

Report 3

Question: What does the I Ching reveal about the growing national and private ambitions to conquer space?

Date: 21.02.22 /14.03.22

Number of participants : 157

Average statistical frequency of each hexagram: 2 or 3 times ($157/64 = 2.45$)

Distribution of the hexagrams

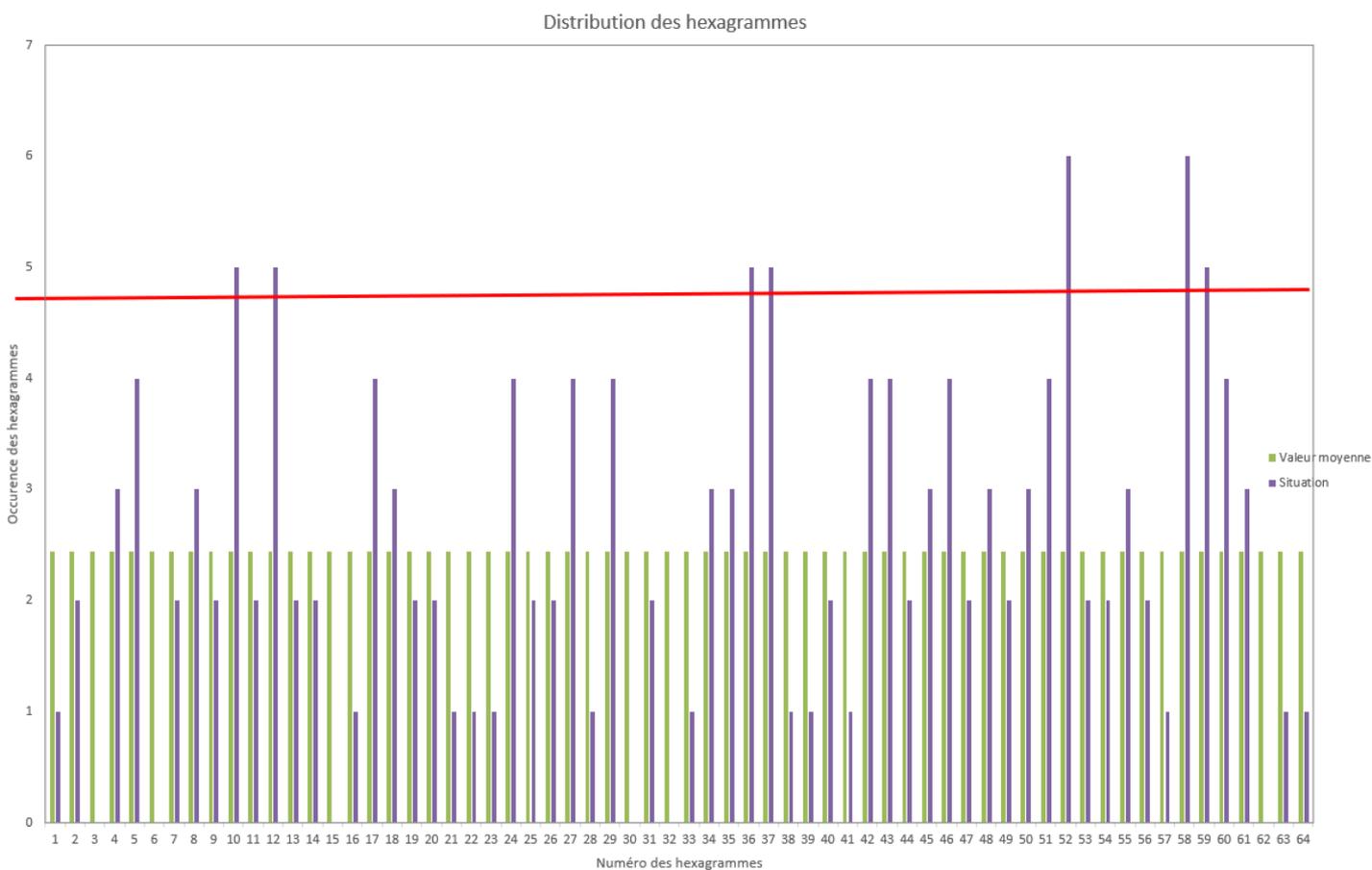


Figure 1 Distribution of the hexagrams according to their occurrence.

The graph shows on the horizontal axis the numbers of the hexagrams and on the vertical axis their respective occurrences. In blue the number of times that the corresponding hexagram was recorded, in green the average occurrence of each hexagram when they are considered all equiprobable (average value equal to 2.45.). The red line delimits the hexagrams which show an occurrence higher than the double of the average value.

They are the hexagrams 59,58,52, 37,36,12 and 10. They are clearly predominant and represent almost 25 % of all the draws whereas they should be close to 10 % ($=7/64$)

The predominant hexagrams

| Hex # | | Absolute Occurrences | Occurrences % | Accumulated Occurrences |
|-------|------------------------|----------------------|---------------|-------------------------|
| 52 | Keeping still | 6 | 3.85% | 3.85% |
| 58 | The Joyous | 6 | 3.85% | 7.69% |
| 10 | Treading | 5 | 3.21% | 10.90% |
| 12 | Stagnation | 5 | 3.21% | 14.10% |
| 36 | Darkening of the light | 5 | 3.21% | 17.31% |
| 37 | The Clan | 5 | 3.21% | 20.51% |
| 59 | Dispersion | 5 | 3.21% | 23.72% |

Table 1 The 7 predominant hexagrams (exceed 2 times the average value)

This third experiment yields a somewhat weaker χ^2 test value than the first two experiments; its risk of error is greater than 27%.

This indicates that the use of this test should be done with great care. Indeed in tests of a pharmacological nature, the notion of "sense" in the measured series is completely nonexistent. The χ^2 test is essentially quantitative and only analyzes quantitative deviations from a theoretical mean.

In the case of our experiment, the meaning of the predominant hexagrams play a remarkable and important role, as well as their structural relationships. The reflections which follow, show tracks to be followed to analyze collective draws such as ours.

Proposal for semantic analysis

Hexagrams 52 and 58, Keeping still, The Joyous, opposite or complementary, give a subtle lighting of the stakes of spatial research: the first invites us to seek inner serenity, find tranquility, the second incites us to turn towards others, meet the unknown, confront it. These two "antagonistic" dynamics can evolve harmoniously if the attributes of the lines are respected.

Hexagram 52 is also the pre-heaven of Hexagram 1, Creative Impulse. The creativity of human intelligence is essential for the success of space research, which also symbolizes ambitions other than technological innovations.

Hexagrams 10, 12 and 36 unequivocally reflect the possible challenges of the enterprise. Hexagram 37 describes the universal and necessary dimension to have chances to succeed. It is tempting to imagine that the clan mentioned here designates the humanity as a whole and the need to organize itself to reach the demanding goal of space conquest. It is a question of federating the efforts to carry out an objective common to the whole humanity.

In a more detailed analysis, it will be necessary to also consider the mutant lines of these hexagrams and to take into account the derivatives.

The "silent" hexagrams

Finally 6 hexagrams do not appear (as situation hexagram).

| Hex # | | Occurrences absolues | Occurrences % | Occurrences accumulées |
|-------|-----------------------------|----------------------|---------------|------------------------|
| 3 | Difficulty at the beginning | 0 | 0.00% | |
| 6 | Conflict | 0 | 0.00% | |
| 15 | Modesty | 0 | 0.00% | |
| 30 | The Clinging / Fire | 0 | 0.00% | |
| 32 | Duration | 0 | 0.00% | |
| 62 | Preponderance of the Small | 0 | 0.00% | |

Table 2 The "silent" hexagrams

These "silent" hexagrams, that do not appear, are in fact "active" through structural relationships between them and the predominant hexagrams, as the structural analysis shows.

Structural analysis

Of the seven predominant hexagrams five are members of the nuclear families of hexagrams 40 and 37, which are opposites. Hexagram 37 appears here in its role as a nuclear hexagram and not as a situation hexagram. Hexagrams 6 and 15, "silent" hexagrams, also belong to these nuclear families.

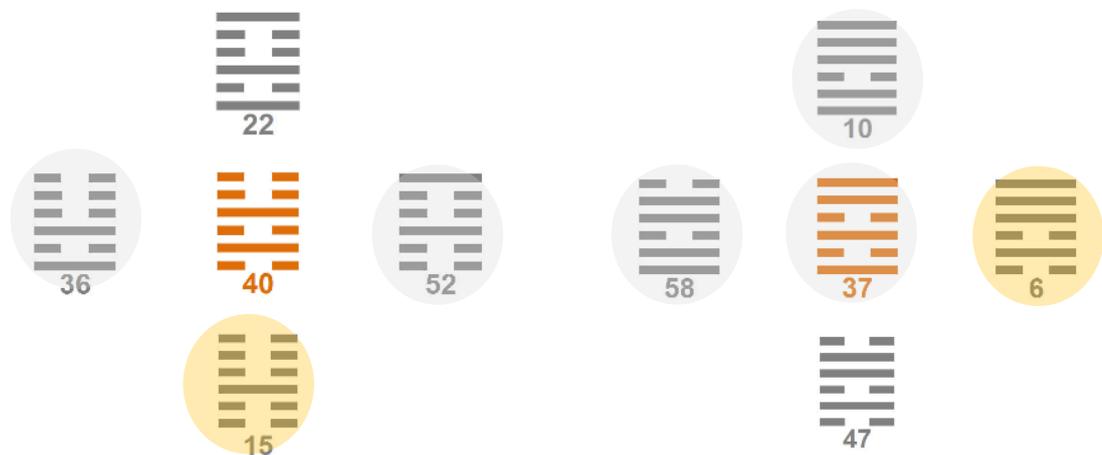


Figure 2 The predominant hexagrams with their nuclear families

Structural relations also exist between the predominant and "silent" hexagrams. Hexagram 36, the opposite of hexagram 6, is the pre-heaven of hexagram 3 which is the pre-heaven of hexagram 31, the reverse of hexagram 32. Moreover hexagrams 3 and 42, the opposite of hexagram 32, belong to the nuclear family of hexagram 23. This doubly links these two "silent" hexagrams.

Hexagrams 9 and 36, belonging to the same family of the pre-heaven as hexagrams 3 and 31, reversed from hexagram 32. The reverse of hexagram 9 is hexagram 10, the predominant hexagram. The opposite of hexagram 36, also predominant hexagram, is

hexagram 6, "silent" hexagram. These structural relations are very well suited to the predominant or "silent" nature of these hexagrams through operations of reversing or opposition.

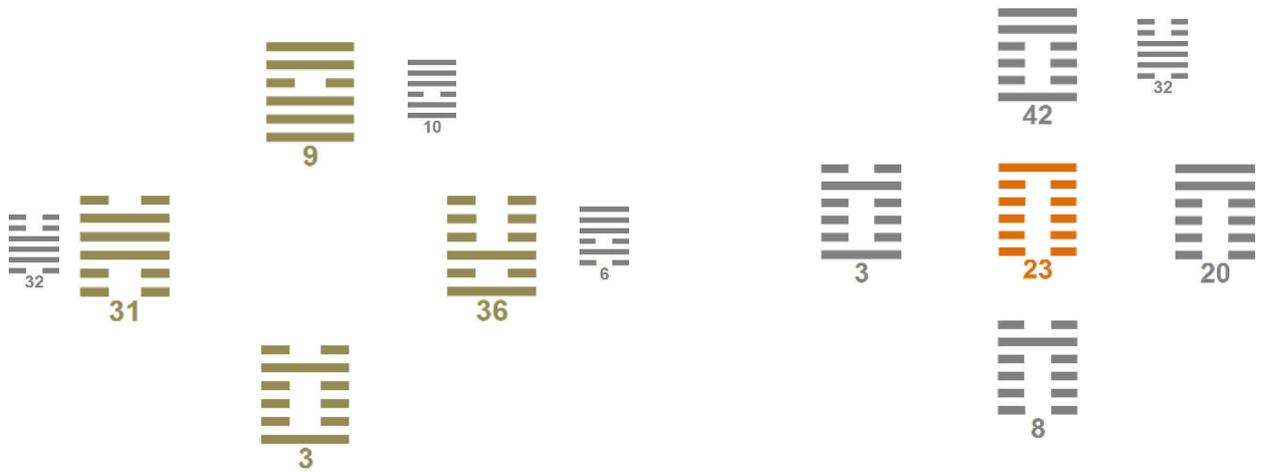


Figure 3 Structural relations between the "silent" and predominant hexagrams

The family of the before-heaven, regrouping the hexagrams 32,23, 6, 38 also weave links between the predominant and "silent" hexagrams.

Hexagrams 6 and 32 belong to the "Silent" hexagrams and are of the same pre-heaven family. Hexagram 38 is the reversal of the nuclear hexagram 37 mentioned above. Hexagram 32 is the pre-heaven of Hexagram 23 mentioned in Figure 3.

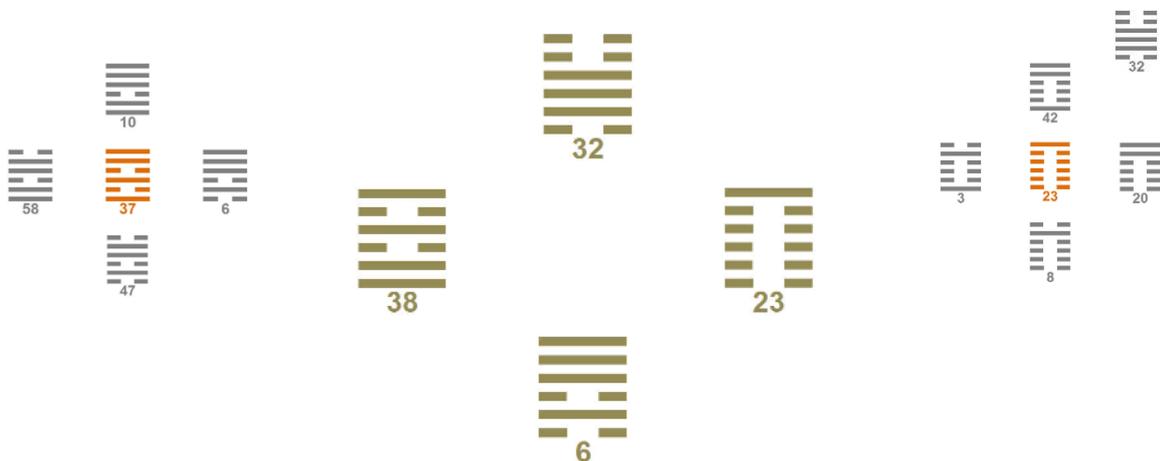


Figure 4 The pre-heaven family 32, 23, 6, 38 and its connections

The "silent" hexagrams 32, 15, 6, 3 are also connected within the pre-heaven family 42, 15, 5, 49. Hexagram 42 is the opposite of hexagram 32. Hexagram 5 is the reverse of hexagram 6. Hexagram 49 is the reverse of hexagram 50 which is the opposite of hexagram 3.

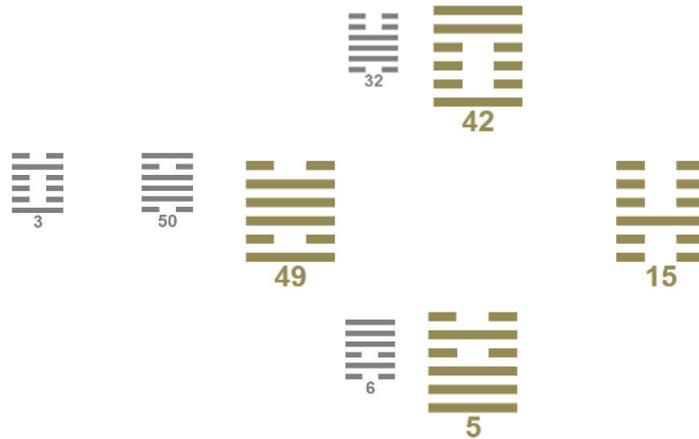


Figure 5 The pre-heaven family 42, 15, 5,49 and its connections

The "silent" hexagrams 62 and 30 belong to the same nuclear family, and the predominant hexagram 59 is the opposite of hexagram 55. Moreover hexagram 56 is the opposite of hexagram 60 reversed from hexagram 59.

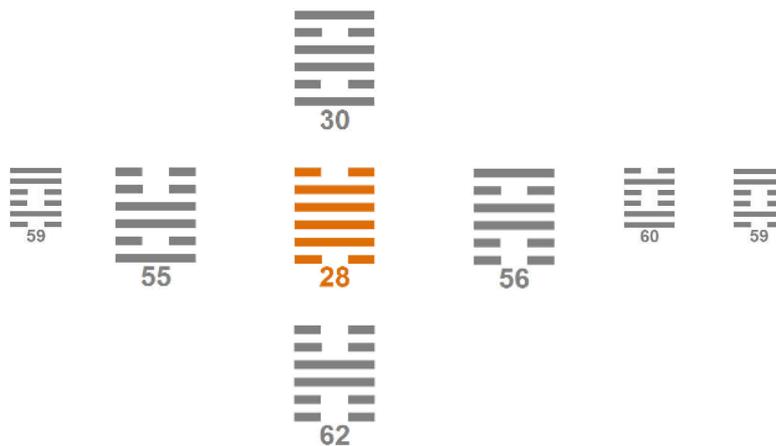


Figure 6 the nuclear family hexagram 28 and its connections between the predominant and "silent" hexagrams

These "discrete connections" will be treated systematically in the final report. They are discussed here to highlight the consistency of the prints revealed by the pre-heaven families.

Sincerely

Gabriel