

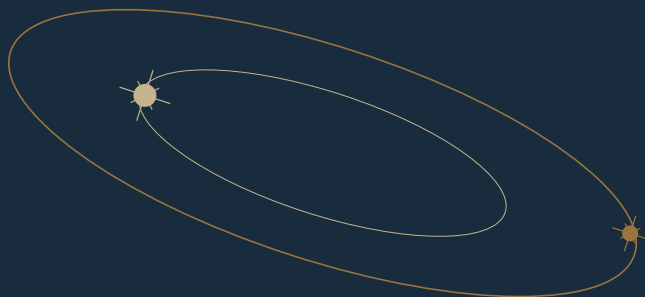
ISDORA

CELESTIAL LIBRARY

PSI01 DRA A · VISUAL A/B

psi01 Dra A

A light for our story



ISDORA · CELESTIAL LIBRARY

A story among the stars

Celestial Library edition



*Every light holds a story. These pages
follow its journey, from the heart of the
star to the sky we share.*

The sky, page by page

A · HIP 86614 | B · HIP 86620

ISDORA-LIBRARY

CONTENTS

A story beneath the stars

One light among many	4
The colour of its fire	5
The journey ending here	6
A landscape for imagination	7
The companion found in old spectra	8
The threshold of another chapter	9
Measuring with two glances	10
Two lights, one journey	11
The night of finding it	12
Somewhere to return	13

ISDORA CELESTIAL LIBRARY

ISDORA-LIBRARY

psi01 Dra A • visual A/B

One light among many

Some nights begin when we stop hurrying. The day withdraws, our eyes learn the darkness and, little by little, the stars appear. Among them is Psi¹ Draconis. Until now it may have been another distant light; pausing to look is the beginning of giving it a place in our own story.

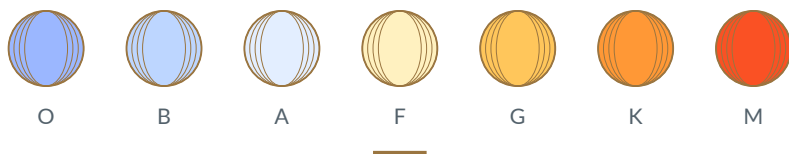
A dedication begins with that simple gesture: choosing something beautiful and wanting to share it. The star will continue on its way, beyond our calendars, while here below its light can accompany a date, a name or words we wish to keep. Immensity takes on an intimate measure: the measure of what matters to us.

The colour of its fire

The light of Psi¹ Draconis has a character of its own. The F family occupies a delicate place between white and gold. Its brightness suggests a lamp still keeping the freshness of dawn. A temperature is hidden within that tint: nature writes information even into what we experience as beauty.

To the unaided eye, a stellar colour can be little more than a whisper. The atmosphere makes it tremble and our eyes receive it in their own way. Beyond that point we can imagine a living surface of hot matter: the visible beauty of processes working on a scale far greater than ours.

SEVEN FAMILIES OF LIGHT



Light keeps the colours of its origin.

The journey ending here

The light of Psi¹ Draconis crosses approximately 71.9 light-years to reach us. The brightness we receive has therefore spent about 71.9 years on its way. Distance becomes time: looking at this star means meeting light that began travelling before this moment. When it set out, the Sun and its planets already shared a history billions of years old. On their scale, this journey is barely a breath.

Its light travels on something like the scale by which we count a life. While it moved, streets changed, trees grew and many stories found their beginning. In a single glance, the star lets us receive something that has crossed years of the world.

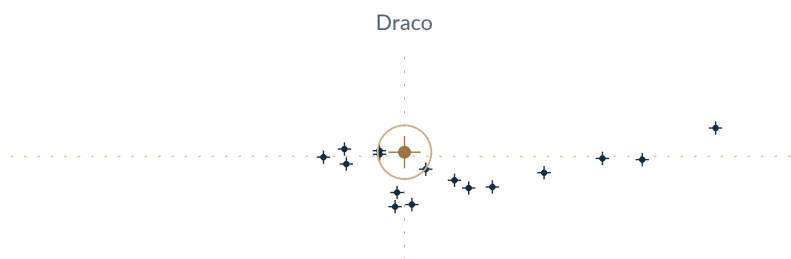


From its sky to our night.

A landscape for imagination

Psi¹ Draconis lies in the region of the Dragon. The Dragon gives darkness a shape we can follow. In our imagination, its body guards the silence of the sky like someone protecting a story that has not yet ended.

Figures in the sky are a human way of approaching immensity. In our gaze they join lights that may lie at very different distances. Imagination stretches the thread; the stars provide the brightness. A single landscape can therefore keep old images while receiving a story that begins tonight.



Its light, among other lights of the constellation.

The companion found in old spectra

A decade of planet-search spectra held a different discovery: a low-mass stellar companion, designated C, to Psi¹ Draconis A. In 2015, researchers recovered its spectral lines through cross-correlation, finding a companion too close to A for ordinary imaging to separate. This discovery belongs to A and its close subsystem, not to the selected visual A/B pair.

We can imagine years of archived light waiting to be read in a new way. Data gathered for one search became a doorway into another. Psi Draconis reminds us that careful attention sometimes finds a companion in the record before it can be separated in the sky.

The threshold of another chapter

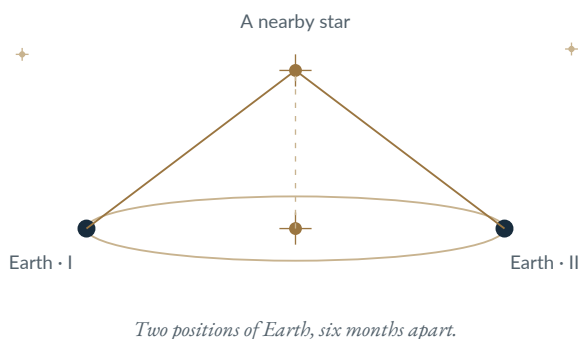
A subgiant stands within a transition in its stellar history. The balance that supported a long stage begins to change, and the star responds within both its interior and envelope. We can imagine it on a threshold: still keeping something of what it was, already learning another way to shine.

To approach Psi¹ Draconis, we can let that scale widen our imagination. A stellar age is unlike a birthday: it speaks of changing matter, of energy finding a way out, of a balance sustained and transformed. Tonight's light is one page of that time, and we happen to be here to receive it.

Measuring with two glances

To begin measuring a stellar distance, Earth offers us a movement. We observe from one side of its orbit and look again about six months later from the other. A nearby star seems to shift slightly against more distant ones. That small change of perspective is called parallax.

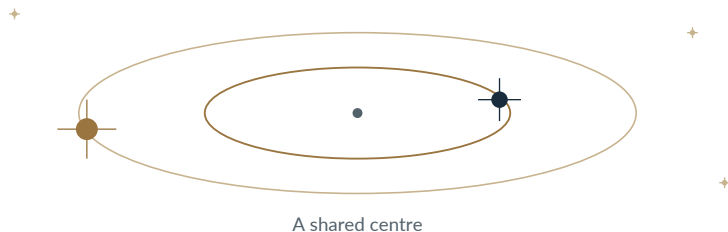
We can feel the principle by looking at a finger with one eye and then the other. What fits between two glances at home requires our planet's journey in the sky. There is something beautiful in that patience: to learn how far a light is from us, we first learned to look from somewhere else.



Two lights, one journey

This story brings together HIP 86614 and HIP 86620. Two distinct lights now share one gaze. Each star keeps its own brightness; together they make a figure we can find and remember. The physics of binary systems also offers the image of a dance around a shared centre. We can carry that image into the sky without asking its partners to be identical before recognising the beauty of companionship.

The image allows an intimate comparison: companionship does not require ceasing to be oneself. There is space between the lights, and that space is part of the figure too. Night offers the beauty of two presences; our imagination finds in them a way of speaking about companionship.



Two lights, one shared gaze.

The night of finding it

We can begin with something simple: looking into a starry sky and letting our eyes grow used to darkness. The dedication page lets us choose a place and time to find where to look. Recognising the constellation first turns a distant map into a familiar landscape.

If a telescope joins the evening, a wide field is a gentle beginning. As a reference, a 114 mm Newtonian with a 500 mm focal length gives 20× with a 25 mm eyepiece. The star remains a point of light; the instrument gathers more of its brightness. The best memory may be the moment we leave the eyepiece and say: there it is.

Somewhere to return

We can close this booklet and let Psi¹ Draconis become a small light in an enormous night again. Something, though, will have changed. We now know part of its journey, a shade of its colour and a way to find it. What seemed far away has a place in our memory.

There will be clear nights and others when clouds keep the sky. Not every night will allow observing, but each can bring back the memory of this gesture. Sometimes a name is enough to return to a date, a voice, a few shared words. And when the light appears again, we will have one more reason to pause and look.

The traces of this story

ESA Hipparcos / VizieR

https://vizier.cds.unistra.fr/viz-bin/VizieR-5?-source=I/239/hip_main&HIP=86614

NASA · Our Sun

<https://science.nasa.gov/sun/facts/>

IAU · Constellations and their names

<https://iauarchive.eso.org/public/themes/constellations/>

Celestron · Choosing eyepieces

<https://www.celestron.com/blogs/knowledgebase/how-to-determine-which-eyepieces-to-use-with-your-telescope>

To keep discovering

NASA · The lives of stars

<https://science.nasa.gov/universe/stars/>

NASA · What is a light-year?

<https://science.nasa.gov/exoplanets/what-is-a-light-year/>

ESA · Measuring stellar distances by parallax

https://www.esa.int/ESA_Multimedia/Images/2013/06/Measuring_stellar_distances_by_parallax

Gullikson et al. · Hidden companion to psi1 Draconis A

<https://arxiv.org/abs/1511.01903>

Original ISDORA prose and illustrations. Images are artistic evocations or diagrams, not to scale. Distances are approximate. Constellation figures include contemporary literary readings.



May there always be a night
to look again.



psi01 Dra A · visual A/B

psi01 Dra A · visual A/B · ISDORA-LIBRARY

A · HIP 86614 | B · HIP 86620

A STORY OF LIGHT