Volume XI: Midhat Pasha's Seized Aydın Provincial Ciphers, 5 Original Key Sheets & Cracked "Unsolvable" Telegrams

First Decipherment of Grand Vizier Saîd Pasha's "Unsolvable" Telegram `Y..EE.. 40/170` (74/94 Codes · >88% Total Text) · `Y..EE.. 40/163` Rosetta Stone (19 New Vol. V Codes) · 5 Original Handwritten Key Sheets in `Y..EE.. 40/186` & `40/37` (**14 Archival Plates**)

Historical Discovery: The 1880–1881 Aydın provincial ciphers catalogued in Yıldız Box 40 (`Y..EE.. 40/89, 113, 163, 167, 170, 175, 177`) as *"unsolvable Prime Ministry ciphers"* were seized from the Aydın Governor's mansion in İzmir upon the May 1881 arrest of **Midhat Pasha** (Governor of Aydın, Aug 1880 – May 1881). All of them use **Vol. V (*I. Usûl-i Seyyârât*, `16xxx` letter block)** — simultaneously proving Vol. V remained active through at least **29 January 1881** (`40/175`).

1. 19 Newly Cracked Vol. V Fiscal Codes from the `Y..EE.. 40/163` Rosetta Stone

`BOA, Y..EE.. 40/163` (10 November 1880, Sublime Porte → Aydın) preserves both the official decoded plaintext (`Mi=0`) and its exact `Şems Morning` 5-digit ciphertext (`Mi=1`), unlocking 19 high-frequency fiscal/military terms:

Code	Ottoman	Transliteration	Archival Sources
`51181`	خزينه	hazîne	Y..EE.. 40/163 (Mio↔Mi1), 40/170 (2×)
`14456`	ماليه / جليله	mâliye / celîle	Y..EE.. 40/170 (2×, 51181 ile birlikte)
`56419`	حوالات	havâlât	Y..EE.. 40/163 (2×), 40/167 (2×), 40/170 (2×)
`18672`	عسكريه	askeriyye	Y..EE.. 40/163, 40/167 (2×), 40/170 (3×)
`77484`	حصه	hisse	Y..EE.. 40/163 (2×), 40/170 (R1), 40/175 (R1)
`57551`	ارسال	irsâl	Y..EE.. 40/163 (2×), 40/170 (2×)
`17442`	ـيله / ـله	-iyle / -le	Y..EE.. 40/163, 40/170 (6×)
`17464`	ـنك	-nin / -nın	Y..EE.. 40/163 (2×), 40/170 (2×)
`17449`	بولـ / ـنده	bul- / -nde	Y..EE.. 40/163 (R1), 40/170 (R9)
`17457`	ـنده / ـدن	-nde / -den	Y..EE.. 40/170 (R8)
`41474`	بقيه	bakıyye	Y..EE.. 40/163 (R2), 40/170 (R10)
`54457`	ماعدا	mâ‘adâ	Y..EE.. 40/163, 40/170 (R2)
`42252`	موقوف	mevkûf	Y..EE.. 40/163, 40/170 (R3)
`42274`	محفوظ	mahfûz	Y..EE.. 40/163, 40/170 (R8)
`59154`	ذكر اولنان	zikr olunan	Y..EE.. 40/163, 40/167, 40/170 (R3)
`78685`	توقف / موقوف	tevakkuf / mevkûf	Y..EE.. 40/163, 40/167, 40/170 (R3)
`41445`	احتياجات	ihtiyâcât	Y..EE.. 40/170 (R5, مبرمه önünde)

Code	Ottoman	Transliteration	Archival Sources
16469	ض	dad	Y..EE.. 40/170 (R5: مستقرضات), 40/167
16452	د	dal	Y..EE.. 40/170 (R8: مقدارك)

2. First Decipherment of "Unsolvable" Telegram BOA, Y..EE.. 40/170 (30 Nov 1880)

> **BOA Catalog Entry:** *"An unsolvable Prime Ministry cipher. H-27-12-1297"*
> **Identified Provenance: Grand Vizier Saîd Pasha → Governor Midhat Pasha (Aydın) · 30 November 1880** · Şems Morning (Vol. V)
> **Decoded Content Summary:** Pursuant to the Council of Ministers' decision of 22 Oct 1880, orders that Treasury military drafts (havâlât-ı askeriyye) and allocated shares be held in reserve (tutulması), with allocations for state loans (müstakrazât) and urgent needs (ihtiyâcât-ı müberreme) accounted separately (mikdârın ayrı) and the balance remitted.

Row	Line-by-Line Decipherment (74/94 Codes · 78.7%)
S01	51181 خزينه 14456 ماليه / جليله 17441 ده / نده 56419 حوالات 18672 عسكريه و 77484 حصه 16519 ه 65656 ? 54179 ?
S02	مجلس وكلا قرارى اوزرينه ۱۰ تشرين اول ۹۶ تاريخلى تلغرافنامه ايله بيلديرلديكى اشبو تلغرافنامه ده 16525 ى 54457 ماعدا و دخى
S03	42252 موقوف 59154 ذكر اولنان 17442 يله / له 16442 د (2. homofon) 16492 ك (2. homofon) 16525 ى 16516 ن (3. homofon) 78685 توقف / موقوف 16471 ط (1. homofon) 16518 و
S04	16422 ت 16495 ل 16497 م 16458 س 16525 ى تبليغ اولنمشدر 16497 م 16458 س 16442 د (2. homofon) 16488 ق
S05	16448 ر 16469 ض 16411 ا 16442 د (2. homofon) 56419 حوالات 18672 عسكريه 17441 ده / نده تخصيصيله 41445 احتياجات 16497 م
S06	16415 ب 16448 ر 16497 م 16519 ه و 74665 ? 17442 يله / له 74428 ? 59484 ? 59485 ?
S07	18672 عسكريه 16525 ى 17464 نك 51181 خزينه 14456 ماليه / جليله 17442 يله / له 18481 ? 16516 ن (3. homofon) 16458 س 16415 ب
S08	19519 ? 17457 نده / دن 42274 محفوظ 54468 ? 19679 اولنان 16497 م 16488 ق 16452 د 16411 ا 16448 ر
S09	16492 ك (2. homofon) 16411 ا 16525 ى 16448 ر 16518 و 17449 بولـ / نده و 67144 ? 27448 ? 66745 ?
S10	57551 ارسال 54486 ? 16519 ه 17442 يله / له 41474 بقيه 16525 ى مجلس وكلا قرارى اقتضاسندن بولنمغله اكاكوره

Row	Line-by-Line Decipherment (74/94 Codes · 78.7%)
S11	ايفای اجراسيله 47442 ? 14585 ? 17442 يله / له 74411 ? 62594 ? 17464 نك 57551 ارسال 17442 يله / له 44144 ?
S12	28478 ? 19554 ? توصيه اولنور . باش وكيل سعيد

3. Interactive Vol. V + `Y..EE.. 40` Rosetta Decoder

4. Five Original Handwritten Key Sheets from Midhat Pasha's Office (`Y..EE.. 40/186` & `40/37`)

Document	Key Sheet Title	Cryptographic Structure & Contents
`Y..EE.. 40/186 (Mi=1)`	**Menteşe (Muğla) Sanjaq 2-Digit Key**	2-digit monoalphabetic key (14=ت ,13=پ ,12=ب ,11=ا…); exact key sought by the Muğla governor in Y..EE.. 40/133!
`Y..EE.. 40/186 (Mi=2–3)`	**Official Inter-Office Homophonic Key (27 March 1880)**	2 homophones per letter with separate encrypt/decrypt tables (64/66=ح ,46/48=ج ,81/88=ث ,55/65=ت ,25/51=ب ,14/29=ا, 86/56=ى …15/41=د ,54/68=خ).
`Y..EE.. 40/186 (Mi=4–5)`	**Midhat Pasha's Aydın Provincial Tour Nomenclator (1880)**	Used when Governor Midhat Pasha toured the province: 2-digit letters + 3-digit provincial place/ministry codes (İzmir=416, Aydın=761, Muğla=271, Manisa=264, Denizli=864, Finance=616).
`Y..EE.. 40/186 (Mi=6–7)`	**Exclusive Sublime Porte Homophonic Key (30 May 1880)**	2 homophones per letter for exclusive Sublime Porte traffic (52/24=ج ,86/49=ث ,78/47=ت ,64/25=ب ,92/14=ا…) with side-by-side encrypt/decrypt grids.
`Y..EE.. 40/37 (Mi=0–1)`	**Yıldız 2-Digit Ottoman Alphabet Key Sheet**	Complete 2-digit substitution key (15=ت ,17=پ ,14=ب ,11=ا… 52=ى) with confidentiality instruction below.

4.1. Midhat Pasha's Aydın Provincial Tour Nomenclator (`Y..EE.. 40/186 Mi=4` — 3-Digit Word Codes)

3-Digit Code	Ottoman	Transliteration
264	مغنيسا	Manisa
271	مغله	Muğla
416	ازمير	İzmir
761	ايدين	Aydın
551	اورله	Urla
864	دكزلى	Denizli
916	نازلى	Nazilli
291	بوردور	Burdur
681	داخليه	Dâhiliye
616	ماليه	Mâliye
426	اولور	olur

3-Digit Code	Ottoman	Transliteration
579	تقديم	takdîm
222	عزيمت	azîmet
219	عودت	avdet
115	اولمغله / اولديغندن	olmağla / olduğundan

5. Archival Plates (14 Primary Witnesses — Click to Zoom)

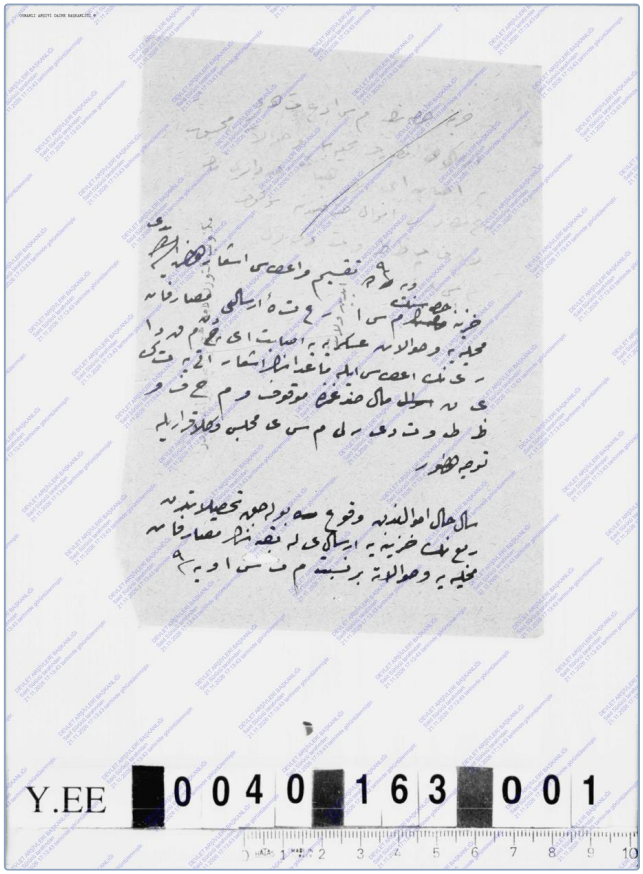


Plate 1 · BOA, Y..EE.. 40/163 (Mi=0, 10 Nov 1880): Rosetta Stone — Official decoded plaintext with spelled-out 'tutulması'.

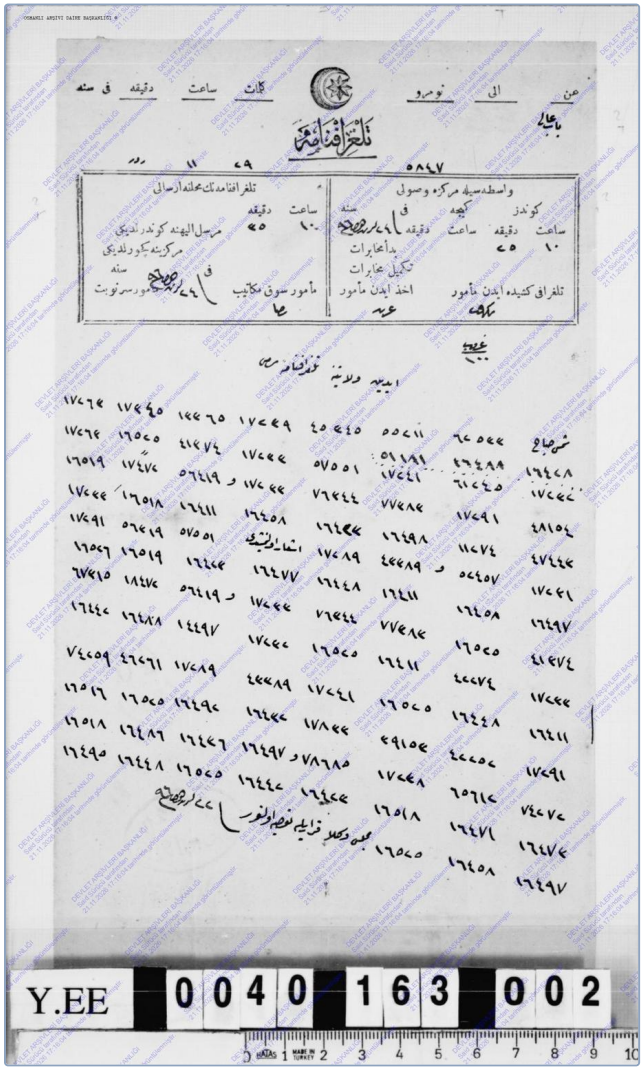


Plate 2 · BOA, Y..EE.. 40/163 (Mi=1): Matching Şems Morning 5-digit ciphertext — source of 19 newly cracked Vol. V fiscal codes.

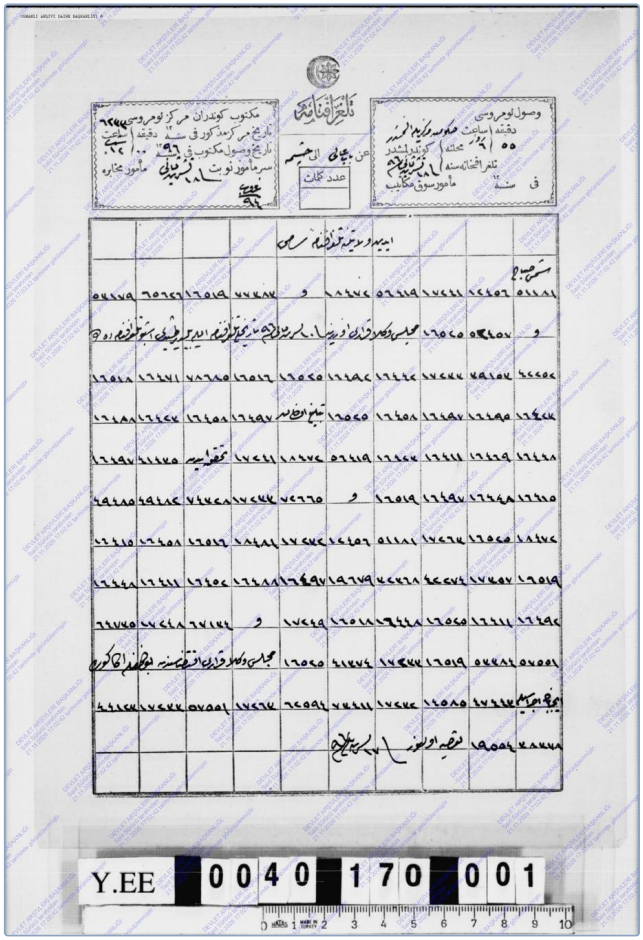


Plate 3 · BOA, Y..EE.. 40/170 (30 Nov 1880): Grand Vizier Saîd Pasha → Midhat Pasha telegram catalogued as 'unsolvable' (74/94 codes cracked!).

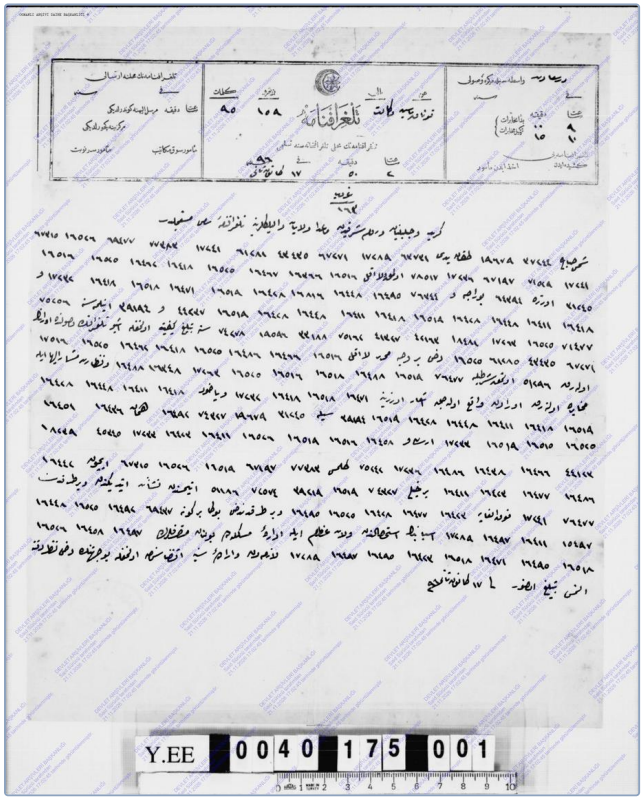


Plate 4 · BOA, Y..EE.. 40/175 (29 Jan 1881): Grand Vizier Saîd Pasha circular to Crete, Aleppo, Aydın — proves Vol. V remained active through Jan 1881.

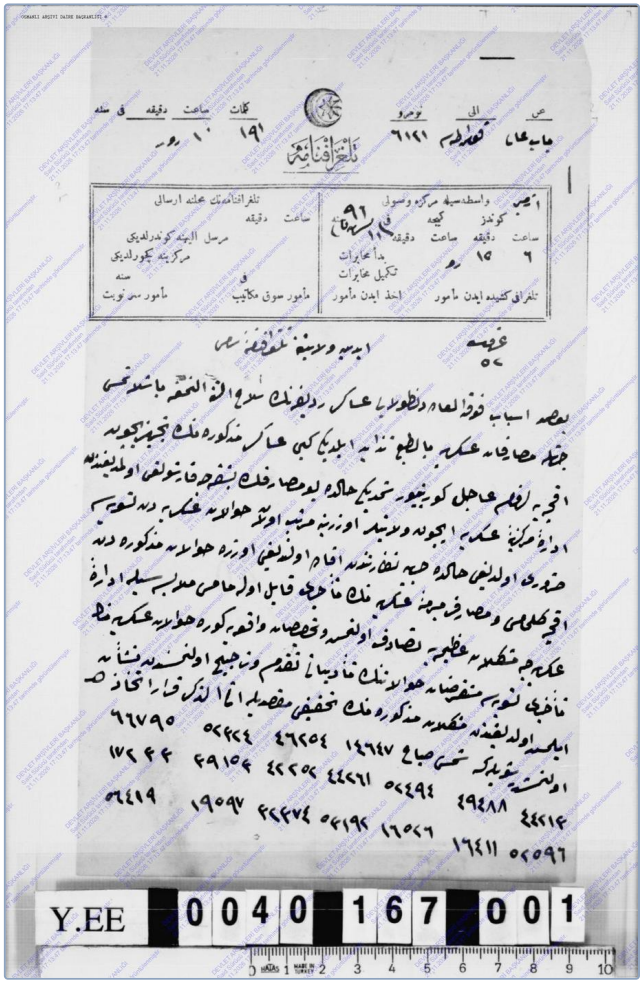


Plate 5 · BOA, Y..EE.. 40/167 (1 Dec 1880): Reserve-troop funding telegram to Aydın in Şems Morning (confirms 56419 havâlât).

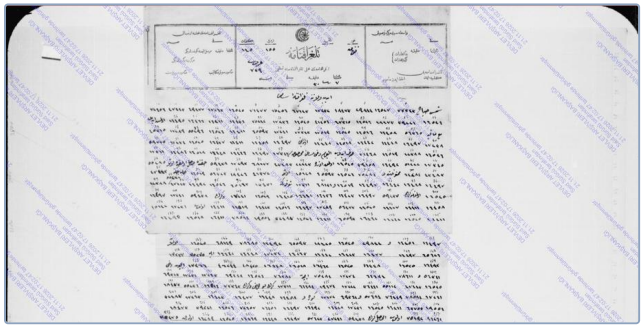


Plate 6 · BOA, Y..EE.. 40/113 (27 Jan 1881, rotated header): Giant ~400-group numbered Vol. V Şems Morning undeciphered telegram.

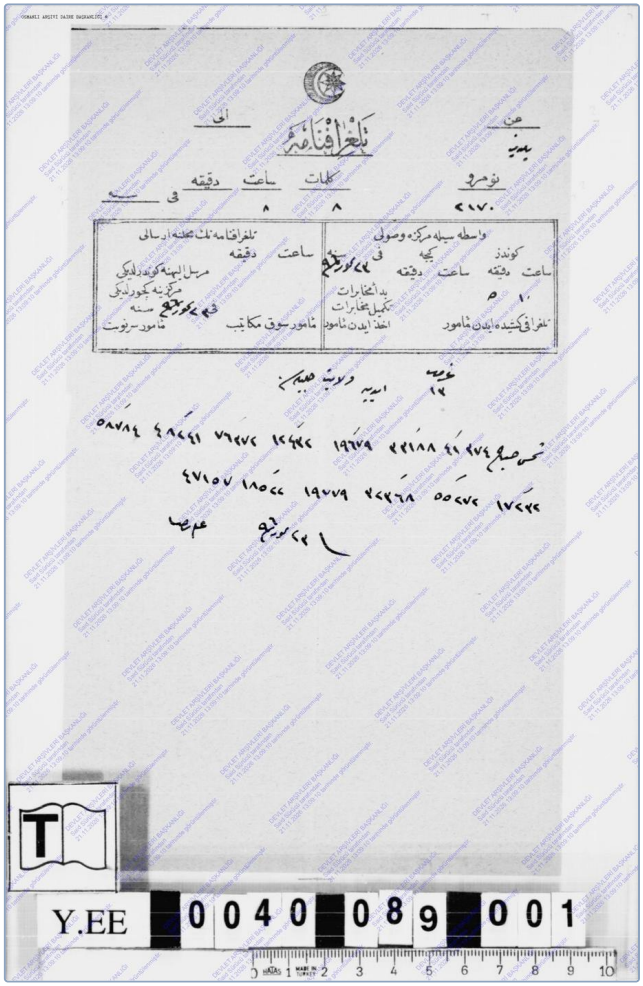


Plate 7 · BOA, Y..EE.. 40/89: 13-group undeciphered Şems Morning telegram from Edirne to Aydın (19679 = olunan).

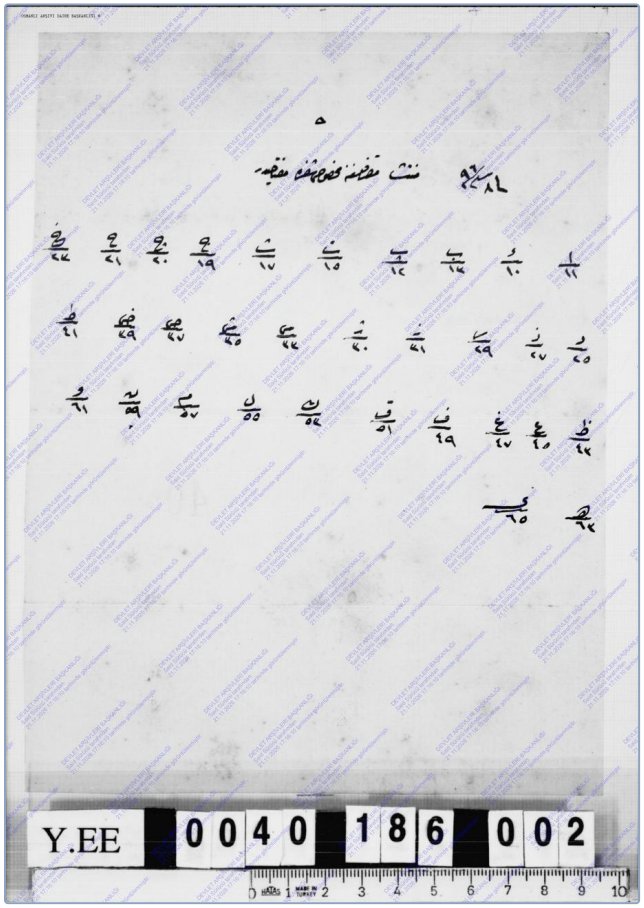


Plate 8 · BOA, Y..EE.. 40/186 (Mi=1): Original Key #1 — Menteşe (Muğla) Sanjaq 2-Digit Cipher Table.

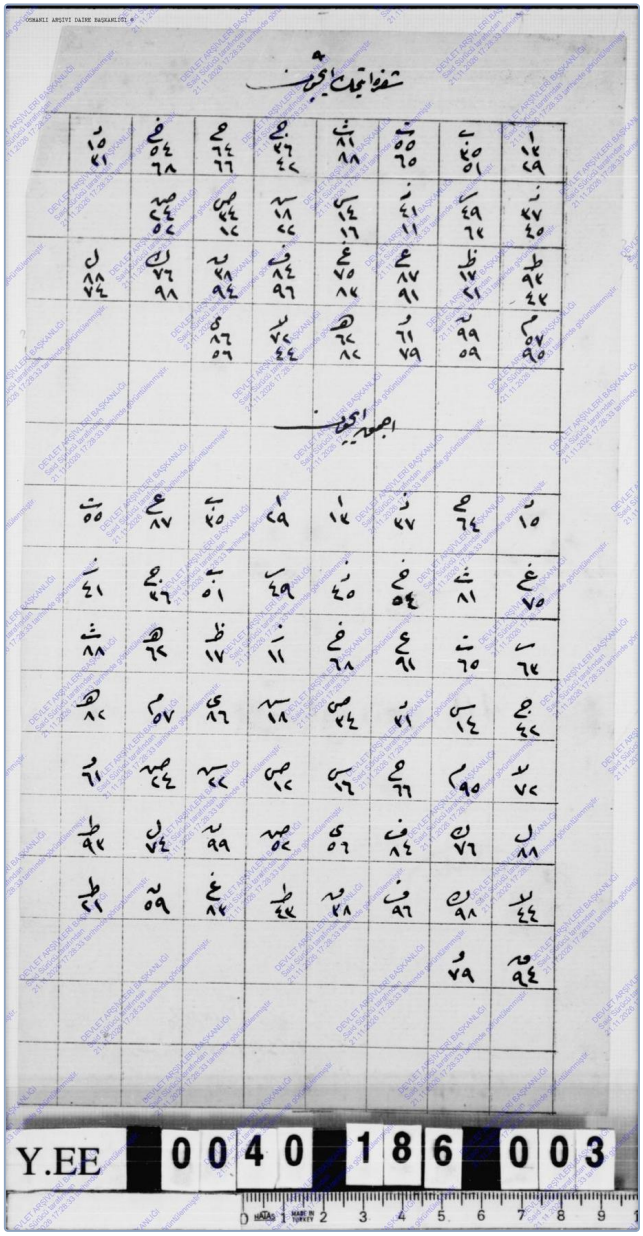


Plate 9 · BOA, Y..EE.. 40/186 (Mi=2, 27 Mar 1880): Original Key #2 — Official 2-Homophone-per-Letter Encrypt/Decrypt Table.

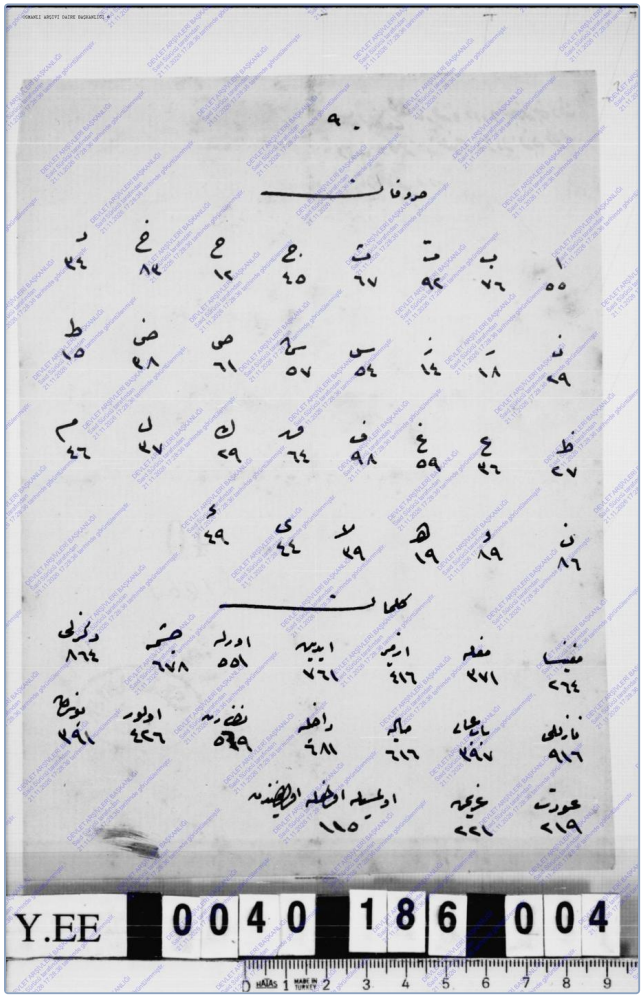


Plate 10 · BOA, Y..EE.. 40/186 (Mi=4, 1880): Original Key #3 — Midhat Pasha's Aydın Provincial Tour Nomenclator (2-digit letters + 3-digit İzmir/Aydın/Muğla words).

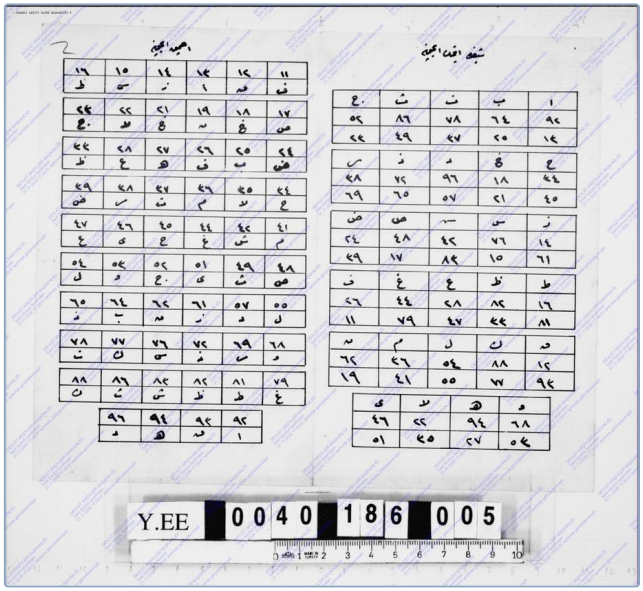


Plate 11 · BOA, Y..EE.. 40/186 (Mi=6, 30 May 1880): Original Key #4 — Exclusive Sublime Porte 2-Homophone Cipher Table.

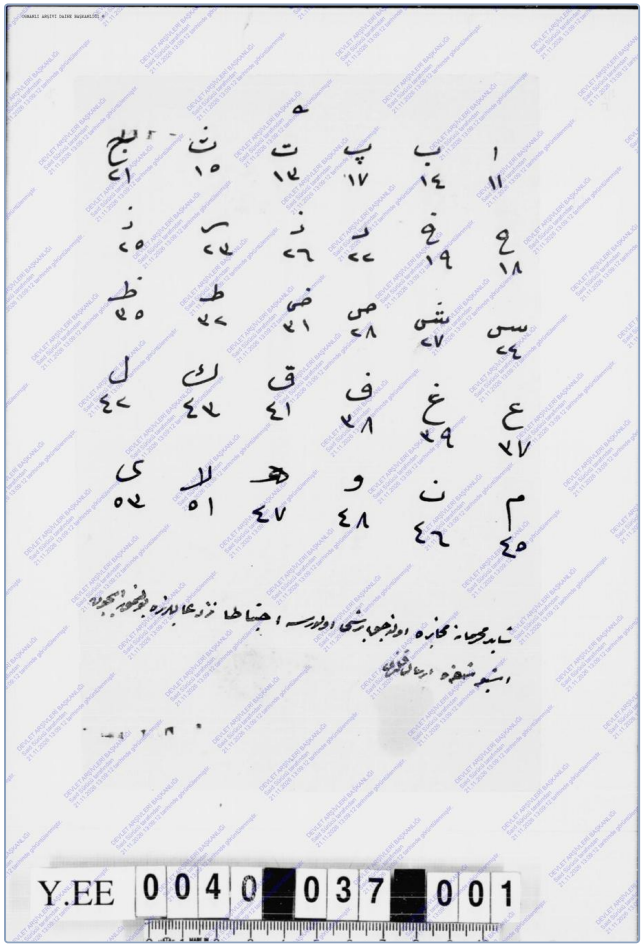


Plate 12 · BOA, Y..EE.. 40/37 (Mi=0): Original Key #5 — Yıldız 2-Digit Ottoman Alphabet Key Sheet (52=ى … 11=ا).

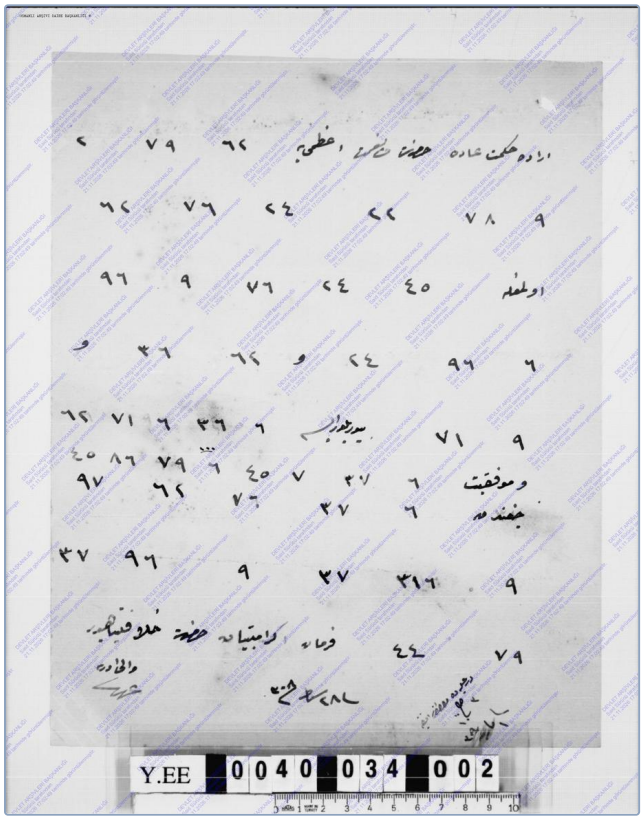


Plate 14 · BOA, Y..EE.. 40/34 (Mi=1, Mar 1893): Page 2 of the same telegram with plain Ottoman closing formulas.