN-30	Planisphere for 30°N	9,95	801496-4-9
PLN-20	Planisphere for 20°N	9,95	803243-9-8
PLN-EQR	Double Planisphere for the Equator	17,95	803243-8-1
PLN-S20	Planisphere for 20°S	9,95	803243-5-0
PLN-S30	Planisphere for 30°S	9,95	803243-6-7
PLN-S40	Planisphere for 40°S	9,95	803243-7-4
Planispheres in other languages*:			
PLN-47F	French Planisphère pour 47° nord	9,95	801496-7-0
PLN-20F	French Planisphère pour 20° nord	9,95	77052-20-4
PLN-50D	German Planisphäre für 50° Nord	9,95	801496-6-3
PLN-40Sp	Spanish planisferio for 40°N	9,95	77052-08-2
PLN-S30Sp	Spanish planisferio for 30°S	9,95	77052-06-8
PLN-42It	Italian planisfero for 42°N	9,95	803243-3-6
PLN-NL	Dutch planisfeer voor 52°N	9,95	801496-1-8
PLN-40NL	Dutch planisfeer voor 40°N	9,95	801496-2-5
PLN-50NL	Dutch planisfeer voor 50°N	9,95	801496-9-4
PLN-60NL	Dutch planisfeer voor 60°N	9,95	801496-8-7

Planispheres in Danish, Norwegian and Swedish available via our customers in those countries. Please check www.walrecht.nl.

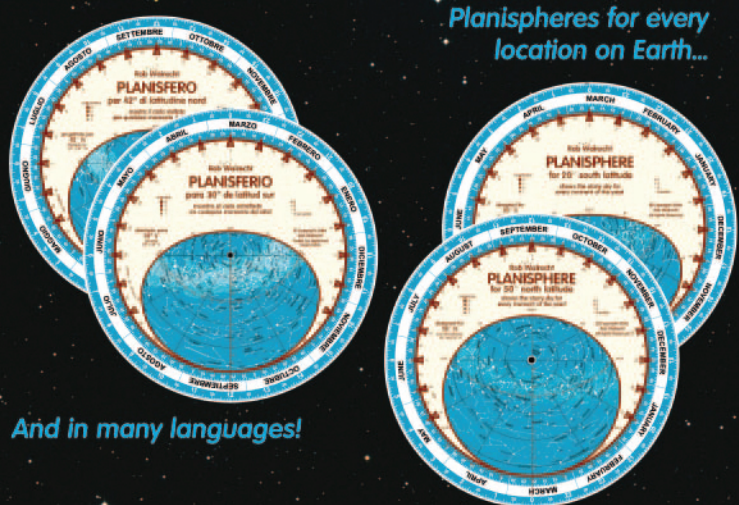
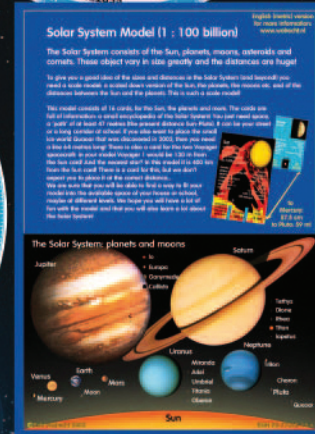
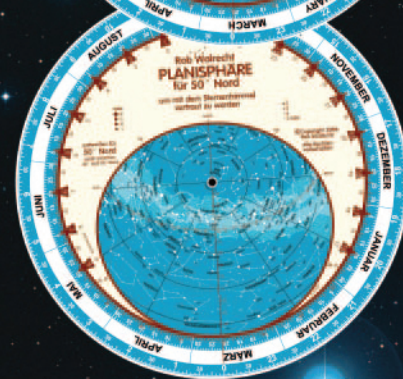
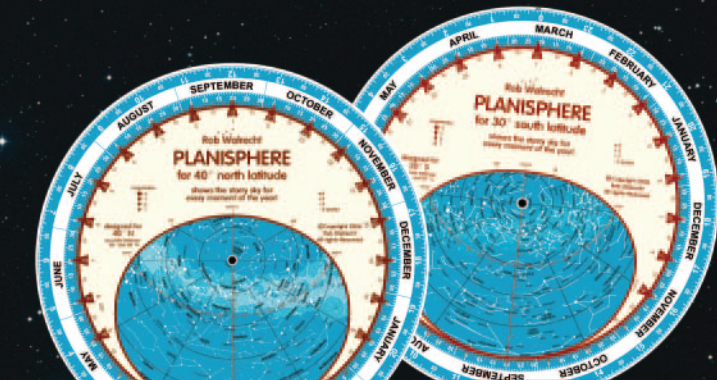
Books (currently only in Dutch):

B-01	Genieten van de sterrenhemel	14,95	77052-01-3
B-02	Genieten van het zonnestelsel	14,95	77052-21-1
B-03	Genieten van het heelal	14,95	77052-21-8

Other products:

MDL-SS	Solar System Model - English metric	9,95	77052-17-4
1:100 billion scale model/concise encyclopedia			
MDL-SS-US	Solar System Model - US version	9,95	77052-14-3
1:100 billion scale model/concise encyclopedia			
STW-40	"Build-it-yourself" star wheel 40°N	2,50	77052-12-9
STW-50	"Build-it-yourself" star wheel 50°N	2,50	77052-11-2
SDL-50	"Build-it-yourself" sundial 50°N	2,50	77052-09-9

*A planisphere can be used best between -5° and $+5^{\circ}$ of the design latitude; the PLN-30 for instance is perfect between 25 and 35° north. An atlas will show you what planisphere you need.



And in many languages!

Planispheres for every location on Earth...



More information:

Rob Walrecht Productions
www.walrecht.nl ★ info@walrecht.nl

planispheres and other great astronomy products for anyone who wants to know more about the stars

Rob Walrecht's planispheres: Your Guide to the Stars!

Do you marvel at a spectacular starry sky now and then? Do you wish you knew MORE about what you see? Would you like to be able to find your "own" constellation? If so, you're not the only one...

There is a solution: Rob Walrecht's planisphere is the perfect way to learn how to recognise the stars and the constellations.

A planisphere consists of a star chart containing all the stars and constellations that are visible. However, we can never see all the stars at the same time! Stars rise and set and every season has its own constellations. Therefore the planisphere has a second disc on top of the star chart, one that shows exactly the part of the sky that is visible at a certain moment. That moment can be easily and accurately set for the desired date and time.

In addition to 700 stars the planisphere contains some 300 "binocular objects". These deep-sky objects are visible to the naked eye or at least through a regular pair of binoculars, and include double stars, variable stars, open and globular clusters, diffuse and planetary nebulae and galaxies. Several special "points" (like the centre of our Milky Way galaxy) are also depicted in the star chart as are a few faint but interesting stars (like Proxima Centauri, the next star closest to us, although not visible without a large telescope).

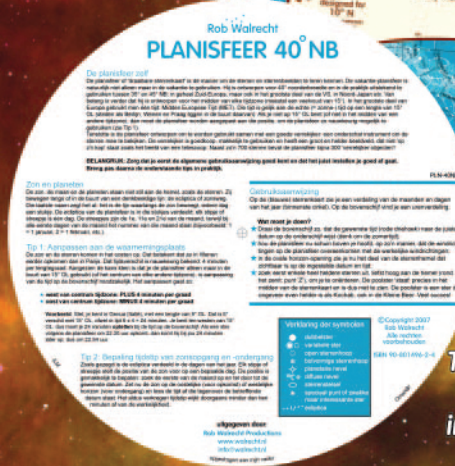
The planisphere also features the celestial coordinates (right ascension and declination) which allow you to locate the positions of stars, planets, comets and other interesting objects!

Finally, the planispheres enables you to determine when the Sun will rise and set with an astonishing accuracy!

There is a specific zone in which each planisphere works best, within a 10 degrees wide band across the Earth, from approx. +5° to -5° of the given design latitude. For example, the PLN-30 is perfect between 25 to 35 degrees north; such as Florida, Morocco, Kuwait, Pakistan and Shanghai.

An atlas will show you what planisphere you will need for a certain area of the world.

PLN-EQR:
25 x 25 cm
(10 x 10 inch)
with two
star charts



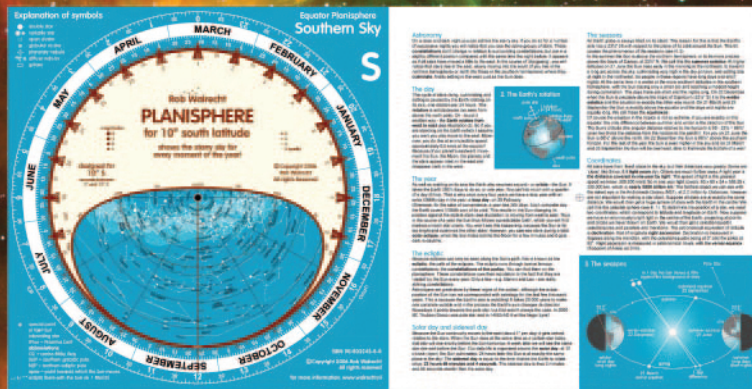
The round planispheres (25 cm/10 inch) have instructions on the back

Jupiter
5th planet

distance to the Sun:	778,300,000 km
diameter:	142,796 km
orbital period (Year):	11 years, 315 d
rotation period (day):	9 hours, 45 m, 46 s
mass (Earth = 1):	318
number of moons:	60 + thin rings
large moons:	Io, Europa, Ganymedes, Callisto
temperatures:	24,000° C (core), -150° C (clouds)
atmosphere:	86.4% hydrogen, 13.6% helium

distance local:	7.8 m	background:	Jupiter	size:	1.4 mm
	100 x larger				

The Jupiter card of our unique and very instructive Solar System scale model



The PLN-EQR spread out

Solar System Model (1 : 100 billion)

The Solar System consists of the Sun, planets, moons, asteroids and comets. These objects vary in size greatly and the distances are huge!

To give you a good idea of the sizes and distances in the Solar System (and beyond) you need a scale model! A scaled-down version of the Sun, the planets, the moons etc. and of the distances between the Sun and the planets. This is such a scale model!

This model consists of 16 cards. For the Sun, the planets and moons, the cards are full of information: a small encyclopedia of the Solar System! You just need space, a pencil or at least 47 metres (the present distance Sun-Pluto). It can be your desk or a long corridor at school. If you also want to show the actual size would October that was discovered in 2003, then you need to buy 24 metres long! There is also a card for the Voyager spacecraft in your model! Voyager 1 would be 130 m from the Sun and the nearest star! In this model it is 400 km from the Sun and there is a card for this, but you do not need to place it at the correct distance.

You can use that size to make a map of the sky. It is very easy to make a map of the visible space of your home or school, maybe of different levels. We hope you will find a lot of fun with the model and that you will also learn a lot about the Solar System!

The Solar System: planets and moons

- Sun
- Jupiter
- Saturn
- Uranus
- Neptune
- Venus
- Earth
- Mars
- Mercury
- Moon
- Europa
- Ganymede
- Callisto
- Triton
- Charon
- Pluto
- Uranus
- Neptune
- Pluto
- Uranus
- Neptune
- Pluto

Solar System scale model

This unique product is both a scale model and concise encyclopedia of the Solar System in one!

It consists of sixteen information-packed cards (10x12 cm or 4x5 inch), all pertaining to the Sun, the planets, the Moon, asteroids, comets and the new class to which Pluto now belongs, the dwarf planets. These cards are a quick way to learn all there is to know about these objects, as well as being ideal for youngsters, papers and talks!

Primarily, however, it is an exquisite scale model (scale 1:100 billion) of our fascinating Solar System, presenting the best possible representation of the distances within our Solar System as well as the unimaginable emptiness of the universe.

In this scale model, the Sun is the size of a marble (14 mm), Jupiter, which is at 8 m/26 ft from the Sun, as large as a plastic pin-head, the Earth (at 1.5 m/5 ft) as large as a grain of coarse sand, Mars (at 2.3 m/7.5 ft) as large as a grain of fine sand and Pluto, which would now be at 47 m/155 ft from the Sun, as large as a dust particle... The scale model, when completely placed, is 64 m (210 ft) long. The closest next star is at 400 km (250 miles) from the Sun!

The cards show the sizes of the Heavenly bodies at scale, as well as these sizes one hundred times "enlarged", for better comparison of the planets.

Special standards to place them are included and the cards contain holes to be hung on the wall or from sticks.