

Exoplanet Explorer

Soprano, Alto, Tenor, Bass (Piano not shown)
In memory of Dan Weinreb

by David Haines Apr 2011- Sep 2012, commissioned by
Cambridge Science Festival, Massachusetts
based on a conversation with Sara Seager

Andante ♩ = 100

Sop

5 *p* Out there in space there's a pla - net like

5 *p* Out there there's a pla - net

5 *p* Out there in space there's a pla - net

5 *p* Out in space a pla -

Sop

9 Earth.... On a ga - lac - tic scale

Earth.... On a ga - lac - tic scale

8 pla - net like Earth.... On a ga - lac - tic scale

net pla - net like Earth.... ga - lac - tic scale

Sop

13

not so ve - ry far

not so not so ve - ry far

not so ve - ry far

not so ve - ry far

Sop

18

Wa - te - ry, roc - ky, not too big, nor too small, nor

Wa - te - ry, roc - ky, not too big, nor too small, nor

Wa - te - ry, roc - ky, not too big, nor too small, nor

Wa - te - ry, roc - ky, not too big, nor too small, nor

Sop

22

too far from nor too near to its star....

too far from too far

too far nor too near to its star.... too far

too far from nor too near to its star

Sop 26 *f*

Alto *f*

Ten *f*

Bass *f*

from nor too far from nor too near to its

star

Sop 31 *p* *mp*

Alto *p* *mp*

Ten *p* *mp*

Bass *p* *mp*

We are ex - plo - rers ex - plo - ring new

star We are ex - plo - rers ex - plo - ring, ex -

star, too near star We are ex - plo - rers ex - plo - ring new

We are ex - plo - rers ex - plo - ring new

Sop 36

Alto

Ten

Bass

worlds or - bi - ting stars far be -

plo - ring, ex - plo - ring new worlds stars be -

worlds ex - plo - ring new worlds stars far be -

worlds ex - plo - ring or - bi - ting stars far be -

Sop

40

mf

yond our own Soon we shall find a

yond our own, far be - yond our own we shall find a

yond our own, far be - yond our own we shall find a

yond our own Soon we shall find a

Sop

45

mf

pla - net like Earth But will it

pla - net like, pla - net like Earth But will it

8 pla - net like Earth a pla - net like But will it

pla - net like Earth, Earth, But will it

Sop

49

p

prove to be home to life?.....

prove to be home, home, home to life?..... to be

prove to be home, home to life?.....

prove to be home, home be home to

Sop 53 *f*

Alto *f*

Ten

Bass

home to life?..... to be home to life?..... to be

Life... to life home to

home to home to life, to be home to

Sop 57 *mp*

Alto *mp*

Ten *mp*

Bass *mp*

home to life, to life?

home to life, home to life?

life, home to life, life?

2

Sop 63 *pp*

Alto *pp*

Ten *mp*

Bass *pp*

How see points in the sky?

How see points in the sky? in the

How do we see these pin - points in the sky?

How see points in the sky?

Sop

67

mp

sky? sky? Far har - der than

Alto

mp

sky? in the sky? Far har - der than fin - ding a

Ten

mf

Far har - der than fin - ding a

Bass

mp

sky? sky? Far har - der than

Sop

72

p

fin - ding a nee - dle in hay, hid - den in hay

Alto

p

fin - ding a nee - dle in hay, hid - den in hay

Ten

mp

nee - dle hid - den in hay

Bass

p

fin - ding a nee - dle in hay, hid - den in hay

Sop

77

E - lec - tro - nic sen - ses di - gi - tal

E - lec - tro - nic sen - ses di - gi - tal

E - lec - tro - nic sen - ses and di - gi - tal in -

E - lec - tro - nic sen - ses di - gi - tal

Sop

80

in - tel - li - gence en hance far

in - tel - li - gence en hance to see far,

tel - li - gence en hance our chance to see far,

in - tel - li - gence en - hance chance

Sop

83

far way, far a -

far far a - way Far a -

far a - way far a - way, far a -

far, far a - way, far, far a -

Sop 88 *pp* *p*
 way... Ra - di - al
 Alto *pp* *p*
 way, far, far, far a - way Ra - di - al
 Ten *p* *mp*
 way, far a - way... Ra - di - al ve -
 Bass *pp* *p*
 way, far, far, a - way Ra - di - al

Sop 93
 ve - lo - ci - ty change in star's speed
 Alto
 ve - lo - ci - ty change in star's speed
 Ten
 lo - ci - ty spots change in star's speed in its
 Bass
 ve - lo - ci - ty change in star's speed

Sop 97
 In its dance with pla - - nets Dop - pler shift
 Alto
 In its dance with pla - - nets Dop - pler shift
 Ten
 dance with its pla - - nets Dop - pler shift we
 Bass
 In its dance with pla - - nets Dop - pler shift

Sop 100 *mf*

we see Tran - sit Tech - nique sees slight

Alto *mf*

we see Tran - sit tech - nique, slight

Ten *mf*

see Tran - sit tech - nique, slight

Bass *mf*

we see Tran - sit tech - nique, slight

Sop 104

chan - ges in light when

Alto

chan - ges in light, chan - ges light

Ten

chan - ges in light - - - slight - chan - ges in

Bass

chan - - ges - - in - light light

Sop 107

pla - nets pass star it be - comes a

Alto

pla - nets pass star it be - comes less

Ten

Pla - nets pass star it be - comes - - - a -

Bass

Pla - nets pass - star - be - - comes

Sop *p*
110
lit - tle less bright....

Alto *p*
bright When pla - nets pass star the

Ten *p*
lit - tle less bright

Bass *p*
lit - tle less bright, be - comes - - less -

Sop *f*
113
star - be - comes - - - less - bright, star be -

Alto *f*
star be comes star - be -

Ten *f*
Star be comes star - be -

Bass *f*
bright When pla - nets pass star - the -

Sop *p*
116
comes less bright, less bright

Alto *p*
comes less bright, less bright

Ten *p*
comes - - - less - bright -, less bright

Bass *p*
star - be - comes - - - less bright

Sop 123

mf

with di - rect i - ma - ging snap pla - nets a - round

with di - rect i - ma - ging snap pla - nets a - round - -

with di - rect i - ma - ging snap pla - nets a - round

with di - rect i - ma - ging snap pla - nets a - round stars

Sop

127

stars by bloc - king star - light so

stars, block ing star - light so

stars block - ing star - light,

By block - ing star - light, block - ing light

Sop

129

pla - nets are found Gra - vi -

pla - nets are found - Gra - vi - ta - tio - nal mi -

pla - nets are found, gra - vi - ta - tion - al mi - cro -

pla - nets are found

Sop

132

ta - tio nal mi - cro - len - sing,

cro - len - sing, as - tro - me -

len - sing, as - tro - me -

Gra - vi - ta - tion - al mic - ro - len - sing

Sop

134

as - tro - me - try

try, - as - tro - - met - ry

try, - as - tro - me - try -, as - - tro - me - try

as - - tro - - me - - try

Sop

137

Two more ways these e - xo -

Two more ways these e - xo -

Two more ways these e - xo -

Two more ways - these - e - - xo - -

Sop 139 *p*

pla - nets may be seen...

Alto *p*

pla - nets may be seen, two more

Ten *p*

pla - - - nets - may - be seen

Bass *p*

pla - nets may - be seen, two

Sop 142

ways these e - xo - pla -

Alto

Ten

Two more

Bass

more - ways - these - e - xo -

Sop 144 *f*

Alto *f*

nets - may - - be seen, e - xo -

Ten *f*

ways e - - xo -

Bass

pla - nets, these e - - xo - - pla - nets

Sop 146 *p*

Alto *p*

Ten *p*

Bass *p*

pla - nets may be seen

pla - - - nets may - be seen

may be seen, may - - - be seen

Sop 153 *pp*

Alto *pp*

Ten *pp*

Bass *pp*

Out there in space there's a pla - net like Earth..... On a ga -

Out there there's a pla - net Earth..... On a ga -

Out there in space there's a pla - net pla - net like Earth..... On a ga -

Out in space a pla - net pla - net like Earth..... ga -

Sop 159

Alto

Ten

Bass

lac - tic scale not so ve - ry far

lac - tic scale not so not so ve - ry far

lac - tic scale not so ve - ry far

lac - tic scale not so ve - ry far