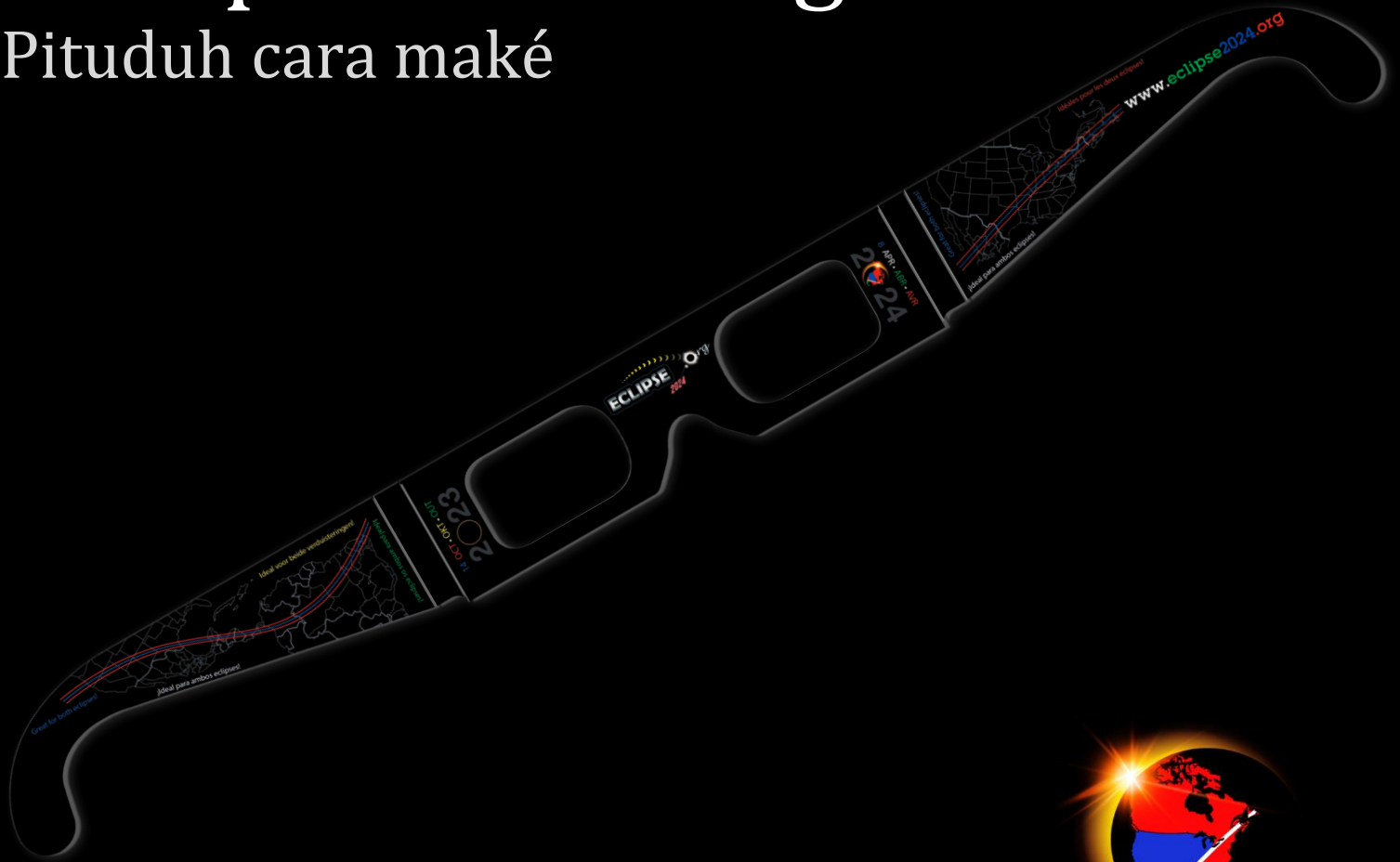


# Kacapanon Samagaha: Pituduh cara maké



*Samagaha Panonpoé Total*

*Senén, 8 April 2024*



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Observing the Sun directly, without the benefit of eye protection provided by the Eclipse Glasses, will likely result in serious personal injury, up to and including permanent eye damage and blindness. When these Instructions for Use are followed completely and precisely, the undamaged and unmodified Eclipse Glasses have been proven to be safe and effective in allowing direct, short-term viewing of the Sun. If these Instructions for Use are not followed, or if damaged or modified Eclipse Glasses are used, permanent eye injury could result.

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- (b) you understand and accept the risks associated with improper use of the Eclipse Glasses;
- (c) you accept full responsibility for, and assume all risks associated with, the act of viewing the Sun, with or without the use of the Eclipse Glasses; and
- (d) the Eclipse Glasses are fragile, and any damage or modification will render them immediately and permanently unusable for their intended purpose.

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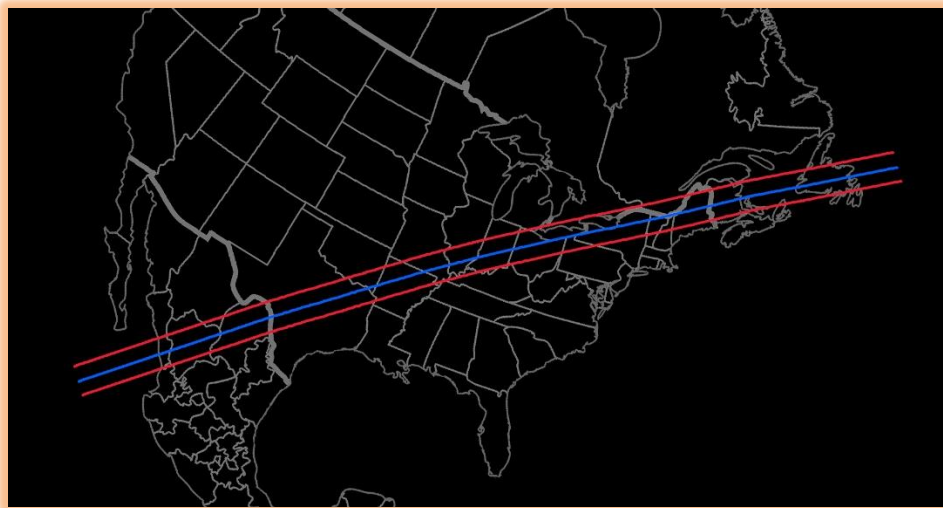
## **SAMAGAHA PANONPOÉ TOTAL – 8 April 2024**

### **Wilujeng sumping di Amerika Utara!**

Simkuring saparakanca ngarasa dipihormat lantaran anjeun parantos milih sumpingka nagara simkuring pikeun ngalaman samagaha panonpoé total, sarta Simkuring harep anjeun sadaya tiasa ningali kajadian istimewa ieu tur aman!

*Pituduh ieu disadiakeun kana basa Sunda pikeun kanyamanan anjeun sadaya. Vérsi basa Inggris tina ieu pituduh, arahan, jeung sanggahan (tina “instruksi”), mangrupa sumber informasi pikeun arahan maké Kacapanon Samagaha nu bener tur merenah supados tiasa ningali panonpoé sacara langsung. Intruksi lengkepna nu lengkepna aya dina <https://tinyurl.com/2024Instructions>. sarta anjeun kudu maca, mkaharti, jeung nurutkeun eta pituduh pikeun ngaggungkeun Kacapanon Samagaha. **Kasalahan nuturkeun pituduh bakal ngakibatkeun cidera panon.***

Para astronom nyebatkeun yén samagaha tanggal 8 April 2024 téh minangka “samagaha total”, mung supados anjeun tiasa ningali sautuhna, anjeun kudu aya dina galur darat nu heureutna ngaliwatan Amerika Utara (Jalur Totalitas). Saupama anjeun henteu dina galur ieu, anjeun ngan bakal ningali samagaha parsial (sawaréh)! Mangka, penting pisan pikeun mikanyaho naha anjeun téh aya dina galur totalitas atawa henteu.



*Galur Totalitas Samagaha*

## **PITUDUH RINGKES**

## **PITUDUH LENGKEP**

Istilah “Kacapanon Samagaha”, nu dipaké dina ieu dokumen, maksudna pikeun ngawakilan “Eclipse Glasses” anu dimaksud dina sanggahan kaca kahiji, sarta nu dituduhkeun kana kaca séjén, dina jero ieu dokumén.

Dipakéna Kacapanon Samagaha ku anjeun pikeun ningali panonpoé mangrupa perjangjian hukum. Anjeun kudu bener-bener nuturkeun kabéh pituduh jeung arahan anu aya dina ieu instruksi kalawan bener jeung lengkep pikeun ngagunakeun Kacapanon Samagaha unggal ningali panonpoé. Mun anjeun teu ngarti kana instruksina, teu bisa nuturkeun kalawan lengkep jeung bener, atawa anjeun teu satuju kana sarat-saratna, mangka anjeun teu disarankeun ningali panonpoé iraha waé jeung maké cara naon waé.

## PITUDUH RINGKES MAKÉ KACAPANON SAMAGAHA

Pituduh ieu diringkes tina [instruksi lengkep kanabasa Sunda](#), anu kudu dibaca, dilenyepan jeung diturutan sagemblengna ku Anjeun, pikeun ngagunakeun kaca panonpoé keur ningali samagaha.

- 1) Tingal lokasi anjeun dina [eclipse2024.org/find-times](https://eclipse2024.org/find-times), naha lokasi anjeun bakal ngalaman samagaha total atawa henteu, sarta kamungkinan waktu kontak pikeun fase parsial jeung (lamun bisa) fase total di éta tempat.
- 2) Samagaha total téh mangrupa hiji kajadian anu bener-bener spéktaulér, anjeun ngan bisa ngalaman samagaha sautuhna lamun anjeun aya dina jero “galur samagaha total” nu legana ngan ukur 200km. Lamun samagaha teu mungkin bisa sautuhna katingali ti tempat nu direncanakeun ku anjeun, anjeun disarankeun pisan pindah ka posisi nu aya dina jalur samagaha total!
- 3) Pikeun maké Kacapanon Samagahapikeun ningali samagaha, cepeng lénsa Kacapanon Samagaha na luhureun panon anjeun sangkan panon anjeun bener-bener kalindung pas ningali panonpoé sacara langsung.
- 4) Iraha ngagunakeun Kacapanon Samagaha pikeun ningali panonpoé:
  - a. Lamun samagaha total teu nangtu bakal katingal di lokasi anjeun, mangka terus tingali baé unggal waktu maké Kacapanon Samagaha. **ANJEUN BAKAL MEUNANGRÉSICO KARUSAKAN PANON SACARA PERMANÉNLAMUN TEU MAKÉ PALINDUNG PANON ANU BENER WAKTU NINGALI PANONPOÉ LANGSUNG!**
  - b. Lamun samagaha total bakal tangtu katingal di lokasi anjeun, mangka anjeun KUDU ningali panonpoé maké Kaca Panonpoé di unggal bagian nu kacaangan ku panonpoé (sanajan ngan saukur saeutik bagian nu katingalina). **ANJEUN BOGA RÉSIKO KARUSAKAN PANON PERMANÉN LAMUN ANJEUN TEU NUTURKEUN PITUDUH IEU!**
    - i. Sanajan kitu, anjeun bisa ningali langsung kana samagaha total tanpa make Kacapanon Samagaha pas lebah totalitasna wungkul, nalika bagian nu caang tina buleudan panonpoé teu katémbong.
    - ii. Lamun anjeun nyobaan maké Kacapanon Samagaha pikeun ningali panonpoé salila samagaha total, anjeun moal bisa ningali nanaon!
    - iii. Anjeun KUDU maké deui Kacapanon Samagaha lamun katotalanna geus bérés sarta bagian nu caang tina buleudan panonpoé tos katémbong deui.
- 5) Cindekna,

**DINA UNGGAL AYA BAGIAN BULEUDAN CAANG PANONPOÉ  
NU KATINGALI, ANJEUN KUDU MAKÉ KACAPANON  
SAMAGAHA PIKEUN NINGALI PANONPOÉ!**

## PITUDUH LENGKEP MAKÉ KACAPANON SAMAGAHA

Kahiji, aya sababaraha istilah anu kudu dipikaharti ku anjeun!

Pikeun unggal samagaha, jeung unggal tempat di bumi, aya sababaraha ngaran anu dilarapkeun kana waktu pikeun kajadian nu penting. Ieu téh nu dipikawanoh minangka:

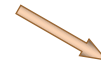
<i>Ngaran Kajadian</i>	<i>Keterangan Kajadian</i>	<i>Nu Katingali (pikeun Samagaha Total)</i>	<i>Nu Katingali (pikeun Samagaha parsial)</i>
<b>C1</b>	Awal fase parsial		
<b>C2</b>	Awal tina totalitas		* Henteu kajadian! *
<b>Tengah-tengah Samagaha</b>	Titik Tengah Samagaha		
<b>C3</b>	Ahir tina totalitas		* Henteu kajadian! *
<b>C4</b>	Akhir tina fase parsial		

## 1) PITUDUH UMUM PIKEUN MAKÉ KACAPANON SAMAGAHA



- 1) [lamun bisa] Buka bungkus Kacapanon Samagaha kalawan ati-ati.
- 2) Simpen Kacapanon Samagaha dina wadahna lamun teu dipaké.
- 3) Pariksa Kacapanon Samagaha unggal rék dipaké; lamun film lénsana ruksak atawa karijut dina bagian mana waé, mangka Kacapanon Samagaha kudu diteukteuk jeung diancurkeun, [tuluy ménta digantian ku nu weuteuh](#).
- 4) Lamun film lénsana ruksak kumaha baé carana, ulah maké Kacapanon Samagaha éta pikeun ningali panonpoé iraha waé.
- 5) Ulah ngaleupaskeun bagian film lénsa tina Kacapanon Samagaha, jeung ulah maké bagian film lénsa anu geus dileupaskeun pikeun ningali panonpoé ku cara naon baé.
- 6) Lénsa Kacapanon Samagaha anu merenah kana tempatna jeung teu ruksak bakal nahan level bahayatina cahaya nu katingali sapertos bahaya sinar UV jeung cahaya panonpoé nu séjénna. Maké Kacapanon Samagaha téh bakal bener-bener aman, nurutkeun kana panungtun nu disadiakeun dina ieu pituduh, pikeun ningali panonpoé iraha baé ogé. Euweuh “cahaya samagaha” husus anu ngakibatkeun ningali panonpoé téh bakal leuwih atawa kurang bahaya salila samagaha.
- 7) **Anjeun kudu maké Kacapanon Samagaha, ku cara anu dijelaskeun di dieu, pikeun ningali panonpoé kalawan aman dina waktu IRAHA WAÉ salila bagian buleudan nu caang tina panonpoé katingali. Ieu dilakukeun dina unggal waktu kontak samagaha (nyaéta, “C2” jeung “C3” saperti nu dijelaskeun di luhur) nu geus direkam tina sumber mana waé.**
- 8) Ulah maké Kacapanon Samagaha bareng jeung téléskop, toropong, kaméra, lénsa, eunteung, alat optik séjénna, atawa alat jeung objék nu bisa mantulkeun cahaya (“Pakakas Optik”).
- 9) Ulah sakali-kali ngarahkeun Pakakas Optik nu kumaha waé kana panonpoé, jeung ulah pernah langsung ningali gambar panonpoé maké Pakakas Optik naon waé nu diarahkeun kana panonpoé, atawa kumaha waé carana nu bisa ngumpulkeun, museurkeun, atawa ngarahkeun cahaya panonpoé.
- 10) Kacapanon Samagaha teu meunang nepi ka dipaké ku sato, atawa ku saha waé anu teu waras, teu bisa maca, ngarti jeung nyumponan pasaratan sangkan Kacapanon Samagaha dipaké kalawan aman, atawa sacara resmi narima tanggung jawab tina résiko nu dilakukeunna.
- 11) Pikeun ngagunakeun Kacapanon Samagaha:
 

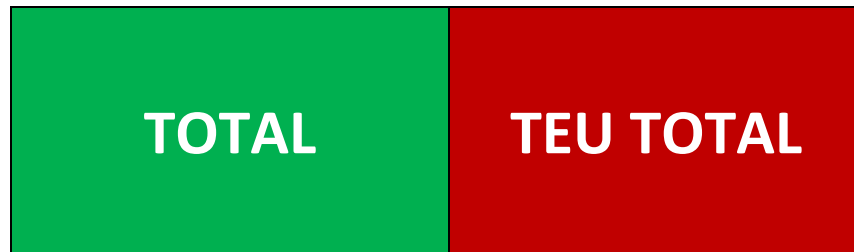
Cepeng Kacapanon Samagaha sing merenah antara panon jeung panonpoé, jeung tingali panonpoé maké Kacapanon Samagaha anu lénsana teu ruksak, tuluy usahakeun sangkan lénsa Kacapanon Samagaha tuluy aya di antara panon jeung panonpoé. Lamun Kacapanon Samagahana wangun kacapanon karton, anjeun bisa nilepkeun kartonna saperti biasana dilakukeun dina kacapanon nu biasa. Ulah pernah ningali langsung kana panonpoé lamun henteu dina waktu samagaha total (nyaéta, salila waktu antara C2 jeung C3 nu bisa anjeung perhatikeun dina tabél di handap, lamun hal ieu bisa dilakukeun di lokasi anjeun ningali), iwal anjeun ningali langsung ngaliwatan lénsa Kacapanon Samagaha nu teu ruksak.
- 12) Ulah maké matéri atawa banda, iwal ti lénsa Kacapanon Samagaha anu dipasangkeun dina tempat asalna saperti waktu dijieunna, pikeun ngalindung panon waktu nyobaan ningali panonpoé.
- 13) Lamun anjeun boga hal nu rék ditanyakeun ngeunaan ieu pituduh, mangga kontak [Eclipse2024.org](https://tinyurl.com/glasses-questions) di <https://tinyurl.com/glasses-questions>.



## 2) DIAJAR NANGTUKEUN WAKTU HUSUS DINA SAMAGAHA DI LOKASI ANJEUN

Dumasar informasi nu aya dina [eclipse2024.org/find-times](https://eclipse2024.org/find-times) pikeun lokasi anjeun, lengkepan ieu katerangan:

*Di lokasi kuring, samagaha téh:*



*(jirangan hiji)*

Lamun samagaha **TOTAL** di lokasi anjeun, tuturkeun pituduh nu aya dina

**“SAMAGAHA  
TOTAL  
DI LOKASI KURING”**

[bagian di handap:](#)

Lamun samagaha **HENTEU TOTAL** di lokasi Anjen, tuturkeun pituduh anu aya dina










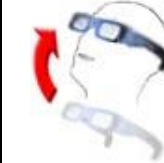




**“SAMAGAHA  
HENTEU TOTAL  
DI LOKASI KURING”**

[bagian di handap:](#)

## \*\* SAMAGAHA **TOTAL** DI LOKASI KURING \*\*

Anjeun aya dina galur samagaha total, jeung bakal ngalaman kajadian nu langka jeung luar biasa éndah! Penting pisan sangkan anjeun bisa nangtukeun iraha samagaha total kajadian di lokasi anjeun. Anjeun bakal bisa ngalakukeun hal ieu ku cara nuturkeun kana waktu anu geus dicatet di handap ieu, jeung kulantaran moal aya bagian anu caang dina buleudan panonpoé nu katempo salila totalitas.

- 1) Dumasar kana informasi nu disadiakeun dina [eclipse2024.org/find-times](https://eclipse2024.org/find-times) pikeun lokasi anjeun, tuliskeun kamungkinan waktu pikeun unggal fase samagaha dina daptar di handap ieu (pastikeun [atur waktu](#) kana zona waktu anjeun!)

<b>Saméméh C1</b>	* Euweuh samagaha *				Anjeun <b>KUDU</b> maké Kacapanon Samagaha
<b>C1</b>	waktu mimiti fase parsial:				Anjeun <b>KUDU</b> maké Kacapanon Samagaha
<b>C2</b>	waktu mimiti fase total:				<b>Sanggeus C2</b> , anjeun bisa ningali ku panon langsung
<b>Tengah-tengah samagaha</b>	waktu:				<b>Anjeun bisa ningali ku panon langsung</b>
<b>C3</b>	waktu anggeusna fase total:				Anjeun <b>KUDU</b> maké deui Kacapanon Samagaha
<b>C4</b>	waktu anggeusna fase parsial:				Anjeun <b>KUDU</b> maké Kacapanon Samagaha
<b>Sanggeus C4</b>	* Euweuh samagaha *				Anjeun <b>KUDU</b> maké Kacapanon Samagaha

- 2) Sanajan anjeun aya dina galur totalitas, anjeun angger KUDU maké Kacapanon Samagaha pikeun ningali panonpoé salila waktu saméméh C2 atawa sanggeus C3, dina waktu samagaha teu total.



- 3) Anjeun bisa langsung ningali panonpoé langsung (tanpa maké Kacapanon Samagaha) NGAN SAUKUR:
  - a. lamun samagaha total di lokasi anjeun (anjeun aya “dina galur”), JEUNG
  - b. salila waktu totalitas (kira-kira salila waktu dina période ti C2 kana C3 pikeun lokasi anjeun nu geus dicatet di luhur), JEUNG
  - c. **salila buleudan cahaya Panonpoé SAUTUHNA katutupan ku Bulan.**

Waktu nu sabenerna totalitas bakal jauh bédana gumantung kana lokasi anjeun nu sabenerna, ku kituna anjeun kudu geus ngaidéntifikasi jeung nyatet kira-kira waktu ti saméméhna. Waktu anu dicatet ku anjeun di luhur ngan dikira-kira!

- 4) Sakali deui, leupas tina waktu anu geus dicatet dina daptar di luhur, atawa dikumpulkeun tina sumber nu séjén, **anjeun salawasna kudu ningali Panonpoé maké Kacapanon Samagaha IRAHA WAÉ DI BAGIAN MANA WAÉ salila buleudan cahaya panonpoé katingali.**
- 5) Panungtun ieu dibarengan ku katerangan gambar tambahan minangka bantuan sangkan leuwih paham.

---

*Anjeun kudu maca, paham, jeung nurut kana unggelan ieu:*











**KURING KUDU NUTURKEUN **KABÉH** PANUNGTUN PIKEUN MAKÉ KACAPANON SAMAGAHA SANGKAN AMAN MAKÉNA.**

**LAMUN AYA BAGIAN BULEUDAN PANONPOÉ KATÉMBONG, KURING **KUDU** MAKÉ KACAPANON SAMAGAHA WAKTU NINGALI PANONPOÉ.**

## **\*\* SAMAGAHA HENTEU TOTAL DI LOKASI KURING \*\***

Anjeun henteu dina galur samagaha total, jeung Anjeun moal ngalaman kaéndahan samagaha total. (Simkuring sapa-rakanca nyarankeun anjeun ngarobah posisi anjeun kana galur totalitas pikeun babagi pangalaman anu luar biasa ieu!)

- 1) Dumasar kana informasi nu disadiakeun dina [eclipse2024.org/find-times](http://eclipse2024.org/find-times) pikeun lokasi anjeun, tuliskeun kamungkinan waktu pikeun unggal fase samagaha dina daptar di handap ieu (pastikeun [atur waktu](#) kana zona waktu anjeun!)

<b>Saméméh C1</b>	* Euweuh samagaha *				Anjeun <b>KUDU</b> maké Kacapanon Samagaha
<b>C1</b>	waktu fase parsial:				Anjeun <b>KUDU</b> maké Kacapanon Samagaha
<b>Tengah-tengah samagaha</b>	waktu:				Anjeun <b>KUDU</b> maké Kacapanon Samagaha
<b>C4</b>	Waktu anggeusna fase parsial:				Anjeun <b>KUDU</b> maké Kacapanon Samagaha
<b>Sanggeus C4</b>	* Euweuh samagaha *				Anjeun <b>KUDU</b> maké Kacapanon Samagaha

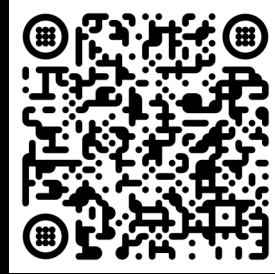
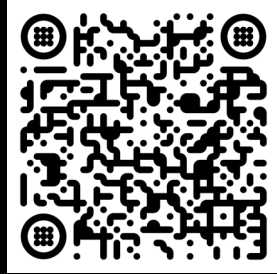
(Perhatiken yéndina daptar euweuh waktu C2 jeung C3, lantaran di lokasi anjeun samagahana henteu total!)

- 2) Lantaran di tempat anjeun henteu samagaha total, anjeun salawasna KUDU maké Kacapanon Samagaha pikeun ningali Panonpoé. Sakali deui, simkuring sapa-rakanca nyarankeun anjeun pikeun nyaba ka tempat nu diliwatan galur totalitas. Pastikeun anjeun mawa Kacapanon Samagaha, sangkan anjeun bisa ningali fase parsial samagaha kalawan aman!
- 3) Panungtun ieu dibarengan ku katerangan gambar tambahan minangka bantuan sangkan leuwih paham.

**Anjeun kudu maca, paham, jeung nurut kana unggelan ieu:**

**KURING KUDU NUTURKEUN **KABÉH** PANUNGTUN PIKEUN MAKÉ KACAPANON SAMAGAHA, SANGKAN AMAN MAKÉNA.**

**KURING **KUDU SALAWASNA** MAKÉ KACAPANON SAMAGAHA WAKTU NINGALI PANONPOÉ.**



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Basa Sunda

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