

STAR GAZERS

SG 1832 - 5M

AUGUST 6-12, 2018

A RAINBOW OF
PLANETS (NEW
SHOW)

JAMES:

WELCOME TO
STAR GAZERS.

I'M JAMES
ALBURY,
DIRECTOR OF THE
KIKA SILVA PLA
PLANETARIUM IN
GAINESVILLE,
FLORIDA.

DEAN:
AND I'M DEAN
REGAS,

ASTRONOMER
FOR THE
CINCINNATI
OBSERVATORY.
WE'RE HERE TO
HELP YOU FIND
YOUR WAY
AROUND THE SKY.
I THINK THE BEST
WAY
TO REALLY GET

INTO ASTRONOMY
IS BY
DISCOVERING THE
PLANETS.

JAMES:
TOTALLY!
AND THIS MONTH
IT IS SUPER-EASY
TO FIND FOUR OF
THEM:

VENUS, JUPITER,
SATURN, AND
MARS.

DEAN:

THAT MAY SEEM
LIKE A WEIRD
ORDER TO PUT
THE PLANETS IN,
BUT THATS THE
ORDER IN WHICH

THEY WILL BE
LINED UP NICELY
IN AUGUST.

IN FACT, PLANETS
LIKE TO LINE UP.
ITS WHAT THEY
DO.

AND THE PLANETS
CAN OFTEN BE
FOUND ON,
OR NEAR THIS

LINE IN THE SKY
WE CALL THE
ECLIPTIC.

JAMES:
AND THOSE FOUR
PLANETS:
VENUS, JUPITER,
SATURN, AND
MARS ARE SO
EVENLY SPACED

ACROSS THE
ECLIPTIC THAT
THEY MAKE AN
ARC FROM THE
WESTERN
HORIZON, OVER
TO THE
SOUTHERN SKY,
AND THEN DOWN
TO
THE EAST.

DEAN:

WHEN I CONNECT
THE DOTS ON THE
PLANETS,
I IMAGINE AN
INTER-PLANETARY
RAINBOW ARCING
ACROSS THE SKY.

JAMES:

LETS CONNECT
THE DOTS AND
SHOW YOU HOW
TO FIND THE
FOUR FABULOUS
PLANETS OF
SUMMER!

(STOP DROP)

DEAN:

OKAY, WERE
FACING WEST AT
9:30PM.

THE SUN HAS
JUST GONE DOWN
AND THE FIRST
STARS ARE
POPPING OUT.

THAT ONE IS
VENUS AND
THERE IS

NOTHING QUITE
LIKE IT IN THE
SKY.

JAMES:
VENUS IS
DAZZLINGLY
BRIGHT!
THERES TWO
REASONS FOR
THIS:

1) VENUS IS
RELATIVELY
CLOSE TO US -
ONLY ABOUT 68
MILLION MILES
AWAY - AND

2) VENUS IS
COVERED IN
HIGHLY
REFLECTIVE
CLOUDS SO IT

BOUNCES
A WHOLE LOT OF
SUNLIGHT
TOWARD EARTH.

DEAN:
ITS REALLY COOL
TO THINK THAT
PLANETS ONLY
SHINE BECAUSE
OF THE SUN.

THEY DONT
GENERATE ANY
LIGHT OF THEIR
OWN. INSTEAD,
SUN-LIGHT
TRAVELS
MILLIONS OF
MILES, HITS THEIR
SURFACES, AND
BOUNCES BACK
TO OUR EYES.

JAMES:
WE WANT YOU TO
LOOK FOR VENUS
FIRST BECAUSE
AS WE GET
CLOSER TO 10PM,
IT WILL BARELY BE
ABOVE THE
WESTERN
HORIZON. YOU'LL

HAVE PLENTY
MORE TIME TO
SPOT THE OTHER
THREE PLANETS.
SO, WE OF-TEN
GO
PLANET-HUNTING
FROM RIGHT TO
LEFT - OR WEST
TO EAST.

--STOP--

JAMES:
NOW WE'RE
FACING THE
SOUTHWEST AND
THAT BRINGS US
TO PLANET #2.
AND ITS A BIGGIE!
THIS IS THE
LARGEST PLANET

IN THE SOLAR
SYSTEM,
HOLDER OF
69 MOONS, AND A
GREAT RED SPOT.
THAT IS JUPITER!

DEAN:
JUPITER,
ALTHOUGH NOT
NEARLY AS

BRIGHT AS
VENUS, IS
BRIGHTER THAN
ANY OTHER STAR
IN THE SKY.
SO FINDING IT
WITH THE NAKED
EYE IS
SUPER-EASY!

JAMES:

REMEMBER HOW
WE WERE
TALKING ABOUT
HOW THE
PLANETS LIKE
TO LINE UP ALONG
THE ECLIPTIC?
WELL, LETS ADD
THAT IMAGINARY
LINE,
AND WELL SEE

THAT IT ALMOST
CONNECTS THE
DOTS BETWEEN
VENUS AND
JUPITER.

DEAN:
AND IF WE KEEP
FOLLOWING THE
RAINBOW-LIKE
ARC OF THE

ECLIP-TIC,
WE'LL REACH THE
YELLOW-BRICK
ROAD...

NO, WE'LL REACH
THE OTHER TWO
PLANETS.

(STOP)

DEAN:

WE'RE NOW
FACING
SOUTH-
SOUTHEAST AT
10PM AND
FOLLOWING THE
ECLIPTIC FROM
RIGHT TO LEFT,
WE COME TO OUR
NEXT PLANET.
AND IT IS MY

FAVORITE!

JAMES:

THATS RIGHT

DEAN.

THIS

UNASSUMING,

YELLOW-LOOKING

STAR IS ACTUALLY

THE PLANET WITH

THE BIGGEST

RING-SYSTEM, 62
MOONS, AND
LOOKS JUST
AWESOME IN A
TELESCOPE.
THAT IS SATURN.

DEAN:
PLEASE, PLEASE,
PLEASE, GET TO
KNOW THIS

PLANET THIS
SUMMER.

JAMES:
AND TRY, TRY TRY
TO VIEW SATURN
THROUGH A
TELESCOPE THIS
SUMMER FOR A
VIEW LIKE THIS.
IT IS SO PERFECT

THAT IT LOOKS
FAKE.

DEAN:
BUT THATS THE
REAL THING!

(STOP)

JAMES:
OUR LAST STOP

ON OUR RAINBOW
OF PLANETS
TAKES US TO THE
ONE THAT IS
FARTHEST FROM
THE ECLIPTIC.

DEAN:
IT JUST HAS TO BE
DIFFICULT!

JAMES:
INDEED! AND
WARLIKE. AND
REDDISH.

DEAN:
IF THOSE CLUES
WERENT ENOUGH,
THAT MY FRIENDS
IS THE
PLANET MARS.

JAMES:
WOW, IT IS
REALLY BRIGHT.
ALMOST AS
BRIGHT
AS VENUS.

DEAN:
THAT'S RIGHT.
IT WAS AT ITS

CLOSEST
APPROACH TO
EARTH LAST
MONTH AND IS
STILL INCREDIBLY
BRIGHT.

(STOP) CLOSE-UP
ENDING

JAMES:

WHAT A LINE-UP.
FROM RIGHT TO
LEFT, YOU'LL SEE
VENUS, JUPITER,
SATURN,
AND MARS.

DEAN:
AND, WHEN YOU
PLANET-GAZE ON
THE NIGHTS OF

AUGUST 13
THROUGH 23
DON'T BE
SURPRISED TO
SEE THE WAXING
MOON NEAR ONE
PLANET OR
ANOTHER.

JAMES:
NOW, FINDING

THE PLANETS FOR
YOURSELF IS A
TREAT.

BUT ITS EVEN
BETTER IF YOU
SHARE THAT
KNOWLEDGE WITH
FRIENDS AND
FAMILY.

DEAN:

TAKE IT FROM US,
WHEN YOU SHOW
SOMEONE A
PLANET THEY
WILL THINK IT,
AND YOU ARE
REALLY COOL.
AND COOLNESS
AWAITS WHEN
YOU...

**BOTH:
KEEP LOOKING
UP!**
