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Siobhán Ward

Post Production Manager
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Meg O’Kelly

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Paul Shanahan

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Mark Lawless
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John Foster

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Dan Coplan S.O.C.

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Ciarán Fogarty

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Sabine Bubeck-Pääz

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Director of Operations
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Director of Production
Heather Forbes

Director of Communications
Anna Irwin

Art Director
Fabian de Kok-Mercado

Consulting Producers
David Elisco
Jared Lipworth

Senior Researcher
Laura Helft

Production Manager
Lorri Garcia-Cottrell

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Arjun Rao

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Mark Nielsen
Satoshi Amagai

Executive Coordinator
Wilma Davis

Executive in charge for PBS
Bill Gardner

Scientific Advisors
Reta Beebe
Arthur Lonne Lane
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**PETER MORAN & THE UCD SCHOOL OF MUSIC**

**NATIONAL RADIO ASTRONOMY OBSERVATORY**

**SCHOOL OF PHYSICS, TRINITY COLLEGE DUBLIN**

AND TO ANN DRUYAN, CREATIVE DIRECTOR, NASA’S VOYAGER INTERSTELLAR MESSAGE

AND ALL WHO HELPED US IN THE MAKING OF THIS FILM
MUSIC TRACKS

"ALIMA SONG"
FROM THE ALBUM MUSIC OF THE ITURI FOREST
COURTESY OF SMITHSONIAN FOLKWAYS RECORDINGS

J.S. BACH: "BRANDENBURG CONCERTO NO. 2 IN F MAJOR, BWV 1047"
PERFORMED BY ORCHESTRA MÜNCHENER BACH-ORCHESTER
CONDUCTOR: KARL RICHTER
(P) 1968 DEUTSCHE GRAMMOPHON GMBH, HAMBURG

"MELANCHOLY BLUES"
PERFORMED BY LOUIS ARMSTRONG AND HIS HOT SEVEN
WRITTEN & COMPOSED BY MARTY BLOOM AND WALTER MELROSE
COURTESY OF SONY MUSIC ENTERTAINMENT INC
PUBLISHED BY EMI MUSIC PUBLISHING © 1927

"LIUSHUI " BY GUAN PINGHU
FROM THE ALBUM CHINA
COURTESY OF SMITHSONIAN FOLKWAYS RECORDINGS.

"WISHING ON A STAR"
PERFORMED BY ROSE ROYCE
WORDS AND MUSIC BY BILLIE RAE CALVIN
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BEETHOVEN: SYMPHONY NO. 5 IN C MINOR, OP. 67: I. ALLEGRO CON Brio
PERFORMED BY OTTO KLEMPERER, THE PHILHARMONIA ORCHESTRA
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"TCHENHOUKOUMEN"
FROM THE ALBUM MUSIQUES DAHOMÉENNES OCR17
COURTESY OF OCORA RADIO FRANCE

"IZLEL JE DELYO HAGDUTIN"
PERFORMED BY VALYA BALKANSKA
KVZ MUSIC LTD. / BALKANTON / VALYA BALKANSKA

"RECORDE 4' CONSORT - THE FAIRIE ROUND"
PERFORMED BY DAVID MUNROW,
THE EARLY MUSIC CONSORT OF LONDON
LICENSED COURTESY OF WARNER MUSIC UK LTD
BY KIND PERMISSION OF GILLIAN MUNROW

"AZERBAIJAN S.S.R. - UGAM"
FROM THE ALBUM FOLK MUSIC OF THE U.S.S.R.
COURTESY OF SMITHSONIAN FOLKWAYS RECORDINGS

MOZART: "DIE ZAUBERFLÖTE – DER HÖLLE RACHE (QUEEN OF THE NIGHT'S ARIA)"
EDDA MOSER (SPORANO), BAYERISCHES STAATSORCHESTER
CONDUCTED BY WOLFGANG SAWALLISCH
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"TSURU NO SUGOMORI"
PERFORMED BY VARIOUS ARTISTS/EXPLORER SERIES
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"KETAWANG: PUSPAWARNA"
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UNDER LICENSE FROM SAREGAMA INDIA LIMITED
SINGER: SURSHRI KESARBAI KERKAR

"KARCZMARZE POGRANICZCE"
PERFORMED BY KARCZMARZE BAND

"BREAKAWAY"
WRITTEN AND PERFORMED BY GALLAGHER & LYLE
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"CALLING OCCUPANTS OF INTERPLANETARY CRAFT"
PERFORMED BY THE CARPENTERS
WORDS & MUSIC BY JOHN WOLOSCHUK & TERRY DRAPER
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