

Assuredly all the gods are august and beautiful in a beauty beyond our speech.
And what makes them so? Intellect; and especially intellect operating
within them (the divine sun and stars) to visibility.

Plotinus: Treatise on Intellectual Beauty, V, 8.

Russell
H. W. P. 219

I do not doubt that the orbs and the systems of orbs play their swift sports
through the air on purpose.

Wall Whitman: Assurances.

When now, our wiser modern men relate,
Revolves a ball of flame without a soul,
Once Helios in tranquil pomp of state
Drove o'er the sky his chariot of gold.

Schiller: The Gods of Greece.

Heaven looks from the angles from which my people look, Heaven hears
what my people hear.

Mencius: V A. 5.

To know the actions of Heaven is to be Heaven and alive.

Chuang Chou: VI.

'What,' it will be questioned, 'when the sun rises, do you not see a round disc of
fire somewhat like a guinea?' 'O no, no, I see an innumerable company
of the heavenly host crying, "Holy, Holy, Holy is the Lord God Almighty!"'
Blake: Descriptive Catalogue.

The stars are not pulled this way & that by mechanical forces; there is a free
motion. They go their way, as the ancients said, like the blessed gods.

Hegel: Werke (1842) Bd III, I, § 97.

It was his wisdom made you need the Sun Prize it now you have it, at
that rate, & you shall be a grateful creature: Nay, you shall be a Divine &
Heavenly person. For they in Heaven do prize blessings when they have them.
They in Earth when they have them prize them not, they in Hell prize them when
they have them not.

Trakema: Centuries of Meditations I, 46

The true aristocrat is a man who has passed all the relationships & has met the sun, & the
sun is with him as a diadem. Caesar was like this. He passed through the great relationships,
with nobles, & came to the sun. And he became a sun-man. But he was too unconscious.

D. H. Lawrence: From Essays on Voltaire: Reflections on the Death of a Poet

Born from the energy of the world, the love
that keeps the golden sun in his place above,
And the heart of the world, the heart of the world,
Without which the sun, the plants, & all living beings
And warmth in the myriad parts of the earth would fall.

not without qualification true to say that the sun is the center of the world.

1. Observation: While listening to the voice and the system of the play their voice of

There was, we were told, a small
house in the village of
St. John's, where the
people of the
village were
said to be
very kind.

Heaven tastes from its angel form which my people taste, Heaven has what my people have.

Moslems : V.A.S.

(29.10)

To know the volume of Heaven is to be Heaven and alive.

~~Trachurus~~ wrote:

One that made infinite would all exclude,
An earth made infinite could never be viewed.
But we being fashioned for the other's sake,
He bounding all, did all most useful make.

The paradox is that social beings
~~are~~ ^{are} free transcend their
limitations in so far as they know
them.

W. M. Dixon
H.S.

There is in self-consciousness a principle of growth, whereby the self-conscious subject individual is always greater than the previous. For example, the self-conscious Earth of the previous chapter has already the Solar system, implicitly, ^{in its} remembrance. For to know Earth is to be where it is Earth in her companions. As Tashere says: - "In the planetary society, Earth grows, not by ~~self-generation~~ ^{assimilation}, but by attempting, ~~infinite~~ ^{infinite} as ~~one~~ Earth, but by ~~being~~ ^{assimilating} asserting them - for they can only be discovered in so far as she inhabits them."

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CHAPTER IX

THE DISTANT VIEW: ~~STAR~~ SUN

1. Growing myself observing EARTH



What ~~is~~ it? ~~All depends on range.~~ The observer who stands sufficiently far back from me says I am EARTH. But who is this observer, in reality?

He is a part of myself — a section that I have detached from the main body & sent on ahead, to look back at the rest of me & tell me what ~~from I take~~ ^{from I take} over there. I am, then, not one but two: the one who goes on to observe, & the other who stays ~~where it is~~ ^{behind} to be observed. But this means that I am ~~not~~ looking at ^{only} a part of myself. For all I know, the section which remained behind may be insignificant compared with the one that came away.

To find out, of course, ~~the advanced section comes~~ ^{the central body} ~~in turn,~~ ^{even further} I detach another portion of ~~myself~~ ^{the central body} & send it ~~on~~ ^{ahead} to look back & report on both sections of myself; but, again, the report would only cover that part of the subject-matter which remained behind to be reported upon. It looks, in fact, as if I could never really see myself, because there is always more to me than I can ever know. ^{partly unconscious of myself.} It is my nature to be ~~more than I know myself to be.~~ ^{getting further & further} ~~from myself, yet nearer & nearer~~ ^{about myself,} the whole truth, but I can never arrive. It was Trenchard who wrote: "I am already more than Earth."

When I see myself ~~to be~~ ^{as} EARTH, that is to say: I am in my EARTH region looking towards the centre of all my regions. Now who & what is this me that looks inward?

A day figure, or myth, or mere logical construction? I think not: the one half of me, I believe, as real & as concrete as the other. What concrete ~~aspects~~ ^{beingness}, then, am I in a position to observe me as EARTH? The Sun, & the Planets. These I am. When I realise myself as EARTH, I am already, unconsciously, less companions. I observe the Sun as Sun because I am in his Sun region; he observes me as EARTH, because he is in my EARTH region; I observe myself as EARTH because I take up the Sun's point of view; I see myself as he sees me, & so, to that extent, become him. Similarly with the Planets — I put myself in ~~their~~ ^{their} places, to see myself. ~~as the other fellow-Planets, or, as doing.~~ ^{as the other fellow-Planets, or, as doing.}

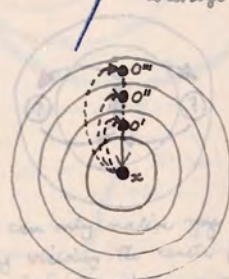
Thus it turns out that, when I contemplate myself as EARTH I am really much more than EARTH. I am the Solar System. As Descartes puts it: "the idea of the sun will be the sun itself existing in the mind." *

* Reply to objection Philosophical Works (Trams. E.S. Haldane & G.R.T. Ross) ii, p. 10. ^{made perfect} ~~Descartes, it is true, goes on (mistakenly, as I believe) to speak of another mode of~~ ^{the mind being, namely in the sky.}

60p 11

It is noteworthy that the appearance of the Earth, ~~as the planets the Sun, etc., from other~~ ^{as the planets the Sun, etc., from other} ~~planets is of sufficient popular interest for the magazine LIFE to devote an article,~~ ^{with elaborate coloured illustrations, to the subject.} ~~Millions of people enjoy the view from~~ ^{satellites: thus it is not without qualification true to say that the Sun is unimpaired.}

He, from his small, particular orbit flies with blest outlooking! From himself he flies, stands in the sun & with no partial gaze views all creation. — Coleridge: Religious Musings



Observer O' observes me at x but leaves O' out of the picture. O' corrects this ~~too~~ ^{but} leaves O' out, & so on indefinitely.

A point which has been ~~discussed~~ ^{discussed} in the books of J.W. Dunne. See, for example, The Serial Universe, p. 32ff.



Who is in a position to appreciate EARTH as such?



The other members of the Solar System.



EARTH, Sun, & Saturn overlap in such a way that the centre of EARTH's region coincides with the circumference of the other's regions, & ~~the circumference~~ ^{the circumference} of EARTH's region coincides with the centres of them. EARTH lies at the centre looking out, (a, a) & at the circumference looking in (b, b)

This self-transcendence is not peculiar to ^{my} EARTH level, ~~at any level of~~ myself. For instance, when I am addressing a number of people, I am self-conscious: I am divided between speaker & audience, I borrow their ears & eyes.

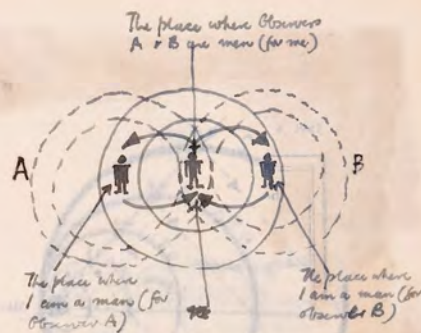
Common sense points out that ~~but~~ when the audience has gone & I am left alone, I am still self-conscious (though perhaps less so). Whose senses am I using now to observe myself as a man? Do ~~the~~ walls have ears, & are there in the ceiling eyes for my use? If not, if (in fact) I can know myself with the ears & eyes of imaginary observers, or without any external aid whatever, then there is no need to impute powers of observation to things around me — except where such powers are obviously present. In particular, there is no need to impute them to the Sun & the rest of the Planets.

If I were to intrude into the self-consciousness of the animal living ~~here~~ I was alone, life would be an odd business. I am a social creature — all the time. I owe my manhood to ^{the observation of} men, but to no particular set of observers & to no particular lines of observation: the only condition is that ~~there shall be some~~ ^{at some time} observers of my own level whose point of view I can take up, ^{in order to} ~~recognise~~ ^{recognise} myself as belonging to the same level. I am well able to supply the continuity their awareness of me lacks. So it is at every higher level of myself. For awareness of myself as MAN, I need other Species, of myself as LIFE, other 'Spheres', of myself as EARTH, other members of the Solar System. To be conscious of my EARTH-hood is to ^{become} ~~be~~ the Solar System. Thus each ~~level~~ ^{order} contains ^{the seeds of the next} indications by which it is superseded & the next level takes over: a study of the lower level reveals the existence of, & the necessity for, the higher level. ~~As a result,~~ the observer does not simply pass on to the remote region ~~he is desirous~~ & the wider view: he is ~~driven~~ ^{driven} onwards & outwards by the contradictions & incompleteness of the object he is studying. He is forced to go on from the region where I appear as EARTH, to the region where I ^{appear as} ~~am~~ the Solar System. "Neither things nor thoughts ^{can be treated as} ~~are~~ ^{They are essentially parts of a whole, or} self-identical, or independent, but parts of a whole, or stages in a process, ^{as such they} ~~carry us beyond themselves, the moment we~~ ^{carry us beyond themselves, the moment we} clearly understand them."

2. The Sun as an organ of my life.

I need the Sun. ^{Lacking it,} My incompleteness as a physical object is even more obvious than my incompleteness as a self-conscious subject: I need the Sun to make me whole. + I must link my wagon to a Star: till I do so there is neither wagon nor waggoner.

Consider a cell in my hand. How is this little body sustained? It lives on me the man, on my life's blood. And I feed on MAN: it is his H's



I can only realise my manhood by viewing the centre from the region where I am a man.



I can only realise each aspect of myself by assuming the position which brings out the aspect.



I see myself as EARTH by putting myself in the place of the Sun & the Planets.

• Edward Caird, Hegel, p. 137.

As male & female
+ ~~as~~ ^{as} ~~male~~ ^{male} ~~female~~ ^{female} ~~organs~~ ^{organs} ~~the~~ ^{the} ~~male~~ ^{male} ~~female~~ ^{female} ~~make~~ ^{make} ~~nurse~~ ^{nurse} ~~without~~ ^{without} ~~the~~ ^{the} ~~female~~ ^{female} ~~as~~ ^{as} ~~the~~ ^{the} ~~brain~~ ^{brain} ~~does~~ ^{does} ~~not~~ ^{not} ~~make~~ ^{make} ~~nurse~~ ^{nurse} ~~without~~ ^{without} ~~MAN~~ ^{MAN} ~~as~~ ^{as} ~~his~~ ^{his} ~~digestive~~ ^{digestive} ~~apparatus~~ ^{apparatus} ~~without~~ ^{without} ~~LIFE~~ ^{LIFE} ~~or~~ ^{or} ~~his~~ ^{his} ~~muscular-skeletal~~ ^{muscular-skeletal} ~~apparatus~~ ^{apparatus} ~~without~~ ^{without} ~~EARTH~~ ^{EARTH} ~~so~~ ^{so} ~~his~~ ^{his} ~~eye~~ ^{eye} ~~(to~~ ^{(to} ~~mention~~ ^{mention} ~~only~~ ^{only} ~~a~~ ^a ~~direct~~ ^{direct} ~~&~~ [&] ~~obvious~~ ^{obvious} ~~case)~~ ^{case)} ~~does~~ ^{does} ~~not~~ ^{not} ~~make~~ ^{make} ~~nurse~~ ^{nurse} ~~without~~ ^{without} ~~the~~ ^{the} ~~SUN~~ ^{SUN}.

body that I find on my dinner plate — substances that ^{MAN} has taken in, digested in a hundred organs & made a true part of himself. ^{MAN} feeds on LIFE, on the plants & animals which are organs of LIFE's body. LIFE feeds on EARTH: EARTH's carbon dioxide, & water, & oxygen, nitrogen, & many other substances, together with the radiation that EARTH has digested & so incorporated, go to make up the meal. Finally, EARTH feeds on the Sun: her material, derived in the beginning from the Sun, & ever since, she has been ^{radiation} ~~unceasingly~~ conditioned by the ~~energy~~ ^{which planetary processes —} that the Sun pours into her. The ~~bulk of the energy~~ ^{means of the} that goes to the maintenance of the ^{planet's} life — winds, ocean currents, rain, rivers, hydroelectric plants, as well as that most important of ~~all~~ solar engines the green leaf — all are kept going by solar radiation. Directly & indirectly, the Sun is the source of all terrestrial energies.

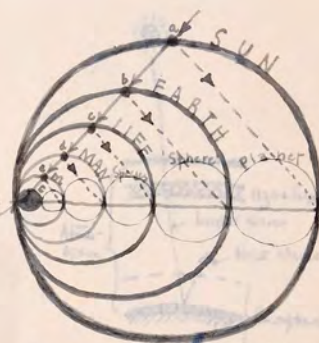
In effect, then, the cell in my hand is feeding on the Sun. Presently I shall ~~will set down~~ ^{set down} to a Sun-meal — because it is impossible to eat anything else. ~~Let me~~ ^{briefly} ~~briefly~~ ^{briefly} the preparation of this meal. ~~That is to say, let~~ ^{me} ~~me~~ ^{glance at} a typical sequence in the physiological processes of my ^{quail's} body.

The story begins in the Sun's interior, where the temperature is many millions of degrees. It is believed that matter is being built up here, that hydrogen atoms are combining in fours to become helium atoms, & possibly higher elements also are being synthesized. At any rate great energy, atomic in origin, is set free. This energy is 'processed' by several Sun-layers (including that known as the reversing layer, which absorbs light of certain wavelengths) before setting out on its ninety-three million mile journey to EARTH.

So far as EARTH is ~~concerned~~ ^{directly} interested, the solar radiation is ^{practically} like a billiard cue, with EARTH at the small end of it. ^{practically} This is ~~in fact~~ ^{the} 'alimentary canal' of my quail body. The fact that it is invisible (so the source of ^{visibility}) hides the fact that I am no more detached from the Sun than my stomach is detached from my mouth: EARTH & Sun are joined as ^{more effectively than} ~~loosely~~ ^{as if} a ~~metast~~ ^{metast} linked them. It is ~~nothing~~ ^{nothing} and ~~extraordinary~~ ^{extraordinary} arrangement. To describe it in ~~still~~ ^{another} set of terms: my domestic economy consists of a blazing kitchen fire, a little round dining table, & between them a corridor in which service proceeds at 186,000 miles a second — & all three ^{are} ~~are~~ ^{carreering} ~~carreering~~ ^{carreering} through the Universe as a unit.

The light that arrives in the region of EARTH, some eight minutes after

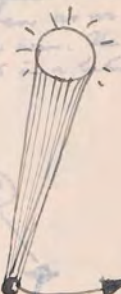
cf. Plato: Symposium 190, where the male is associated with the sun & the female with the earth. & Bachofen (Das Mutterrecht) finds the struggle between the masculine & feminine principle, with the feminine being one, enacted in man.



The process of 'digestion' in the SUN, from the point of view of a cell in me. At each stage a, b, c, d, e, there is (i) 'feeding' on the higher whole (f) (ii) breaking up — analysis of the food, with rejection of 'waste' (g) & (iii) the 'feeding' of the part or organ (h).

The idea is vividly expressed in the Egyptian sun-disc, whose rays end in hands, & in the famous Hymn to the Aten, composed, perhaps, by the Pharaoh Akhnaton himself.

* Alternatively, solar radiation may be produced by the annihilation of matter in the Sun's interior. See Jeans: *Universe*, p. 88 ff., Eddington: *Expanding Universe*, p. 54 ff., H. Spencer Jones: *Life on Other Worlds*, p. 239 ff., for three different views.



* All this is psychologically important. According to Jung, the sun, furnished with a hanging tube which is the source of its earth's winds, or a penis, is an archetypal idea, a product of the racial unconscious that crops up, for instance, in the insane, & in ancient mythology. One version appears in medieval pictures of the Immaculate Conception, where a tube (down which the Holy Ghost flows in the form of a dove) reaches from heaven to beneath Mary's robe. Contributions to Analytical Psychology (London, 1928), pp. 108, 109.

having left the Sun, is already a pre-digested product, but it is still unfit for LIFE's consumption. It must ^{first} pass through the Ozone Layer to remove a part of the ultra-violet light, & be filtered ~~by~~ & diffused by the fine dust & water vapour of the Atmosphere. Thus the light which falls on LIFE is not really the Sun's, but EARTH's: sunlight already inside EARTH, transformed by ^{trapped by EARTH & input turned into heat waves, radiation.} EARTH, ^{becomes - in actuality -} EARTH. Sun has to become EARTH to become LIFE. LIFE can no more feed direct on the Sun than I can eat handfuls of soil. The digestive sequence is Sun, EARTH, & LIFE, MAN, ~~man~~, & cell.

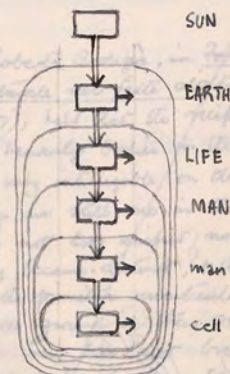
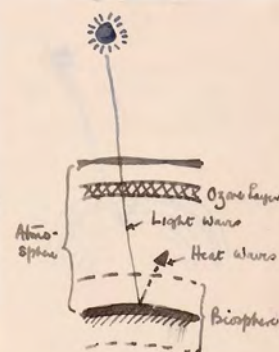
As EARTH traps solar energy, so (but in a very different fashion) LIFE traps the solar energy that EARTH has made her own. The green leaves of plants absorb light, using its energy in the synthesis of the complex particles ^{of the bulk of the cells} of which all living things consist. These ^{particles} ~~substances~~ are, so to speak, accumulators that fix energy in ~~so~~ ^{such} a manner that it can be drawn upon whenever it is wanted.

MAN carries the same process one stage further, ^{digesting} ~~trapping~~ & processing ^{LIFE'S} plant tissues - & the animal tissues derived from them - so that he always has ready a stock of prepared food (including coal, timber, cotton, & jute, no less than corn & beef) upon which to draw. ~~At this point~~ ^{next,} man does his part. My exterior organs - larder, kitchen, & dining room - & my interior organs - teeth, salivary glands, stomach, & intestines - perform the same twin functions: processing or digesting the raw material received from the higher level, & holding a stock of it in readiness for use. ~~Finally, my cells~~ ^{assimilation} On this final product my cell feeds. For my cell, this is where ^{feeding} ~~digestion~~ begins - all the rest was merely external preparation. ^{But,} for my ^{own} solar body, the entire process, from the Sun's centre to the cell in my hand, is ~~an~~ ^{my} internal: it is a natural, indivisible, inseparable train of physiological events, & to think of ^{me or} any ^{cell & mine} living creature ^{apart} from it is to think of a helpless & more or less meaningless fragment.

3 The SUN.

5 EARTH as inside the Sun

~~Let it be agreed that~~ ^{for self-consciousness, for life, even for existence,} EARTH needs the Sun. It does not therefore follow that the Sun stands above EARTH in the Hierarchy of wholes & parts. Quite evidently, the Sun does not include EARTH, or LIFE, or MAN. It is ^(in the meaning of Chapter II) ~~its~~ ^{own} extension organ, but it does not surround & incorporate EARTH as LIFE surrounds & incorporates MAN, & as MAN surrounds & incorporates a man.



At each stage something is rejected, something is stored, & something is handed down to the level beneath.

The practice of saying 'God' before meals recognizes the fact (which our civilization seems designed to hide) that all things, ^{which do} come down to us from Heaven, from ^{higher} aspects of our being. We are mostly ^{as} ~~incapable~~ ^{of awareness of all} dead to all levels above man as we are alive to those beneath him. The consequences will be noticed in a later chapter.



~~in mind - out - the hot aim has become the cold but & the cold but has become~~
~~the hot aim -~~

Now all depends upon the meaning of the term Sun. First, there is the original & solitary Star; second, there is the same Star, differentiated or developed into a system of Planets or ~~nothing~~ about a nucleus; third, there ~~the~~ is the nucleus which, though it still retains the title of Sun, is now only an organ or member of the totality. To distinguish these meanings sufficiently, I propose to refer to the first two as the SUN (seeing that the whole Star is involved — whether in its primitive or ^{in its} grown-up state will be plain from the context) & to the third as the Sun (seeing that it is but a part of the SUN). I do not use the term Solar System for the second meaning, because it does not do justice to the fact that, so far from the SUN having been broken-up into a mere system by its loss of the planetary material, it has been further integrated. At any rate, that is the view which I am putting forward in this chapter.

~~The~~^{The} unit or individual which, in the hierarchy of wholes & parts, stands above EARTH is, then, the SUN — that great body of which EARTH is an organ. Briefly, what is the structure of this body?

Only one twentieth of one per cent of the SUN's mass is in the Planets; the remaining 99 $\frac{6}{7}$ per cent is in the ~~Sun~~ ^{central body}. Around this great nucleus, held in by its gravitational pull, swing the nine Planets of Mercury, Venus, EARTH, Mars, Jupiter, Saturn, Uranus, Neptune, & Pluto, with (between Mars & Jupiter) the Asteroids, which are thought to be the fragments of a fourth Planet. ~~Not only are these circulating the Sun, but they are very widely spaced,~~ ^{the Planets} like the above, the ~~Sun~~ ^{central body} is practically empty. (If a model were made in which the ~~Sun~~ ^{central body} were the size of a bar-barrel, Pluto, the outermost planet, would be two miles away; & the size of a pea, EARTH, ^{a bigger sphere as a pea}, would circulate at a radius of 93 yards, & the remaining planets, ranging in size from an orange (Jupiter & Saturn) to a speck of dust (the smaller Asteroids), ~~are scattered in the intervening spaces.~~ ^{would be circulate at a radius of 200} All these travel round the ~~Sun~~ ^{nucleus} in the same direction in nearly circular orbits, but at ~~different~~ ^{very} speeds & ~~thus~~ ^{Mercury's} Mercury's ^{for instance,} is 88 of our days, Pluto's about 250 of our years. In addition to the Planets, ~~there are~~ ^{there are these} comets & meteors, ~~with peculiar orbits,~~ ^{some} dust particles, & even stray atoms, all of them revolving round the ~~Sun~~ ^{central nucleus} & therefore to be reckoned members of the SUN.



The relative sizes of the Planets

• Roberto Ardigo, in Formazione
naturale nel fatto sistema solare,
(1877), held that the reciprocal action
of heavenly bodies in the Solar System
is only intelligible on the theory that
they are still one in the Sun. They
are not less unified now than before
they became distinct, & the existence
of the primitive unarticulated Sun
is the ground of their cohesiveness.
The Sun has not broken up,
but unfolded like a flower. See
Höffding: Modern Philosophers, p. 45, 96



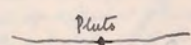
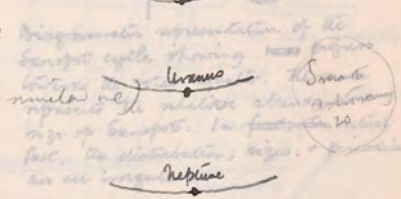
JUPITER

SATURN

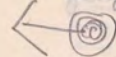
The relative distances of the Planets from the Sun.

Spencer Jones ✓
Gen. Ast. p201 c

That the Planets were at one time contained in the original SUN is suggested, not only by the fact that they ^{all revolve around the sun} ~~are~~ in the same direction, but also by the fact that their orbits are, with minor exceptions, in practically the same plane, ~~which is the plane of the Sun's own rotation.~~ ^{does not even matter:} How the Planets left the parent body is a question that belongs to a later chapter: ^(in all probability) ~~here~~ it is enough to note that they did so, & that the process (or a similar one) ^{of this moon.} seems to have been continued in respect of the Planets. As the SUN developed by differentiating into ^{primary} nuclear & planetary bodies, so the planetary bodies themselves differentiated into secondary nuclear & planetary bodies. The Planets' moons represent a ^{second} ~~first~~ stage of the growing-up of the SUN.



The relative distances of the outer Planets, to $\frac{1}{10}$ the scale of the diagram for the inner Planets.



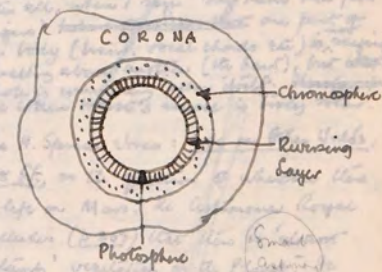
About the structure of the ^{central body} ~~Sun~~ itself a surprising amount is known, considering the natural difficulties of investigation. The heat & the pressure of the interior are ~~thought to be~~ ^{as many} ~~so extreme~~ ^{millions of degrees} — ~~temperatures of~~ ^{as suggested} — that atoms here have lost their circulating electrons, & exist only in the ionized state. The enormous output of solar energy is believed to be due, a by-product, of the building up of atoms of Helium out of atoms of Hydrogen, & perhaps also to the synthesis of more complex atoms. However generated, the flood of energy coming from the core, has to make its way through various ^{cooling} ~~cooler~~ & more tenuous upper strata of incandescent gases, & becomes transformed in the process. There are distinguished the Photosphere, which is the brilliant visible surface & the source of the Sun's continuous spectrum, the Revering Layer which, absorbing light of various wave-lengths as it comes from the Photosphere, reveals its own constitution, & the much more extensive Chromosphere, which consists of mainly of the light gases Hydrogen & Helium, & of Calcium. Finally, deepest, coolest, & most rarified of all, is the Corona, which is visible only during a total solar eclipse.

See 219.
Eddington: Stars & Atmos.

Some authorities suggest that the solar energy is derived from the annihilation of atoms, but this view has lost ground.



The Corona as seen during a total eclipse. It is invisible.



The solar layers — not to scale.

There is much disagreement about what is actually going on in the core of the Sun, but at least it is certain that there is about 100,000 deep in this Planet, but at least it is certain that there is a central production of energy, with radial transmission through various strata that digest or condense it before it starts off as its journey to the Planets. That this process is accompanied by ^{large-scale movements} ~~intense & complex~~ activity is shown by the behaviour of the Photosphere's granulations.

It is in a little known way to estimate the probability that when Planets in the Theory of the Universe, the natural laws which inhabit the Planets of the SUN.

As to the famous 'canals' of Mars, which have been mentioned by many astronomers as 'artificial' structures. Recently, however, photography combining hundreds of plates, as well as direct observation, has found these 'canals' to be the result of optical illusions.

(consisting, probably, of ^{hotter} material rising from lower levels), faculae (or loch-like hot clouds), & sunspots. These ~~continuous~~ ^{last} objects tend to shift near the solar poles & move towards the equator as they approach. They are depressions of relatively low temperature, & as much as 1800 miles deep. They grow in clusters, & after a time disappear, appearing & disappearing ^{each of which} which go through a fairly constant life history, & the whole system of sunspots goes through an eleven-year cycle. As this cycle progresses, the spots tend to move from the solar poles towards the equator; the start of a fresh cycle is marked by a new outbreak in higher latitudes. As to the origin of sunspots little is known: they are as a rule ^{connected} ~~attributed~~ to convection currents of gases beneath the Photosphere.

Second, then, in briefest outline, is the structure of this new order of individual, the SUN. To one sort of observer, of course, the SUN does not exist as a whole: there is only the Sun, with a few points of light twinkling about it at great distances. But to an observer whose line-of-grasp is enlarged to ^{match} ~~keep pace with~~ his grasp of space, the points ~~which~~ appear as rings, just as the ignited end of a piece of string, when whirled round & round, becomes a circle of flame. If ^{such a} ~~now this~~ observer, ^{having seen (or truly seen)} ~~seeing~~ the ~~corrected~~ Planets no longer as globes but as rings, goes on to realize that each planetary ring is joined to the centre by a disc of solar energy, he will appreciate the wholeness of his object. For him the SUN will be a bright nucleus, ^{propagating a diminishing} ~~sending out~~ a flood of energy ~~that diminished~~ as it spreads throughout the sphere ~~at which~~ is bisected by the Planetary Disc. To this disc are added, at various angles, the elliptical orbits of the Comets. The whole would appear very much like one of Bohr's models of a complex atom.

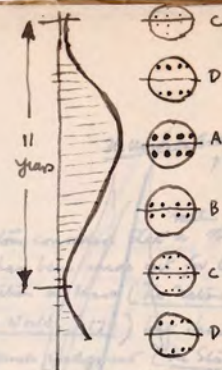
And this whole lives as a whole. EARTH is not the living organ of a dead body, but derives her life from the SUN. What she does the SUN does.

4 The life of the SUN

In what sense, & in what manner, does the SUN live?

First, there arises the question of whether any of the Planets, besides EARTH, supports life. Mars is ~~a~~ rather cold, ~~planet~~ & its rare atmosphere contains little moisture & little, if any, oxygen. Nevertheless conditions are not such as to rule out all possibilities of vegetable life.

Second ^{of life} We are in a better position ^{now} to estimate the probabilities ^{than} when Kant, in his *Theorie des Himmels* (1755), ^{with some confidence} gave details of the rational beings who inhabit the Planets of the SUN.



Diagrammatic representation of the sunspot cycle showing ~~more~~ progress towards the solar equator. The curve represents the relative abundance & size of sunspots. In fact, the actual fact, the distribution, sizes, & periodicity are all irregular.

* Dr. Charles Abbott, of the Smithsonian Institution, is the best-known authority on sunspots & their climatic effects. For details, see the Annual Reports of the Institution, also E. Huntington: *Earth & Sun*. Abbott views that "major changes in the weather are due to short period changes in the sun" is not accepted, however, by most meteorologists.



Imagining the comet, whose orbit cut across the Planetary Disc in all directions, this is then shape of the SUN - not to scale, of course.

* Thus ~~as~~ a signpost on another star (or rather another star, having for organ such a scientist) listening-in to ~~the~~ the SUN & happening to hear Gustav Holst's *The Planets*, would be ⁱⁿ ~~in~~ ^{truly} ~~truly~~ justified in inferring ~~that~~ the music to the SUN as a whole - describing his organs as I might describe mine. After all, when I say 'my hand has five fingers' ~~that means~~ ^{that one part of} my body (brain, vocal chords etc.) is saying something about another (its hand), but ~~that~~ ^{the} whole is commenting upon itself. ~~Hence~~ ^{Hence} ~~the~~ ^{the} same token Holst's music is truly solar.

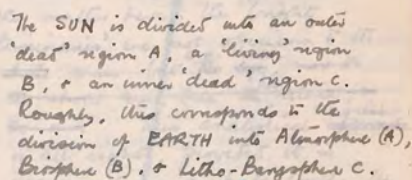
* See H. Spencer Jones: *Life on Other Worlds*, p. 178 ff., on the question of whether there is life on Mars. The Astronomer Royal concludes (p. 207) that there is 'almost certainly' vegetation on the Planet. He considers (p. 170) that life has probably not yet appeared on Venus, but may do so as conditions become more favourable.

Arboreus
LOU
155

The Universal Axiom (1943)
p. 269, 275.

Edgington concludes that a 'strong
case' has been made out for the presence
of vegetation on Mars (The Nature of its
Physical World, p.172) but Jeans prefers
to suspend judgement. He states in
their Course, p.60. 'See also Lowell's
Mars as the Records of Life: his
interpretation of the Martian markings
as canals is not nowadays accepted.
xJeans: Universe around Us (1943), p.270.

o Cf. Huyghem's ~~statement~~ that this is probably no more difference between the inhabitants of different planets than between the inhabitants of the Earth. He adds: "There are on the earth, men of cold temperament, who would thrive on Saturn, which is the furthest planet from the sun, & there are other spirits warm & ardent enough to live in Venus."
(Cosmotheoros, seu de Terris celestibus).
* Universe around Us. p 375.



• Burgeon - ~~it can only be a wild guess,~~
of course - goes so far as to write:
'it is probable that life animals all
the planets revolving round all the
stars', but the life is of many
sorts. (Morality & Religion, p. 19.)

Here are, ^{it is true,} however, a number of mysticisms
regarding the Planets. Jupiter, for
instance, has a very complex atmosphere,
with ^{numerous} colored belts & spots which
vary ^{greatly} & more relatively to ^{the} other.

It is not inconceivable that such
a Planet is living as a whole, but its
micro life must (if it exists) be so
different from ^{the} terrestrial ^{kind} as to
make the word 'life' ~~a~~ ^a misnomer.
surrounding ^{incomprehensible}

done
L.E.W.

This question will not do. It assumes that EARTH is alive in her own right. To pick out from the Planetary Disc one belt (no doubt the most interesting belt) + say of it: here, & here alone, are the chemical & the thermal conditions of life, & to neglect all the rest, however essential for the maintenance of those peculiar ^{local} conditions, as dead, is quite arbitrary. It is the error, which I have already come up against (at MAN-level & EARTH-level particularly) of imagining that a

Elsewhere he regards it as probable that life goes on in other planets, in forms of which we have no idea. (Creative Evolution, p 269.)

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① How do I think of myself at man-level? I look, for my significance, to what I am as an adult, rather than as a baby or a foetus. How should I think of myself at SUN-level? Should I look to what I am as a grown-up ^{Star} rather than as a foetal or undeveloped ^{though} ~~SUN~~? If not, if I ought still to look upon the SUN as of he had not wakened to life & mind, then, I ought to look upon myself & other men as aged & deformed foetuses, or overgrown cell-cultures, or ambient molecules, incapable of any Science. Whatever the motives of the ^{Star-brother} man who sees one aspect of himself in terms of its highest & latest manifestations, & all others in terms of their lowest & earliest manifestations, those motives are not scientific. It is all right, like the seedman, to deal only in seeds, or, like the florist, to deal only in flowers, though it is better, like the gardener, to deal in both. But to deny some ~~seeds~~ ^{flowers} their flowers, & some flowers their seeds, is plain bad business.

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relevant;
Herbert Read.
- The Herbert Read Version of the Stapfer
place of our being. Read's Version. True

+ Milton's conception of the relation of man to stars is worth noting:
"When universal learning has once
completed its cycle, the spirit of
man, no longer confined within this
dark prison-house, will reach out
far & wide, till it fills the whole world
& the space far beyond with the
effluvia of its divine greatness.
..... He will indeed seem to be one
whose rule & dominion the stars obey,
to whose command earth & sea
hearken, & whose words & commands
sway; to whom, lastly, Mother
Nature herself has surrendered, as
if indeed true god had abdicated
the throne of the world & entrusted its
rights, laws, & administration to him
as governor." Producciones Gatorias.

* 'It is true,' says Thackeray, -
True, 'I ~~was~~ never assisted
the sun materially in his rising;
but, doubt not, it was of the
last importance only to be present
at it.' (Weldon: 'Economy')

p16

Again, it is possible that the successive
advances & retreats of the ice mantle
(which affected the evolution of life so profoundly)
was due to rhythms of solar energy.

Full: EN 17 E 109

+ Particularly prominent among
the Scientists who freely admit
that analysis is not the only road
to truth are ^{noted} Cans, Edington,
R.A. Sampson. The last writes:
"This process of dissection of the
Sun) might well give us pause,
for how do we know that in the
course of it something may not
take flight, like the life from
a living thing; that we shall not
succeed in pulling back into it
again." (*The Sun*, p. 4.)

Saurat &

o And it is only because I have my
Star - the SON - behind me, at my
back, that I do, in fact, see my
Star-companions. As Browne says:
"were it not for darkness & the shadows
of the earth, the noblest part of the
creation had remained unseen, & the
stars in heaven invisible as on the fourth
day." (Garden of Cyrus, IV, 27.) ~~This~~
~~apparently this passage of Browne's which~~
Blanca Alill's famous sonnet "Night
& Death" is a development of Browne's
idea. ~~this idea.~~

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inus (beings) is animal or sensual, human or reasoning, & superhuman: by virtue of the last a man thinks
 to be higher intelligence, with a more elevated intellect, regarding himself no longer as a man, but as one
 altogether changed, & has brought himself into the higher region.
 centuries before Columbus, the writers of the Book of Enoch transgraphed
^{fundamental but} ~~expressing~~ ^{it was} expressing them after their own fashion when they wrote
 that the Stars themselves ~~thought~~ - the angelic Watchers of

Several centuries before Columbus, the writers of the Book of Enoch

+ VIII, 0 IX, 6, • LXXXVIII, 3. See also Genesis VI, 2.

I say that 'I think'. This is true in the same sense as 'I describe an orbit round the Sun' is true. All depends on what is meant by 'I'. The only 'I' that thinks Earth's thoughts & performs Earth's actions is EARTH'S 'I' — ~~which~~ I do not hesitate to use this 'I' — & rightly, because it is mine. What I forget is the universal & elastic nature of the 'I': I make it as narrow as a man's mind that I perform cartwheels in space, but I do not realise that it is not as a man's mind that I am aware of this motion. (6)

Organ of solar thought, or the physical basis of mind in the SUN. It is only a small fragment of that basis. Can a disembodied brain perceive & think? And, if the whole man is ^(in some way) involved in mental functioning*, so, by the same token, is the whole MAN, the whole LIFE, the whole EARTH, & the whole SUN. The ^{entire} body is the indispensable condition of the fullest sensation & the most rudimentary thought. Of course the ~~human~~ brain is little, vulnerable, EARTH-bound — what else should it be? Huge ~~and~~ independent of Planetary support, self-propelling? This also it is: EARTH is the brain of the SUN. Of course, the human brain needs a delicately balanced environment, just the right stimuli, nourishment, temperature, & ~~that~~ — but how does common sense support what is this but the part's multiple need of every other part of the whole? It is the vulnerability of the little human brain, & its utter dependence upon ^{so many} solar organs, that makes it off as solar. It is only of a Earth that ^(in a manner of speaking) obliges it to grow to solar dimensions & it is to exist at all. Its weakness is its strength. But to single out one organ & say of it: here is the seat of consciousness, will not do. Each part, bulky or tiny, fiercely hot or fiercely cold, ^{disobedient} makes its contribution & demands the contribution of the others. Nothing less than the SUN's body is the physical counterpart of the SUN's mind.

Is this interpretation too flattering to man? I do not think so. What it gives with one hand it takes away with the other. ^{It is true; it} ~~it~~ expands him by compliments ^{man} upon the ~~total~~ status of his thinking, but it goes on to explain that the thinking is not his in any ordinary sense. No man can, as man, lay claim to his thoughts. Thinking ^{belongs to} many levels happens in & through him, but the thinker of MAN's thoughts is MAN, of LIFE's LIFE, of SUN's the SUN. When a man ~~then~~ looks at things from the solar point of view he is the SUN. ^{of many levels,} There is one mind, ~~of the SUN,~~ but it is many-levelled, and, though it is man's nature to identify himself with one level after another, the levels themselves are sharply distinguished. ^{through in no sense} There is one Psychology of the SUN, but within it ~~is contained~~ it embraces EARTH-psychology, & ^{man's} psychology, & ~~the~~ psychology of ^{each of} the other levels that the SUN contains.

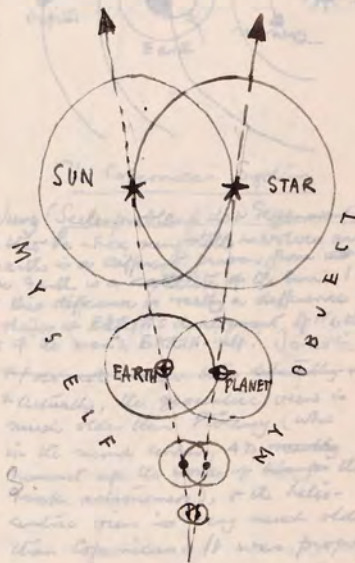
Common sense asks for These are easy generalisations. A concrete & particular example, ^{illustrating} clearly shows, for instance, the difference between terrestrial & solar mentality.

Such an example is easily given not difficult to find. What is EARTH's opinion of the SUN? It is the Ptolemaic opinion that the Sun revolves ^{round} ~~the~~ Earth?

① 'It is absurd' says Plotinus of the Gnostics, 'that they who have bodies like other men & are subject to sensual desire, & to fear & anger, should form such a high idea of their own capacity, & should assert that they can attain to the intelligible, while they will not concede to the sun, which is far less exposed to passion & disorder & change, a greater wisdom than belongs to us men....' On this issue both Plotinus & the Gnostics are right: the solar intelligences ^{can} ~~are~~ higher than the human, yet the human can attain to it.

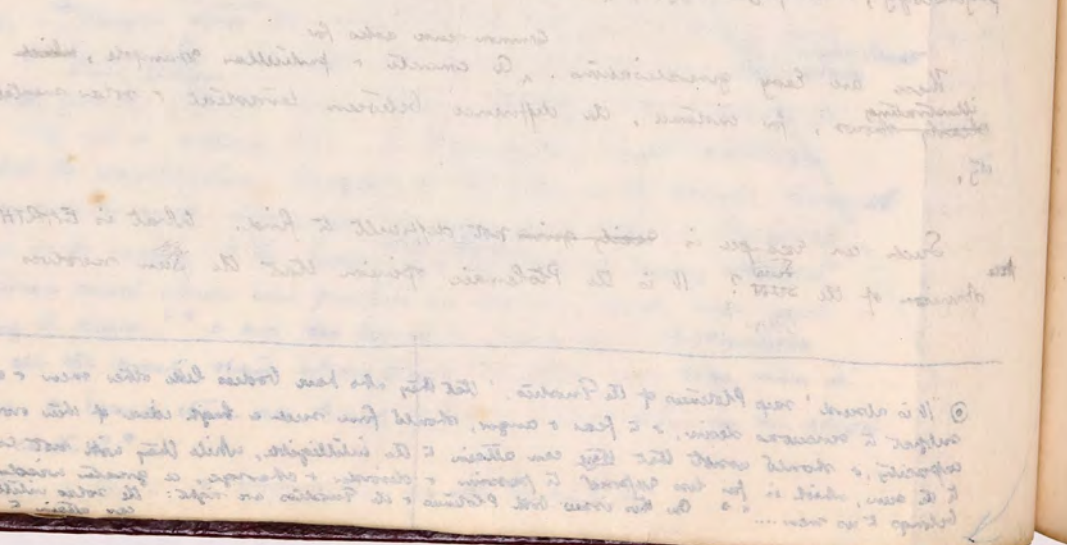
* As the Behaviorist Psychologists, & the Gestalt Psychologists, emphasize.

② The sun was regarded by the mystery religions of the Roman Empire as the world-controlling reason — *mens mundi et temperatis* — & the source of the reason in man & the origin & the final home of his soul. See Franz Cumont: *Astrology & Religion among the Greeks & Romans*, (Trans. J.B. Baker.)



* Anaxagoras, asked what was the object of being born, replied: "To investigate the sun, moon, & heaven." (See Heath: *Greek Science*, only, p. XXXIII.) Such uncompromising identification of human nature with EARTH's might be found amongst some modern astronomers, but it would hardly be admitted as frankly. Macdonald writes: 'We have no other thing to do in this life of ours than to seek to know where we are.... Not to know is merely vexation; no longer to seek to know is the supreme, the irreconcilable misfortune, the unparadisiacal desertion.' (Macdonald Parthos, p. 177)

• *Enneads* II.9.5.



2. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

about her, that, in effect, EARTH lies ^{at the center of} the Sun, at the center of the solar orbit. Now it is essential to realize that this is not an error: it is true for EARTH, ~~for~~ the Ptolemaic astronomers ~~the~~ thought her thoughts. ~~Nothing that~~ has happened since ^{this} time has made it untrue. The astronomer who gives up this view for the Copernican, & conceives the EARTH to revolve about the Sun, ^{has not corrected EARTH's view but exchanged it for the Sun's.} Galileo & the Inquisition were both right. The question is not between right & wrong, but between the right of one level & the right of the next. EARTH is at the center of the Sun-circle, & the Sun is at the center of the EARTH-circle. Curiously enough, the SUN is against that way. Each rotating member really is at ^{his} center.

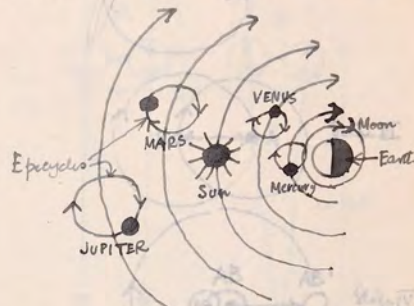
But is not the Sun really at the center? Or, ^{put the matter this way: is it not less true to say that instead of Ptolemy (for instance) is at the center, than to say the Sun is at the center? say that the Sun is, & not Ptolemy (for instance), is at the center.}

I think there is a sense in which the higher view is the truer view; & this is another sense in which the view of ^{any} lower level is ^{just as true as that of any other.} Does not each individual owe his existence to being true to his own standpoint? An EARTH become broadminded enough to see herself as a satellite of the ~~Sun~~ Sun is no longer EARTH. Limitation lies at the root of existence, & in order that there may be a higher view which is ~~in some sort~~ ^{more} truer than the lower view, the lower view must (so to speak) hold fast by its errors. For they are not errors. It really is nonsense to suggest to EARTH that the Sun does not encircle her. Ptolemy is as necessary as Copernicus. Only because there is in fact a Ptolemaic cosmology, ^{can} there be a Copernican. The psychology of the lower level feeds the psychology of the higher level. Thus it comes about that the SUN has this extraordinary constitution: it exists by ^{being} made-out.

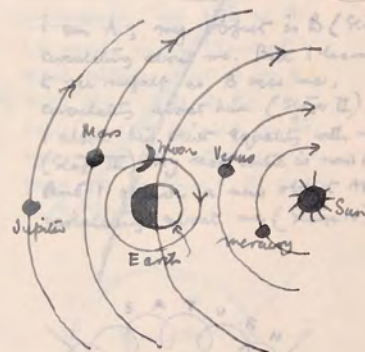
Am I not, perhaps, ^{building} ^{upon} too much of the peculiarities of heavenly bodies, with their regular motions & axial rotation? What is true at their level may not be true at lower levels, for more erratic individuals. ^{the other hand, if the same general laws do hold throughout all levels of mind in the SUN?}

Indeed there is. How does an individual ^{alter} ^{his} ^{level} grow to the next level? First he becomes aware of other individuals, circulating about him: he is their center. Next, he becomes aware of himself as an individual of the same order as the others: he is now center upon them, observing himself. There are, then, many centers.

According to Einstein's principle makes clear that it may be said truly of any point that it is at rest.



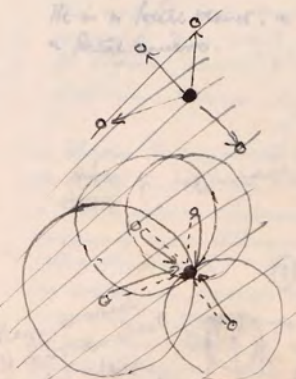
The Ptolemaic System



The Copernican System

• Jung (Seelenprobleme des Regenerant, 130) says that he whose sun still revolves around the earth is a different person from him whose earth is a satellite of the sun. I say that this difference is really a difference between two stages of EARTH's development. Of the development of the man's EARTH-self. Jacobi 126.

• I do not mean this literally & actually, the geocentric view is much older than Ptolemy (who in the second century AD ^{merely} summed up the work of his & the Greek astronomers), & the heliocentric view is very much older than Copernicus. It was propounded as early as the third century BC by Aristarchus of Samos. See Heath: Greek Astronomy, p. 111.



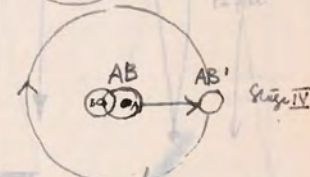
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How can these dual claims be settled? He looks out once more, but this time he looks further afield & sees individuals of a higher order circulating about him. Again, he puts himself in this position, & discovers himself now to be an individual of these ^{order} ~~sort~~. And so on, to even higher levels. Such is the scheme at the astronomical & at the human level. There ^{was} ~~is~~ a time in every ^{one} ~~of~~ ^{us} ~~our~~ life when humans circulated about ~~him~~ ^{me} their center. There followed the discovering that ~~he~~ ^{was} ~~is~~ the same order of being as they: ~~and~~ I learned to see myself, however dimly, through their eyes. I learned that I was not the only center, & that I was orbited by other centers as they were orbited to me. ^{Later on,} ~~Finally,~~ I came to grasp (yet scarcely with full awareness) that ~~all these centers & orbits are organized~~ ^{- I mean this space -} ~~within the existence of more inclusive units about me, centered upon me & existing for my sake.~~ Gradually I grew to see myself, MAN, as one of them, ^{one of many centers.} ~~not the only center.~~ And so ~~my~~ Copernican revolutions go on, one after the other, according to the ~~same~~ pattern. The ships are always the same: the view out, the ^{change} ~~view~~ in, the ~~view~~ ^{view} further out, the ~~view~~ ^{view} in from that further region..... Thus my mind works outwards at the human level, & thus it works outwards at the astronomical levels. It is gradually ^{Is it possible}

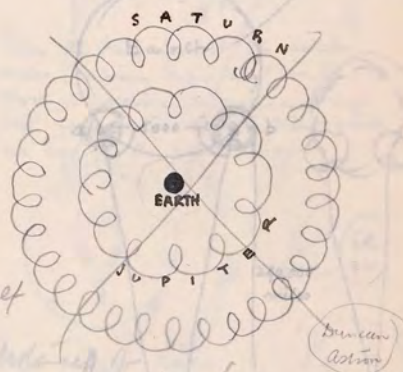
P. ~~Seeming clear~~ that the laws of Astronomy are, in the last analysis, 'psychological', not the laws of ~~ast~~ psychology are 'astronomical'. ^{Perhaps, after all,}
~~that~~ ^{all,} there is not one law of mind & another of matter, but only one set for both. Copernicus, ~~seeing himself~~ ^{his human self} leaping out of himself to catch a glimpse of ~~himself~~ ^{the universe} from the Sun's point of view, & Copernicus, ^{his human self} many years earlier, leaping out of himself to catch a glimpse of ~~himself~~ ^{the universe} from his 'pragmatic' point of view, is making essentially the same discovery about the ~~same individuals~~ ^{himself, & is going essentially the same way}, but at two levels. Copernicus the man ^{sees himself as a man, & so transcends his manhood.}
 puts himself in the other man's place. Copernicus the EARTH puts himself ^{sees himself as EARTH, & so is EARTH, no longer.} in the Sun's place. ^{He can never catch up with himself.}
~~When he realizes what he has, already, order of being he is, he is already~~
~~more than half way to the next order.~~

6 Solar Eyes

All this would be much more convincing to common sense if the self-
same organs were not involved at each level. The SUN maintains ^{provides for} the
human instrument in every respect, but fails to improve upon it. That a man
is more than a collection of cells is abundantly clear, & not least from the
fact that he has ^{no one} ~~these~~ ^{higher} sense organs, ^{which, though made of cells, far} surpassing those of a cell. One reason,
then, (common sense fails) why the SUN ^{does not seem to deserve} ~~is not greater~~ a status above
MAN's is that he has to make do with MAN's sense organs, ^{because} ~~that~~



I am A, my object is B (Stage I)
circulating about me. But I learn
to see myself as B sees me,
circulating about him (Stage II).
I allow his view equality with mine
(Stage III). My real centre is now AB,
and I observe a new object AB'
circulating about me (Stage IV).



The gaseous paths of Saturn
and Jupiter.

o The situation may be phrased differently thus: as the ovum is not merely part of the human body, but that body itself in embryo, so man is not merely part of EARTH, but the less embryo. He has the power of becoming every order of being - MAN, LIFE, EARTH, & SUN - that contains him. He is a fetal planet, a fetal star, a fetal universe.

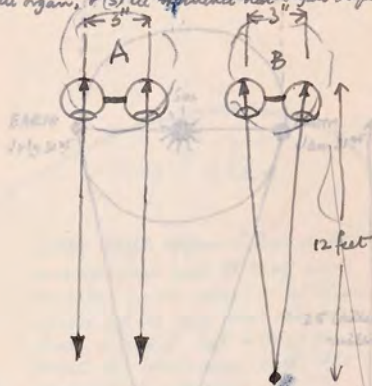
① the plethoric stage, in which
myoglobin (Mb) increases about
100% (A) (2) the stage
in which ~~the~~ ^{the} red cells
normals, and 1 goes
to an individual of the
next grade

he has none of his own, ^{none} peculiar to his own level. Now then are animals whose sensory equipment is very little improvement upon that of their cells, & they are looked upon as colonies rather than ^{as} true individuals. Is the SUN in any better case? Common sense is unobtrusive. I have the sensory equipment proper to my grade. Is the 200-inch telescope any the worse as a sense-organ because it is designed for the task from the start, or is the real any the better for being a makeshift arrangement, evolved out of ~~common sense is unobtrusive. Every level of intellect is furnished with its natural that the higher organs should be artificial.~~ ~~Some sense organs, lacking which it is a fiction.~~ Consider EARTH'S. She is interested in her companions the Sun, the Planets, comets, meteors: these she ~~sees as~~ ~~not as men see them~~ not as small discs or points of light, but ^{as} her equals in status, having their true range of signs & their proper motions. How does EARTH ^{see} them in this fashion? Not through human eyes, three inches apart. Such distant objects need eyes that are not ^{more} ~~capable of taking in much more light~~ ^{capable of taking in much more light} ~~more elaborate~~ ^{more elaborate} (one of them may ^{be} ~~not~~ ^{be} ~~able to need~~ ^{able to need} ~~more~~ ^{more} ~~of light~~ ^{of light} in much more light ~~than the human eye~~ ^{than the human eye} ~~the more remote the object~~ ^{the more remote the object} whose range and size I wish to judge, the more distant my eyes must be, in order that I may obtain two views of it which shall be sufficiently different in direction. To see ~~as~~ ^{as} a body ~~of~~ ^{of} so many miles diameter and so many million miles away (& not just as a star in the sky) I need eyes hundreds or thousands of miles apart. The base of the triangle (which is myself) must widen as the apex recedes. It takes a big body to see a big body as big. My universe keeps pace with me. When I was a child the cow mally could jump over the moon. Now I have grown up from child-size to EARTH-size, I have a moon to match.

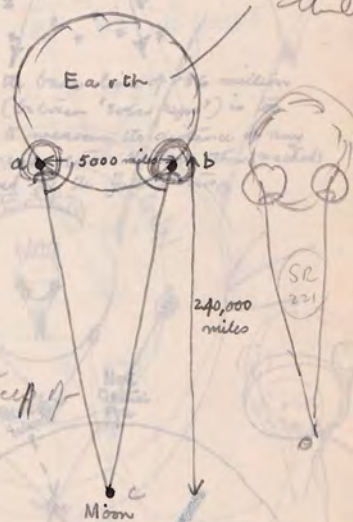
But my EARTH-eyes must always be something less than 8000 miles apart (~~that is~~ ^{that is} EARTH'S diameter) & this ^{box} is far too small for appreciating the distance of the nearest star. ~~But this is~~ ^{But this is} ~~naturally~~ ^{naturally} since only a star can be known a star. Only a ~~star~~ ^{the sun} has the sense organs for perceiving its kind. EARTH is equipped for perceiving ^{only} her fellow members of the SUN, but where in the SUN, except on EARTH, shall solar 'eyes' be found? Then seems to be no way out of the difficulty. Is common sense right after all: is there no solar sense organ which is peculiar to the solar level?

The truth is that the SUN is magnificently equipped with his own sense organs, by virtue of which he is able to ^{refer} ~~see~~ ^{see} ~~millions of stars~~ ^{millions of stars} to their proper places & ^{having} ~~to attribute to them~~ ^{to attribute to them} their proper signs & motions. * That is to say, I am as well-organised at SUN-level for learning to see the stars objectively, as I am at man-level for learning to see men objectively, or at EARTH-level for learning to see the SUN's members objectively. * ^{My solar self} ~~My solar self~~ ^{body must be big enough to} ~~provide two opposite points, each giving~~ ^{provide two opposite points, each giving} ~~two distinguishable views~~ ^{two distinguishable views} of the object, otherwise my vision is not stereoscopic.

Summit 73
(*) In fact, the advance of science has been largely a question of devising new instruments & techniques of observation. ~~The organ provided~~ Here, at this level, a kind of Lamarckism is certainly operative: the order is: (1) the want, (2) the organ, & (3) the experience that organ bequeaths.



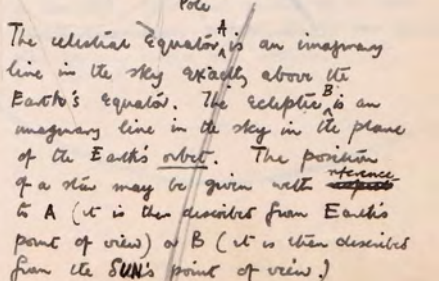
Convergence. My eyes at A are looking on an object at a great distance; at B on a near object. As B they are pulled out of parallel by the eye muscles, the state of which gives me the clue to the distance of the object.



Parallax. When the EARTH ~~looks~~ ^{looks} at the Moon from two observations, ~~5000 miles apart~~ ^{5000 miles apart} she calculates the Moon's distance ~~by measuring~~ ^{by measuring} the angle $a + b$, & the distance apart of the observation. The 'convergence' of EARTH'S eyes in this diagram is the same as the convergence of a man's eyes in the diagram above ($3'' : 144'' :: 5000 \text{ miles} : 240,000 \text{ miles}$).

* Aldous Huxley invites us to consider the change in his being which the scientist is able to induce mechanically, by means of his instruments. Equipped with a spectroscope & a sixty-inch reflector an astronomer becomes, so far as eyesight is concerned, a superhuman creature; and, as we should naturally expect, the knowledge possessed by this superhuman creature is very different, both in quality & quantity, from that which can be acquired by a stargazer with unimpaired, merely human eyes. "Provincial Philology" p. 2.

* Now, when he looks out at the Stars, he does so with a Star's backing: Behind him, attached to him, is the giant & stable SUN, & no more whirling fragments of a Planet.^{the present one who} ^{rotating mass,} more truly than he knew "when I march out the masses wheeling circles of the stars, my feet no longer touch the earth".



7 The building-up process in the SUN.

C.S. So much for my solar eyes; but the body is more than the eyes. And I confess that this body, as my own greater living body, remains for me vague & unconvincing. In particular, what is the ~~total~~ relationship between the human organism & the solar?

A: Perhaps my observer can help here. Retiring from me, he saw the man shrink, draw in (or so it seemed) his human companions, & turn into MAN. He saw the 'tentacles' of MAN thin to the point of vanishing & the broad coloured patterns of LIFE emerge. He saw these concentrate till they merged in EARTH's living sphere. He saw EARTH 'pull' towards her the Sun ^{and} her fellow-Planets as, with them, she dwindled. In the end, ^{'what was a speck, expands into a star.'} from my furthest region, at extreme range, I am the Sun — but a Sun that is now really the SUN, since he has included in himself all his members. In my observer's experience, then, I am a powerful vortex at the centre of his field of vision, drawing all things to myself & engulfing them. Or, if you prefer, I am like a ~~carnivorous animal~~ cannibal ^{who} is always in danger of fading away from lack of nourishment. An insatiable appetite for my fellow-creations is the result, but unfortunately they are shrinking just as rapidly as I am. It is only by devouring every one of them that I can survive, & even so, the price of survival is that I turn into a new creature. ^{But while} my meal transforms me, ^{it does not transform} ~~not~~ my appetite. I was filled out only for the moment; now I am dwindling again, & I am as hungry for my new colleagues as I was for my old ones. And so my metamorphosis goes on. The characters are different each time, but the plot is the same, where my

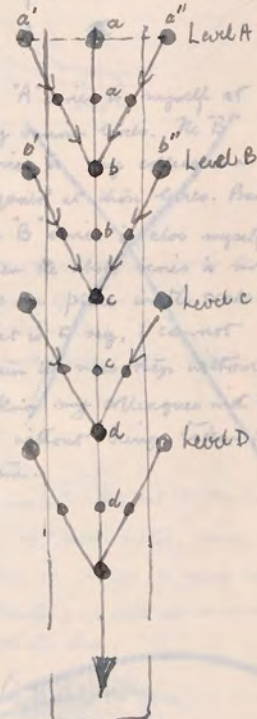
C.S. The story of how a man becomes a Star. No doubt it is true for my observer & if the human turns into the solar, that is the manner of it. But is the story true for me? ^{here} If so, what does it mean for me in actual practice?

A. My observer sees me turn into the SUN, but only by an orderly assimilation, stage by stage, of the right material. And he sees truly. What I am & do at each lower level is not yet solar. It has to be transmuted on the way up. No doubt my human actions are an element that cannot be spared from the solar nature; but they do not, as such, contribute to it. Between man & Sun there are mediators.

Later
But the earth appears to him a point in comparison with the vast circle described by the sun; & let him wonder at the fact that this vast circle is itself but a very fine point in comparison with that described by the stars.

Pascal: Pensées, 70.

+ Browning: Paracelsus, Bk I.

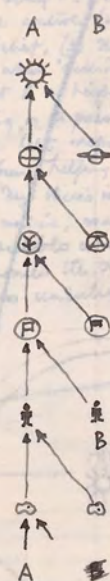


Observer's Field of View
The ~~approaching~~ observer sees unit (a) shrink and 'pull in' units (a') & (a'') which are also shrinking. At length (b) appears, & the operation is repeated.

My human actions are an essential contribution to the nature of MAN, but they do not, as such, contribute to LIFE's nature. It is as MAN that I build up to LIFE, as LIFE to EARTH, as EARTH to SUN. This is only another way of saying that I cannot ~~not~~ ^{attain to} ~~reach~~ an inch ~~above~~ MAN unless I take all ~~the~~ men with me (or am borne upwards by all men), that I cannot rise ~~an inch above~~ ^{attain to} LIFE unless I ~~take~~ ~~all~~ ~~living~~ ~~creatures~~ ~~with~~ ~~me~~ ^{am} joined to all living creatures, that I cannot ~~rise an inch above~~ ^{attain to} EARTH ~~while I leave out any part of her.~~ ~~while I am~~ EARTH. Admittedly, without the least thing I do (without, for instance, the willing of this ~~movement~~) the SUN is not himself: lacking any part of what I am at man-level, I am not what I am at SUN-level. Nevertheless, in order to gain the higher level, I must take to myself, stage by stage, all I need for the ascent. To travel ^{to the next halting-place} ~~upwards~~ is to be transformed re-equipped, fitted out for entirely new conditions, transfigured beyond ordinary recognition. At the ~~peak~~ ^{peak} ~~summit~~ all things are solar: nothing else can stand the height. But the ~~height~~ ^{peak} itself exists because it rests upon ~~each lower stratum,~~ ^{each lower stratum,} ~~being one of the lower strata,~~ ^{being one of the lower strata,} & ~~by~~ ^{by} ~~which~~ ^{which} the stratum is the inhabitants & all they do.

not only do
A. On the contrary, I follow what is going on, but I realize it is going on in me. When I think my way through a problem from the more partial to the more complete point of view, when my interests widen from those of an individual animal to those of the species or of the planet, when my sympathies go out beyond this body to the bodies of all men & all creatures, when my imagination is kindled so that another's feelings & ideas become genuinely mine — when these things happen I am experiencing in myself the counterpart of what my ~~relating~~ relating observer sees. As ~~his~~ ~~under~~ my outlook is enlarged, so is his in-look. He sees me truly. He sees that I become solar^o by identifying myself with all the creatures of my own level, & so gaining the next level. That is the outside story which my inside story confirms.

C.S. It is easy enough to grasp how the inside story works up



© The Chinese astrologists who claimed to produce ~~the event~~ the responses they predicted (& to avert them when ~~the~~ the prediction failed) were not necessarily frauds or mad.

claiming the impossible. I commonly claim to build a house; or write a book, as Napoleon claims that he has conquered a country. And yet neither of us can really ~~give really~~ substantiate our claim that we can move our bodies.

by any ~~days~~, from the exclusive to the inclusive — naturally, since man is as it were the brain of MAN, MAN the brain of LIFE, LIFE of EARTH, EARTH of SUN, & since (in astronomical matters particularly) I do obviously sometimes think as the SUN. But it is not so easy to see how my 'lower' physical behaviour is essential to my 'higher' physical behaviour. Do I help to make the world go round? *

A: I certainly do. I help it to go round to good purpose, that is. Every human action which changes the distribution of things (& every action does) builds or unbuilds the SUN'S EARTH-ring. When I cultivate my garden or build my house I produce a new complication 186 million miles in diameter, in the SUN.

CS That will not do at all. Solar eyes will not work unless they cover 186 million miles. My garden works perfectly when it covers 186 feet. It is an EARTHLY & not a solar garden.

A. You mean it is an Earthly & not a solar garden. But it is really both. As an EARTH-garden it is ^{an area} 186 feet square, ^{some 600} each way. As a SUN garden it is ^{an area} 186 feet by 186 million miles, but of a curious shape: two points in it that are 300 million miles distant are ^{not only} six months distant but antipodal, as Australia & England are antipodal. It is a curious garden. But if it lacked this curious shape in space & time it would not work. It is a satisfactory ^{little} square garden because it is also a ^{circles} gigantic ~~any~~ garden.

CS The ^{present} effective size is the size of the little square: the rest, being removed in time, might as well not exist for me.

A: It takes time for every gardeners to walk round. It takes me twelve months to see the whole of mine, ~~because I am not in a position to~~ ^{his garden, to see it}.

CS. ~~I~~ am just looking at the same thing, day by day.

A: How obviously untrue. The delight of a garden is ^{that} every day a new ditch of it. ~~is seen~~ ^{new} This garden part has bare trees & hoar frost & berries holly & bluebells, but there is a part 300 million miles further along

* For many instances, coming from ~~at~~ many ~~occasions~~ lands & many ages, of the belief that man controls the Sun, see Frazer's Golden Bough. (Abridged Edn. 1924) pp. 78 ff. There are, I suggest, three stages, each necessary, in the evolution of such a belief: (1) The primitive belief in magical control; (2) The scientific destruction of this belief; (3) The recognition that the science which 'destroyed' the belief is only lifting it to a higher plane.

The King, or the priest, or sometimes the common people, felt responsible for the behaviour of the Sun, helping him on his journey with magic. Now this is that, at a certain level of his nature, man is responsible. The Taoist people who believe that (but for their ceremonies the sun will fail to rise are not so unenlightened as they seem to be.



A modern poet writes of:
"The Sun, of whose terrain we
creatures are."
(Charles Madge: "Solar Creation")

* Or, rather, 186 feet x 186 feet by (say) 6000 miles, since my garden is really a ring round the Earth, as well as a ring round the Sun.



In a manner of speaking, one side of EARTH is permanently lighted, the other permanently in darkness, & my garden belongs on both sides.

In the later stages of human development, religion, not the ^{concept of} ~~idea of~~ the planet as a whole, but the sphere of the planet as a whole, is the present ^{spirit of the} ~~idea of~~ the planet as a whole. The sphere is all ^{mercury} ~~mercury~~, or Mars, or Venus. See G. M. S. Stages IV (p. 146)

when the trees are full of leaves, ^{where} the flower-beds are full of red & white
 roses, & ^{where} there are many birds, I never see in this part of my garden. It
 is altogether different over there. But it is a long way from here - so
 far that, travelling at more than a million miles a day, I shall be
 six months getting there.

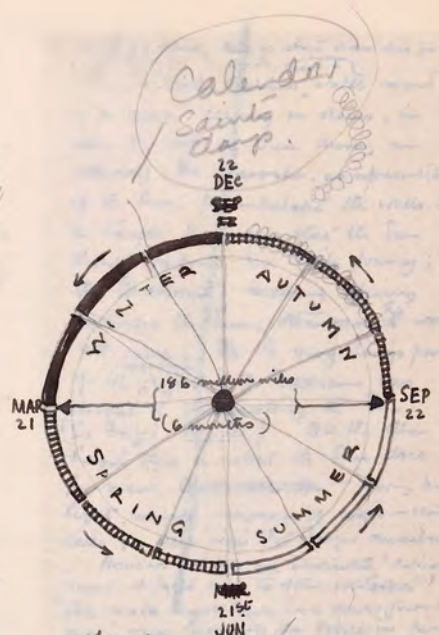
And certainly not ^{not} annulled
 C.S. But this part of the garden makes sense by itself: it can do
 without the rest.

A ~~man~~ Don't be absurd. Do the digging & dunging & forming
 & all the other things I do, or should do, in the cold & bare part of
 my garden make sense, without the ^{not} flowers I pick, & the fruit I
 gather in the other part? Does sowing work, in a plot a
 few yards & a few minutes long? No man ever sowed a seed
 except in a solar garden. Every gardener is a cultivator of the SUN.

C.S. A garden is a special case. Not all human activity is seasonal.
 All annual things are ~~annual~~ annual.

A. My life has many rhythms: in fact it has as many rhythms as levels.
 For instance, I live from day to day, as well as from year to year. The
 daily rhythm is EARTH'S. It takes a day of twenty-four hours to real-
 ize my EARTH-hood, as it takes a year to realize my SUN-hood. And
 as my SUN-shape is a ~~ring~~ ring of 186 million miles in diameter, ^{round the Sun} so
 my EARTH-shape is another ring, some 6000 miles in diameter, ^{round the Earth} & ^{the}
^{morning} ~~proportions~~ I make in the light part of the ~~EARTH~~ ^{hours} for ~~weather~~ ^{weather}
~~in the dark part~~ All my activity ^{which} is naturally linked to EARTH is
^{to that extent} ~~primarily~~ EARTH'S activity, all ~~that~~ ^{which} is linked to SUN is primarily
 solar to that extent the SUN'S activity. My short-term, hand-to-mouth
 purposes are terrestrial, my long-term ones are solar. But of course these
 aspects only appear as a result of analysis. ^{My actual, unsplit living} ~~the concrete activity~~ belongs
 to all levels at once, & ^{it} ~~then~~ is building-up from the lower levels to
 the higher. Thus a man's ~~daily~~ ^{routine} daily rhythm is the basis of his eventual
 achievement over the years. ^{That} ~~it~~ is necessary to cultivate ^{one's} ~~that~~ garden
 on EARTH, in order to cultivate it in the SUN. ~~That is a human disaster really~~
~~and disaster is a disaster.~~ We are quite right to consider our human catastrophes
 disasters.

8 The breaking-down process: the approaching observer.
 C.S. Man acts & thinks, & his efforts are integrated, till the only way to
 grasp their significance is to attribute them to the SUN, or the understanding



observe Christmas when, approaching
 at the rate of more than a million miles
 a day, I come to the place in the SUN where
 Christmas is. To forget a friend's
 birthday is to overlook a feature of the
 solar environment through which I am
 passing.



A man circumnavigates the Earth
 every 24 hours, carrying his surround-
 ings with him. All he leaves behind,
 as he passes into the night, is the
 day with its light. Night & day
 are places: the 'land of rest' is
 6000 miles from the land of waking.
 That is to say: EARTH has a sleeping
 side & a waking side, & LIFE
 rotates through them.

Paley (in his Natural Theology: or Evidences
 of the existence & attributes of the Deity, collected
 from the appearances of Nature, 1802) remarks
 that the relation "of sleep to night" is the
 relation of the inhabitants of the earth to
 the rotation of their globe; probably it is more;
 it is a relation to the system of which the globe is
 a part; & still further, to the congregation of
 systems, of which there is only one. If this
 account be true, it connects the meanest
 individual with the universe itself; a chicken
 roosting upon its perch with the sphere
 revolving in the firmament."

Enter
 24

FW Jones
 38.

That the ^{living} SUN is in some sense a human creation. That I can follow. What I cannot follow is the ^{light} process. The SUN's thoughts, & even his bodily organisation to some degree, derive from man, but how can man's acts & thoughts derive from the SUN? There is nothing ^{so very} objectionable in the doctrine that the SUN is alive because I instil life into him, and is intelligent because ^{the sun minds to} I think for him, and is spiritual because he contains spiritual nature. But the other side of the doctrine is a very different matter. I refuse to believe I am alive, & intelligent, & gifted with a spiritual nature, because a Star, more alive & intelligent & spiritual than I, ^{is good enough to} parcels out to me some of its qualities. This is the most revolting idolatry.

A. The answer is that the SUN really is more alive, intelligent & spiritually developed than the man can ever be. But ^{to put the matter thus is to risk misunderstanding.} I am no less SUN than I am man. In fact I may claim to be more truly myself at SUN-level than at man level, since at the higher level I

have found & realised so much more of what I am. To diminish Sun-worship as irrational is itself irrational. In detail, the Mexican cult of Tonatiuh (the Sun) was of course both fanciful & barbarous, but in principle it was anything but nonsense. The Sun, after his daily conquest of the stars, & long journey across heaven, sinks exhausted into the West, shedding in every red sunset his precious blood for man. Man's duty is obvious. The sacrificial priest - victim whose blood is shed to replenish the Sun's, identifies himself with the Sun, & leaves Earth to take up his new duties in the May. ^{you also accuse me of,}

A: Then let it be written off against my ^{the} ~~revolting~~ ^{to leave everything as it was.} But what are the facts? What does my observer, now returning on his tracks, report? He says that whereas, when receding, he had all along to include more & more (reducing it to manageable size so that it could be included), now he has all along to exclude more & more, & so make more & more of the less & less that remains. The ship ^{the crew are not only} is in danger of going down ~~must be lightened~~ because the cargo is, for ever growing, ~~but demanding more & more elbow-room, but producing~~ ^{the ship} ~~nothing~~ ^(his field of view) ~~cannot~~ ^{cannot} stretch an inch. So overboard, one by one, they have to go. Her choice is all-important.

Pluto, Neptune, Uranus, and all the other Planets, with the Sun, the Asteroids & the Comets, are sacrificed ^{in turn}. Only EARTH is left. Overboard goes all EARTH but LIFE, all LIFE but MAN, all men but myself. I the man am all that is left of the original crew.

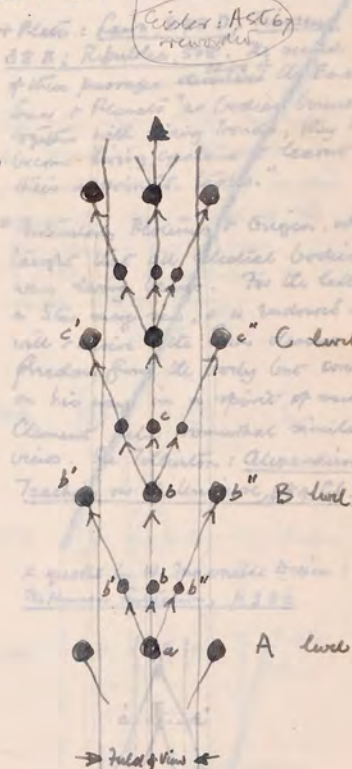
C.S. Yes, but on the whole the choice fell ~~as~~ as it should have done. What went overboard was, ^{much} ~~most~~ of it, supercargo. The fittest of the Planets & of the 'Sphen' universe.

A. Even so, ^{the survivors} ~~what remains~~ cannot but be less ^{in content} than the original shipload. And supposing my observer comes even nearer, reflecting all

It is significant that the Mexican Government have revived on a magnificent scale the pagantry of the 'Renewal of the Fifth Sun' (without, of course, the human sacrifices), & that the ancient ritual is followed very closely. The point of greatest importance is that man feels responsible for the Sun's functioning; he does not wash ~~his~~ his hands of the whole business, but realises his identity with the Sun. He says, in effect; 'I am the Sun!'

C.S. This is arrogance.

On the one hand, this is what man does for the Sun: - for instance, ^{the} Chilcatin Indians walk round in a circle leaning on staves, in order to help the Sun during an eclipse; the Pharaohs, as representatives of the Sun, presided at the walls of a temple to ensure that the Sun should perform his daily journey; the Brahmin's morning offering produces the Sun, otherwise ~~it~~ ^{he} would not rise. ^{the} A very large part of the effort of the Mexicans was devoted to navigating the Sun. (See Frazer: loc. cit.) On the other hand this is what the Sun does for man, ~~that calls for~~ - giving him light, warmth, & means of crops - that calls for those rites that Frazer describes. Have we not seen an ^{communi-} ~~individual~~ ^{decision-} ~~ment~~ ^{ment} of facts now to open ourselves? All souls must have come down from the sun: says Leonardo da Vinci in his notebooks, "seeing that they were essentially the warmth that heats & animates the body, & seeing that there is no other source of warmth in the world than the sun."



The approaching observer sees first (a) small & give birth to units (b)(b'), which themselves swell and demand more & more elbow-room, till all but (b) have passed out of the field. The same process is now repeated at C level.

+ For a description of the Pageant held in the Indian temple at Quetzacoatl, see Carmen Cook's article "The Creation of the Fifth Sun" in the Geographical Magazine, August, 1938.

my cells but one, all its molecules but one, and so on till there is, at the point of contact & identity, nothing left of me at all. If this second half of his inward journey is ~~not~~ a process of whittling down what I am, is not the first half also?

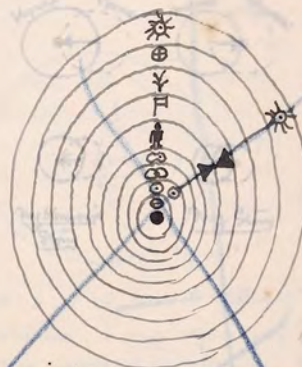
CS. The point is that what I am as ^{atoms} ~~molecules~~ does not derive from what I am as a man, but vice versa.

A. This is madness — of the pseudo-scientific sort. ^{All} ~~that~~ I am ~~as a~~ ^{man} — my hopes & fears, my loves & hates, my notions about the universe & about atoms — all I am & will be, is by some magic encapsuled in those sub-microscopic electric whirlpools, ^{thin miniature solar systems} whose structure defies verbal description, whose very existence is thought by some to be a no more than a useful myth. If this is not twentieth century superstition, what is? It is superstition to believe that I derive from that other solar system which is plain for all to see, upon which I depend as upon my own organs, from which I emerged, into which I shall disappear! So ^(in effect) ~~spirals~~ the modern savage, & imagines he is the intellectual superior of the Ancient Greeks. ^{Pythagoras, Plato, Aristotle, the Stoics} ~~the~~ the Alexandrian Fathers, ^{all those} ~~all those~~ ^{of the Hellenistic Age,} ~~for all~~ ^{almost all the writers} ~~knows~~ the SUN ^{is} a living creature.

9. The breaking-down process: light.

CS. Or was it the Sun ^{rather than the SUN} that lived for them? There is all the difference in the world between the two. The Sun is obviously the source of light & heat, & is the sustainer of my life. The same cannot be said of the SUN. In fact, I am far from clear about the function of the Sun & of sunlight in my solar body. My approaching observer gets rid of the Sun along with Saturn & the others as though it were no more important to me than they. I feel there is something wrong here.

A. My observer knows me by my light, for my light is what I am. "The light is not without me, but within me, & I am myself the light," said Fichte. I am in my various concentric regions. In my SUN region, my light includes the light of the Sun, in my EARTH region, it includes only the light that EARTH has made her own. My observer analyses or breaks up my light, refuting one part of it after another till only the light of my human body is left. He goes on narrowing down the source till he arrives at the atom. This, he says, is the real source of my light — the jumping of an electron from one orbit to another. But he is still distant from the source: he is ^{still} in one of my regions, & not at the centre.

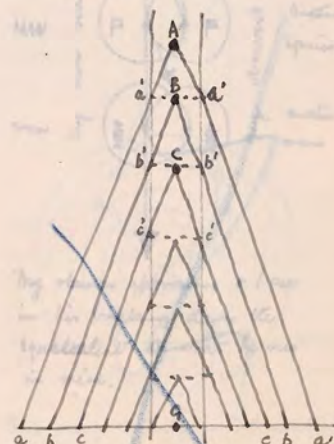


G.M. 5 Rays p. 130, 137

+ Plato: Laws, 893D; Timaeus 88E; Republic, 508. The second of these passages ^{states} that the Earth, Sun & Planets "as bodies bound together with living bonds, they had become living creatures & learnt their appointed tasks."

• Particularly Plotinus & Origen, who taught that all celestial bodies were living beings. For the latter a Star may sin, & is endowed with will & desire: the Sun desires freedom from the body but condenses on his way in a spirit of service. Clement held somewhat similar views. See Tollefson: Alexandrian Teaching on the Universe, p. 89, ff.

x quoted by W. Macneille Dixon: The Human Situation, p. 382.



My observer at A is in a position to take in light from my whole expanse a-a; at B his view is narrowed to b-b, & so on till, at G, he cannot take in any of my light.

5/26
The Sun, and the pursuit of truth, beauty, & goodness.

5/26
11 to
On the first of the first
who ~~is~~ ^{is} ~~the~~ ^{the} ~~central~~ ^{central} ~~level~~ ^{level} ~~while~~ ^{while} ~~the~~ ^{the} ~~mystic~~ ^{mystic} ~~o~~ ^o ~~the~~ ^{the} ~~monks~~ ^{monks} ~~have~~ ^{have} ~~long~~ ^{long} ~~forgot~~ ^{forgot} ~~it~~ ^{it} ~~—~~ [—] ~~he~~ ^{he} ~~keeps~~ ^{keeps} ~~the~~ ^{the} ~~book~~ ^{book} ~~from~~ ^{from} ~~vanishing~~ ^{vanishing} ~~altogether~~ ^{altogether} ~~from~~ ^{from} ~~the~~ ^{the} ~~consciousness~~ ^{consciousness} ~~of~~ ^{of} ~~the~~ ^{the} ~~good~~ ^{good} ~~example~~ ^{example} ~~is~~ ^{is} ~~Hegel~~ ^{Hegel}

Now there arises a query of the greater moment — what is the use of the Sun, & of our recognition of him? What in terms of the ^{spiritual} needs of man, of his aspirations & his destiny, is the value of the solar levels of integration? What essential evolutionary ^{stage} ⁱⁿ ^{the} ^{attainment} of self-knowledge is here embodied?

Now these questions are no mere academic exercises. For C.S. emphatically says that the living Sun, no matter how true a fact, & no matter how necessary to the physical well-being of man, is superfluous otherwise, & perhaps best left alone: the moralist & the thinker, if not the poet, do very well without the radiation of the living Sun. It is generally recognized now that, to find himself & to grow to his full stature, a man needs only to act as a conscious organ of the social body (with its many subordinate units from the family upwards), and (many would add) as a conscious organ of the divine body, variously described as the mystical body of Christ, the whole, the divine society, & so on. ^{In other words,} to be a conscious & loyal citizen of the city of man & of the city of God is the whole duty & privilege of man, & no other citizenship is needed or permissible. Or (since there is an increasing concern ⁱⁿ religious thought for the animals) let me go to the limit, & say that the hierarchical grades which are now recognized as relevant to the moral life are those of the bodily organ, of the whole human body, of the mesofons that lie between man & Humanity, of Humanity, of the animal kingdom, & (for a few souls such as Albert Schweitzer) of all life. But the unspoken assumption everywhere is that the wholes above life — in particular the Earth & Sun — add nothing that has not already been included below, & that will not be included above also, at the level of the whole; *they may therefore be safely ignored.

In this formidable-looking objection let me say, at once, that my ^{chief} ^{set} ^{appetite} ^{lack} in this inquiry is very bare, so far as I am able, the whole of my anatomy, regardless of practical consequences. The value (that counts here is truth — whether the truth is good or beautiful or useful, or whether it is evil or ugly or useless, is a secondary consideration. And I take it that the truth of my Sun-hood has already been sufficiently established, at least in the physical side. As for the psychological aspect, it that (though actual) is superfluous, at least my navigation of its superfluity is not superfluous. It is as well to know the worst.

But to believe that there exists a vast hierarchical organization linking Humanity & life with the whole, while believing that in such an organization the psychological & moral aspects are either moribund or absent, is to believe in the discontinuity of nature, in an essential arbitrariness at the heart of the universe, in the opaqueness of the world to the light of reason. All our experience should warn us that the fault is much more likely to ^{be} in us than in the universe, & that the values we miss are those of which we could but adjust our eyes to them. Though it is as much by faith as by sight that we apprehend the reasonable order of the universe, and though that it is idiotic & meaningless, our faith is wonderfully borne out in practice. Science is founded upon a common sense could not manage for a moment without a large measure of it. ^(which before we come to the empirical evidence) Then say, then, good grounds for doubting the C.S. view that the Sun is of physical importance. And, as soon as we stop to weigh the evidence against this view, it is apparent that the ^{antagonism} ^{levels} of this chapter of the previous & following chapters of the greater moment in the unfolding of its spirit that is in us. The bridge of the suprahuman is not ^a ^{folly} ^{unless} ^{on} ^{the} ^{contrary}, it is the only way across the gulf that separates man from his true home, and every span of the bridge is ^{needed}. ^{that} ^{we} ^{should} ^{ever} ^{have} ^{imagined} ^{otherwise}, that we should for so long have concealed from ourselves the identity of the better part of man with the more exalted hierarchical levels. But there are signs that the intellectual climate of our time — the ^{climate} ⁱⁿ ^{which} ^{only} ^{the} ^{suprahuman} ^{can} ^{flourish} ^{and} ^{the} ^{suprahuman} ^{has} ^{to} ^{wrap} ^{itself} ^{up} ^{till} ^{it} ^{is} ^{past} ^{recognizing} [—] ^{is} ^{about} ^{to} ^{change}. I come now to the evidence, which I shall briefly set down under ^{three} ^{heads}. The Sun, (like the other astronomical individuals of the hierarchy) is actively concerned in the attainment of (I) truth, (II) beauty, (III) goodness.

I. The proposition that knowledge of the stars is knowledge by the stars, & the proposition that this knowledge is of a high intellectual order, guiding & inspiring, to a large degree the rest of science,

It is curious to note that C.F. Krause, who, in his ethical philosophy of man, ~~for~~ ^{for} ~~sees~~ ^{sees} ~~himself~~ ^{himself} ~~with~~ ^{with} ~~humanity~~ ^{humanity} ~~on~~ ^{on} ~~the~~ ^{the} ~~sun~~ ^{sun}. See Windelband, *Intro. to Phil.*, p. 234. What is wrong here is not the basic intuition, but the fantastic form it takes.

W. Windelband
Krause's fear may go so far as to suggest Hegel: "What is reasonable is actual, & what is actual is rational." (Enc. G.) ~~the~~ ^{the} ~~world~~ ^{world} ~~like~~ ^{like} ~~this~~ ^{this} ~~is~~ ^{is} ~~an~~ ^{an} ~~unfolding~~ ^{unfolding} ~~process~~ ^{process} ~~without~~ ^{without} ~~making~~ ^{making} ~~some~~ ^{some} ~~such~~ ^{such} ~~assumption~~ ^{assumption} ~~as~~ ^{as} ~~the~~ ^{the} ~~philosophy~~ ^{philosophy} ~~could~~ ^{could} ~~never~~ ^{never} ~~get~~ ^{get} ~~under~~ ^{under} ~~way~~ ^{way} ~~at~~ ^{at} ~~all~~ ^{all}.

greater spiritual than the East, & is under the guidance of an order of angels superior to those who guide the lower heavens. The fourth heaven is the sphere of the Sun, controlled by the fourth angelic order - the Powers. It is the sphere of the Sun, of whom Dante says:

"The great minister

Of nature, that up to the world imparts
The virtue of these Heavens, & doles out
Time for us with his beam, went crawling on
Along the sphere, where each Power comes;
And I was with him, written of accord,
But even man, that meets his thought, ere thinking.

* Nor need I add that Dante the Sun has performed a revolution that is in itself almost Copernican: he is heliocentric to a degree that the scientist as such can never be.

"A star am I myself among stars," says the initiate to the stars he encounters on his flight through the heavens, "perambulating my orbit with joy & shining forth from the depths."

And here in the Sun the poet meets the spirit of St. Thomas Aquinas, Albertus Magnus, & other of the blessed, circling round him like stars around the pole-star, or (in another of the poet's figures) a "holy mill." I need hardly point out the connection between this picture of the living Sun, & the picture which I have tried to put in this chapter, is no coincidence.

Amongst the manifold sources of Dante's vision is the angelology of the Pseudo-Dionysius, whose ninefold celestial hierarchy governing the lower world & the ascent of God) marks out ascending stages in the realization of the Divine Wordness, & mystic illumination. Man, in his ascent to the Boundless Origin of all things, is assimilated to the heavenly intelligences, who (in their contemplation of the divine) are said to move in a circular manner. This teaching has links with the mystic religion of the Greeks & Romans - with, for example, Mithraism, whose initiates are described as rising above the earth, through regions of increasing sacredness, till they attain complete union with the divine nature; of these nine grades, the Sun is the sixth, where the soul, being purified, is described as fiery. Before the religion of Mithras was brought from Persia to the West, "Greek literature is permeated with a kind of intense language about the Sun, which seems derived from Plato." In general it may be said that the planets, & the stars, at the beginning of the Christian era, were of the Jacob's ladder whereby the soul mounts to its divine source, either after death, or in the lifetime of the initiate who anticipates his future ascension. They did not symbolize, so much as embody, the supernatural life of which man is capable.

In the Gnostic & other early heresies, in the Kabbalah, in the Hermetic philosophy, & astrology & various Gnostic cults & traditions, these doctrines lived on unaltered & (for the most part) degenerate life in the West, till the Renaissance furnished the climate in which they could flourish again. That they were generally, because the mystic's adventure, with its grades of attainment, is universal & perennial, (though the details are described in terms of the current ideology) it is inevitable that his account of the way should reveal, in spite of all bias, features that his forerunners have recorded: these are only one road, without short-cuts.

Let me illustrate my point with a few examples of what may be called the typical graphs of mysticism. (1) The mystic's progress is not uniform; the joyful attainment of one stage is followed by a long period of deprivation and barrenness of spirit before the next stage is reached. The "typical mystic" (to quote an excellent known authority) "seems --- life." Or, in the language of this inquiry, the "axis of the spindle" (characteristic of original travel in general, & of astral travel in particular) is exemplified in the mystic way. (2) The pilgrim along this way can only advance by taking with him what he seems to leave behind. His progress is cubic rather than linear, growth rather than travel: it is a task of world-inclusion (no less than of world-exclusion), in which the self refusing to give priority to itself at any level, taking on more & more, till it can truly claim that all externality is overcome, & no alien self remains. The question, then, that concerns us here, is not whether, in this process of assimilation, the Sun, & the other astral individuals, are involved - they must be - but how far they explicitly involve, & mark off stages of mystical attainment. (3) And the

And to the spheres that all this so long ago dead & buried let me reply that it was found necessary, for the last Royal Society that (Coulton) is a redoubtable opponent no new star appears in the night of Gnosticism (Campbell's Imp. p. 231)

from the Mithraic liturgy, a Greek papyrus in the Paris National Library quoted by R. E. He R. p. 61. Cf. the

Dion Q. 88.

in the Mithraic liturgy, a Greek papyrus in the Paris National Library quoted by R. E. He R. p. 61. Cf. the

C. M. 139.

INGE P. 171.

Boetius has much to say on the subject of the ascending of the soul

A stage in the

The spiritual alchemist's quest of the philosopher's stone was the finding of the soul: the quest was

The cult of the sun is, in fact, always breaking out in the most unexpected places.

Goethe, for instance, confessed to a natural inclination to sun-worship. Gespräche mit Goethe (1868),

iii pp. 14. Eckermann

↑ 255ff. WEBB N.T. 66.

EH 168

Cf. Ch. (above)

88 (Sun)

7 Agave 2/25

the ascent of the upper half of the pyramid is the mystic way, then so is the ascent of the lower half. If heaven is not here it is nowhere. The life of the spirit (if you like) is the complete realization of physical life - it is the physical coming into its own, healed of its time-wounds & space-wounds. ^{It is} more physical than the physical. In short, mysticism is not mysticism if there is anything ^{essentially} peculiar in it, anything stuffy or secretive. If its realism does not exceed that of science, if it is not itself the science of the higher worlds (call them physical or spiritual) then it fails in its task, which is the most vital of all tasks.

(2) Lastly, there is the indispensable negative side to the mystical adventure - the side of loss & death, without which there is no increment of life. "This dying," says Tauler, "has many degrees, & so has this life.... The stronger the death - the harder death." Note again, not an analogy between the spiritual & the physical, but an identity - throughout this ^{part of my} enquiry, the ^{chief} Co-S objection always is that, in arising from one level to the next, an altogether disproportionate weight of dead matter has to be taken on: Life must accept death on an ever-increasing ^{scale}, whether as geophysics in order to live the higher life of Earth, or as the sun & the planets, in order to live the ^{life of the Sun}. The tiny living seed must be ^{carried} ^{by} a great mass of dead soil, if it is to rise to a new ^{degree} of vitality - alone & alive, it can do nothing. The more life, the more death, & the more death is overcome.

The subject deserves a volume to itself, but I have perhaps said enough to show that the mystical way from the human to the divine lies through the hierarchy, which is at once physical & spiritual, & of which the Sun is an ^{integral} member. ^{No} ^{practical} ^{part} of this conclusion cannot be exaggerated. While the duplication of the hierarchy into ^{(1) secular} material systems, abandoned to science & common sense, and ^{(2) sacred} spiritual systems, reserved for mysticism & theology, was no doubt historically necessary (if only to free science for its own work) the consequences of the duplication of reality are now increasingly damaging alike to religion, & science, & art. The greatest need of modern man is the rediscovering of a sacramental universe - a world that, with its lost line & divided space restored, is ^{becoming} ^{now} ^{whole} because it is whole. Of course the new mysticism will be in all essentials the same as the old, but it will recognize that ^{science} & art are a necessary part of ^{itself}, that this way is its way, ⁱⁿ ^{particular}, it will ^{realize} that its function & fulfilment are progressively to realize the life of the dead worlds that science reveals, to clothe the dry bones ^{of the physical universe} with living flesh. In particular, it will take the solar system of astronomy, & turn it, by its own science, into the experience of the living Sun, "because the Sun is nobler, & a degree deeper in nature, than the nothing of the outer world." "

Second Seminar for Earth-Bray? q. in U. M. 217, 218.

So long as the mystic's un-gone unrecognized chunk, it falls short of full sunbath. We cannot CAIRD.

3/25
8/27
inge.

DEU. 113

Bothwell:
On the election of Grace, II, 24.
p 26.

OMK 18-19
on Scholastic.
Gileon 364 - Malbranche.

The new way to induce this doctrine to ^{the} ^{universe} ^{of} the scientist & the poet, & transfer it to one shadow-nature of spirit.

All I am really doing here is to retell, in modern idiom, the resurrection - doctrine of St Paul. We may call this ^{the} ^{new} ^{way} ^{of} ^{inducing} ^{this} ^{doctrine} ^{to} ^{the} ^{universe} ^{of} the scientist & the poet, & transfer it to one shadow-nature of spirit.

CS. This story does not seem to fit in anywhere with the familiar scientific story of light originating in the Sun, passing through space & the various layers of the Atmosphere, & being reflected from objects into my eyes.

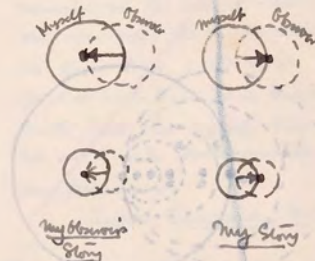
A: Then, are two stories of the breaking-down of ~~my~~ light, because there are two story-tellers: myself & my observer, the insider & the outsider, the one who looks out at the world & the one who looks in from the world. And the ~~first~~ ^{one} cannot possibly see what the ~~second~~ ^{other} sees, though what ~~he~~ ^{the other} sees is always ~~the~~ ^{the other's vision} on a par with what ~~the other~~ ^{the other} sees. There are thus two parallel accounts of what is essentially the same history, mediated by two different yet more or less equivalent sets of characters. As a matter of fact, each story-teller is giving an account of the other story-teller.

CS This is much too vague. What does it mean in the physical world?

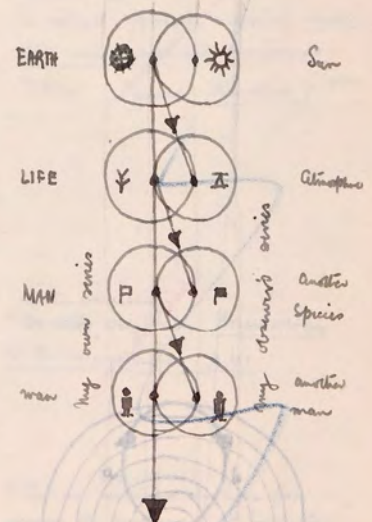
A: It means that ~~as~~ when my observer sees me as EARTH, I see him as the Sun. When, approaching, he sees me as LIFE, he is for me the blue sky - the Atmosphere. When he sees me as MAN, he is for me some other Species. When he sees me as man, he is looking at me through another man's eyes. We are, that is to say, always on equal terms. In other words, his analysis of my light is ^{paralleled by} my analysis of his light. His story involves the axis EARTH, LIFE, MAN, & mine involves the axis Sun, Atmosphere, Species, another man. And both stories are stories of light. The second is the scientific story, but it is only half true, because it is only one-sided. ^{Science ignores & must ignore - what is happening to the scientist.} The two-sided story, told by the pair of mutual observers who always keep pace with one another, is the whole story. No observation is complete unless it is two-way: what I make of my object & what my object makes of me cannot ^{in the long run} be divorced.

CS Is it permitted to ask how any observer capable of observing (can dwell in the Sun, in the upper Atmosphere, in some Sub-human Species - say in bees or grass?

A: I know it seems odd, but the truth is that all these unlikely places are inhabited by intelligent beings. Who is my observer but myself? How can ^{I know} the EARTH be known as a Planet, centered on its Sun, save by a known who (in some sense) partly ^{partly} ~~himself~~ ^{partly} in the Sun's position? How can LIFE be seen save by one who is properly situated to see them? No doubt I do not travel in human guise



* The blue waves of the sunlight are scattered by the molecules & particles of the air: for this reason the sky - that is, the Atmosphere - looks blue. To LIFE, the Atmosphere is a visible EARTH-layer.



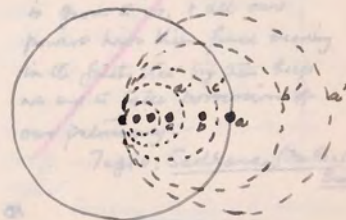
My observer approaches & I see in his breaking-down the equivalent of what he sees in mine.

My being consists in 'observation' (a), in being observed (b), and in the process or movement of both (c) & (d).

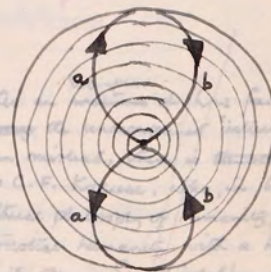
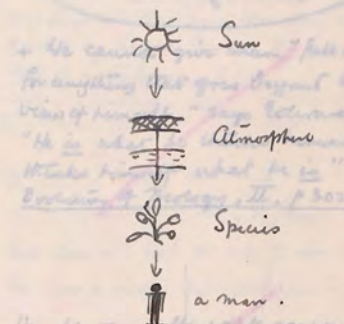
either to the Ionosphere or to the Sun, in order to see myself as LIFE & as EARTH:
I am not so ^{foolhardy} ~~foolhardy~~. No, I adapt myself perfectly to these difficult
climates — so perfectly that, in the Sun, I am the Sun; in the Atmosphere,
I am the Atmosphere. I don't mean the whole of me is these things,
of course, but only that part which has come away to see what I am
at various ranges. And so the story of that I (the I who looks
outward) have to tell about light is ^{let it be} ~~that it is really an account of how my~~ my
observer (the I who looks inward) descending from his Sun-hood, passing
through every region of myself, when he is seen in appropriate form,
till here, at the centre of all my regions, he & I reach identity. At
this point the view out & the view in are one, & the he who looks outward
& he who looks inward are one.

CS Under carefully chosen conditions, this story of the descent of my
observer through my regions may approximate to the scientist's story,
as when the Sun shines in a bright sky & I am sitting under the trees
with a friend. Sunlight is conditioned or 'digested' by the Atmosphere,
then by the vegetation through which it is filtered, & which reflects in in all
directions, then by the face of my friend, from which it is reflected to my
eyes. Thus my observer is visible to me, & I to him, at each stage
of his descent to man, & these stages correspond to the scientist's account.
As a rule, however, some of these stages are missing & the scheme does not
work out so nicely.

^{They are not missing}
A. ~~Missing in appearance, but not in reality.~~ Supposing we move from
under the trees, or the Sun goes down, or the sky is overcast, it ~~will~~ ^{is} still
to be true that I see my friend ~~unless~~ — there will be no friend to me —
unless the Sun had for many years been turning itself into the
lightest Atmosphere, the lightest Atmosphere into plants, & plants into my
friend. My observer comes to me at many different rates (of ~~at~~ ^{the speed of}
which light is the fastest) & under many disguises, ^{not all of which are simultaneous, to be new.} But he is
always my shadow or counterpart or alter ego, always on a level
with me, ^{yet} always retiring or approaching through my regions. ~~For~~
~~fact~~ His breaking-down & building-up is not mine, but keeps pace
with & accompanies mine, ~~as is necessary to mine.~~ ^{For only he my}
~~observer is in a position to experience what I am~~ ^{representing} ~~for they are mine, finally,~~
because, without them, my view outward lacks ~~the~~ ^{reality} content, & because, without them,
his view inward lacks ~~the~~ content. And what is left of me when the
view out & the view in are taken away?



a, b, c etc. are the different
stations, in my regions, of
my approaching observer. His
approach is my analysis of
his light.



My being consists in 'observation' (a),
in 'being observed' (b), and in the
process or movement of both (a)
& (b).

10. Conclusion: the realization of SUN-love.

What am I? I am the SUN. And, says D.H. Lawrence, "the sun makes man a lord: an aristocrat: almost a deity."

As I write these few words I know how absurd they would seem to one who, having opened the book at this page, had not followed the argument thus far. (Even to one who has made up to this point, but does not finish the book, will need to finish the book, if he is not to misunderstand my meaning.) To myself also, in some moods, the statement that I am the SUN does not make sense. Yet it is true. Of course it is only one of many equally true (and, on the average, less flattering) statements of me, but that fact does not seriously lessen its importance. The point of this chapter is that ~~I am the SUN~~. Let me then, in closing the chapter, forget for the moment all the other things I am, to abandon myself to this one realization.

Leaving on one side the arguments I have brought forward for holding such an opinion, do I find in myself an instinctive repugnance to it? Is it acceptable, not only to my intellect, but to my deeper nature, to the whole of me? The reasons for believing I am the SUN seem to be as cogent as the reasons for believing I am a man, but a good deal of me is unpersuaded. How, then, can I realize my SUN-love? How can I become vividly aware of it in practice? A lot hangs on the answer, because awareness of SUN-love is SUN-love: I do not fully attain till I am conscious of attaining.

It is time to be honest with myself. The situation is not at all as I have drawn it. Intellect does not ~~lead~~, but ^{precedes} intuition. The arguments I have gathered & sewn together (leaving, I know, many a gap) are an apron to give respectability to the conviction that was there all along. There is a crudeness about a naked belief of this kind, & not a little of the belief's value lies in the efforts ~~to~~ ^{to} dross it up in decent intellectual garments. But there is no doubt which comes first. ~~to some vague but~~ Vaguely, but with the assurance of direct insight, I know that I am the SUN. My task ^{thereafter} is to see how this seemingly ridiculous intuition can be made to fit in with my ~~other~~ intuitions that I am a man, & with other intuitions that are equally insistent. (It is not that I believe because I find reasons, but I find reasons because I believe. This does not make the reasons bad ones, or superfluous. On the contrary, to try to bring one's innermost convictions to full consciousness, & at the same time to try to reconcile & indigenize them, is to enrich & purify them: it is also to begin to distinguish them from mere prejudices. Intuitions that are not so exercised soon become stale.)

It is the innermost nature which, when half-grown, is the most non-rational.

Most likely
Born as a
Reflexion
of a purpose

The greater part of the world is to us as if it were nothing. But we cannot allow it to remain so, for this it belittles our own self. The entire world is given to us, & all our powers have their final meaning in the faith that by their help we are to later possession of our patrimony.

Tagore: Sadhana, (The Realization of Beauty)

Goethe re
p. 9

+ We cannot give man "full credit, for anything that goes beyond his own view of himself," says Edward Caird. "He is what he thinks himself, & thinks himself what he is." Evolution of Theology, II, p. 302.

Humble yourself, weak reason; be silent, foolish nature; learn that man infinitely transcends man. Pascal: Pensées, § 434.

In this connection
+ On this, see Jung: Psychology of the Unconscious, p. 127.

* As an exemplar of how far ~~strong~~ the undisciplined intuition can mislead, there is the work of C.F. Krause, who, in his ethical philosophy of humanity, links terrestrial humanity with a humanity on the sun. See Windelband: Introduction to Philosophy, p. 234.

Krause, vaguely, had the right idea, which, because he did not really think it out, became the worst sort of nonsense.

4
CELL

5
CHIRE

6
EXT.

8

9

The great part of the world
is not in the world
but in the mind
of the man who
sees it
in the light
of his own
inner vision
of the truth
of the universe
of the human
condition
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And, in the midst of all these concentric abysses, ~~you~~
Victor Hugo exclaims, "you would have me shrink &
shrink up into my ego! Into what ego?... into
the I of my flesh, into the I that eats, the I of my
digestive apparatus, the I of ~~my~~ my clay?... You
would have me refuse my adhesion to the indivisible!
You would have me refuse to obey the law of gravitation!
.... No. It may not be. The pancreas is not the sole
consideration. The processes of my chyle, my bile & my
lymphs cannot be the goal of my philosophy. The
ridiculous universe is in question." X

The Sun. It is not the vulgar, low road vision
a rural ~~sun~~ Sun, worship was to early Christians
Millennium was the military religion of the Imperial
Romans, but before before them "Greek literature
is permeated with a kind of intense language about the
Sun." (S. S. p. 139)

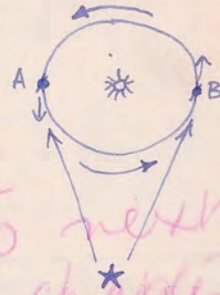
X Intellectual Autobiography (Postscriptum de ma Vie)
: "Things of the Infinite."

I am a creature who is little more than a bundle of needs need of him: my life is his, without him I am nothing. To realize myself is, perforce to realize him, since no other creature save a Star is capable of living in this Universe. Yet, as all know this, why else was it necessary for the Astronomer Royal to certify that (contrary to widespread rumour) a new star appeared in Orion on the night of Browning's death?

For example, if common sense should still demur, consider what it is to be the SUN. It is, primarily, to enjoy other Suns, & to know one's own SUN-hood in & through theirs. I am not a Star on my own, unaided, or directly, but by virtue of the my companions. Common sense wants an illustration of how this works out in practice? Then take for example one of the methods of measuring the SUN: the spectrum lines of ^{carbon} stars are compared with the same lines after six months, when the Earth has changed direction; the observed displacement of the lines - a Doppler effect - gives the clue to the Earth's orbital velocity, which in turn gives the clue to its distance from the Sun. This is an illustration of the law that, at every level, I know myself in terms of my equals & companions. ~~But~~ my growth is, a question of my growing object. I grow by attributing growth. I am great by finding greatness that is not mine, yet becomes mine for that very reason becomes mine. * Only on this condition does Walt Whitman's claim hold good: "I make my spirit against yours you or to, growths, mountains, trees, ^{first & foremost} ~~By Blue Water's shore~~."

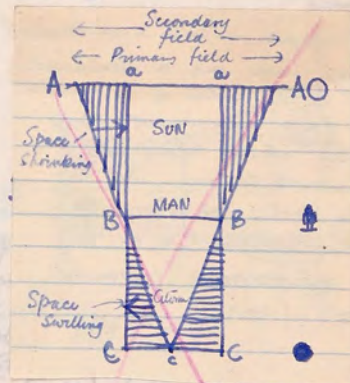
And, finally, let me recollect that to grow to SUN-hood is, after all, not to grow at all. The SUN - it was decided in Chapter IV - is not grown than the man: ^{its space corrects its size.} ~~its space corrects its size.~~ The contents shrink - the man: ^{a succession of} ~~its space corrects its size.~~ contents does not swell; the parts dwindle & vanish - the whole is constant. Therefore my ^{expansion} growth is at least as truly ungrowth as it is growth. Since each level ^{puts} ~~has~~ its own value to space - a value such that, when I am enlarged to become a higher & more inclusive individual, my expansion is offset by the contraction of the space which is proper to the new level. To have to the Centre is to ^{transcend space by} making the most of space, to spring it out to the limit; to have to the whole is to ^{all it} compass transcend space by compressing it into the least possible compass. Both movements involve expansion & contraction equally.

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+ See Smart: Astrophysics, p. 42.

* "We are what we are most deeply interested in," says from the Inge. (Personal Idealism & Mysticism p. 129)



CL-BB-aa is the primary field (see Ch IV, § 5) but instead of naively accepting this field as constant & its contents as variable, I construct a secondary field that grows from C to AA, & place in it ^{constant} ~~variable~~ contents. Actually, ^{the two} ~~not only~~ both procedures are legitimate & complementary.

You may say, "the world is not a butterfly, & neither are the heavens." But we are not dealing with it, it would be incredible. They refuse in a piece of gold more than in the Sun; & yet a few little glittering stones & call them jewels. And admire them because they are replacement like the stars, & transparent like the air, & pellucid like the sea. But the stars themselves which are the thousand times more useful, great, & glorious they disengage.

Would we think it possible for a man to delight in grass, to love a butterfly, & neglect the heavens? Did we not desire it, it would be incredible. They refuse in a piece of gold more than in the Sun; & yet a few little glittering stones & call them jewels. And admire them because they are replacement like the stars, & transparent like the air, & pellucid like the sea. But the stars themselves which are the thousand times more useful, great, & glorious they disengage.

Trakema: End of Meditations I, 34.

But the meditations

Look at me before I disappear!

Push: "A la nuit" (Lett. Paris, June 13, 1910)