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ABBREVIATIONS IN ENGLISH MILITARY TERMINOLOGY

Abstract

This article presents an overview of classification and taxonomic arrangement of abbreviations in English military terminology and analyzed from two perspectives – orthographic and morphological. Previous works in this field provide sometimes conflicting categorizations, thus showing a need for a more consistent approach and classification. The work aims to provide an outline of what a typical military abbreviation consists of and how it is created. The properties of abbreviations are analyzed in terms of their length, the length of their source phrases, source phrase elements used and omitted in the creation of abbreviations, and the elements used in their creation, i.e. initials and splinters. The abbreviations are grouped according to several criteria.

Key words

Abbreviations; acronyms; alphabetisms; blends; clippings; military terminology; morphology; orthography

1. Introduction

According to Algeo, shortening and blending are the third and the fourth most productive processes of forming neologisms respectively, and neologisms from the military lexicon were among the first recorded ones in 1941 (1991: 14–15). This underlines the importance of studying abbreviations, and we chose to analyze them in terms of their orthography and morphology.

Harley states that the first initialisms proliferated in the domain of American bureaucracy and then spread onto the American Army which showed a tendency to abbreviate a majority of new terms used (2006: 96–97). Since the military lexicon represents a productive part of the English vocabulary, due to an increasing

number of weapons, technologies, and organizations, and since some of the first neologisms stem from it, the idea was to narrow down the scope of research to this particular field of English vocabulary. The work aims to provide answers to the following research questions:

1. How are letters and initials arranged in initialisms? Is the one-letter-per-one-source-phrase-constituent pattern used or are more irregular patterns of creation used?
2. What is the average number of letters in abbreviations? What is the ratio of initials/splinters in abbreviations and the number of constituents in source phrases?
3. What is the most common word class in initialisms, blends, and hybrid forms of clippings and initialisms, and their source phrases?
4. Are both lexical and function words used in the creation of abbreviations and which word type is omitted more often? How common are function words in the formation of abbreviations and why?

It was also our intention to test whether initialisms (alphabetisms and acronyms) are more numerous abbreviations in the military lexicon, as they are often used in highly specialized registers, whereas blends are more used with a jocular and attention-catching intent, and thus used in less formal registers. However, due to a limited and a somewhat arbitrary corpus selection, this question could not have been answered with complete certainty and requires further research in the field of formality of use.

2. Terminology and classification

One of the rare properties of abbreviations that most authors agree upon are the discrepancies in their typologies and a lack of clear-cut borders between categories. López Rúa states that there is a great deal of inconsistency even between what an acronym in general is and what proper abbreviation, a clipping, a blend or a hybrid, including features of two or more of the above are (2004: 110). Cannon (1989) notes how some of the earlier attempts of classification and systematization in this field brought only more confusion as authors often included certain *blends* and *clippings* into their corpuses of *acronyms*. Gale's dictionaries, for instance, elicit some textbook examples of *blends* (like *motel*, *brunch* and *smog*) as *acronyms* and not *blends* (Crowley and Sheppard 1987, Sheppard and Towell 1987). Similar examples of historically wrongly classified abbreviations are listed in Fischer's work as well (1998: 28). Another reason for this confusion, according to Cannon (1989), is the dictionary practice of listing various types of contracted word forms into the category of abbreviations since the fifteenth century, and this confusion was continued in the twentieth century.

2.1 Inconsistency in terminology and classification of abbreviations

The lack of consistency has been highlighted in recent times even more. The proliferation of “modern” abbreviations from areas such as computer and technical sciences, military, governmental and non-governmental agencies, and even various modes of electronic communication, such as instant messaging and text messaging, blurred the borders between the categories even further (López Rúa 2007).

Another discrepancy within this field may be observed in the name of the process, or better, the processes by which the abbreviations are created. Authors mostly agree that abbreviations do not fall into the field of traditional morphology, since the elements used in their creation are units smaller than morphemes. Because of this, Plag (2003) distributes the abbreviations into two distinct processes of “derivation without affixation”. Since prosodic features play a more vital role in the creation of blends and clippings they belong to the “prosodic morphology”, while orthography is considered more vital for the creation of *initialisms* and *alphabetisms*. Still, both groups have a loss of certain word elements in common, unlike adding new material to words, as is the case with affixation. Alternatively, in works of Fandrych (2008a, 2008b) and López Rúa (2006), the process by which abbreviations are created is named “non-morphological word formation”. Fandrych, however, adds an additional term to this process which we deem more appropriate – “submorphemic word formation”, which implies that the elements involved are smaller than morphemes, while the former term would imply that there are not any morphemes involved at all. The elements used in the creation of abbreviations are thus initials for *initialisms*, which Fandrych denotes as *acronyms*, and splinters for *blends* and *clippings* (2008a). Thus, the most appropriate general term for all words created through truncation of some kind seems to be *abbreviations*, since all constituent words are abbreviated, in one way or the other.

2.2 Simple and complex shortenings

The taxonomy of abbreviations in our work is taken from López Rúa’s work (2004: 123–124), who elicits works of Kreidler (1979), Quirk et al. (1985) and Algeo (1991) as sources of her taxonomy. On a general level, she makes a distinction between *simple* and *complex shortenings*. Complex shortenings are those which occur in both written and spoken form, i.e. *initialisms*, *blends* and *clippings*. Simple shortenings are those that can be found only in written form, while in the spoken language they appear in the form of their full phrases, i.e. as *proper abbreviations*, such as prof., dr., and Mr. López Rúa (2006) states that the combination of some of these abbreviations can lead to them evolving to complex types of abbreviations, i.e. *blends*, *clippings* and *initialisms*.

Complex shortenings include three main groups – *blends*, *clippings* and *initialisms*, with the latter comprising *acronyms* and *alphabetisms*. The group of *alphabetisms*, i.e. the group involving both items “spoken as individual letters” and “pronounced as single words” (Crystal 1995: 120), seems to be the most trou-

blesome, as this is where the opinions of many authors diverge. Cannon (1989) and Harley (2006) use the same term – *initialisms*, but they divide the group into *acronyms* and *abbreviations*, and the latter term seems more suitable to be the “umbrella term” for all words created in this fashion because, in our opinion, it denotes the main property of its subgroups, i.e. the words created by abbreviating words and phrases. Plag (2003) uses the same terms as Cannon and Harley, but he makes *abbreviations* superordinate to *initialisms* and *acronyms*. Jackson and Zé Amvela (2005) use the same subordinate terms as Plag – *acronyms* and *initialisms*, but they use the term *shortenings* to be the superordinate term of this group, which includes *clippings* and *aphetic forms* (‘cause < because). Crystal (1995) and Stockwell and Minkova (2001) do not follow the practice of providing different terms for superordinate and subordinate terms. Instead, they use *initialisms* and *acronyms*, with the *acronyms* being the subgroup of the *initialisms* in Crystal’s work, and the *initialisms* being the subgroup of *acronyms* in Stockwell and Minkova’s work. In her two works, Fandrych proposes a distribution similar to Stockwell’s, i.e. *acronyms* and *abbreviations*, with *acronyms* as the superordinate term for the group (2008; 2008a). Interestingly, in Fandrych’s classification *initialisms* are not mentioned.

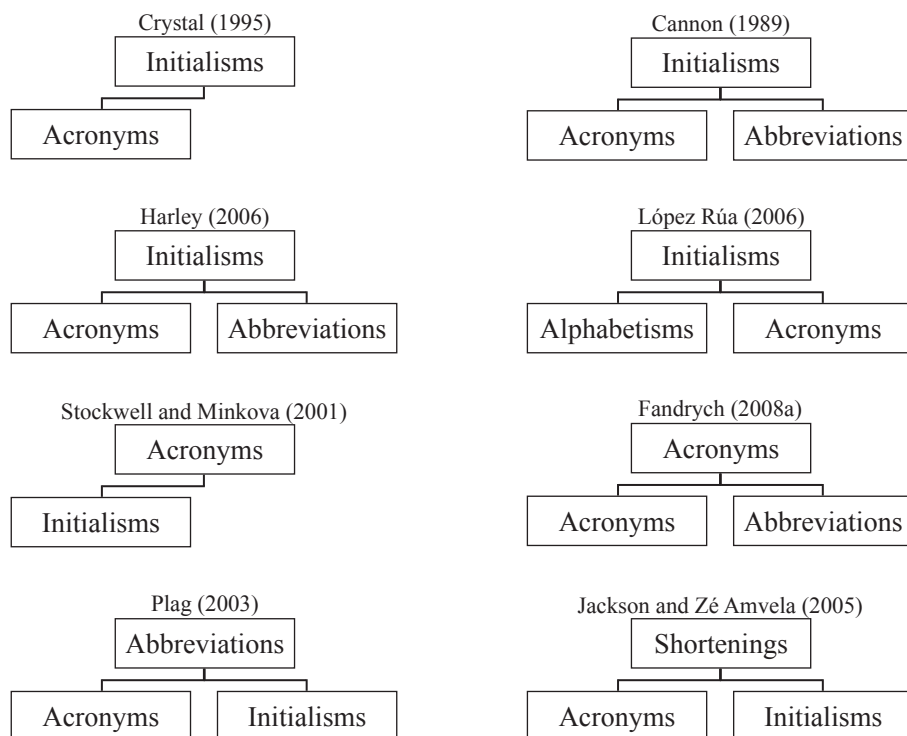


Figure 1. An overview of taxonomies for initialisms, alphabetisms and acronyms of cited authors

2.3 A tentative taxonomy of abbreviations

Ultimately, López Rúa (2006) divides *abbreviations* into two mentioned groups of *complex* and *simple* shortenings, with the former divided into *clippings*, *blends* and *initialisms*, and the last group into *alphabetisms* and *acronyms*. *Simple shortenings* occur only in written form and encompass *proper abbreviations*. It should be noted that almost all authors covered place *blends* and *clippings* into *shortenings*, with the exception of Jackson and Zé Amvela who regard them separately from other abbreviations.

We consider López Rúa's approach to be the most appropriate way of classifying *abbreviations*, especially the groups of *acronyms* and *alphabetisms*, for three main reasons. Firstly, we find it important for superordinate and subordinate terms to be different so as to avoid confusion. Secondly, the chosen terms should fit the properties of the named category; which in case of the term *initialism* denotes that the words of the category are created from initial letters of the constituent words and phrases, and the *alphabetism* denotes that the members of the category are pronounced letter by letter. Thirdly, despite their presence in written medium only, the group of *proper abbreviations* should not be ignored or confused with other types of *abbreviations*, as was the case not only with earlier dictionary practice, but some contemporary works as well. For instance, Cannon mentions the case of eliciting D.B.S. 'de bonis suis' as an *abbreviation*, whereas Plag denotes the *proper abbreviations* BSc 'Bachelor of Science', Inc. 'Incorporated', Norf. 'Norfolk', Ont. 'Ontario', and kHz 'kilohertz' as *abbreviations*.

According to López Rúa, an *initialism* is "the result of selecting the initial letter, or occasionally the first two letters, of the orthographic words in a phrase and

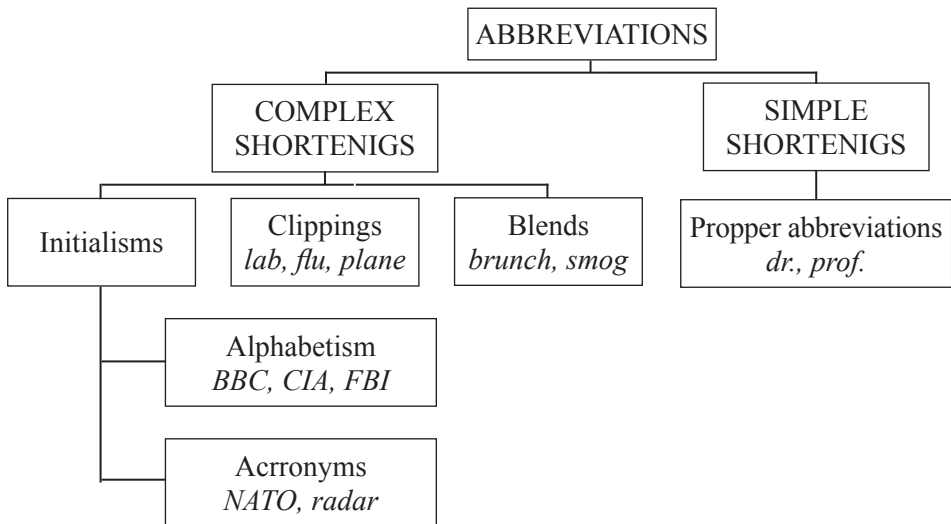


Figure 2. Taxonomy of abbreviations by López Rúa used in this work

combining them to form a new sequence.” Pronunciation of the words created in this fashion depends on various linguistic factors, but the two major ways for these words to be pronounced are either as a word (*prototypical acronyms*) or as a series of letter names (*prototypical alphabetisms*) (2006: 677). There are also some examples of *initialisms* being pronounced in both ways (VAT/Vat from ‘Value Added Tax’) and as a combination of the two (CD-ROM from ‘compact disc read-only memory’), but these are far less frequent ways of pronunciation. *Clipping* is described as a “process by which a word-form of usually three or more syllables is shortened without a change in meaning or functions” (2006: 676). These abbreviations are somewhat arbitrary regarding the part of the word that gets truncated, and although they have informal connotations, there are examples of *clippings* replacing their source phrase (bus < omnibus). The last type of complex abbreviations, i.e. *blends*, is created by joining two or more word-forms through simple concatenation or overlap and then by shortening at least one of them (2006: 677).

It can be seen that any attempt at defining and categorizing abbreviations stands on weak ground, as authors tend to name and classify those relatively “purer” abbreviations in different ways (by “purer” we mean those which distinctly belong to a single clear-cut category, rather than displaying features of two or more abbreviation types). Another problem is that some abbreviation types are very elusive and many of them exhibit hybrid features, i.e. characteristics of several abbreviated forms. However, they have some properties in common and these shared characteristics will provide the basis for our work.

3. Corpus analysis

The research was conducted on a limited corpus of abbreviations taken from the 3rd edition of Richard Bowyer’s *Dictionary of Military Terms*. Not all abbreviations from the dictionary were used in the corpus, as a corpus encompassing all abbreviations would have made this work far too large for a single article. The abbreviations were selected in such a way that they are among the most commonly used ones and that they represent different fields of military terminology and are thus representative of the military lexicon. The corpus comprises 121 abbreviations, distributed into two major abbreviation types – initialisms and blends. Initialisms are represented with 89 examples – 52 alphabetisms and 37 acronyms, while blends are represented with 23 examples. There are also nine examples of abbreviations which are created through a combination of clipping and initialism and are dealt with separately. The abbreviations of the corpus are predominantly nouns – 109, while there are five adjectives, three verbs, one adverb and three abbreviations that can be considered both as adjectives and adverbs. The list of abbreviations analyzed in our work is given in the appendix, distributed into three mentioned types in the following order: initialisms, blends, and the hybrid combination of clippings and initialisms along with their full forms of source phrases.

Of the abbreviations in the corpus, the initialisms are used in the most lexical fields of military lexicon, ranging from weaponry and technology, rank, logistics, training, to organization and operations in the field. Blends are limited to several fields: equipment and technology, military organization and procedures, while abbreviations created through clipping and initializing are limited to two semantic fields – organization and technology.

The corpus is analyzed on two levels – orthographic and morphological. Orthographic level deals with the number of elements of abbreviations and their source phrases (average number and patterns of arrangement of initials and splinters and their ratio to source phrase constituents), as well as the ways of their graphic presentation, while the morphological level considers the word classes of abbreviations and their source phrase elements, and the usage or omission of lexical and function words.

To our knowledge, the only approach similar to the one in this work can be found in Cannon's work (1989), which deals exclusively with initialisms. In addition, some works focus on various aspects of just one type of abbreviation, such as Gries (2004a, 2004b), whereas the other works deal with abbreviations from various other perspectives, such as semantics (Lehrer 1998), productivity (Bauer 2003, Lehrer 2007), taxonomy (López Rúa 2004), or from an interdisciplinary perspective (Fandrych 2008). However, the core approach of this work is not taken from any of the previous works. One of the aims was to show how different previous approaches to the classification of abbreviations make their analysis more difficult, and, by comparing them, to see which principle in their classification would be the most appropriate one.

3.1 Orthographic analysis

The main scope of the orthographic analysis is to determine the patterns of arrangement of letters and initials/splinters in abbreviations and the ratio of initials or splinters to source phrase constituents (research questions 1 and 2, cf. §1). The length and arrangement of these elements in their respective abbreviations is analyzed in order to provide a different perspective than that given through the analysis of the number of letters, i.e. to show the usage of elements considered essential in the creation of respective abbreviation types. In the analysis of source phrases, compounds such as 'anti-aircraft' in AAA 'anti-aircraft artillery' and 'take-off' in VTOL 'vertical take-off and landing' are counted as one word.

Among the criteria used in the analysis of our corpus, two are applied for all abbreviations, as they can be examined in all four abbreviation types, while some additional criteria are applied individually. The following criteria are applied for all abbreviation types:

- their length, in terms of number of letters used; and
- the length of their source phrase, in terms of number of source phrase constituents.

The additional criteria for initialisms are:

- the relation between the length and the number of source phrase constituents; and
- the size and arrangement of initials.

The pronunciation is also analyzed for acronyms, while such analysis for alphabetisms is deemed superfluous since their definition states they are pronounced letter by letter.

The additional criteria for blends are:

- size and relation of splinters; and
- omission of elements.

There is just one additional criterion for clippings and initialisms – the arrangement of splinters. Each of the categories created by these criteria is followed up by five examples or less if the category has less than five examples. The only exception is the second criterion, the source phrase length, which is limited to a single example for brevity's sake.

The reason the mentioned criteria are used is to show various properties of each abbreviation type – the range of length and the most common length, parts of source phrases used in each abbreviation type, the relation between the abbreviation length and source phrase length and the size and arrangement of initials and splinters.

Other orthographic aspects taken into consideration are the usage of capital and lower case letters, and the usage of symbols other than letters. The analysis of our corpus reveals that all abbreviations are written entirely in capital letters, meaning most of them have not been lexicalized yet, with the exception of C-in-C 'Commander in Chief' and L of C 'line of communication' in which the prepositions connecting the two source phrase parts are written in lower case. There are some examples of abbreviations with non-letter characters, such as numeric or typographic symbols (Cannon 1989: 108–110) and there are two such examples of abbreviations in our corpus – R&R 'rest and recuperation' using the ampersand symbol, and METT-T 'mission, enemy, terrain, troops available, time' using the hyphen. It is our opinion that the hyphen is used instead of the letter "A" to make this abbreviation, which serves as a mnemonic device for officers, more comprehensible and as short as possible. Had the form METTT been used, the third 'T' would probably often be forgotten as the pronunciation of METTT would be [met], identical to the pronunciation of METT, thus causing an occasional omission of the last 'T'.

There are other similar examples of abbreviations using such symbols which are not included in this corpus for brevity's sake, such as 2IC 'second in command, AAV-7A1 'amphibious assault vehicle seven', AEW & C 'airborne early warning and control', L/Cpl 'lance corporal' and P-INFO 'public information. It should be noted that the usage of numerical symbols is very prominent in the field of weaponry and vehicles, e.g. A-4, A-10, B-1, B-52, F-22, Mi-35, etc. However, these forms refer to various models of certain weapons and vehicles, without a full form they refer to.

3.1.1 Orthographic analysis of alphabetisms

The most common alphabetisms in our corpus are the 3-letter ones, encountered in 35 examples (67.35% of alphabetisms), followed by 4-letter (21.15%), 2-letter (9.62%) and 5-letter alphabetisms (1.92%). Their average length (the sum of all letters in all abbreviations divided by the number of abbreviations) is 3.15 letters. The ones shown below are the examples of their respective categories:

2-letter alphabetisms	IO, IR LZ, PO, XO
3-letter alphabetisms	AAA, DOA, EOD, MIA, WMD
4-letter alphabetisms	ATGW, CINC, CSAR, ECCM, MAOT
5-letter alphabetism	ABCCC

The most common length of source phrase is three words, encountered in 33 abbreviations (63.46%), followed by 4-word source phrases (17.31%), 2-word source phrases (13.46%) and 1-word, 5-word and 7-word source phrases, comprising 1.92% each. The average length of alphabetism source phrase is 3.12 words. The examples are:

1-word alphabetism source phrase	‘infrared’
2-word alphabetism source phrase	‘intelligence officer’
3-word alphabetism source phrase	‘Army Air Corps’
5-word alphabetism source phrase	‘combat search and rescue’
4-word alphabetism source phrase	‘airborne command, control and communications’
7-word alphabetism source phrase	‘Organization of Security and Cooperation in Europe’

When contrasting the length of each alphabetism with its number of source phrase constituents, we may distribute them into three distinct categories: a) alphabetisms with more letters than source-phrase constituents, comprising nine alphabetisms (17%); b) alphabetisms with equal number of letters and source phrase constituents, comprising 39 alphabetisms (75%); and c) alphabetisms with fewer letters than source phrase constituents, comprising four alphabetisms (8%, see Figure 3).

From this it would seem that for the majority of alphabetisms analyzed in this corpus each source phrase constituent is represented by one letter, with the exceptions to this rule making up for 25% of alphabetisms. However, if we examine the length of alphabetisms in terms of the number of initials, we come to a different distribution. Since initials may consist of one or two letters, the alphabetisms may be distributed into alphabetisms in which the number of letters coincides with the number of initials, i.e. alphabetisms in which each source phrase constituent used in the abbreviation is represented by a single letter, and alphabetisms in which there are more letters than initials, i.e. alphabetisms in which source phrase

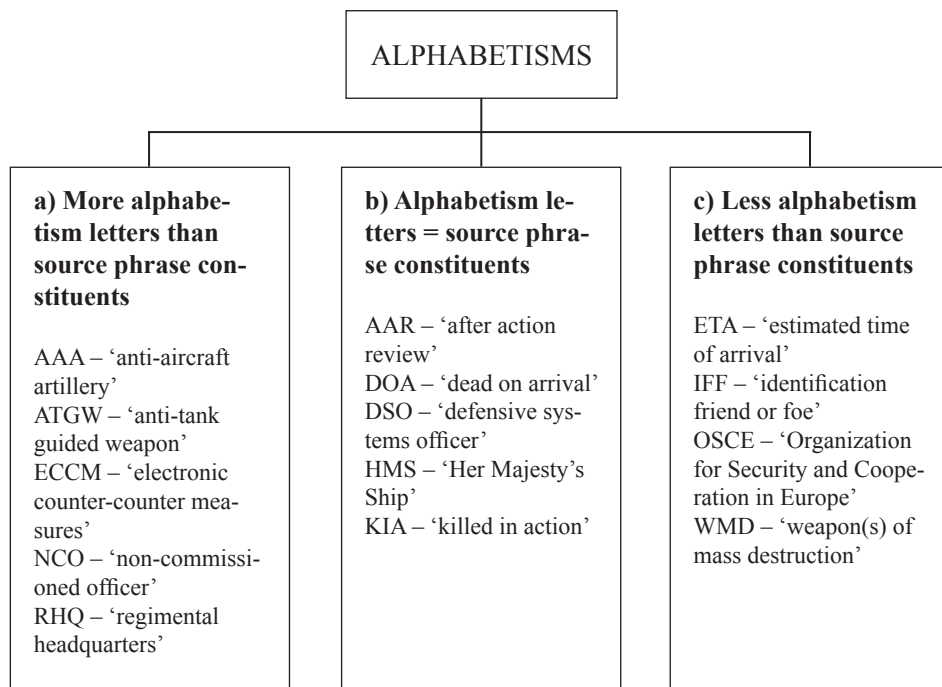


Figure 3. Distribution of alphabetisms according to the ratio of their length and number of source phrase constituents

constituents can be represented by two letters. The majority of alphabetisms in this corpus (41) use one letter per source phrase constituent, while there are 11 of those which use two letters per constituent. Those which use two-letter initials are further categorized into alphabetisms in which the two-letter initial is placed a) in the initial position; b) in the middle position; and c) in the final position, as shown in Figure 4:

These alphabetisms can be further divided into three subgroups according to the source of the two-letter initial:

- alphabetisms with a compound in the source phrase connected by a hyphen, taking one letter from each part of a compound (6 alphabetisms), e.g. AAA ‘anti-aircraft artillery’, AAM ‘air-to-air missile’, ATGW ‘anti-tank guided weapon’, ECCM ‘electronic counter-counter measures’, NCO ‘non-commissioned officer’;

- alphabetisms in which two letters from a single source phrase word are taken (3 alphabetisms) – ABCCC ‘airborne command, control and communications’, IR ‘infrared’ and RHQ ‘regimental headquarters’; and

- alphabetisms in which a preposition connecting the two source phrase constituents is not abbreviated at all (2 alphabetisms) – CINC/C-in-C ‘Commander in Chief’ and L of C ‘line of communication’.

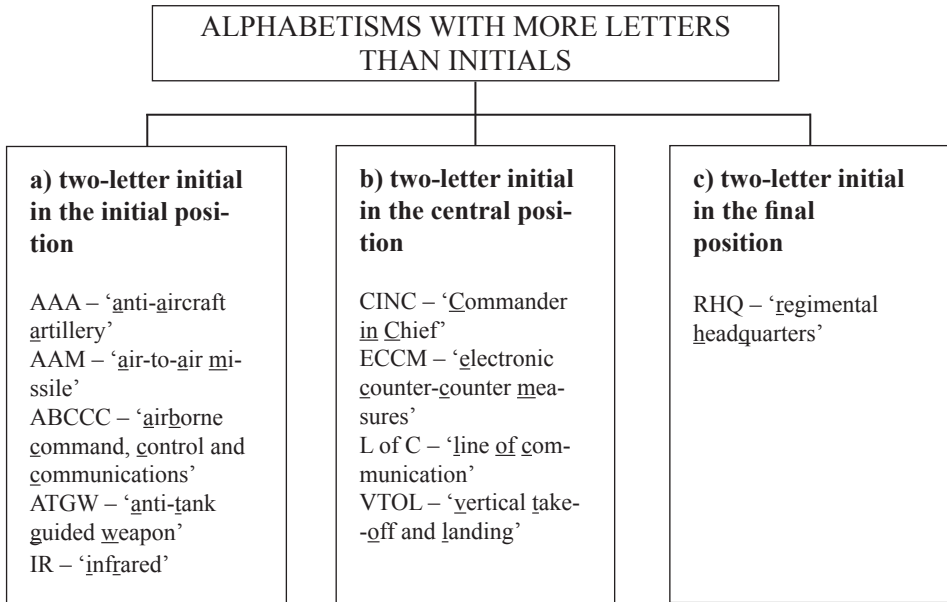


Figure 4. Distribution of alphabetisms with two-letter initials according to arrangement of initials

Also, while alphabetisms, and acronyms for that matter, sometimes use the first one or two letters of the source phrase constituents, there is an example in our corpus of an alphabetism using only the second letter of the source phrase constituent – XO ‘executive officer’. It is our opinion that this is done to facilitate comprehension – one may connect the letter ‘x’ to ‘executive’ with more ease than one would with the letter ‘e’. This is the only example of an abbreviation using the second letter of the source phrase constituent and omitting the first.

3.1.2 Orthographic analysis of acronyms

The most common length of acronyms is four letters (45.95%), followed by five letters (27.03%), three letters (13.51%), six letters (8.11%) and seven and eight letters (2.78% each), while the average acronym length is 4.49 letters.

- | | |
|-------------------|-----------------------------------|
| 3-letter acronyms | HOT, JAG, ROM, TOW, WAC |
| 4-letter acronyms | AWOL, DMPI, FLOT, FROG, HALO |
| 5-letter acronyms | AWACS, DIBUA, FAARP, FIBUA, MILES |
| 6-letter acronyms | JSTARS, SACLOS, SALUTE |
| 7-letter acronym | ANGLICO |
| 8-letter acronym | SERPACWA |

The most common length of acronym source phrase is four words, shown in 12 examples (32.43%), followed by the length of three words (29.73%), five words (16.22%), six words (13.51%), seven words (5.41%) and eight words (2.70%), while the average length is 4.53 words. By comparing these values to those for alphabetisms, we may see that the average acronym of this corpus is longer than the average alphabetism by 1.34 letters, while the average acronyms' source phrase is longer by 1.41 words.

3-word acronym source phrase	'absent without leave'
4-word acronym source phrase	'defence in built-up areas'
5-word acronym source phrase	'forward arming and refuelling point'
6-word acronym source phrase	'mission, enemy, terrain, troops available, time'
7-word acronym source phrase	'joint, surveillance and targeting attack radar system'
8-word acronym source phrase	'skin exposure reduction paste against chemical warfare agents'

Like alphabetisms, the acronyms of our corpus are also divided into three distinct groups by contrasting their length and the number of their source phrase constituents: a) acronyms with more letters than source-phrase constituents, comprising

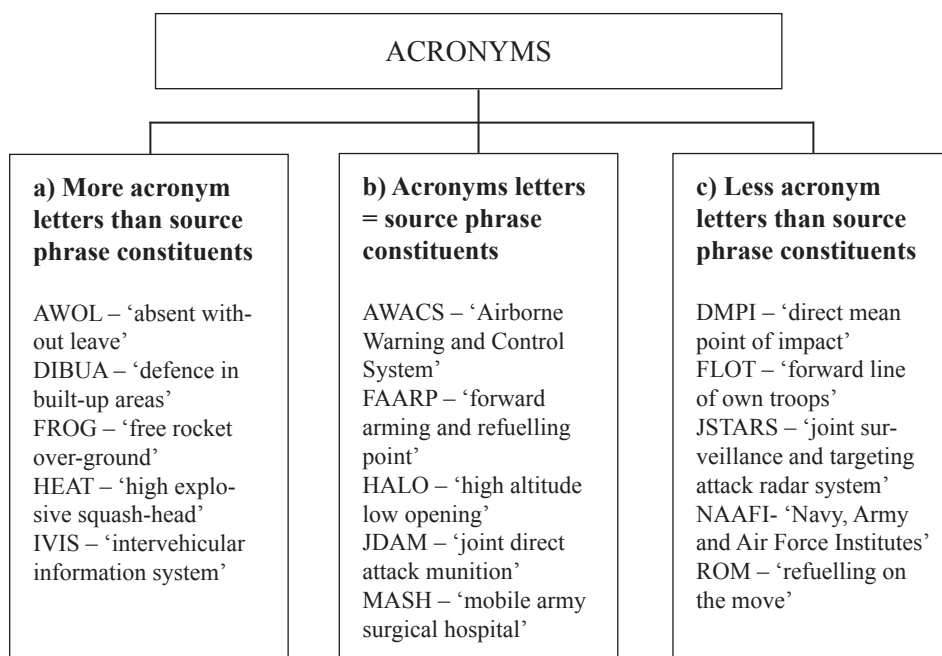


Figure 5. Distribution of acronyms according to the ratio of their length and number of source phrase constituents

13 acronyms (35%); b) acronyms with equal number of letters and source phrase constituents, comprising 15 acronyms (41%); and c) acronyms with less letters than source phrase constituents, comprising nine acronyms (24%).

Like alphabetisms, acronyms of our corpus can be further divided into a) those in which each source phrase constituent is represented by a single letter, i.e. the number of letters is the same as the number of initials, comprising 23 acronyms, and b) those in which source phrase constituents can be represented by two-letter initials, i.e. those in which there are more letters than initials, comprising 14 acronyms. The ratio of those acronyms in which two-letter initials are used (37.8%) is slightly higher than that for alphabetisms (21%). The acronyms with two-letter initials are also distributed according to the position of the two-letter initial, as shown in Figure 6.

These acronyms with two-letter initials can be further divided into two groups according to the source of the two-letter initials:

(a) acronyms with a compound in the source phrase connected by a hyphen, taking one letter from each part of a compound (10 acronyms), e.g. DIBUA ‘defence in built-up areas’, FIBUA ‘fighting in built-up areas’, HARM ‘high-speed anti-radiation missile’, HEAT ‘high explosive anti-tank’ and LRRP ‘long-range reconnaissance and patrolling’; and

(b) acronyms in which two letters from a single source phrase word are taken (four acronyms) – ANGLICO ‘air naval gunfire liaison company’, AWOL ‘ab-

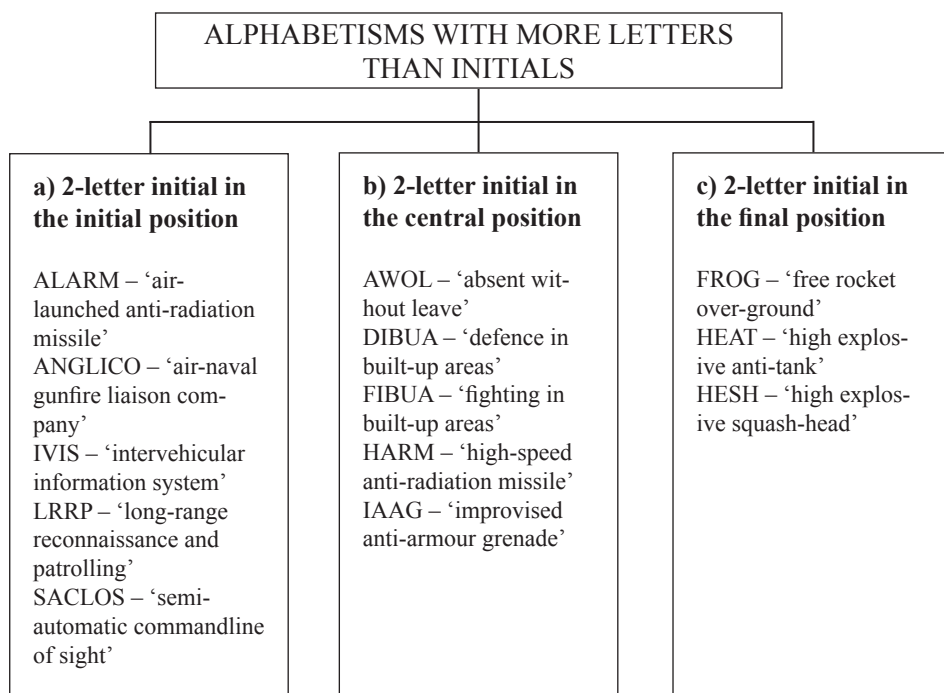


Figure 6. Distribution of acronyms with two-letter initials according to arrangement of initials

sent without leave', IVIS 'intervehicular information system' and SEAL 'sea, air, land'. It is our opinion that the motivation for the inclusion of additional elements is, similarly to such examples with alphabetisms, facilitation of pronunciation and comprehension.

Regarding pronunciation, there are some acronyms which blur the line between the two categories of initialisms, and such categories are mentioned by Cannon (1989) and López Rúa (2006). DMPI ['dɪmpɪ] and LRRP [lɜ:p] represent those abbreviations that appear to be alphabetisms, but are actually acronyms and are pronounced as single words (Cannon 1989), while JDAM ['dʒeɪdæm], JSTARS [ɪdʒeɪ stɑ:z] and METT-T [ˌmet'ti:] are pronounced as a combination of the two types of initialisms, i.e. alphabetisms and acronyms (López Rúa 2006).

3.1.3 Orthographic analysis of blends

The blends of this corpus are mostly five letters long (39.13%), followed by 6-letter (30.43%), 7-letter (21.74%), and 8-letter blends (8.70%), while their average length is six letters, e.g.:

5-letter blends AVGAS, ELINT, EUCOM, MAPEX, MILOB
 6-letter blends COMCEN, HUMINT, INTSUM, PSYWAR, PSYOPS
 7-letter blends BRITFOR, CASEVAC, CENTCOM, MEDEVAC, OPSCHED
 8-letter blends INMARSAT, STRATCOM

The most common length of their source phrases is two, accounting for 86.96% blends, while the length of three words comprises the remaining 13.04%. The average source phrase length is 2.13 words. It should be noted that among the three abbreviations (see below) with three source phrase constituents the only one that uses all three constituents is INMARSAT 'international maritime satellite', while the other two omit the third element. Another interesting example is PSYOPS, which uses the first two letters and the last letter of its second source phrase constituent 'operations', being the only blend exhibiting such behaviour.

2-word blend source phrases	'aviation gasoline, British Force'
3-word blend source phrases	'end of exercise, international maritime' 'satellite, tactical satellite radio'

When we examine the blends with regard to the size of splinters they may be divided into three groups: a) blends in which the first splinter is longer than the second, comprising six blends (26%); b) blends in which the splinters are of equal length, comprising eight blends (35%); and c) blends in which the second splinter is longer than the first, comprising nine blends (39%). A special case in the group b) is presented by INMARSAT, which consists of three splinters and in which the second and the third splinter are equal, but longer than the first.

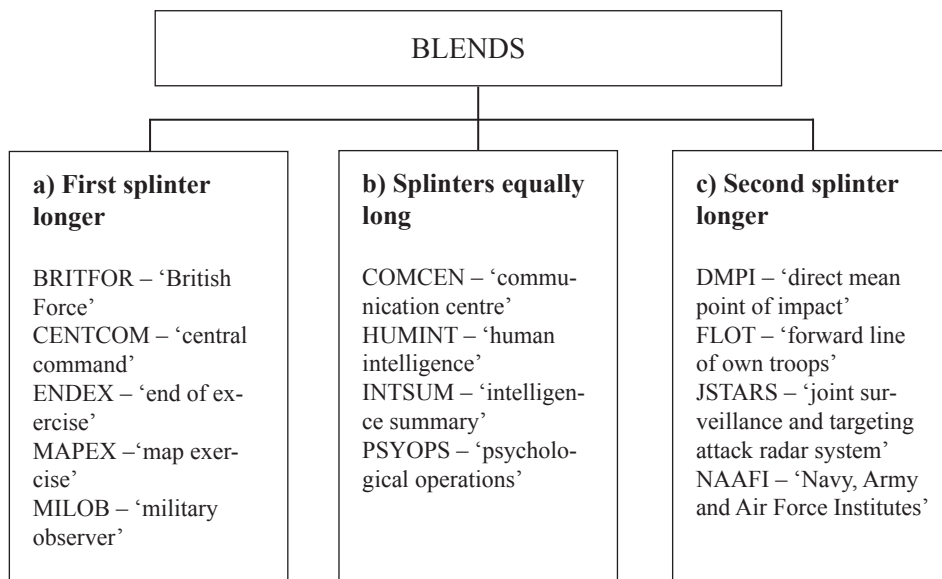


Figure 7. Distribution of blends according to the size of their splinters

Although omission of elements is not common for blends, there are two blends in which omission occurs – ‘of’ in ENDEX ‘end of exercise’ and ‘radio’ in TACSAT ‘tactical satellite radio’. We believe this is done in order to make these blends simpler, as no vital information is lost through this omission, while the pronunciation is facilitated.

3.1.4 Orthographic analysis of clippings and initialisms

The most common length of abbreviations of the last group examined in our corpus, clippings and initialisms, is six letters, noticed in five examples (55.56%), followed by seven letters (22.22%) and four and eight letters (11.11% each). The average length of these abbreviations, 6.22 letters, closely corresponds to the most common length, e.g.:

4-letter clipping and initialism	KFOR
6-letter clippings and initialisms	COSCOM, DISCOM, ECOMOG, MASINT, SACEUR
7-letter clippings and initialisms	MANPADS, SACLANT
8-letter clippings and initialisms	UNPROFOR

The source phrases of these abbreviations are most commonly four words long (55.56%), followed by three word source phrases (22.22%), and two and nine

words (11.11% each). The average length of clipping and initialism source phrases is 4.11 words.

2-word clipping and initialism source phrase	‘Kosovo Force’
3-word clipping and initialism source phrases	‘corps support command’
4-word clipping and initialism source phrases	‘man-portable air defence system’
9-word clipping and initialism source phrase	‘Economic Community of West African States cease-fire monitoring group’

As it was stated earlier, splinters are used in the creation of blends and clippings and initials are used in the creation of initialisms (Fandrych 2008b). Since clippings and initialisms use both of these elements, they can be categorized according to the arrangement of these elements into three categories, i.e. into those formed of a) splinter + initial(s); b) splinter + initial + splinter; and c) initial(s) + splinter(s):

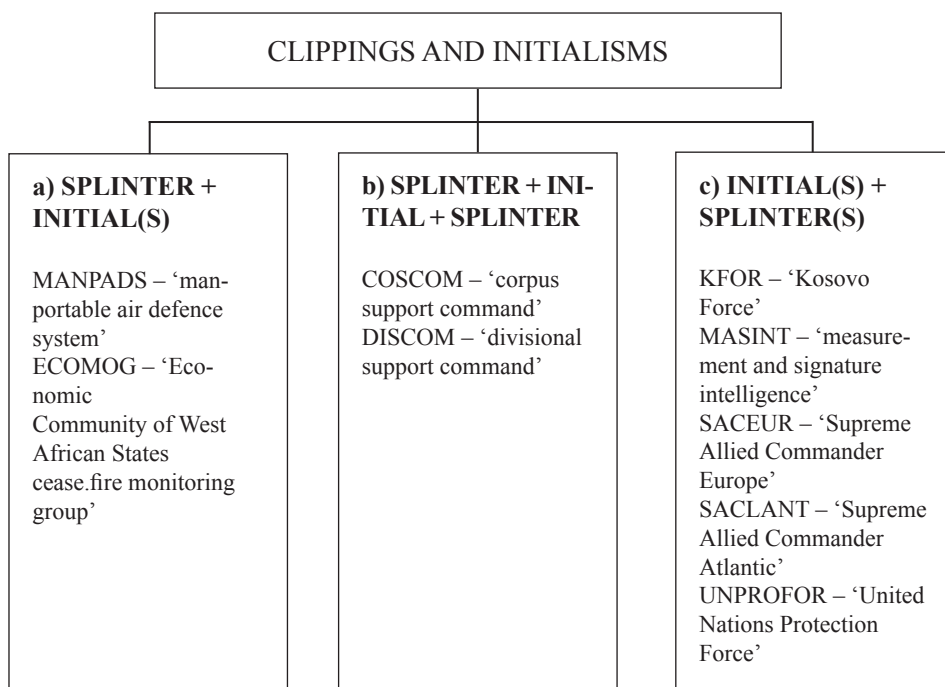


Figure 8. Distribution of clippings and initialisms according to the usage and arrangement of splinters and initials

A tentative categorization of hybrid abbreviations can be found in López Rúa's work (2004: 127). However, the categorization presented there describes hybrid forms in terms of abbreviation types they incorporate, e.g. acronyms-alphabetisms, abbreviations-clippings, rather than the elements used in their creation. It is our opinion that an analysis of arrangement of elements used in hybrid forms, i.e. splinters and initials, such as that presented in Figure 8 facilitates their analysis as it can be consistently applied to all hybrid forms and explain the processes behind their creation.

3.2 Morphological analysis

The goal of the morphological analysis was to analyze the word classes of all abbreviation types and their respective source phrases and the role of lexical and function words in their creation (research questions 3 and 4, cf. §1). In order to provide answers to the research questions the abbreviations are examined according to the following criteria:

- the word class combinations of the abbreviated elements;
- word class of abbreviations compared with the word class of their source phrases in order (to show those abbreviations in which a shift in word class occurs);
- lexical and function source phrase elements used in the creation of abbreviation; and
- the word class of the source phrase elements omitted from the abbreviations.

The same criteria are applied for all abbreviation types and up to five examples are given for all categories. Another goal is to show the lexical function of certain abbreviations and their source phrase constituents. Finally, our aim is to show which source phrase elements are not represented in the abbreviation along with the reasons for their omission.

When considering the word class combinations of the abbreviated elements, the categories of word class patterns are defined by the source phrase elements represented in the abbreviation, and the words that carry the central meaning of the abbreviation. The purpose of this analysis is to show the main patterns used in the creation of each abbreviation type. According to our categorization they can be put into the following categories: Adjective + Noun, Noun + Noun, Noun + Noun + Noun, Noun + Preposition + Noun, Verb + Preposition + Noun. Some abbreviations can be classified into clear-cut categories as a whole, according to the combination of the word class of elements in their source phrases, e.g. RHQ 'regimental headquarters' that may be categorized as Adjective + Noun (Adj + N), and DOB 'date of birth' that may be categorized as Noun + Preposition + Noun (N + Prep + N). On the other hand, the categories of some abbreviations are determined by source phrase words surrounding the element which carries the central meaning of the abbreviation. Such a word in AAA 'anti-aircraft artillery'

is ‘artillery’, as both an abbreviation and its source phrase stand for a certain type of artillery. In IVIS ‘intervehicular information system’, ‘system’ holds that central meaning, in BRITFOR ‘British Force’ that word is ‘Force’ and in SACLANT, ‘Supreme Allied Commander Atlantic’, ‘Commander’ carries the central meaning. Thus, the alphabetism LGOP ‘little group of paratroopers’ has the word class combination Adjective + Noun + Preposition + Noun (Adj + N + Prep + N), but is placed into the category of Adj + N, since the combination near the word that carries the central meaning, i. e. ‘group’, is Adj + N.

The word class combinations for alphabetisms are N + N with 10 abbreviations falling into that category, N + N + N with six abbreviations, Adj + N with 24 abbreviations, N + Prep + N with five abbreviations, and V + Prep + N with five abbreviations, while four abbreviations do not fall into any of the mentioned categories, as their source phrase elements have a word class combination which does not resemble any other category. The word class combinations for the uncategorized alphabetisms are Adj for IR, Prep + Prep + N for OOB, N + Adj + Prep + N for OOTW, and N + Adj + N for WMD. Although the pattern Adj + N is seen in WMD ‘weapons of mass destruction’, it is not placed into this category because it is the first noun ‘weapons’ which carries the central meaning. It should be noted that two abbreviations, PO and SAA, have two meanings each and both could belong to two categories, i.e. Adj + N for ‘petty officer’ and N + N for ‘pilot officer’, and Adj + N + N for ‘small arms ammunition’ and N + Prep + N for ‘skill at arms’, respectively.

Alphabetisms

Adj + N	AAA, AAM, ABCCC, ATGW, BVR;
N + N	AAR, DSO, EOD, HMS, IO, LZ;
N + N + N	AAC, CSAR, IFF, MAOT, OSCE;
N + Prep + N	CINC/C-in-C, DOB, L of C, OOM, POW;
V + Prep + N	DOR, KIA, MIA, MID, WIA;
<i>Other types</i>	IR, OOB, OOTW, WMD.

The acronyms of our corpus can be categorized into two main word class combinations, Adj + N with 21 abbreviations, N + N + N with 11 abbreviations, and there are four abbreviations that cannot be put into any of the categories, for the same reasons some alphabetisms could not be categorized. The word class combinations for these abbreviations are N + Prep + Adj + N for DIBUA, Adj + V + Conj + V + N for FAARP, V + Prep + Adj + N for FIBUA and V + Prep + N for ROM.

Acronyms

Adj + N	AWOL, ALARM, BAOR, DMPI, FLOT;
N + N + N	AWACS, JAG, MOAB, NAIAD, SERPACWA;
<i>Other types</i>	DIBUA, FAARP, FIBUA, ROM.

Blends and clippings and initialisms are distributed into two categories – Adj + N with 14 abbreviations, N + N with nine abbreviations for blends, Adj + N with three abbreviations, and N + N with six abbreviations for clippings and initialisms.

Blends

Adj + N CENTCOM, ELINT, EUCOM, HUMINT, MEDEVAC;
N + N AVGAS, BRITFOR, CASEVAC, COMCEN, EMCON.

Clippings and initialisms

Adj + N ANGLICO, COSCOM, DISCOM, KFOR, MASINT;
N + N ECOMOG, MANPADS, SACEUR, SACLANT.

The above mentioned categories are more arbitrary for some abbreviations than for others, i.e. some abbreviations fit perfectly into certain categories, while others are placed into their respective categories according to certain parts of their full phrase. Thus, it can be noted that on a general note, the abbreviations of our corpus share two main word class patterns of their source phrases – N + N and Adj + N, giving a resultant word class of noun for both patterns.

When the abbreviations of our corpus are divided into word classes, the corpus comprises 109 nouns, five adjectives, two adverbs, one verb, two abbreviations that can be considered both as adjectives and adverbs, and two abbreviations that can be considered both as verbs and nouns. However, some abbreviations are noted to undergo a change in a word class when compared to their source phrases. In other words, the word class of the abbreviation is not the same as that of the source phrase. The word class of four abbreviations (AWOL, BVR, CASEVAC, MEDEVAC) expands from adjective, adverb, noun and noun to adjective/adverb, adjective/adverb, noun/verb and noun/verb, respectively, while one abbreviation (DOR) undergoes a change in word class from noun to verb, as shown in the table below:

Table 1. Abbreviations with different word class than that of their source phrases

Abbreviation	Abbreviation type	Full form	Source phrase word class	Abbreviation word class
AWOL	acronym	absent without leave	Adj + Prep + N = Adj	Adj/Adv
BVR	alphabetism	beyond visual range	Prep + Adj + N = Adv	Adj/Adv
CASEVAC	blend	casualty evacuation	N + N = N	N/V
DOR	alphabetism	discharge on request	V + prep + N = N	V
MEDEVAC	blend	medical evacuation	Adj + N = N	N/V

AWOL He's been AWOL for three days (Bowyer 2007)

BVR We'll have to use our BVR missiles (Bowyer 2007)

- CASEVAC We must arrange a CASEVAC. / He has been CASEVACked (Bowyer 2007)
- DOR He was DOR'd from the seal program (Bowyer 2007)
- MEDEVAC We need to arrange a MEDEVAC/ He was MEDEVACked because he had malaria (Bowyer 2007)

Apart from various combinations of word classes, we may see that some abbreviations of this corpus even incorporate such combinations which constitute phrases or partial sentences, such as the acronym FIBUA. The form of these abbreviations is relatively simple; they contain a verb in the infinitive form, or present, or past participle and an adverbial of time, and have three or four constituents. Like with Table 1, the context of usage of these abbreviations is given below.

Table 2. List of abbreviations with abbreviated phrases

Abbreviation	Full form	Constituent word classes	Abbreviation word class
DOR	discharge on request	V/N + Prep + N = N	V
FIBUA	fighting in built-up areas	V/N + Prep + Adj + N = N	N
KIA	killed in action	V + Prep + N = Adj	Adj
MIA	missing in action	Adj/V + Prep + N = Adj	Adj
ROM	refuelling on the move	V + Prep + Art + N = N	N
WIA	wounded in action	Adj/V + Prep + N = Adj	Adj

- DOR He was DOR'd from the SEAL programme (Bowyer 2007)
- FIBUA I am going on a FIBUA course (Bowyer 2007)
- KIA The KIA badge was awarded by the government-sponsored Izokukai. (URL 1)
- MIA Two sets of MIA remains which were recovered recently in the central province of Quang Tri were airlifted to Hawaii (URL 2)
- ROM The primary purpose of ROM is to ensure that the fuel tanks on all combat and fuel-servicing vehicles are topped off before they arrive in the unit's tactical assembly area (URL 2)
- WIA A key term used to define combat-injured casualties is the number of wounded in action (WIA) and is the sum of three subgroups (URL 3)

If we look at the constituent phrases of the abbreviations with regard to their lexical properties, abbreviations may be grouped into two categories: abbreviations which contain only lexical words, i.e. nouns, verbs, adjectives and adverbs, and abbreviations which contain both lexical and function words, i.e. prepositions, conjunctions and pronouns. The latter group is further divided into abbreviations in which function words are only a part of source phrases, but omitted from the abbreviation themselves, and those abbreviations in which function words from source phrases are represented. This distribution is illustrated in Figure 9. Thus, the majority of source phrases of this

corpus do not include function words, while 64% of those which include function words include those function words in the abbreviation as well.

The omission of elements is more prominent with initialisms than with other two types of abbreviations, and somewhat more with acronyms than alphabetisms. We consider that this is because acronyms are more arbitrary in their creation than alphabetisms, meaning more source phrase elements are omitted to make a certain abbreviation pronounced as a single word. Specifically, six out of 52 alphabetisms (11.5%) omit certain elements of their source phrase, and those are conjunctions ‘and’ (as in ABCCC, OSCE and VTOL) and ‘or’ (in IFF), and prepositions ‘of’ (in ETA and WMD), ‘in’ and ‘for’ (in OSCE).

It should be also noted that the constituents omitted from some abbreviations above are not omitted from other abbreviations. For example, ‘in’ is omitted from OSCE ‘Organization for Security and Cooperation in Europe’, but is not omitted from KIA ‘killed in action’, MIA ‘missing in action’, WIA ‘wounded in action’, and MID ‘mentioned in Dispatches’. The motivation for the omission of ‘in’ from OSCE seems to be facilitation of writing, as only the lexical words are used in the abbreviation, while function words, among which is ‘in’, are omitted to make the abbreviation shorter and more practical to use. Furthermore, while almost all

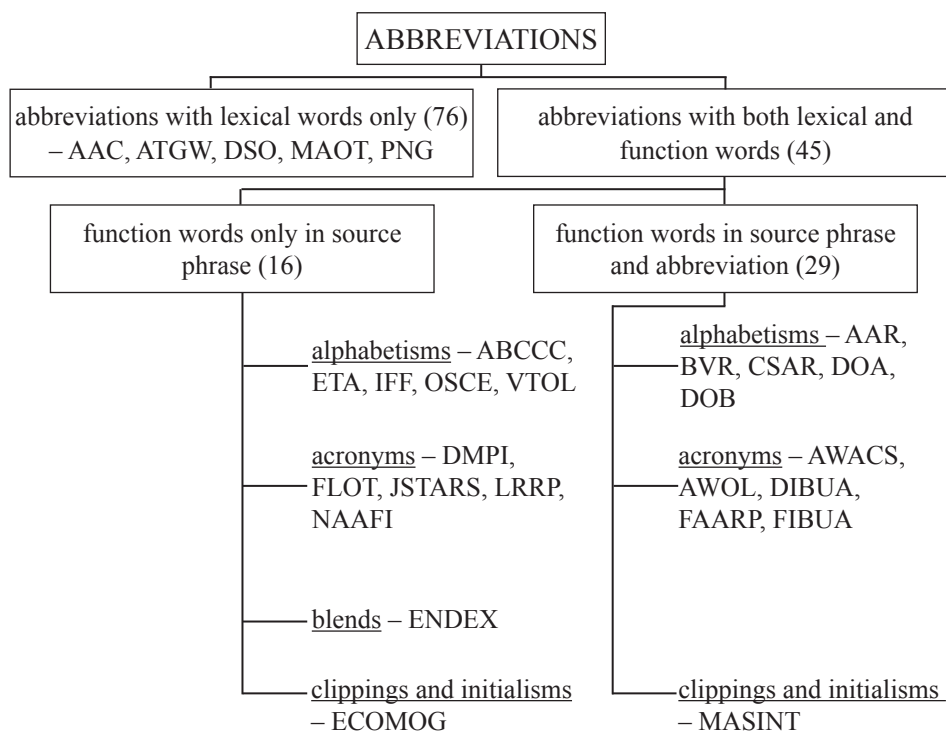


Figure 9. Distribution of abbreviations according to lexical properties of source phrase constituents

abbreviations with compounds in their source phrases use both parts of the compound, in AAM ‘air-to-air missile’ preposition ‘to’ is omitted, presumably for the same reasons as ‘in’ from OSCE.

The acronyms of the selected corpus omit even more elements. Out of 36 acronyms, 12 (32.4%) omit both lexical and function words. Out of those twelve, function words are omitted from eight acronyms, i.e. prepositions ‘of’ from DMPI and FLOT and ‘in’ from SHAPE, the conjunction ‘and’ from JSTARS, LRRP, NAAFI and NAIAD, and the article ‘the’ from ROM. Among the lexical words omitted from acronyms, there are four nouns, four verbs and two adjectives. The acronyms which omit lexical words are HARM (in which ‘speed’ is omitted), HOT (‘subsonic’, ‘guided’ and ‘fire’), METT-T (‘available’), NAIAD (‘enzyme’ and ‘and’) and TOW (‘launched’, ‘tracked’, ‘guided’ and ‘missile’). However, it should be noted that the omissions of ‘speed’ from HARM and ‘launched’, ‘tracked’ and ‘guided’ from TOW refer to omission from parts of compounds, rather than individual words.

The fact that five acronyms of our corpus omit lexical words is particularly interesting when related to the fact that they are pronounced as single words. The nature of their pronunciation, coupled with the fact that their source phrases are roughly 1.3 word longer than those of alphabetisms, leads us to the conclusion that acronyms are used to abbreviate terms that would be too inconvenient to abbreviate as alphabetisms, due to their length, and this is often done at the expense of words in the source phrase, both lexical and grammatical. Should the acronyms HARM, NAIAD and TOW include all source phrase elements, the result would be – *HSARM, *METTAT and *NAIEAAD, either rather awkward acronyms or too long to be alphabetisms. Thus, we may conclude that this is a general rule for creation of initialisms; first, all the initial letters are taken and the appropriate type of initialisms is chosen, depending on the number and arrangement of letters, and second, if necessary, elements are omitted in order to make the abbreviation more pronounceable.

Even though omission of elements is not symptomatic of blends, two blends (8.7%) from our corpus omit certain source phrase elements. Those are ENDEX, which omits the preposition ‘of’ and TACSAT which omits the noun ‘radio’. Like with initialisms, the motivation for this is practicality in pronunciation and writing. The same applies to ECOMOG ‘Economic Community of West African States cease-fire monitoring group’, which is the only clipping and initialism of this corpus that omits certain elements, although it omits five source phrase elements, both lexical and function words, i.e. ‘of’, ‘West’, ‘African’, ‘States’ and ‘cease-fire’.

Generally speaking, abbreviations follow the pattern of creation: source phrase → compound → abbreviation. For instance, EOD ‘explosive ordnance disposal’ has the phrase ‘disposal of explosive ordnance’ as its starting point, which is then shortened into a compound, and later abbreviated into EOD. However, some phrases “skip” one stage of their creation, i.e. they do not have the compound form, but immediately become abbreviations. These abbreviations are shown below, along with their source phrases and their potential compound forms:

Table 3. Examples of source phrases directly abbreviated without compounding

SOURCE PHRASE	POSSIBLE COMPOUND	ABBREVIATION
date of birth	*birth date	DOB
estimated time of arrival	*estimated arrival time	ETA
line of communication	*communication line	L of C
order of march	*march order	OOM
Organization for Security and Cooperation in Europe	*Security and Cooperation in Europe Organization	OSCE
prisoner of war	*war prisoner	POW
weapons of mass destruction	*mass destruction weapons	WMD
direct mean point of impact	*direct mean impact point	DMPI

4. Conclusion

The aim of our work was to show various orthographic and morphological properties of abbreviations of English military terminology, in order to provide a clearer picture of abbreviations in this particular part of the lexicon. In the selected corpus, two major abbreviation types were found: initialisms, which comprise alphabetisms and acronyms, and blends. In addition, an abbreviation type which is a hybrid form of clippings and initialisms was also recorded. Among the abbreviations, the most numerous were initialisms, comprising 89 out of 121 abbreviations, followed by blends with 23 examples and clippings and initialisms with 9 examples.

On the orthographic level, the length of alphabetisms ranges from two to five letters, and the most common are 3-letter alphabetisms, with the length of their source phrases ranging from one to seven letters and the most common length being three words. The acronyms' length ranges from three to eight letters with the most common length of four letters. The source phrase length ranges from three to eight words, with 4-word source phrases as most common. The length of blends ranges from five to eight letters, with 6-letter blends being the most common. Their source phrases are mostly two words long, with three examples of 3-word source phrases. The length of hybrid forms of clippings and initialisms ranges from four to eight letters, with six letters being the most common length. The length of their source phrases ranges from two to nine words, with four words as the most common length.

Majority of initialisms follow the regular patterns of creation, i.e. one letter per one source phrase constituent. However, 25% of abbreviations use 2-letter initials or omit certain elements, and thus do not follow the regular pattern. In fact, when comparing the most common length of initialisms and their respective source phrases one can see the discrepancy between the two. This shows that the complete language economy is not a dominant tendency in initialisms, i.e. that majority of them do not omit all elements that could be regarded as unnecessary.

In majority of blends a source phrase constituent is represented by a splinter, and the second splinter tends to be the larger one, although this pattern is not significantly more dominant (39% cases) than the other two – first splinter larger and splinters being equal in size. Since the analysis of hybrid forms in this corpus could not have gone into so much detail as that of other abbreviation types, only their patterns of elements used were determined – splinter + initial(s), splinter + initial + splinter, and initial(s) + splinter(s).

On the morphological level, 109 abbreviations are nouns, five are adjectives, two are adverbs, one is a verb, two abbreviations are both nouns and verbs, and two are both adjectives and adverbs. The predominant patterns of abbreviations source phrases are Adjective + Noun and Noun + Noun, although the patterns of source phrases are rather diverse. The abbreviations tend to have the same word class as their source phrases, except for five abbreviations in which a change in word class was noted.

It was noted that 63% of abbreviations in our corpus include only lexical words, while 37% use both lexical and function words, which is a significant ratio. Among the latter, function words are used in both the abbreviations and their source phrases in 64% abbreviations, while in the remaining 36% function words are used only in the source phrases. Omission of elements is particularly prominent with initialisms, especially acronyms, some of which omit both lexical and function source phrase elements, while alphabetisms omit only function words. Omission of elements is noted among blends and clippings and initialisms, although not as often as with initialisms. The reasons for these omissions are assumed to be the facilitation of pronunciation and writing for all abbreviations.

The abbreviations in general are a very diverse and flourishing part of the lexicon, and it is in the military lexicon where the necessity for practical abbreviations becomes apparent, as many abbreviations are found to omit certain elements, presumably to facilitate their usage.

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Appendix***Initialisms***

Abbreviation	Full form
AAA	<u>anti-aircraft</u> <u>artillery</u>
AAC	<u>A</u> rm <u>y</u> <u>A</u> ir <u>C</u> orps
AAM	<u>air-to-air</u> <u>missile</u>
AAR	<u>after</u> <u>action</u> <u>review</u>
ABCCC	<u>airborne</u> <u>command</u> , <u>control</u> and <u>communications</u>
ATGW	<u>anti-tank</u> <u>guided</u> <u>weapon</u>
BVR	<u>beyond</u> <u>visual</u> <u>range</u>
CINC/C-in-C	<u>C</u> ommander <u>i</u> n <u>C</u> hief
CSAR	<u>combat</u> <u>search</u> and <u>rescue</u>
DOA	<u>dead</u> <u>on</u> arrival
DOB	<u>date</u> <u>of</u> birth
DOR	<u>discharge</u> <u>on</u> request
DSO	<u>defensive</u> <u>systems</u> <u>officer</u> .
ECCM	<u>electronic</u> <u>counter-</u> <u>counter</u> <u>measures</u>
EOD	<u>explosive</u> <u>ordnance</u> <u>disposal</u>
ETA	<u>estimated</u> <u>time</u> of arrival
GPS	<u>G</u> lobal <u>P</u> ositioning <u>S</u> ystem
HMS	<u>H</u> er <u>M</u> ajesty's <u>S</u> hip
IFF	<u>identification</u> <u>friend</u> or <u>foe</u>
IO	<u>intelligence</u> <u>officer</u>
IR	<u>infrared</u>
KIA	<u>killed</u> <u>in</u> action
LCAC	<u>landing</u> <u>craft</u> <u>air</u> <u>cushioned</u>
LGOP	<u>little</u> <u>groups</u> <u>of</u> paratroopers
L of C	<u>line</u> <u>of</u> communication
LZ	<u>landing</u> <u>zone</u>
MAOT	<u>mobile</u> <u>air</u> operations <u>team</u>
MIA	<u>missing</u> <u>in</u> action
MID	<u>Mentioned</u> <u>in</u> <u>Dispatches</u>
NCO	<u>non-commissioned</u> <u>officer</u>
OMG	<u>operational</u> <u>manoeuvre</u> group
OOB	<u>out</u> <u>of</u> bounds
OOM	<u>order</u> <u>of</u> march
OOTW	<u>operations</u> <u>other</u> <u>than</u> <u>war</u>
OSCE	<u>O</u> rganization for <u>S</u> ecurity and <u>C</u> ooperation in <u>E</u> urope
PMC	<u>private</u> <u>military</u> <u>company</u>
PNG	<u>passive</u> <u>night</u> goggles
PO	1. <u>petty</u> <u>officer</u> 2. <u>pilot</u> <u>officer</u>
POL	<u>petrol</u> , <u>oil</u> , lubricants
POW	<u>prisoner</u> <u>of</u> <u>war</u>
QRA	<u>quick</u> <u>reaction</u> <u>alert</u>
RAC	<u>R</u> oyal <u>A</u> rmoured <u>C</u> orps
RAF	<u>R</u> oyal <u>A</u> ir <u>F</u> orce
RHQ	<u>regimental</u> <u>headquarters</u>
R & R	<u>rest</u> and <u>recuperation</u>
SAA	1. <u>small</u> <u>arms</u> <u>ammunition</u> 2. <u>skill</u> <u>at</u> <u>arms</u>
SAS	<u>S</u> pecial <u>A</u> ir <u>S</u> ervice
VTOL	<u>vertical</u> <u>take-off</u> and <u>landing</u>

WIA	wounded <u>i</u> n <u>a</u> ction
WMD	weapon(s) of <u>m</u> ass <u>d</u> estruction
WVR	<u>w</u> ithin <u>v</u> isual <u>r</u> ange
XO	<u>e</u> xecutive <u>o</u> fficer

Acronyms

Abbreviation	Full form	Pronunciation
ANGLICO	<u>a</u> ir <u>n</u> aval <u>g</u> unfire <u>l</u> iaison <u>c</u> ompany	'æŋɡlɪ,kəʊ
ALARM	<u>a</u> ir-launched <u>a</u> ntiradiation <u>m</u> issile	ə'la:m
AWACS	<u>A</u> irborne <u>W</u> arning and <u>C</u> ontrol <u>S</u> ystem	'eɪwæks
AWOL	<u>a</u> bsent <u>w</u> ithout <u>l</u> eave	'eɪwɒl
DMPI	<u>d</u> irect <u>m</u> ean <u>p</u> oint of <u>i</u> mpact	'dɪmpɪ
DIBUA	<u>d</u> efence in <u>b</u> uilt-up <u>a</u> reas	'dɪbʊə
FAARP	<u>f</u> orward <u>a</u> rming and <u>r</u> efuelling <u>p</u> oint	fɑ:p
FIBUA	<u>f</u> ighting in <u>b</u> uilt-up <u>a</u> reas	'fɪbə
FLOT	<u>f</u> orward <u>l</u> ine of <u>o</u> wn <u>t</u> roops	floʊt
FROG	<u>f</u> ree <u>r</u> ocket <u>o</u> ver- <u>g</u> round	fɹɒɡ
HALO	<u>h</u> igh <u>a</u> ltitude <u>l</u> ow <u>o</u> pening	'heɪləʊ
HARM	<u>h</u> igh-speed <u>a</u> nti- <u>r</u> adiation <u>m</u> issile	hɑ:m
HEAT	<u>h</u> igh <u>e</u> xplosive <u>a</u> nti- <u>t</u> ank	hi:t
HESH	<u>h</u> igh <u>e</u> xplosive <u>s</u> quash- <u>h</u> ead	heʃ
HOT	<u>h</u> igh <u>s</u> ubsonic, <u>o</u> ptically <u>g</u> uided, <u>t</u> ube <u>f</u> ire	hɒt
IAAG	<u>i</u> mprovised <u>a</u> nti- <u>a</u> rmour <u>g</u> renade	'aɪæɡ
IVIS	<u>i</u> ntervehicular <u>i</u> nformation <u>s</u> ystem	'aɪvɪs
JAG	<u>j</u> udge <u>a</u> djutant <u>g</u> eneral	dʒæɡ
JDAM	<u>j</u> oint <u>d</u> irect <u>a</u> ttack <u>m</u> unition	'dʒeɪdæm
JSTARS	<u>j</u> oint <u>s</u> urveillance and <u>t</u> argeting <u>a</u> ttack <u>r</u> adar <u>s</u> ystem	'dʒeɪ stɑ:z
LRRP	<u>l</u> ong-range <u>r</u> econnaisance and <u>p</u> atrolling	lɜ:p
MASH	<u>m</u> obile <u>a</u> rmey <u>s</u> urgical <u>h</u> ospital	mæʃ
METT-T	<u>m</u> ission, <u>e</u> nemy, <u>t</u> errain, <u>t</u> roops <u>a</u> vailable, <u>t</u> ime	,met 'ti:
MILES	<u>m</u> ultiple <u>i</u> ntegrated <u>l</u> aser <u>e</u> ngagement <u>s</u> ystem	maɪlz
MOAB	<u>M</u> assive <u>O</u> rdnance <u>A</u> irburst <u>B</u> omb	'məʊæb
NAAFI	<u>N</u> avy, <u>A</u> rmey and <u>A</u> ir <u>F</u> orce <u>I</u> nstitutes	'næfi
NAIAD	<u>n</u> erve <u>a</u> gent <u>i</u> mmobilised <u>e</u> nzyme <u>a</u> larm and <u>d</u> etector	naɪæd
NATO	<u>N</u> orth <u>A</u> tlantic <u>T</u> reaty <u>O</u> rganization	'neɪtəʊ
ROM	<u>r</u> efuelling <u>o</u> n the <u>m</u> ove	rɒm
SACLOS	<u>s</u> emi- <u>a</u> utomatic <u>c</u> ommand <u>l</u> ine of <u>s</u> ight	'sæklɒs
SALUTE	<u>S</u> ize, <u>A</u> ctivity, <u>L</u> ocation, <u>U</u> nit, <u>T</u> ime, <u>E</u> quipment	sə'lu:t
SEAL	<u>s</u> ea, <u>a</u> ir, <u>l</u> and	si:l
SERPACWA	<u>s</u> kin <u>e</u> xposure <u>r</u> eduction <u>p</u> aste <u>a</u> gainst <u>c</u> hemical <u>w</u> ar- <u>f</u> are <u>a</u> gents	sərpækwa
SHAPE	<u>S</u> upreme <u>H</u> eadquarters, <u>A</u> llied <u>P</u> owers in <u>E</u> urope	ʃeɪp
TEWT	<u>t</u> actical <u>e</u> xercise <u>w</u> ithout <u>t</u> roops	'tju:t
TOW	<u>t</u> ube-launched, <u>o</u> ptically-tracked, <u>w</u> ire-guided	təʊ
WAC	<u>w</u> eapons <u>a</u> iming <u>c</u> omputer	wæk

Blends

Abbreviation	Full form	Pronunciation
AVGAS	aviation <u>g</u> asoline	'ævgæs
BRITFOR	<u>B</u> ritish <u>F</u> orce	'brɪtfɔ:
CASEVAC	casualty <u>e</u> vacuation	'kæzɪvæk
CENTCOM	central <u>c</u> ommand	'sentkɒm
COMCEN	<u>c</u> ommunication <u>c</u> entre	'kɒmsɛn
ELINT	<u>e</u> lectronic <u>i</u> ntelligence	'i:lɪnt
EMCON	<u>e</u> mission <u>c</u> ontrol	'ɛmkɒn
ENDEX	<u>e</u> nd of <u>e</u> xercise	'ɛndɛks
EUCOM	<u>E</u> uropean <u>C</u> ommand	'ju:kɒm
HUMINT	<u>h</u> uman <u>i</u> ntelligence	'hju:mɪnt, ,hʌmɪnt
INMARSAT	<u>i</u> nternational <u>m</u> aritime <u>s</u> atellite	'ɪnmɑ:sæt
INTSUM	<u>i</u> ntelligence <u>s</u> ummary	'ɪntsʌm
MAPEX	<u>m</u> ap <u>e</u> xercise	'mæpɛk
MEDEVAC	<u>m</u> edical <u>e</u> vacuation	'medɪvæk
MILOB	<u>m</u> ilitary <u>o</u> bserver	'maɪləb
OPFOR	<u>o</u> pposing <u>f</u> orces	'ɒp'fɔ:
OPSCHED	<u>o</u> peration <u>s</u> chedule	,'ɒpsjɛd
PACOM	<u>P</u> acific <u>C</u> ommand	'pækɒm
PSYOPS	<u>P</u> sychological <u>o</u> perations	'sɑ:pɒs
PSYWAR	<u>p</u> sychological <u>w</u> arfare	'sɑ:wɔ:
SATNAV	<u>s</u> atellite <u>n</u> avigation	'sætɪnæv
STRATCOM	<u>s</u> trategic <u>c</u> ommand	'strætɒm
TACSAT	<u>t</u> actical <u>s</u> atellite radio	'tæksæt

Clippings and initialisms

Abbreviation	Full form	Pronunciation
COSCOM	corps support <u>c</u> ommand	'kɒskɒm
DISCOM	<u>d</u> ivisional support <u>c</u> ommand	'dɪskkɒm
ECOMOG	<u>E</u> conomic <u>C</u> ommunity of West African States cease- -fire <u>m</u> onitoring group	i:'kɒmɒg
KFOR	<u>K</u> osovo <u>F</u> orce	'keɪ fɔ:
MANPADS	<u>m</u> an-portable <u>a</u> ir <u>d</u> efence system	'mænpædz
MASINT	<u>m</u> easurement and <u>s</u> ignature <u>i</u> ntelligence	'mæzɪnt
SACEUR	<u>S</u> upreme <u>A</u> llied <u>C</u> ommander <u>E</u> urope	'sæksɜ:
SACLANT	<u>S</u> upreme <u>A</u> llied <u>C</u> ommander <u>A</u> tlantic	'sæklænt
UNPROFOR	<u>U</u> nited <u>N</u> ations <u>P</u> rotection <u>F</u> orce	ʌn'prəʊ,fɔ:

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