

for percussion

Dedicated to my sister, Anna Robilotta,
as she embarks on her thirty-seventh trip around the Sun.

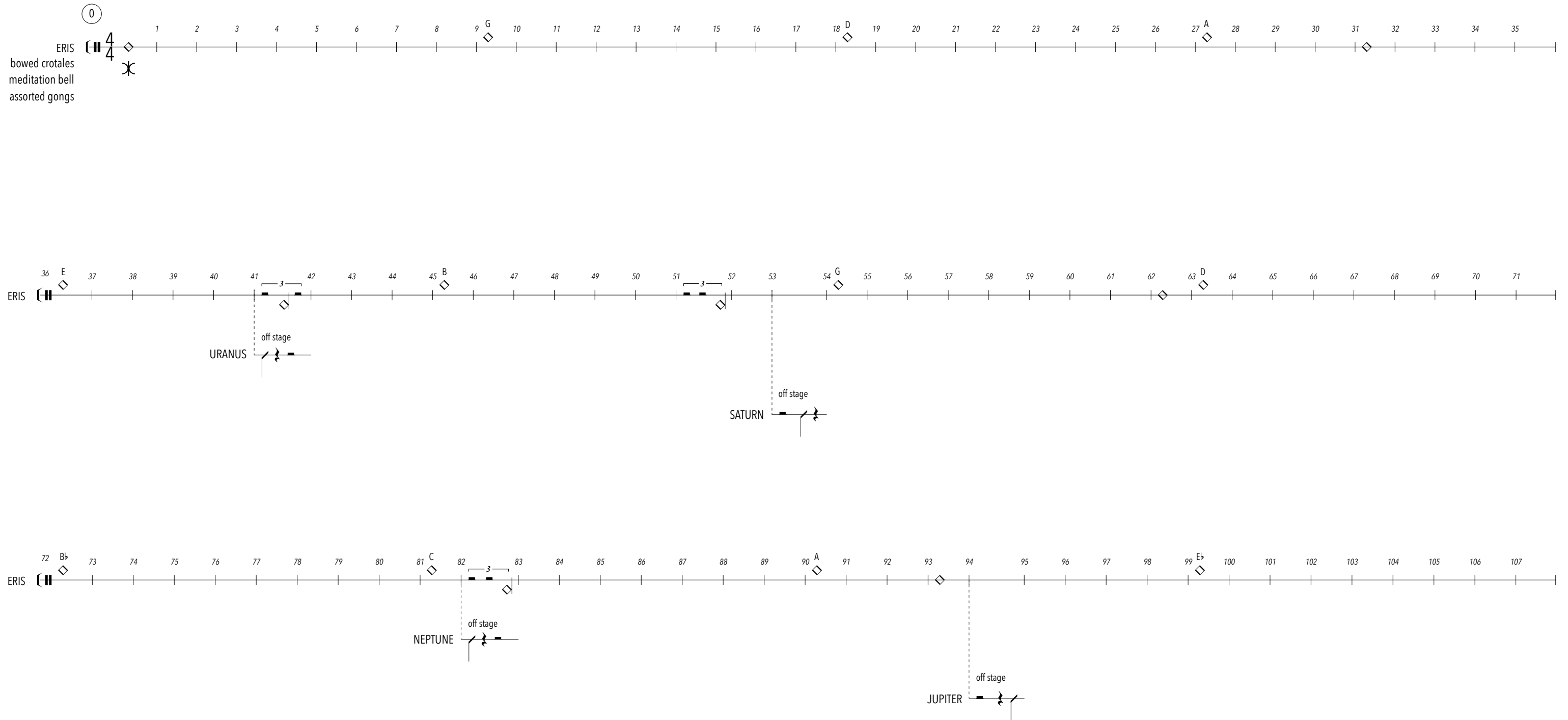
Alex T. Robilotta
2020-2023

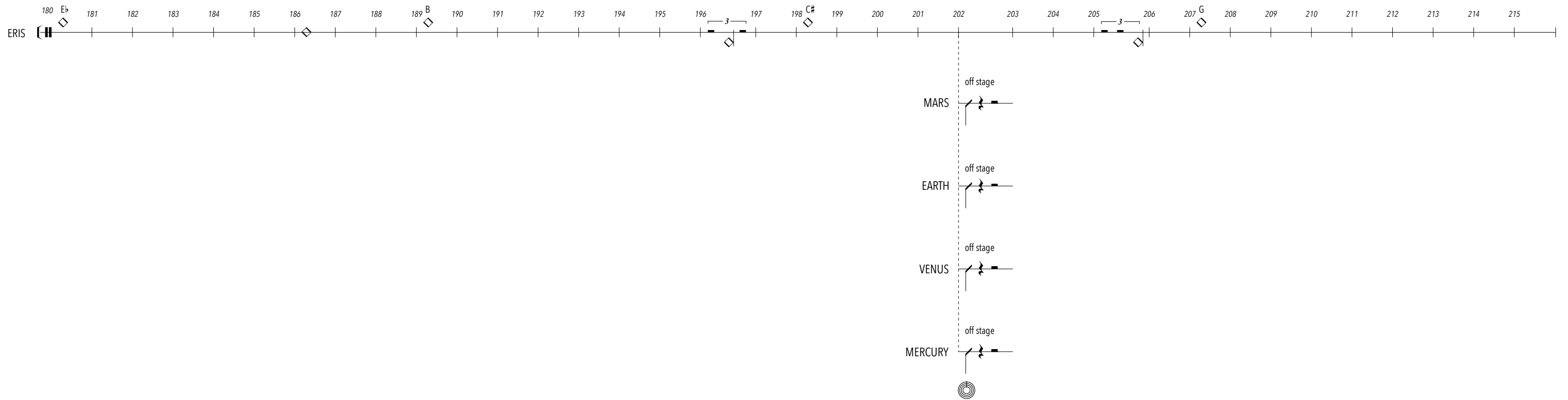
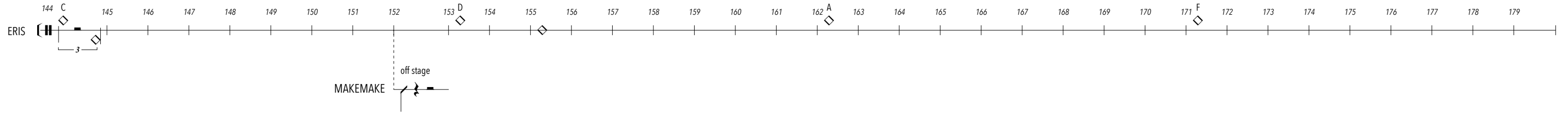
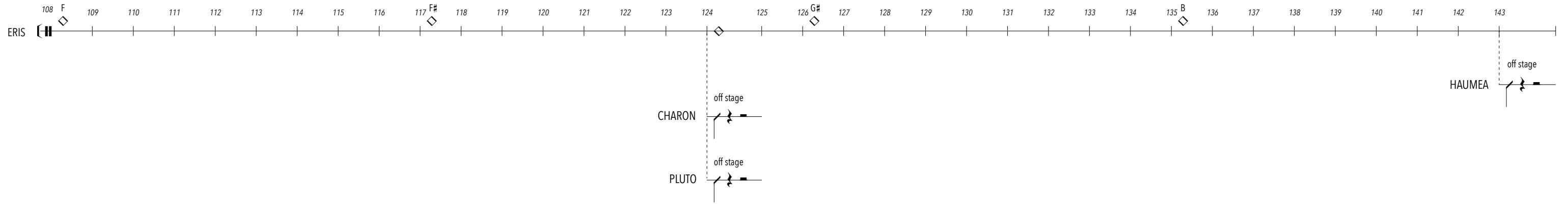
-ORBITS-

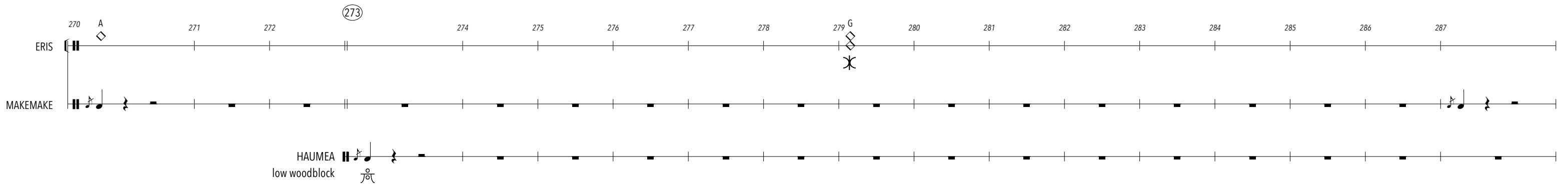
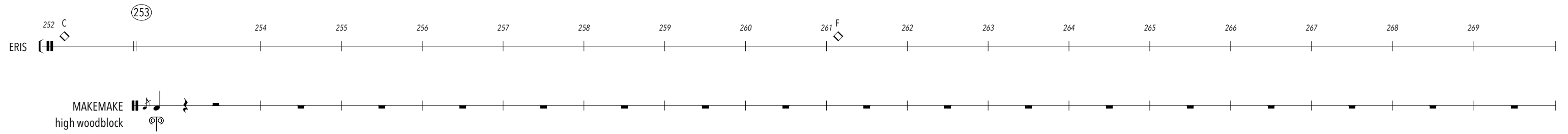
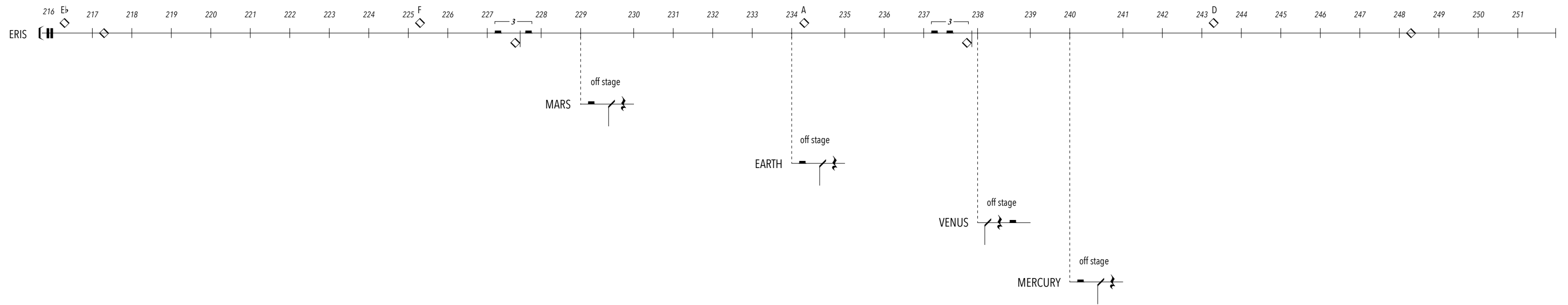
for percussion

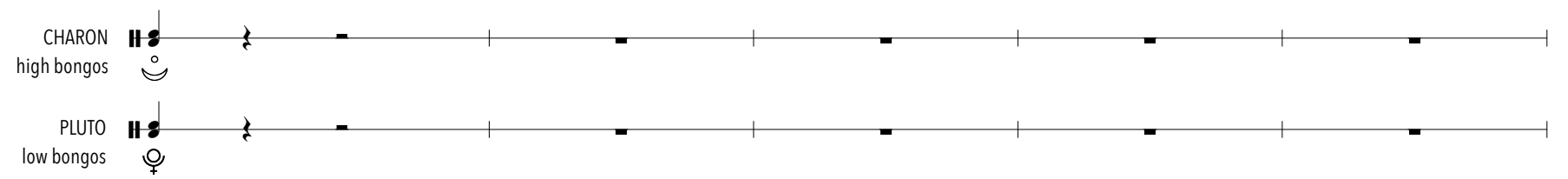
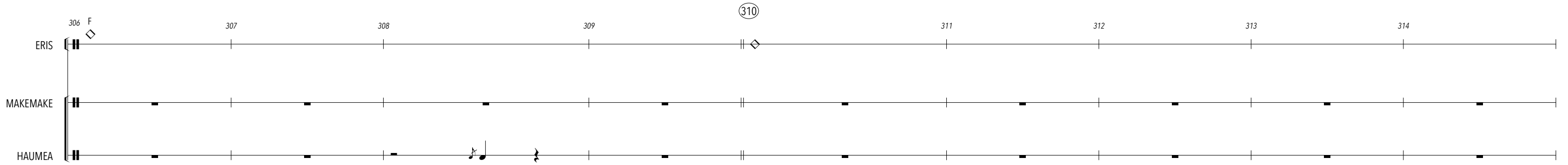
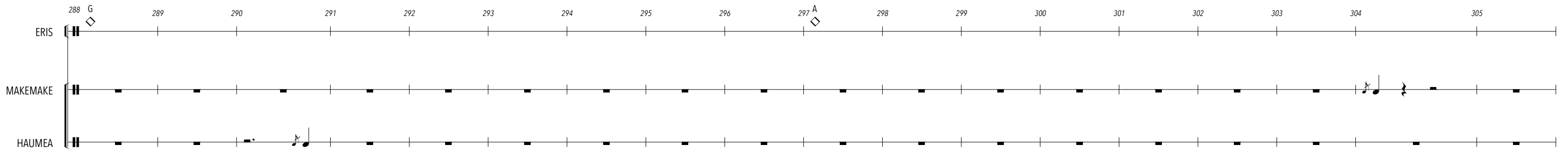
-A.T.Robilotta

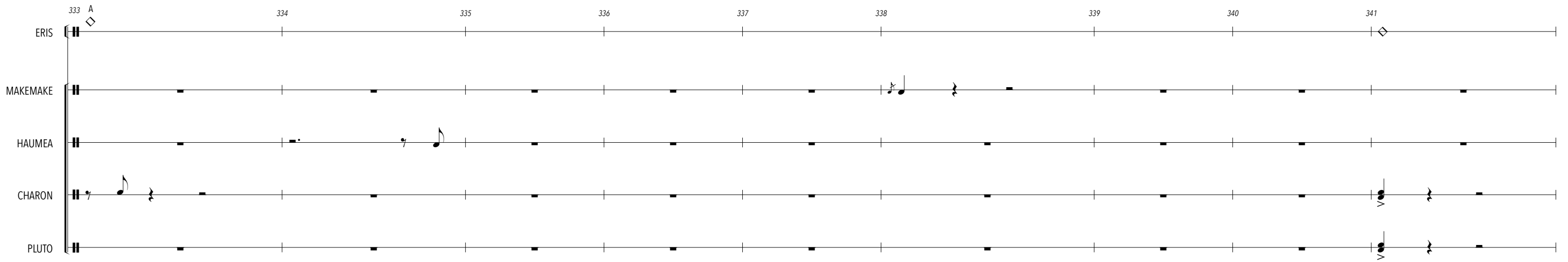
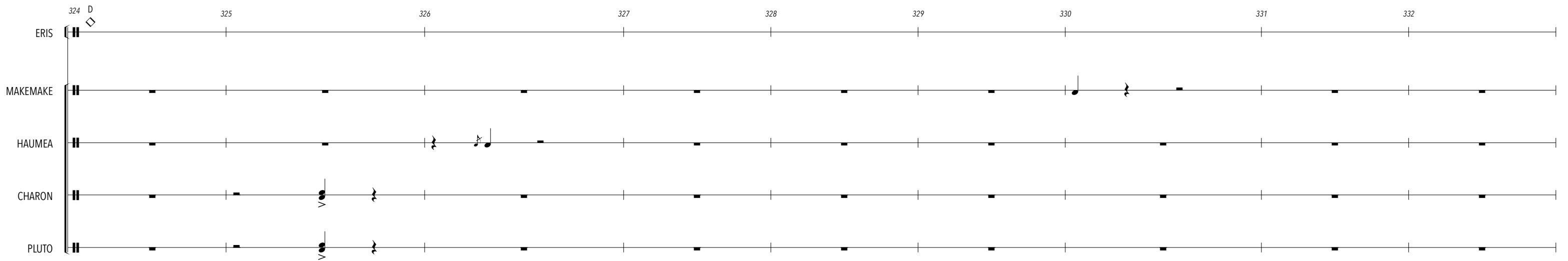
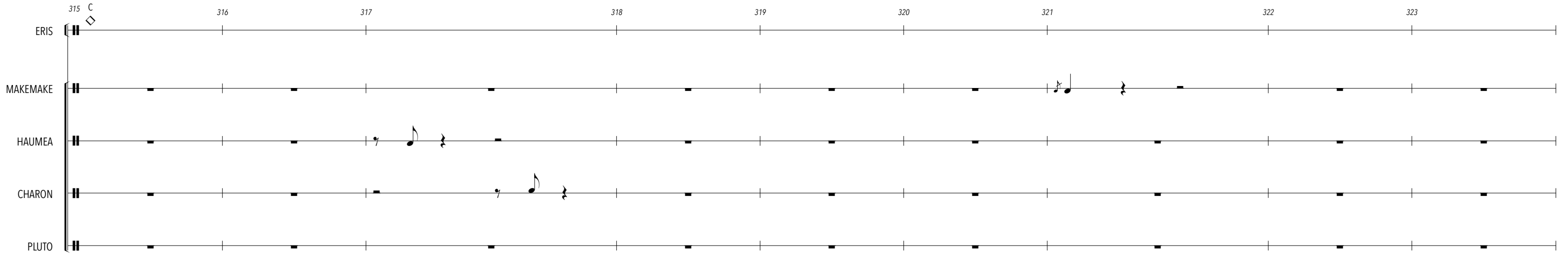
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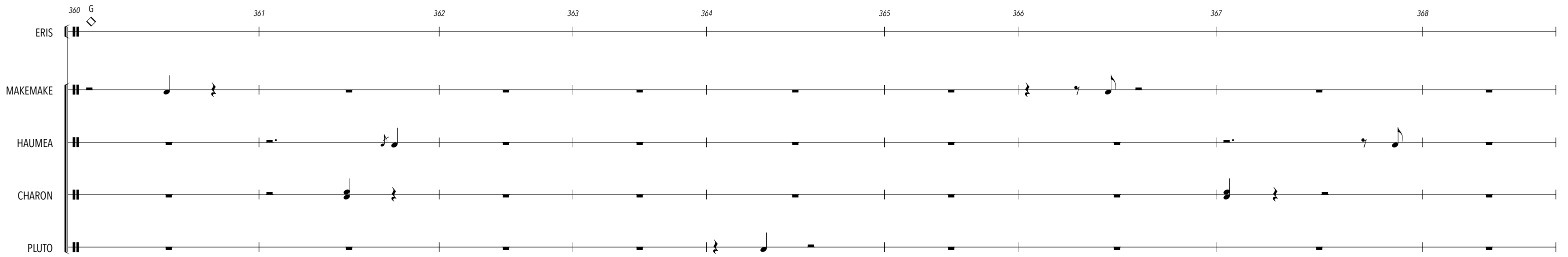
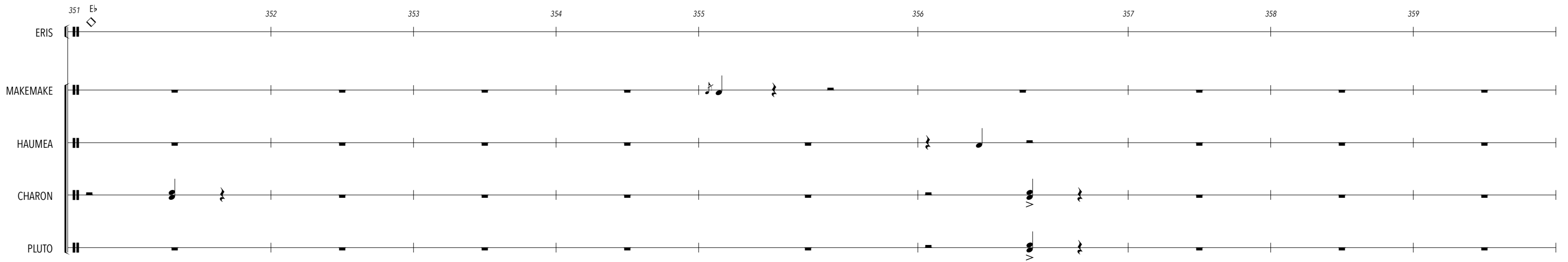
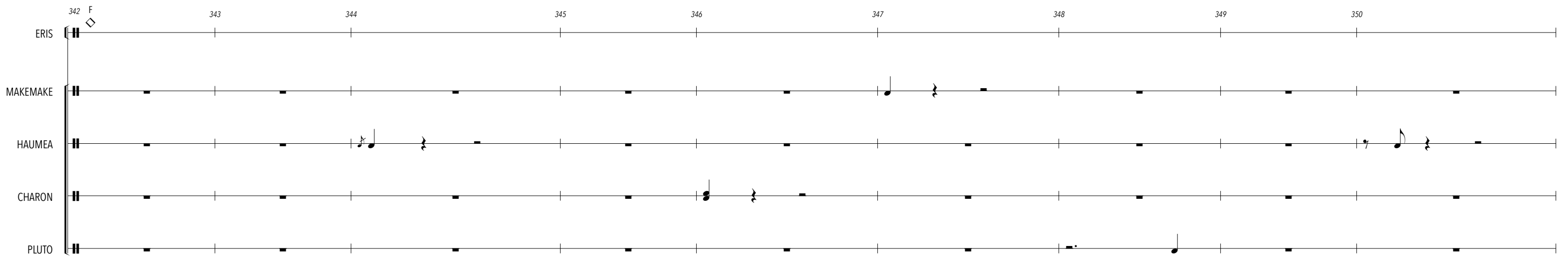


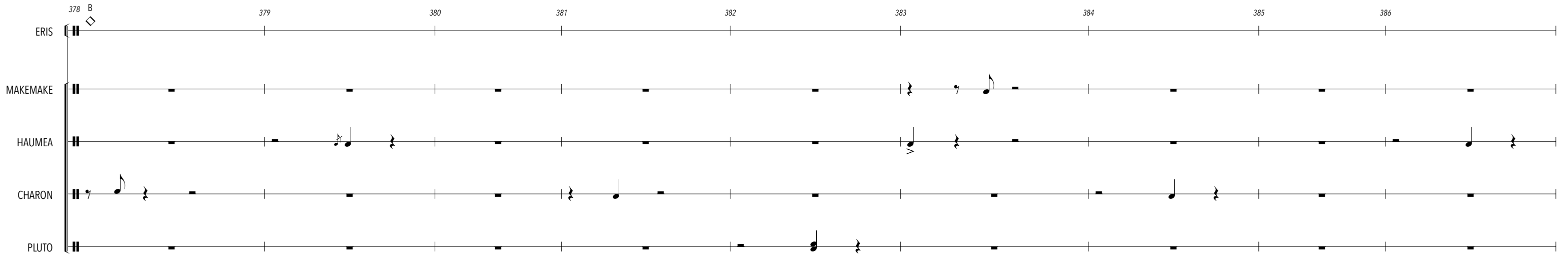
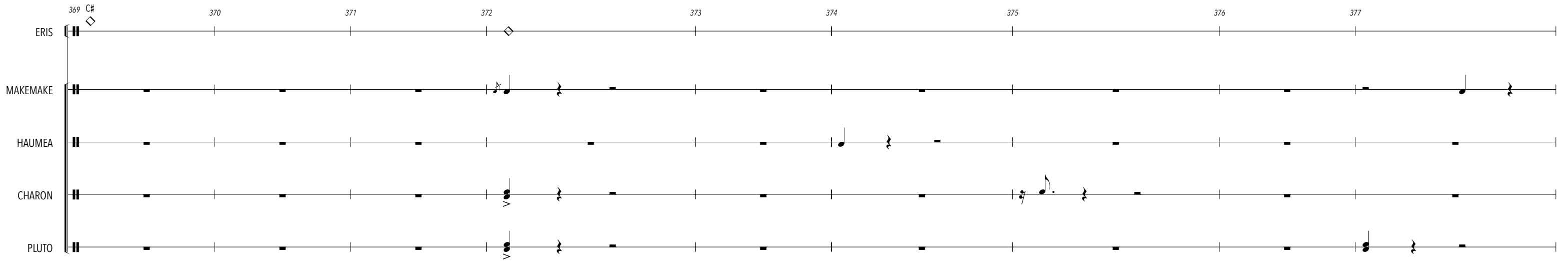












387 E♭ 388 389 390 391 392 393 394 395

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

low to mid toms

396 F 397 398 399 400 401 402 403 404

ERIS

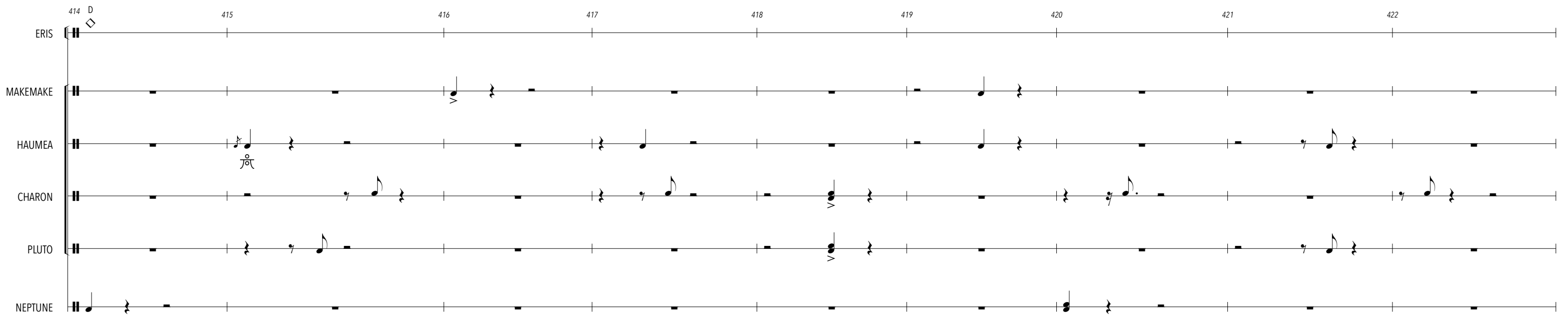
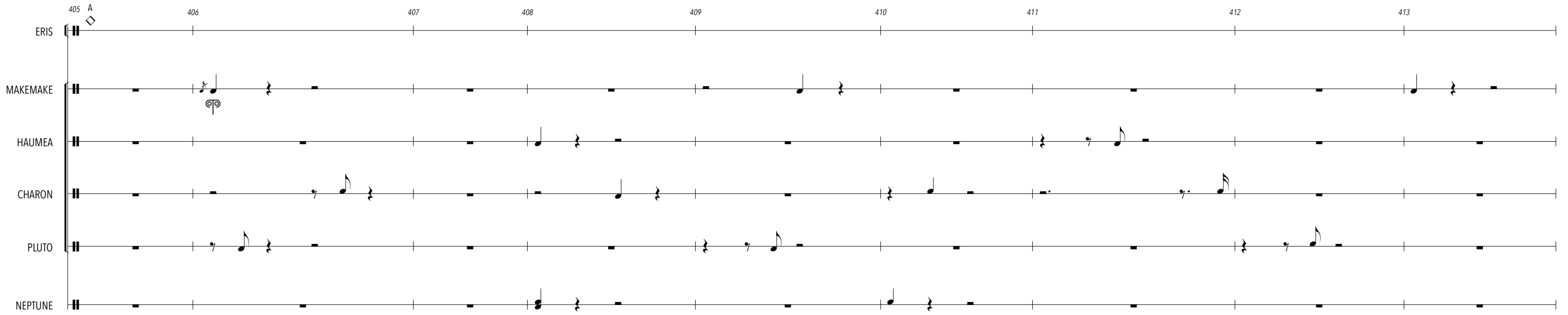
MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE



423 C 424 425 426 427 428 429 430 431

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

432 B 433 434 435 436 437 438 439 440

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

441 G# 442 443 444 445 446 447 448 449

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

450 F# 451 452 453 454 455 456 457 458

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

459 F 460 461 462 463 464 465 466 467

ERIS
MAKEMAKE
HAUMEA
CHARON
PLUTO
NEPTUNE

Detailed description: This system of musical notation covers measures 459 to 467. The key signature is F major, indicated by a diamond symbol above the first measure. The score is written for six instruments: ERIS, MAKEMAKE, HAUMEA, CHARON, PLUTO, and NEPTUNE. ERIS has a diamond symbol above measure 465. The notation includes various note values, rests, and articulation marks such as accents and slurs. NEPTUNE features two triplet markings over measures 462-463 and 464-465.

468 E♭ 469 470 471 472 473 474 475 476

ERIS
MAKEMAKE
HAUMEA
CHARON
PLUTO
NEPTUNE

Detailed description: This system of musical notation covers measures 468 to 476. The key signature changes to E-flat major, indicated by a diamond symbol with a flat above the first measure. The score continues for the same six instruments. ERIS has a diamond symbol above measure 468. The notation includes various note values, rests, and articulation marks. NEPTUNE features two triplet markings over measures 470-471 and 472-473. A trident symbol is placed below the staff for NEPTUNE at the end of measure 476.

477 A

ERIS

478

479

480

481

482

483

484

485

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

486 C

ERIS

487

488

489

490

491

492

493

494

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

495 B \flat 496 497 498 499 500 501 502 503

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

504 D 505 506 507 508 509 510 511 512

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

513 G

514

515

516

517

518

519

520

521

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

URANUS
floor tom or surdo

522 B

523

524

525

526

527

528

529

530

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

URANUS

531 E

ERIS

532 533 534 535 536 537 538 539

MAKEMAKE

HAU MEA

CHARON

PLUTO

NEPTUNE

URANUS

540 A

ERIS

541 542 543 544 545 546 547 548

MAKEMAKE

HAU MEA

CHARON

PLUTO

NEPTUNE

URANUS

549 D

550 551 552 553 554 555 556 557

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

URANUS

558 G

559 560 561 562 563 564 565 566

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

URANUS

567 G

ERIS

568 3 569 570 571 572 573 574 575

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

URANUS

576 F

ERIS

577 578 3 579 580 581 582 583 584

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

URANUS

585 A

586 587 588 589 590 591 592 593

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

URANUS

594 D

595 596 597 598 599 600 601 602

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

URANUS

603 C

604

605

606

607

608

609 3

610

611

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

URANUS

SATURN

2 or 3 congas

Δ

H T T

?

Musical score for the Orbits of the outer planets and dwarf planets. The score is written for six staves, each representing a celestial body: ERIS, MAKEMAKE, HAUMEA, CHARON, PLUTO, and NEPTUNE. The Uranus staff includes fingering numbers (H, T) and dynamic markings (Δ). The Saturn staff includes fingering numbers (H, T) and dynamic markings (Δ). The score is divided into measures 612 through 620. Measure 612 includes a key signature change to F major. The music features various rhythmic patterns, including eighth and sixteenth notes, rests, and triplets. Some notes are marked with accents (>) or breath marks (+). The ERIS staff shows a diamond symbol at the beginning and end of the section. The MAKEMAKE, HAUMEA, CHARON, and PLUTO staves feature various rhythmic patterns, including eighth and sixteenth notes, rests, and triplets. The NEPTUNE staff features eighth and sixteenth notes, rests, and triplets. The URANUS staff features eighth and sixteenth notes, rests, and triplets. The SATURN staff features eighth and sixteenth notes, rests, and triplets.

This musical score is arranged in a system with eight staves, each representing a celestial body. The staves are labeled on the left: Eris, Makemake, Haumea, Charon, Pluto, Neptune, Uranus, and Saturn. The top of the system is marked with measure numbers 621 through 629. Measure 621 includes a diamond-shaped symbol and the letter 'A'. The notation includes various rhythmic values, rests, and articulation marks such as accents (>), breath marks (+), and dynamic markings (< and Δ). Some notes are grouped with triplets (3). The Saturn staff features a sequence of notes with 'x' marks below them, and some notes are marked with 'H' or 'T' below them. The Eris staff has a diamond symbol in measure 621. The Makemake staff has a plus sign above a note in measure 621. The Charon staff has a triplet in measure 624. The Neptune staff has triplets in measures 627 and 628. The Uranus staff has triplets in measures 622, 623, 624, 625, and 626. The Saturn staff has dynamic markings in measures 622, 623, 624, 625, 627, 628, and 629.

630 B 631 632 633 634 635 636 637 638

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

URANUS

SATURN

T H T H T T T H T T H T

The musical score is arranged in eight staves, each representing a celestial body. The top staff, ERIS, has measure numbers 639 through 647 marked above it. The notation includes various rhythmic values, rests, and articulation marks. Specific features include:

- ERIS:** Measure 639 starts with a diamond-shaped symbol and a 'G' above it. Measure 640 has a triplet of eighth notes.
- MAKEMAKE:** Measure 640 has a triplet of eighth notes with '+' signs above them.
- HAUMEA:** Measure 640 has a '+' sign above the first note.
- CHARON:** Measure 640 has a '+' sign above the first note and a triplet of eighth notes.
- PLUTO:** Measure 640 has a '+' sign above the first note and a triplet of eighth notes.
- NEPTUNE:** Measure 640 has a ♃ symbol above the first note.
- URANUS:** Measure 640 has a ♅ symbol above the first note.
- SATURN:** Measure 640 has a ♄ symbol above the first note. The bottom of the staff has letters 'H', 'T', 'T', 'H', 'H', 'T' under the notes, and a ♄ symbol below the first measure. Dynamic markings like Δ and $<$ are used throughout.

648 C# 649 650 651 652 653 654 655 656

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

URANUS

SATURN

JUPITER
large djembe

Detailed description of the musical score: The score is for a piece titled '-ORBITS-' on page 25. It spans measures 648 to 656. The key signature is C major (C#). The instruments are Eris, Makemake, Haumea, Charon, Pluto, Neptune, Uranus, Saturn, and Jupiter (large djembe). Eris has a diamond-shaped symbol above it. Makemake, Haumea, and Charon have '+' symbols above their notes. Saturn has '<' and 'Δ' symbols above its notes, and 'H T' labels below. Jupiter has 'H T' labels below its notes. The score includes various rhythmic patterns, including triplets and accents.

657 Eb 658 659 660 661 3 662 663 664 665

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

URANUS

SATURN

JUPITER

666 B

667

668

669

670

671

672

673

674

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

URANUS

SATURN

JUPITER

4

H T T H H T

Detailed description: This is a musical score for the 'ORBITS' section, spanning measures 666 to 674. The score is written for nine instruments: Eris, Makemake, Haumea, Charon, Pluto, Neptune, Uranus, Saturn, and Jupiter. The notation includes various rhythmic patterns, including triplets and sixteenth-note runs. There are several accents (>) and dynamic markings (<). A diamond-shaped symbol is present above the Eris staff at measure 671. The Saturn staff features a sequence of notes with 'x' marks above them, and a sequence of notes with 'H T T H H T' below them. A '4' is written below the Jupiter staff at measure 671. The score is set in a key with two sharps (F# and C#) and a common time signature.

The musical score is titled "ORBITS" and spans measures 675 to 683. It features eight staves, each representing a celestial body: ERIS, MAKEMAKE, HAUMEA, CHARON, PLUTO, NEPTUNE, URANUS, and JUPITER. The notation includes various rhythmic patterns, slurs, and dynamic markings. Measure 675 is marked with a diamond symbol and the letter 'A'. Measure 682 features a moon symbol and a Venus symbol. Measure 683 includes a 5:4 ratio marking. The Jupiter staff contains a sequence of notes with 'x' marks and letters 'T' and 'H' underneath, possibly representing orbital data. The score concludes with a 4-measure rest symbol at the end of measure 683.

This musical score depicts the orbits of nine celestial bodies from measure 684 to 692. The staves are labeled as follows:

- ERIS:** Measure 684 starts with a diamond symbol and an 'F' above it. Measure 692 ends with a diamond symbol and a '3' above it.
- MAKEMAKE:** Features a triplet with an accent in measure 684 and another triplet with an accent in measure 692.
- HAU MEA:** Features a triplet with an accent in measure 684.
- CHARON:** Features a triplet with an accent in measure 684.
- PLUTO:** Features a triplet with an accent in measure 684.
- NEPTUNE:** Features triplets with accents in measures 685, 686, 687, 690, and 691.
- URANUS:** Features triplets with accents in measures 684, 685, 686, 687, 688, 689, 690, and 691.
- SATURN:** Features a sequence of eighth notes with accents and dynamic markings (Δ and <math><</math>). The notes are labeled with 'H' and 'T' below them.
- JUPITER:** Features a sequence of eighth notes with accents and dynamic markings (<math>>>/math> and <math>>>/math>).

Measures 685, 686, 687, 688, 689, and 690 are marked with vertical lines at the top of the score.

702 D 703 704 705 706 707 708 709 710

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

URANUS

SATURN

JUPITER

4

711 E \flat (712) 713 714 715 716 717 718 719

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

URANUS

SATURN

JUPITER

MARS → Begin asteroid belt sounds peaking at measure 739

EARTH → Begin asteroid belt sounds peaking at measure 739

VENUS → Begin asteroid belt sounds peaking at measure 739

MERCURY → Begin asteroid belt sounds peaking at measure 739

The musical score is titled "-ORBITS-" and is page 33 of a larger work. It features eight staves, each representing a celestial body: Eris, Makemake, Haumea, Charon, Pluto, Neptune, Uranus, Saturn, and Jupiter. The score is written in a common time signature (C) and includes various musical notations such as notes, rests, triplets, and dynamic markings. The measures are numbered from 720 to 728. The Eris staff begins with a key signature change to F# and a diamond-shaped symbol. The Saturn staff includes dynamic markings such as Δ and $<$, and contains a sequence of notes with 'x' marks below them. The Jupiter staff features a 4-measure rest at the end of the piece.

729 G# 730 731 732 733 3 734 735 736 737

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

URANUS

SATURN

JUPITER

738 A (739) 740 741 742 743 744 745 746

ERIS

MAKEMAKE

HAU MEA

CHARON

PLUTO

NEPTUNE

URANUS

SATURN

JUPITER

MARS Peak asteroid belt sounds fading to measure 766

EARTH Peak asteroid belt sounds fading to measure 766

VENUS Peak asteroid belt sounds fading to measure 766

MERCURY Peak asteroid belt sounds fading to measure 766

Detailed description: This musical score represents the orbits of various celestial bodies. The top section (measures 738-746) features staves for Eris, Makemake, Haumea, Charon, Pluto, Neptune, and Uranus. Eris has a diamond symbol at measure 738 and 744. Makemake, Haumea, and Neptune have triplet markings with '+' signs. Charon and Pluto have 5:4 ratio markings. Uranus has a triplet marking. The Saturn and Jupiter staves are highly rhythmic, with Saturn's notes marked with 'T' and 'H' and Jupiter's with 'x'. A 4/4 time signature is indicated below the Jupiter staff. The bottom section (measures 738-746) shows the orbits of Mars, Earth, Venus, and Mercury, with annotations indicating 'Peak asteroid belt sounds fading to measure 766' for each.

This musical score depicts the orbits of nine celestial bodies from measure 747 to 755. The staves are labeled as follows from top to bottom: Eris, Makemake, Haumea, Charon, Pluto, Neptune, Uranus, Saturn, and Jupiter. The score includes various musical notations such as notes, rests, and ornaments. Measure 747 features a diamond-shaped ornament on the Eris staff. Measure 749 includes a triplet of eighth notes on the Neptune staff. Measure 754 contains a triplet of eighth notes on the Pluto staff. The Saturn staff is characterized by a sequence of notes with 'T' and 'H' labels underneath, and a delta symbol (Δ) above certain notes. The Jupiter staff features a 4-measure rest in measure 748 and another in measure 754. The Eris staff has measure numbers 748, 749, 750, 751, 752, 753, 754, and 755 marked above it.

The musical score is titled '-ORBITS-' and is page 37 of a larger work. It features nine staves, each representing a celestial body: Eris, Makemake, Haumea, Charon, Pluto, Neptune, Uranus, Saturn, and Jupiter. The score is divided into measures numbered 756 through 764. Eris has a diamond-shaped symbol above measure 756 and another below measure 764. Makemake, Haumea, Charon, Pluto, and Neptune have various rhythmic patterns, including triplets and accents. Saturn and Jupiter have more complex rhythmic patterns with many notes, some marked with 'x' and 'T' or 'H' below them. Dynamic markings like '<' and '>' are used throughout. A '4' with a brace is under a note in Jupiter's staff at measure 760. A circled '3' is under a note in Neptune's staff at measure 763.

774 E 775 776 777 778 779 780 781 782

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

URANUS

SATURN

JUPITER

H T T

H T T H H T

T H T T

T T H T T

H H T T H T

4

783 C 784 785 3 786 787 788 789 790 791

ERIS

MAKEMAKE

HAU MEA

CHARON

PLUTO

NEPTUNE

URANUS

SATURN

JUPITER

MARS tubular bells

♂ ♂ ♂ etc.

792 793 794 795 796 797 798 799 800

ERIS

MAKEMAKE

HAU MEA

CHARON

PLUTO

NEPTUNE

URANUS

SATURN

JUPITER

MARS

EARTH marimba

VENUS vibraphone

MERCURY xylophone

801 E_b 802 803 804 805 806 807 808 809

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

URANUS

SATURN
T T H T T
T T H T
T H H T
H T T H H T
T H T T

JUPITER

MARS

EARTH

VENUS

MERCURY

810 B \flat 811 812 813 814 815 816 3 817 818

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

URANUS

SATURN

JUPITER

MARS

EARTH

VENUS

MERCURY

819 F 820 821 822 823 824 825 826 3 827

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

URANUS

SATURN
H T T

JUPITER
4

MARS

EARTH

VENUS

MERCURY

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828 C 829 830 831 832 833 834 835 836

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

URANUS

SATURN

JUPITER

MARS

EARTH

VENUS

MERCURY

Detailed description of the musical score: The score is a multi-stemmed musical composition. ERIS is the top staff, starting with a treble clef and a common time signature, marked with a 'C' and a diamond symbol. MAKEMAKE, HAUMEA, CHARON, and PLUTO are represented by single stems with square note heads. NEPTUNE and URANUS use stems with square note heads and include triplet markings. SATURN features stems with square note heads, dynamic markings like '<' and 'H T', and a triangle symbol. JUPITER uses stems with square note heads and includes a '4' marking. MARS is in a treble clef with a complex melodic line. EARTH is in a bass clef with a complex melodic line. VENUS is in a treble clef with a complex melodic line and triplet markings. MERCURY is in a treble clef with a complex melodic line. The score is divided into measures by vertical bar lines, with measure numbers 828 through 836 indicated at the top.

837 838 839 840 841 842 843 844 845

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

URANUS

SATURN

JUPITER

MARS

EARTH

VENUS

MERCURY

Musical score for the orbits of the planets Eris, Makemake, Haumea, Charon, Pluto, Neptune, Uranus, Saturn, Jupiter, Mars, Earth, Venus, and Mercury. The score is divided into measures 846 through 854. A circled measure number 854 is located at the top right. The score includes various musical notations such as triplets, slurs, and dynamic markings. A vertical dashed line is present at the end of measure 853, and a circled symbol is at the end of measure 854.

855 C 856 857 3 858 859 860 861 862 863

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

NEPTUNE

URANUS

SATURN

JUPITER

MARS

EARTH

VENUS

MERCURY

The musical score is titled '-ORBITS-' and is page 49 of a larger work. It features 14 staves, each representing a celestial body: ERIS, MAKEMAKE, HAUMEA, CHARON, PLUTO, NEPTUNE, URANUS, SATURN, JUPITER, MARS, EARTH, VENUS, and MERCURY. The score is written in a common time signature and includes various musical notations such as notes, rests, triplets, and dynamic markings. A key signature change to F major is indicated at the beginning of the ERIS staff. A circled measure number 869 is highlighted in the top staff. The score is a complex piece of music, likely a composition for a film or a theatrical production, given the celestial theme.

873 B \flat 874 875 876 877 878 3 879 880 881

ERIS

MAKEMAKE

HAU MEA

CHARON

PLUTO

NEPTUNE

URANUS

SATURN

JUPITER

MARS

EARTH

VENUS

MERCURY

882 883 884 885 886 887 888 889 890

ERIS

MAKEMAKE

HAU MEA

CHARON

PLUTO

NEPTUNE

URANUS

SATURN

JUPITER

MARS

EARTH

VENUS

MERCURY

891 G 892 893 894 895 896 897 898 899

ERIS

MAKEMAKE

HAUMEA

CHARON

PLUTO

SATURN

JUPITER

MARS

EARTH

VENUS

MERCURY

The musical score is arranged in ten staves, each representing a celestial body. ERIS, MAKEMAKE, HAUMEA, CHARON, and PLUTO are shown in percussion notation with various rhythmic patterns and accents. SATURN and JUPITER use a similar notation with 'x' marks and dynamic markings. MARS, EARTH, VENUS, and MERCURY are written in standard musical notation with treble and bass clefs, featuring complex rhythmic patterns, triplets, and dynamic markings. A vertical dashed line is present at measure 899, and a circled '899' is at the top right. A diamond symbol is at the top left, and a circled diamond is at the top right.

The musical score is titled '-ORBITS-' and is page 53 of a larger work. It features ten staves, each representing a celestial body: ERIS, MAKEMAKE, HAUMEA, CHARON, PLUTO, SATURN, JUPITER, MARS, EARTH, VENUS, and MERCURY. The score spans measures 900 to 908. ERIS is marked with a 'C' and a diamond symbol at measure 900. MAKEMAKE, HAUMEA, and CHARON have a '+' symbol above their first notes. SATURN, JUPITER, MARS, EARTH, VENUS, and MERCURY have various rhythmic and articulation markings, including accents, slurs, and dynamic markings like '<' and '>'. SATURN and JUPITER have 'H T' and 'T H' markings under their notes. MARS, EARTH, VENUS, and MERCURY feature complex rhythmic patterns with triplets and 5:4 time signatures. The ERIS staff is mostly empty, with only a few notes and rests. The other staves are filled with rhythmic notation, including eighth and sixteenth notes, rests, and various articulation marks.

The musical score is arranged in ten staves, each representing a celestial body. The measures are numbered from 909 to 917. The notation includes various rhythmic patterns and articulations:

- ERIS:** Features a triplet of eighth notes in measure 909, marked with a diamond symbol.
- MAKEMAKE:** Shows a single eighth note in measure 910.
- HAUMEA:** Features a single eighth note in measure 912.
- CHARON:** Shows a single eighth note in measure 910, marked with a plus sign.
- PLUTO:** Features a triplet of eighth notes in measure 909, marked with a plus sign.
- SATURN:** Contains a complex rhythmic pattern with slurs and dynamic markings (< and Δ) across measures 909-917. It includes letters H and T below the notes.
- JUPITER:** Features a complex rhythmic pattern with slurs and dynamic markings (> and <) across measures 909-917.
- MARS:** Features a melodic line with slurs and dynamic markings (> and p) across measures 909-917.
- EARTH:** Features a bass line with slurs and a triplet in measure 910.
- VENUS:** Features a melodic line with slurs and triplets across measures 909-917.
- MERCURY:** Features a melodic line with slurs and triplets across measures 909-917.

Measure 914 is circled in the top staff. The score concludes with a double bar line and repeat signs at the end of each staff.

918 D

ERIS

919 3

920

921

922

923

924

925

926

MAKEMAKE

HAU MEA

CHARON

PLUTO

927 F

ERIS

928

929

930

931

932

933

934

935

MAKEMAKE

HAU MEA

CHARON

PLUTO

936 B

ERIS

937

938

939

940 3

941

942

943

944

945 A

946

947

948

949

950 3

951

952

953

MAKEMAKE

HAU MEA

954 G# 955 956 957 958 959 960 961 962 963 F# 964 965 966 967 968 969 970 971 3

ERIS

MAKEMAKE

HAU MEA

972 Eb 973 974 975 976 977 978 979 980 981 D 982 (983) 984 985 986 987 988 989

ERIS

MAKEMAKE

HAU MEA

990 C 991 992 993 994 995 996 997 998 999 F 1000 1001 1002 3 1003 1004 1005 1006 1007

ERIS

MAKEMAKE

CHARON

PLUTO

1008 A 1009 1010 1011 1012 3 1013 1014 1015 1016 1017 B (1018) 1019 1020 1021 1022 1023 1024 1025

ERIS

MAKEMAKE

JUPITER

