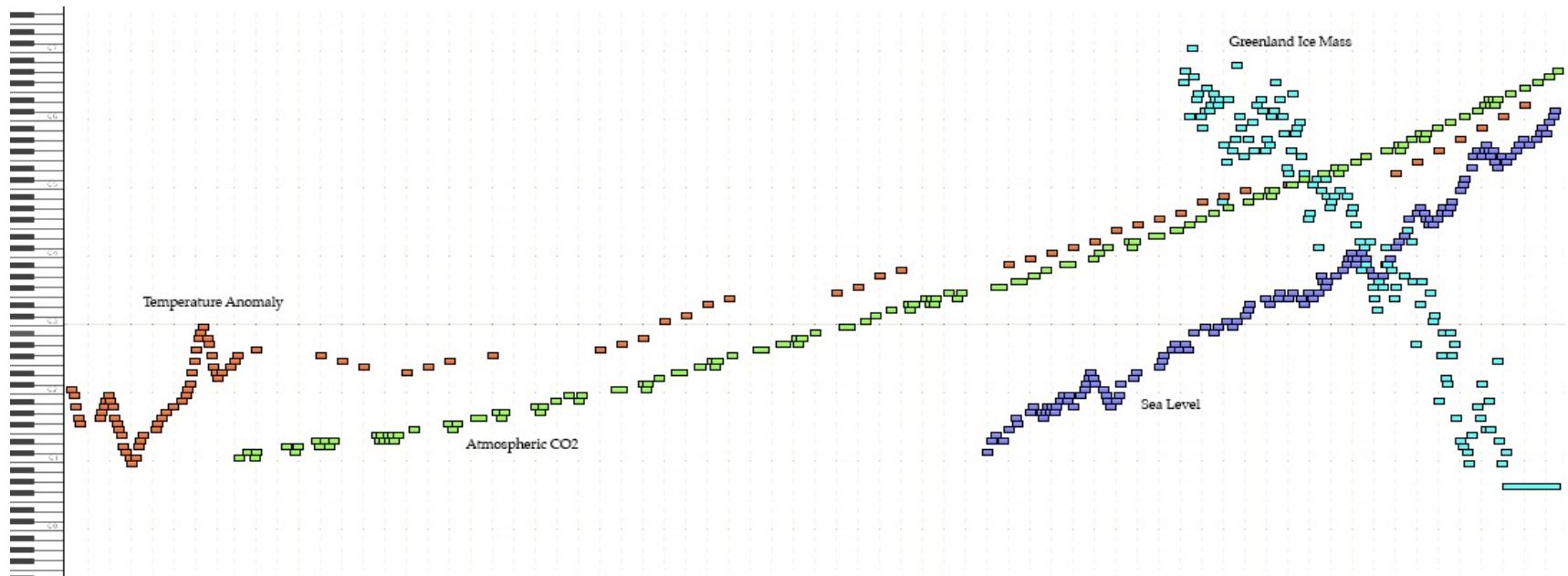


for Heidi Leathwood

Four Warnings for Solo Piano (2020)

Milton Mermikides



This piece has been created through the systematic translation of climate data 1880-2019. No information has been added or removed. Any gaps represent periods where data was not documented or with values repeated within a fine margin of error. Bespoke programming in Max for Live was built for this project but the statistics are directly sourced from NASA and available on request.

PERFORMANCE

The time scale has been compressed to a quaver per year (1880-1958), and one bar per year (a quaver per *decyear*) thereon. At the indicated tempo this results in a performance of approximately two minutes, however any master tempo can be elected. Furthermore each era (indicated by double barlines) can have its own time-scale against that master tempo (ie any musical subdivision can be used to represent a historic time slice)

As an option, an analog metronome placed on the piano clicking crotchets or quavers can be used for performance to represent the urgent passing of time. This can run for as long as required at the outset of the piece, and is to be stopped immediately when we reach 2020 while the piano still resonates.

This may be played by 1-4 pianists on the same piano (with the lines suitably distributed)

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♩=180 (♩= year)

Temperature Anomaly

1880 1890 1900 1910

mp *pp* *mp* *pp* *p*

Temp.

1920 1930 1940 1950

mf *p*

♩=180 (♩= deciyear)

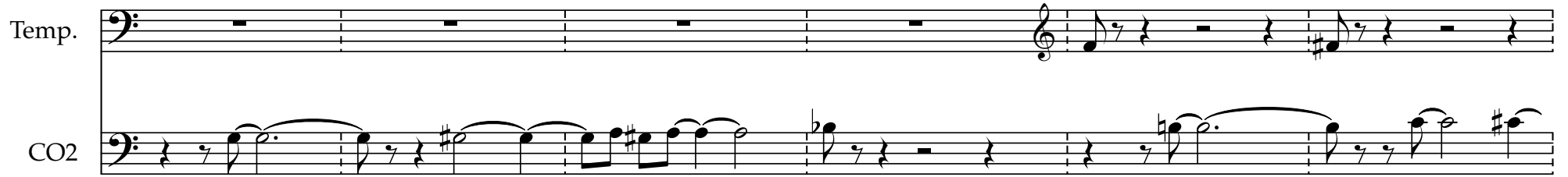
Temp.

1958 1959 1960 1961 1962 1963

mp

CO2

p *mp*

Temp. 

CO2

1990

1993

Temp. 

CO2

Sea Level 

Temp. 

CO2

Sea Level 

2000

Temp.

CO2

Sea Level

2002

8va

2005

Ice Mass

Temp.

CO2

Sea Level

(8)

Ice Mass

Temp.

CO2

Sea Level

6

2010

Ice Mass

Temp.

CO2

Sea Level

(8)

8va

7

The image shows a musical score for four variables: Ice Mass, Temp., CO2, and Sea Level. The score is written on four staves. The first staff, labeled 'Ice Mass', uses a bass clef and contains a melodic line with various notes and rests. The second staff, labeled 'Temp.', uses a treble clef and contains a line with mostly rests and a few notes. The third staff, labeled 'CO2', uses a treble clef and contains a line with notes and rests, including a phrase with a slur. The fourth staff, labeled 'Sea Level', uses a treble clef and contains a line with notes and rests. There are dashed lines between the staves, with the number '(8)' written above the first and third staves. A '8va' marking is present above the fourth staff. The music is written in a key with one sharp (F#) and one flat (Bb).

Ice Mass

Musical staff for Ice Mass in bass clef. It features a sequence of notes: G2, F2, E2, D2, C2, B1, A1, G1. A long slur covers the entire sequence. A dashed line with the number (8) is positioned below the staff, indicating a duration of 8 measures.

Stop Metronome

Temp.

Musical staff for Temp. in treble clef. It features a sequence of notes: G4, F4, E4, D4, C4, B3, A3, G3. A long slur covers the entire sequence. A dashed line with the number (8) is positioned below the staff, indicating a duration of 8 measures.

CO2

Musical staff for CO2 in treble clef. It features a sequence of notes: G4, F4, E4, D4, C4, B3, A3, G3. A long slur covers the entire sequence. A dashed line with the number (8) is positioned below the staff, indicating a duration of 8 measures.

ff

Sea Level

Musical staff for Sea Level in treble clef. It features a sequence of notes: G4, F4, E4, D4, C4, B3, A3, G3. A long slur covers the entire sequence. A dashed line with the number (8) is positioned below the staff, indicating a duration of 8 measures.

ff

let resonate adlib

red.