



Conceptual Basis for William Wordsworth's Rejection to Science. Lexical Analysis of *The Prelude*

Dr. Bárbara Jiménez. University of Leeds. School of Philosophy, Religion and History of Science Recibido 5/3/2019

Resumen

Gran parte de la literatura crítica dedicada a interpretar el trabajo de W. Wordsworth intenta, por un lado, superar y moderar, o, por otro lado, aceptar directamente la manifiesta oposición contra la ciencia y las prácticas científicas que el poeta sostiene, principalmente a lo largo de su obra The Prelude. Examinaré la base conceptual de tal actitud hostil analizando el léxico utilizado en esta obra. Los resultados obtenidos permiten confirmar la hostilidad de Wordsworth hacia la ciencia, y más precisamente, el prejuicio de que la ciencia moderna no permitiría una percepción humanizada de la naturaleza. Pero argumento que esta actitud se debe a una latente imagen encantada del mundo, en weberiano, más adecuada para la descripción sentimental que para la percepción y descripción del paisaje natural basadas en el conocimiento explicativo de la naturaleza.

PALABRAS CLAVE: Desencantamiento, Wordsworth, *The Prelude*, Ciencia y Arte.

Abstract

Much of the literary criticism devoted to interpreting the work of W. Wordsworth tries, on the one hand, to overcome and moderate, or, on the other hand, to directly accept the manifest opposition against science and scientific practices that the poet maintains, mainly throughout his work The Prelude. I will examine the conceptual basis of such hostile attitude by analyzing the lexicon used in this work. The results obtained permit confirming Wordsworth's hostility towards science, and more precisely, the prejudice that modern science would not allow a humanized perception of nature. But I argue that this attitude is due to a latent enchanted worldview, in a Weberian sense, more suitable for the sentimental description than for the perception and description of the natural landscape based on the explanatory knowledge of nature.

79

N° 90 Noviembr diciembre 2019

KEYWORDS: Disenchantment, Wordsworth, *The Prelude*, Science and Art.







80



Conceptual Basis for William Wordsworth's Rejection to Science. Lexical Analysis of *The Prelude*

Dr. Bárbara Jiménez. University of Leeds. School of Philosophy, Religion and History of Science Recibido 5/3/2019

1. Introduction

M. Weber's *Weltentzauberung* (disenchantment of the world), one of the most representative commonplaces of contemporary historiography about the cultural impact of modern scientific knowledge (Josephson-Storm 2017), states that there is no room for a magical or spiritual explanation of phenomena in a world rationalized, mathematized, by the natural sciences, reveals a certain humanistic discomfort when integrating the descriptive-explanatory knowledge of the world and its interpretation into an image of the world that also satisfies existential human needs or impulses, including aesthetic ones. Weber's diagnosis has led to the widespread presupposition that modern science, on the one hand, is neither oriented nor able to give meaning to the world (Schroeder 1992, Kontos, 1994, Gane 2002; Koshul 2005) and, on the other hand, does not empower a humanized perception of nature and would consequently produce an irreversible dehumanization of culture.

This malaise has been channelled through a critique of the supposed pernicious effects of science on aesthetic sensitivity in regard to world events, a recurring issue in Romanticism. A significant anecdote precisely reflecting the humanistic misgivings about science is the well known encounter between the Romantic poets William Wordsworth and John Keats, the English essayist Charles Lamb, and the painter Benjamin Haydon, in the London studio of the latter. Talking about Newton's *Optics* (1704), Keats, in relation to a comment by Lamb, thinks that by reducing the rainbow to a prism, Newton had destroyed all its poetry (Dawkins 1998; Hughes-Hallett 2000; Holmes 2009; Plumly 2014). He was referring to the colourful effects arising out of Newton's experiments with prisms and light. The explanatory reduction of the rainbow to terms of wavelengths, would, according to Keats, have stripped the luminous phenomenon of all poetry and destroyed any

81



Conceptual Basis for William Wordsworth's Rejection to Science. Lexical Analysis of The Prelude | Bárbara Jiménez

mystery that could have been found in its contemplation. In fact, in *Lamia*, one of his best-known poems, Keats rhetorically asks whether the charms of nature do not disappear when it is touched by cold philosophy. And he responds with a yes, that philosophy (and it is understood that science too, given the meaning that the term "philosophy" had in the first half of the nineteenth century) would unravel the rainbow, that is, it would strip away its charm: "Do not all charms fly / At the mere touch of cold philosophy? / There was an awful rainbow once in heaven: / We know her woof, her texture; she is given / In the dull catalogue of common things. / Philosophy will clip an Angel's wings, / Conquer all mysteries by rule and line, / Empty the haunted air, and gnomed mine— / Unweave a rainbow" (Keats 472-473, lines 229-237).

R. Dawkins' inspirational sources for the title *Unweaving the Rainbow* come, precisely, from the above cited ideas that John Keats holds and his aesthetic dissatisfaction with Newton's analysis of nature in his work *Optics*. According to Dawkins, "science is, or ought to be, the inspiration for great poetry" (*x*), given that it offers a wider range of inspiring possibilities, all spectacular: scientific knowledge could be a great aid to enhance the aesthetic perception of the world, helping to expand the sensations to create greater awareness, which would then result in a deeper feeling of beauty.

The discrepancy on the cultural influence that Newton's *Optics* might have had on the aesthetic perception of the world became an almost paradigmatic *topos* of the relationship between Romanticism and science. In a well-known print entitled *Newton*, by the poet and Romantic painter William Blake, Newton is represented with a compass in his hand, seated on an imposing rock and inclined on a parchment that contains the diagrams that he has created. The compass would symbolize the aspiration to explain all aspects of nature; this intention would mean a limitation to the creative capacity of the imagination.

Blake's critique of Newton's constrictive science may also be extended to the annotation he makes outside his *Laocoon* engraving: "Art is the Tree of Life. Science is the Tree of Death." Blake is referring to the death of imagination, to the end of spiritual visions, displaced by the unique vision of nature that Newton's scientific materialism would entail.

These examples of a rejection of Newtonian science allow us to formulate a question of a more general nature: if it is not based on the scientific way of knowing the world, how then does the Romantic poet want to understand, want to approach nature? Romantic poets tend to approach nature in order to understand more than just the mere occurrence of mundane events. They pursue an intimate and mystical communion with nature to understand its place in respect to the organic whole. Nothing makes sense to the Romantic if it does not consider a relational and organic whole. But the procedure that focuses on the particular in order to understand the kind of link it maintains with the greater whole is also, precisely, the kind of



procedure that science has to follow. It could be said, therefore, that Romanticism shares with science its most fundamental basis for acquiring inspiration and wisdom. Why are, then, Romantic poets so afraid of unweaved, rainbows and, ultimately, of disenchantment nature? What is, then, the true nature of the opposition between some Romantic poets and science?

In order to shed light on the questions raised above I will examine the foundation of such hostility by analyzing Wordsworth's lexicon used to describe nature in his work *The Prelude* (hereinafter TP), which is, perhaps, the most complete and intellectually intense of Wordsworth's great poetic works and, also, one of the literary symbols of English Romanticism. Wordsworth's descriptions of nature in TP gain a special strength and stand out in comparison to allusions to scientific practice, to which he refers in a negatively critical way throughout the work. The contrast created by the science / nature opposition makes the less abundant adjectives of the elements of nature acquire a special force and stand out against subjects dedicated to science.

To this end, I will firstly make a study centred on the science/nature opposition that W. Wordsworth presents in TP. Secondly, I will proceed with a conceptual study of the representative lexical material obtained from a lexical analysis of TP, putting especial emphasis on the adjectives used to describe nature in this work.

I assume that the perception and subsequent description of nature are never independent of the worldview held by their cognitive subjects. The lexical scrutiny of Wordsworth's TP, therefore, will make explicit a semantic mass with sufficient empirical basis for making non-arbitrary interpretations on Wordsworth's worldview through conceptual analysis. As changes in the knowledge of nature should modify its explanation as well as its perception and description, the results obtained from a lexical analysis of TP will make explicit Wordsworth's hostility towards scientific practice, and I claim that this attitude is due to a latent enchanted worldview.

Critical literature has tended to moderate Wordsworth's aversion to science (Garstang 1926; Bonacina 1944; Evans 1954; Jeffrey 1967; Durrant 1970; Manier 1978; Gaull 1979, 2015; Turner 1990; Wyatt 1995; Nichols 2005; O'Connor 2007; Valenza 2009; Bewell 2017), and, exceptionally, to overtly accept it (Bush 1950; Nichols 2005; Whitehead 2011). However, These critical authors have not paid close attention to the language Wordsworth uses when describing nature. There are certainly concordances of Wordsworth's works (Cooper 1911). There are also studies available focusing on certain aspects of Wordsworth's use of language (Austin 1989). Nevertheless, there has never been undertaken a comprehensive semantic analysis of Wordsworthian lexicon in TP which can confirm or reject the thesis of disenchantment in this work. The lexical analysis will, consequently, help clarify whether Wordsworth did or not acquire any scientific-explanatory knowledge about

83





the functioning of nature and if that scientific-explanatory knowledge shaped the poet's perception and description of nature.

2. Science, a "lie," a "succedaneum"?

The emphasis that Wordsworth makes to describe his absolute source of inspiration, nature, is reinforced even further when this is compared to its opposing element: the city. With a clear tone of rejection for the city throughout the entirety of the work, Wordsworth emphasizes the inspiring force of nature compared to the oppressive walls of cities:

Five years are vanish'd since I first pour'd out Saluted by that animating breeze Which met me issuing from the City's Walls (TP, Book II, lines 217-222)¹.

These verses show how the constraints imposed by cities prevent Wordsworth from having any direct contact with nature. However, it is perhaps the contrast between these two opposing environments what allows him to write with such expressive and descriptive terms in favour of nature and against one of the main activities found in the city: science. Instead, Wordsworth is looking to devote adequate attention to certain aspects of organic matter that scientific abstractions cannot analyse. He accuses science of conducting a fractional study of the elements of nature, when nature should be understood as a whole. Likewise, he also assumes that the division or delimitation of the parts is something that cannot be perceived in nature, but is a human invention.

Wordsworth, however, does not try to describe a nature fractioned in parts, that is, on concrete elements of the natural landscape, but he proposes to study it as a whole. TP presents the organic unity of everything as a revelation of which Wordsworth is witness ("The unity of all has been reveal'd," (TP, Book II, 1. 226)). Science, therefore, is nothing more than "hollowness," a "lie" ("Now this is hollow, 'tis a life of lies," (TP, Book V, 1. 350)), mere appearance, a "succedaneum," or even a "false secondary power" that establishes boundaries in nature when they do not really exist:

Science appears but, what in truth she is, Not as our glory and our absolute boast, But as succedaneum, and a prop To our infirmity. Thou art no slave Of that false secondary power, by which,

¹ All citations from *The Prelude* are extracted from the following edition of the work: *The Prelude, or Growth of a Poet's Mind*. Ed. Ernest de Sélincourt. London, Oxford University Press, 1928.



In weakness, we create distinctions (TP, Book II, lines 217-222).

In the poem *The Tables Turned* (1798) Wordsworth criticises the intellect that stands between and deforms the forms of nature, and does not speak of dissection favourably, an act that consists of division. Dissection is incompatible with the quest for the whole:

Sweet is the lore which Nature brings;
Our meddling intellect
Mis-shapes the beauteous forms of things: —
We murder to dissect (Wordsworth 1975 377, lines 25-28).

Rejection of the borders, divisions and dissections proposed by scientific practice is not capricious and casual. Wordsworth's purpose is to announce that it is not possible to perceive nature as a "great whole" (TP, Book III, l. 131) through scientific practice, a perception that allows free inspiration and subsequent poetic creation. Such ideas, however, do not necessarily imply the author's personal contempt for any kind of new knowledge that might derive from science. In actuality, Wordsworth admits to deriving pleasure from a scientific branch that works with abstractions: geometry. In Wordsworth's own words found in TP:

Yet I must not entirely overlook
The pleasure gather'd from the elements
Of geometric science (TP, Book VI, lines 135-137).

Nº 90 Noviembre diciembre

85

Wordsworth also works with abstractions. In TP he expresses that he creates an independent world in his mind from "images" (TP, Book VI, l. 180) or from stimuli he perceives of everything surrounding him. He thus creates a "Synthesis" (TP, Book VI, l. 182) or particular interpretation of the world through poetry. The outside world, in this case nature, serves as inspiration and provides images of each concrete element. Consequently, the poet creates his own interpretation of what is observed. This is, however, a "natural" or intuitive interpretation of reality where there are no interferences of a scientific knowledge of any kind filtering into what has been observed and modifying its description. Wordsworth intends to carefully safeguard the origin of all his poetic enlightenments and does not seem to want to be corrupted by any external influences. Science, in this sense, would distort the perception of the world and would impose on the mind a particular vision of reality. Said in the words of A. N. Whitehead, "we forget how strained and paradoxical is the view of nature which modern science imposes on our thoughts. Wordsworth, to the height of



Conceptual Basis for William Wordsworth's Rejection to Science. Lexical Analysis of The Prelude | Bárbara Jiménez

genius, expresses the concrete facts of our apprehension, facts which are distorted in the scientific analysis" (104).

3. Between Passion for and Aversion to Science

The reasons behind the defence of poetic expression, and the unscientific Wordsworthian attitude are shown especially clear in the *Preface to Lyrical Ballads*. Wordsworth argues here that poetic creation, an intimate activity in which the spirit works autonomously, independent of the outside world, is an essential part of every human being. Its practice, therefore, should be considered a necessary, universal and consubstantial action of human nature. Scientific practice, on the other hand, is a personal and individual action, though, not intrinsic to mankind. Both the scientist and the poet pursue truth and pleasure, but scientific truth can only be obtained in individual parts and besides that, it does not encourage the creation of an affinity with the rest of mankind, given it is an activity that is carried out in solitude:

The knowledge both of the Poet and the Man of Science is pleasure; but the knowledge of the one cleaves to us as a necessary part of our existence, our natural and unalienable inheritance; the other is a personal and individual acquisition, slow to come to us, and by no habitual and direct sympathy connecting us with our fellow-beings. The Man of Science seeks truth as a remote and unknown benefactor; he cherishes and loves it in his solitude: the Poet, singing a song in which all human beings join with him, rejoices in the presence of truth as our visible friend and hourly companion (Wordsworth 1975 738).

The *Preface* does not offer an explicit attack on scientific activity. In fact, he sometimes speaks of it and of poetic activity as companions that have the capacity to benefit each other. Poetry, in this case, would be responsible for lending a touch of emotion and feeling to science, this being regarded perhaps, as a very arid activity. However, Wordsworth uses a form of conditional expression (*if*), in a possibly deliberate way, to highlight that only when science succeeds in changing the condition of mankind, can poetry then accompany it:

If the labours of Men of Science should ever create any material revolution, direct or indirect, in our condition, and in the impressions which we habitually receive, the Poet will sleep then no more than at present, but he will be ready to follow the steps of the Man of Science (Wordsworth 1975 738).

Science is not rejected here, but a clear condition is imposed on it: only when it can demonstrate something that is able to substantially and fundamentally alter the condition of the human being, can poetry follow in its footsteps. This condition, however, completely disappears in the preface to the poem *This Lawn, a Carpet all*





Alive (1835), where the poet makes an unwonted claim in favour of scientific habits such as "analysis, decomposition and anatomization" for a clearer and deeper perception of beauty:

Some are of opinion that the habit of analysing, decomposing, and anatomising is inevitably unfavourable to the perception of beauty. People are led into this mistake by overlooking the fact that, such processes being to a certain extent within the reach of a limited intellect, we are apt to ascribe to them that insensibility of which they are in truth the effect and not the cause. Admiration and love, to which all knowledge truly vital must tend, are felt by men of real genius in proportion as their discoveries in natural Philosophy are enlarged; and the beauty in form of a plant or an animal is not made less but more apparent as a whole by more accurate insight into its constituent properties and powers. A *Savant* who is not also a poet in soul and a religionist in heart is a feeble and unhappy creature (Wordsworth 1982 668).

What is the reason for Wordsworth's shifting position between the defence and criticism of science? In relation to Wordsworth's confession in favour of an in-depth knowledge of the properties and powers of things which makes them more beautiful, A. Mackie replies claiming that "this was his theoretical opinion," and that it should not be obviated that "his dominant temper of mind was rather unscientific" (57). Certainly, the preface is an example of Wordsworth *theorizing* and defending a position of proximity or sympathy for/with science. But, does he fulfil this in TP?

4. Description of Nature and Description of the Descriptor in the Lexicon of *The Prelude*

Nº 90

87

In order to analyse Wordsworth's proximity or distance with respect to science more closely, a summary Table can be found below which lists, following an exhaustive analysis of the lexicon used in the descriptions of the nature in TP, the most frequently used adjectives, that is, those adjectives that accompany the most nouns. This analysis is not exhaustive to the extent that it does not show a total count of the number of adjectives contained within the work, but focuses only on the adjectives most frequently used in the descriptions of nature. The frequency, indicated by brackets after each noun, does not correspond to the total number of occasions that a specific noun appears in the work, but to the total number of times that said noun appears accompanied by the adjective indicated in the column dedicated to adjectives.

The chosen nouns refer to the elements or scenarios of nature that appear most frequently in landscape descriptions. The adjectives and nouns of an ambiguous, dubious nature, or those that make no direct reference to any aspect of nature, are not shown in the Table. The adjectivation of nouns like *forms*, *scene*, *mountain*, *flower*, *tree*, *sight*, *water*, *night*, among others, has also been traced. This way of exposing the



results allows easy verification of which adjectives are more frequent in the work and which are used less regularly.

ADJECTI	
VES	NOUNS/FRECUENCY
Awful	Solitude [1]; Forms [1]
Beauteous	Stream [1]; River [1]; Forms [2]; Scenes [1]; Sights [1]; Pictures [1]; Spot
	[1]; Scene [1]; World [2]; Domain [1]
Beautiful	Vales [1]; Sky [1]; Hills [1]; Day [1]
Breathless	Trees [1]; Wilderness [1]
Calm	Water [1]; Lake [1]; Waters [1]; Days [1]
Common	Countenance (earth and heaven) [1]; Haunts [1]
Dark	Night [1]; Shade [1]
Deep	Vales [1]; Haunts [1]; River [1]; Breathing-place [1]; Vale [1]
Delicious	Rivers [1]; Lakes [1]
Delightful	Rill [1]; Sounds [1]; Pathways [1]; Day [1]; Island [1]
	Hills [1]; Vales [1]; Winds [1]; Nooks [1]; Mountains [1];
Distant	Woods [1]; Sky [1]
Dusky	Lake [1]; Grove [1]; Shade [1]; Wood [1]
Endless	Sea [1]; Solitudes [1]
Enticing	Island [1]; Valleys [1]
Fair	Face of water-weeds [1]; Island [1]; Woods [1];
1'a11	Expanse (level Pasture) [1]
Famous	Spots [1]; Gardens [1]
Flowery	Gardens [1]; Vale [1]
Frosty	Wind [1]; Moon [1]
Gentle	Breeze(s) [2]; Place [1]; Banks [1]; Undulation [1]; Soane [1];
Genne	Bird [1]; Airs [1]
Gloomy	Hills [1]; Shades [1]; Pass [1]; Breathing-place [1]
Great	Nature [2]; Sea [1]
High	Places [1]; Woods [1]
Holy	Scene [1]; Ground [1]
Huge	Cliff [2]; Forms [1]; Sea of mist [1]
Invisible	Bird [1]; Haunts [1]
Kindred	Stream [1]; Scenes [1]
Little	Lake [2]; Vale [1]; Birds [1]
Living	Nature [1]; Trees [1]
Lofty	Height [1]; Elms [1]; Rocks [1]; Mountain [1]; Steeps [1]; Pinnacle [1]
Lonely	Scene [1]; Places [2]; Brooks [1]; Road(s) [3]; Mountain [1]
Lonesome	Places [1]; Journey [1]
Long	Field [1]; Lake [1]
Lordly	River [1]; Alps [1]
Lovely	Forms [3]; Tree [1]; Countenance (lake) [1]; Region [1]
Lower	Gounds [1]; Heights [1]
Lower	Gourius [1], Heights [1]

Lurking	Brooks [1]; Place [1];
Magnificent	Morning [1]; Region [1]; World [1]
Mighty	Forms [2]; Depth of waters [1]; Waves [1]; Place [1]
Native	Hills [2]; Rock [1]; Region [1]; Stream [1]
Old	Haunts [1]; Earth [1]
Open	Field(s) [4]; Turf [1]; Ground [1]
Passing	Wind [1]; Forms [1]
Pathless	Solitudes [1]; Sea [1]
Pleasant	Journey [1]; Fields [1]; Bay [1]; Wandering [1]; Flowers [1]; Sight [1];
	Brows [1]; Sound [1]; Nooks [1]
Public	Road(s) [4]
Rising	Moon [1]; Flowers [1]
Roaring	Wind [1]; Stream [1]; Sea [1]
Rural	Haunt [1]; Scenes [1]
Shady	Place [1]; Fountain [1]; Nook [1]; Woods [1]; Dells [1]
Sheltered	Grove [1]; Place [1]
Shining	Sun [1]; Water [1]; Place [1]
Silent	Lake [1]; Water [1]; Bay [1]; Trees [1]; Road [1]; Owls [1]; Rocks [2];
Silent	Zephyrs [1]; Day [1]; Night [1]; Hills [1]
Small	Island (s) [2]; Birds [1]
Soft	Nights [1]; Airs [2]; Wind [1]
Solemn	Heights [1]; Region [1]
Solitary	Hill(s) [2]; Cliffs [1]; Place [1]; Shades [1]
Splendid	Evening [1]; Place [1]
Starry	Nights [1]; Sky [1]
Stately	Groves [1]; Roads [1]; Vales [1]; Flower [1]
Steep	Rocks [1]; Hills [1]
Sublime	Shapes [1]; Willow [1]; Forms [1]
Sundry	Wanderings [1]; Forms [1]
Sweet	Stream [1]; Vale [1]; Birthplace [1]; Garlands [1]; Valley [2]
Unknown	Birds [1]; Woods [1]
Vast	Sea [1]; Regions [1]
Warm	Ground [1]; Vales and Woods [1]; Night [1]
Wild	Water [1]; Flower(s) [3]; Field [1]; Wood-honey [1]; Walks [1]; Place [1]

Table. Lexicon related to descriptions of nature in The Prelude by William Wordsworth

The data of this lexical analysis of Wordsworth's TP indicates that nature is described using very varied nuances, among which there is a preponderance of those related to what might be called the "aesthetic of emotional." The Table shows a dual use of emotional adjectives in TP. On the one hand, adjectives referring to elements of nature that generate sensations of calm and tranquillity before natural beauty stand out in Wordsworth's work: beautiful, calm, delicious, delightful, fair, gentle, lovely, soft, splendid, sweet, etc. On the other hand, the adjectives with greater expressive power like awful, beauteous, breathless, holy, lofty, lordly, magnificent, mighty, solemn,



sublime, etc. are significant given they describe the elements of nature that awaken feelings of aesthetic exaltation in Wordsworth. The imposing forms of nature are described with a lexicon that conveys the experience of the sublime lived by Wordsworth, at times an explicitly mystical-religious experience. Both realms, material nature on the one hand, and immaterial nature on the other, are the two main semantic blocks constituting the ideas of nature that Wordsworth used to describe the natural environment.

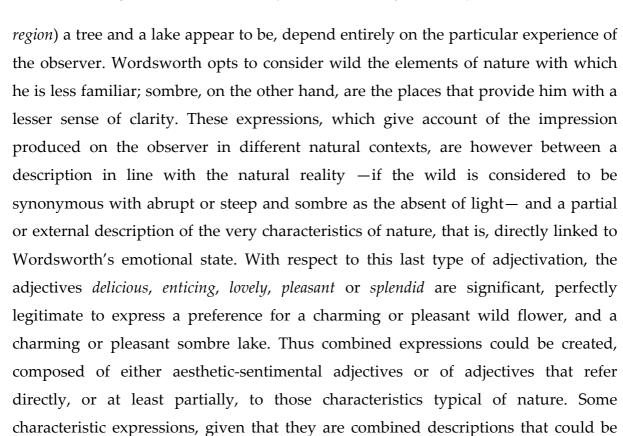
Many of the nouns appearing in TP are accompanied by unusual adjectivation, not typical of those characteristics of the element of nature they describe, but is instead related to Wordsworth's sentimental state. Adjectives of this type include: beauteous, beautiful, calm, delicious, delightful, enticing, fair, gentle, gloomy, holy, lofty, lonely, lonesome, lordly, lovely, magnificent, mighty, pleasant, silent, solemn, solitary, splendid, stately, sublime, sweet, wild. There are also ambiguous adjectives such as deep, distant, dusky, native and shady, which refer to both the properties of the landscape and to the impression of nature the observer formulates.

A certain margin of ambiguity must, however, be conceded, between what is truly characteristic of each element of nature and what is related to the mood of the poet/descriptor, as is shown by the use of expressions such as *huge cliff, soft wind, solitary hill, vast sea,* etc. Describing attributes belonging to the landscape and the elements that conform it with expressions such as *deep river, high woods, long lake, little birds,* etc. contrasts with the beautiful, soft, or splendidness that an afternoon, the wind or a soirée seem to be to Wordsworth. Both the beautiful and the soft and the splendid are expressions of common sensations in the poetic descriptions of nature and are perfectly suited to the stylistic form found in TP. However, these descriptions betray the poet and make of him an overtly sentimental and subjective descriptor. Even the depth of certain elements of nature may be conditioned by Wordsworth's particular impression, which, it must be understood, has dispensed with the necessary technique of measuring the depth of the earth.

Of course, how wild a flower and a specific place are (wild field / flower(s) / place / walks / water / wood-honey) or how gloomy (gloomy forms² / trees / countenance (lake) /

² The noun *forms* must be understood as referring to a material nature even though Wordsworth sometimes considers 'forms' as memories that have emerged from his psyche and which derive from past experiences in

eikasia



It should be stressed, however, that the relevance that could be given to the complete or partial inadequacy of such adjectivation depends on the context in which the expressions are used. In a poem like TP, the sublime as a remarkable feature of nature, or the solemnity that certain scenes of nature suggest to the observer, could be presupposed and totally comprehensible.

integrated into TP, are, for example, delicious silent road, lovely wild flower, pleasant deep

vales, enticing flowery gardens or splendid rural scenes.

Nevertheless, this type of lexicon is not relevant to a scientific study of nature. From this it could be deduced that Wordsworth's aim is to make explicit his feelings, resulting from his aesthetic valuation of nature, described with the use of an abundant adjectivation occasionally accompanied with exclamatory signs that add emphasis to the text. A clear example that manifests the Wordsworthian intention of expressing his particular vision or perception of nature is the use of the adjectives *mighty* and *stately*. It is remarkable the way the poet wishes to describe his particular perception of the strength or power of the different forms of nature. Both *mighty and*



Conceptual Basis for William Wordsworth's Rejection to Science. Lexical Analysis of The Prelude | Bárbara Jiménez

stately seem to be the adjectives that best fit the expression of the poet's perception of certain elements of nature.

In short, the vocabulary used by Wordsworth confirms that his description of nature is subordinate to the description of the feelings or mental states when he is before its presence. Wordsworth, therefore, presents an enchanted nature in the sense on which Weber presupposes an enchanted world before getting in contact with modern science (Weber 13). As it might also happen with other Romantic poets, the poet seems to become enchanted by his own emotions, but not with the world. As J. Pacho holds with respect to the different way Darwin and the Romantic poets perceive and describe nature, it could be assumed that Wordsworth behaves before nature "as a child that still can not read and looks at a book with pictures," feeling "amazed by the pictures (landscapes);" but, as he is not apparently able to understand properly the written signs, and following Pacho's analogy, it could be assumed that Wordsworth would "mistake the meaning of the images with the feelings and ideas that these images cause" (82) in him. According to this hypothesis, the insufficiency of explanatory-causal knowledge, or the total lack of it, would have generated an extreme subjectivization of the perception of nature. Certainly, the election of a vocabulary more prone to the sentimental analysis of the natural landscape than to the explanatory analysis would confirm this hypothesis.

5. Conclusions

Wordsworth's descriptions of nature show a great tendency to the description of the moods that nature induces in him, that is, the observer-descriptor, than to the description and explanation of the specific features of nature, whose meaning would be subordinate to the description of his feelings. These are, in fact, the kind of descriptions that are consistent with an "enchanted" notion (and the subsequently perception) of nature. Science could not disenchant the world if it had not been enchanted before.

It is, however, inevitable that a Romantic poet such as Wordsworth perseverates in the task of describing the inexhaustible images of nature, expressed with an emotional, enchanted language. This confirms the main objective of TP, namely, to offer an extensive description of nature just as it appears in the eyes of its observer,

eikasia



Nº 90 Noviembre diciembre 2019

as well as its effect on his mood. This path of double perception, which can be broken down into a pairing made up of primary observation and psychic assimilation, is derived in a type of poetic description that is easily contrastable with the scientific explanation of nature.

The images of nature, depicted through the use of poetic language, could logically include all kind of conceptions, including those of a "scientific" or hybrid character —those between the epic and the scientific, as for example happens in the De *Rerum Natura* by Lucretius—. Although there are no reasons to believe that Wordsworth has rejected the influence of contemporary scientific knowledge, his forced adaptation to the poetic language as a result of having been shaped at another level can be seen, one dominated by, according to L. Stevenson, "the processes of emotion and imagination": "poetry cannot simply phrase scientific formulas in metrical lines; the material must be subjected to the processes of emotion and imagination, so that when the original austere ideas of science emerge in poetry they are fantastically masked and robed. A brief scrutiny, however, reveals the ascetic beneath the mummer's garb" (7).

Prima facie, compatibility between poetic and scientific registers is difficult³. However, the interaction between content and knowledge of both fields is not entirely incompatible, although it is indeed vague: poetic emotion and imagination inevitably alter, not only the "scientific formulas," but also the way of understanding what is implied by such formulas.

The poetic and scientific registers do not converge in Wordsworth's work. Certainly, this would hardly be a feasible result if we were to take into account, according to J. S. Mill's notes, that the main purpose of poetry is to "act upon emotions," to offer "objects of contemplation that are of interest for the sensitivity" (202) to move, to stimulate, to stir emotional and aesthetic stability, to outline "the deepest and most secret mechanisms of the human heart" (204).

³ I am not referring to the multiple possibilities of integration of scientific knowledge in the poetic register and conversely, of the integrations of poetry into the scientific register. I am referring to the logical lexical and hermeneutical imbalance that would result from the creation of a strictly scientific text, dedicated for example, to the dissemination in verse of results obtained from a methodological study of a particular aspect of nature. Conversely, maybe it is even more disturbing —and virtually impossible to carry out—a precise emotional or aesthetical expression of a particular landscape through a strictly technical lexicon.



However, when the observation and perception of nature converge in a single expressive medium such as the poetic medium, descriptive poetry is generated, which, according to Mill, "consists, no doubt, in description, but in description of things as they appear, not as they *are*" (207). As Mill suggests, descriptive poetry should respond to emotional veracity and not so much to objective veracity.

We may wonder whether Wordsworth really possesses the knowledge necessary to create a description of nature closer to the objectivity that science offers. Without needing to take a radical position in the debate, it seems difficult to know the extent to which the science of the times was able to influence the work of Wordsworth. However, it is clear that he is aware of scientific progress despite the fact that he, apparently, does not consider such progress as accessible or understandable to all. At least some of the progresses in science, such as the voyages of naturalist explorers, manage to inspire Wordsworth. In terms of R. Holmes: "Mungo Park's story inspired a number of poets. Wordsworth included a passage about Park 'alone and in the heart of Africa' in an early version of The Prelude" (232).

Nevertheless, the results obtained from Wordsworth's lexical analysis show that his defence of certain scientific habits is hardly compatible with his attitudes and with the output of his poetic writings. The seemingly unifying vision of science and poetry, as well as the fervent defence of scientific analysis as an enhancer and maximizer of aesthetic experience, do not appear in TP. Science is indeed explicitly despised because of its divisive study of nature.

The view of nature that science offers would not be compatible with the unitary perception of nature that Wordsworth derives from his observation of it. He considers, therefore, science to be an alternative approach to nature, with methods of analysis that allow its observation from other points of views that are not too revolutionary. According to A. Nichols (307), the cryptic and enigmatic tone of Wordsworth's nature poetry proves that, despite having a close relationship with science and with the works of restless travellers, these discoveries cannot be considered as new paradigms in science that have altered the conception of the world that existed at the time. The descriptions of new landscapes serve Wordsworth to create a new poetry, one that was more profound and fascinating, but that did not alter his worldview.



The academic relationship between the English Romantic poet Samuel Taylor Coleridge and the chemist Humphry Davy reinforces the idea that advances in the science of the times did not transform the way that Romantic poets conceived the world. Coleridge filled several notebooks with Davy's lectures and public experiments at the Royal Institution. In fact, to those questions posed regarding his assiduity to Davy's classes, according to J. A. Paris, Coleridge replied that they served him "to increase my stock of metaphors" (138). Coleridge's response shows that attending scientific events is inspiring; the progressive knowledge of the secrets of the world and of mankind generates such fascination in the poet that his poetry becomes more striking and intense.

For his part, Wordsworth does not need science to achieve unity between the observer and observed nature, and thus be able to perceive the natural landscape as a whole made up of interconnected elements. Nature is understood by the poet as a "universal symphony" (Garstang 4) charged with meaning, that can only be understood through feeling, not through the reason that prevails in the conception of the world that science proposes.

It is difficult denying a fact as evident as the connection between science and Romanticism but we consider this relationship as the way that Romantic poets gained a more complete understanding of the secrets of the workings of nature's elements. However, knowing whether or not Wordsworth was aware of the latest advances in science is not what is of concern, rather the issue is about understanding whether this had any influence on his poetry. Therefore, it could be possible to confirm that if Wordsworth had not assumed an "enchanted" notion of nature, he would have comprehended that although scientific knowledge is certainly not necessary to describe natural beauty, it should not be an impediment either.

The lexicon used in TP confirms the hypothesis that a lack of scientific knowledge, —or lack of interest in it— probably led Wordsworth to make descriptions of nature that responded to the feelings that the natural landscape awoke in them, rather than to the characteristics of the landscape itself. I therefore presume that Wordsworth's attitude towards science is the result of the assumption of an "enchanted" notion of nature.



Works Cited

- Austin, Frances (1989) The Language of Wordsworth and Coleridge. London, Macmillan.
- Bewell, Alan (2017) *Natures in Translation: Romanticism and Colonial Natural History*. Baltimore, Johns Hopkins University Press.
- Bonacina, L. W. C. (1944) "Wordsworth and Science". Nature, no. 153, p. 716.
- Bush, Douglas (1950) *Science and English Poetry: A Historical Sketch, 1590-1950.* New York, Oxford University Press.
- Cooper, Lane (1911) *A Concordance to the Poems of William Wordsworth*. London, Smith, Elder & Co.
- Dawkins, Richard (1998) *Unweaving the Rainbow: Science, Delusion and the Appetite for Wonder*. Boston, Houghton Mifflin Company.
- Dilthey, Wilhelm (1989-2010) *Selected Works*. Ed. Rudolf A. Makkreel and Frithjof Rodi. 5 Vols. Princeton, Princeton University Press.
- Durrant, Geoffrey (1970) Wordsworth and the Great System: A Study of Wordsworth's Poetic Universe. Cambridge, Cambridge University Press.
- Evans, B. Ifor (1954) Literature and Science. London, George Allen and Unwin.
- Gane, Nicholas (2002) Max Weber and Postmodern Theory: Rationalization versus Reenchantment. New York, Palgrave.
- Gaull, Marilyn (1979) "From Wordsworth to Darwin: 'On to the Fields of Praise'". Wordsworth Circle, no. 10, Issue 1, pp. 33-48.
- Gaull, Marilyn (2015) "Wordsworth and Science". *The Oxford Handbook of William Wordsworth*. Eds. Richard Gravil and Daniel Robinson. Oxford, Oxford University Press.
- Garstang, Walter (1926) "Wordsworth's Interpretation of Nature." *Nature* (supplement), no. 117, Issue 2933, pp. 1-8.
- Holmes, Richard (2009) *The Age of Wonder: How the Romantic Generation Discovered the Beauty and Terror of Science*. London, Harper Press.
- Hughes-Hallett, Penelope (2000) The Immortal Dinner. London, Viking.
- Jeffrey, Lloyd N. (1967) "Wordsworth and Science". South Central Bulletin, vol. 27.
- Josephson-Storm, Jason A. (2017) *The Myth of Disenchantment: Magic, Modernity, and the Birth of the Human Sciences*. Chicago, The University of Chicago Press.
- Keats, John (1978) *The Poems of John Keats*. Ed. Jack Stillinger. Cambridge (Massachusetts), The Belknap Press of Harvard University Press.
- Kontos, Alkis (1994) "The World Disenchanted and the Return of Gods and Demons". *The Barbarism of Reason: Max Weber and the Twilight of Enlightenment*. Ed. A. Horowitz and T. Maley. Toronto, University of Toronto Press, pp. 223-247.
- Koshul, Basit Bilal (2005) The Postmodern Significance of Max Weber's Legacy: Disenchanting Disenchantment. New York, Palgrave.
- Mackie, Alexander (1906) *Nature Knowledge in Modern Poetry*. London, The Aberdeen University Press.



- Manier, Edward (1978) *The Young Darwin and his Cultural Circle*. Studies in the History of Modern Science, Vol. 2. Dordrecht, D. Reidel Publishing Co.
- Marquard, Odo (1986) Apoligie des Zufälligen. Stuttgart, Reclam.
- Mill, John Stuart (1897) "What is Poetry?" *Early Essays*. Ed. J. W. M. Gibbs. London, George Bell and Sons, pp. 201-217.
- Nichols, Ashton (2005) "Roaring Alligators and Burning Tygers: Poetry and Science from William Bartram to Charles Darwin". *Proceedings of the American Philosophical Society* no. 149, Issue 3, pp. 304-315.
- O'Connor, Ralph (2007) *The Earth on Show: Fossils and the Poetics of Popular Science,* 1802-1856. Chicago, Chicago University Press.
- Pacho, Julián (2005) Positivismo y Darwinismo. Madrid, Akal.
- Paris, John Ayrton (1831) *The Life of Sir Humphry Davy*. II Vols. London, Henry Colburn and Richard Bentley.
- Plumly, Stanley (2014) *The Immortal Evening: A Legendary Dinner with Keats, Wordsworth, and Lamb.* New York, W. W. Norton.
- Schroeder, Ralph (1992) *Max Weber and the Sociology of Culture*. London, Sage Publications.
- Stevenson, Lionel (1932) *Darwin among the Poets*. Chicago, The University of Chicago Press.
- Turner, John (1990) "Wordsworth and Science". *Critical Survey*, vol. 2, no. 1. Science and the Nineteenth Century, pp. 21-28.
- Valenza, Robin (2009) *Literature, Language, and the Rise of the Intellectual Disciplines in Britain, 1680-1820.* Cambridge, Cambridge University Press.
- Weber, Max (2004) "Science as a Vocation". *The Vocation Lectures*. Ed. David Owen and Tracy B. Strong. Trans. Rodney Livingstone. Indianapolis and Cambridge, Hackett Publishing Company, pp. 1-31.
- Whitehead, Alfred North ([1925] 2011) *Science and the Modern World*. New York, Cambridge University Press,
- Wordsworth, William (1928) *The Prelude, or Growth of a Poet's Mind*. Ed. Ernest de Sélincourt. London, Oxford University Press.
- Wordsworth, William (1975) *Wordsworth: Poetical Works*. Ed. Thomas Hutchinson. London, Oxford University Press.
- Wordsworth, William (1982) *The Complete Poetical Works of Wordsworth*. Ed. Paul D. Sheats. Boston, Houghton Mifflin Company.
- Wyatt, John (1995) Wordsworth and the Geologists. Cambridge, Cambridge University Press.

97

