

E = ENERGY OF MEMORIES



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INTRODUCTION

The different forms of energies in the Atacama are constantly interacting with each other. Alternate forms of energies, such as memories of hope, trauma, fear, joy, rituals play a defining role in the behavior of living and non-living things. These memories help us understand the context and reactionary meaning of all elements in the Atacama.

The concept of memory as an energy can be explained through the laws of thermodynamics (Rudolf Clausius and William Rankine) and the concept of entropy expanded by Rosalind Krauss. The Law of Conservation of Energy, states that energy cannot be created or destroyed in an isolated system. Similarly, memories are created through the reactions to other memories. The second law of thermodynamics states that the entropy of any isolated system always increases. According to Rosalind Krauss, changes are irreversible, even attempting to subvert to its original state will cause further changes.

These memories are affecting living and nonliving things and directly or indirectly affects their behavior and sometimes even becomes a catalyst to decisions. Through a series of illustrations, this project will speculate on the ability to use digital art as a tool for system literacy of the economic, social, political and ritualistic energy systems in the lithium triangle. By illustrating the memories, I seek to allow the viewer's perceptions of the art to be shaped by his experience, also allow the art to shape perception and convey experiences and memories to the viewer.

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synergy [sin-er-jee]

definition:

The interaction or cooperation of two or more organizations, substances, or other agents to produce a combined effect greater than the sum of their separate effects.

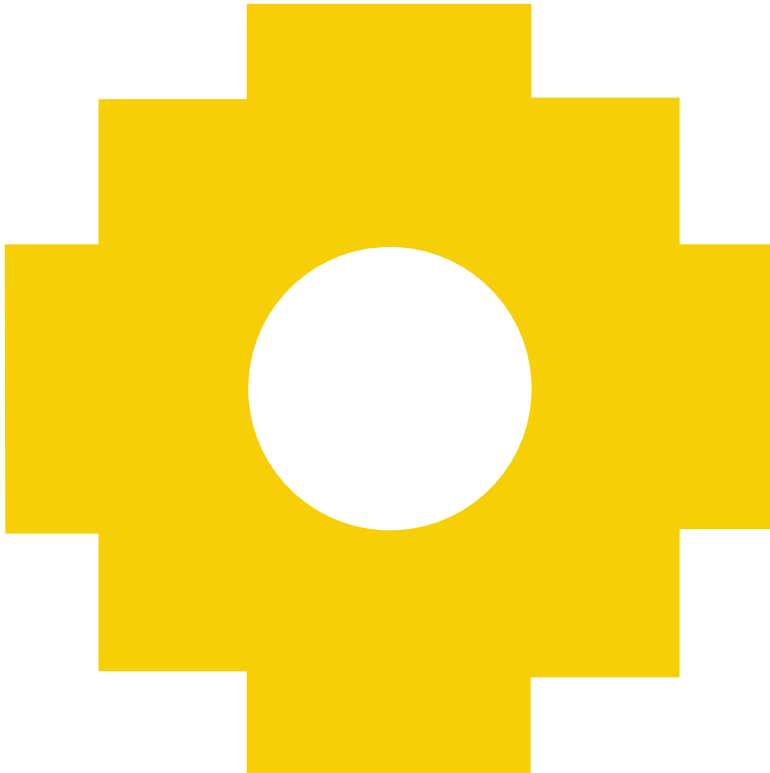
source:thesaurus

MEMORY OF SYNERGY

The culture, rituals, and landscapes exhibit a set of relations unifying all living and non-living things in the Puna de Atacama.

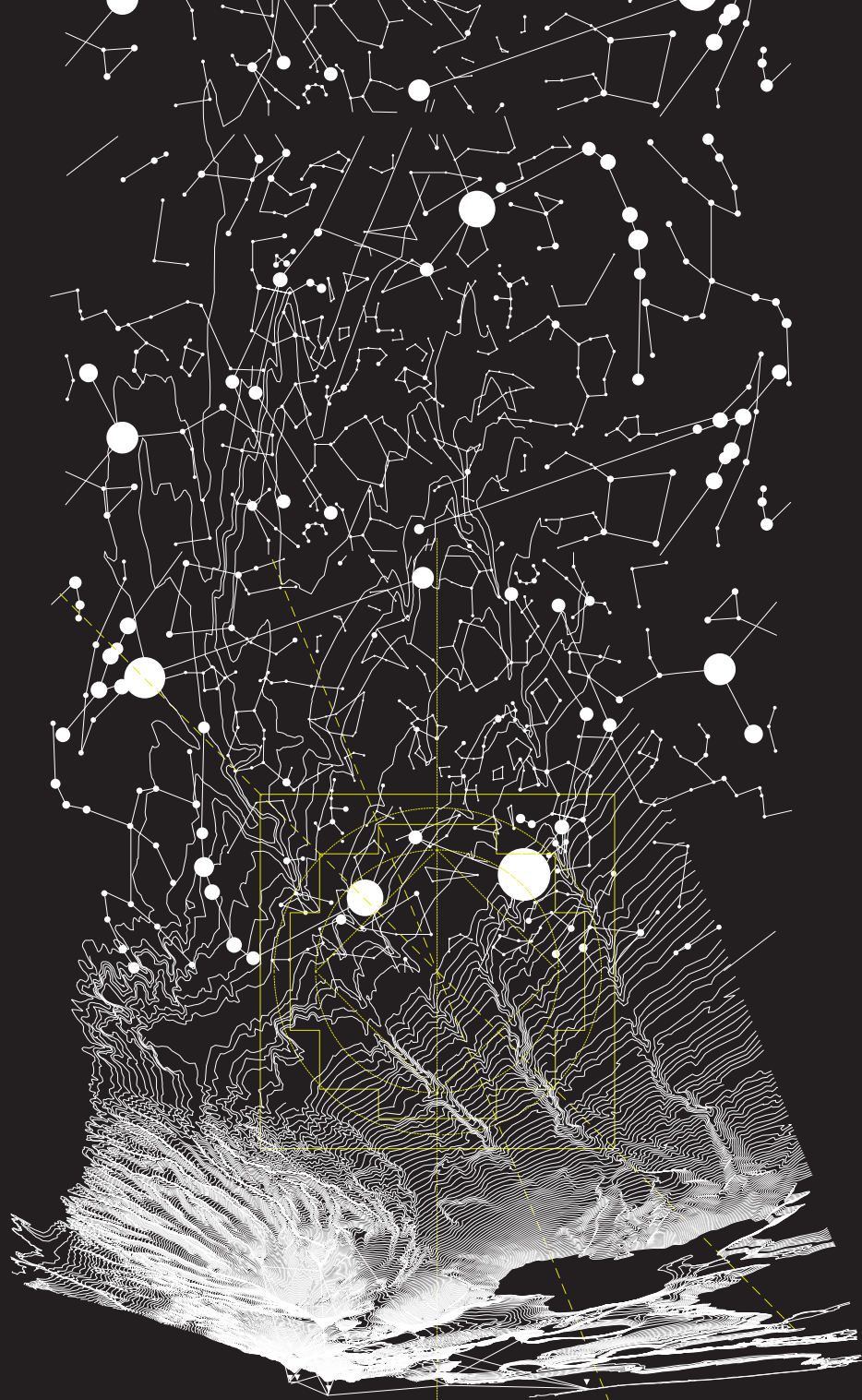


Seasonal canal cleaning in camar
Source: ny times



The Chakana

The Chakana or Incan cross is considered to have holy, cosmological and geometric values. this stepped cross was used as a measuring tool, a calendar and a navigation tool which was used throughout the Incan empire.



WINTER, SUMMER

DAY, CULTIVATION

MOON, SUN

MALE, FEMALE

HOT, COLD

ANIMAL, PACHAMAMA

GROUND AND SKY

SUMMER DAY, WINTER NIGHT

RAINBOW DAY, CLOUD RAIN

MOTHER EARTH, SUMMIT

ANIMALS, WATER

EQUINOX, SOLSTICE

EAST, WEST

SOUTH, NORTH

~~MINING, ECOSYSTEM~~



overexploitation [ek-sploi-tey-shuh n]

definition:

The action or fact of making excessive use of a resource.

source:thesaurus



MEMORY OF OVEREXPLOITATION

The natural metabolism of the ecosystem is disrupted by economic goals. The ecosystem is going through tachycardia (fast heart rate) in order to meet the demands.



The Whiphala

red: earth and Pachamama

orange: society and culture

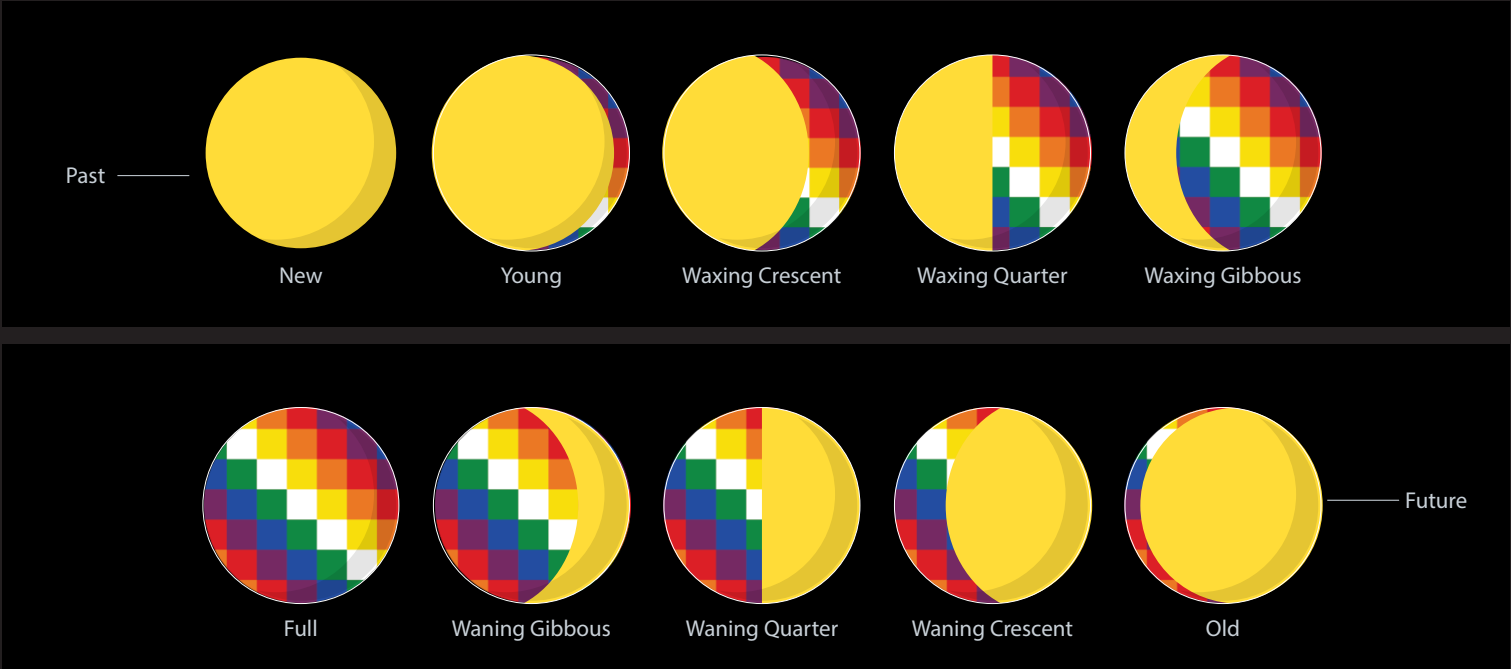
yellow: energy

white: Time

green: natural resources

blue: heavens

violet: Andean government and self-determination



we fight for our cultural light to shine brighter.
mining will try to silence us.
but then, we will shine again,
but the mining will silence us,
then we will shine again,
and then the mining will silence us,
then we shined again,
later mining silenced us,
we shined again,

Lithium will try to silence us,
like the moon, we may never cease to shine

-Culture

lithium 3	nitrogen 7	sodium 11	chlorine 17	iron 26	copper 29	silver 47	gold 79
Li	N	Na	Cl	Fe	Cu	Ag	Au
6.941	14.007	22.990	35.453	55.845	63.546	107.87	196.97



YOU
EXTRACTED
FOR PEACE
OF MIND
BUT
TURNED
OUT TO BE
OUR PIECE
OF MIND.

trauma [trou-muh, traw-]

definition:

emotional shock following a stressful event or a physical injury, which may lead to long-term neurosis.

source:thesaurus

MEMORY OF TRAUMA

The memories of the past traumas influence the Atacama today. This fears grew through the accumulation of memories following colonization, genocides, segregation and coups d'états...

The memories cannot be undone. Your reactions to them will cause further entropy...



The military regime established by the US backed coup in 1973. The official death toll of Pinochet's terror is about 3200. Many more were jailed and tortured
source: greenleft



General Augusto Pinochet
source: el pais

VERDAD Y JUSTICIA
AHORA

DONDE ESTAN

TORTURA EN CHILE
VERGUENZA MUNDIAL

PINOCHÉ MOORDENAAR

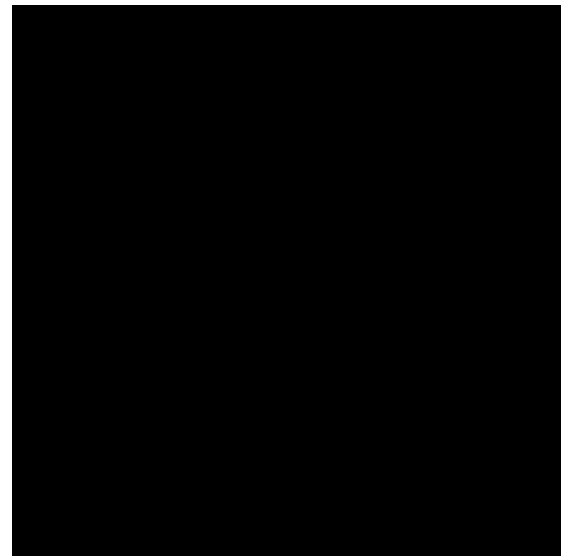
EXTRADITE PINOCHE

ALLENDE VIVE

JUICIDOR ASESINO

DICTATOR PROLA PINOCHET

DETENIDOS



encroachment [en-krohch-muh nt]

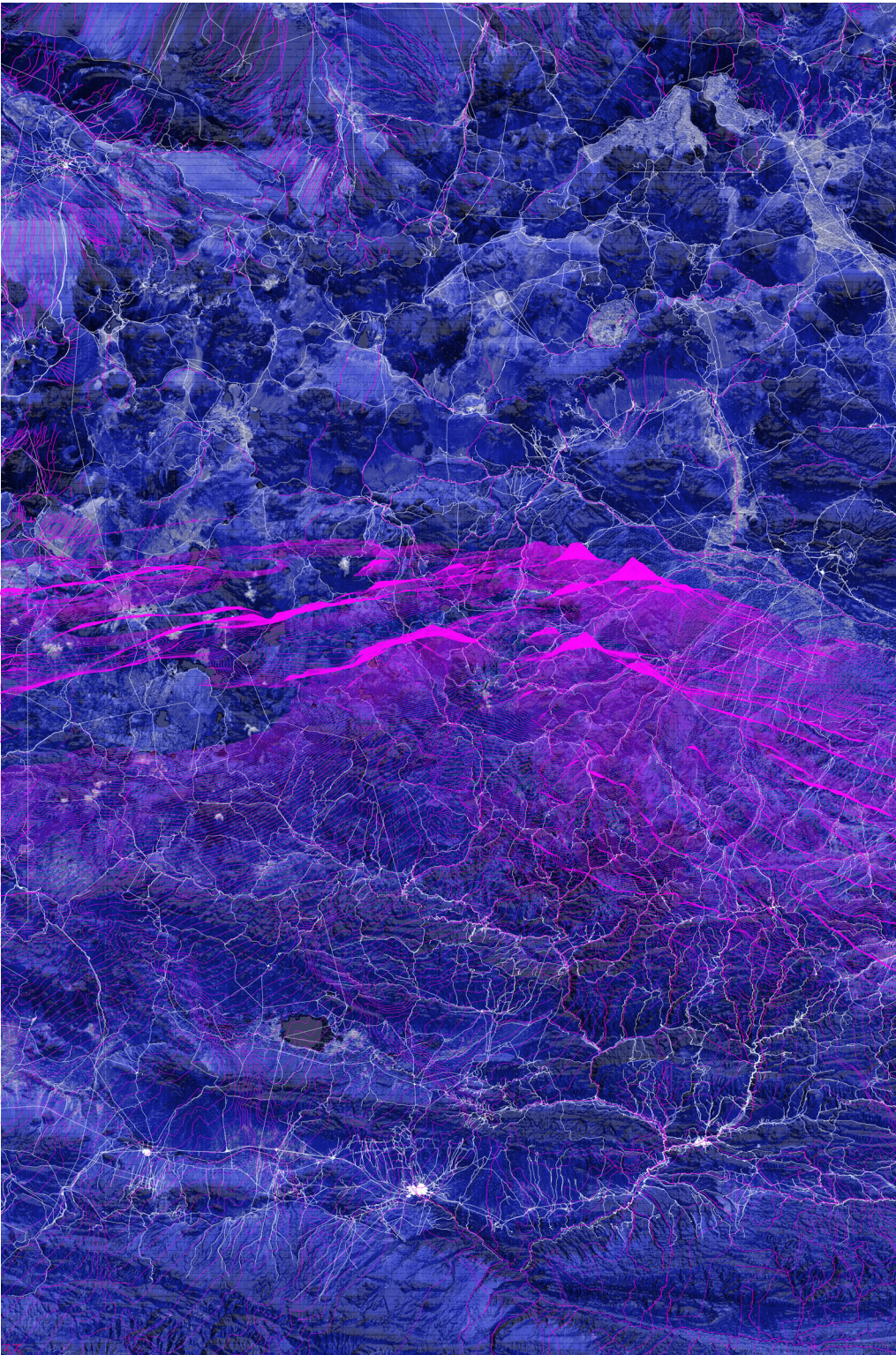
definition:

Intrusion on a person's territory, rights,

source:thesaurus

MEMORY OF ENCROACHMENT

The Atacamenos have been victims to various forms of encroachments, such as the Andean empire, the scale: the lithium concessions, infrastructure.



Manmade infrastructures are dividing mountains
(the Atacamenos ancestors) into fragments.

ecocide [ek-uh-sahyd, ee-kuh-]

noun

the destruction of large areas of the natural environment by such activity as nuclear warfare, overexploitation of resources, or dumping of harmful chemicals.

source:thesaurus

MEMORY OF ECOCIDE

The Longest ongoing war in history is the constant battle between the economic and ritualistic value of the land.

Do you hear me?
I am dying a slow and silent death.
I am suffering from substantial
laceration and wounds...
They will push me past my limit.

HELP...
-Mountain

This piece illustrates the clash between the economic and ritualistic value of the land. The indigenous population views the mountains as their ancestors while mining companies see a source of financial benefit.



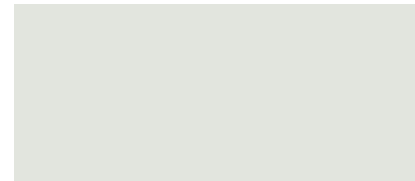
NATURE'S MEMORY

The trials and tribulations of the anthropocenes are also felt by nature. She responds, she speaks and she remembers.

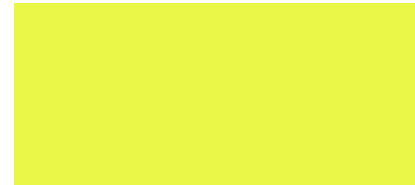
This is a display of nature's memory and responses through colors



DAY 540



LITHIUM SULFATE



CHLORIDE, , MAGNESIUM, POTASSIUM, CALCIUM



CHLORIDE, , MAGNESIUM, POTASSIUM, CALCIUM



CHLORIDE, , MAGNESIUM, POTASSIUM

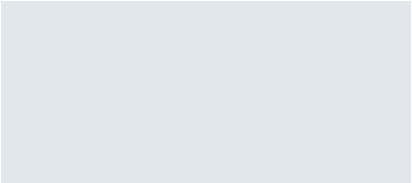
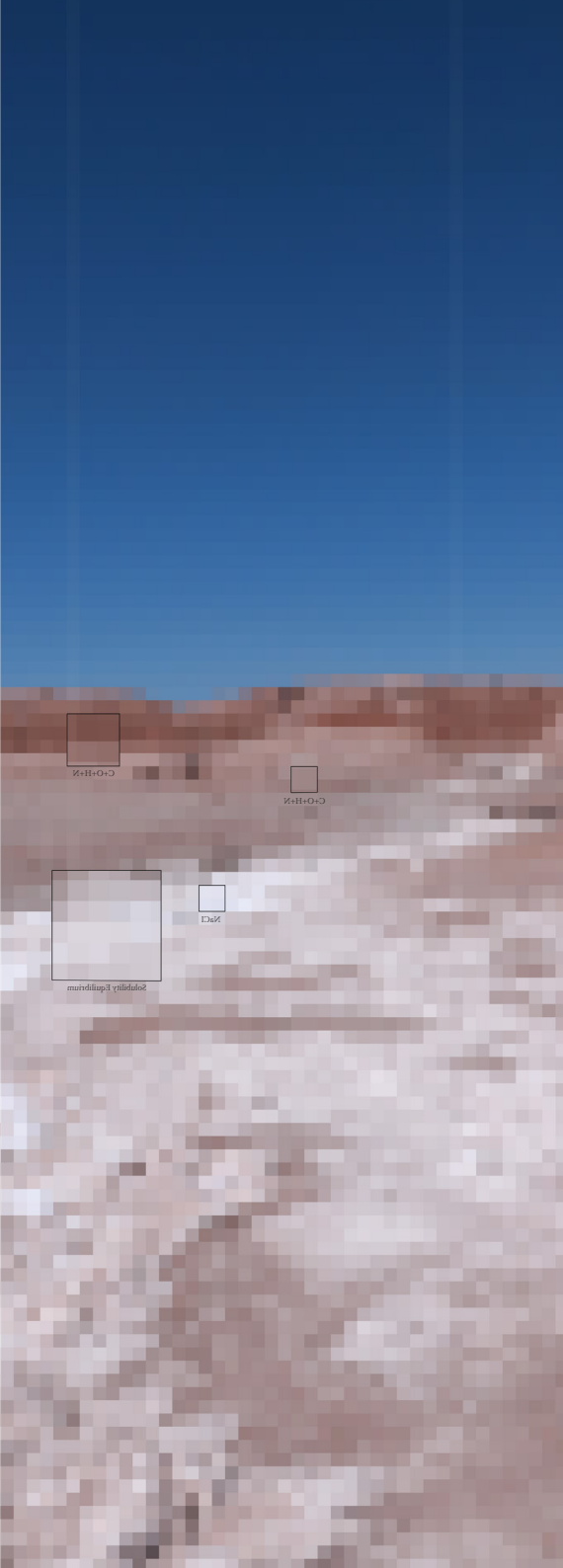


CHLORIDE, MAGNESIUM



DAY 1

CHLORIDE



NaCl (salt)



NaCl (salt)



C+O+H+N (soil)



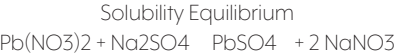
C+O+H+N (soil)

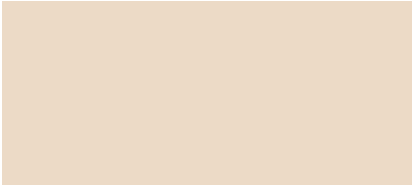


C+O+H+N (soil)

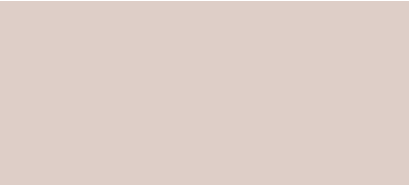


C+O+H+N (soil)





C+O+H+N (soil)



C+O+H+N (soil)



C+O+H+N (soil)



H+P+K+Ca+Mg +Zn+S+Cl+B+Fe +Cu+Mn

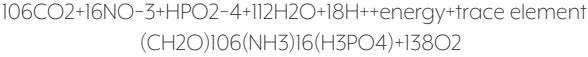


C+O+H+N (soil)



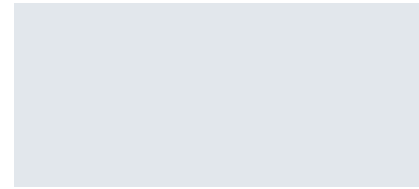
H2O

Eutrophication

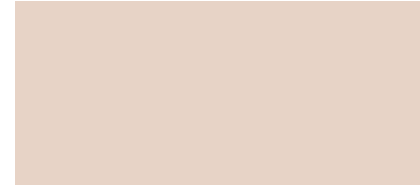




Latitude: -23.135422 | Longitude: -68.097921
San Pedro de Atacama, Provincia de El Loa, Chile



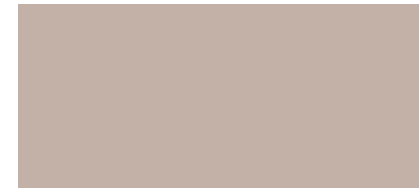
NaCl (salt)



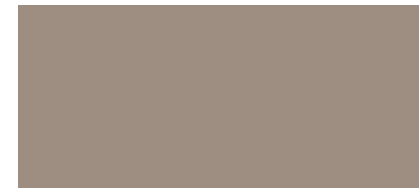
C+O+H+N (soil)



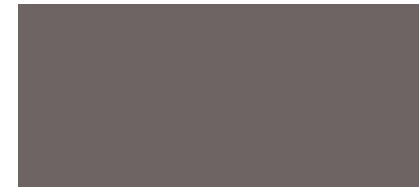
H+P+K+Ca+Mg +Zn+S+Cl+B+Fe +Cu+Mn



H+P+K+Ca+Mg +Zn+S+Cl+B+Fe +Cu+Mn



H+P+K+Ca+Mg +Zn+S+Cl+B+Fe +Cu+Mn



C+O+H+N (soil)

Aerobic Decomposition
C02 2/3 N 1/3 CARBON, C 12.0107 > : NITROGEN, N 14.007

