VARIATION IN THE STRESS OF RUSSIAN FEMININE NOUNS OF MOBILE TYPES D (ЖЕНÁ) AND D´(СПИНА́)

ROBERT LAGERBERG*

Summary

In this article two key mobile stress patterns of Russian are analysed, patterns d and d´. The former is characterised by ending stress in the singular and stem stress in the plural, while the latter has the same pattern except for the accusative singular which has stem stress, i.e. it has a mobile sub-paradigm in the singular. Pattern d has been established as not only the largest mobile stress type among first-declension feminine nouns, but also the only pattern which is in the ascendancy. This article attempts to analyse empirically what variation exists within nouns of this paradigm, since it is to be expected that variation would indicate earlier stress types – as an ascendant type, pattern d itself would be expected to be stable as an endpoint for nouns from other stress types, particularly patterns d´, f and f´. Pattern d´ is also briefly analysed in order to establish whether it can be considered a sub-type of pattern d in the sense that nouns which have variation tend to be moving towards pattern d. The hypotheses for both patterns are borne out by the data: pattern d is largely stable and most variation which occurs within it indicates earlier stress types, while pattern d´ exhibits a weak tendency towards pattern d.

Key Words: Russian language, accent, word stress, mobile stress, phonology.

Introduction

This article analyses the dynamics of two mobile stress types in Russian feminine first-declension nouns which are generally referred to as patterns d and d´ (for example, in Zaliznjak 1977). By examining the development of such patterns over a period of approximately forty years
using normative and descriptive sources of Russian, as well as data from other linguistic accounts and surveys, a fuller picture is given of the directions of change in which the accentual complexities of such nouns are moving.

The two most common mobile patterns of feminine first-declension nouns in Russian are patterns \( d \) and pattern \( f \): for example, Fedjanina (1982, 82-83) lists 120 nouns of type \( d \), 35 of type \( f \).[1] These two types are surpassed numerically only by two types of fixed stress feminine patterns, pattern \( a \) (fixed stem stress), by far the largest group (10,700, as attested by Fedjanina 1982) followed by pattern \( b \) (fixed ending stress) (410).[2]

Pattern \( d \) is represented by ending stress in the singular sub-paradigm and stem stress in the plural sub-paradigm (e.g. жена́ ‘wife’), while pattern \( f \) has ending stress throughout the singular and plural sub-paradigms, except for the nominative/accusative plural, which has stem stress on the initial stem syllable (e.g. губа́ ‘lip’). In nouns of more than one syllable, the genitive plural with zero ending generally has stress on the final syllable (e.g. голова́). In addition to these two main types of mobile stress, two related sub-types, each with retracted accusative singular stress, also occur, namely pattern \( d’ \) (which will form much of the discussion of this article) and pattern \( f’ \): thus, pattern \( d’ \) has the same pattern as \( d \), but with stress retracted on to the initial stem syllable in the accusative singular (e.g. спина́ ‘back’), while pattern \( f’ \) is identical to pattern \( f \), but with the same retraction of stress (e.g. голова́ ‘head’). The focus of this article is feminine nouns of the types \( d \) and \( d’ \), though mention of patterns \( f \) and \( f’ \) will frequently be made. For convenience, all these complex feminine mobile paradigms are laid out below:

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<tr>
<th>Pattern ( d )</th>
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<tr>
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<td>Accusative</td>
<td>спину́</td>
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<td>Genitive</td>
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<td>Accusative</td>
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<td>Prepositional</td>
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<th>Pattern ( f’ )</th>
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<td>Nominative</td>
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<td>Accusative</td>
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Pattern f

Within the study of inflectional Russian stress, feminine first-declension nouns of (typically) two, (sometimes) three and (rarely) four or more syllables with mobile stress represent the classical area as a result of their strong connection with the more complex Proto-Slavonic stress and intonation patterns (i.e. those with desinential and mobile stress), a complex history of subsequent variation in terms of their development from Old Russian into the modern era, as well as their current tendency to display high levels of variation in the standard language. As early as 1952, Hingley (1952, 187) made some important observations on both the history and future directions of (complex) Russian stress, writing that the “flexional stress of nouns in -а/-я has undergone a certain evolution, that it is in a state of flux at the present moment, and that it may be expected to move in a certain predictable direction in the future.” He continues (ibid., 195): “It therefore seems likely that words have tended to defect from the fixed final paradigm to a mobile paradigm in proportion to the frequency with which they are used.” And further (ibid, 196): “The condition of apparent chaos in the flexional stress of disyllabic mobile nouns in -а/-я becomes intelligible when it is realised that Russian is in a process of establishing a new paradigm which has already achieved such ascendancy that it has assimilated more than half of the material. In the new paradigm columnar stress on the case-endings of the singular is opposed to columnar stress on the stem throughout the plural.”

Hingley is here making two key points concerning Russian mobile stress in feminine first-declension nouns: a) he links the adherence of various words to their respective stress patterns with their respective frequency (without, however, verifying this in any empirical way), and, b) he recognises the ascendancy of the d paradigm, that is, a paradigm with fixed stem stress in the singular and fixed stem stress in the plural, i.e. a columnar type of stress pattern with the singular and plural clearly demarcated.

Exactly fifty years later, Nick Ukiah (Ukiah 2002) published an article on the current situation in Russian vis-à-vis the f pattern of Russian feminine nouns. This article, in a sense, continues where Hingley left off: it attempts to establish the current situation, at least in spoken, spontaneous Russian, with regard to the tendencies in the stress patterns of nouns which, at one stage, have been held to belong to the f pattern.\[3\] The specific aim of Ukiah’s survey is to ascertain the accentual tendencies of these nouns with variation, and, in particular, whether they are undergoing either of two important tendencies currently at work in the Russian stress system: a) a general tendency in Russian mobile stress towards a singular/plural opposition; in the case of the ыбa-pattern nouns we are dealing here with ending stress in the singular and a shift to a contrasting fixed stem stress in the plural (i.e. a move to stress pattern d), or, b) a general tendency in Russian mobile stress towards a differentiation of stress in the plural forms only; in the case of pattern f, the direct cases (i.e. nominative, accusative) would have stem stress and the oblique (genitive, dative, instrumental and prepositional) cases would have ending stress, i.e. in this scenario the f-pattern is simply retained, itself representative of the general tendency. The genitive plural, as Ukiah makes clear (2002, 5-6), representing a reduction of syllables in the case of most of these words, often to one syllable (e.g. ыб), would, of course, play a central role in such a development, since it forces the otherwise (at least, assumed, on the basis of the f-pattern oblique cases) desinential stress on to the stem, thereby blurring the boundary between the direct and oblique cases and creating the potential for analogous or alternative stem stress in the remaining oblique plural forms.\[4\]

A wider historical perspective on the development of the Russian f stress pattern is
in instructive, as it has a direct relationship with pattern d nouns, and this is an area that is currently in a state of flux, moving from one system to another. In terms of ‘classical’ Slavonic accentology, as exemplified by, for example, Vaillant (1950), pattern f ultimately goes back to the (hypothetical) Common Slavonic pattern b (characterised by fixed stress on the ending), which itself came about in the following way (Vaillant 1950, 246): ‘une tranche d’intonation douce a attiré l’accent de la tranche brève ou d’intonation douce qui la précédait.’ This process is known as the ‘law of de Saussure’, but its validity has not been accepted by all scholars: some revisionists (beginning with Stang (1957) and continuing with, amongst others, Dybo (1981)), reject it partially, and at least one (Darden 1984) rejects it entirely (albeit in an ‘experimental’ way). Nevertheless, while disputing its origin, all scholars admit the existence of an early class of desinentially stressed nouns. It is important to distinguish this pattern b class (e.g. черта) from the already existing class of ‘true’ mobile (pattern f) nouns (e.g. голова, рука, вода). The latter mobile first-declension feminine nouns, unlike the newer b class, were characterised by a recessive (i.e. shifting back to the initial syllable) stress in certain forms, such as the accusative singular and nominative plural, which also shifted to a preposition when directly preceding the noun (a feature which still exists, though decreasingly so, it seems, in modern Russian), e.g. за руку ‘by the hand’, на голову ‘on the head’. This mobile stress pattern is regarded as the ‘classical’ mobile pattern of Russian, now generally classified as pattern f’ (e.g. the stress paradigm of голова). The pattern-f nouns (those exemplified by губа), on the other hand, emerged subsequent to and as an off-shoot of both this existing ‘pure’ mobile class, as well as the newer class of nouns with fixed ending stress, in other words, they appear to be a later (circa 1600) development, maintaining a fixed ending-stress for the majority of their forms (i.e. pattern b), but shifting it on to the stem in the nominative/accusative plural by analogy with pattern f’.

If, then, pattern f’ represents the oldest mobile type in Russian feminine nouns in -а/-я, the f (губа) stress type is its direct heir, but resulted more as a blend of a primarily pattern-b stress with the characteristic f’ nominative plural stress shift to the stem. The subsequent history of all these nouns (roughly from the medieval period up to the end of the nineteenth century) is one of volatile and erratic shifts of stress (see, for example, Kolesov (1972, 42), on the retracted ‘mobile’ accusative singular stress for блоха). However, the following clear tendencies through this maize can be traced: the oldest type, pattern f’, has been maintained in Russian, though many words which had previously belonged to it, are no longer of this type (Fedjanina (1982, 100-101) lists only 13 such nouns with this type of stress (CC in her terminology)). Pattern b remains in Russian, and is, indeed, statistically the second most frequent type for first-declension feminine nouns, but has become very much a stress paradigm for low or lower frequency nouns (see more on this below). Pattern f is less old and has been maintained in such nouns as губа and блоха. Still later patterns emerging were pattern d’ and then pattern d. The former resulted from a reassignment of pattern f’ into a stress pattern exemplified by земля, which has the same stress has f’ nouns in the singular, but in the plural has stem stress (a relic of the former pattern, however, being evident in the genitive plural земель, not *земель). The more important development in Russian, however, is represented by the later emerging d paradigm, the most recent of all the Russian mobile types (circa 1800), which is characterised by ending stress in the singular and stem stress in the plural, i.e. this is a paradigm with columnar stress differentiated in the singular and plural, and it is precisely this paradigm which is highlighted by both Hingley (1952) and Ukiiah (2002) as the apparent ‘goal’ of lower frequency pattern-f nouns. Xazagerov (1973, 102-106) also proposes that a columnar distinction in stress between singular and plural is one of the key motivating facts in the dynamics of word stress in modern Russian.
In terms of modern Russian, both Hingley and Ukiah identify a link between a word’s relative frequency and its stress pattern, but neither provides any substantiated evidence for it. For each, however, the link is somewhat different. Hingley (1952, 195) claims that there is a move away from fixed ending stress (type $b$) in connection with a word’s frequency, i.e. the more frequent the noun, the more likely it is to have moved from pattern $b$ to pattern $d$ (that is to say, to have shifted its stress on to the initial stem syllable in all plural forms). As he states (ibid.), ‘It therefore seems likely that words have tended to defect from the fixed final paradigm to a mobile paradigm in proportion to the frequency with which they are used.’ Indeed, feminine words with fixed ending stress (pattern $b$) are confirmed as a low frequency group by Cubberley (1987, 34-35). Cubberley demonstrates that only 5 of the 357 most common (according to the data in Zasorina (1977)) feminine nouns in Russian have pattern $b$, even though they represent overall in Russian the second most common group (after the pattern $a$ fixed stress pattern) according to Fedjanina (1982, 82), although she also states that they are mostly rare, borrowed or Church Slavonic nouns (ibid., 93).[6]

Ukiah’s (2002) conclusion is somewhat different to that of Hingley: according to Ukiah (ibid., 23) nine $f$-pattern nouns appear to have retained pattern $f$ for a majority of speakers. It is precisely this group of nouns which Ukiah assumes to have a relatively high frequency, since it is by virtue of their relatively high familiarity to speakers that they are able to maintain what is largely an anomalous, or at least complex, stress pattern (i.e. pattern $f$) and resist the ‘normalising’ tendency towards pattern $d$. As Ukiah writes (ibid., 21), ‘… many of the nouns remaining in pattern $f$ appear to be rather common (i.e. high frequency) items of vocabulary, whereas many of those which have moved to pattern $d$ appear to be rather rare.’ Further, according to Ukiah (ibid., 24), thirteen original pattern-$f$ nouns appear, at least for the majority of speakers, to have moved to pattern $d$, so for these Ukiah would expect a relatively low frequency, i.e. they ‘appear to be rather rare’ (ibid., 21).

Lagerberg (2010) thereafter demonstrated on the basis of Ukiah’s data that there is, indeed, some veracity to the claim that the stress of feminine nouns in -$a$-/я and their relative frequency are linked. However, the correspondence is not exactly as would be expected from Ukiah’s suppositions and there remain inconsistencies in the data (e.g. outliers like деньги ‘money’ with high frequency but pattern $d$ stress in standard Russian go against the hypothesis and require alternative explanation), and, therefore, there exists a certain amount of incertitude despite a generally positive result. It would not be unreasonable, however, to add that such incertitude is one of the defining characteristics of the study of Russian stress and its underlying system. What appears clear, however, is that for feminine first-declension nouns, pattern $d$ is establishing itself as the main mobile paradigm. While pattern $a$ is undoubtedly the largest and most common pattern of stress for these nouns, accounting for about 98% of all -$a$-/я nouns according to Fedianina (1982, 81) and 76.7% of the 357 most common feminine nouns in Russian according to Cubberley (1987, 35), pattern $d$ is now the most common mobile pattern, accounting for 7.3% of the 357 most common feminine nouns according to Cubberley (ibid.), and 0.8% of all feminine nouns according to Fedjianina (see Cubberley 1987, 38 for these figures) – second only to pattern $b$ nouns, though, as Cubberley (ibid., 35) shows, pattern $b$ feminine nouns have an extremely low prevalence among the most frequently used lexemes of Russian (only 1.4% of the most frequent feminine nouns). In a sense, then, pattern-$d$ nouns can be presented (both in theoretical, as well as pedagogical terms) as the default and ascendant mobile pattern for first-declension feminine nouns.
Aims and approach

As shown above, the main mobile types of stress for feminine first-declension nouns are pattern $d$ (desinential stress in the singular, stem stress in the plural (e.g. жена́)), pattern $d'$ (as for pattern $d$ but with stress retracted on to the initial stem syllable in the accusative singular (e.g. спина́ ‘back’)), paradigm $f$ (desinential stress throughout, except for the nominative plural which has stem stress on the initial stem syllable (e.g. губа́ ‘lip’)), and pattern $f'$ (as pattern $f$, but with stress retracted on to the initial stem syllable in the accusative singular (e.g. рука́ ‘hand’, голова́ ‘head’)). If, as is thought or shown to be the case by various scholars (see Xazagerov 1973, 102-106 and Ukiah 2002, 25 respectively), that the general direction of mobile inflectional stress is towards a columnar opposition between singular and plural, e.g. desinential stress in the singular vs. stem stress in the plural, then it is pattern $d$ which emerges as the key paradigm in the future development of Russian mobile stress of feminine nouns. Since patterns $d’, f$ and $f'$ all contain at least one stem stressed form in the plural, it is logical that they will come under increasing analogical pressure from the $d$ type (particularly in lower frequency lexemes), initially producing variants in the relevant ‘anomalous’ (from the point of view of pattern $d$) grammatical cases and ultimately a columnar desinential/stem stress type characterised by pattern $d$. The ‘anomaly’ of the retracted accusative singular (types $d’$ and $f$) would also be overridden by analogy to a singular desinential type of stress, again, presumably, first in lower frequency nouns and subsequently spreading beyond that to encompass all such nouns.

The aim of this article is to test the above hypotheses, first and foremost in nouns with pattern $d$, and also in its subgroup, pattern $d’$. Indeed, from the point of view of the dynamics of word stress, the question of whether the latter pattern behaves as a subgroup of the former pattern is one that needs to be examined. The method taken is to compare the data found in two normative accounts from the same period approximately (Zaliznjak 1977 and Fedjanina 1982) with that found in a recent Russian orthoepic dictionary containing some 12,000 entries on variation and difficult cases of pronunciation and word stress (Gorbačeviç 2010) by a prominent expert in the area of accentuation, K.S. Gorbačeviç (see, for example, discussions of word stress in Russian by Gorbačeviç (1978a, 1978b)). In this way, changes in stress over the last forty years approximately can be examined. The hypotheses are: a) because pattern $d$ is in the ascendancy, a majority of nouns of this type in normative sources from the same period approximately (Zaliznjak 1977 and Fedjanina 1982) are stable from the accentual point of view and, therefore, do not show variation and do not appear in Gorbačeviç 2010; b) that instances of stress variation in Gorbačeviç 2010, generally indicate movement towards pattern $d$ from low- or mid-frequency nouns of patterns $f, f’, d’$ and possibly even $b$ (with a realignment of the plural forms with ending stress to fixed stem stress).

Apart from its extensive size (around 12,000 units) and the expertise of its author, Gorbačeviç 2010 is also noteworthy for the fact that it provides stylistic comments on most stress variants, unlike, for example, Rezničenko 2003, another fairly recent orthoepic dictionary of Russian, which simply lists variants without comment. These stylistic comments or deprecations in Gorbačeviç 2010 allow us to make certain inferences about the direction of accentual change. They are arranged in descending order of correctness from ‘acceptable’ (‘допустимо’) to ‘not recommended’ (‘не рекомендуется’) to ‘sub-standard’ (‘просторечне’) to ‘incorrect’ (‘неправильно’) (ibid., 9-11). Although these are not scientifically delineated categories, being ultimately the ‘subjective pick’ of the author, nevertheless, they do provide an indication of increasing to decreasing tendency with regard to stress shifts in the direction of the deprecated
Thus, if we take ‘acceptable’ to represent the strongest degree of variation, ‘not recommended’ can be termed ‘strong’, substandard as ‘weak’ and ‘incorrect’ as ‘very weak’. In addition, two temporal deprecations, ‘obsolescent’ (‘устаревающее’) and ‘obsolete’ (‘устарелое’), represent stress shifts away from the stress of the deprecated variant, ‘obsolete’ representing a more advanced, indeed, complete stage than the ongoing ‘obsolescent’. It is these two latter deprecations which would be expected to feature in pattern-\(d\) nouns with variation (i.e. movement from patterns \(f, f', d'\) and \(b\) towards \(d\)).

Frequency is also used in the analysis. On the whole, frequency sources are scarce in Russian. Although hitherto Zasorina (1977) was generally regarded as the fundamental reference book on frequency in Russian (see, for example, Cubberley 1987, which makes extensive use of this work), Sharoff’s more recent online Russian frequency list (further referred to by the abbreviation RFL) now comprises the largest corpus to date (50,000 words), as well as being more contemporary in terms of the usage which it is based on.[7] Frequency and assimilation are, of course, closely connected, as discussed by Zaliznjak (1977a, 75). Assimilated words are defined as those with which speakers of Russian are familiar in the course of their everyday or professional lives; unassimilated words are those words with which such speakers are generally not familiar, since they are connected, for example, with other countries, professions, historical eras or social/professional groups, or they are words with which a given speaker has only recently become acquainted. Zaliznjak (ibid.), although conceding the limitations of being able to know for certain the status of assimilation of every lexeme, suggests a three-way division of the total Russian vocabulary into commonly used (e.g., хлеб ‘bread’, generally known (e.g., болт ‘bolt’) and not generally known (e.g., гарп ‘typemetal’). Using informal methods (including asking native speakers their knowledge of random vocabulary items), RFL (50,000 words in total) is henceforth in this article broken down into high-frequency lexemes (the most frequent 10,000 words in RFL), mid-frequency lexemes (the following 30,000 lemmas in terms of frequency in RFL) and low-frequency lexemes, represented by the remaining 10,000 lemmas in RFL plus those which do not occur in it at all.

Data and analysis

In this section, data from Gorbačević 2010 is compared with normative data from Fedjanina 1982 and Zaliznjak 1977, firstly for pattern-\(d\) nouns and then for pattern-\(d'\) nouns. Kiparsky 1962 also provides information on the original stress types of some of these nouns, and Ukiah’s (2003) comments on pattern-\(d'\) nouns are also included where relevant. Although Fedjanina 1982 and Kiparsky 1962 use different systems of stress notation (e.g. pattern \(f\) is pattern \(BC\) in Fedjanina, type \(B\) in Kiparsky), only Zaliznjak’s system will be used in this article in order to avoid confusion and needless complexity, i.e. Fedjanina’s and Kiparsky’s systems are adapted to Zaliznjak’s. As Zaliznjak 1977 and Gorbačević 2010 are lexicographical (alphabetical) sources, page numbers in them are not given. The frequency types given, namely high, mid and low, have been discussed in Section 2 above.

Pattern \(d\)

In this section feminine nouns with normative stress pattern \(d\) (the list is taken from Fedjanina 1982, 95-97, BA stress pattern) are examined and compared with Gorbačević 2010. As stated above, the hypotheses are that: a) a majority of nouns with original or normative pattern \(d\) do not show variation within this mobile paradigm and, thus, do not appear in Gorbačević 2010; b) that
instances of stress variation in Gorbačević 2010 generally indicate movement towards pattern $d$ from original patterns $f, f^*$; $d$ and also $b$, with (low) frequency as a possible factor.

To begin with, however, in line with the first hypothesis, more than half of the nouns of type $d$ listed by Fedjanina (1982, 95-97), 63 out of 120, do not display any variation and do not, therefore, appear in Gorbačević 2010. This is clear evidence of a high degree of stability in pattern-$d$ nouns and supports the first hypothesis. These nouns are as follows (frequency levels are put in brackets, high - H, mid - M and low -L): арба́ ‘bullock cart’ (M), басмá ‘seal with imprint of khan’ (L),[9] бе́дá ‘misfortune’ (H), блеснá ‘spoon-bait’ (M), блóха ‘flea’ (M), быстра́на ‘rapid’ (L),[9] вдо́вá ‘widow’ (L), ветла ‘willow’ (L), ветчина ‘ham’ (M), вина ‘fault’ (H), война ‘war’ (H), высо́та ‘height’ (H), вышина ‘height’ (M), глубинá ‘depth’ (H), гроза́ ‘storm’ (H), десна́ ‘gum’ (M), длина́ ‘length’ (H), длино́та ‘length, proximity’ (L), долгота́ ‘length, longitude’ (M), до́ха ‘fur coat’ (L), дро́фа ‘bustard’ (L), ду́га ‘arc’ (H), дыра ‘hole’ (H), жена́ ‘wife’ (H), звезда́ ‘star’ (H), зме́я ‘snake’ (H), игра́ ‘game, play’ (H), икра́ ‘calf (of leg)’ (L), кирка́ ‘pick-axe’ (M), кислотá ‘acidity’ (H), колбасá ‘sausage’ (H), красотá ‘beauty’ (H), крупá ‘cereals’ (M), леса́ ‘scaffolding’ (L), лиса́ ‘fox’ (M), лукá ‘pom mel’ (M), луна́ ‘moon’ (H), мерзлóта ‘frozen condition of ground’ (M), метá ‘goal’ (M), нужда́ ‘need’ (H), ольхá ‘alder’ (M), пасты́ла ‘pastila (sweet)’ (L), пе́шня ‘ice-pick’ (L), пила́ ‘saw’ (M), плюсна́ ‘metatarsus’ (L), полá ‘skirt’ (H), пустотá ‘emptiness’ (H), пчела́ ‘bee’ (M), седи́на ‘grey hair’ (M), скóрлупа ‘shell’ (M), слю́да ‘mica’ (M), смóлa ‘resin’ (L), срело́ ‘environment’ (H), старшина́ ‘sergeant major’ (H), стопá ‘ream; metric foot; pile’ (L), стра́дá ‘toil’ (M), стрекозá ‘dragonfly’ (M), стре́хá ‘eaves’ (L), тавле́я ‘chess board’ (L), то́шнота́ ‘nausea’ (M), уда́ ‘hook’ (M), часстóта ‘frequency’ (H), широтá ‘width’ (M). In total there are 13 nouns with low frequency (20.6 %), 25 with mid frequency (39.7 %) and 25 with high frequency (39.7 %). This contradicts the hypothesis of Hingly 1952 discussed above, since the vast majority of nouns with stable pattern $d$ and mid to high frequency is, therefore, approximately 80%.

In addition to this feature of pattern-$d$ nouns, previous research has identified an ongoing shift of stress in Russian feminine first-declension nouns from pattern $f$ to pattern $d$, particularly in nouns with a lower frequency. In the following ten nouns, clear evidence was found (Ükhina 2002, 24) of a shift towards pattern $d$: волна́ ‘wave’ (also ‘wool’ as dialect singulare tantum), коннá ‘shock, stook (of corn)’, межá ‘boundary-strip’, серýя́ ‘earring’, скóбá ‘clamp’, скворода́ ‘frying-pan’, слévá ‘settlement with non-serf population’, стрóфа ‘stanza, strophe’, трóпа ‘path’ and ицепá ‘splinter’. Of these nouns, seven were found (Lagerberg 2018, 92) to have mid frequency (out of a total of fourteen such nouns with mid frequency) and three high frequency (out of a total of twelve such nouns with high frequency), confirming that there is some correlation between frequency and the probability of a stress shift to pattern $d$: only a quarter of the nouns with high frequency show this tendency, as opposed to half of those with mid frequency. This feature is shown particularly clearly, in fact, by the reverse phenomenon, whereby high-frequency nouns with pattern $f$ can be shown to be retaining this stress type: thus, the data in Gorbačević 2010 suggests that nine nouns (i.e. 75% of pattern-$f$ nouns with high frequency), viz головá ‘head, person in charge’, губá ‘lip’, железá ‘gland’, ноздря́ ‘nostril’, просты́ня ‘sheet’, пятá ‘heel’, свечá ‘candle’, слéзя ‘tear’ и стрóка ‘line’, all of which have high frequency with the exception of пятá which has mid frequency, are currently not showing any tendency to move from pattern $f$ to pattern $d$. A connection between high frequency and accentual stability with regard to pattern $f$ can, therefore, be clearly established, whereby high frequency acts as a barrier against nouns moving to pattern $d$, as well as the reverse phenomenon, whereby low-mid frequency results in a freer flow of nouns from pattern $f$ to pattern $d$.
There now follows an analysis of pattern-d nouns listed both in Fedjanina 1982 and in Gorbačevič 2010 (with variant stress forms):

верста ‘verst’

Zaliznjak 1977 and Fedjanina (1982, 96) have pattern $d$, though the latter, incorrectly, one presumes, includes it also in $d$’ (ibid., 100) as a noun which moves stress on to the preposition (e.g. на версту). High frequency. Gorbačevič 2010 classifies it as pattern $d$, but also mentions that the accusative singular вёрысти is archaic (thus previous pattern $d$’ or $f$’?) and that the prepositional plural (and, presumably, the dative and instrumental) allows both stem and ending stress without differentiation (вёрстах, верстах). Kiparsky (1962, 211-212, 229, 231) suggests original pattern $f$’ moving to pattern $d$, but an intermediate stage of $d$’ cannot be confirmed. The oblique plural cases with ending stress in Gorbačevič 2010, although not stated as such, support an earlier $f$’ and/or $d$’. High frequency as a restrictive factor appears to have been overridden in this case in an ongoing shift from $f$’ > $d$’(? > $d$.

весна ‘spring’

Zaliznjak 1977 and Fedjanina (1982, 97) have pattern $d$. High frequency. Gorbačevič 2010 has pattern $d$, but also gives the accusative singular form вёсну which is deprecated as ‘неправильно’, thus showing a weak tendency towards $d$’. Kiparsky (1962, 212) suggests an original pattern $f$’ developing into $d$’ and then $d$. Pattern $d$ is, therefore, relatively stable in this high-frequency noun. The evidence of Gorbačevič 2010 may, in fact, point to a residual tendency towards $f$’ and/or $d$’.

волна ‘wave’

Both Zaliznjak 1977 and Fedjanina (1982, 96) have patterns $d$ and $f$ without any stylistic or other distinction. High frequency. Gorbačevič 2010 also gives $d$ and $f$, however, pattern $d$ is treated as ‘допустимо’, thus suggesting an ongoing shift from $f$ to $d$. Kiparsky (1962, 204) treats pattern $b$ (fixed ending stress) in fact as the most likely original pattern which went into decline in the sixteenth century; subsequently the noun moved from pattern $f$ to $d$. It appears, therefore, that pattern $d$ is essentially the default pattern for this noun, though the move from pattern $f$ is probably being restricted by high frequency.

глава ‘head; cupola; chapter’

Both Zaliznjak 1977 and Fedjanina (1982, 96) have pattern $d$ without variation for all meanings of this noun. High frequency. Gorbačevič 2010 has pattern $d$, but also an archaic (‘устарелое’) pattern $b$, which is also suggested by Kiparsky (962, 213) as the norm as late as the nineteenth century. This noun, therefore, has moved from type $b$ to $d$.

заря ‘dawn, sunset; reveille (military)’

Fedjanina (1982, 97) has pattern $d$ (nom. pl. зоро́) for the meaning ‘рассвет’. Zaliznjak 1977 also has pattern $d$ for this meaning, but pattern $f$ as archaic; for the meaning ‘reveille’, a noun with fixed stem stress is given, i.e. зоря. High frequency. Gorbačevič 2010 also has pattern $d$ with pattern $f$ deprecated as ‘устаревающее’, but also includes the accusative singular form зорю for the meaning reveille (pattern $d$’). Although not without some uncertainty, Kiparsky (1962, 215) suggests type $f$’ as original (though type $b$ is also possible), later transitioning to pattern $f$ and then $d$ by the twentieth century. Like Gorbačevič 2010, he also cites evidence of a separate pattern $d$’ for the meaning ‘reveille’. Leaving aside the secondary meaning ‘reveille’, which, it seems, now has a separate form зоря, this noun appears to have followed...
a route from pattern $f'$ to $f$ and then $d$.

зола́ ‘ashes’

Fedjanina (1982, 96) and Zaliznjak 1977 both have pattern $d$ without variation. Mid frequency. Gorbačevič 2010 has ending stress for singular forms (though no plural forms, thus, one can tentatively assume pattern $d$), and pattern $d'$ (acc. sg. золу) as ‘устарелое’. As a result of a lack of comparative sources and also plural forms of this noun (which is treated by some dictionaries as *singulare tantum*), Kiparsky (1962, 216) is unable to ascertain the original type, but tentatively suggests a path from pattern $f'$ to pattern $d$, possibly with an intermediate $d'$.

игла́ ‘needle’

Fedjanina (1982, 97) and Zaliznjak 1977 both have pattern $d$ without variation. High frequency. Gorbačevič 2010 has pattern $d$ as normative, while pattern $d'$ (accusative singular иглу) is ‘устарело’. The alternative genitive plural form игол (as opposed to standard игл) is also described as ‘архаичное’. A weak tendency towards pattern $f$ (prepositional plural на иглах ‘неправильно’) is certainly unexpected and hard to explain unless as residual pattern $f$. Kiparsky (1962, 216) gives an unambiguous path from original pattern $f'$ to a later (nineteenth century) $f$ and then $d$.

избэ́ ‘peasant hut’

Both Fedjanina (1982, 96) and Zaliznjak 1977 have patterns $d$ and $d'$ without any stylistic distinction. High frequency. Gorbačevič 2010 has pattern $d$ as normative, while pattern $d'$ (acc. sing. избу) is ‘устаревающее’. Kiparsky (1962, 216) finds strong evidence for original pattern $f'$ with the shift to pattern $d$ (with some instances of pattern $d'$ also) beginning in the early 19th century. This noun, therefore, is another good example of the postulated stress shift $f' > d' (?) > d$ which, in this case, has overridden high frequency.

коза́ ‘she-goat’

Fedjanina (1982, 96) and Zaliznjak 1977 both have pattern $d$ without variation, although the latter source also includes the idiom драть (битъ, лупить) как сидорову козу ‘to beat black and blue’, thus suggesting an alternative older mobile pattern. High frequency. Gorbačevič 2010 has pattern $d$ as normative, while pattern $d'$ or $f'$ (accusative singular козу) is ‘устарелое’, also citing the phrase драть как сидорову козу as evidence of the earlier pattern. Kiparsky (1962, 217) finds evidence for an original pattern $f'$, later becoming pattern $d$ in twentieth-century sources. The form козу, therefore, appears to go back to pattern $f'$. Once again high frequency has not been able to prevent the shift towards pattern $d$ which is now normative.

коса́ (‘plait’)

See 3.2 below.

коса́ (‘scythe’)

See 3.2 below.

лоза́ ‘rod, with, vine’

Both Fedjanina (1982, 96) and Zaliznjak 1977 have pattern $d$. Mid frequency. Gorbačevič 2010 has pattern $d$ as normative, while pattern $d'$ (or $f'$) (accusative singular лозу) is
‘устарелое’. Kiparsky (1962, 218) finds evidence for an original pattern $f'$, later becoming pattern $d$ in twentieth-century sources.

метла́ ‘broom’

Both Fedjanina (1982, 97) and Zaliznjak 1977 have pattern $d$. High frequency. Gorbačevič 2010 has pattern $d$ as normative, but the unexpected instrumental plural form метлами́ (‘неправильно’) which is hard to account for unless one considers it to be influenced by the original pattern $f'$ (Kiparsky 1962, 218). The route for this noun is, therefore, $f' > d$ notwithstanding high frequency.

нора́ ‘burrow’

Both Fedjanina (1982, 96) and Zaliznjak 1977 have pattern $d$ without variation. High frequency. Gorbačevič 2010 has pattern $d$ as normative, but pattern $d'$ (accusative singular но́ру) is ‘устаревающее’. Kiparsky (1962, 218) cannot reach firm conclusions about the original type, but suggests pattern $f'$ or, perhaps, pattern $b$, both of which have competing claims. By the twentieth century, however, pattern $d$ is the norm in lexicographical sources (ibid.). The route taken by this noun seems, therefore, to be of the general type postulated, notwithstanding high frequency: $f'b > d' > d$.

овца́ ‘sheep’

Both Fedjanina (1982, 97) and Zaliznjak 1977 have pattern $d$ without variation. High frequency. Gorbačevič 2010 has pattern $d$ as normative, while pattern $d'$ (accusative singular о́вцу́) is ‘устарелое’. Kiparsky (1962, 218) finds evidence for an original pattern $f'$ which becomes pattern $f$ as a result of the accusative singular form овъять as early as the nineteenth century (e.g. in Krylov’s work circa 1820), later (twentieth century) becoming pattern $d$, but still with traces of a colloquial pattern $d'$. Although the intermediate stage is not entirely clear, this high-frequency noun follows the hypothesised shift from $f' > d' > f > d$.

орда́ ‘horde’

Both Fedjanina (1982, 96) and Zaliznjak 1977 have pattern $d$ without any variation. Mid frequency. Gorbačevič 2010 has pattern $d$ as normative, while pattern $d'$ (accusative singular о́рду) is ‘устарелое’. Kiparsky (1962, 219) finds evidence for an original pattern $b$ with a subsequent shift of stress which cannot be determined exactly – either to pattern $d$, $d'$ or $f$: the evidence of Gorbačevič 2010 suggests pattern $d'$ as more likely. By the twentieth century, however, pattern $d$ is the norm in lexicographical sources (ibid.). Although the intermediate stage is not entirely clear, this noun follows the hypothesised shift from $b > d' (?) / f (?) > d$.

оса́ ‘wasp’

Both Fedjanina (1982, 96) and Zaliznjak 1977 have pattern $d$ without any variation. Mid frequency. Gorbačevič 2010 has pattern $d$ as normative, while pattern $d'$ (accusative singular о́су́) is ‘устарелое’. Although contradicted by Serbian and Bulgarian accent patterns for this noun (which suggest ending stress, pattern $b$), it seems that the original pattern was $f'$ and was still used in the nineteenth century (Kiparsky 1962, 220). By the twentieth century, however, pattern $d$ had become the norm in lexicographical sources (ibid.). The evidence of Gorbačevič 2010 could point either to the original pattern $f'$ or an intermediate pattern $d'$. Perhaps the latter is more likely given the absence of any archaic variants with ending stress in the plural in Gorbačevič 2010 (e.g. *оса́м), thus $f' > d'(?) > d$. 

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плита ‘plate, slab’

Both Fedjanina (1982, 96) and Zaliznjak 1977 have pattern d without any variation. High frequency. Gorbačević 2010 has pattern d as normative, while pattern d’ (accusative singular плиту) is ‘устарелое’. Kiparsky (1962, 220-221) is unable to discern any distinct stress patterns for this noun’s early history, even admitting the possibility of pattern a and/or b, out of which eventually the currently normative pattern d emerged. The evidence of Gorbačević 2010 points at least to the possibility of an intermediate pattern d’, which, as been shown above, can develop from an older pattern b or, more frequently, f’. A possible route for this noun, therefore, could be a (?) > b (?) > d’ > d.

просвиря ‘communion bread’

Fedjanina (1982, 97 and 99) has pattern d for просвиря (plural therefore просвiry, просвир, просвиром) and pattern f for the alternate (in church use) form просфора (plural просфоры, просфоr, просфорам). Zaliznjak 1977 has pattern f for both forms. Low frequency. Although he does not give the dative, instrumental and prepositional plural forms, Gorbačević 2010 seems to be suggesting pattern f for this noun, despite its low frequency, with ending stress in the singular and mobility in the plural forms: просфоры, просфоr / просвiry, просвир. Originally borrowed from Greek просфора ‘offering’, Kiparsky believes pattern f’ to be original, later changing to pattern f for the form просфора and f/d for просвиря. Ukiah (2002, 11) finds that most of his respondents chose a partial pattern-d paradigm, with ending stress in the singular, and, in the plural просвiry, просвир, просвиром etc., i.e. the nominative/accusative and genitive plural conform to pattern f, but the remaining forms are pattern d, possibly influenced by the position of stress in the genitive plural and the low frequency of this noun. Ukiah (ibid.) also notes a possible levelling of stress on the stem-final syllable throughout both paradigms, thus просфора (which Gorbačević 2010 also deprecates as ‘not recommended’), which could be influenced also by the use of a diminutive form просфорка/просвирка. This low-frequency noun, therefore, does not support the hypothesis as it does not seem to be shifting from f to d.

река ‘river’

See 3.2 below.

роса ‘dew’

Fedjanina 1982 fails to include this word, though it is listed in the index as a pattern-d noun (ibid., 295). Zaliznjak also gives pattern d without variation. Mid frequency. Gorbačević 2010 has pattern d as normative, while pattern d’ (acc. sing. росу) is ‘устарелое’. Kiparsky (1962, 221) gives pattern f’ as the original type, still used as late as the nineteenth century. Pattern d appears to have stabilised in the twentieth century with some possible variation with pattern f. The route of this noun can be posited as f’ > f > d. The form in Gorbačević 2010 is, therefore, unclear, but could be a residue of pattern f’.

руда ‘ore’

Both Fedjanina (1982, 96) and Zaliznjak 1977 have pattern d without any variation. High frequency. Gorbačević 2010 has pattern d as normative, while pattern d’ (acc. sing. руду) is ‘устарелое’. Kiparsky (1962, 221-222) gives the original pattern as b, later becoming d without any intermediate stages discernible. The evidence of Gorbačević 2010, however, points at least to the possibility of an intermediate pattern d’. A possible route for this noun,
therefore, could be \( b > d'(?!) > d \).

**свинья** ‘pig’

Both Fedjanina (1982, 97) and Zaliznjak 1977 have pattern \( d \), although the genitive plural is given as *свиней*, i.e. on a different syllable to the other plural forms (viz. *свиньи*, *свиньям* etc.). Zaliznjak 1977 also notes the (pattern \( f \)) stress *свиньём* used in abuse of the type ‘ну его к свиньям’ (‘well he can go to hell’ (literally, ‘him to the pigs’)). High frequency. Gorbačevič 2010 has pattern \( d \) as normative, while pattern \( d' \) (accusative singular *свинью*) is ‘устарело’, and he also notes the dative plural form *свиньям* used in abuse. Kiparsky (1962, 222) posits, albeit rather hesitantly as a result of a lack of instances of this noun in his early Russian sources, pattern \( f' \); later (certainly by the mid twentieth century) becoming pattern \( d \). The evidence of Gorbačevič 2010 is ambiguous: it points at least to the possibility of an intermediate pattern \( d' \), but also directly back to the accusative singular stress of the original pattern \( f' \). The route for this noun, therefore, appears to be \( f' > d'(?!) > d \).

**семья** ‘family’

Both Fedjanina (1982, 97) and Zaliznjak 1977 have pattern \( d \), although the genitive plural is given as *семей*, i.e. on a different syllable to the other plural forms (viz. *семьи*, *семьям* etc.). High frequency. Gorbačevič 2010 has pattern \( d \) as normative, but also has variation in the accusative singular (семьё vs. семью (‘устарелое’)) and in the instrumental plural (семьёми vs. семьями (‘устарелое’)). Kiparsky (1962, 222) is unable to come to a clear decision about the original stress of this noun as a result of a lack of south Slav correspondences and few instances of this noun in his early Russian sources. Pattern \( f' \), however, appears to have been possible as late as the early nineteenth century and this is borne out by the archaic forms in Gorbačevič 2010. The stress of this noun, therefore, appears to have developed simply from pattern \( f' \) to \( d \).

**сестра** ‘sister’

Both Fedjanina (1982, 97) and Zaliznjak 1977 have pattern \( d \), although the genitive plural is given as *сестёр*, i.e. on a different syllable to the other plural forms (viz. *сёстры*, *сёстрам* etc.). Zaliznjak 1977 and Gorbačevič 2010 also have the proverb ‘всем сестрам по серёгам’ (‘everybody gets what they deserve’), indicating previous pattern \( f \). High frequency. Gorbačevič 2010 has pattern \( d \) as normative, but also the accusative singular form *сестру* (‘неправильно’) and variation in the plural oblique cases between normative stem stress and (‘устарелое’) ending stress, *сестрам*, *сестра́ми*. Kiparsky (1962, 222) gives pattern \( b \) as original, later developing to \( f \) (nineteenth century) and subsequently pattern \( d \) (by the twentieth century). The form *сестры* in Gorbačevič 2010 is anomalous. The route of the stress of this noun, therefore, appears to be pattern \( b > f > d \).

**сирота** ‘orphan’

Both Fedjanina (1982, 97) and Zaliznjak 1977 have pattern \( d \) without variation. High frequency. Gorbačevič 2010 also has normative pattern \( d \), but variation in the syllable stressed in the plural forms: normative are *сироты*, *сирót*, *сирóтам* etc., while the alternative pattern-\( d \) forms *сирóты*, *сирóт*, *сирóтам* etc. are ‘неправильно’. Kiparsky (1962, 222-223) gives pattern \( b \) as original, later becoming pattern \( d \) by the twentieth century. Kiparsky (ibid.) also notes the plural variants given in Gorbačevič 2010, stating that the forms *сирóты*, *сирóт*, *сирóтам* are preferred in lexicographical sources. The stress of
this noun, therefore, has developed from pattern $b$ to pattern $d$. 

скатá ‘rock’

Both Fedjanina (1982, 96) and Zaliznjak 1977 have pattern $d$ without variation. High frequency. Gorbačevič 2010 also has normative pattern $d$, but variation in the accusative singular between normative скат́у and (‘устарелое’) скату, and in the plural between normative stem stress and (‘устарелое’) ending stress (скат́ы, скал, скатам etc.) which he states was still used widely in the nineteenth century, particularly poetry. These archaic forms taken together do not point to one stress pattern, but rather indicate patterns $f$, $f'$, $d'$ and $b$. Kiparsky (1962, 223) suggests that pattern $b$ may have been original, subsequently perhaps developing into pattern $f'$ (though this is not clear and not supported by the nominative plural скаты in Gorbačevič 2010, although the accusative singular form скату which he cites could indeed go back to pattern $f'$) and only much later (late nineteenth century or early twentieth century) into pattern $d$. The stress of this noun, therefore, appears to have developed from pattern $b$ to pattern $d$ with the possibility of an intermediate stage of pattern $f'$.

скулá ‘cheek-bone’

Both Fedjanina (1982, 96) and Zaliznjak 1977 have pattern $d$ without variation. Mid frequency. Gorbačevič 2010 has normative pattern $d$, but also (‘устарелое’) pattern $f$ (dative plural скулам). Kiparsky (1962, 223) finds evidence for an original pattern $b$, shifting to pattern $f$ (by the nineteenth century) and pattern $d$ (by the twentieth century). The variation in Gorbačevič 2010, therefore, supports the existence of the intermediate stage (pattern $f$) in this noun’s development from pattern $b$ to $f$ to $d$.

слугá ‘servant’

Both Fedjanina (1982, 96) and Zaliznjak 1977 have pattern $d$ without variation. High frequency. Gorbačevič 2010 has normative pattern $d$, but also (‘устарелое’) pattern $f$ (dative plural слугам). In a similar way to скулá (above), Kiparsky (1962, 223) finds evidence for an original pattern $b$, shifting to pattern $f$ (by the nineteenth century) and pattern $d$ (by the twentieth century). The variation in Gorbačevič 2010, therefore, supports the existence of the intermediate stage (pattern $f$) in this noun’s development from pattern $b$ to $f$ to $d$.

сноха́ ‘daughter-in-law’

Both Fedjanina (1982, 96) and Zaliznjak 1977 have pattern $d$ without variation. Mid frequency. Gorbačevič 2010 has normative pattern $d$, but variation in the accusative singular between сноху́ and (‘устарелое’) сноху (suggesting a shift from a previous pattern $d'$). Kiparsky (1962, 224) posits pattern $b$ as the original stress type, subsequently becoming pattern $f$ and then pattern $d$, but no mention is made of pattern $d'$. In this instance, therefore, there is a discrepancy between Gorbačevič 2010 and Kiparsky 1962. The possible route taken by this noun is $b > f/d' (?) > d$.

сова́ ‘owl’

Both Fedjanina (1982, 96) and Zaliznjak 1977 have pattern $d$ without variation. Mid frequency. Gorbačevič 2010 has normative pattern $d$, but (‘устарелое’) ending stress in the plural, thus pattern $b$ (совы́, сов, совам etc.). In a similar way to скулá and слугá (above), Kiparsky (1962, 224) finds evidence for an original pattern $b$, shifting to pattern $f$ (by the nineteenth century) and pattern $d$ (by the twentieth century). The variation in Gorbačevič
2010, therefore, supports the existence of the first stage (pattern \( f \)) in this noun’s development from pattern \( b \) to \( f \) to \( d \).

cосна́ ‘pine-tree’

Both Fedjanina (1982, 97) and Zaliznjak 1977 have pattern \( d \) without variation. High frequency. Gorbačević 2010 has normative pattern \( d \), but also (‘устарелое’) pattern \( a \) (nominative singular \( \text{косна} \) and (‘устарелое’) pattern \( f \) (dative plural \( \text{коснам} \)). The noun’s history is somewhat complex: Kiparsky (1962, 224) believes that pattern \( a \) was indeed the original pattern, later developing into \( f \)’ (though this is unclear) then \( d \’ \) and/or \( f \), and finally stabilising pattern \( d \) possibly as late as the twentieth century. Gorbačević 2010, therefore, describes the earliest pattern \( (a) \), the intermediate pattern \( (f) \) and the current norm \( (d) \).

cофа́ ‘sofa’

Fedjanina (1982, 96) has pattern \( d \), while Zaliznjak 1977 has both patterns \( d \) and \( f \). Mid frequency. Like Zaliznjak, Gorbačević 2010 has both patterns \( d \) and \( f \) without distinction (dative plural \( \text{софа́м} \) / \( \text{софам} \)), and also pattern \( a \) (\( \text{софа} \)) which is described as ‘устарелое’. Although the picture is not entirely clear, Kiparsky (1962, 224) gives pattern \( b \) as the original type for this French loanword, subsequently changing to patterns \( f \) and \( d \) (pattern \( a \) also appears in one source, though is not recommended), with the latter the preferred type in lexicographical sources.

cоха́ ‘wooden plough’

Both Fedjanina (1982, 96) and Zaliznjak 1977 have pattern \( d \) without variation. Mid frequency. Gorbačević 2010 has normative pattern \( d \), but also (‘устарелое’) \( d \’ \) (acc. sg. \( \text{соха́} \)). Pattern \( f \) (dative plural \( \text{соха́м} \)) is also given, but with the deprecation ‘неправильно’. Kiparsky (1962, 225) finds evidence for an original pattern \( f \’) which was still used by poets in the nineteenth century, subsequently shifting to \( f \) and then \( d \).

There is, therefore, some discrepancy between Gorbačević 2010 and Kiparsky 1962. If one accepts, however, the trajectory \( f \’) > \( f \) > \( d \), as given by Kiparsky, then Gorbačević’s assertion of the plural forms with ending stress as incorrect can perhaps be read rather as a residue of pattern \( f \).

страна́ ‘country’

Both Fedjanina (1982, 96) and Zaliznjak 1977 have pattern \( d \) without variation. High frequency. Gorbačević 2010 has normative pattern \( d \), but also (‘устарелое’) pattern \( b \) (nominative plural \( \text{страны́} \)). Kiparsky (1962, 225-226) finds some evidence for original pattern \( f \’) for this Church Slavonic loanword, just as for the etymologically related Russian word \( \text{сторона́} \) ‘side’ which still retains this stress pattern. However, there is also strong evidence for early pattern \( b \) and even pattern \( a \), and some evidence for an intermediate stage of pattern \( f \). Pattern \( d \) appears to have stabilised by the twentieth century. The path of the stress of this noun, thus, appears to be \( f \’) / \( b \) / \( a (?) \) > \( f (?) \) > \( d \).

стрела́ ‘arrow’

Both Fedjanina (1982, 96) and Zaliznjak 1977 have pattern \( d \) without variation. High frequency. Gorbačević 2010 has normative pattern \( d \), but also (‘устарелое’) pattern \( f \’) (accusative singular \( \text{стре́лу} \), plural oblique cases \( \text{стрелам} \), \( \text{стрелами} \), \( \text{стрелах} \)). Kiparsky (1962, 226) finds clear evidence for pattern \( f \’ \), shifting to pattern \( f \), then \( d \’ \) and finally \( d \) from
around the start of the nineteenth century. The archaic forms in Gorbačevič 2010 capture the original pattern of stress for this noun.

стрельба́ ‘shooting’

Both Fedjanina (1982, 97) and Zaliznjak 1977 have pattern \( d \) without variation. High frequency. Gorbačevič 2010 has normative pattern \( d \), but also (‘неправильно’) pattern \( f \) (dative plural стрельбáм). Kiparsky (1962, 226) finds some evidence for an earlier pattern \( b \), however, pattern \( d \) has stabilised by the twentieth century. Again, it is hard to reconcile a possible ongoing shift towards pattern \( f \) as found in Gorbačevič 2010 with Kiparsky 1962. It is possible this tendency is in fact a residue of the plural forms of the earlier pattern \( b \).

строка́ ‘line’

Both Fedjanina (1982, 96) and Zaliznjak 1977 have patterns \( d \) and \( f \) without making any differentiation between the two. High frequency. Gorbačevič 2010 has normative pattern \( d \), but also (‘устаревающее’) pattern \( d' \): accusative singular стрóку. Both Zaliznjak 1977 and Gorbačevič 2010 cite the proverb ‘не всякое лыко в стрóку’ (‘everybody makes mistakes’) with the accusative singular’s retracted stress. Kiparsky (1962, 209) finds it hard to establish the history of this noun’s stress, mainly as the result of a lack of a corresponding South Slavic noun, but suggests pattern \( f' \) as original, later becoming \( f \) (possibly in the eighteenth century). He makes no mention of pattern \( d \) which could indicate that this is a much later twentieth-century development (\( f' > f/d' (?)) > d \).

строфá ‘stanza, strophe’

Both Fedjanina (1982, 96) and Zaliznjak 1977 have patterns \( d \) and \( f \) without making any differentiation between the two. Mid frequency. Gorbačevič 2010 also has free variation between patterns \( d \) and \( f \). He also warns against the (‘неправильно’) accusative singular stress стрóфу. For this Greek loanword Kiparsky (1962, 209) suggests pattern \( b \) as original, later developing into pattern \( f \) and finally stabilising as pattern \( d \) as late the twentieth century. Once again, it is hard to account for the non-normative accusative singular form in Gorbačevič 2010. The stress of this noun appears to have developed from pattern \( b > f > d \), though pattern \( f \) still remains acceptable and even normative.

струна́ ‘string’

Both Fedjanina (1982, 96) and Zaliznjak 1977 have pattern \( d \) without variation. High frequency. Gorbačevič 2010 has normative pattern \( d \), but also (‘устарелое’) pattern \( b \) (plural forms струны́, струнáм etc.). Although an original pattern \( a \) (струна) cannot be ruled out on the basis of Serbian and Bulgarian, Kiparsky (1962, 226-227) finds evidence for an early pattern \( f \) in Russian itself and this was considered normative by Vostokov in the nineteenth century. Pattern \( d \) appears to have stabilised only in the twentieth century. There is therefore a sharp discrepancy between Zaliznjak 1977 and Gorbačevič 2010 in this case which is represented thus: pattern \( a (?) > f/b > d \).

струйá ‘stream, spurt’

Fedjanina (1982, 97) has pattern \( d \), while Zaliznjak 1977 has pattern \( d \) as normative, but pattern \( b \) as poetic, as does Gorbačevič 2010 also. High frequency. Kiparsky (1962, 231-232) finds that pattern \( b \) is original, later moving towards pattern \( d \) (twentieth century), but still not to the exclusion of the earlier type. Since then, as Gorbačevič 2010 demonstrates, pattern \( d \) has become normative.
Fedjanina (1982, 97) has pattern d, as does Zaliznjak 1977, but with an alternate genitive plural, viz судьи / судьи, especially in the idiom ‘волею судьи’ (‘as the fates decree’). He also gives an alternate instrumental plural судьбами as in the idiom ‘какими судьбами?’ (‘by what chance?’). Both of these forms go back to an original pattern b. High frequency. Gorbačević 2010 has pattern d as normative (the accusative singular судьбу is deemed ‘неправильно’ and is again hard to classify), but also gives pattern b as ‘устарело’ (plural forms судьбы, судьи, судьбам etc.). This is certainly confirmed by Kiparsky (1962, 227) who finds evidence for an original pattern b, later becoming pattern d by the twentieth century with the possibility of pattern f as an intermediate stage (b > f (?) > d).

Fedjanina (1982, 97) has pattern d, as does Zaliznjak 1977, but with an alternate genitive plural, viz судей / судеи. High frequency. Gorbačević 2010 has the same classification as Zaliznjak 1977 (судей is normative, судеи is ‘допустимо’, hence assumed to be an innovation). Kiparsky (1962, 227) finds evidence for an original pattern b, later (nineteenth century) becoming pattern f and stabilising as pattern d in the twentieth century. The stem-stressed genitive plural is likely, therefore, to be a late innovation in order to bring the plural forms into alignment (судьи, судей, судьям etc.).

Both Fedjanina (1982, 96) and Zaliznjak 1977 have pattern d without variation. High frequency. Gorbačević 2010 has normative pattern d, but also (‘устарелое’) pattern b (plural forms толны, толпам etc.). Kiparsky (1962, 227) finds evidence for an original pattern b, shifting to pattern f and then pattern d by the twentieth century. The variation in Gorbačević 2010, therefore, supports the existence of the original pattern in this noun’s development from pattern b to f to d.

Both Fedjanina (1982, 96) and Zaliznjak 1977 have pattern d without variation. High frequency. Gorbačević 2010 also has normative pattern d, but also (‘устарелое’) pattern d’ (accusative singular траву). Kiparsky (1962, 227) is unable to find clear evidence for this noun either in old Russian sources or in south Slavonic languages (he posits pattern f’ for Serbian, pattern b for Bulgarian and Slovenian). However, by the nineteenth century there is evidence of pattern f which becomes pattern d in the twentieth century. There is, therefore, a discrepancy in the intermediate stage of development between Kiparsky 1962 and Gorbačević 2010: pattern f’ > f or d’ (?) > d.

Both Fedjanina (1982, 96) and Zaliznjak 1977 have pattern d and (archaic) pattern f. High frequency. Gorbačević 2010 also has normative pattern d, but (‘устарелое’) pattern f: accusative singular тропу, plural oblique cases тропам, тропами, тропах. Kiparsky (1962, 209) finds clear evidence for an original pattern f’, with vacillation as late as the twentieth century between types d, f and even b. Although the intermediate stages of development are, therefore, somewhat clear, this noun has moved from an original pattern f’ to d, most likely through the route f’ > f > d.
труба́ ‘pipe, trumpet’

Both Fedjanina (1982, 96) and Zaliznjak 1977 have pattern d without variation. High frequency. Gorbačević 2010 has normative pattern d, but also (‘устарелое’) pattern b (plural forms трубы́, трубам etc.). Kiparsky (1962, 228) posits pattern b for this German loanword, shifting to pattern f in the nineteenth century and stabilising as pattern d in the twentieth century, in agreement with the data in Gorbačević 2010.

tюрьма́ ‘prison’

Both Fedjanina (1982, 97) and Zaliznjak 1977 have pattern d without variation. High frequency. Gorbačević 2010 has normative pattern d, but also (‘устарелое’) pattern b (plural forms тюрьмы́, тюрьмам etc.). Kiparsky (1962, 228) suggests pattern b as original for this French loanword, later developing into pattern f in the nineteenth century and finally stabilising as pattern d in the twentieth century, in agreement with the data in Gorbačević 2010.

тягота́ ‘burden, weight’

Fedjanina (1982, 97) has pattern d with an exceptional nominative plural stress, тя́готы (*тяго́ты would be the expected stress). Zaliznjak 1977 also has pattern d, but this meaning is deemed obsolete in favour of the noun тя́жесть: тя́гота (pattern a) is given as the stress position for the meaning ‘загруженность, забота’ (usually found in the plural). Mid frequency. Gorbačević 2010, like Zaliznjak 1977, has normative pattern a (nominative singular тягота), but also (‘устарелое’) pattern b (тягота́, plural forms тяготы́, тягот, тяго́там etc.). Kiparsky (1962, 228) finds evidence for an original pattern b. Pattern b, therefore, can be taken as the original stress type, later shifting to pattern d. However, in conjunction with a semantic change and the fact that the noun is often used in the plural, the new plural stress (pattern d тя́готы) has given rise to a completely new stress pattern a (тя́гота) with a different meaning (‘Difficulty, trouble’).

узда́ ‘bridle’

Both Fedjanina (1982, 96) and Zaliznjak 1977 have pattern d without variation. Mid frequency. Gorbačević 2010 has normative pattern d, but also (‘устарелое’) pattern d’ (accusative singular у́зду). The plural forms (узды́, уздам etc.), i.e. pattern b, are given as ‘допустимо’). Kiparsky (1962, 228) suggests pattern b as original, later developing into pattern f in the nineteenth century and finally stabilising as pattern d in the twentieth century. Once again, there is a discrepancy between Gorbačević 2010 and Zaliznjak 1977. It is hard to account for the accusative singular form in Gorbačević 2010, though, certainly, the plural forms seem to go back to the original pattern b rather than representing a tendency towards ending stress, even though they are termed ‘acceptable’. The stress of this noun appears to have developed from pattern b > f > d.

шкала́ ‘scale’

Both Fedjanina (1982, 96) and Zaliznjak 1977 have pattern d without variation. High frequency. Gorbačević 2010 has normative pattern d, but also (‘неправильно’) pattern b. As this noun does not appear in Kiparsky 1962, it is hard to decide whether pattern b is original or a potentially new pattern, though, as seen above, it is extremely unlikely for nouns to
move from \( d \) to \( b \), thus the route \( b > d \) seems more probable. However, this, of course, calls into question the nature of the deprecation ‘incorrect’.

**Pattern \( d' \)**

In this section twelve feminine nouns with normative stress pattern \( d' \) (the list is taken from Fedjanina 1982, 99-100, CA stress pattern (i.e. pattern \( d' \))) are examined and compared with Zaliznjak 1977 and Gorbačević 2010. These nouns are \( водá \) ‘water’, \( дрога \) ‘centre pole (of cart)’, \( душа \) ‘soul’, \( земля \) ‘land’, \( зима \) ‘winter’, \( изба \) ‘peasant hut’, \( коса \) ‘scythe’, \( коса́ ‘plait of hair’’, \( река́ ‘river’, спина́ ‘back’, стена́ ‘wall’, ценá ‘price’. As a small group, it is to be expected that nouns belonging to it would have a relatively high frequency, and, indeed, this is the case: \( дрога \) is the only noun of this type which has low frequency, while all the others have high frequency.

The main question to be answered is whether pattern \( d' \) is indeed a subtype of or transitional path to pattern \( d \), insofar as nouns of the former pattern are gradually moving towards the latter (as shown above in 3.1, e.g. \( лоза, оса \)), particular those of low-mid frequency. As stated above in Section 1, it is assumed that pattern \( d' \) originated from pattern \( f' \) and also \( f \). Kiparsky (1962, passim) indeed posits original pattern \( f' \) for the majority of all nouns which currently belong to pattern \( d' \); namely \( водá, дрога, душа, земля, зима, изба, коса (both meanings), спинá, стена́ and ценá. For река́ alone (Kiparsky 1962, 207) an original type \( b \) is posited, though not without considerable doubt.

With the historical path from pattern \( f' \) to \( d' \) clearly evident, it remains to be shown whether pattern \( d \) is the next link in this chain through the removal of mobile stress in the singular, i.e. a move of stress in the accusative singular from stem to ending. The following nine nouns (thus, 75% of all twelve pattern-\( d' \) nouns) show variation in the accusative singular in Gorbačević 2010 (unless otherwise stated, Zaliznjak 1977 has pattern \( d' \)):

\[
\begin{align*}
\text{земля́: зёмлю/землио́ (‘неправильно́’)} \\
\text{зима́: зиму/зиму́ (‘устарелое’) } \\
\text{изба́: избу́/избу́ (‘устаревающее́’) (Zaliznjak 1977 has \( dl'd \))} \\
\text{коса́ (‘плait’); косу/косу́ (‘допустимо́’) (Zaliznjak 1977 has \( dl'd \)} \\
\text{коса́ (‘scythe’); косу/косу́ (‘реже́ (‘more rarely’)) (Zaliznjak 1977 has \( dl'd \))} \\
\text{река́: реку́/реку́ (Zaliznjak 1977 has \( dl'd \); \( f' \) (‘устар.’); Gorbačević 2010 also has \( f' \) as устаревающее́ (рекам, реками, реках))} \\
\text{спина́; спину́/спину́ (‘неправильно́’)} \\
\text{стена́: стену́/стену́ (‘неправильно́’) (Zaliznjak 1977 has \( d' \); \( f' \) (‘устар.’); Gorbačević 2010 also has \( f' \) as устаревающее́ (стенам, стенами, стенах))} \\
\text{ценá: цену́/цену́ (‘неправильно́’)}
\end{align*}
\]

With the exception of зима́ which has archaic ending stress in the accusative singular (which goes back to an earlier (early nineteenth century, especially in poetry) pattern \( b \) according to Kiparsky (1962, 202)), all the above nouns show a tendency either away from an older, now archaic pattern \( d' \) towards a currently normative pattern \( d \) (изба, коса́ ‘scythe’), or towards a still non-normative pattern \( d \) (indicated by ‘неправильно’ or ‘допустимо’)) away from normative pattern \( d' \) (земля́, коса́ ‘plait’, спинá, стена́, ценá). In the case of one noun, река́, stylistic information is not present in Gorbačević 2010, but a shift of \( d' \) to \( d \) can be reasonably assumed. These results essentially coincide with Ukiah’s (2003, 14) who sees levelling of the accusative singular to ending stress in line with the rest of the singular forms as characteristic, but also concedes that “a number of items are nevertheless offering strong resistance to this movement.”
Conclusion

The two hypotheses given above for nouns of pattern d are largely borne out by the data. Firstly, nouns of this type can be seen to be largely stable from the accentual point of view and do not display any variation. In total, 63 of the 113 (i.e. over half, 55.8%) nouns of pattern d analysed in this article do not appear in Gorbačevič 2010 as they do not have any variation. As a stress pattern in the ascendancy, this is to be expected, but, nevertheless, the lack of variation is striking given the relatively recent shifts of most nouns to this pattern (often occurring in the nineteenth or twentieth centuries). Frequency, however, as postulated by Hingley 1952 does not appear to have played much of a role in this process: approximately 40% of these 63 stable nouns are high frequency and another 40% mid frequency, leaving only about 20% of them as low frequency nouns. This contradicts the notion put forward by Hingley that pattern d attracts primarily low-frequency nouns and, therefore, underlines its ascendancy all the more.

Secondly, in the vast majority of cases, nouns with variation in Gorbačevič 2010 are, indeed, ongoing shifts of stress from previous patterns (mostly f and b). However, frequency does not play the expected role: out of 47 nouns analysed in Section 3.1, 35 (74.5%) have high frequency, 11 (23.4%) mid frequency and only 1 (2.1%) low frequency. Clearly nouns which are moving towards pattern d, but have ongoing variation, do so as a result of their higher frequency, which acts as a barrier against a wholesale shift. In general terms, the majority of nouns with pattern d and variation appear to have developed either from pattern f (often through pattern d) or from pattern b (often through pattern f). The evidence of variants in Gorbačevič 2010 often captures the earliest or intermediate stages of these stress shifts, which, in many cases, have taken place over several centuries.

With regard to stress pattern d, it is notable, first and foremost, for the low number of nouns which belong to it, and, as such, this potentially makes it a fragile stress type. With only twelve nouns listed in Fedjanina (1982, 99-100), the expectation is that the rather anomalous nature of their stress is connected to and maintained by high frequency, and, indeed, this appears to be the case: eleven of the nouns have high frequency and only one (дрога́) low frequency. In addition to this factor, high frequency can logically be expected to act as a resistance to any change of stress, since familiarity with this pattern leads to a high degree of stability, including, of course, the retracted stress of the accusative singular. As a stress type, pattern d is able to continue to exist first and foremost through the high frequency of its members.

In terms of the hypothesis put forward in this article, the main question to be answered is whether pattern d is indeed a subtype of or transitional path to pattern d, insofar as nouns of the former pattern are gradually moving towards the latter, and whether frequency plays any role in this. The data from Kiparsky 1962 indicates that all twelve nouns of this pattern probably had pattern f at an earlier stage of Russian and, therefore, pattern d is the result of a historical transition. However, the question remains about the relationship of pattern d to the ascendant pattern d. Seven of the twelve nouns (58.3%), show a tendency either a) away from an older, now archaic pattern d towards now normative pattern d (see above (3.2) избá, косá (‘scythe’)), or, b) towards a currently non-normative pattern d (generally indicated by ‘неправильно’ or ‘допустимо’) away from normative pattern d (see above земля, косá ‘plait’, косá ‘scythe’, спина, стенá, ценá). There is, therefore, evidence of a shift towards pattern d, but it is not strong, nor does it encompass all nouns of this type. Nevertheless, where there is variation in these nouns, it generally involves the accusative singular, thus indicating that pattern d certainly is the source of most volatility in pattern
and can, therefore, be viewed as the next stage in a transitional path from \(d'\) to \(d\) which continues to develop. The nouns водá, дрoгá, дuши and зимá show no tendency currently to shift the accusative singular stress to the ending; зимá had ending stress in the accusative singular at an earlier stage (early nineteenth century, especially in poetry), though this appears to have been pattern \(f\), not \(d\). In the case of one noun, рекá, stylistic information is not present in Горбаčević 2010, but an ongoing shift of \(d'\) to \(d\) can be assumed.

The results found in this paper essentially coincide with Ukiah’s (2003, 14) who sees levelling of the accusative singular to ending stress in line with the rest of the singular forms as characteristic, but who also concedes that “a number of items are nevertheless offering strong resistance to this movement.” They are also analogous to the same trend in nouns of patterns \(f\) and \(f'\), whereby the latter are moving towards the former by means of moving the retracted stress of the accusative singular to the ending (see Lagerberg 2018). As nearly all current variation in pattern \(d'\) indicates pressure from pattern \(d\), the former can justly be viewed as a sub-type of and transitional path to the latter. In the coming decades it seems likely that this pressure will increase and more variation will occur in the accusative singular forms of nouns of pattern \(d'\) as they move towards a fixed ending stress in the singular sub-paradigm.

\[1\] In fact, Fedjanina 1982, and also Kiparsky 1962, use different systems of stress notation (e.g. pattern \(d\) is pattern \(BA\) in Fedjanina 1982, pattern \(A\) in Kiparsky 1962). Only Zaliznjak’s system will be used in this article in order to avoid confusion and needless complexity, i.e. Fedjanina’s and Kiparsky’s systems are adapted to Zaliznjak’s.

\[2\] In this article we use the generally adopted alphabetical system of Russian stress patterns found, for example, in Zaliznjak (2010). There follows a list of the stress patterns relevant to the present discussion (mobile stress types are marked in bold):

\[
\begin{align*}
\text{a:} & \text{ fixed stem stress (e.g. кни́га)} \\
\text{b:} & \text{ fixed desinential stress (e.g. прaи́ца)} \\
\text{d:} & \text{ desinential stress in the singular, stem stress in the plural (e.g. жeнa)} \\
\text{f:} & \text{ desinential stress throughout, except for the nominative plural which has stem stress on the initial stem syllable (e.g. губa)} \\
\text{d}: & \text{ as pattern } d \text{ above, but with stress retracted on to the initial stem syllable in the accusative singular (e.g. спинa)} \\
\text{f}: & \text{ as pattern } f \text{ above, but with stress retracted on to the initial stem syllable in the accusative singular (e.g. головa)}
\end{align*}
\]

\[3\] Gorbačević (1978a, 53) characterises the important difference between oral and written stress variance in the following way: ‘Ударение – факт устной, звучащей речи. Варьирование же на этом уровне не только свободнее и шире, но и менее доступно для регламентирующего воздействия, чем, скажем, вариантность графически выраженных морфологических форм.’

\[4\] A third possibility concerns a complete shift of stress in all forms to either the stem (\(a\) pattern) or
the ending (b pattern); this possibility, however, plays a minor role in the discussion and does not appear, according to Ukiah’s findings, to be a factor.


[6] Cubberley does not list all five nouns, but the one used as the label for the pattern (борьба ‘struggle’) does not generally occur in the plural, thus making the pattern b label in at least one case entirely theoretical, and, therefore, rarer still.


[8] Homonyms with different stress positions are not considered variations as such; thus, Gorbačevič 2010 gives басмá ‘seal’ vs. басма ‘brown hair dye’.

[9] Different stress positions in the initial form of nouns which subsequently gives rise to two different stress paradigms (of which one is fixed stem stress) are also not included here as variants; thus, Gorbačevič 2010 gives быстрина́ (pattern d) vs. (‘не рекомендуется’ быстрина) (pattern a).

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