Sarah Smuts-Kennedy

Star circuit: Heart circuit
Events within Boundaries
Rm Gallery, 3 Samoa Lane, Auckland
05 – 26 June 2016
earth
heart

8 Hz
MOON
POSITION
Descending

SUN
POSITION
Taurus

PHASE
3pm – New Moon

SPECIAL

12pm – Moon opposition Saturn

1pm – Venus quadrature Jupiter

2pm – Moon conjunction Venus

3pm – Sun conjunction Moon (New Moon)
Monday  
June

Moon Position  
9pm – Ascending  ☽
2pm – Gemini (+) ♊

Sun Position  
Taurus  ♈

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6

Monday  
June

Moon Position  
Ascending  ☽
Gemini ♊

Sun Position  
Taurus  ♈

Special

10am – Sun conjunction Venus ☉ ♀ 10

8pm – Moon opposition Pluto ☽ ♉₀²₀
MOON POSITION
Ascending

SUN POSITION
Taurus

2pm – Cancer (-)

8

Wednesday
June

MOON POSITION
Ascending

SUN POSITION
Taurus

Cancer

9

Thursday
June
Friday
June

MOON POSITION
Ascending

SUN POSITION
Taurus

SPECIAL
♀ ♂ 05
5am – Mercury
opposition Mars

10

11
Saturday
June

MOON POSITION
Ascending

SUN POSITION
Taurus

MOON POSITION
Ascending

SUN POSITION
Taurus

5am – Mercury
opposition Mars
<table>
<thead>
<tr>
<th>Date</th>
<th>MOON POSITION</th>
<th>SUN POSITION</th>
<th>SPECIAL</th>
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</thead>
<tbody>
<tr>
<td>Sunday</td>
<td>Ascending Virgo</td>
<td>Taurus</td>
<td>1am – Moon opposition Neptune</td>
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<td>7am – Moon conjunction Jupiter</td>
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<tr>
<td>Monday</td>
<td>Ascending Virgo</td>
<td>Taurus</td>
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<tr>
<td>Date</td>
<td>Moon Position</td>
<td>Sun Position</td>
<td>Special</td>
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<tr>
<td>14</td>
<td>Ascending Virgo</td>
<td>Taurus ☭</td>
<td>13pm – Moon conjunction Uranus</td>
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<tr>
<td>15</td>
<td>Ascending Virgo</td>
<td>Taurus ☭</td>
<td>Wednesday June</td>
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</tbody>
</table>

**Tuesday June**

**Wednesday June**
MOM POSITION  
Ascending

10pm – Libra (-)

DISTANCE  
12am – Apogee

SUN POSITION  
Taurus

Thursday  
June

MOM POSITION  
Ascending

Libra

SUN POSITION  
Taurus

Friday  
June
<table>
<thead>
<tr>
<th>Date</th>
<th>MOON POSITION</th>
<th>SUN POSITION</th>
<th>SPECIAL</th>
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<tbody>
<tr>
<td>18</td>
<td>Ascending Taurus</td>
<td>♄</td>
<td>8am – Scorpio (-)</td>
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<td></td>
<td></td>
<td>2am – Moon opposition Venus</td>
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<td>4pm – Saturn quadrature Neptune</td>
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<tr>
<td>19</td>
<td>Ascending Taurus</td>
<td>♄</td>
<td>7am – Moon opposition Mercury</td>
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<td>♏ 13</td>
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<td></td>
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<td>1pm – Moon conjunction Saturn</td>
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</tbody>
</table>
MOON POSITION
Ascending

8pm – Sagittarius (+)

PHASE
11pm – Full Moon

SUN POSITION
Gemini

SPECIAL
11pm – Sun opposition Moon (Full Moon)

Monday
June

20

MOON POSITION
Descending

3am – Mercury opposition Saturn

5am – Mercury quadrature Neptune

7am – Moon opposition Venus

11am – Winter Solstice

SUN POSITION
Gemini

SPECIAL
03
05
07

Tuesday
June

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<table>
<thead>
<tr>
<th>Date</th>
<th>Moon Position</th>
<th>Sun Position</th>
<th>Special</th>
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</thead>
<tbody>
<tr>
<td>22</td>
<td>Descending</td>
<td>Gemini II</td>
<td>7am – Moon conjunction Pluto</td>
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<tr>
<td>23</td>
<td>Descending</td>
<td>Gemini II</td>
<td>11am – Mercury quadrature Jupiter</td>
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</tbody>
</table>

**Wednesday June 22**: 7am – Moon conjunction Pluto

**Thursday June 23**: 11am – Mercury quadrature Jupiter
24

Friday
June

25

Saturday
June

MOON POSITION
Descending
)Mathilde
Capricorn

SUN POSITION
Gemini
II

MOON POSITION
Descending
)Mathilde

7am –
Aquarius (+)

SUN POSITION
Gemini
II

MOON POSITION
Descending
)Mathilde

SUN POSITION
Gemini
II
**Notes about the calendar**

All celestial patterns notated are located from our perspective here on earth.

The Sun moves on a path through the celestial sphere called an ecliptic. We observe this path here on earth through our sunsets and sunrises.

The moon moves through two rhythms as it moves around the earth in an ellipse not a circle.

The **Synodic Month** referred to the waxing and waning of the Moon includes the events the New and Full moon. This rhythm is a 29.3 day cycle.

The **Tropical Month** referred to as the Ascending and Descending Moon is a 27.3 day cycle.

In the Ascending phase of this cycle the Moon moves away from our earth and in the Descending phase it moves towards the earth. The Moon effects here on earth can be observed in its pull on water, for example on our tides. In the Ascending phase the pull on water has slight levity effect and in the Descending phase it has a slight gravity effect. Biodynamic agricultural researchers observed this effect in plants and soil and coordinate their tasks for example to work along side the sap in plants and moisture content in soil. Because people are made up in large part of water it is fair to presume these force effects on water also effect us.

**Apogee and Perigee**

The point that it is furtherest away from the earth is called Apogee, the closest Perigee. These events are considered by Biodynamic agricultural researchers to for the most part unproductive times to work with biology.

**Nodes**

As the moon Ascends and Descends in our sky it moves across the path of the sun. These crossing points are called nodes. Some times this can be observed here on earth as an eclipse. It has been observed by biodynamic agricultural researchers that this Node event, which can take approximately and hour to complete, has an unproductive effect on biology here on earth.

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**Table: Moon and Sun Position**

<table>
<thead>
<tr>
<th>Moon Position</th>
<th>Sun Position</th>
<th>Special</th>
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</thead>
<tbody>
<tr>
<td>Descending</td>
<td>Gemini</td>
<td>12pm – Sun conjunction Neptune</td>
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<tr>
<td></td>
<td></td>
<td>8pm – Sun opposition Jupiter</td>
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<tbody>
<tr>
<td>26</td>
<td>Aquarius</td>
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<tr>
<td>5pm</td>
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<td>12</td>
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</tbody>
</table>

**SPECIAL**

- 12pm – Sun conjunction Neptune
- 8pm – Sun opposition Jupiter

**SPECIAL EVENTS**

- Sun conjunction Neptune 12pm
- Sun opposition Jupiter 8pm
Constellations are group of stars in a recognizable pattern in the sky. Examples are the constellations of Scorpio and Taurus, Orion or Pleiades. Some of them have a relationship to the sun, moon and planets as they form the path that these wanderers travel along.

Conjunction occurs when two planets are in the same place in the sky as seen from earth. The angle between these planets is close to zero. A New Moon is a conjunction.

Opposition is when two planets are exactly opposite each other where the Earth sits in between. Moon in opposition to the Sun is a Full Moon.

Quadrature or Squares occurs when two planets are 90 degrees apart.

Biodynamic agricultural researcher Maria Thun noted that these celestial events effect biology here on earth through her observations on plants. Some of these effects include good growth rates from seeds sown 48 hours before the Full Moon, and strong seedlings from seeds grown on the event Moon in Opposition to Saturn.

With thanks to the Biodynamic Associations Gardening Calendar. www.biodynamic.org.nz

Human physiological rhythms and behaviors are synchronized with solar and geomagnetic activity, so fluctuations in the earth and sun’s magnetic fields can affect virtually every circuit in human as well as any biological systems.

It is said that 8Hz is the fundamental “beat” of the planet. The heartbeat of the Earth is better known as Schumann resonance and is named after physicist Winfried Otto Schumann, who documented it mathematically in 1952. Schumann resonance is a global electromagnetic resonance, which has its origin in electrical discharges of lightning within the cavity existing between the Earth's surface and the ionosphere. This cavity resonates with electromagnetic waves in the extremely low frequencies of approximately 7.86Hz – 8Hz.

The “ordinary” thought waves created by the human brain range from 14Hz to 40Hz. This range only includes certain types of dendrites belonging to brain cells, predominantly within the left (the more rational) hemisphere of the brain, which is the center of activity.

If the two hemispheres of our brain are synchronized with each other at 8Hz, they work more harmoniously and with a maximum flow of information. In other words, the frequency of 8Hz seems to be the key to the full and sovereign activation potential of our brain.

8Hz is also the frequency of the double helix in DNA replication. Melatonin and Pinoline work on the DNA, inducing an 8Hz signal to enable metosis and DNA replication. A form of body temperature superconductivity is evident in this process.

www.heartmath.org
**Events within Boundaries** is a site and calendar specific installation that materialised during a 7 day informal studio residency Sarah Smuts-Kennedy undertook at Rm during Matariki 2015. It continues her inquiry into the potential for geometric form to function as site-specific tools for investigating the qualities of space.

*Star circuit*, 2016  
brass  
dimensions variable

*Heart circuit*, 2016  
copper wire, copper wire gold plated, copper wire silver plated copper wire nickel plated, wall  
dimensions variable

*A Grazing Encounter Between Two Spiral Galaxies* (NGC 2207 and IC2163)  
Hubble Space Telescope, 4 November 1999