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Sonar

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# Sonar

Zacharias S. Falkenberg (2017)



# Sonar

written for Calefax 2017

## Instrumentation

Oboe  
Clarinet in B $\flat$   
Alto Saxophone  
Bass Clarinet  
Bassoon

This composition is inspired by the sound of an sonar system, as in a submarine. An impuls is being send and an echo will answer back. Depending on located objects the echo will answer regular or irregular. Moving back from an object will lead to a delayed slower echo and moving towards it will affect that the echo answers faster. Every impuls will decay, meaning the singal will get softer in volume. When impulses overlay the sounding result are similar to a tape delay effect, that has been heard during the psychedelic era of the late 60s.

Accents:      $\wedge$  accents are played with full accentuation,  $>$  accents are played with middle emphasis



accents on a motiv are always played that they can be heard loudest within the given dynamics



the fortepiano is valid for a whole motiv

Accidentals are valid only within a bar and octave.

Unfortunately there won't enough time for the players to turn over pages at the end of each page within their part, therefor it is advised to use two notestands for each player.



# Sonar

Andante ca. ♩=80  
Firm & Striking

Zacharias S. Falkenberg  
(2017)

Musical score for measures 1-4, featuring five woodwind parts: Oboe, Clarinet in Bb, Alto Saxophone, Bass Clarinet, and Bassoon. The score is in 4/4 time and includes dynamic markings such as *mf*, *p*, and *pp*. The Oboe part begins with a half note followed by a whole note, with dynamics *mf*, *p*, and *pp* indicated. The Clarinet in Bb, Alto Saxophone, Bass Clarinet, and Bassoon parts feature more complex rhythmic patterns with slurs and dynamic markings.

Musical score for measures 5-8, featuring five woodwind parts: Oboe (Ob.), Clarinet (Cl.), Alto Saxophone (Alto Sax.), Bass Clarinet (B. Cl.), and Bassoon (Bsn.). The score includes a measure rest in measure 6 and a key signature change to C major in measure 8. Dynamic markings include *mf*, *p*, and *pp*. The Oboe part has a measure rest in measure 6 and resumes in measure 8. The other parts continue with their melodic lines, with some changes in dynamics and phrasing.

10

Ob. *p* — *pp* *mf* — *pp* *mf*

Cl. *pp* *mf* — *pp* *mf*

Alto Sax. *pp* *mf* — *pp* *mf*

B. Cl. *p* — *pp* *mf* *pp* *mf* — *pp* *mf*

Bsn. *pp* *mf* *pp* *mf* — *pp* *mf*

14

Ob. *p* — *pp* *mf* — *p* — *pp*

Cl. *p* — *pp* *mf* — *p* — *pp*

Alto Sax. *p* — *pp* *mf* — *p* — *pp*

B. Cl. *p* — *pp* *mf* — *p* — *pp*

Bsn. *p* — *pp* *mf* — *p* — *pp*

18

Ob. *mf* *p* *pp*

Cl. *mf* *p* *pp*

Alto Sax. *mf* *p* *pp*

B. Cl. *mf* *p* *pp*

Bsn. *mf* *p* *pp*

20

Ob. *mf* *p* *pp* *mf* *pp* *mf* *pp*

Cl. *mf* *p* *pp* *mf* *pp* *mf* *pp*

Alto Sax. *mf* *p* *pp* *mf* *pp* *mf* *pp*

B. Cl. *mf* *p* *pp* *mf* *pp* *mf* *p* *pp*

Bsn. *mf* *p* *pp* *mf* *pp* *mf* *p* *pp*

23

Ob. *f* *pp* *f* *pp* *f* *pp* *f*

Cl. *f* *pp* *f* *pp* *f* *pp*

Alto Sax. *f* *pp* *f* *pp* *f* *pp* *f* *pp* *fp*

B. Cl. *f* *pp* *f* *pp* *f* *pp* *fp*

Bsn. *f* *pp* *f* *pp* *f* *pp* *f*

27

Ob. *f* *pp* *f* *pp*

Cl. *f* *pp* *f* *pp*

Alto Sax. *f* *pp* *f* *pp*

B. Cl. *f* *pp* *f* *pp*

Bsn. *f* *pp* *f* *pp*

30

Ob. *f* *pp* *f*

Cl. *f* *pp* *f*

Alto Sax. *f* *pp* *f* *f*

B. Cl. *f*

Bsn. *f* *pp* *f*

32

Ob. *pp*

Cl. *pp*

Alto Sax. *pp*

B. Cl. *pp*

Bsn. *pp*

34

Ob. *p* *mf* *p*

Cl. *p* *mf*

Alto Sax. *mf*

B. Cl. *p* *mf*

Bsn. *p* *mf*

36

Ob. *f* *p* *f* *p* *f*

Cl. *f* *p* *f* *p* *f*

Alto Sax. *f* *p* *f*

B. Cl. *f* *p*

Bsn. *f* *p* *f*

39

Ob. *pp*

Cl. *pp*

Alto Sax. *pp*

B. Cl. *f* *pp*

Bsn. *pp*

41

Ob. *mf* *pp* *f* *pp*

Cl. *mf* *pp* *f*

Alto Sax. *mf* *pp* *f*

B. Cl.

Bsn. *mf* *pp*

44

Ob. *f* *pp*

Cl. *pp*

Alto Sax. *pp* *f* *pp*

B. Cl.

Bsn.

47

Ob. *pp* *fp* *mf*

Cl. *pp* *fp* *mf* *pp*

Alto Sax. *pp*

B. Cl. *pp* *fp*

Bsn. *mf*

49

Ob. *pp* *fp* *mf* *pp*

Cl. *fp* *fp* *mf* *pp*

Alto Sax. *mf* *pp* *fp* *fp* *mf*

B. Cl. *mf* *pp* *fp*

Bsn. *pp*

5/16 5/16 5/16 5/16 5/16

51 poco accel.

Ob. *ff*

Cl. *ff*

Alto Sax. *pp* *ff*

B. Cl. *mf* *pp* *ff*

Bsn. *ff*

5/16 8/8 7/16 3/4 3/4 3/4 3/4

Allegro ca. ♩=200

55

Ob. *f*

Cl. *f*

Alto Sax. *f*

B. Cl. *f*

Bsn. *f*

Detailed description: This system contains measures 55 and 56. The music is in 3/4 time with a key signature of one flat. The woodwind parts (Ob., Cl., Alto Sax., B. Cl., Bsn.) all play a rhythmic pattern of eighth notes. The first measure (55) features a triplet of eighth notes in the Alto Saxophone part. The second measure (56) features a triplet of eighth notes in the Alto Saxophone part and a triplet of eighth notes in the Bassoon part. The dynamic marking *f* (forte) is present at the beginning of each staff.

57

Ob. *p* *f*

Cl. *p* *f*

Alto Sax. *p* *f*

B. Cl. *p* *f*

Bsn. *p* *f*

Detailed description: This system contains measures 57 and 58. The music is in 7/8 time with a key signature of one flat. The woodwind parts (Ob., Cl., Alto Sax., B. Cl., Bsn.) all play a rhythmic pattern of eighth notes. The first measure (57) features a triplet of eighth notes in the Alto Saxophone part. The second measure (58) features a triplet of eighth notes in the Alto Saxophone part and a triplet of eighth notes in the Bassoon part. The dynamic marking *p* (piano) is present at the beginning of each staff in measure 57, and *f* (forte) is present at the beginning of each staff in measure 58.

59

Ob. *mf* *p*

Cl. *mf* *p*

Alto Sax. *mf* *p*

B. Cl. *mf* *p*

Bsn. *mf* *p*

62

Ob. *f* *p* *f*

Cl. *f* *p* *f*

Alto Sax. *f* *p* *f*

B. Cl. *f* *p* *f*

Bsn. *f* *p* *f*

64

Ob. *mf* *p* *f* *p*

Cl. *mf* *p* *f* *p*

Alto Sax. *mf* *p* *f* *p*

B. Cl. *mf* *p* *f* *p*

Bsn. *mf* *p* *f* *p*

66

Ob. *f* *mf* *p* *p*

Cl. *f* *mf* *p* *p*

Alto Sax. *f* *mf* *p* *p*

B. Cl. *f* *mf* *p* *p*

Bsn. *f* *mf* *p* *p*

70

Ob. *f* *mf*

Cl. *f* *mf*

Alto Sax. *f* *mf*

B. Cl. *f* *mf*

Bsn. *f* *mf*

72

Ob. *p* *f*

Cl. *p* *f*

Alto Sax. *p* *f*

B. Cl. *p* *f*

Bsn. *p* *f*

74

Ob. *mf*

Cl. *mf*

Alto Sax. *mf*

B. Cl. *mf*

Bsn. *mf*

77

Ob. *p* *f* *p*

Cl. *p* *f* *p*

Alto Sax. *p* *f* *p* 3

B. Cl. *p* *f* *p* 3

Bsn. *p* *f* *p*

80

Ob. *f* *p*

Cl. *f* *p*

Alto Sax. *f* *p*

B. Cl. *f* *p*

Bsn. *f* *p*

82

Ob. *f*  $\frac{9}{16}$   $\frac{4}{4}$

Cl. *f*  $\frac{9}{16}$   $\frac{4}{4}$

Alto Sax. *f*  $\frac{9}{16}$   $\frac{4}{4}$

B. Cl. *f*  $\frac{9}{16}$   $\frac{4}{4}$

Bsn. *f*  $\frac{9}{16}$   $\frac{4}{4}$

84

Ob. *p* *f*

Cl. *p* *f*

Alto Sax. *p* *f*

B. Cl. *p* *f*

Bsn. *p* *f*

86

Ob. *p*

Cl. *p*

Alto Sax. *p*

B. Cl. *p*

Bsn. *p*

89

Ob. *f* *mf*

Cl. *f* *mf*

Alto Sax. *f* *mf*

B. Cl. *f* *mf*

Bsn. *f* *mf*

91

Ob. *p*

Cl. *p*

Alto Sax. *p*

B. Cl. *p*

Bsn. *p*

93

Ob. *f*

Cl. *f*

Alto Sax. *f*

B. Cl. *f*

Bsn. *f*

95

Ob. *mf*

Cl. *mf*

Alto Sax. *mf*

B. Cl. *mf*

Bsn. *mf*

98

Ob. *p* 5:6 5:6

Cl. *p* 5:6 5:6

Alto Sax. *p* 3 3

B. Cl. *p* 3 3

Bsn. *p* 3 3

100

Ob. *f* *p*

Cl. *f* *p*

Alto Sax. *f* *p*

B. Cl. *f* *p*

Bsn. *f* *p*

102

Ob. *f* *mf*

Cl. *f* *mf*

Alto Sax. *f* *mf*

B. Cl. *f* *mf*

Bsn. *f* *mf*

104

Ob. *p* *f*

Cl. *p* *f*

Alto Sax. *p* *f*

B. Cl. *p* *f*

Bsn. *p* *f*

106

Ob. *p* *f*

Cl. *p* *f*

Alto Sax. *p* *f*

B. Cl. *p* *f*

Bsn. *p* *f*

109

Ob. *mf* *p*

Cl. *mf* *p*

Alto Sax. *mf* *p*

B. Cl. *mf* *p*

Bsn. *mf* *p*

111

Ob.  $\frac{4}{4}$   $f$   $p$   $\frac{11}{16}$   $f$   $p$   $\frac{3}{4}$

Cl.  $\frac{4}{4}$   $f$   $p$   $\frac{11}{16}$   $f$   $p$   $\frac{3}{4}$

Alto Sax.  $\frac{4}{4}$   $f$   $p$   $\frac{11}{16}$   $f$   $p$   $\frac{3}{4}$

B. Cl.  $\frac{4}{4}$   $f$   $p$   $\frac{11}{16}$   $f$   $p$   $\frac{3}{4}$

Bsn.  $\frac{4}{4}$   $f$   $p$   $\frac{11}{16}$   $f$   $p$   $\frac{3}{4}$

113

Ob.  $\frac{3}{4}$   $f$   $\frac{9}{16}$   $\frac{4}{4}$

Cl.  $\frac{3}{4}$   $f$   $\frac{9}{16}$   $\frac{4}{4}$

Alto Sax.  $\frac{3}{4}$   $f$   $\frac{9}{16}$   $\frac{4}{4}$

B. Cl.  $\frac{3}{4}$   $f$   $\frac{9}{16}$   $\frac{4}{4}$

Bsn.  $\frac{3}{4}$   $f$   $\frac{9}{16}$   $\frac{4}{4}$

115

Ob. *p* *f*

Cl. *p* *f*

Alto Sax. *p* *f*

B. Cl. *p* *f*

Bsn. *p* *f*

117

Ob. *mf* *p*

Cl. *mf* *p*

Alto Sax. *mf* *p*

B. Cl. *p*

Bsn. *mf* *p*

119

Ob.  $\frac{3}{4}$   $f$   $p$   $f$   $\frac{9}{16}$

Cl.  $\frac{3}{4}$   $f$   $p$   $f$   $\frac{9}{16}$

Alto Sax.  $\frac{3}{4}$   $f$   $p$   $f$   $\frac{9}{16}$

B. Cl.  $\frac{3}{4}$   $f$   $p$   $f$   $\frac{9}{16}$

Bsn.  $\frac{3}{4}$   $f$   $p$   $f$   $\frac{9}{16}$

121

Ob.  $\frac{9}{16}$   $p$   $\frac{2}{4}$   $f$   $\frac{9}{16}$   $mf$   $\frac{2}{4}$

Cl.  $\frac{9}{16}$   $p$   $\frac{2}{4}$   $f$   $\frac{9}{16}$   $mf$   $\frac{2}{4}$

Alto Sax.  $\frac{9}{16}$   $p$   $\frac{2}{4}$   $f$   $\frac{9}{16}$   $mf$   $\frac{2}{4}$

B. Cl.  $\frac{9}{16}$   $p$   $f$   $\frac{9}{16}$   $mf$   $\frac{2}{4}$

Bsn.  $\frac{9}{16}$   $p$   $f$   $\frac{9}{16}$   $mf$   $\frac{2}{4}$

124

Ob. *p* *f*

Cl. *p* *f*

Alto Sax. *p* *f*

B. Cl. *p* *f*

Bsn. *p* *f*

126

Ob. *p* *f*

Cl. *p* *f*

Alto Sax. *p* *f*

B. Cl. *p* *f*

Bsn. *p* *f*

128

Ob.  $\frac{9}{16}$   $\frac{7}{8}$  *p* *f*

Cl.  $\frac{9}{16}$   $\frac{7}{8}$  *p* *f*

Alto Sax.  $\frac{9}{16}$   $\frac{7}{8}$  *p* *f*

B. Cl.  $\frac{9}{16}$   $\frac{7}{8}$  *p* *f*

Bsn.  $\frac{9}{16}$   $\frac{7}{8}$  *p* *f*

130

Ob.  $\frac{9}{16}$   $\frac{2}{4}$   $\frac{4}{4}$  *p* *f* *p*

Cl.  $\frac{9}{16}$   $\frac{2}{4}$   $\frac{4}{4}$  *p* *f* *p*

Alto Sax.  $\frac{9}{16}$   $\frac{2}{4}$   $\frac{4}{4}$  *p* *f* *p*

B. Cl.  $\frac{9}{16}$   $\frac{2}{4}$   $\frac{4}{4}$  *p* *f* *p*

Bsn.  $\frac{9}{16}$   $\frac{2}{4}$   $\frac{4}{4}$  *p* *f* *p*

133

Ob. *pp*

Cl. *pp*

Alto Sax. *pp*

B. Cl. *pp*

Bsn. *pp*

Detailed description: This system contains five staves for woodwinds. The music is in 4/4 time and begins at measure 133. At measure 134, the time signature changes to 6/8. The dynamic marking *pp* (pianissimo) is indicated for all instruments. The notation includes various note values, rests, and phrasing slurs.

135

Ob. *mf*

Cl. *mf*

Alto Sax. *mf*

B. Cl. *mf*

Bsn. *mf*

Detailed description: This system contains five staves for woodwinds. The music is in 4/4 time and begins at measure 135. At measure 136, the time signature changes to 6/8. The dynamic marking *mf* (mezzo-forte) is indicated for all instruments. The notation includes various note values, rests, and phrasing slurs.

137

Ob.  
Cl.  
Alto Sax.  
B. Cl.  
Bsn.

*f*

This musical system covers measures 137 and 138. It features five staves for woodwind instruments: Oboe (Ob.), Clarinet (Cl.), Alto Saxophone (Alto Sax.), Bass Clarinet (B. Cl.), and Bassoon (Bsn.). The music is in 4/4 time, with a key signature of one flat (B-flat major or D minor). A double bar line is placed after measure 137. In measure 138, the time signature changes to 6/8. The dynamic marking *f* (forte) is present in measures 137 and 138 for the Oboe, Clarinet, and Bassoon parts.

139

Ob.  
Cl.  
Alto Sax.  
B. Cl.  
Bsn.

*ff*

This musical system covers measures 139 and 140. It features the same five woodwind staves as the previous system. The music is in 4/4 time, with a key signature of one flat. A double bar line is placed after measure 139. In measure 140, the time signature changes to 4/4. The dynamic marking *ff* (fortissimo) is present in measures 139 and 140 for the Oboe, Clarinet, Alto Saxophone, Bass Clarinet, and Bassoon parts.

141

Ob.  
Cl.  
Alto Sax.  
B. Cl.  
Bsn.

This musical score covers measures 141 and 142. It features five staves for woodwinds: Oboe (Ob.), Clarinet (Cl.), Alto Saxophone (Alto Sax.), Bass Clarinet (B. Cl.), and Bassoon (Bsn.). The music is written in a 4/4 time signature with a key signature of one flat. The notation includes eighth and sixteenth notes, often beamed together, with various articulations such as slurs and accents. A fermata is present over the final note of measure 142 in the Bassoon part.

143

Ob.  
Cl.  
Alto Sax.  
B. Cl.  
Bsn.

*p* *f*

This musical score covers measures 143 and 144. It features the same five woodwind staves as the previous system. The music continues in 4/4 time with a key signature of one flat. A dynamic shift occurs at the beginning of measure 144, where the tempo and dynamics change to *f* (forte). The notation includes slurs, accents, and dynamic markings (*p* for piano and *f* for forte) placed below the staves. The Bassoon part has a fermata over the final note of measure 144.

145

Ob.  
Cl.  
Alto Sax.  
B. Cl.  
Bsn.

*mf*

*mf*

*mf*

*mf*

*mf*

Detailed description: This system of musical notation covers measures 145 and 146. It features five staves for woodwind instruments: Oboe (Ob.), Clarinet (Cl.), Alto Saxophone (Alto Sax.), Bass Clarinet (B. Cl.), and Bassoon (Bsn.). The music is written in a key with one flat (B-flat major or D minor) and a 3/4 time signature. The first measure of each staff contains a melodic line with eighth notes and slurs. The second measure shows a dynamic shift to *mf* (mezzo-forte) and includes a fermata over the first note. The bassoon part is written in the bass clef.

147

Ob.  
Cl.  
Alto Sax.  
B. Cl.  
Bsn.

*p*

*f*

*p*

*f*

*p*

*f*

*p*

*f*

*f*

Detailed description: This system of musical notation covers measures 147 and 148. It features the same five woodwind staves as the previous system. The first measure of each staff contains a melodic line with eighth notes and slurs, marked with a dynamic of *p* (piano). The second measure shows a dynamic shift to *f* (forte) and includes triplet markings (indicated by a '3' over the notes) and a fermata over the final note. The bassoon part is written in the bass clef.

149

Ob.

Cl.

Alto Sax.

B. Cl.

Bsn.

*mf*

152

Ob.

Cl.

Alto Sax.

B. Cl.

Bsn.

*p*

154

Ob.  
Cl.  
Alto Sax.  
B. Cl.  
Bsn.

*pp* *f*  
*pp* *f* *p*  
*pp* *f* *p*  
*pp* *f* *p*  
*pp* *f*

Detailed description: This system contains measures 154, 155, and 156. The music is in 4/4 time. The Oboe part starts with a half rest in measure 154, followed by a half note G4 in measure 155, and a half note G4 with a fermata in measure 156. The Clarinet part has a half note G4 in measure 154, a half note G4 in measure 155, and a half note G4 with a fermata in measure 156. The Alto Saxophone part has a quarter note G4 in measure 154, a quarter note G4 in measure 155, and a quarter note G4 with a fermata in measure 156. The Bass Clarinet part has a quarter note G4 in measure 154, a quarter note G4 in measure 155, and a quarter note G4 with a fermata in measure 156. The Bassoon part has a quarter note G4 in measure 154, a quarter note G4 in measure 155, and a quarter note G4 with a fermata in measure 156. Dynamics range from *pp* to *f*.

157

Ob.  
Cl.  
Alto Sax.  
B. Cl.  
Bsn.

*p* *f* *p* *f* *p* *f* *p*  
*f* *p* *f* *p* *f* *p*  
*f* *p* *f* *p* *f* *p*  
*f* *p* *f* *p* *f* *p*  
*p* *f* *p* *f* *p* *f*

Detailed description: This system contains measures 157, 158, 159, and 160. The music is in 4/4 time. The Oboe part has a half note G4 in measure 157, a half note G4 in measure 158, and a half note G4 in measure 159. The Clarinet part has a half note G4 in measure 157, a half note G4 in measure 158, and a half note G4 in measure 159. The Alto Saxophone part has a quarter note G4 in measure 157, a quarter note G4 in measure 158, and a quarter note G4 in measure 159. The Bass Clarinet part has a quarter note G4 in measure 157, a quarter note G4 in measure 158, and a quarter note G4 in measure 159. The Bassoon part has a quarter note G4 in measure 157, a quarter note G4 in measure 158, and a quarter note G4 in measure 159. Dynamics range from *p* to *f*. There are triplets in measures 158 and 159.

160

Ob.  $f$   $p$   $f$   $p$   $f$   $p$   $f$   $p$   $fp$

Cl.  $f$   $p$   $f$   $p$   $f$   $p$   $f$   $p$

Alto Sax.  $f$   $p$   $f$   $p$   $f$   $p$   $fp$

B. Cl.  $f$   $p$   $f$   $p$   $f$   $p$   $fp$

Bsn.  $f$   $p$   $f$   $p$   $f$   $p$   $f$   $p$

164

Ob.  $f$   $p$   $f$   $p$

Cl.  $f$   $p$   $f$   $p$

Alto Sax.  $f$   $p$   $f$

B. Cl.  $f$   $p$   $f$

Bsn.  $f$   $p$   $f$

168

Ob. *p* *f* *mf*

Cl. *f* *mf*

Alto Sax. *p* *f*

B. Cl. *p* *f*

Bsn. *p* *f*

172

Ob. *p* *f*

Cl. *p* *f* *p*

Alto Sax. *mf* *p* *f*

B. Cl. *mf* *p* *f*

Bsn. *p* *f* *mf* *f* *p*

176

Ob.  
Cl.  
Alto Sax.  
B. Cl.  
Bsn.

*p f p f*

*f p f*

*p f p f*

*p f p*

*f p f*

179

Ob.  
Cl.  
Alto Sax.  
B. Cl.  
Bsn.

*p f p f*

*p f p f*

*p f*

*f p f*

*p f*

Ob.  
Cl.  
Alto Sax.  
B. Cl.  
Bsn.

*p*  
*p*  
*p f p*  
*p f p*  
*mf p*

Detailed description: This musical score page, numbered 183, features five staves for woodwind instruments. The Oboe (Ob.) staff uses a treble clef and contains a melodic line with a dynamic of *p* and accents. The Clarinet (Cl.) staff also uses a treble clef and features a similar melodic line with a dynamic of *p*. The Alto Saxophone (Alto Sax.) staff uses a treble clef and has a more complex line with dynamics *p*, *f*, and *p*. The Bass Clarinet (B. Cl.) staff uses a treble clef with a one-flat key signature and has dynamics *p*, *f*, and *p*. The Bassoon (Bsn.) staff uses a bass clef and provides a harmonic accompaniment with dynamics *mf* and *p*. The score includes various musical notations such as slurs, accents, and dynamic markings.