

Dedicated to the Men and Women of the European Space Agency

Philae on 67P

for concert band

John Floyd Campbell, ASCAP

Instrumentation

Piccolo
Flutes
Oboes
Bassoons
Clarinets in Bb
Bass Clarinet
Alto Saxophones
Tenor Saxophones
Baritone Saxophones

Horns in F
Trumpets in Bb
Trombones
Bass Trombone
Baritones/Euphoniums
Tubas

Timpani
Tubular Bells
Xylophone
Perc. 1: snare drum, toms, high hat, ride cymbal, ride bell
Perc. 2: cowbells, claves, triangle
Perc. 3: bass drums, agogo, woodblocks, triangle

Duration: approx. 4 min, 40 sec.

On November 12, 2014, after a ten year journey, Philae, a robotic probe from the European Space Agency's Rosetta spacecraft, landed on Comet 67P/Churyumov-Gerasimenko, a first-ever soft landing on a comet. Unfortunately, Philae's two harpoons, designed to attach to the surface of the comet, did not fire, causing it to bounce across the surface before coming to rest in a dark crevice next to a cliff. Due to lack of sunlight to recharge its batteries, Philae was last heard from on November 15, 2014 but not before sending back much valuable data.

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The musical score is arranged in a standard concert band format. It begins with a tempo marking of $\text{♩} = 104$ and a dynamic marking of *f*. The score includes parts for the following instruments:

- Piccolo
- Flutes (1 and 2)
- Oboes (1 and 2)
- Bassoons (1 and 2)
- Bb Clarinets (1 and 2/3)
- Bb Bass Clarinet
- Eb Alto Saxophones (1 and 2)
- Bb Tenor Saxophones
- Eb Baritone Saxophones
- Bb Trumpets (1, 2, and 3)
- F Horns (1, 2, 3, and 4)
- Trombones (1, 2, and Bass 3)
- Baritone/Euphonium
- Tubas
- Timpani
- Mallet Percussion (vibraphone)
- Tubular Bells
- Percussion 1 (snare drum, toms, high hat, ride cymbal, ride bell)
- Percussion 2 (cowbell, claves, triangle)
- Percussion 3 (bass drum, agogo)

The score features various musical notations including triplets, accents, and dynamic markings such as *f* and *a2*. The percussion parts include specific instructions like "ride bell", "ride cymbal", "cowbell", "bass drum", and "high and low agogo".

This page of the musical score for "Philae on 67P" features a variety of instruments. The woodwind section includes Piccolo, Flute 2, Oboe 2, Bassoon 2, Clarinet 1, Clarinet 2, Bass Clarinet, Alto Saxophone 2, Tenor Saxophone, and Baritone Saxophone. The brass section consists of B-flat Trumpets, Horns (F), Trombones (E-flat), Basses, Baritone/Euphonium, and Tubas. The percussion section includes Timpani, Mallet Percussion, and three sets of Percussion (Perc. 1, 2, and 3). The score is written in a key signature of three flats and a 6/8 time signature. It contains numerous musical notations such as triplets, slurs, accents, and dynamic markings like *f* and *mf*. The page number "3" is located in the top right corner.

Philae on 67P

This page of the musical score, titled "Philae on 67P", is page 4. It features a complex orchestration with the following parts and staves:

- Picc.** (Piccolo): 1 staff
- Fls.** (Flutes): 2 staves
- Obs.** (Oboes): 2 staves
- Bsns.** (Bassoons): 2 staves
- Cls.** (Clarinets): 1 and 2 staves
- Bb Bass Cl.** (Bass Clarinet): 1 staff
- A. Saxek** (Alto Saxophone): 2 staves
- T. Saxes** (Tenor Saxophones): 1 staff
- B. Saxes** (Baritone Saxophones): 1 staff
- Bb Trpts.** (Bass Trumpets): 1 staff
- Hns.** (Horns): 1 and 3 staves
- Tpts.** (Trumpets): 2 and 4 staves
- (Bass)** (Bass Trombones): 1 and 2 staves
- Bar./Euph.** (Baritone/Euphonium): 1 staff
- Tubas**: 1 staff
- Timp.** (Timpani): 1 staff
- Mlt. Perc.** (Multiple Percussion): 1 staff
- T. Bells** (Tubular Bells): 1 staff
- Perc. 1, 2, 3** (Percussion 1, 2, 3): 3 staves

The score is written in a key signature of three flats (B-flat major or D-flat minor) and a 4/4 time signature. It includes various musical notations such as dynamics (e.g., *mf*, *f*), articulation (accents, staccato), and performance instructions (e.g., *tr* for trills, *tr* for trills, *tr* for trills). The percussion parts are particularly detailed, showing complex rhythmic patterns.